

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, understand and follow all the warnings contained in this Operator's Manual and the labels on your ATV.

Keep this Operator's Manual with your ATV at all times.
FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS
MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH.

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



**The Safety Alert Symbol means
ATTENTION! BE ALERT! YOUR SAFETY
IS INVOLVED.**

! ATTENTION

**Failure to follow WARNING instructions
could result in severe injury or death to
the ATV operator, a bystander, or a per-
son inspecting or repairing the ATV.**

! CAUTION

**A CAUTION indicates special precau-
tions that must be taken to avoid damage
to the ATV.**

■ NOTE

**A NOTE provides key information to
make procedures easier or more clear.**

Introduction

Foreword

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

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.

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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 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.

AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE.

- 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 be sure there are no obstacles or people behind you when you operate in reverse. When it is safe to proceed in reverse, go slowly. Avoid turning at sharp angles in reverse.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- Never improperly install or improperly use accessories 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.

Rider Training Course

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 manoeuvres such as turning and driving on hills and over obstacles, if you fail to take proper precautions.

TO AVOID DEATH OR SEVERE PERSONAL INJURY:

- 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.
- Never operate an ATV without an approved motorcycle helmet, eye protection, boots, gloves, long pants and a long-sleeved shirt or jacket.
- 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.

Hangtags & Warning Information

This Arctic Cat ATV comes with a hangtag and 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 labels.

ACHTUNG – ATTENTION – ATTENZIONE



DIESE ANWEISUNG DARF NUR DURCH DEN KUNDEN ENTFERNT WERDEN!

Gemäß Richtlinie 93/14 EWG wird die Hauptbremse über das Fußpedal betätigt. Zusätzlich kann die Hauptbremse über den linken Handbremshebel betätigt werden. Der Handbremshebel rechts betätigt nur die Feststell- und Notbremse und darf nicht als Betriebsbremse verwendet werden.

- ! WICHTIG !**
Um die volle Bremswirkung zu erlangen, muss die Bremse eingeregelt werden. Dazu gehen Sie bitte folgendermaßen vor:
- 1.) Wählen Sie eine Strecke aus, die lange genug ist, um Ihr ATV sicher mit 30 km/h zu fahren.
 - 2.) Beschleunigen Sie, bis eine Geschwindigkeit von 30 km/h erreicht wird. Drücken Sie den Fußbremspedal, bis die Geschwindigkeit auf 0-5 km/h gesunken ist.
 - 3.) Wiederholen Sie diesen Vorgang ca. 20 Mal, bis die Bremse einregelt ist.

Die Spiegel befinden sich in der Aufhängungsbox hinten am Fahrzeug. Achten Sie bei der Montage darauf, den Spiegel nicht zu stark zu belasten, um das Gewicht der Aufhängungsbox zu vermeiden. (Sonst besteht die Gefahr den Spiegelhalter zu beschädigen!)



THESE INSTRUCTIONS MAY BE REMOVED ONLY BY THE CUSTOMER!

In accordance with Directive 93/14 EEC, the main brake is operated via the foot pedal. Additionally, the main brake may be operated via the left hand brake lever. The right hand brake lever only operates the parking and emergency brake and may not be used as service brake.

- ! IMPORTANT !**
For perfect brake efficiency you have to burnish the brake pads. To do so, please follow the instructions below:
- 1.) Choose an area sufficiently large to safely accelerate your ATV to 30 km/h.
 - 2.) Accelerate to 30 km/h, then compress brake lever to decelerate to 0-5 km/h.
 - 3.) Repeat this procedure approx. 20 times until brakes are heated up.

The mirrors are to be found in an extra case in the rear of the vehicle. When mounting the mirrors, please do not screw them in completely to the stop, but fix them first with the counter-end. (Otherwise you risk to seriously damage the support!)



ACHTUNG – ATTENTION – ATTENZIONE



CES INSTRUCTIONS PEUVENT ETRE ENLEVEES SEULEMENT PAR LE CLIENT!

Conformément à la directive 93/14 CEE, le frein principal est actionné par le pédale. De plus, le frein principal peut être actionné par le levier de frein à main à gauche. Le levier du frein à main à droite n'actionne que le frein d'urgence et de stationnement et ne peut pas être utilisé comme frein de service.

- ! AVERTISSEMENT !**
Pour un freinage parfait, les garnitures du frein doivent être rodées. Pour effectuer le rodage, procédez de la manière suivante:
- 1.) Choisissez un trajet qui est assez long pour pouvoir conduire votre ATV à 30 km/h.
 - 2.) Accélérez jusqu'à atteindre une vitesse de 30 km/h. Appuyez sur la pédale de frein, jusqu'à ce que la vitesse soit réduite à 0-5 km/h.
 - 3.) Répétez cette procédure environ 20 fois jusqu'à ce que le frein soit chauffé.

Les rétroviseurs se trouvent dans une cassette sur l'arrière du véhicule. Faites attention à ne pas visser à fond les rétroviseurs, mais de les fixer d'abord avec le contre-écrou (au cas contraire vous risquez d'endommager les supports!)



QUESTE ISTRUZIONI POSSONO ESSERE TOLTE DAL VEICOLO SOLO DAL CLIENTE!

Conferentemente alla direttiva 93/14 CEE, il freno principale è azionato dal pedale. Inoltre, il freno principale può essere azionato dalla leva del freno a mano a sinistra. La leva del freno a mano a destra aziona soltanto il freno d'emergenza e di stazionamento e non può essere utilizzato come freno di servizio.

- ! AVVERTENZA !**
Per una frenatura perfetta i dischi del freno vanno rodati. Per eseguire il rodaggio, procedete della maniera seguente:
- 1.) Scegliete un percorso che sia abbastanza lungo per poter guidare il vostro ATV a 30 km/h.
 - 2.) Accelerate fino a raggiungere una velocità di 30 km/h. Schiacciate il pedale del freno per abbassare la velocità a 0-5 km/h.
 - 3.) Ripetete il punto 2 circa 20 volte finché il freno sia riscaldato.

I retrovisori si trovano in un'apposita cassetta sul dietro del veicolo. State attenti a non avvitare i specchietti fino in fondo, ma a fissarli prima con il controdado (in caso contrario rischiate di danneggiare i supporti!)



Warning Labels

A

WARNING

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

ALWAYS maintain proper tire pressure as shown.

NEVER exceed the vehicle load capacity of 400 lbs. (182 kg.)

COLD TIRE PRESSURE	
LOAD	UP TO 400 lbs. (182 kg)
FRONT	4.0 psi (0.28 kg/cm ²)
REAR	3.5 psi (0.25 kg/cm ²)

1411-109

E

WARNING

Exceeding vehicle's towing limit could cause an accident. Reduce speed when towing a trailer. Read operator's manual for details.

MAXIMUM TONGUE WEIGHT:
35 lbs. (16 kg)

MAXIMUM TOWING CAPACITY:
500 lbs. (227 kg)

1411-105

F

WARNING

NEVER carry a passenger on this carrier.

MAXIMUM LOAD: 50lb (23kg) evenly distributed

1411-201

H

WARNING

NEVER carry a passenger on this carrier.

MAXIMUM LOAD: 100lb (45kg) evenly distributed

0411-570

C

WARNING

Improper ATV use can result in SEVERE INJURY or DEATH



ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR



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:

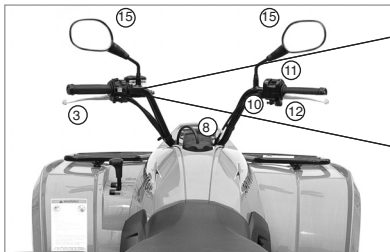
- use proper riding techniques to avoid ATV overturns on hills and rough terrain and in turns
- avoid paved surfaces - pavement may seriously affect handling and control

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

0411-05



Location of parts and controls (400 2x4 & 400 4x4)



1. Battery
2. Headlights
3. Hand Brake Lever
4. Fuel Valve
5. Seat Lock Lever
6. Brake Pedal
7. Brake Lever Lock
8. Key Switch
9. Shift Lever
10. Throttle Limiter
11. Drive Selector (model 4x4)
12. Throttle Lever
13. Engine Starter Button
14. Taillight/Brakelight
15. Mirror
16. Operator's Manual Location
17. Headlight LI/LO/Hi Switch
18. Tool Kit
19. Horn
20. Turn Light Switch
21. Hazard Warning Switch

Warnings

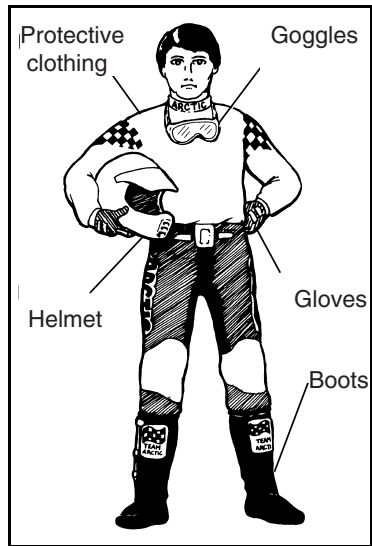
! WARNINGS

POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Operating without an approved helmet increases your chances of a severe head injury or death in the event of an accident.
Operating without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.
Operating without protective clothing increases your chances of severe injury in the event of an accident.



ATV-0004

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

Warnings

! WARNINGS

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.

