

Do not remove this operator's manual from this vehicle according to the guidelines and agreement with the US consumer product safety commission.

Read this manual carefully. It contains important sufery information.

A WARNING



Operating this ATV if you are under the age of 18 increases your chance of severe injury or death.

NEVER operate this ATV if you are under 18.



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 vehicle.

Keep this Operator's Manual with your vehicle at all times.

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

Free training is available: Call 1-800-887-2887.

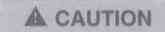
Particularly important information is distinguished in this manual by the following notations:



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



Failure to follow WARNING instructions could result in severe injury or death to the machine operator, a bystander, or a person inspecting or repairing the machine.



A CAUTION indicates special precautions that must be taken to avoid damage to the machine.



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

Ontroduction

FOREWORD

Congratulations and thank you from Arctco®, Inc. for purchasing one of our ARCTIC CAT® All-Terrain Vehicles (ATVs). Built with American 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 vehicle;
- Respect the environment; and
- You will gain the respect of others.

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

All information in this manual is based upon the latest product data and specifications available at the time of printing. Arctco, Inc. reserves the right to make product changes and improvements which may affect illustrations or explanations without notice.



able of Contents

DIVISION I - SAFETY

INTRODUCTION	1
HANG TAGS & WARNING INFORMATION	7
VEHICLE WARNING LABELS	
LOCATION OF PARTS AND CONTROLS	10
OPERATION WARNINGS	
QUICK REFERENCE	
SAFETY SECTION	
Prevention	
Clothing and Gear	30
Condition of the ATV	Δ1
First Aid and Survival	44
Active Riding	
Basic Operating Maneuvers	46
How to Handle the ATV (Active Riding)	
Tips	
Sound Judgment	63
The Environment	
Those Around You	
Equipment	
Personal Choices	
Supervision	73
	73
Taking Responsibility	
-	
DIVISION II - OPERATION/MAINTENAN	ICE
DIVISION II - OPERATION/MAINTENAN	I CE 75
DIVISION II - OPERATION/MAINTENAN PREFACE PARTS AND ACCESSORIES	I CE 75
DIVISION II - OPERATION/MAINTENAN PREFACE PARTS AND ACCESSORIES BEARCAT ATV SPECIFICATIONS	I CE 75 75
PREFACEPARTS AND ACCESSORIESBEARCAT ATV SPECIFICATIONSGENERAL INFORMATION	I CE 75 75 76
DIVISION II - OPERATION/MAINTENAME PREFACE PARTS AND ACCESSORIES BEARCAT ATV SPECIFICATIONS GENERAL INFORMATION ATV Identification	ICE75757677
DIVISION II - OPERATION/MAINTENAND PREFACE	75767777
DIVISION II - OPERATION/MAINTENAND PREFACE	75
DIVISION II - OPERATION/MAINTENAN PREFACE	75
DIVISION II - OPERATION/MAINTENAN PREFACE	75
DIVISION II - OPERATION/MAINTENAN PREFACE PARTS AND ACCESSORIES BEARCAT ATV SPECIFICATIONS GENERAL INFORMATION ATV Identification Ignition Switch Key Control Locations and Functions Gas Tank Cap/Gauge Engine/Transmission Oil Level Inspection Window	75
DIVISION II - OPERATION/MAINTENAN PREFACE PARTS AND ACCESSORIES BEARCAT ATV SPECIFICATIONS GENERAL INFORMATION ATV Identification	75
PREFACE	75
PREFACE PARTS AND ACCESSORIES BEARCAT ATV SPECIFICATIONS GENERAL INFORMATION ATV Identification Ignition Switch Key Control Locations and Functions Gas Tank Cap/Gauge Engine/Transmission Oil Level Inspection Window Seat Lock Safety Flag Bracket Front and Rear Rack Loading Trailering and Towing Transporting ATV Gasoline-Oil-Lubricant Break-In Procedure	75
PREFACE PARTS AND ACCESSORIES BEARCAT ATV SPECIFICATIONS GENERAL INFORMATION ATV Identification Ignition Switch Key Control Locations and Functions Gas Tank Cap/Gauge Engine/Transmission Oil Level Inspection Window Seat Lock Safety Flag Bracket Front and Rear Rack Loading Trailering and Towing Transporting ATV Gasoline-Oil-Lubricant Break-In Procedure Air Filter	75
PREFACE PARTS AND ACCESSORIES BEARCAT ATV SPECIFICATIONS GENERAL INFORMATION ATV Identification Ignition Switch Key Control Locations and Functions Gas Tank Cap/Gauge Engine/Transmission Oil Level Inspection Window Seat Lock Safety Flag Bracket Front and Rear Rack Loading Trailering and Towing Transporting ATV Gasoline-Oil-Lubricant Break-In Procedure	75

OPERATING INSTRUCTIONS	92
Precautions	92
Pre-Start Inspection	93
Starting the Engine	94
Emergency Starting	
Stopping the Engine	96
Starting Off and Shifting	
Braking	97
OPERATING TECHNIQUES	98
Turning	98
Skidding or Sliding	98
Operation on Hills	
Driving over Obstacles	100
Driving Through Water	
Driving in Cold Weather	101
Driving on Snow and Ice	101
Driving in Reverse	102
GENERAL MAINTENANCE	
General Lubrication	103
Hydraulic Brakes	106
Auxiliary Brake	107
Battery	108
Spark Plug	109
Engine Idle Adjustment	110
Throttle Cable Adjustment	
Gas/Vent Hose	
Air Filter	111
Air Filter Housing Drain Tube	
Tires	
Front/Rear Wheel Removal	
Muffler/Spark Arrester	114
Light Bulb Replacement	115
Checking/Adjusting Headlight Aim	116
Fuses	117
Electrical Output Terminals	117
Storage Compartment/Tools	117
PREPARATION FOR STORAGE	118
PREPARATION AFTER STORAGE	
LIMITED WARRANTY	
CHANGE OF ADDRESS, OWNERSHIP, OR	
WARRANTY TRANSFER	191
INDEX	122
IDENTIFICATION NUMBERS	
DECORD	Rack Cover

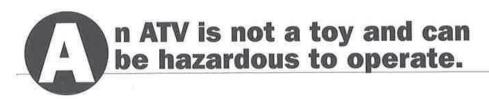
n ATV is not a toy and can be hazardous to operate.

An ATV handles differently from other vehicles including motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers such as turning and driving on hills or over obstacles, if you fail to take proper precautions.

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

- Read this manual and all labels carefully and follow the operating procedures described.
- Never operate an ATV without proper instruction. Take a training course. Beginners should receive training from a certified instructor. Contact an authorized Arctco ATV dealer or call the ATV Safety Institute at 1-800-887-2887 to find out about the training course nearest you.
- Never allow anyone under 18 years of age to operate your ATV.
- Never permit a guest to operate your ATV unless the guest has read this manual and all product labels, and has completed a certified training course.
- Never operate an ATV on any paved surfaces, including sidewalks, driveways, parking lots, and streets.
- Never operate an ATV without wearing an approved helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating an ATV.
- Never operate at excessive speeds. Always travel at a speed which is proper for the terrain, visibility and operating conditions, and your experience.
- Never attempt wheelies, jumps, or other stunts.
- Always inspect your ATV each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Always keep both hands on the handlebars and both feet on the footrests of the ATV during operation.

A WARNING



- 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 Arctco 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 vehicle to lean sharply to one side. Go straight down the hill, where possible.
- Always follow proper procedures for crossing the side of a hill as described in this manual. Avoid hills with slippery or loose surfaces. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you have mastered the turning techniques described in this manual on level ground. Avoid crossing the side of a steep hill, if possible.
- Always use proper procedures if you stall or roll backward when climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Dismount on the uphill side or to either side if pointed straight uphill. Turn the ATV around and mount, following the procedure described in this manual.





- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be careful of skidding or sliding. On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
- Never operate an ATV in fast flowing water or in water deeper than
 the footrests. Remember that wet brakes may have reduced stopping
 ability. 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 your ATV.
- Never install a twist grip throttle on this ATV.
- Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer and allow greater distance for braking.
- No one under the age of 18 should operate this ATV. Some operator's
 at the age of 18 may not be able to operate an ATV safely. Parents
 should supervise the use of the ATV at all times. Parents should
 permit continued use only if they determine that the operator has the
 ability to operate the ATV safely.

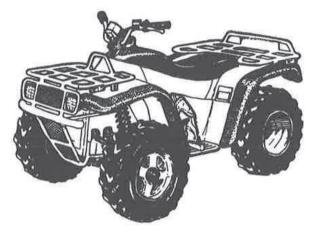
FOR MORE INFORMATION ABOUT ATV SAFETY, call the Consumer Product Safety Commission at 1-800-638-2772 or the ATV Safety Institute at 1-800-887-2887.

▲ WARNING

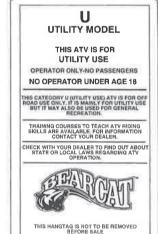


WARNING INFORMATION

Your ARCTIC CAT® ATV comes with a hang tag and several labels containing important safety information. Anyone who rides the vehicle should read and understand this information before riding.



The labels should be considered as permanent parts of the vehicle. If a label comes off or becomes hard to read, contact your ARCTIC CAT® ATV dealer for replacements.





THIS VEHICLE CAN BE HAZARDOUS TO OPERATE A centation or reference can occur quickly, and during routine management and has a turning and string on hills or over obstacles, if you fall to take proper precautions

SEVERE INJURY OR DEATH can result if you do not

- BEFORE YOU OPERATE THIS ATV, READ THE OPERATOR'S MANUAL AND ALL LABELS
- NEVER OPERATE THIS ATV WITHOUT PROPER INSTRUCTION. All operators should complete a certified training course.
- NEVER CARRY A PASSENGER You Increase your risk of losing control if you carry a passenger.
- NEVER OPERATE THIS ATV ON PAVED SURFACES. You are rease your risk of losing control if you again to like ATV on pavement.
- NEVER OPERATE THIS ATV ON PUBLIC ROADS
 You can collide with another vehicle if you operate
 this ATV on a public road
- ALWAYS WEAR AN APPROVED MOTORCYCLE HELMET, eye protection, and protective clothing. NEVER CONSUME ALCOHOL OR DRUGS before or while operating this ATV.
- NEVER OPERATE THIS ATV AT EXCESSIVE SPEEDS. You increase your risk of losing coil you operate this ATV at speeds too feet for terrain, visibility conditions, or your experien
- NEVER ATTEMPT WHEELIES, JUMPS, OR OTHER STUNTS.

THIS VEHICLE 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 tail to take proper precautions.

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

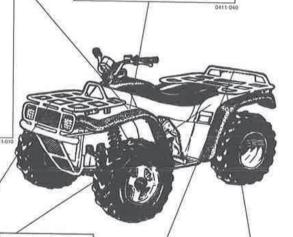
- BEFORE YOU OPERATE THIS ATV, READ THE OPERATOR'S MANUAL AND ALL LABELS.
- NEVER OPERATE THIS ATV WITHOUT PROPER INSTRUCTION, All operators should complete a certified training course.
- NEVER CARRY A PASSENGER. You increase your risk of losing control if you carry a passenger.
- NEVER OPERATE THIS ATV ON PAVED SURFACES. You increase your risk of losing control if you operate this ATV on pavement.
- NEVER OPERATE THIS ATV ON PUBLIC ROADS.
 You can collide with another vehicle if you operate this ATV on a public road.
- ALWAYS WEAR AN APPROVED MOTORCYCLE HELMET, eye protection, and protective clothing.
- NEVER CONSUME ALCOHOL OR DRUGS before or while operating this ATV.
- NEVER OPERATE THIS ATV AT EXCESSIVE SPEEDS. You increase your risk of losing control if you operate this ATV at speeds too fast for the terrain, visibility conditions, or your experience.
- NEVER ATTEMPT WHEELIES, JUMPS, OR OTHER STUNTS.

WARNING



Operating this ATV if you are under the age of 18 increases your chance of severe injury or death.

NEVER operate this ATV if you are under the age of **18**.



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 500 b (227 kg) - 4 x 4 Capacity of 420 by (191 kg) - 2 x 4

LOAD	COLD TIRE PRESSURE
4 x 4 UP TO 500 lb (227 kg)	FRONT 4.0 psi (0,28 kg/cm²) REAR 3,5 psi (0,25 kg/cm²)
2 x 4 UP TO 420 lb	FRONT 4.5 psi (0.31 kg/cm²) REAR

(227 kg) 4.0 psl (0.28 kg/cm²)

TIRE SIZE: FRONT AT 25 x 8 - 12
REAR AT 25 x 10 - 12

0411-012

AWARNING

Riding as a passenger can cause the ATV to go out of control.

Loss of control can cause a collision or rollover, which can result in severe injury or death.

NEVER ride as a passenger.

0411-03

(4 x 4 Model)

AWARNING

NEVER carry passenger on this carrier or on ATV. MAXIMUM LOAD: 100 lb (45 kg) evenly distributed.

(2 x 4 Model)

0411-006

AWARNING

NEVER carry passenger on this carrier or on ATV. MAXIMUM LOAD: 60 lb (27 kg) evenly distributed.

0411-059

(4 x 4 Model)

▲WARNING

NEVER carry passenger on this carrier or on ATV. MAXIMUM LOAD: 200 lb (91 kg) evenly distributed.

(2 x 4 Model)

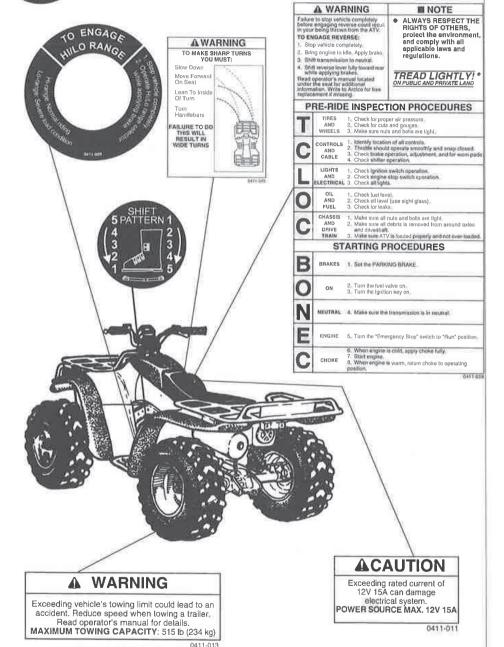
0411-007

AWARNING

NEVER carry passenger on this carrier or on ATV. MAXIMUM LOAD: 160 ib (73 kg) evenly distributed.

