

INHALTSVERZEICHNIS

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OWNER/VEHICLE

SURNAME	
NAME	
ZIP/CITY	
Street/Nr	
Vehicle model	
Chassis number	
Engine number	
Key number	
Purchase date	
Dealer	

Dealer	Vehicle owner
_____ Unterschrift u. Stempel des Händlers	
_____ Dealer's signature and stamp	

INTRODUCTION

Congratulations for purchasing a high quality All-Terrain-Vehicle (ATV) by ACE. Be sure, as the owner/operator of the ATV to become thoroughly familiar with its basic operation, maintenance and storage procedures. Carefully read the Operator's Manual before starting your ATV.

Particularly important information is distinguished in this manual by the notations „Warning, Caution and Note“. **!! WARNING !!** refers to the safety of ATV operators, bystanders or persons inspecting or repairing the ATV. Please follow exactly the instructions in order not to endanger your health or even your life. **!! CAUTION !!** indicates special precautions that must be taken to avoid damage to the ATV. ■ **NOTE** provides key information to make procedures easier or more clear.

This booklet contains instructions on how to start and operate the ATV as well as some important information on how to store it in the season break. For bigger repairs and service please contact an authorized ACE ATV dealer.

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

This ACE 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 please contact the warranty service of the company ACE Trade AG, Industriestraße 43, 5600 ST. JOHANN/PG., to ensure a proper registration. This manual was prepared by the service department of ACE.

PARTS AND ACCESSORIES

When in need of replacement parts, oil or accessories for your ACE ATV, be sure to use only GENUINE ACE PARTS, OIL AND ACCESSORIES. Only genuine ACE parts, oil and accessories are engineered to meet the standards and requirements of your ACE ATV. For a complete list of accessories refer to the current ACE ATV Accessory Catalog. Your ACE ATV dealer will be pleased to aid you in service and maintenance procedures.

TECHNICAL DATA ARCTIC CAT DVX 400

Engine and Drive	400
Type	Four Cycle/Liquid Cooled
Bore x Stroke	90x62,6 mm
Displacement	398 ccm
Ignition type	NGK CR7E
Spark Plug Gap	0,7 – 0,8 mm
Brake Type	Hydraulic Foot brake; Hydraulic Parking brake
Carburetor Type	Mikuni BSR 36
Chassis	2x4
Length (Overall)	183 cm
Height (Overall)	116 cm
Width (Overall)	116,5 cm
Suspension Travel (Front)	21,6 cm
Suspension Travel (Rear)	22,7 cm
Wheelbase	124,5 cm
Front Tire Size	22x7-10
Rear Tire Size	20x10-9
Tire Inflation Pressure	0,6-0,8 (according to load and route)
Miscellany	2x4
Dry Weight	169 kg
Gas Tank Capacity	10 l
Reserve Capacity	1 l
Coolant Capacity	1,2 l
Taillight/Brake light	12V/5W/21W
Engine Oil Capacity	2,1 l
Gasoline (Recommended)	87 Octane Regular Unleaded (EU: Regular Gasoline 91 oct.)
Engine Oil (Recomm.)	SAE 10W-40
Headlight	12V/55W/55
Starting System	Electric