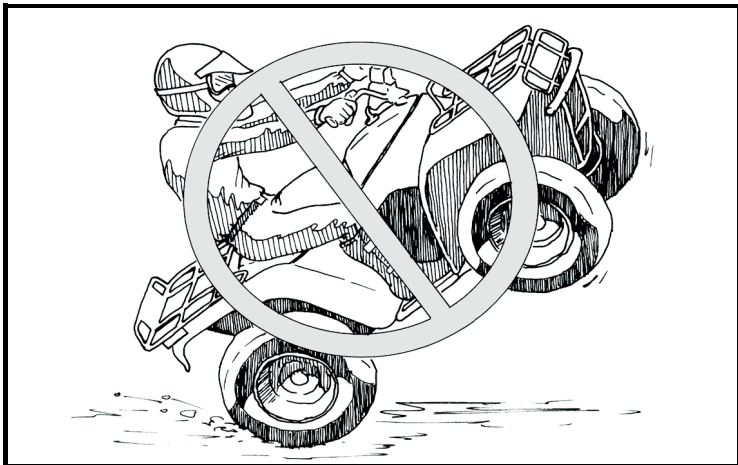
HOW TO AVOID THE HAZARD

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

WARNINGS

Warnings

! WARNINGS



ATV-0005

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.

Warnings

! WARNINGS

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.

WARNINGS

! WARNINGS

POTENTIAL HAZARD

Removing hands from handlebars or feet from footrests during operation.

WHAT CAN HAPPEN

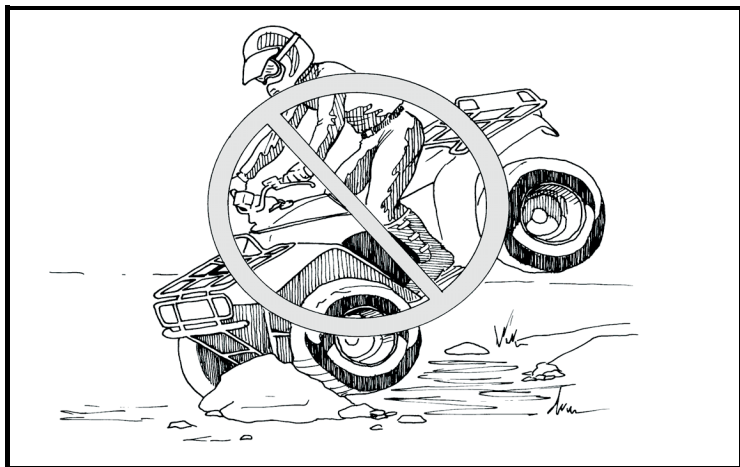
Removing even one hand or foot can reduce your ability to control the ATV or could cause you to lose your balance and fall off the ATV. If you remove a foot from a footrest, your foot or leg may come into contact with the wheels, which could injure you or cause an accident.

HOW TO AVOID THE HAZARD

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

Warnings

! WARNINGS



ATV-0006

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.

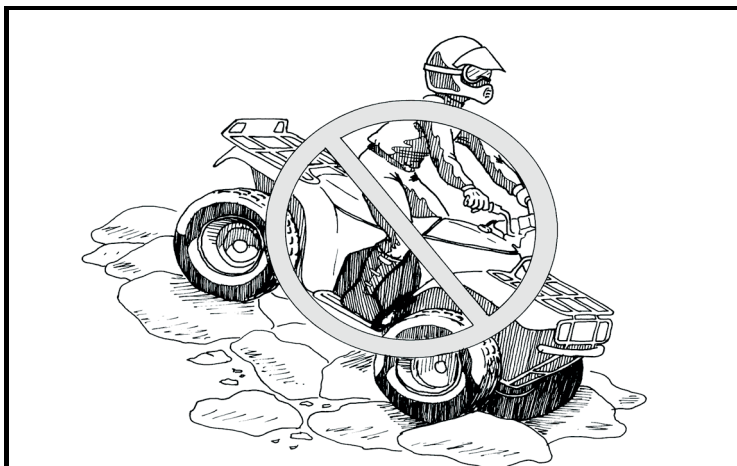
HOW TO AVOID THE HAZARD

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

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

Warnings

! WARNINGS



ATV-0007

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.

WARNINGS

Warnings

! WARNINGS

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.

! WARNINGS

POTENTIAL HAZARD

Operating on steep hills.

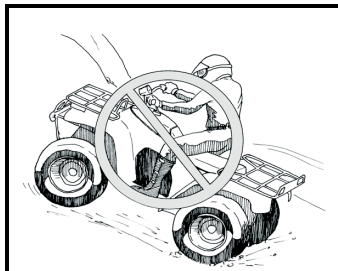
WHAT CAN HAPPEN

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.



ATV-0008

Warnings

! WARNINGS

POTENTIAL HAZARD

Climbing hills improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

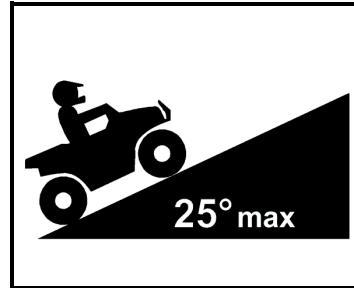
Always follow proper procedures for climbing hills as described in this Operator's Manual.

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.

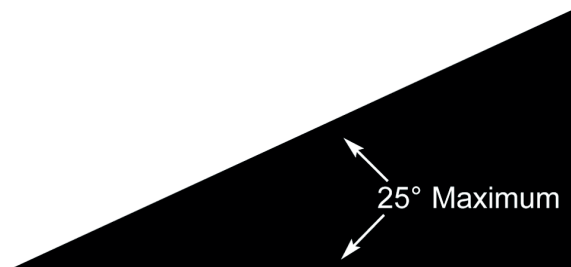
Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.



739-503A

WARNINGS

NEVER OPERATE UP OR DOWN HILLS
STEEPER THAN 25°



Warnings

! WARNINGS

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

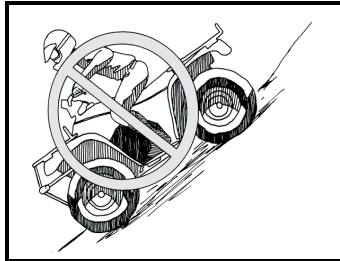
Always follow proper procedures for going down hills as described in this Operator's Manual.

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.



ATV-0009

Warnings

! WARNINGS

POTENTIAL HAZARD

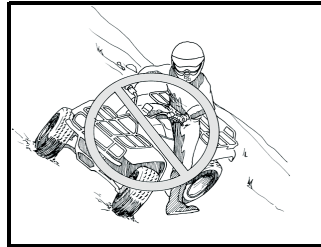
Improperly crossing hills or turning on hills.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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. Avoid crossing the side of a steep hill, if possible.



ATV-0010

When crossing the side of a hill:

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.

WARNINGS

Warnings

! WARNINGS

POTENTIAL HAZARD

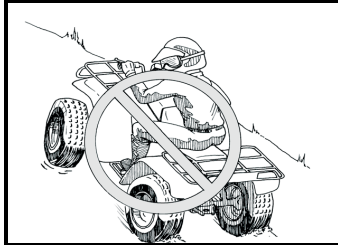
Stalling, rolling backwards, or improperly dismounting while climbing a hill.

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.



ATV-0011

If you lose all forward speed:

- Keep weight uphill. Apply the brakes.

- Engage the parking brake lock after you are stopped.

If you begin rolling backwards:

- Keep weight uphill.

- Apply the brakes while rolling backwards.

- When fully stopped, engage the parking brake 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.

Warnings

! WARNINGS

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.

WARNINGS

! WARNINGS

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.

Warnings

! WARNINGS

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.

! WARNINGS

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.

Warnings

! WARNINGS

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.

WARNINGS

! WARNINGS

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, in some situations, 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.

Prevention

Overview

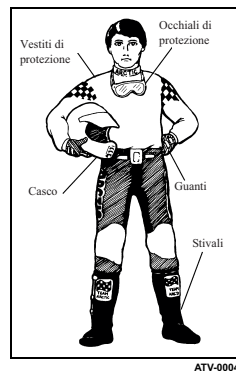
When using an ATV, prevention is the name of the game. “Had you only known” something could go wrong, you would have prevented it. If you don’t notice your conditions and surroundings before riding your ATV, you give up control over the situation. Using ATV prevention techniques helps you forecast potential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

Always follow the safety instructions and warnings in this manual. Remember the key words “Prevention,” “Active Riding,” “Sound Judgment,” and “Supervision” and you will 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. ATV- Following is the minimum protection you need to wear during every ride:



ATV-0004

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

Boots / Ankle Protection

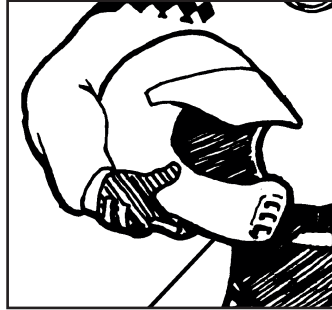
Wear a boot that covers the largest possible area of your leg (preferably up to your knee) and can handle significant impact.

Prevention

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.

Helmet

Your helmet is the most important piece of protective gear for safe riding. A helmet can prevent a severe head injury. There are several types of helmets on the market, but make sure you wear a helmet that complies with the standards ECE.



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.

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.

Prevention

Condition of the ATV

The second step in Prevention is checking the condition of your ATV's. 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 (Brake/Throttle)
3. Lights and Electric
4. Oil, Gasoline, and Fluids
5. Chassis and Suspension

Prevention

T	C	L	O	C
TIRES AND WHEELS	CONTROLS AND CABLES	LIGHTS AND ELECTRIC	OIL AND FUEL	CHASSIS

TIRES AND WHEELS

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

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.