0411-059

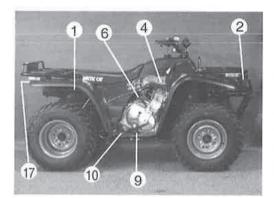
Warning Labels

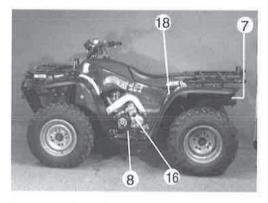


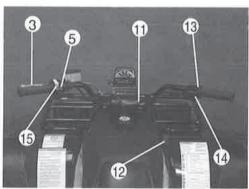
(4 x 4 Model)

o

ocation of Parts and Controls







- 1. Battery
- 2. Headlights
- 3. Hand Brake Lever
- 4. Fuel Valve
- 5. Starter (Choke)
- 6. Seat Lock Lever
- 7. Tool Storage
- 8. Gearshift Pedal
- Auxiliary/Parking Brake Pedal
- 10. Parking Brake Lock
- 11. Key Switch
- 12. Reverse Lever
- 13. Throttle Limiter
- 14. Throttle Lever
- 15. Handlebar Switches
- 16. Hi/Lo Range Lever
 - (4 x 4 only)
- 17. Taillight/Brakelight18. Operator's Manual
 - Location



The machine you have purchased may differ slightly from those shown in the figures of this manual.

A WARNING



POTENTIAL HAZARD

Operating this ATV without proper instruction.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Beginning and inexperienced operators should complete the certified training course offered. They should then regularly practice the skills learned in the course and the operating techniques described in this Operator's Manual.

For more information about the training course, contact an authorized ARCTIC CAT® ATV dealer or call 1-800-887-2887.



POTENTIAL HAZARD

Allowing anyone under age 18 to operate this ATV.

WHAT CAN HAPPEN

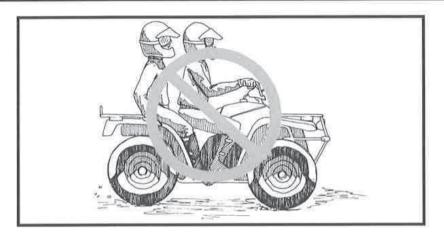
Use of ATVs by children can lead to severe injury or death of the child.

Children under the age of 18 may not have the skills, abilities, or judgment needed to operate the ATV safely and may be involved in a serious accident.

HOW TO AVOID THE HAZARD

A child under 18 should never operate this ATV.





POTENTIAL HAZARD

Carrying a passenger on this ATV.

WHAT CAN HAPPEN

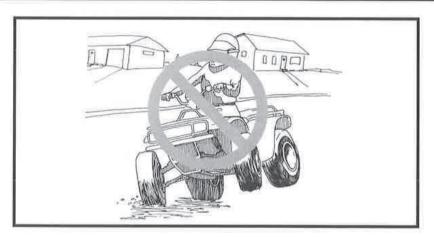
Greatly reduces your ability to balance and control this ATV.

Could cause an accident, resulting in injury or death to you and/or your passenger.

HOW TO AVOID THE HAZARD

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





POTENTIAL HAZARD

Operating this ATV on paved surfaces.

WHAT CAN HAPPEN

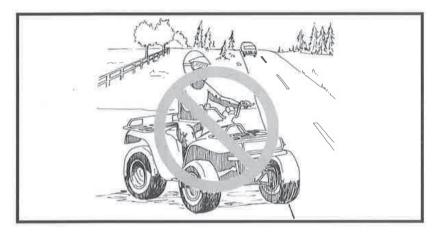
The ATV's tires are designed for off-road use only, not for use on pavement. Paved surfaces may seriously affect handling and control of the ATV, and may cause the vehicle to go out of control.

HOW TO AVOID THE HAZARD

Never operate the ATV on any paved surfaces, including sidewalks, driveways, parking lots, and streets.

A WARNING Indicates a potential hazard that could result in serious in the seriou result in serious injury or death.





POTENTIAL HAZARD

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

WHAT CAN HAPPEN

You can collide with another vehicle.

HOW TO AVOID THE HAZARD

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

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



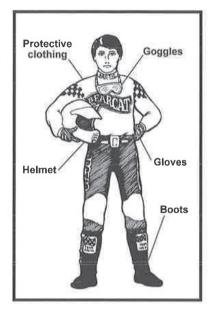
POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Operating without an approved motorcycle 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.

HOW TO AVOID THE HAZARD

Always wear an approved motorcycle helmet that fits properly.

You should also wear: Eye protection (goggles or face shield)

> Gloves Boots

Long-sleeved shirt or jacket

Long pants



POTENTIAL HAZARD

Operating this ATV after or while consuming alcohol or drugs.

WHAT CAN HAPPEN

Could seriously affect your judgment.

Could cause you to react more slowly.

Could affect your balance and perception.

Could result in an accident.

HOW TO AVOID THE HAZARD

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

A WARNING

POTENTIAL HAZARD

Operating this ATV at excessive speeds.

WHAT CAN HAPPEN

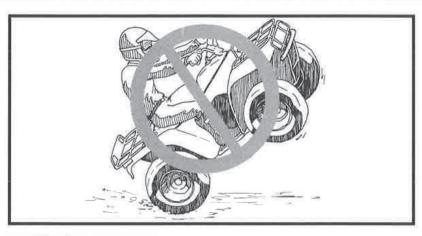
Increases your chances of losing control of the ATV, which can result in an accident.

HOW TO AVOID THE HAZARD

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

WARNING Indicates a potential hazard that could result in serious in the serious





POTENTIAL HAZARD

Attempting wheelies, jumps, and other stunts.

WHAT CAN HAPPEN

Increases the chance of an accident, including an overturn.

HOW TO AVOID THE HAZARD

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



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.



POTENTIAL HAZARD

Removing hands from handlebars or feet from footrests during operation.

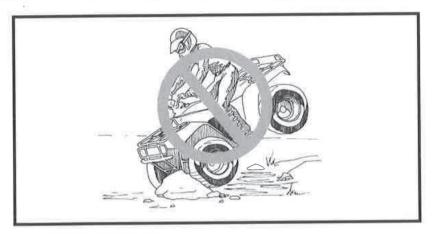
WHAT CAN HAPPEN

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.





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.

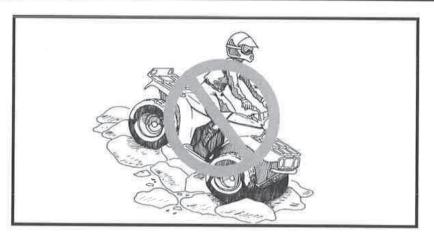
Could result in the ATV overturning or going out of control.

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.





POTENTIAL HAZARD

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

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Do not operate on 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.



POTENTIAL HAZARD

Turning improperly.

WHAT CAN HAPPEN

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

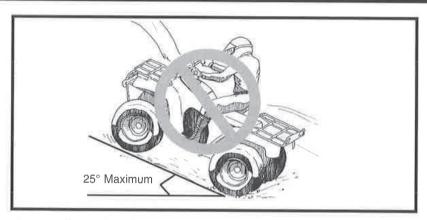
HOW TO AVOID THE HAZARD

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

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

Do not turn at excessive speed.





POTENTIAL HAZARD

Operating on steep hills.

WHAT CAN HAPPEN

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

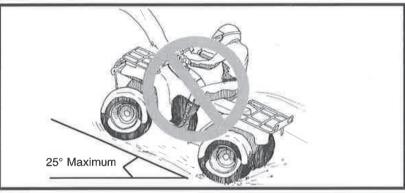
HOW TO AVOID THE HAZARD

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

Practice on smaller hills before attempting larger hills.

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





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.

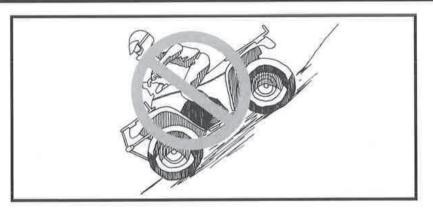
Never climb hills with slippery or loose surfaces.

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.





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 vehicle to lean sharply to one side. Go straight down the hill where possible.

A WARNING Indicates a potential hazard that could result in serious injures.



POTENTIAL HAZARD

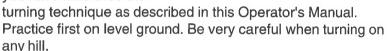
Improperly crossing hills or turning on hills.

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 vou have mastered the



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

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.





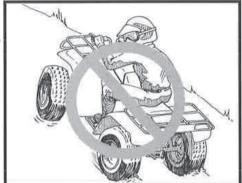
POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Could result in the ATV overturning.

HOW TO AVOID THE HAZARD



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

If you lose all forward speed:

Keep weight uphill.

Apply the brakes.

Lock the parking brake after you are stopped.

If you begin rolling backwards:

Keep weight uphill.

Apply the brakes while rolling backwards.

When fully stopped, lock the parking brake.

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.



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.

A WARNING

POTENTIAL HAZARD

Skidding or sliding.

WHAT CAN HAPPEN

You may lose control of the ATV.

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

HOW TO AVOID THE HAZARD

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

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

A WARNING



POTENTIAL HAZARD

Operating the ATV through deep or fast flowing water.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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

Remember that wet brakes may have reduced stopping ability.

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

A WARNING

POTENTIAL HAZARD

Improperly operating in reverse.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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

A WARNING Indicates a potential hazard that could result in serious injury



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 an accident.

HOW TO AVOID THE HAZARD

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

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

A WARNING

POTENTIAL HAZARD

Operating the ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of the vehicle 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 vehicle should be genuine Arctco 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 ABCTIC CAT® ATV dealer



POTENTIAL HAZARD

Overloading the ATV or carrying or towing cargo improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for the ATV.

Cargo should be properly distributed and securely attached.

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

Always follow the instructions in this Operator's Manual for carrying cargo or pulling a trailer.

Quick Reference

OVERVIEW

This section is intended to give you the basics of ATV safety. More specific information that will help you "PASS" the safety test follows in the Safety section of this Operator's Manual. The idea is that if ATV riders "had only known" safe riding techniques, things to check, and things to watch for, they could have avoided accidents, injuries, and death.

Prevention is wearing proper clothing and gear.

- Approved Helmet
- 2. Eye Protection
- 3. Long Pants
- 4. Long Sleeve Shirt
- 5. Gloves
- 6. Boots / Ankle Protection

Prevention is checking the condition of the ATV every time you ride.

- 1. Brakes Hand and auxiliary/parking.
- 2. **Throttle -** Smooth movement, without sticking.
- 3. **Tires and Wheels -** *Tire pressure* and tire surface (tread and sidewalls).
- 4. Fluids Gas, oil, and engine coolant.
- 5. **Lights -** Hi-beams, lo-beams, taillight /brakelight, indicator/warning lights.
- 6. **Electrical** *Ignition switch and stop switch.*
- 7. **Controls and Cables -** Highforward, low-forward, neutral, and reverse.
- 8. Chassis and Suspension Suspension arms, shock springs, and fenders.
- 9. **Miscellaneous -** Air filter, battery, tighten parts, nuts, and bolts.

A WARNING

uick Reference

Prevention is using T-CLOC to remember parts to check.

T	C	L	0	C
TIRES AND WHEELS	CONTROLS AND CABLES	LIGHTS AND ELECTRIC SYSTEM	O IL AND FUEL	CHASSIS

Prevention is keeping first aid and survival supplies on board every time you ride.

- 1. Tools - Lightbulbs, duct tape, rope, spark plug, and spare parts.
- Water
- Identification
- 4. Money
- 5. Maps
- **Emergency Kit** Flashlight, matches, flares, First Aid Kit.

Active Riding is learning basic **ATV** operating maneuvers.

- Mounting the ATV 1.
- 2. Starting
- 3. Braking / Stopping
- 4. Turning
- 5. Shifting
- 6. Parking
- 7. Dismounting the ATV

Quick Reference

Active Riding is using BONE-C to remember the starting procedure.

В	0	7	E	C
BRAKES	ON FUEL	NEUTRAL	E NGINE	C HOKE
LOCKED	VALVE	TRANSMISSION	SWITCH	ON

Active Riding is knowing how to handle the ATV using safe riding techniques.

- 1. Riding
- 2. Leaning, Weight Shift, and Balance
- 3. Wide Turns
- 4. Sharp Turns
- 5. Quick Turns
- 6. K-Turns
- 7. Riding Uphill
- 8. Riding Downhill
- 9. Sidehilling/Traversing
- 10. Swerving
- 11. Crossing Obstacles

Active Riding is knowing how to use safe riding techniques in special situations.

- 1. Reversing
- 2. Skidding or Sliding
- 3. Parking on a Hill
- 4. Stalling on a Hill
- 5. Crossing Water
- 6. Crossing Roads



Quick Reference

Sound Judgment is knowing the environment you ride in.

- 1. **Weather -** Know what the forecast is for your riding time.
- 2. **Terrain** Know where you're riding and the possible hazards.
- 3. Night Riding Don't do it.
- 4. Paved Surfaces Stay off paved surfaces.
- 5. **Trail Riding -** Be aware of trail conditions and other trail users.

Sound Judgment is being aware of those around you.

- 1. Riding Companions Keep a safe distance from others in your group and refuse to carry passengers.
- 2. Other Vehicles Make yourself visible and watch for others.
- 3. **Hikers -** Expect people to be in unexpected places.
- 4. **Animals and Nature -** Respect the environment.



A WARNING

Sound Judgment is riding within the ability of your equipment.

- 1. **Vehicle Maintenance -** Riding only when the ATV is in good mechanical condition.
- 2. **Cargo Limitations -** Rack weight limit, trailer towing weight limit, weight distribution, and vehicle speed.

Sound Judgment is making personal choices that affect your safety.

- Alcohol and Drug Consumption -Do not consume alcohol, medication, or illegal/mood altering drugs before or during your ride.
- 2. Your Physical Condition Refuse to ride if you're tired.
- 3. Reckless Riding Respect ATV limitations.
- 4. Laws and Regulations Learn local and state/provincial laws and regulations.
- 5. **Group Behavior -** Avoid risky group situations.
- 6. **Underage Riders -** Never let anyone under the age of **18** operate the ATV.

uick Reference

Sound Judgment is using SIPDE to evaluate yourself, your vehicle, and your environment.