LOCATION OF PARTS AND CONTROLS

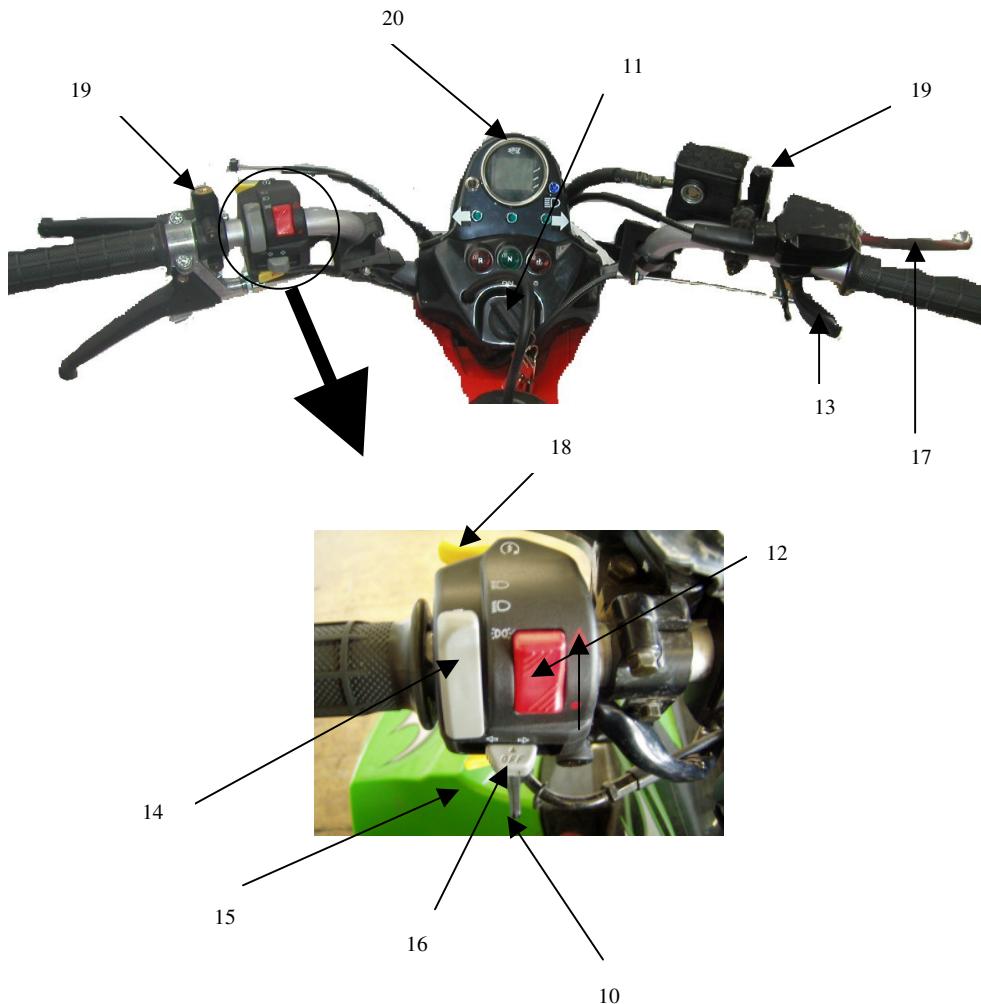
MODEL DVX 400



1. Tool storage (under the seat)
2. Reverse lever
3. Gearshift Pedal
4. Battery (under the seat)
5. Fuel valve



6. Seat Lock
7. Foot Brake Pedal (main brake)
8. Parking Brake
9. Taillight/Brake Light/Registration number



10. Choke Lever	16. Blinker left and right side
11. Ignition switch (with key)	17. Hand Brake Lever (main brake)
12. Hazard Warning Lights	18. E-Starter
13. Throttle Control	19. Mirrors
14. Low beam/full beam	20. Speedometer
15. Horn	

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

■ Note: The engine is turned off with the ignition key .

OPERATOR'S MANUAL

Precautionary measures

The more you familiarize with the operation of your vehicle, the better you can handle it.

Always wear protective clothing: Helmet, goggles, long-sleeved shirt, long pants and boots with low heels and a good tread which prevents you from slipping.

!! ATTENTION !!

Beginning and inexperienced ATV riders should take a rider training course in occasion of which they obtain or reinforce riding skills and get to know some operating techniques. For further information please contact an authorized ACE ATV-dealer.

Check before starting

!! ATTENTION !!

Always inspect this ATV each time you use it to make sure it is in safe operating conditions. Use the checklist you'll find at the next page.

ATV-CHECKLIST

PARTS	WHAT TO CHECK
Steering system	Turn the handlebars completely to the right/left – there must be no resistance. All parts of the steering system must be properly fixed. No play is allowed and steering has to move freely.
Brakes	Check the brake fluid level. Push the hydraulic brake lever several times. Check the lever for tightness and maneuverability. Test the parking brake: The wheels must lock when the parking brake is engaged. Check the brake linings for signs of wear
Tire Pressure	Make sure that each tire has the right pressure. Check the state of the tires: tread (at least 3mm).
Fuel	Check the fuel level in the tank and the fuel pipes. Make sure that the filler cap is closed
Lights	Inspect all lights (full beam and low beam light)
Engine Oil	Start the engine and let it run for a few minutes. Stop the engine and control the oil level with the oil level stick. The oil level should be between the two marks (low/full).
Throttle	Push the throttle control several times and check if it returns easily and rapidly into its original position (there should be some play).
Gearshift Pedal and Reverse Lever	Inspect the gearshift pedal and make sure that you can shift into all gears without problems. Examine the reverse lever and see if it moves freely and engages properly.