CHECK:

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

CONTROLS AND CABLE

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

CHECK:

1. High/Low
2. Neutral
3. Reverse

A. Brakes

Depress the brake pedal. If either 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. Parking brake lock

Test the brake lever lock and see if it locks the wheels; then disengage it to release the brake.

Prevention

B. Throttle

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

LIGHTS AND ELECTRICAL

Turn the hi-beam and lo-beam on and off to make sure they work. At the same time, check that the taillight, brakelight, turn lights, hazard warning lights, number plate light and horn work. Also, check the indicator/warning lights (turn lights, hi beam and temperature) on your handlebars when you start the ATV. Don’t drive the ATV unless all systems are working. Check the ignition switch.

CHECK:

1. Hi-beam
2. Lo-beam
3. Taillight/brakelight
4. Indicator/warning lights
5. Position lights

CHECK:

1. Hazard warning lights
2. Ignition switch

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.

CHECK:

1. Gas
2. Oil
3. Fluid leaks

CHASSIS AND SUSPENSION

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

CHECK:

1. Suspensions arms
2. shock absorbers/springs
3. Steering
4. Drive chain

Prevention

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

PREVENTION

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* *requested by law in some countries.
- Safety Jacket
- Warning Triangle

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

- Money
- Maps
- Emergency Kit (with Flashlight and First Aid Kit)

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.

CHECK:

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

Prevention

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.

Money

It may be necessary to make an urgent phone call.

Maps

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

Active Riding

Overview

“Active Riding” involves an understanding of how your body weight, balance, gravity, and physical forces affect the handling of the ATV. For example, when you drive a car quickly into a sharp turn, your body is pulled to the outside of the turn by centrifugal force. Although a car is relatively stable, enough centrifugal force can cause an ATV to overturn. Constantly shifting your weight is one major difference between driving a car and riding an ATV. Knowing how to shift your weight is necessary to avoid rolling or flipping the ATV.

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
- Varying Temperature Adjustments
- Braking / Stopping
- Shifting
- Parking
- Dismounting the ATV

Mounting the ATV

To get seated:

1. From the left side, grab the left-side handlebar and apply the hand brake; then 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.

Active Riding

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. Ensure that the fuel valve is in the ON position.
2. Climb up onto the ATV and sit down.
3. Compress the hand brake; then engage the brake lever lock.
4. Shift the transmission into neutral.
5. Turn on the ignition.
6. Press the starter button.
7. Let the engine warm up.

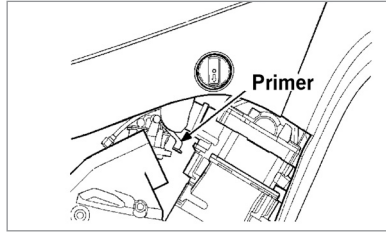
Another way to remember the starting procedure is by using the acronym „BONE-C.“ It stands for:

B	O	N	E	C
BRAKES	ON	NEUTRAL	ENGINE	CHOKE Automatic

Active Riding

Starting A Cold Engine

1. Turn off all electrical accessories (lights, etc.); then rotate the ignition switch key to the first position (ON) leaving the headlights OFF.
Note that the Neutral light is illuminated.



■ Note:

Pump the primer three times when the temperature is at 0° C (32° F) or colder. To access the primer, the seat and right-side heat shield must be removed.

2. Press on the starter button for a maximum eight seconds.
3. If the engine does not start, press the starter button again for eight seconds.

! WARNING

Engaging the starter motor for longer than eight seconds at a time can damage the ATV. The starter motor and wiring harness may overheat. If the engine does not start after several attempts, check

■ Note:

At this point if the engine does not start, pump the primer three more times; then press the starter button again.

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

Run the engine for at least 10 minutes so it is thoroughly warmed up. If the engine is run for a shorter period of time, the spark plug may not have reached a high enough temperature to burn off the excess fuel in the combustion chamber.

Active Riding

Braking/Stopping

Coming to a stop should be a slow, easy process. Always allow plenty of room and time to stop smoothly. Sometimes quick stops are inevitable, so always be prepared. Whether you're stopping slowly or stopping quickly, do this:

1. Release the throttle lever; then apply the hand brake.
2. If the wheels lock, release the brake for a second; then apply it again.
3. When coming to a complete stop, release the throttle lever completely.
4. Never "ride" the brake. Even maintaining minimal pressure on the brake lever or brake pedal will cause the brake pads to drag on

! 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 severe injury or even death.

Active Riding

Shifting

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



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

■ 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 gear to the other. Always shift on level ground, or engage the brake lever lock before shifting into forward gear or into reverse.

! WARNING

Do not start the engine or operate this ATV with the V-belt cover removed. Severe injury could result.

Active Riding

Parking

Parking involves following the previous rules for braking; then:

1. After the ATV stops, shift into neutral.
2. Stop the engine using the engine stop switch.
3. Turn off the ignition.
4. If you have to park on a hill, shift the ATV into low range and block the rear wheels;
5. otherwise, try to park only on level surfaces.
6. 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.

Active Riding

How to handle 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.

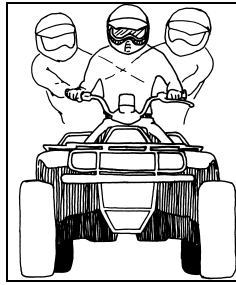
Safe riding techniques include:

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

Riding

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

1. Keep your feet on the footrests and both hands on the handlebar.
2. Apply the brakes releasing the brake lever lock.
3. Move the shift lever from N and select a desired gear; then slowly compress the throttle lever while releasing the hand brake.



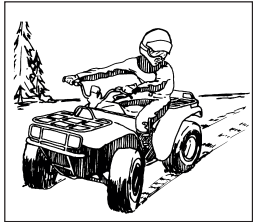
ATV-0012

ACTIVE RIDING

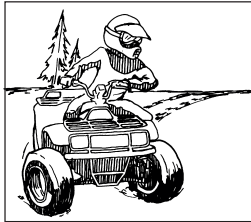
Active Riding

Leaning, Weight Shift, and Balance

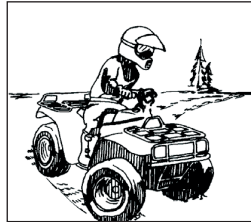
When you turn, the trick is to move forward and slide over to the side of the seat that's on the inside of the turn. Support your body weight on the outside footrest. At the same time, lean your body to the inside of the turn. Pay attention to the handling - if you feel the tires coming off the ground,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



ATV-0013



ATV-0024

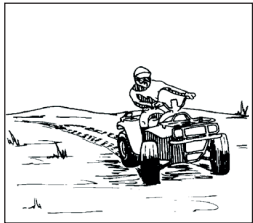


ATV-0025

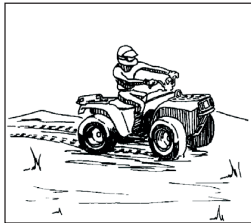
Wide Turns

About 20% of 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:

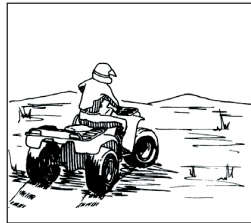
1. Ease off the throttle as you approach the turn to slow down.
2. Use the principles of leaning, weight shifting, and balancing- shift your body weight to the inside of the turn.
3. Gradually increase your speed as you come out of the turn.



ATV-004



ATV-0045



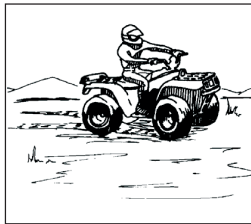
ATV-0044

Active Riding

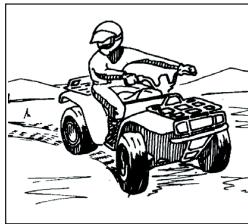
Sharp Turns

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

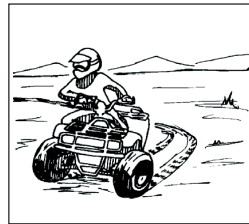
1. Ease off the throttle as you approach the turn to slow down.
2. Use the principles of leaning, weight shifting, and balancing - shift your body weight to the inside of the turn.
3. You might have to lean into the turn more than you do in a wide turn.
4. If shifting your weight and balance aren't enough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



ATV-0038



ATV-0039



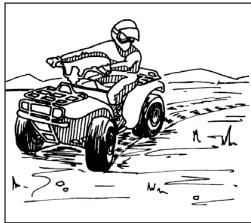
ATV-0040

ACTIVE RIDING

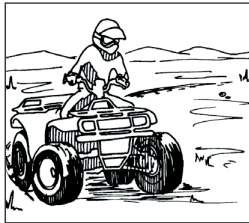
Quick Turns

Quick turns are the most difficult turns and should only be done after you are experienced with your ATV.

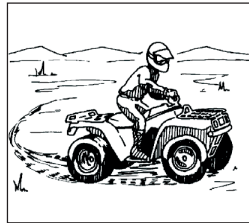
1. Ease off the throttle as you approach the turn to slow down.
2. Turn the handlebars and shift your weight and balance at the
3. same time as you enter the turn (use the principles of leaning,
4. weight shifting, and balancing—shift your body weight to the inside of the turn).
5. Follow this with slight acceleration.
6. For multiple turns, repeat this movement as needed.
7. To make your turn quicker, try raising yourself off the seat a few inches as you shift your weight.