S		P	D	E
SCAN/ SEARCH	IDENTIFY HAZARDS	PREDICT WHAT WILL HAPPEN	D ECIDE WHAT TO DO	EXECUTE THE DECISION

Supervision is taking responsibility for others that use your ATV.

- 1. Inexperienced/Untrained Riders - Keep them off your ATV
- 2. Experienced/Trained Riders - Get them familiar with the controls and characteristics of your ATV.
- 3. Underage Riders Do not permit anyone, experienced or not, to ride your vehicle if they are under the age of 18.

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 machine.

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

Clothing and Gear

Unless you want to scrape your skin or spend months recovering from a serious head injury, you'll find it important to dress correctly for ATV riding. It's easy and could save you time in the long run from picking gravel out of your skin. This is the minimum

protection you need to wear during every ride:

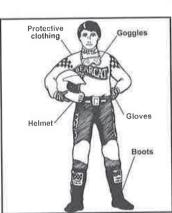
- 1. Helmet
- 2. Eye Protection
- Long Pants
- 4. Long Sleeve Shirt
- 5. Gloves
- 6. Boots / Ankle Protection

Preference Warning on page 16.

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.





Prevention

Helmet

There are several types of helmets on the market, but make sure you wear a helmet that complies with the standards of the U.S. Department of Transportation (DOT), The Snell Memorial Foundation, or the American National Standards Institute (ANSI). Helmets that comply with one or more of these agency's standards have a sticker on the inside or outside of the helmet.

These helmets should provide full-face protection.

Helmets should have one of these:

- 1. DOT label
- 2. Snell label
- 3. ANSI Z90.1 label



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.

And remember, your helmet won't do you any good if the chin strap isn't fastened.

Eye Protection

Dirt in the eye could mean nailing that rut you planned to avoid or hitting that grass-covered stump that you didn't see. Wear eye protection, such as goggles, to completely surround your eyes. Sunglasses are not recommended; they don't prevent objects from flying in through the sides.

Long Pants and Long Sleeve 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.



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.

Boots / Ankle Protection

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

Condition of the ATV

The second step in *Prevention* is checking the condition of your machine. Chances are good that you'll be using your ATV in some rough terrain, and

TESTIMONIAL

DOCUMENT #: X464181A1 CITY/STATE: LAUREL, MS

AGE: 25

BODYPART: ALL PARTS BODY DATE ACCIDENT: 6-25-93

DISPOSITION: DOA

synopsis: A 25 year old male died from drowning after the 4-wheeled ATV he was driving overturned and landed on the victim, pinning him face down in 6 inches of water in a drainage ditch. The victim had failed to make a right hand turn and drove off the side of the road. The victim was driving at an excessive speed, and under the influence of alcohol. He was pronounced dead at the scene. The victim was not wearing a helmet.

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. Brakes
- 2. Throttle
- 3. Tires and Wheels
- 4. Fluids
- 5. Lights
- 6 Flectrical
- 7 Controls and Cables
- 8. Chassis and Suspension
- 9. Miscellaneous



Prevention

One easy way to remember what parts you need to check is by using the acronym "T-CLOC". It stands for:

T	C	L	0	C
TIRES AND WHEELS	CONTROLS AND CABLES	LIGHTS AND ELECTRIC	OIL AND FUEL	CHASSIS

Brakes

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

Check:

- 1. Hand brake lever
- 2. Auxiliary brake pedal
- 3. Parking brake lever

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

Throttle

The throttle should have a free, smooth range of motion. If it seems to "stick" at any point, refer to the Maintenance section of this Operator's Manual for instructions. Driving your ATV with a sticking

Check:

 Free, smooth range of motion

throttle can turn your leisurely ride into an unwelcome accident. Don't drive your ATV if the throttle sticks.

A WARNING

Prevention

Tires and Wheels

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

Check:

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

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

Fluids

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 machine. Watch the overheat lamp to ensure the engine coolant level is adequate.

Check:

- 1. Gas
- 2. Oil
- 3. Fluid leaks

Lights

Turn the hi-beams and lo-beams on and off to make sure they work. At the same time, check that the taillight and brakelight work. Also, check the indicator / warning lights (reverse, neutral, and hi-lo beam) on your handlebars when you start the machine. Don't drive the ATV unless all systems are working.

Check:

- 1. Hi-beams
- 2. Lo-beams
- 3. Taillight/brakelight
- 4. Indicator/warning lights

Electrical

The ATV won't go unless the ignition switch works. Check it and check the engine stop switch.

Controls and Cables

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

Chassis and Suspension

Grass and leaves can gum-up your suspension and shocks. Clear and clean the suspension arms, shock springs, and fenders.

Check:

- 1. Ignition switch
- 2. Stop switch

Check:

- 1. High-forward
- 2. Low-forward
- Neutral
- 4. Reverse

Check:

- 1. Suspension arms
- 2. Shock springs
- 3. Fenders



revention

Miscellaneous

Inspect your air filter. You're looking 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. Refer to the Maintenance section of this Operator's Manual for cleaning instructions. Also, be sure to tighten any loose parts, nuts, or bolts.

Check:

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

First Aid and Survival

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

- Tools
- Water
- Identification
- First Aid Kit

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

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

Tools

Routine maintenance will generally eliminate the need for emergency repairs. But just when you think you're safe, that tree trunk you crossed a few miles back has knocked some bolts loose and you need to make minor adjustments—where's that wrench? Especially on long rides, carrying the right tools can prevent inconveniences from becoming crises.

Carry these items on vour ATV:

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

A WARNING



Water

Water is so important that you need to carry it regardless of the duration of your ride. Heat exhaustion and heat stroke creep up suddenly and they take you out of commission; if you become dehydrated, you could find yourself physically unable to safely operate your vehicle... then what are you going to do?

Identification

If something does happen to you, the emergency personnel will want to know who you are and who 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

Just try making an urgent phone call without a quarter.

Maps

Maps are 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. And flares are appropriate for signaling help. You might be away with your ATV for days at a time, while that gash on your hand from the fishing hook has been

Carry these items:

- 1. Flashlight
- 2. Matches
- 3. Flares
- 4. First Aid Kit

infected for two days. Wouldn't it be good to have a bandage and some disinfectant? You've got things to do and no time to deal with an infected hand.



OVERVIEW

"Active riding" is the second part of "P.A.S.S." It involves an understanding of how your body weight, balance, gravity, and physical forces affect the handling of the ATV. For example, when you drive a car quickly into a sharp turn, your body is pulled to the outside of the vehicle; this is centrifugal force. And though a car is relatively stable, enough centrifugal force can cause an ATV to roll over. 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 machine.

Basic Operating Maneuvers

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

- Mounting the ATV
- Starting
- Braking / Stopping
- Shifting
- Parking
- Dismounting the ATV

Mounting the ATV

To get seated:

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



Starting

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. Then follow these steps to start it up:

- 1. Turn on the fuel tank valve.
- 2. Climb up onto the ATV and sit down.
- Lock the parking brake.
- 4. Shift into neutral.
- 5. Move the choke lever to its closed position if starting the engine cold (if it's already warmed-up, you shouldn't need to use the choke at all).
- 6. Turn on the ignition.
- 7. Move the emergency stop switch to RUN.
- 8. Press the starter button.
- 9. Let the engine warm up.

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

В	0	N	E	C
BRAKES	ON FUEL	NEUTRAL	ENGINE	C HOKE
LOCKED	VALVE	TRANSMISSION	SWITCH	ON

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. Squeeze the brake lever on the left handlebar to apply both the front and rear brakes.
- 2. If your wheels lock, release them for a second, then apply them again.

Shifting

The ARCTIC CAT® ATV has five forward gears. The neutral position is where you start. To shift the vehicle, follow these steps:

- 1. Press the rear of the rocker shifter with your heel to shift into first gear.
- 2. Press the rear of the rocker shifter again for each higher gear.

TESTIMONIAL

DOCUMENT #: N380310A1

CITY/STATE: NEW CUMBERLAND, WV

SEX: M AGE: 18

BODYPART: HEAD

DATE ACCIDENT: 7-30-93

DISPOSITION: DOA

SYNOPSIS: An 18 year old male died as the result of injuries which he sustained in an accident while driving a 4-wheel ATV on a gravel public road. The victim lost control of the ATV when he suddenly applied the brakes to avoid a dog crossing the road. During the accident, the ATV's brake lever penetrated the victim's brain through his right eye resulting in death. The victim was not wearing a helmet.

3. Press on the front of the rocker shifter with the toe of your boot to shift down each gear and into neutral.



A WARNING



Parking

Parking involves following the previous rules for braking, then:

- 1. After the ATV stops, shift it into neutral.
- 2. Stop the engine, using the engine stop switch.
- Turn off the ignition.
- 4. If you have to park on a hill, shift the ATV into low gear; otherwise, try to park only on level surfaces.
- 5. Set the parking brake.
- 6. Turn off the fuel valve.

Dismounting the ATV

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

- 1. Double check that the parking brake is set.
- 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.

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 Uphill
- Riding Downhill
- Sidehilling / Traversing
- Swerving
- Crossing Obstacles

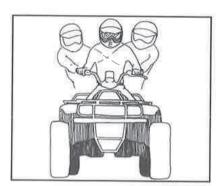




Riding

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

- Keep your feet on the footrests and both hands on the handlebars.
- 2. Hold the brake lever.
- 3. Put it into first gear.
- 4. Release the parking brake.
- 5. Release the brake slowly and apply the throttle.



Leaning, Weight Shift, and Balance

When you turn, the trick is to move forward and slide over to the side of the seat that's on the inside of the turn. Support your body weight on the inside 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.



A WARNING



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.



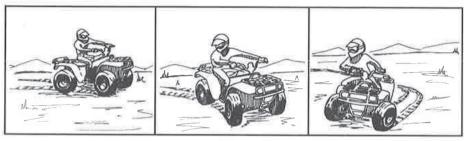
- 2. Use the principles of leaning, weight shifting, and balancing—shift your body weight to the inside of the turn.
- 3. Gradually increase your speed as you come out of the turn.

Peference Warning on page 23.

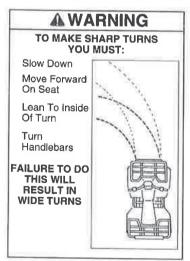
Active Riding

Sharp Turns

After mastering wide turns, you 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.



PReference Warning on page 23.

0411-045

A WARNING



Quick Turns

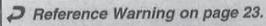
Quick turns are the most difficult turns and should only be done after you are experienced with your ATV.







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

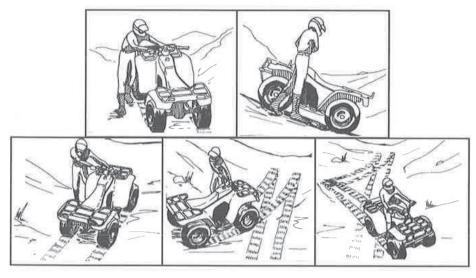






K-Turns

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



- Stop where you are, apply the brakes, and shift to neutral. 1.
- Shut off the engine.
- Keep your body weight shifted forward. 3.
- Get off the machine on the uphill side.
- 5. If you're to the left of the machine, turn the handlebars all the way left.
- 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.
- 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.

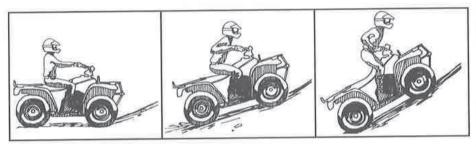
Reference Warning on page 28.

A WARNING Indicates a potential hazard that could result in serious injury and

Active Riding

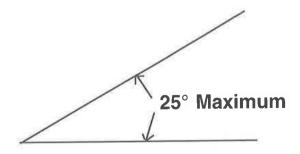
Riding Uphill

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.



- Shift down and accelerate before you start climbing, then maintain a steady pace.
- 2. Lean as far forward as possible. For steeper hills, come off your seat to stand and lean forward.
- 3. If you lose speed, quickly shift to a lower gear. 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.

→ Reference Warning on page 29

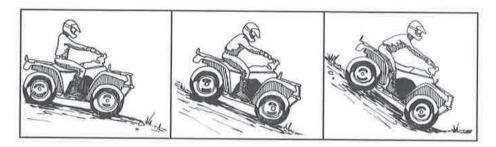


A WARNING

A ctive 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.



- Shift your body weight as far back on the seat as possible.
- Keep it in a low gear; stay out of neutral.
- Lightly apply the brakes and ease up on the throttle.





Sidehilling / Traversing

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



- Keep your speed low and consistent.
- Shift all your body weight to the uphill side of the seat, also supporting 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 handbars 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.

Preference Warning on page 27.



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.
- Turn the handlebars. 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 hands off the brakes until the emergency is over and you're back in control.



Reference Warning on page 23.

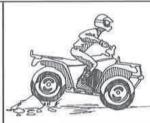


Crossing Obstacles

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:



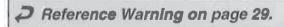




- 1. Keep your speed way down; less than 5 mph.
- Approach the obstacle head-on.
- 3. Come up off the seat.
- 4. Keep your weight on the footrests.
- 5. Apply a little throttle when the front tires make contact with the obstacle.
- 6. Lean forward and release the throttle when the front tires clear the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

- Use the ATV's momentum to clear the obstacle.
- Don't pull up on the handlebars.
- Don't apply the throttle.







Tips

You know cars. You've been driving them for years. Yeah, you feel confident—until you nail an ice patch going fast...your confidence and control go right out the window. There are always exceptions to the rules. Here are a few situations that require special attention:

- Reversing
- Skidding or Sliding
- Parking on a Hill
- Stalling on a Hill
- Crossing Water
- Crossing Roads

Reversing

It's tough to see things behind you. They just seem to jump out while you're looking the other way.

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

Skidding or Sliding

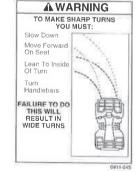
If you lose control after hitting sand, ice, oil, or water:

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

Sometimes your ATV may not respond and plows straight

ahead instead of letting you turn. Here's how to handle it:

- 1. Slow down.
- 2. Move forward on the seat.
- Lean to inside of turn.
- Turn handlebars.



Preference Warning on page 22.

A WARNING



Parking on a Hill

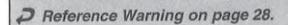
This shouldn't be necessary, but if it is:

- 1. Keep it in gear.
- 2. Lock the parking brake.
- 3. Shut off the fuel valve.
- 4. Find something to block the rear tires.