ATV-0021



ATV-0022



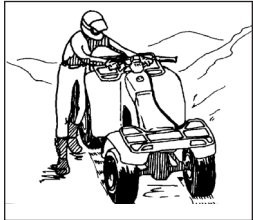
ATV-0023

Active Riding

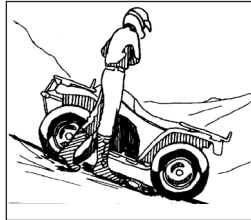
K-Turns

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

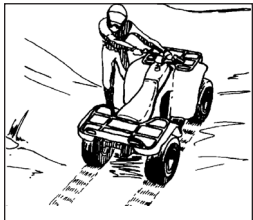
1. Stop where you are, apply the brakes, and shift to neutral.
2. Shut off the engine.
3. Keep your body weight shifted forward.
4. Get off the ATV on the uphill side.
5. If you're to the left of the ATV, turn the handlebar all the way left.
6. Partially release the brake, but lightly hold the brake 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.



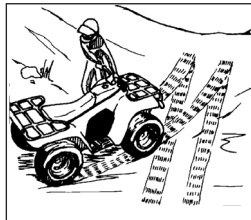
ATV-0020



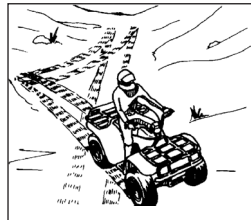
ATV-0034



ATV-0034



ATV-0036



ATV-0037

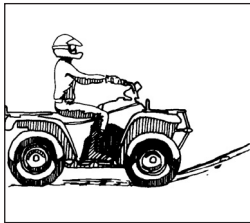
Active Riding

Riding Uphill

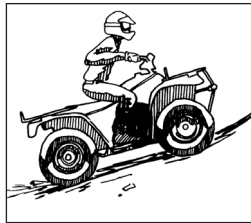
Roughly 20% of accidents happen while riding on hills and as a result of the ATV rolling or flipping. So, obviously, use extreme caution and follow this method for riding uphill.

1. 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, quickly shift to a lower gear (in case of gear box). At the same time, 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.

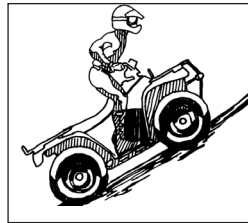
ACTIVE RIDING



ATV-0019

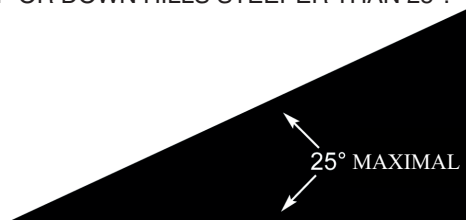


ATV-0032



ATV-0033

NEVER OPERATE UP OR DOWN HILLS STEEPER THAN 25°.

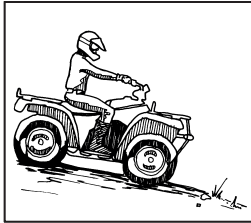


Active Riding

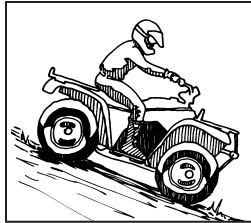
Riding Downhill

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

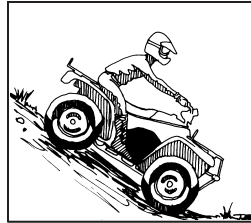
1. Shift your body weight as far back on the seat as possible.
2. Shift into low range; stay out of neutral.
3. Lightly apply the brake and release the throttle lever completely.



ATV-0018



ATV-0030

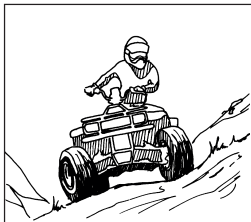


ATV-0031

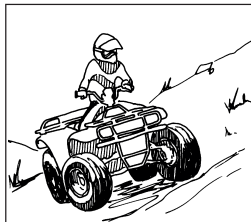
Sidehilling / Traversing

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:

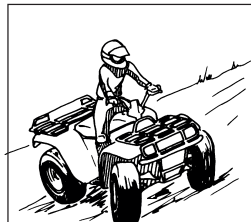
1. Keep your speed low and consistent.
2. Shift all your body weight to the uphill side of the seat; also, support your weight on the uphill footrest.
3. Steer like you're driving into the hill.
4. If the ATV feels like it's tipping, turn the handlebar downhill. If that's not possible because of the terrain or other conditions or if it just doesn't work, stop and get off. Dismount the ATV on the uphill side.



ATV-0017



ATV-0028



ATV-0029

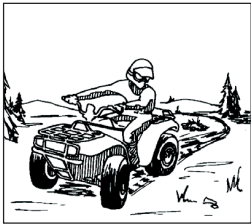
Active Riding

Swerving

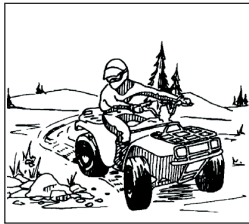
Swerving is usually an emergency reaction to avoid an obstacle but is similar to quick turns. The difference is that quick turns involve slight acceleration in the turn; don't accelerate if you swerve.

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 reback in control.

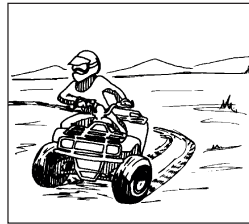
ACTIVE RIDING



ATV-0043



ATV-0042



ATV-0041

Active Riding

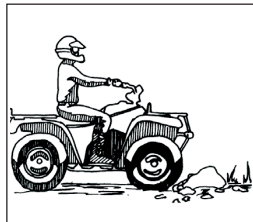
Crossing Obstacles

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:

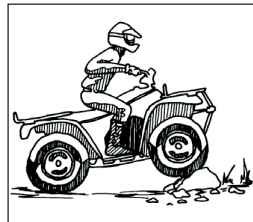
1. Keep your speed way down; less than 5 mph.
2. Approach the obstacle head-on.
3. Come up off the seat.
4. Keep your weight on the footrests.
5. Apply a little throttle when the front tires make contact with the obstacle.
6. Lean forward and release the throttle when the front tires clear the obstacle.
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:

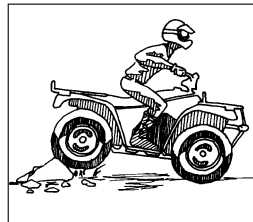
1. Use the ATV's momentum to clear the obstacle.
2. Don't pull up on the handlebar.
3. Don't apply the throttle.



ATV-0016



ATV-0026



ATV-0027

Active Riding

Tips

You know cars. You've been driving them for years. Driving an ATV and a car have similar rules; however, there are always exceptions to the rules. Here are a few situations that require special attention:

- Reversing
- Driving in Cold Weather
- Stopping the ATV
- Stopping the Engine
- Skidding or Sliding
- Parking on a Hill
- Stalling on a Hill
- Crossing Water

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.

Skidding or Sliding

If you lose control after hitting sand, ice, oil, or water:
Turn your handlebar into the direction of the slide.

1. Keep your hand off the brakes until you're out of the skid.
2. 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.

Active Riding

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 front and rear brakes.
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 personal 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.

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.

Driving In Cold Weather

■ Note:

Check that all control levers move freely. Make sure that the footrest and brake pedal are free of ice and snow.

! WARNING

For your personal safety, it is very important to wear the type and amount of cold-weather clothing according to the coldest anticipated temperatures.

Active Riding

1. With the transmission in neutral, move the ATV forward and backward to check that the wheels roll freely. If the ATV will not roll, the tires may be frozen to the ground or the brake pads may be frozen to the discs.
2. If the tires are frozen to the ground, pour warm water around them to melt the ice.

! CAUTION

Before riding, manually move the ATV forward and backward to make certain that all wheels roll freely.

ACTIVE RIDING

3. If the brakes are frozen, take the ATV to a warmer area to thaw out the brakes.

■ Note:

After the brakes thaw, dry them by applying them several times while riding slowly.

! WARNING

Do not attempt to free frozen brakes by pouring warm water on the brake pads and housings.

■ Note:

After riding through water, mud, snow, or slush, it is important to dry both brake systems before parking the ATV.

! WARNING

Go slowly and be extra careful when riding on snow-covered or ice-covered terrain. Always be alert to changing terrain conditions when operating the ATV.

4. Practice driving in an open snow-covered or ice-covered area at slow speeds before driving on snow-covered or ice-covered trails.
5. Learn how the ATV responds to steering and braking on the type of terrain to be encountered on the ride.

Active Riding

Stopping The ATV

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

Stopping The Engine

To Stop the engine, turn the ignition switch key to the OFF position.

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 controls you, not the other way around. And there's nothing you can do about it except respect it.

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

Just because you're on familiar terrain doesn't mean you can start daydreaming. 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.

Sound Judgment

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. Accepting that challenge means keeping your weight shifted into the slope. Denying the challenge means sliding off the trail.

Sound Judgment

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.

Riding with companions on several ATV's is not the same as riding one ATV with a passenger. Passengers are prohibited. The extra weight on the seat makes the ATV 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 others and make yourself be seen. If you can't see other vehicles coming, that means you're invisible, too.

SOUND JUDGMENT

Sound Judgment

Hikers

People can get to some strange places on foot that you'd never expect them to be. For their sake, keep your eyes open.

Animals

You love the outdoors... you love to hunt and fish... so don't destroy what you love.

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

Limit the ATV to the specified load capacity rating. The combined weight limit, including you and your personal items, is a specified amount, so consult the ATV Load Capacity Chart and monitor it carefully.

Extra weight on the ATV will also throw you off balance if it's not distributed evenly.

Think about these when dealing with weight:

1. Weight distribution
2. ATV speed

Sound Judgment

Personal Choices

You value your freedom... the freedom to be adventurous, and care-less, and reckless... to live life to its fullest and take chances. The other side of the story is the tragedy that sometimes occurs during these adventures... when a victim's family says, "Had I only known how dangerous these ATV's can be." Making good personal choices is your responsibility.

Maximum Load Capacity Chart

Model	Specifications
400 2x4 / 400 4x4	220 kg

ATV Load Capacity – Total weight of rider, personal items, and accessories must never exceed the above maximum load capacity.

! WARNING

Operating this ATV with improper modifications can be hazardous. Improper installation of accessories or modification of the ATV may cause changes in handling which could lead to an accident. Never modify the ATV with improper installation or use of improper accessories. All parts and accessories installed on this ATV must be genuine Arctic Cat parts and accessories designed for use on this ATV. Install and use them according to instructions. If you have any questions, contact an authorized Arctic Cat ATV dealer.

■ Note:

Use extra caution when operating an ATV with additional loads such as accessories and/or personal items. Handling of the ATV may be adversely affected. Reduce speed when adding additional loads.

! WARNING

POTENTIAL HAZARD

Overloading the ATV or carrying personal items 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.

Always follow the instructions in this Operator's Manual pertaining to ATV loading.

Sound Judgment

Your Physical Condition

Don't ride:
1. When you're tired

Being physically exhausted is like being drunk. Try to do something that's detail-oriented when you're really tired, and you'll feel totally uncoordinated.

Reckless Riding

If you are involved in an ATV accident when you're speeding, you have a 25% chance of landing yourself in the hospital. The faster you go, the more likely you are to destroy your head and internal organs, and skip the wheelies, jumps, stunts, and any other showboating.

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 favourite areas. The quickest way to have a land area closed is by riding over the regulations.

Group Behaviour

People always do crazier and riskier things in a group than they would consider doing by themselves. When you're ATV riding with others and things start to get out of hand, decide whether you're willing to be injured or see your friends injured.

SIPDE

By themselves, none of these safe behaviours and sound judgments will go very far. But when you put them all together... when you're paying attention to how you feel, when you're monitoring the movements of your ATV, and when you're constantly evaluating your environment, then you're practicing SIPDE. SIPDE is an acronym that stands for:

S	I	P	D	E
<u>S</u> can/Search	<u>I</u> dentify hazards	<u>P</u> redict what will happen	<u>D</u> ecide what to do	<u>E</u> xecute the decision

Sound Judgment

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, and have them read the Operator's Manual. You train them. It doesn't matter how you do it, as long as you do it.

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.



DIVISION II

(OPERATION AND MAINTENANCE)

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 your Arctic Cat dealer or Arctic Cat GmbH, After Sales Department, Industriestraße 43, 5600 St. Johann, for proper registration information. Division II of this Operator's Manual was prepared by the Service Department of Arctic Cat.

You have chosen a quality Arctic Cat ATV designed and manufactured to give dependable service. Be sure, as the owner/operator of an Arctic Cat ATV, to become thoroughly familiar with its basic operation, maintenance, and storage procedures. Read and understand the entire Operator's Manual before operating the ATV to ensure safe and proper use of your new Arctic Cat ATV. Always operate the ATV within your level of skill and current terrain conditions.

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 Division II were technically correct. Some illustrations used in Division II are used for clarity purposes only and are not designed to depict actual conditions. Because Arctic Cat 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.

SPECIFICATIONS* 400 2x4

ENGINE AND DRIVE	
Type	Four-Cycle/Oil Cooled
Bore x Stroke	81 mm x 71,2 mm (3.19 x2.80 in.)
Displacement	366 ccm (22.33 cu in.)
Ignition Type	CDI
Spark Plug Type	NGK CR8E
Spark Plug Gap	0.7 -0.8 mm (0.022 - 0.032 in.)
Brake Type	Hydraulic w/Twin Disc (Front) Hydraulic w/Single Disc (Rear) Mechanical Parking Brake
Carburetor Type	Keihin CVK34
CHASSIS	
Length (Overall)	2205.8 cm (81,02 in.)
Height (Overall)	1118,4cm (46,6 in.)
Width (Overall)	111,4 cm (43,9 in.))
Suspension Travel	17,8 cm (7 in.)
Wheelbase	121.9 cm (48 in.)
Tire Size (Front)	24x8-12
Tire Size (Rear)	24x10-12
Tire Inflation Pressure	0.28 kg/cm ² (4.0 psi)
MISCELLANY	
Dry Weight (Approx)	263 kg (580 lb)
Gas Tank Capacity (Rated)	15.1 L (4.0 U.S. gal.)
Reserve Capacity	2.5 L (0.65 U.S.gal.)
Rear Drive Capacity	250 ml (8.5 fl oz)
Engine Oil Capacity	3.3 L (3.5 U.S. qt) - Overhaul
Gasoline (Recommended)	EU unleaded 91 Octane
Engine Oil (Rec.)	SAE5W-30
Rear Drive Lubricant	SAE Approved 80W-90 Hypoid
Taillight/Brakelight	12V/5W/21W
Number Plate Light	12V/5W
Turn Signal Front	12V/21W
Turn Signal Rear	12V/10W
Headlight	12V/35W/35W
Starting System	Electric

* Specifications subject to change without notice.

SPECIFICATIONS* 400 4x4

ENGINE AND DRIVE	
Type	Four-Cycle/Oil Cooled
Bore x Stroke	81 mm x 71,2 mm (3.19 x2.80 in.)
Displacement	366 ccm (22.33 cu in.)
Ignition Type	CDI
Spark Plug Type	NGK CR8E
Spark Plug Gap	0.7 -0.8 mm (0.022 - 0.032 in.)
Brake Type	Hydraulic w/Twin Disc (Front) Hydraulic w/Single Disc (Rear) Mechanical Parking Brake
Carburetor Type	Keihin CVK34
CHASSIS	
Length (Overall)	205.8 cm (81,02 in.)
Height (Overall)	118,4cm (46,6 in.)
Width (Overall)	111,4 cm (43,9 in.)
Suspension Travel Front/Rear	17,8 cm (7 in.)
Wheelbase	121.9 cm (48 in.)
Tire Size (Front)	24x8-12
Tire Size (Rear)	24x10-12
Tire Inflation Pressure	0.28 kg/cm ² (4.0 psi)
MISCELLANY	
Dry Weight (Approx)	279 kg (615 lb)
Gas Tank Capacity (Rated)	15.1 L (4.0 U.S. gal.)
Reserve Capacity	2.5 L (0.65 U.S.gal.)
Differential Capacity	275 ml (9.3 fl oz)
Rear Drive Capacity	250 ml (8.5 fl oz)
Engine Oil Capacity	3.3 L (3.5 U.S. qt) - Overhaul
Gasoline (Recommended)	EU unleaded 91 Octane
Engine Oil (Rec.)	SAE5W-30
Diff./Rear Drive Lubricant	SAE Approved 80W-90 Hypoid
Taillight/Brakelight	12V/5W/21W
Number Plate Light	12V/5W
Turn Signal Front	12V/21W
Turn Signal Rear	12V/10W
Headlight	12V/35W /35W
Starting System	Electric

* Specifications subject to change without notice.

GENERAL INFORMATION

ATV IDENTIFICATION NUMBERS

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

The Vehicle Identification Number is located on the front of the frame.

The Engine Serial Number is located on the rear of the engine and is visible from the left side.



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.

The same applies for the keys of the anti-theft device.

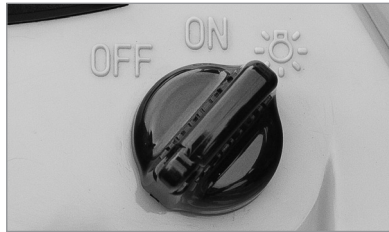


ATV-0055

CONTROL LOCATIONS AND FUNKTIONS

Ignition Switch

The ignition switch has three positions.



KM185

OFF position - All electrical circuits are off. The engine will not start. The key can be removed in this position.

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 position lights are on. The key cannot be removed in this position.

■ Note:

To illuminate the headlight, the engine must be running and the headlight switch must be in the HI or LO position.

! CAUTION

Leaving the ignition switch in the 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.

GENERAL INFORMATION

Indicator Lights



KM176A

1. Turn Lights Left and Right
2. High Beam Indicator - A blue light will illuminate when the engine is running, the ignition switch is in the LIGHTS position, and the headlight switch is in the HI beam position.
3. Temperature Indicator - A red light will illuminate if the engine overheats. The light should be off during normal operation.

Liquid Crystal Display - LCD

1. Adjust Button - Used to toggle between Clock, Hour Meter, Odometer, and Trip Meter in the display (5). In conjunction with the Mode Button (2), sets the clock and resets the trip meter to zero. Also used to toggle between MPH and km/h.

■ **Note:**

Pump the primer three times when the temperature is at 0° C (32° F) or colder. To access the primer, the seat and right-side heat shield must be removed.

2. Mode Button - Used to toggle between MPH and km/h in the display (5) on the LCD. In conjunction with the Adjust/Set Button (1), sets the clock or resets the trip meter to zero.
3. Gear Position Indicator - Indicates which gear position is selected. R (reverse)/N (neutral)/L (low range)/H (high range).

■ **Note:**

An E will be displayed if the transmission is not engaged in a selected gear.