Stalling on a Hill

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

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





Crossing Water

Your ATV is tough, but we're talking puddles and streams...not a roaring river. Your machine can only handle water up to it's footrests. Any more than that and you risk engine damage. ATV tires can be pretty buoyant, so if the water is too deep, you might find yourself 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.



Crossing Roads

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

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



A WARNING

OVERVIEW

You are not invincible. And knowing that the first "S" in "P.A.S.S." stands for "Sound Judgment" means you need to use yours. Sound judgment is what prevents you from speeding along a trail in the middle of the night and slamming into a tree. Sound judgment keeps you from prematurely meeting your maker.

Do you consider yourself to be pretty conservative, or are you a heavy risk-taker? Before continuing with this section on sound judgment, check your *Risk Factor* by doing this short survey:

1.	Do you drive over 6	0 mph on the freeway?	
	1	2	3
	Never	Sometimes	Often
2.	Ara yau mara darir	ng around your friends than	you are when alone?
۷.	Are you more dam		_
	1	2	3
	Never	Sometimes	Often
3.	Do you drive your o	car when the gas gauge is o	n empty?
	1	2	3
	Never	Sometimes	Often
4.	Do you feel that no	matter what you do, you w	on't get hurt?
	1	2	3
	Never	Sometimes	Often
5.	Do you drink or use	e drugs before you drive you	ur car?
	1	2	3
	Never	Sometimes	Often



6.	Do you dr	ive your car even if it has a major pro	blem with the brakes,
	tires, or e	ngine?	
	1	2	3
	Never	Sometimes	Often
7.	Do you th	rive on the adrenaline rush you get fr	om speeding and
	dangerous	s situations?	
	1	2	3
	Never	Sometimes	Often
8.	Do you hu	rt yourself because you do things tha	t are out of your ability
	range?		
	1	2	3
	Never	Sometimes	Often
9.	Do you ta	lgate other drivers when you think the	ey're driving too slow?
	1	2	3
	Never	Sometimes	Often
10.	Do you pa	ay attention to weather reports before	you do outside activi-
	ties, like s	wimming, camping, fishing, or boatin	g?
	1	2	3
	Never	Sometimes	Often
Add	d the totale	from lines 1 10 VOLID DICK EACTO	D IC.

Add the totals from lines 1-10. YOUR RISK FACTOR IS:

- **10-15:** You're pretty conservative. Chances are good that the consistently safe choices you make will help you avoid hurting yourself and the people around you.
- **16-20:** You're straddling the fence. Depending on your mood or who you're with, the choices you make may help you or hurt you.
- 21-30: You're taking your chances. Time to reconsider a lot of the judgments you make...you leave too much of your personal safety up to luck, whim, and the draw of the cards. You're destined to put yourself in dangerous situations and potentially hurt yourself and the people around you.



The 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. Think about the last time you ignored that thunderhead, gusting wind, or black sky and "did it anyway." If you can't remember the last time, keep it that way. If the last time was yesterday, you're a menace to yourself.

Terrain

You're crazy if you think you can barrel through terrain you've never ridden before and come out unscathed every time. And because you're on familiar terrain doesn't mean you can start daydreaming. "Had you only known" that gentle stream had turned into a rushing river, you wouldn't have tried to cross it. You can't assume that the landscape you're used to doesn't change. 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. Did you know there was a fallen tree over the crest of that hill before you slammed into it? Whether it's familiar or not, check out your surroundings before and during your ride; it's better and less painful than shredding yourself on that brandnew barbed wire fence. Because saying "that wasn't there before" isn't going to heal a thing.

Night Riding

Don't do it! It's a lot more difficult to see what's coming.

Paved Surfaces

Don't do it! The ATV isn't designed for pavement. Its handling becomes more difficult on paved surfaces. If you want pavement, grab your car keys and leave your ATV at home.

PReference Warning on page 14.



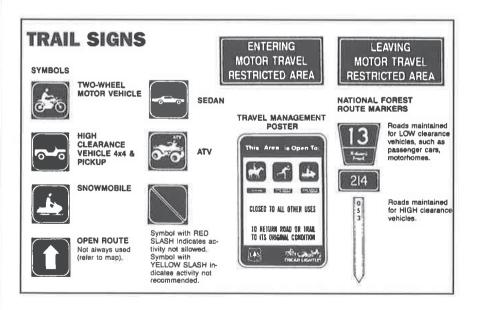
Trail Riding

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.

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





Those Around You

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

Riding Companions

What is that car that's tailgating you on the freeway going to do if you have to stop suddenly? He's going to plow into the back of you before he can react. Leave a lot of space between you and other riders. Especially if you're kicking up dust, it'll be difficult to see the riders in front of you stopping.

Riding with companions on several ATVs is not the same as riding one ATV with a passenger. Passengers are prohibited; it's unsafe. The extra weight on your seat makes the ATV difficult to control. That's like 15 bags of dog food bouncing around back there. And how would you feel about killing your passenger if you do lose control. About 50% of all ATV accidents involve passengers.

Other Vehicles

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

TESTIMONIAL

DOCUMENT #: N490117A1

CITY/STATE: N. HUNTINGDON, PA

SEX: M

BODYPART: HEAD

DATE ACCIDENT: 6-14-94

DISPOSITION: DOA

synopsis: The 6 year old male victim died from blunt force trauma to the head when the 4-wheel ATV on which he was a passenger struck a rock on a hill connecting two roads and flipped over backwards onto the victim, shattering his bicycle helmet. The victim was life-flighted to the hospital and died that night. The driver of the ATV, the victim's 29 year old father, sustained minor injuries, but wasn't treated.

A WARNING

Hikers

People can get to some strange places on their feet that you'd never expect them to be. For the sake of the guy who's innocently collecting firewood or the kid who happens to wander onto your private land, keep your eyes open.

Animals and Nature

You love the outdoors...so it wouldn't be you out there ripping up streambeds, crops, and vegetation with your tire treads. You love to hunt and fish...so charging through lake and forest habitats is helping to 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 machine has its limits.

Vehicle Maintenance

You have to maintain your vehicle. The Maintenance section of this Operator's Manual tells you about taking care of your ATV. If there's something you don't know, give your authorized ARCTIC CAT® ATV dealer a call.

Cargo Limitations

One reason why passengers are prohibited on ATVs is because their presence throws off the weight and balance of the machine. Cargo can do the same if it weighs too much. Limit the ATV to the load capacity ratings identified in the following chart for the particular model being operated. So if you're weighing in at over 200 lb (91 kg) when you ride, better leave some of that extra cargo at home. If your ATV is equipped with a trailer hitch, the combined weight limit, including you, your rack cargo, and your trailer is 1,100 lb (499 kg) for the 2 x 4 model and 1250 lb (568 kg) for the 4 x 4 model, so monitor it carefully.

Preference Warning on page 32.

A WARNING

ITEM	4 x 4 Specifications		2 x 4 Specifications	
	(lb)	(kg)*	(lb)	(kg)*
Max Load Capacity	1250	568	1100	499
Calculation		1 500		
Operator	200	91	200	91
Front Rack (Max)	100	45	60	27
Rear Rack (Max)	200	91	160	73
Accessories (i.e., winch, gun brackets)	35	15	35	15
Trailer (Optional hitch on 2 x 4)	200	91	200	91
Trailer Load	515	233	445	201
Maximum Load Capacity	1250	568	1100	499

^{*}Rounded off

Extra weight on the ATV will also throw you off balance if it's not distributed evenly, side-to-side and front-to-rear. If you have 160 lb (73 kg) on the rear rack only and you're heading up an incline, shifting your own weight forward isn't going to do enough to compensate for that cargo sitting over the back tires.

Think about these when dealing with cargo:

- 1. Rack weight limit
- 2. Trailer weight limit
- 3. Weight distribution
- Vehicle speed

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

Personal Choices

You value your freedom...the freedom to be adventurous, and careless, 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 vehicles can be." Making good personal choices is your responsibility.



Alcohol and Drug Consumption

You've heard these statistics before...alcohol is related to 30% of all hospital admissions due to ATV accidents in the U.S. This isn't an issue of morality. It's extremely dangerous to drink alcoholic beverages and ride...it's also very foolish. When the alcohol starts kicking in and you're

Substances to avoid when riding:

- 1. Alcohol
- 2. Over-the-counter or prescription drugs
- Illegal/mood altering drugs

tearing along on your ATV and those odds do catch you, it's guaranteed that the emergency room doctors who are trying to piece your skull back together again will be thinking one thing...This guy was really foolish.

Be aware of prescription and over-the-counter medications. That codeine might soothe your back, but the drowsiness it causes could knock you right off your ATV seat. The same is true of allergy, cold, flu, and headache medications. Your physical size and weight can't protect you...just one antihistamine tablet can make some 200 pound guys drop right into dreamland.



Reference Warning on page 17.

THE EFFECTS OF ALCOHOL*

The Number of Drinks that Impair Mental and Physical Abilities

1-2 DRINKS

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

3-4 DRINKS

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

5+ DRINKS

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

*According to the ATV Safety Institute.

A WARNING

Sound Judgment

If your sense of adventure persuades you to do illegal drugs when you're riding your ATV, this is a reality check. Two things to think about—legal consequences that will take away all that freedom you love. And the money you'll have to spend after you fly over the ditch...hydraulic lifts that boost a paraplegic into the seat of his truck don't come cheap. Don't use alcohol or drugs before or during your ATV ride.

Your Physical Condition

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

Don't ride:

1. When you're tired

makes you think that you're going to be any more successful driving an ATV?

Reckless Riding

Today you're a regular person, doing regular things—walking into the gas station to get a soda, opening it, drinking it, thinking about your fishing trip

this weekend, and going home to wax vour car. On your way home you do the regular speeding-on-the-freeway thing. When you finally open your eyes in the hospital, your life as a regular person has ended. No more fishing trips, no more driving...you can't even move your hand to open a can of soda. You've heard this all before, but it's worth saying again...if you cause 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.

Reference Warning on page 18.

TESTIMONIAL

DOCUMENT #: X464181A1 CITY/STATE: LAUREL, MS

SEX: M AGE: 25

BODYPART: ALL PARTS BODY DATE ACCIDENT: 6-25-93 DISPOSITION: DOA

SYNOPSIS: The 25 year old male died from drowning, after the

4-wheeled ATV he was driving overturned and landed on the victim, pinning him face down in 6 inches of water in a drainage ditch. The victim had failed to make a right hand turn and drove off the side of the road. The victim was driving at an excessive speed, and under the influence of alcohol. He was pronounced dead at the scene.



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

Sound Judgment

Laws and Regulations

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

Group Behavior

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 behaviors and sound judgments will go very far. But when you put them all together...when you're paying attention to how you feel, you're monitoring the movements of your ATV, and you're constantly evaluating your environment, then you're practicing SIPDE. SIPDE is an acronym that stands for:

S		P	D	E
SCAN/ SEARCH	IDENTIFY HAZARDS	PREDICT WHAT WILL HAPPEN	D ECIDE WHAT TO DO	EXECUTE THE DECISION

Supervision

OVERVIEW

You're responsible for supervising those who ride your ATV. Your wisdom is valuable..it'll bring them all back safely—your friends, your family, your relatives, and your ATV. It's crucial that you consider yourself a supervisor for all riders of your vehicle. 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 machine. There's no way you're going to let your 12-year-old niece drive your car...so why let her drive your ATV? It can be more dangerous—all the more reason for you to be firm.

Reference Warning on page 11.

TESTIMONIAL

DOCUMENT #: N370231A1
CITY/STATE: MOOERSFORKS, NY

SEX: F

BODYPART: UPPER TRUNK DATE ACCIDENT: 6-29-93 DISPOSITION: DOA

SYNOPSIS: The victim of this incident, a five year old female, was operating a four wheeled all terrain vehicle (ATV) in the front yard of her parents' house, under the supervision of her father. The victim drove the ATV down an area where the only way to turn around was around a grain silo. The victim was executing a right hand turn when the vehicle tipped over to the right and fell onto her body. The victim was transported to a local hospital where she was pronounced dead on arrival. Photographs of the incident were not taken by law enforcement officials.

A WARNING

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



Experienced / Trained Riders

If anyone is going to borrow your ATV, you are responsible for their supervision. Before they ride, have them take the training course, have them watch the safety video, have them read the operator's manual. You train them. It doesn't matter how you do it, as long as you do it.

ATVs 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 ATVs, 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 machine.

And remember that regardless of experience, you should never let anyone under the age of 18 operate your ATV.

DIVISION II - PREFACE (Operation/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 Arctco, Inc., Service Department, P.O. Box 810, Thief River Falls, MN 56701, for proper registration information. Division II of this Operator's Manual was prepared by the Service Department of Arctco, Inc.

You have chosen a quality Arctco product designed and manufactured to give dependable service backed by total "field support." 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 Arctco Arctic Cat ATV dealer for professional service.

At the time of publication, all information, photographs, and illustrations were technically correct. Because Arctco, Inc. constantly refines and improves its products, no retroactive obligation is incurred.