4. Speedometer - Indicates the approximate vehicle speed in miles per hour (MPH) or kilometers per hour (km/h).
5. Clock/Hour Meter/Odometer/Trip Meter - Displays time, total engine hours, total miles/kilometers traveled, or trip miles/kilometers traveled. To set the clock, use steps A-C. To reset the trip meter, proceed to step D.



KM185

A. To set the clock, press and hold the Adjust Button (2) until CLOCK is displayed.



KM185

B. Press and hold the Adjust/Set Button (1) and Mode Button (2) until the hour display starts to flash (approximately three seconds); then release the buttons and press the Adjust Button (1) to set the hour.

■ **Note:**

The hour display will read from 1 to 24 and may be cycled rapidly by holding the Mode Button (2) down for three seconds.

C. After the correct hour is attained, momentarily press the Mode Button (2) to toggle the clock to the minute display (minutes flashing); then press the Adjust Button (1) to set the minutes. After approximately ten seconds, the minute display will stop flashing and the gauge will return to normal operation.

■ **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.

D. To reset the trip meter, press and hold the Adjust Button (1) until TRIP is displayed in the display; then press and hold the Adjust/Set Button (1) and Mode Button (2) until the trip meter reads 0.

Shift Lever



KM203A

To engage the high range from neutral, apply the brakes and move the shift lever forward.

To engage the low range from high range, apply the brakes and move the shift lever outward and forward.

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

shift lever outward and rearward

! WARNING

Never shift the ATV into reverse gear when the ATV is moving as it could cause the ATV to stop suddenly throwing the operator from the ATV.

GENERAL INFORMATION

Foot Brake Pedal or Left Hand Brake Lever



KM130

Pressing the foot brake pedal downwards or compressing the hand brake lever will apply the brake to the front and rear wheels.

Right Hand Brake Lever



The right hand brake lever is considered to be the auxiliary brake. Apply the brake by compressing the lever toward the handlebar.

Brake Lever lock (Parking Brake)



To engage and release the brake lever lock, use the following procedure.

1. Pull the right hand brake lever.
2. While pushing forward 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. Release the brake lever lock by squeezing the brake lever. It will return to its released position.

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

1. Engage the brake lever lock.
2. 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.

! 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.

Headlight LI/LO/HI Switch



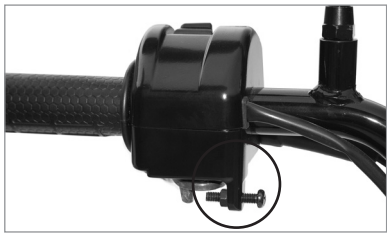
Use the headlight LI/LO/HI switch to select the high or low headlight beam when the ignition switch is in the LIGHTS position. When the switch is in the HI position, the high beam will illuminate. When the switch is in the LO position, the low beam will illuminate. When the

switch is in the LIGHT position, the front and rear position lights and the license plate light will illuminate.

Electric 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 parking brake lock is engaged.

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.

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:

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

Fuel Valve



The fuel valve is incorporated in the gas tank. There are three positions: ON, RES (reserve), and OFF.

In the OFF position, the valve will prevent gasoline flow to the carburetor.

KM146A

GENERAL INFORMATION

In the ON position (the normal operating position), gasoline will flow from the tank to the carburetor. In this position, 2.5 L (0.5 U.S. gal.) will remain in the tank as a reserve quantity.

Moving the valve to the reserve (RES) position will allow the operator to use the remaining gasoline in the tank. When turning the valve to any of the three positions, be sure the indicator is pointed directly at the position desired.

! WARNING

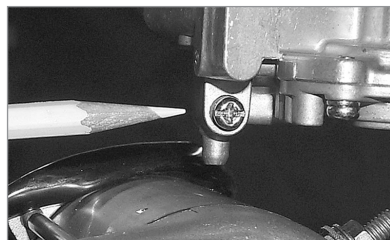
Leaving the fuel valve in the ON or RES position when the engine is off can be hazardous. The carburetor may overflow and fuel may run into the engine. This can cause a fire or cause severe damage to the ATV when the engine is started. Always leave the fuel valve in the OFF position when the engine is not running.

GAS/VENT HOSES

Replace the gas hose every two years. Damage from aging may not always be visible. Do not bend or obstruct the routing of the carburetor vent hose. Make certain that the vent hose is securely connected to the carburetor and hose holder and the opposite end is always open.

CARBURETOR FLOAT BOWL DRAIN

Periodically, the float bowl should be drained to remove condensation. To drain the float bowl, use the following procedure.



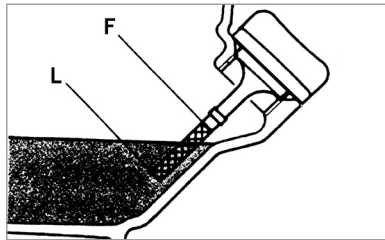
1. Place a suitable container beneath the drain hose.
2. Loosen the drain screw and allow the gasoline and condensation to flow into the container.
3. Tighten the drain screw securely.

! WARNING

Draining fuel from the carburetor can be hazardous. Fuel can catch on fire if not handled properly. When draining the carburetor, always shut the engine off. Do not smoke and never drain or refuel in an area where there are open flames or sparks. Dispose of drained fuel properly.

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.

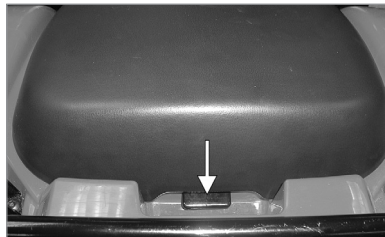
1. Unscrew the oil level stick and wipe it with a clean cloth.
2. Install the oil level stick and thread it into the engine case.
3. Remove the oil level stick; the engine oil level should be above the „L“ mark but not higher than the „F“ mark.

! 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.

GENERAL INFORMATION

SEAT LATCH



1. To remove the seat, lift up on the latch release (located at the rear of the seat); then raise the rear of the seat and slide it rearward.
2. To lock the seat into position, slide the front of the seat into the seat retainer and push down firmly on rear of seat. The seat should automatically lock into position.

firmly on rear of seat. The seat should automatically lock into position.

! WARNING

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

TRANSPORTING ATV

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

1. Engage the brake lever lock.
2. Secure the ATV with load rated hold-down straps.

! CAUTION

If using additional hold-down straps in any other areas, care must be taken not to damage the ATV.

! CAUTION

When transporting the ATV, make sure the parking brake lock is engaged and the ATV is properly secured.

■ Note:

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

GASOLINE-OIL-LUBRICANT

Recommended Gasoline

The recommended gasoline to use in this ATV is 91 minimum octane regular unleaded. In many areas, oxygenates (either ethanol or MTBE) are added to the gasoline. Oxygenated gasolines containing up to 10% ethanol, 5% methane, or MTBE 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.

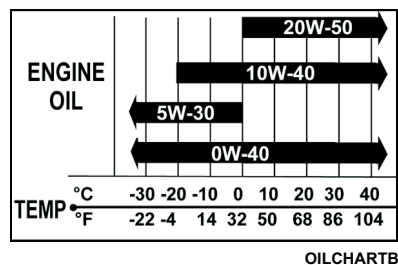
! CAUTION

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

Recommended Engine Oil

■ Note:

Arctic Cat recommends the use of genuine Arctic Cat lubricants.



The recommended oil to use in this ATV is an oil which is rated SE, SF, or SG under API service classification. These oils meet all of the lubrication requirements of the Arctic Cat ATV engine. The recommended engine oil viscosity is SAE 5W-30. Ambient temperature should determine the

correct weight of oil. See the viscosity chart or an authorized Arctic Cat ATV dealer for details.

! CAUTION

Any oil used in place of the recommended oil could cause serious engine damage.

Recommended Transmission/Rear Drive Lubricant

■ Note:

Arctic Cat recommends the use of genuine Arctic Cat lubricants. The recommended lubricant (transmission 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 transmission or rear drive damage.

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.

To remove and install the tank cap, use the following procedure:

1. Remove the vent tube from the instrument pod.

Turn the cap counter-clockwise and remove.

! WARNING

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

2. Turn the cap clockwise to tighten the cap securely after filling the tank; then install the vent tube making sure it is properly routed.

! WARNING

Do not overfill the gas tank.

BREAK-IN PROCEDURE

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

During the first 10 hours of operation, always use less than $\frac{1}{2}$ 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.

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.

! CAUTION

BRAKE PADS MUST BE BURNISHED TO ACHIEVE FULL BRAKING EFFECTIVENESS.

TO PROPERLY BURNISH THE BRAKES, USE FOLLOWING PROCEDURE:

- Choose an area sufficiently large to safely accelerate ATV to 50 km/h (30 mph) and to brake to a stop.
- Accelerate to 50 km/h (30 mph); then compress brake lever to decelerate to 0-10 km/h (0-5 mph).
- Repeat procedure 5 times until brakes are burnished.

GENERAL INFORMATION

! 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.

After the completion of the break-in period, the engine oil should be changed and the screen/filter should be cleaned. 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.

GENERAL MAINTENANCE

■ Note:

Proper maintenance of the ATV is important for optimum performance. Follow the Maintenance Schedule in your Service Booklet.

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.

MAINTENANCE IN DETAIL

COOLING SYSTEM

■ Note:

Arctic Cat recommends the use of genuine Arctic Cat lubricants.

! 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.

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.

■ 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 the 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.

GENERAL MAINTENANCE

■ **Note:**

Use a spanner wrench to adjust the sleeve to the desired position.