PARTS AND ACCESSORIES

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

BEARCAT ATV SPECIFICATIONS*

Гуре	Four-Stroke/ Liquid Cooled		
Bore x Stroke	84 mm x 82 mm (3.30 x 3.22 in.)		
Displacement	454 cc (27.7 cu. in.)		
gnition Type	CDI		
gnition Timing	10° BTDC @ 1800 RPM 30° BTDC @ 3800 RPM		
Spark Plug Type	NGK CR8E		
Spark Plug Gap	0.7 - 0.8 mm (0.028 - 0).032 in.)	
Brake Type	Hydraulic w/Rear Auxil	iary and Parking	
Carburetor Type	Mikuni BST34		
CHASSIS	4 x 4	2 x 4	
_ength (Overall)	204 cm (80.5 in.)	204 cm (80.5 in.)	
Height (Overall)	114 cm (45 in.)	114 cm (45 in.)	
Width (Overall)	114 cm (45 in.)	114 cm (45 in.)	
Suspension Travel	18.2 cm (7.2 in.)	18.2 cm (7.2 in.)	
Ground Clearance	23.3 cm (9.2 in.)	23.3 cm (9.2 in.)	
Wheelbase	127 cm (50 in.)	127 cm (50 in.)	
Track Width	89 cm (35 in.)	89 cm (35 in.)	
Front Tire Size	AT25 x 8-12★	AT25 x 8-12★	
Rear Tire Size	AT25 x 10-12★	AT25 x 10-12★	
Front Tire Inflation Pressure	0.28 kg/cm ² (4.0 psi)	0.31 kg/cm ² (4.5 psi)	
Rear Tire Inflation Pressure	0.25 kg/cm ² (3.5 psi)	0.28 kg/cm ² (4.0 psi)	
Turning Radius	2.7 m (8.9 ft)	2.7 m (8.9 ft)	
Front Rack Capacity	45 kg (100 lb)	27 kg (60 lb)	
Rear Rack Capacity	90 kg (200 lb)	72 kg (160 lb)	
Maximum Load Capacity	227 kg (500 lb)	191 kg (420 lb)	
Maximum Load Capacity (w/trailer)	567 kg (1250 lb)	499 kg (1100 lb)	

MISCELLANY	4 x 4	2 x 4	
Dry Weight (approx.)	283.5 kg (625 lb)	262 kg (585 lb)	
Gas Tank Capacity (rated)	12.0 I (4.5 U.S. gal.)	12.0 l (4.5 U.S. gal.)	
Reserve Capacity	2.01 (0.5 U.S. gal.)	2.0 I (0.5 U.S. gal.)	
Coolant Capacity	2.91 (3.0 U.S. qt)	2.9 I (3.0 U.S. qt)	
Differential Capacity (Front) (Rear)	175 ml (5.8 fl oz) 300 ml (10.1 fl oz)	N/A 300 ml (10.1 fl oz)	
Engine Oil Capacity	3.4 I (3.5 U.S. qt)	3.4 I (3.5 U.S. qt)	
Gasoline (Recommended)	87 Octane Regular Unleaded	87 Octane Regular Unleaded	
Engine Oil (Recommended)	SAE 10W-40	SAE 10W-40	
Differential Lubricant	SAE Approved 80W-90 Hypoid	SAE Approved 80W-90 Hypoid	
Taillight/Brakelight	12V/5W	12V/5W	
Headlight	12V/35W	12V/35W	
Starting System	Electric w/Manual Recoil (Emergency)	Electric w/Manual Recoil (Emergency)	

^{*} Specifications subject to change without notice.

GENERAL INFORMATION

ATV IDENTIFICATION

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

The Vehicle Identification Number is located on the horizontal frame bar beneath the rear left-side fender.

The Engine Serial Number is located on the right-side of the engine crankcase.

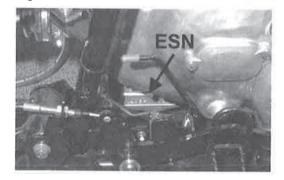
These numbers are required by the dealer to complete warranty claims properly. No warranty will be allowed by Arctco if the Engine Serial Number or Vehicle Identification Number is removed or mutilated in any way.

Always provide the ATV name, Vehicle Identification Number, and Engine Serial

Fig. 1 AF729B



Fig. 2 CC323B



Number when contacting an authorized Arctic Cat ATV dealer for parts, service, accessories, or warranty. If a complete engine must be replaced, ask the dealer to notify Arctico for correct registration information.

IGNITION SWITCH KEY

Two keys come with this 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.

Fig. 3 ARQUE CAT

ATV-0055

ATV-0056

CONTROL LOCATIONS AND FUNCTIONS

Ignition Switch

The ignition switch has three positions.

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

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

ON **OFF** LIGHTS

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

Fig. 2

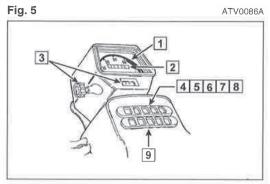
LIGHTS position — The ignition circuit is complete and the headlights and taillight are on. The key cannot be removed in this position.

△ 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.

Speedometer/Indicator Lights (4 x 4 Model only)

- 1. **Speedometer** The speedometer shows approximate speed.
- 2. **Odometer** The odometer shows the total distance travelled.
- 3. **Trip Meter** The trip meter is an odometer which can be reset. It can be used to show the distance traveled on short trips or between gas stops. Turning



between gas stops. Turning the knob counterclockwise resets the trip meter to zero.

- 4. **High Beam Indicator** A blue light will illuminate when the lights are on high beam. The light will not be illuminated when the lights are switched to low beam.
- 5. **Temperature Indicator** A red light will illuminate if the engine overheats. The light should be off during normal operation.

A 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.
- ■NOTE: Debris in front of the engine (or packed between the cooling fins of the radiator) can reduce cooling capability. Using a hose, pressure-wash the radiator to remove any debris preventing air flow to the radiator.
- 6. **Neutral Indicator** A green light will illuminate when the transmission is in neutral and the ignition switch is on. The light will go out when shifted into any gear other than neutral.
- 7. **Reverse Indicator** An orange light will illuminate when the transmission is shifted into reverse gear. The light will go off when shifted out of reverse.
- 8. **Low Oil-Pressure Indicator** (Optional) If installed, a red light will illuminate if the oil pressure is low. The light should be off during normal operation.

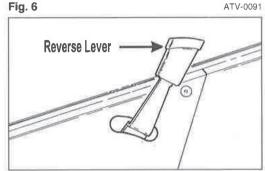
A CAUTION

Continued operation of the ATV with low oil pressure will result in engine damage or premature wear.

9. **Gear Selection Indicator** — A yellow light will illuminate to indicate which gear (1-5) the transmission is shifted into.

Reverse Shift Lever

This ATV has a reverse gear. To shift into reverse gear, stop the ATV completely and shift the transmission into neutral. Pull the reverse shift lever fully rearward. When the ATV is in reverse gear, the gearshift pedal will not function.



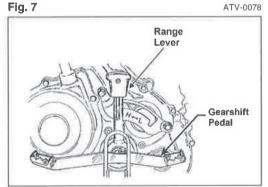
A WARNING

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.

Two-Speed Range Lever (4 x 4 Model only)

■NOTE: All five of the transmission gears and reverse can be used in both HIGH and LOW ranges.

The two-speed range lever is used for changing the output ratio of the transmission. Select HIGH or LOW range according to intended use of the ATV. Always come to a complete



stop before attempting to shift from one range to the other. Shift on level ground or set the parking brake.

HIGH RANGE — Normal riding with light loads.

LOW RANGE — Carrying heavy loads or trailer towing. Compared to HIGH range, the LOW range position provides slower speed and greater torque to the wheels.

To shift to a different range, use the following procedure:

- 1. Stop the ATV completely. If on an inclined surface, set the parking brake.
- 2. Shift the transmission into neutral.
- 3. Pull the range lever up and move it to the desired position (forward position for HIGH range rearward position for LOW range).
- 4. Allow the range lever to lock into position.

A CAUTION

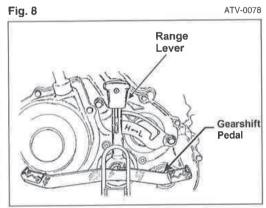
Make sure the range lever locks into the desired position before shifting the transmission.

A WARNING

If the range lever is shifted from high range to low range when the ATV is moving, it could reduce speed suddenly throwing the operator from the ATV and possibly cause damage to the transmission.

Gearshift Pedal

This ATV has a 5-speed transmission. The gearshift pedal is attached to a ratchet mechanism in the transmission. Each time a gear is selected, the gearshift pedal will return to its normal position ready to select the next gear. To return to neutral, press down repeatedly (once for each gear) on the front of the pedal. Shift into gears by pressing down on the back of the pedal once for each gear.

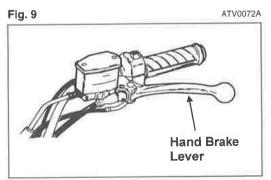


The ratchet mechanism makes it impossible to upshift or downshift more than one gear at a time.

Hand Brake

The hand brake is considered to be the normal operating (main) brake. It should be applied whenever a braking situation is needed.

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



Dimmer Switch

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

Choke Lever Stop Switch Starter Button

ATV-0073

Emergency Stop Switch (Fig. 10)

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

Fig. 10

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

Electric Starter Button (Fig. 10)

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, the reverse shift lever is in the forward position, and the parking brake is set.

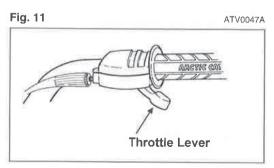
■ NOTE: This ATV has safety interlock switches which prevent the starter motor from activating when the transmission is not in neutral or when the reverse shift lever is in the reverse position.

Choke Lever (Fig. 10)

The carburetor has a choke system to provide easy starting when the engine is cold. The choke is operated by rotating the choke lever downward to "engage" and upward to "disengage." The choke operates best when the throttle is in the closed position. When the engine is warm, the choke should not be used for starting.

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 Limiter Screw

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

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

■ NOTE: The ATV is equipped with an RPM limiter which will cause the engine timing to retard if the engine RPM exceeds 8300.

Jam Nut

Fig. 12

Rear Auxiliary Brake Pedal/ Parking Brake

Pressing the auxiliary brake pedal downward will apply the auxiliary brake to the rear wheels. Pressing the brake pedal downward and moving the lock lever outward will lock the rear wheels for a "parking brake." To release the parking brake, press downward on the brake pedal and the lock will automatically release.

Gas Tank Valve

This ATV has a valve incorporated into the bottom of the gas tank. There are three positions: ON, RES, and OFF.

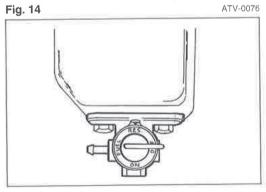
In the OFF position, the valve will not allow gasoline to flow to the carburetor. In the ON position (the normal operating position), gasoline will flow from the tank to the carburetor. In this position, 2.0 L (0.5 U.S.

Fig. 13

ATV-0088

Parking Brake
Lever Lock

Prake Lever



gal.) will remain in the tank as a reserve quantity.

ATV-0053

Limiter

Screw

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.

A WARNING

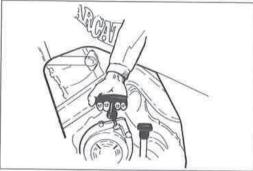
Never leave the valve in the ON or RES position when the engine is not running.

Emergency Recoil Starter

This ATV has an emergency recoil starter if the electric starter becomes inoperative. This recoil starter should never be used as the main starting system for the ATV. Use in emergency only. If the electric starter becomes inoperative due to an electrical malfunction, the starter safety interlock switches may also malfunction. If the emergency recoil starter is to be

Fig. 15

ATV-0054



used, press repeatedly on the front of the gearshift pedal to ensure the transmission is in neutral and also that the reverse lever is in the forward position.

A WARNING

Make sure the transmission is in the neutral position, the reverse lever is in the forward position, and the parking brake is engaged when using the emergency recoil starter.

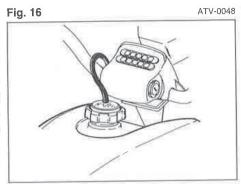
To use the recoil starter, grip the starter rope handle, pull the rope gently until resistance is felt, and then give a short, quick pull. Repeat until the engine starts. Allow the rope to rewind slowly.

A CAUTION

To avoid damaging the recoil starter, DO NOT pull the recoil rope to its limit or release the recoil handle from an extended position. Allow the rope to rewind slowly.

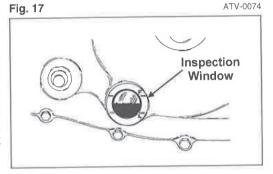
GAS TANK CAP/GAUGE

To remove the gas tank cap, remove the end of the vent tube from the console and twist the cap counterclockwise. To install the cap, twist it clockwise and tighten it securely. Be sure that the vent tube securely connects to the cap and routes into the console and down through the chassis. The gauge shows the approximate amount of gas remaining in the gas tank.



ENGINE/TRANSMISSION OIL LEVEL INSPECTION WINDOW

This ATV is equipped with an oil level inspection window on the lower-right side of the transmission. With the ATV on a level surface, the oil level should be visible at any point between the level marks.



SEAT LOCK

- 1. To remove the seat, pull the seat lock lever forward (located below the right side of the seat). Raise the front end of the seat and slide it forward.
- 2. To lock the seat into position, slide the rear of the seat into the seat retainers and push down firmly on front of seat. The seat should automatically lock into position.

A WARNING

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

SAFETY FLAG BRACKET

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

FRONT AND REAR RACK LOADING

The front rack is designed to carry loads up to 45 kg (100 lb) on the 4×4 and 27 kg (60 lb) on the 2×4 .

The rear rack is designed to carry loads up to 91 kg (200 lb) on the 4 x 4 and 73 kg (160 lb) on the 2 x 4.

▲ WARNING

Make sure the loads on the front and rear racks will not interfere with the ATV controls or obstruct the view of the operator. Also, make sure the loads are evenly distributed, properly secured, and will not shift while operating the ATV.

TRAILERING AND TOWING

WARNING

Never use the racks as a towing or trailering point.

The trailer hitch is standard equipment on the 4 x 4 and is optional on the 2 x 4.

Use a trailer and towing equipment that are compatible to this ATV. Use only a No. 1 trailer hitch ball 48 mm (1 7/8 in.) in diameter or larger. Never use a trailer hitch bracket that provides a trailer coupler location lower than the center of the rear wheels.

Fig. 18 ATV-0050 **Trailer Hitch**

Make sure the cargo weight is

evenly distributed between the right and left sides of the trailer and properly secured

WARNING

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

Reference Warning on page 32.

When loading a trailer properly, two items are critical: Gross Trailer Weight and Trailer Tongue Weight.

Gross Trailer Weight is the weight of the trailer plus cargo. Gross Trailer Weight should never exceed 233 kg (515 lb) on the 4 x 4 and 201 kg (445 lb) on the 2×4 .

Arctic Cat Bearcat ATV Load Capacity Ratings					
ITEM	4 x 4 Specifications		2 x 4 Specifications		
	(lb)	(kg)*	(lb)	(kg)*	
Max Load Capacity	1250	568	1100	499	
Calculation					
Operator	200	91	200	91	
Front Rack (Max)	100	45	60	27	
Rear Rack (Max)	200	91	160	73	
Accessories (i.e., winch, gun brackets)	35	15	35	15	
Trailer (Optional hitch on 2 x 4)	200	91	200	90	
Trailer Load	515	233	445	201	
Maximum Load Capacity	1250	568	1100	499	

^{*}Rounded off

A WARNING

Never exceed any of the ATV weight restrictions.

Trailer Tongue Weight is the downward force exerted on the hitch by the trailer coupler when the trailer is fully loaded and the coupler is at its normal towing height. Approximately 60% of the cargo load must be located in front of the axle of the trailer. Spread the cargo in the trailer so the Trailer Tongue Weight is approximately 10% of the Gross Trailer Weight. Trailer tongue weight must not exceed 23 kg (50 lb).

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

A WARNING

Riding an ATV without extra caution when towing a trailer will be hazardous. Trailer towing can affect the handling and braking of the ATV. Tow only at low speeds and never exceed second gear. Avoid sudden accelerations and stopping of the ATV. Do not make quick maneuvers. Avoid uneven surfaces and do not tow on hills. Never carry passengers in a trailer unless the trailer is designed for such use and has a rigid tow bar. Allow more stopping distance than when not towing a trailer.

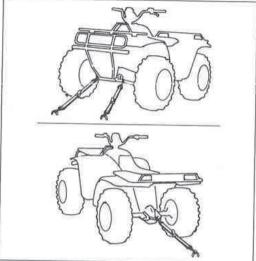
TRANSPORTING ATV

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

- 1. Set the parking brake and place the transmission in first gear.
- 2. Turn the gas tank valve OFF.
- 3. Secure the ATV with load rated hold-down straps in the proper areas. Shown is the minimum number of hold-down straps to be used.

Fig. 17





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

A CAUTION

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

A CAUTION

When transporting the ATV, make sure the parking brake is engaged, the transmission is in first gear, and the ATV is properly secured.

GASOLINE-OIL-LUBRICANT

Recommended Gasoline

The recommended gasoline to use in this ATV is 87 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.

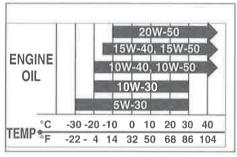
A CAUTION

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

Recommended Engine/Transmission Oil

■ NOTE: Arctco recommends the use of Genuine Arctic Cat lubricants.

The recommended oil to use this in 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 10W-40. Ambient temperature should determine the correct weight of oil. See the



following viscosity chart or an authorized Arctco Arctic Cat ATV dealer for details

△ CAUTION

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

Recommended Differential Lubricant

■ NOTE: Arctco recommends the use of Genuine Arctic Cat lubricants.

The recommended differential lubricant (front and rear) is SAE approved 80W-90 hypoid. This lubricant meets all of the lubrication requirements of the Arctic Cat ATV differentials.

A CAUTION

Any lubricant used in place of the recommended lubricant could cause serious differential damage.

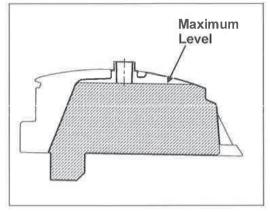
Filling Gas Tank

A WARNING

Always fill the gas tank in a well-ventilated area. Never add fuel 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 Fig. 20 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 garage.

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



WARNING

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

Tighten the gas tank cap securely after filling the tank.

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

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

During the break-in period, a maximum of 1/2 throttle is recomended; however, brief full-throttle accelerations and variations in driving speeds contribute to good engine break-in.

During the break-in period, the hydraulic brake pads must be burnished. Slow disc-speed hydraulic brakes must be properly burnished in order to achieve maximum stopping power. Burnish the brakes by repeatedly driving the ATV slowly and compressing the hand brake lever several times to heat up the brake pads (then allowing them to cool). This procedure burnishes the brake pads, stabilizes the pad material, and extends the life of the brake pads.

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

AIR FILTER

The air filter and foam wrap must be kept clean to provide good engine power, good gas mileage, and to promote long engine life. If the ATV is used under normal conditions, service the air filter at the intervals specified. If dusty, wet, or muddy conditions are encountered, inspect and either clean or replace the air filter and foam wrap much more frequently. Do not apply oil to either the filter or foam wrap.

A CAUTION

Never operate the ATV without the air filter and/or foam wrap. Severe engine damage can occur.

AIR FILTER HOUSING DRAIN TUBE

Periodically (weekly) check the air filter housing drain tube for gasoline or oil accumulation. If any is noticed, drain the housing before operating the ATV.

A WARNING

Failure to properly drain oil or gasoline from the air filter housing can be hazardous. Drain the fluid accumulation into a suitable container and immediately dispose of it properly.

LIQUID COOLING SYSTEM

This ATV is equipped with a liquid cooling system for engine cooling. The cooling system capacity is approximately 2.9 L (3.0 U.S. qt). The cooling system should be inspected daily for leakage and damage. If leakage or damage is detected, take the ATV to an authorized Arctco Arctic Cat ATV dealer for service. Also, the coolant level should be checked periodically.

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

■NOTE: Use a good quality, glycol-based, automotive-type antifreeze.

A WARNING

Never check the coolant level when the engine is hot or the cooling system is under pressure.

△ CAUTION

After operating the ATV for the initial 5-10 minutes, stop the engine, allow the engine to cool down, and check the coolant level. Add coolant as necessary.

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.

OPERATING INSTRUCTIONS

PRECAUTIONS

Before riding, carefully read, understand, and observe all of the information in Division I of this manual. Being properly prepared means a safer and more enjoyable ride.

Always use protective clothing and related apparel when operating an ATV. Recommended items include a helmet, eye protection which surrounds the eyes, long-sleeved shirts and long pants, gloves, and boots with low heels and rugged leg support.

A WARNING

Beginning and inexperienced operators must complete the certified training course. Regularly practice the skills learned in the course and the operating techniques described. For more information about the training course, contact an authorized Arctco Arctic Cat ATV dealer or call 1-800-887-2887.

2

Reference Warning on page 11.

PRE-START INSPECTION

A WARNING

Always inspect the ATV each time it is used to make sure it is in safe operating condition. Perform the following inspection with the engine off.

2

Reference Warning on page 19.

45,5	PRE-START INSPECTION
ITEM	CONDITION
Steering	Check smoothness by turning the Handlebars full-left and full-right. Check that there is no binding, restrictions, free-play, or looseness in steering components.
Brakes	Check the Fluid Level in the reservoir. Add as needed, Check the Hydraulic Brake Lever by compressing it three or four times. There should be no "sponginess" and it should be firm. Check the Parking Brake that the wheels lock when the parking brake is applied. Visually check the thickness of the brake pads.
Tire/air pressure	Check each Tire for proper air pressure. Also, check that each tire has no cracks, rips, or other damage. Check that Tread Wear is not significant (treads should be at least 4.0 mm (0.16 in.) deep for safe usage).
Gasoline	Check the Gasoline Level in the tank to ensure a sufficient amount. Check all gasoline Delivery Hoses for any damage and make sure the Tank Cap is secured.
Lighting	Check that all Lights are working properly. Check High and Low Beam function for proper operation.
Emergency Stop Switch	Check that the Stop Switch moves freely and smoothly between the OFF and ON positions.
Engine Oil	Check the Engine Oil Inspection Window for proper oil level in the crankcase. Add if needed.
Gear Oil	Check the Gear Oil Level in both Differentials for proper level. Add if needed.
Throttle	Check the Throttle Lever by compressing it three or four times. There should be slight amount of free-play and it should return to idle position smoothly and quickly.
Gearshift Pedal & Reverse Lever	Check the Gearshift Pedal for smooth operation in all gear selections. Check Reverse Lever for smoothness and complete engagement and for any looseness; tighten if necessary.
General Condition	Check General Condition of entire ATV. There should be no loose components and no evidence of damage. All fasteners should be tight and secure.

STARTING THE ENGINE

To start the engine, use the following procedure:

- 1. Perform the Pre-Start Inspection.
- 2. Apply the auxiliary brake pedal and set the parking brake.
- 3. Test the operation of the hydraulic brake system by compressing the brake lever. The brake lever must feel firm when compressed.

A WARNING

Do not start the ATV engine if the brake systems are not functioning properly (if the lever feels spongy, if the brake fluid level is not correct, or if the parking brake does not "lock" the rear wheels). Service the brake systems or have them properly repaired prior to operating the ATV. Serious personal injury or even death may occur if the brake systems are not operating properly.

4. Test the throttle control lever by completely compressing and releasing it several times. The lever MUST return to the idle position quickly and completely.

A WARNING

If the throttle control lever does not function properly, DO NOT ATTEMPT TO START THE ENGINE.

- 5. Shift the transmission to neutral.
- 6. Turn the ignition switch key to the ON position.
- 7. Set the emergency stop switch to the RUN position.
- 8. Turn the gas tank valve to the ON position; then use the following "starting" method that applies.

Starting A Cold Engine

If the ambient temperature is below 5°C (40°F):

1. Move the choke lever to the ENGAGE position; then push the electric starter button.

△ CAUTION

Do not continually run the starter motor for more than 30 seconds at a time.

2. Immediately after the engine starts, return the choke lever half way; then when the engine is sufficiently warmed up, move the choke lever to the DISENGAGED position.

If the ambient temperature is at or above 5° C (40° F):

- 1. Move the choke lever half way toward the ENGAGE position; then push the electric starter button.
- 2. When the engine is sufficiently warmed up, move the choke lever to the DISENGAGED position.

A CAUTION

It is extremely important that the engine is properly warmed up before subjecting the engine to high RPM operation or heavy loads. The engine should be allowed to idle at least 3-4 minutes before it is operated at more than ½ throttle. In extremely cold conditions, the warm-up time will be longer. Damage caused by insufficient warm-up will not be covered by warranty.

Starting A Warm Engine

Operating the choke should not be necessary. Open the throttle slightly and push the electric starter button.

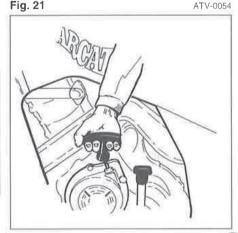
■ NOTE: Operating the choke should not be necessary to start a warm engine. Operating the choke could make the engine hard to start due to too rich gas/air mixture.

EMERGENCY STARTING

This ATV has an emergency recoil starter to use if the electric starter becomes inoperative. To use the recoil starter, follow this procedure:

A WARNING

Be sure the transmission is in the neutral position, the reverse lever is in the forward position, and the parking brake is engaged when using the emergency recoil starter.



- 1. Pull the recoil starter handle slowly until resistance is felt; then give a short, quick pull.
- 2. Repeat until the engine starts.

A WARNING

Be sure to follow all starting procedures when using the emergency recoil starter.

A CAUTION

To avoid damaging the recoil starter, DO NOT pull the recoil rope to its limit or release the recoil handle from an extended position. Allow the rope to rewind slowly.

STOPPING THE ENGINE

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

STARTING OFF AND SHIFTING

A WARNING

Never carry a passenger. The ATV has a long seat so the operator can change positions to maneuver the ATV. It is not designed for passengers.

Reference Warning on page 13.

A WARNING

Never operate the ATV on any paved surfaces including sidewalks, driveways, parking lots, and streets.

Reference Warning on page 14.

- 1. After making sure that the engine is warm, apply the hand brake and release the parking brake (to release the parking brake, simply press downward on the auxiliary brake pedal. The parking brake lock will release automatically).
- 2. With the hand brake applied, engage first gear by pressing downward on the rear of the gearshift pedal. To start moving, release the brake; then gradually compress the throttle lever. When speed has increased, release the throttle lever and press the rear of the gearshift pedal downward to engage second gear. Select third, fourth, and fifth gear in succession by repeating this sequence.

3. Reduce vehicle speed by releasing the throttle, braking as necessary, and shifting down to a lower gear. Shifting to a lower gear is performed by pressing downward on the front of the gearshift pedal. Repeat this sequence to select each lower gear.

BRAKING

A 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. See Break-In Procedure for further information.

When operating an ATV with hydraulic brakes, the operator must be familiar with all of the following items.

- NOTE: Important additional information on the proper maintenance of the hydraulic brake system is found in the General Maintenance section.
- 1. Brake fluid is the heart of the system. Be sure to maintain the brake fluid at the proper level and take care not to get any moisture in the system as moisture in the brake fluid lowers the boiling point. If the brake fluid is ever boiled (by high speed stops or repetitive use) or if moisture is allowed to enter the system, the fluid must be changed. Never substitute or mix different types or grades of brake fluid.
- 2. Never "ride" the brake. Even maintaining minimal pressure on the brake lever will cause the brake pads to drag on the discs and may overheat the brake fluid.

A 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.

A WARNING

Use only Arctco 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.

3. To stop the ATV, first release the throttle lever. Next, apply the hand brake. Except in the case of an emergency (hand brake system malfunction), always use the hand braking system of the ATV. As the ATV speed decreases, shift down through gears.

OPERATING TECHNIQUES

The following should be referred to as a "summary" of techniques which are emphasized in Division I of this manual. For more detailed information, refer to the Safety Section, Active Riding pages in Division I.

TURNING

To turn the ATV, the driver must use the proper technique. Because this ATV has a solid rear axle, both rear wheels always turn at the same speed. This means that if the rear wheels are getting equal traction, the vehicle will tend to move straight ahead. This is because the rear wheels will travel the same distance. In order for the ATV to turn, the outside rear wheel must travel a greater distance than the inside rear wheel. To allow this to happen, the driver must create less traction for the inside wheel allowing it to "slip" somewhat. This allows it to travel a shorter distance than the outside wheel. This happens even though both wheels are still turning at the same speed.

- 1. For normal turns, use the following technique:
 - A. Move body weight forward and to the inside of the turn.
 - B. Turn the handlebars while looking in the direction of the turn.
- 2. For higher speeds/sharper turns, use the following technique:
 - A. Use the same technique for turning at low speeds but move the body weight farther toward the inside of the turn to maintain balance.
 - B. Natural turning forces (which can push the ATV to the outside of the turn) increase as speed or turn sharpness increases. This means leaning the body farther into the turn. This prevents the ATV from tipping or slipping to the outside of the turn.
 - C. If the ATV starts to tip or slip while turning, lean farther into the turn while gradually reducing the throttle and making the turn wider.

SKIDDING OR SLIDING

A WARNING

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

Reference Warning on page 29.

To overcome skidding or sliding when not braking, use the following technique:

1. If the front wheels skid, gain front wheel traction by reducing the throttle and leaning slightly forward.

- 2. If the rear wheels skid, steer in the direction of the skid. Shift body weight away from the skid slightly.
- 3. Avoid using the throttle or brakes until directional control of the ATV is regained.

OPERATION ON HILLS

A WARNING

Never operate the ATV on hills too steep for the ATV or for operator abilities. Practice on smaller hills before trying larger hills.

4

Reference Warning on page 24.

Climbing a Hill

To climb a hill with the ATV, use the following technique:

A WARNING

The maximum hill angle is 25°.