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

GENERAL LUBRICATION

Lubrication Points

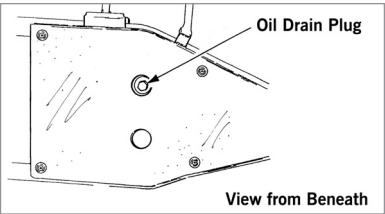
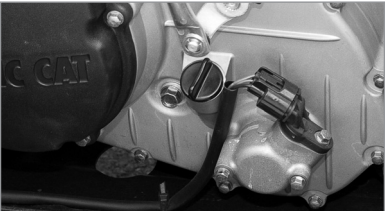
It is advisable to lubricate certain components periodically and before storage to ensure free movement.



- 1. Brake Lever Holder (oil)
- 2. Throttle Lever (oil)
- 3. Steering Shaft Holder (grease)
- 4. Brake Pedal Pivot (grease)
- 5. Shift Rod Ball Joints (oil)

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. Loosen 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.

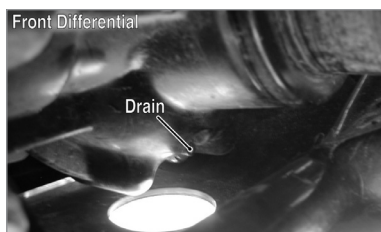
5. Using the oil filter wrench and a ratchet handle (or a socket or boxend wrench), remove the old oil filter and dispose of properly. Do not re-use oil filter.
6. Apply oil to the new filter O-ring and check to make sure it is positioned correctly; then install the new oil filter. Tighten securely.
7. Install the oil filter drain plug and tighten securely.
8. Install the engine drain plug and tighten securely. Pour the recommended 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 oil level.
11. Inspect the area around the drain plug and oil filter for leaks.

Front Differential And Rear Drive Lubricant

(Inspecting/Changing)

Inspect and change the gear lubricant at the scheduled intervals. When changing the lubricant, use approved SAE 80W-90 hypoid oil and use the following procedure.

1. Place the ATV on level ground.
2. Remove each oil filler plug. Be careful not to allow contaminants to enter the opening.
3. Drain the oil into a drain pan by removing in turn the drain plug from each.
4. After all the oil has been drained, install the drain plugs and tighten securely.



GENERAL MAINTENANCE

! 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.

5. 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.

6. 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

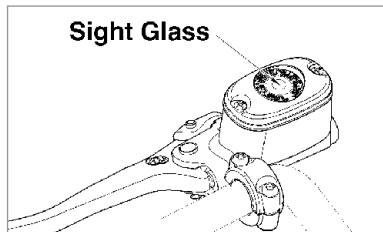


Check the brake fluid level in the hand brake fluid reservoir. If the level in the reservoir is not visible in the sight glass, add DOT 4 brake fluid.

Check the brake fluid level in the foot brake reservoir.

The level must be maintained between the MAX and MIN level marks.

If the level in the reservoir is low, add DOT4 brake fluid.



■ Note:

The brake fluid reservoir is located under the seat.

! CAUTION

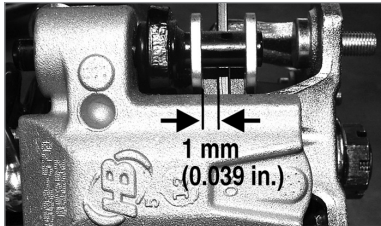
Be careful not to spill any fluid when filling the brake fluid reservoir. Wipe away spilled fluid immediately.

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 condition of each of the brake pads as follows:



1. Remove a front wheel.
2. Measure the thickness of each brake pad.
3. If thickness of either 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.

Brake Lever Lock

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



1. Engage the brake lever lock.
2. 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.

GENERAL MAINTENANCE

PROTECTIVE RUBBER BOOTS

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

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



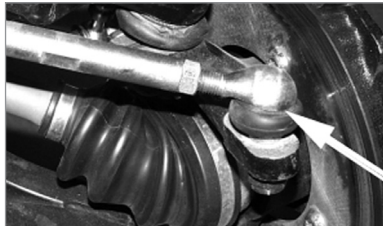
1. Secure the ATV on a support stand to elevate the front wheels.
2. Remove both front wheels.
3. Inspect the four ball joint boots for cracks, tears, or perforations.
4. Check the ball joint for free-play by grasping the steering knuckle

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.

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.

BATTERY

The battery is located under the seat.

The battery in this ATV is a “sealed” type and does not require any maintenance unless discharged. Distilled water and/or electrolyte cannot be added to the battery.

! WARNING

Anytime 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 batteries. When servicing battery in enclosed space, keep the area well-ventilated.

This maintenance-free battery requires periodic charging to prevent sulfiding. If the ATV will be idle for extended periods of time, either run the engine or trickle charge every 30 days. If the battery completely discharges, permanent damage will occur requiring replacement.

If the battery is discharged, remove the battery from the ATV and charge the battery at the standard charging rate of 1.4 amps for 10 hours.

To remove and charge the battery, use the following procedure:

1. Remove the seat assembly; then remove the battery hold-down bracket.
2. Remove the negative battery cable; then remove the positive cable. Remove the battery from the ATV.

! CAUTION

Do not charge the battery while it is in the ATV with the battery terminals connected.

3. Trickle charge the battery at 1.4 amps for 5-10 hours.

! CAUTION

Never exceed the standard charging rate.

! CAUTION

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

4. Place the battery into position in the ATV and secure with the hold-down bracket.

5. Clean the battery posts and cable ends by using a battery post cleaning tool and/or a wire brush to remove dirt, grease, and corrosion.
6. Connect cables to the proper terminals: positive cable to the positive terminal (+) and negative cable to the negative terminal (-). Connect the negative cable last.

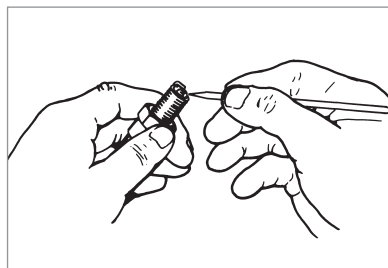
! CAUTION

Connecting cables in reverse (positive to negative and negative to positive) can cause serious damage to the electrical system.

SPARK PLUG

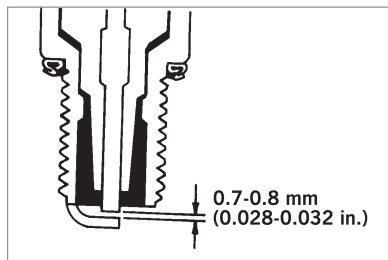
The ATV comes equipped with a specified spark plug. See the specifications chart for the correct spark plug. A light brown insulator indicates that the plug is correct. A white or dark insulator indicates that the engine may need to be serviced or the carburetor may need to be adjusted.

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 the gap to 0.7-0.8 mm for proper ignition. Use a feeler gauge to check the gap.



When installing the spark plug, be sure to tighten it securely. 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.

ENGINE IDLE RPM ADJUSTMENT

To properly adjust the idle, a tachometer is necessary. If one is not available, take the ATV to an authorized Arctic Cat ATV dealer. To adjust idle RPM:



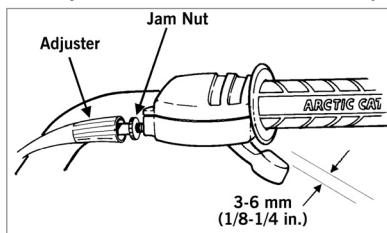
1. Start the engine and warm it up to normal operating temperature.
2. Turn the idle adjustment screw in or out until the engine idles at 1250-1350 RPM.

! WARNING

Adjust the idle to the correct RPM. Make sure the engine is at normal operating temperature before adjusting the idle RPM.

THROTTLE CABLE ADJUSTMENT

To adjust the throttle cable freeplay:



1. Slide the rubber boot away; then loosen the jam nut (1) from the throttle housing.
2. Turn the throttle cable adjuster (2) until the throttle lever has proper free-play of 3-6 mm (1/8 - 1/4 in.).
3. Tighten the jam nut (1) against the

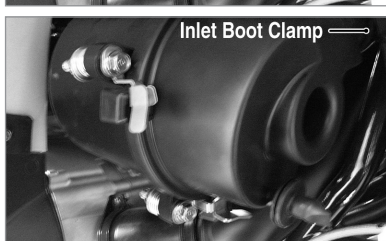
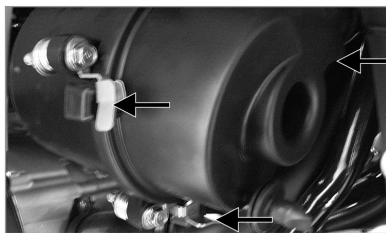
throttle housing securely; then slide the rubber boot over the adjuster.

AIR FILTER (Engine)

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.

! CAUTION

Failure to inspect the air filter frequently if the ATV is used in dusty, wet, or muddy conditions can damage the engine.



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 cleaning 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 wring the element or it will develop cracks.
5. Dry the element.
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.

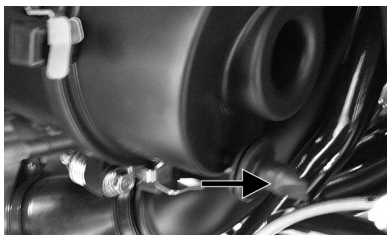
! CAUTION

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.

8. Clean any dirt or debris from inside the air cleaner. Be sure no dirt enters the carburetor.
9. Install the air filter and cover.
10. Connect the inlet boot and tighten the clamp securely.