- 1. Speed up slightly and maintain a steady speed when approaching the hill. Drive at a steady speed all the way to the top of the hill.
- 2. Shift body weight forward by sliding forward on the seat and leaning slightly forward. For steep hills, stand and lean out over the handlebars.
- 3. Slow down when approaching the top.
- 4. If unable to make it to the top of the hill and if terrain allows, turn around on the hill before losing forward speed. Lean body weight uphill.
- 5. If the ATV loses forward movement or begins to roll backwards, lean farther forward uphill and apply the hand brake to stop the ATV. Never apply the auxiliary brake if the ATV has begun to roll backwards. After coming to a complete stop, follow the K-turn procedure.

Descending a Hill

To descend a hill with the ATV, use the following technique:

- 1. Check the terrain carefully for any obstacles before starting down the hill.
- 2. Point the ATV straight downhill.
- 3. Transfer body weight to the rear by sliding back on the seat.
- 4. Shift the transmission into a low gear, thus using the transmission to aid the braking procedure during descent, and drive down the hill slowly with the throttle released.

A WARNING

Do not shift the transmission into neutral or use a high gear when descending a hill. Use a low gear only.

Reference Warning on page 26.

- 5. Apply the brake lever carefully to control downhill speed.
- 6. Avoid going down a hill at an angle that would cause the ATV to lean sharply to one side. Go straight down a hill whenever possible.

Traversing a Slope

To traverse a slope with the ATV, use the following technique:

- 1. Lean uphill.
- 2. Steer slightly uphill, if necessary, to maintain a straight course.

DRIVING OVER OBSTACLES

If an obstacle cannot be avoided, use the following technique:

- 1. With the obstacle straight in front, approach at a slow speed.
- 2. Rise slightly on the footrests.
- 3. Apply a little throttle as the front wheels reach the obstacle.
- 4. Lean forward and release the throttle after the front wheels have cleared the obstacle.
- 5. Return to normal driving position after the rear wheels clear the obstacle.
- ■NOTE: Some obstacles are too high for an ATV or for operator abilities. If not sure about safely crossing an obstacle, find a new drivable path.

DRIVING THROUGH WATER

A WARNING

Operating this ATV through deep or fast-flowing water can be hazardous.

Reference Warning on page 30.

- ■NOTE: Wet brakes may reduce stopping capability. Test both brake systems after leaving the water. If necessary, apply them several times to let friction dry out the pads.
- 1. Park the ATV and inspect the stream to find a suitable spot for crossing.
- 2. Make sure water is not any deeper than the bottom of the footrests and is not flowing fast.

A WARNING

Do not attempt to traverse water higher than the bottom of the footrests.

- 3. Select a spot where the banks are gently sloped on both sides and the bottom of the stream is firm.
- 4. Drive the ATV at a slow, steady speed. Be careful not to damage banks when entering and exiting the water.

DRIVING IN COLD WEATHER

- NOTE: Check that all control levers move freely. Make sure that the footrests, shift lever, and auxiliary brake pedal are free of ice and snow.
- 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.
- 3. If the brakes are frozen, take the ATV to a warmer area to thaw out the brakes.

A WARNING

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

A CAUTION

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

- NOTE: After the brakes thaw, dry them by applying them several times while riding slowly.
- NOTE: After riding through water, mud, snow, or slush, it is important to dry both brake systems before parking the ATV.

DRIVING ON SNOW AND ICE

A 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.

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

DRIVING IN REVERSE

A WARNING

When selecting reverse gear, make sure there are no obstacles or people behind. When it is safe, back up slowly.

- 1. Stop the vehicle and shift into neutral.
- 2. Compress the hand brake lever and move the reverse lever fully rearward.
- 3. Check to make sure there is nothing behind.
- 4. Slowly release the hand brake lever and apply the throttle.

A WARNING

When driving in reverse, go slowly and turn carefully.

GENERAL MAINTENANCE

■ NOTE: Proper maintenance of the ATV is important for optimum performance. Follow the Maintenance Schedule, Periodic Maintenance Checklist, and all ensuing Maintenance Instructions/Information.

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

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

■NOTE: The following instructions and information refer to specific items in the maintenance and care of the ATV.

MA	INTE	NAI	NCE SCHED	ULE		
Item	Page	•	Every 100 miles (200 km) or 1 month	Every 600 miles (1000 km) or 3 months	Every 1200 miles (2000 km) or 6 months	
Battery	108	t	1	3	E	
* Engine nuts and cap screws	200 5	1		=	J.	
* Valve clearance	-	1	=	1	-	
	109	1		I	1	
Spark Plug	109		Replace every 4000 miles (6000 km) or 18 months			
Cooling System	91	1		1	1	
Idle Speed	110	1	S==	V	1	
Throttle cable	111	É	1	1	Į.	
	111	1	=	I	I	
Fuel/coolant hoses	111		Re	Replace every 2 years		
Engine/transmission oil and filter	104	R	n'==	R	-	
Air filter/foam wrap	111	I.	1	1	1	
Gear oil	105	I.	1		1	
(Differential - front and rear)	105		Replace every 4 years			
Spark arrester	114	-	_	Ç	С	
Tires/air pressure	112	1	Inspect every time before riding		re riding	
* Brake components	106	1	1		1	
	106	1	1	ı	1	
Brake fluid	106		*Replace every 2 years			
	106	1		1	1	
Brake hose	106		*Replace every 4 years			
* Steering	-	1	16	1	1	
* Suspension	==	1		-/-	1	
* Chassis nuts and cap screws	-	1	t)	Т	J	

I = Inspect and clean, adjust, lubricate, replace as necessary T = Tighten R = Replace C = Clean

T = Tighten R = Replace
= Dealer Maintenance
= Initial Service (After Break-In)

GENERAL LUBRICATION

Cables

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

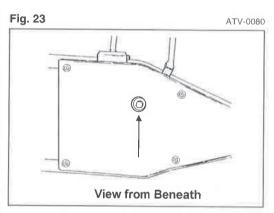
Engine/Transmission Oil and Filter

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

- 1. Park the ATV on level ground.
- 2. Remove the oil filler plug. Be careful not to allow contaminates 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 box-end wrench),

Fig. 22

Filler Plug



socket or box-end wrench), remove the old oil filter and dispose of properly. Do not re-use oil filter.

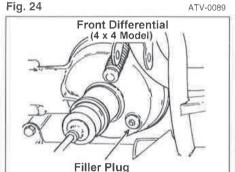
■ NOTE: Clean up any excess oil after removing the filter.

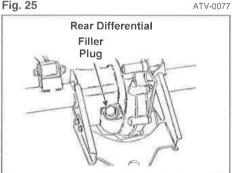
- 6. Apply oil to the new filter O-ring and check to make sure it is positioned correctly; then install the new oil filter. Tighten securely.
- 7. Install the oil filter drain plug and tighten securely.
- 8. Install the engine drain plug and tighten it securely. Pour 3.4 L (3.5 U.S. qt) of the recommended 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 the oil level in the engine oil inspection window. The oil level should be visible through the window. If oil is not visible, add recommended oil until the oil level is visible at any point within the window.
- 11. Inspect the area around the drain plug and oil filter for leaks.

Front and Rear Differential Gear Oil

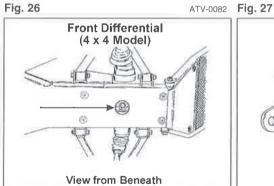
Inspect and change the gear oil in each differential according to the Maintenance Schedule. When changing the gear oil, use approved SAE 80W-90 hypoid gear oil. To change gear oil, use the following procedure:

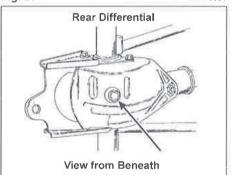
- 1. Place the ATV on level ground.
- 2. Remove each oil filler plug.





3. Drain the oil into a drain pan by removing in turn the drain plug from the bottom of each differential case.





4. After all the oil has been drained, install the drain plugs and tighten securely.

△ CAUTION

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

- 5. Pour recommended oil into each filler hole until the oil level reaches the bottom of the oil filler hole.
- 6. Install the filler plugs.

ATV-0081

HYDRAULIC BRAKES

A WARNING

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

Brake Fluid

Check the brake fluid level in the brake fluid reservoir. If the level in the reservoir is below the lower mark, add D.O.T. 3 brake fluid.

Max.
Min.

A CAUTION

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

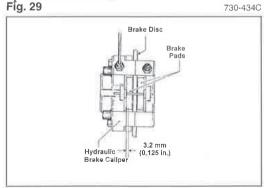
Brake Hoses

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

Brake Pads

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

- 1. Remove a front wheel.
- 2. Measure the thickness of each brake pad.
- 3. If thickness of either brake pad is less than 3.2 mm (0.125 in.), take the ATV to an authorized Arctco Arctic Cat ATV dealer to have brake pads replaced. Install the wheel and tighten lug bolts to 5.5 kg-m (40 ft-lb).

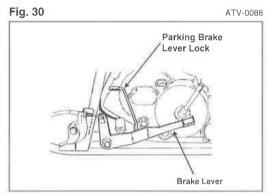


AUXILIARY BRAKE

The auxiliary brake must be maintained to be fully functional as a parking brake.

To check parking brake for proper operation, use the following procedure.

- ■NOTE: Before checking the auxiliary brake for proper adjustment, make sure the cable end is properly positioned in the clevis of the brake arm (see Fig. 31).
- 1. Press the auxiliary brake pedal and engage the parking brake lever lock.
- 2. With the engine off, transmission in neutral, and the reverse lever in the forward position, attempt to push the ATV.
- 3. If the parking has locked the rear wheels, it is adjusted properly.



4. If the parking brake does not lock the rear wheels, it must be adjusted (set up).

To adjust (set up) the parking brake, use the following procedure.

■ NOTE: The parking brake must be DISENGAGED for this procedure.

- 1. Loosen the adjuster bolt jam nut at the brake caliper.
- 2. Turn the adjuster bolt clockwise until it is snug (finger tight) and the brake pad is against the brake disc; then turn it counterclockwise 1/8 turn.

■ NOTE: If the adjustment bolt will not turn using the fingers (because of dirty

Cable Clevis

Jam
Nut

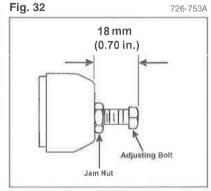
Adjuster
Bolt

threads), use a wrench to loosen the bolt; then using the fingers, adjust the bolt until it is finger tight.

A CAUTION

Do not use a wrench to tighten the adjuster bolt. Damage to the caliper or the brake pad will occur.

- 3. Tighten the adjuster bolt jam nut to secure the adjustment.
- 4. Perform steps 1 and 2 of the checking procedure to ensure proper parking brake operation.
- ■NOTE: After each adjustment of the parking brake, check the distance from the outside surface of the adjuster bolt head to the caliper. If the measurement is less than 18 mm (0.70 in.), the auxiliary brake pads must be replaced. Take the ATV to an authorized Arctco Arctic Cat ATV dealer for this service.



BATTERY

The battery is located under the seat.

The level of the battery fluid must be kept between the MAX and MIN level lines at all times. If the level drops below the MIN level line, add only **distilled water** until it reaches MAX level line.

A WARNING

Battery acid is harmful if it contacts eyes, skin, or clothing. Care must be taken whenever handling a battery.

If the battery is discharged, remove the battery from the ATV and charge the battery at the standard charging rate of 1.4A x 10 hour.

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

A 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. Make sure battery venting is not obstructed.

- 1. Remove the seat assembly; then remove the battery hold-down bracket.
- 2. Remove the negative battery cable; then remove the positive cable and the battery vent tube. Remove the battery from the ATV. Care should be taken not to damage the vent tube.

A WARNING

Avoid spillage and contact with skin, eyes, and clothing.

A CAUTION

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

- 3. Remove the vent plugs; then (if necessary) fill the battery with **distilled** water to the MAX level indicated on the battery.
- 4. Trickle charge the battery at 1.4 amps for 10 hours.

A CAUTION

Never exceed the standard charging rate.

5. After charging, check fluid level and fill with **distilled water** as necessary; then install vent plugs.

A CAUTION

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

- 6. Place the battery into position in the ATV and secure with the hold-down bracket.
- 7. Attach the vent tube and check the vent tube to make sure it is not crimped or obstructed in any way and that it is properly routed through and secured to the frame.
- 8. 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.

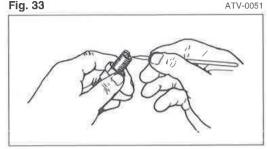
SPARK PLUG

This ATV comes equipped with an NGK CR8E 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.

■ NOTE: If excessive spark plug fouling is experienced due to cool weather or low speed, low RPM, stop/start operation, Arctco recommends the installation of an NGK CR7E spark plug.

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.



ATV-0051

Adjust the gap to 0.7 - 0.8 mm (0.028 - 0.032 in.) 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

Fig. 34 ATV-0052 0.7-0.8 mm (0.028-0.032 in.)

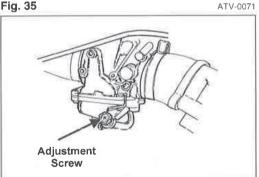
the washer contacts the cylinder head.

ENGINE IDLE ADJUSTMENT

To properly adjust the idle, a Fig. 35 tachometer is necessary. If one is not available, take the ATV to an authorized Arctco Arctic Cat ATV dealer

To adjust idle RPM:

- 1. Start the engine and warm it up to normal operating temperature.
- 2. Turn the throttle stop screw in or out until the engine idles at 1400 - 1600 RPM.



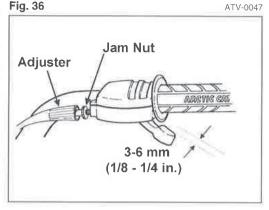
WARNING

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 free-play:

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



GAS/VENT HOSE

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.

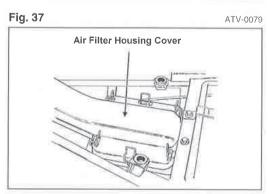
AIR FILTER

The two-part 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.

A CAUTION

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

- 1. Remove the seat.
- 2. Remove the air filter housing cover from the retaining clips.
- 3. Loosen the clamp and remove the filter with foam wrap.
- 4. Remove the foam wrap from the filter.



- 5. Wash the polyester filter and the foam wrap with warm soapy water and rinse.
- 6. Allow the foam wrap to air dry thoroughly.
- 7. Either allow the polyester filter to air dry or blow dry using **low-pressure** compressed air. Direct the compressed air through the filter from the inside of the filter.

A CAUTION

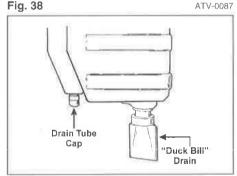
Do not put oil on either the filter or the foam wrap.

- 8. Place the foam wrap around the air filter; then install the filter with wrap into the air filter housing.
- 9. Place the filter in the air filter housing making sure it is properly in position and properly seated and secure with the clamp.
- 10. Install the air filter housing cover on the retaining clips; then install the seat making sure the seat is properly secured.

AIR FILTER HOUSING DRAIN TUBE

Periodically check the drain tube for gasoline or oil accumulation. If noticed, remove the drain tube cap from beneath the front housing, drain the gasoline or oil into a suitable container, and install and secure the tube cap.

Inspect "duck bill" drain beneath the main housing for debris and sealing.



TIRES

This ATV is equipped with low- pressure tubeless tires of the size and type listed below. Do not under any circumstances substitute tires of a different type or size.

	Front	Rear
Size	AT25 x 8-12★	AT25 x 10-12★

A WARNING

Always use the size and type of tires specified. Always maintain proper tire inflation pressure.

Reference Warning on page 31.

Tire Inflation Pressure

A low-pressure gauge is provided in the tool kit to measure the air pressure in the tires. Check the air pressure in all tires before each use of the vehicle.

LOAD	TIRE PRESSURE		
LOAD	FRONT	0.25 kg/cm2 (3.5 psi)	
4 x 4 Model Up to 227 kg (500 lbs)	0.28 kg/cm2 (4.0 psi)		
2 x 4 Model Up to 191 kg (420 lbs)	0.32 kg/cm2 (4.5 psi)	0.28 kg/cm2 (4.0 psi)	

Tire Tread Condition

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



A WARNING

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

Tire Replacement

This 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 Arctco Arctic Cat ATV dealer or a qualified tire repair station.

A CAUTION

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

A WARNING

Use only Arctco 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.

FRONT/REAR WHEEL REMOVAL

- 1. Park the ATV on level ground and set the parking brake.
- 2. Loosen the lug bolts on the wheel to be removed.
- 3. Elevate the ATV by placing a jack under the axle.
- 4. Remove the lug bolts.
- 5. Remove the wheel.
- 6. Install the wheel and install the lug bolts.
- 7. Tighten the bolts in a crisscross pattern to 5.5 kg-m (40 ft-lb).
- 8. Remove the jack.

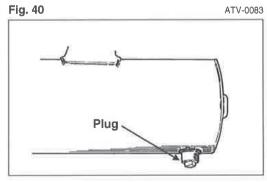
MUFFLER/SPARK ARRESTER

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

A WARNING

Wait until the muffler cools to avoid burns.

- 1. Elevate the front of the ATV on a safety stand until the muffler is horizontal.
- 2. Shift the transmission into neutral and set the parking brake.
- 3. Remove the plug from the bottom of the muffler.
- 4. Start the engine and increase RPM to "blow out" the accumulated carbon particles.
- 5. Stop the engine. Wait until the muffler cools; then install the plug and tighten securely.



LIGHT BULB REPLACEMENT

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

Headlight	12V/35W
Taillight/Brakelight	12V/5W

A CAUTION

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

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.

To replace the headlight bulb, use the following procedure:

- 1. Remove the machine screw from beneath the headlight housing; then remove the lens cover.
- NOTE: It may be necessary to carefully pull a certain amount of wiring harness slack through the housing for socket removal.
- 2. Push in on the wiring harness socket and turn it counterclockwise to free the bulb; then remove the bulb.
- 3. Place the new bulb into position making sure the tab on the bulb base aligns with the recess in the housing.
- 4. Install the wiring harness socket making sure the tab in the socket aligns with its recess. Turn clockwise to lock socket in place.
- NOTE: If wiring harness slack was established for removing the socket, carefully pull the wiring harness back through the housing.
- 5. Place the headlight into the housing and install the lens cover.
- 6. Install the machine screw and tighten until snug.

A 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.

Taillight

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

- 1. Remove the two screws and remove the lens cover.
- 2. Push the bulb in and turn it counterclockwise.
- 3. Install the new bulb by turning it clockwise while pushing in.
- 4. Install the lens cover.

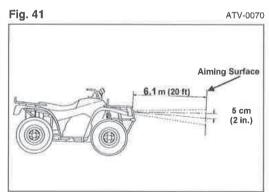
A CAUTION

Tighten the lens cover screws only until they are snug.

CHECKING/ADJUSTING HEADLIGHT AIM

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

- 1. Position the ATV on a level floor so the headlights are approximately 6.1 m (20 ft) from an aiming surface (wall or similar aiming surface).
- NOTE: There should be an average operating load on the ATV when adjusting the headlight aim.
- 2. Measure the distance from the floor to the mid-point of each headlight.
- 3. Using the measurements obtained in step 2, make horizontal marks on the aiming surface.
- 4. Make vertical marks which intersect the horizontal marks on the aiming surface directly in front of the headlights.
- 5. Switch on the lights. Make sure the HIGH beam is on. DO NOT USE LOW BEAM.
- 6. Observe each headlight beam aim. Proper aim is when the most intense beam is centered on the vertical mark 5 cm (2 in.) below the horizontal mark on the aiming surface.



- 7. Adjust each headlight until correct aim is obtained.
 - A. Horizontal Loosen the nut beneath the headlight mounting grommet; then adjust for proper aiming. Tighten the nut securely.
 - B. Vertical Loosen the nut on the side of the headlight housing; then adjust for proper aiming. Tighten the nut securely.

FUSES

The main (30 Amp) fuse is located on the frame near the right tire and protected by a snap-on cover.

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

The remaining fuses are located next to the battery under the seat. If there is any type of electrical system failure, always check the fuses first.

△ 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 Arctco Arctic Cat ATV dealer immediately.

ELECTRICAL OUTPUT TERMINALS

Two output terminals for electrical accessories (less than 180W) are located on the front and rear wiring harnesses. The accessory plug on the 4×4 model is located by the right front fender.

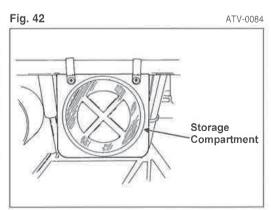
△ CAUTION

Always use electrical accessories less than 180W.

STORAGE COMPARTMENT/TOOLS

A basic tool kit is provided with the ATV. It is located in the battery storage area and can be accessed by removing the seat. The tool kit is secured beneath the battery hold-down strap.

Maintain the tool kit with the ATV at all times.



PREPARATION FOR STORAGE

A CAUTION

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

Arctco recommends the following procedure to prepare the ATV for storage. An authorized Arctco 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 Arctco 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.

A CAUTION

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

- 4. Plug the hole in the exhaust system with a clean cloth.
- 5. Apply light oil to the upper steering post bushing and plungers of the shock absorbers.
- 6. 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.
- 7. Fill the cooling system to the bottom of the stand pipe in the radiator neck with properly mixed coolant.
- 8. Clean the ATV thoroughly.
- 9. Store the ATV indoors in a level position.

A CAUTION

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

10. Disconnect the battery cables (negative cable first); then remove the battery, clean the battery posts and cables, and store in a clean, dry area.

PREPARATION AFTER STORAGE

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

- 1. Clean the ATV thoroughly.
- 2. Clean the engine. Remove the cloth from the exhaust system.
- 3. Check all control wires and cables for signs of wear or fraying. Replace if necessary.
- 4. Change the engine/transmission oil and filter.
- 5. Check the coolant level and add properly mixed coolant as necessary.
- 6. Charge the battery; then install. Connect the battery cables.
- 7. Check the entire brake systems (fluid level, pads, etc.), all controls, headlight, taillight, brakelight, and headlight aim; adjust or replace if necessary.
- 8. Check the tire pressure. Inflate to recommended settings 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 pre-start inspection.

LIMITED WARRANTY

Arctco, Inc. (hereinafter referred to as ARCTCO), extends a limited warranty on each new ARCTIC CAT ATV it manufactures and on each genuine ARCTCO part and accessory manufactured or sold by an authorized ARCTCO ARCTIC CAT ATV dealer. Warranty on ARCTIC CAT ATV's is extended to the original retail purchaser; however, the balance of the unused warranty may be transferred to a second party for a fee of \$25.00 (US funds).

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

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

The warranty periods are as follows:

- 1. Six months from the date of sale for ARCTIC CAT ATV's used for recreational purposes.
- 2. Six months from date of sale for batteries on full exchange basis.
- 3. Thirty days from date of sale for all dealer installed parts and accessories.
- 4. Until expiration of the new product warranty for all eligible replacement parts.

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

Tires CVJ Boots
Oil Filter Cables

Air Filter Torn or Punctured Upholstery
Brake Pads Cracks or Gouges in Body Panels

Light Bulbs Spark Plug

The following will VOID ARCTCO'S warranty:

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

In consideration of the foregoing, any implied warranty is limited in duration to the various warranty periods set forth. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or country to country. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

CHANGE OF ADDRESS, OWNERSHIP, OR WARRANTY TRANSFER

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

This form may also be used to transfer the unused portion of the original warranty to a second party. In order to transfer warranty, fill out this form completely; then return a copy of this form along with the original Arcticard and a check made out to Arctco, Inc. for the amount of \$25 (US funds). Arctco will then process the application and issue a new Arcticard for the balance of the time remaining of the original warranty.

Address Change

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Ownership Change				
Warranty Transfer				
CHANGE OF ADDRESS/OWNERSHIP				
Name				
Trume				
Address				
Year and Model ATV				
Vehicle Identification Number				

INDEX

Active Riding 46	Ignition Switch Key 78
Air Filter Housing Drain Tube 112	Introduction
Air Filter Housing Drain Tube 91	Light Bulb Replacement 115
Air Filter	Liquid Cooling System 91
Air Filter	Location of Parts and Controls 10
ATV Identification	Muffler/Spark Arrester 114
Auxiliary Brake	Operating Techniques 98
Basic Operating Maneuvers 46	Operating Instructions 92
Battery	Operation/Maintenance
Bearcat ATV Specifications	Operation on Hills 99
Brake Hoses	Operation Warnings
Brake Pads	Parts and Accessories 75
Brake Fluid	Personal Choices 69
Braking	Pre-Start Inspection 93
Break-In Procedure 90	Precautions 92
Cables	Preparation for Storage 118
Checking/Adjusting Headlight Aim 116	Preparation after Storage 119
Choke Lever	Prevention
Climbing a Hill	Quick Reference
Clothing and Gear	Rear Auxiliary Brake Pedal/ Parking
Condition of the ATV	Brake
Control Locations and Functions . 78	Recommended Gasoline
Descending a Hill	Recommended Engine/
Dimmer Switch	Transmission Oil 89
DIVISION II - PREFACE	Recommended Differential
Driving Over Obstacles	Lubricant
Driving On Snow and Ice	Reverse Shift Lever
Driving In Reverse	Safety Flag Bracket
Driving Through Water 100	Safety Section
Driving Through Water	Seat Lock
Electrical Output Terminals 117	Skidding or Sliding 98
Emergency Recoil Starter 84	
Emergency Starting	Sound Judgement 63 Spark Plug 109
Emergency Stop Switch 82	Speedometer/Indicator Lights
Engine Idle Adjustment	(4 x 4 Model only)
Engine/Transmission Oil and Filter 104	Starting Off and Shifting 96
Engine/Transmission Oil Level	Starting a Cold Engine
Inspection Window 85	Starting a Warm Engine 95
Equipment 68	Starting the Engine
Filling Gas Tank 89	Stopping the Engine
First Aid and Survival	Storage Compartment/Tools 117
Foreword 1	Supervision
Front/Rear Wheel Removal 114	Taillight
Front and Rear Differential	Taking Responsibility
Gear Oil	The Environment 65
Front and Rear Rack Loading 85	Those Around You 67
Fuses	Throttle Limiter Screw 83
Gas/Vent Hose	Throttle Cable Adjustment 111
Gas Tank Cap/Gauge	Throttle Lever 82
Gas Tank Valve 83	Tips 60
Gasoline-Oil-Lubricant 88	Tire Replacement
Gearshift Pedal 81	Tire Tread Condition
General Maintenance	Tire Inflation Pressure 113
General Information	Tires112
General Lubrication	Trailering and Towing
Hand Brake 81	Transporting ATV 88
Hang Tags & Warning Information 7	Traversing a Slope 100
Headlight115	Tubeless Tire Repair 114
How to Handle the ATV	Turning
(Active Riding) 49	Two-Speed Range Lever
Hydraulic Brakes	(4 x 4 Model only) 80
Ignition Switch	Vehicle Warning Labels

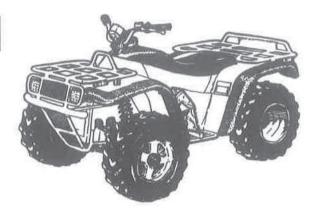
122

NOTES

NOTES

WARNING

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





1. KEY IDENTIFICATION NUMBER:

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

2. VEHICLE IDENTIFICATION NUMBER:

3. ENGINE SERIAL NUMBER:

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



THIS VEHICLE 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.

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

- BEFORE YOU OPERATE THIS ATV, READ THE OPERATOR'S MANUAL AND ALL LABELS.
- NEVER OPERATE THIS ATV WITHOUT PROPER INSTRUCTION.
 Beginners should complete a certified training course.
- NEVER CARRY A PASSENGER. You increase your risk of losing control if you carry a passenger.
- NEVER OPERATE THIS ATV ON PAVED SURFACES. You increase your risk of losing control if you operate this ATV on pavement.
- NEVER OPERATE THIS ATV ON PUBLIC ROADS. You can collide
 with another vehicle if you operate the ATV on a public road.
- ALWAYS WEAR AN APPROVED MOTORCYCLE HELMET, eye protection, and protective clothing.
- NEVER CONSUME ALCOHOL OR DRUGS before or while operating this ATV.
- NEVER OPERATE THIS ATV AT EXCESSIVE SPEEDS. You
 increase your risk of losing control if you operate this ATV at speeds
 too fast for the terrain, visibility conditions, or your experience.
- NEVER ATTEMPT WHEELIES, JUMPS, OR OTHER STUNTS.

Dealer Imprint			