AIR FILTER HOUSING DRAIN TUBE

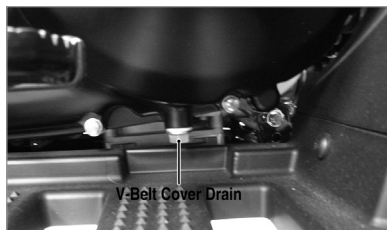
Inspect the "duck bill" drain in front of the main housing for debris and for proper sealing.



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 the water to drain out.
3. Shift the range lever to the neutral position; then start the engine.

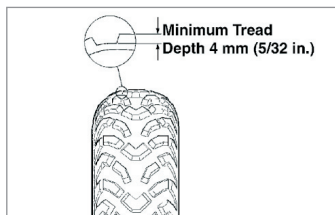
4. Increase and decrease engine RPM several times to "blow out" any water; then stop the engine.
5. Install the drain bolt and tighten securely.

! WARNING

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

TIRES

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 4 mm (5/32 in.). Be sure to replace the tires before reaching this minimum specification.

! WARNING

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

Tire Replacement

The ATV has low-pressure tubeless tires. Air is sealed by the contact surfaces of the inner wheel rim and the tire bead. If either the inner wheel rim or tire bead is damaged, air may leak. Be extremely careful not to damage these areas when replacing tires.

It is very important to use the proper tools when repairing or replacing tires to prevent damage to the tire bead or wheel rims. If proper tools and related items are not available, have this

maintenance performed by an authorized Arctic Cat ATV dealer or a qualified tire repair station.

! CAUTION

When breaking the tire bead loose from the wheel, be extremely careful not to damage the inner wheel surface or the tire bead.

! 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.

WHEEL REMOVAL

1. Park the ATV on level ground and engage the parking brake lock.
2. Loosen the lug nuts on the wheel to be removed.
3. Elevate the ATV by placing a jack under the axle.
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 to 4.4 kg-m (32 ft-lb).

! WARNING

Failure to tighten the wheel nuts to the specified torque value can be hazardous. If the wheel nuts are not properly tightened, the wheel can come off causing an accident and possible injury.

8. Remove the jack.

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

■ Note:

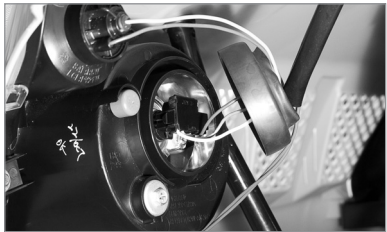
The bulb portion of the headlight is fragile. HANDLE WITH CARE. When replacing the headlight bulb, do not touch the glass portion of the bulb. If the glass is touched, it must be cleaned with a dry cloth before installing. Skin oil residue on the bulb will shorten the life of the bulb.

Headlight	12V/35W/35W
Taillight/Brakelight	12V/5W/21W
Turn Signal Front	12V/21W
Turn Signal Rear	12V/10W
Number Plate Light	12V/5W

! WARNING

Do not attempt to remove the bulb when it is hot. Severe burns may result.

To replace the headlight bulb, use the following procedure:



1. Remove the rubber boot from the back of the headlight housing; then remove the three-wire connector from the bulb.
2. Release the end of the spring clip from the headlight housing taking care not to bend or deform the clip; then remove the bulb from the housing.
3. Install the new bulb into the housing; then secure with the spring clip.
4. Connect the three-wire connector to the bulb; then install the rubber boot.

GENERAL MAINTENANCE

! 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.

Registration Plate Light



KM143B

To replace the taillight bulb, use the following procedure:

1. Remove the two screws and remove the lens.
2. Pull out the bulb.
3. Install the new bulb by pushing it in.
4. Install the lens. Tighten the two screws securely.

Turning Light or Taillight/Brakelight

To replace the turning light or 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.

FUSES



The main fuse is located under the seat near the battery.

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 off; then remove and replace the fuse.

! 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.

Tools

A basic tool kit is provided with the ATV. Maintain the tool kit with the ATV at all times.

GENERAL MAINTENANCE

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. Remove the air filter housing cover and air filter. Start the engine and allow it to idle; then using Arctic Cat Engine Preserver, rapidly inject the preserver into the air filter opening for a period of 10 to 20 seconds. Install the air filter and housing cover.

! CAUTION

If the interior of the air filter housing is dirty, clean the area before starting the engine.

4. Drain the carburetor float bowl.
5. Plug the hole in the exhaust system with a clean cloth.
6. Apply light oil to the upper steering post bushing, plungers of the shock absorbers, and drive chain.
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 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.

! CAUTION

This maintenance-free battery requires periodic charging to prevent sulfiding. If the ATV will be idle for extended periods of time, either run the engine or trickle charge every 30 days. If the battery completely discharges, permanent damage will occur requiring replacement.

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 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.
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. Follow the recommendations found in the Starting the Engine subsection in Division I of this manual.

WARRANTY

Arctic Cat extends legal warranty on each new Arctic Cat ATV and each part and accessory manufactured or sold by Arctic Cat. Warranty claims can be made only for parts and accessories sold by an authorized Arctic Cat ATV dealer. Warranty is extended to the original retail purchaser; however, against a fee of EUR 25,- the balance of the unused warranty may be transferred to a second party.

Warranty claims become invalid when there are other than the genuine Arctic Cat parts used. Arctic Cat does not assume any liability for consequential damages.

Arctic Cat assumes the costs for all parts that are found to be warrantable. The repair work **MUST** be done by an authorized Arctic Cat ATV dealer. No transportation or rental charges (for rented vehicles) 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.

The warranty periods are as follows:

1. 24 months from date of sale – for ATVs.
2. 6 months from date of sale – for batteries.
3. 30 days from date of sale for all parts and accessories.

Excluded from this warranty are:

- Defects due to abuse of the vehicle or spare parts and accessories
- Parts subject to normal wear, abuse, or corrosion and the following parts and items:

Electric components	Engine components
Carburetor components	Hydraulic components
Tires	Drive Chain
Oil Filter	Cables
Air Filter	Torn or Punctured Upholstery
Brake Pads	Crack or Gouges in Body Panels
Light Bulbs	Spark Plug
Clutch Wear Parts	V-Belt
(bushings etc.)	

The following will VOID warranty:

- Failure to perform the proper break-in procedure and all related maintenance and storage procedures.
- Repair by anyone other than an authorized Arctic Cat ATV dealer.
- Improper use.
- Use of improper carburetor jets and other accessories.
- Use of improper gasoline, lubricating oils or spark plug.
- An accident or subjecting the ATV to misuse, abuse or negligent operation.
- Modification or removal of parts (e.g. muffler, carburettor boot etc.) unless instructed to do so by Arctic Cat.
- Use of the ATV in any way for racing purposes.
- Removal of the engine for use in another vehicle.
- Removal or mutilation of the Chassis or Engine Number.
- Use of parts not sold by Arctic Cat.
- Damage due to improper transportation.
- Failure to perform the prescribed service (1. Service after 500 km, 2. Service after 1500 km, 3. Service after 5000 km, afterwards every 5000 km or after 1 year respectively, it depends on what comes first.
- Inappropriate modifications not expressly authorized by the manufacturer.

In consideration of the foregoing any warranty claim is limited induration to the various warranty periods set forth.

WARRANTY CLAIMS

At the time of purchase of a new ATV you get a registration card which you have to fill out and send to Arctic Cat GmbH, Industriestraße 43, 5600 ST. Johann/Pg., Austria. One copy remains with your Arctic Cat ATV dealer.

Apart from that the customer receives a vehicle registration certificate which has to be presented in occasion of each warranty claim.

Only an authorized Arctic Cat ATV dealer has the right to perform warranty repair work.

If a warrantable condition appears to exist, the Arctic Cat ATV dealer examines the ATV and will repair or replace, free of charge all damaged parts. The customer is then asked to sign a warranty form to ensure that warranty work (repair or replacement of the warrantable part respectively) was actually performed.

It's the owner's responsibility to maintain and service the ATV in accordance with Arctic Cat's recommendations in the Operator's Manual.

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.

Change of address / ownership or warranty transfer

Arctic Cat keeps on file the current address of the owner of this ATV. This will allow Arctic Cat to reach the current owner with any important safety information. For this reason we ask you to inform Arctic Cat immediately if you move or if the ATV is sold to another party. Please fill out this form completely and send it to Arctic Cat GmbH, Industriestraße 43, 5600 ST. Johann/Pg., Austria.

This form may also be used to transfer the unused portion of the original warranty to a second party: Fill out this form completely and send it to Arctic Cat GmbH enclosing a copy of the vehicle registration certificate.

ADDRESS CHANGE ☐

OWNERSHIP CHANGE ☐

WARRANTY TRANSFER ☐

**CHANGE OF ADDRESS/OWNERSHIP/WARRANTY
TRANSFER TO:**

Name: _____

Address: _____

Construction year & Model: _____

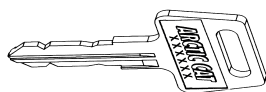
Chassis Nr.: _____

✂ _____

Identification Numbers Record

! WARNING

Indicates a potential hazard that could result in serious injury or death.



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.



Errors and omissions excepted!

■ **Note:** All vehicle features in this booklet refer to the basic variation. Further equipment and options are to be found in the price list.

■ **Note:** Some of the information in this booklet may not be up-to-date due to changes performed since printing. The models shown in the pictures contain, in part, special equipment. Please ask your ATV dealer for the newest information before placing an order. The producer reserves the right to make price, color, material, specification and model changes without notice.