Starting the engine

Follow these steps to start it up:

1. Inspect the vehicle following the check list
2. Test the hydraulic brake system by pushing the pedal several times.
3. Engage the parking brake.

!! ATTENTION !!

Never start the vehicle if the brake systems don't work properly (if the brake lever is loose, if there's not enough brake liquid or the parking brake does not lock the wheels). Your personal safety depends on the functionality of the brake systems.

THE PARKING BRAKE MAY GET LOOSE, IF IT IS ACTIVATED FOR A LONGER PERIOD OF TIME: DON'T PARK THE VEHICLE LONGER THAN AN HOUR IN A STEEP TERRAIN WITH THE PARKING BRAKE ENGAGED.

1. Test the throttle control by pushing it several times. It must return immediately and completely into its original position.

!! ATTENTION !!

If the throttle control doesn't work properly the vehicle should not be started.

4. Shift the transmission into neutral.
5. Rotate the ignition key to the O-position.
6. Turn on the gas tank valve and follow the further steps:

Starting a cold engine

If the outdoor temperature is below + 5 °C

!! ATTENTION !!

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

1. Move the choke lever until it is engaged (you'll feel a light pressure). Push the E-starter button at the right of the throttle control.

!! CAUTION !!

Don't push the E-starter button longer than 30 seconds.

2. Don't push the E-starter button longer than 30 seconds.

If the outdoor temperature is + 5 °C or more:

1. Move the choke lever half way and press the E-starter button.
2. Once the engine is warmed up, return the choke lever.

!! CAUTION !!

It is extremely important to warm up the engine before raising the RPM. The engine should be left in the idle position for at least 3 – 4 minutes before you accelerate more than half way. In case of extremely low temperatures, the time needed for warming up increases. If you don't warm up the engine sufficiently, there could occur damages which are excluded of warranty.

Starting a warm engine

If the engine is already warm, it is not necessary to use the choke. Accelerate slightly and press the E-starter button.

■ Note: If it is already warm, the engine is started without using the choke. If you use it still, starting is made more difficult by the gas/air mixture in high quantity.

Turning off the engine

To turn off the engine, rotate the ignition key to the OFF-position.

Shifting

1. Release the parking brake.

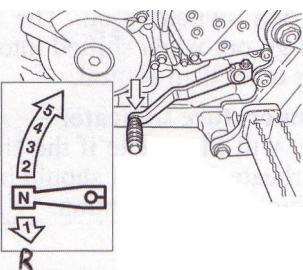
1. Push the brake pedal and press the rear of the gearshift pedal with your heel to shift into first gear. Release the hand brake, engage the clutch and gradually compress the throttle lever. Once you have reached the right velocity, engage second gear. Select third, fourth and fifth gear in succession by repeating this sequence.

2. Reduce speed by releasing the throttle, braking as necessary and shifting down to a lower gear. This is performed by pressing downward on the front of the gearshift pedal.

Shifting into reverse

Follow these steps:

1. Bring the ATV to a complete stop.
2. Shift the transmission into the first gear.
3. Move the reverse lever to the right and push down the gearshift pedal.



Braking

!! ATTENTION !!

Please note that new brake pads have to be prepared. Don't put yourself into situations that require an immediate braking unless the brake pads are working properly (this may result in serious accidents!).

When using the hydraulic brakes, you must be familiar with the following points:

- Note: Further information on how to maintain the hydraulic brake system can be found in the „General Maintenance“ booklet.
- 1. The brake fluid is the most important part of the system. Keep an eye on the right level. If there's some kind of dirt in the brake system or the brake fluid, the fluid has to be changed. (Impurities in the brake fluid lower the boiling point).
- 2. Never „ride“ the brake. Even maintaining minimal pressure on the brake lever will cause the brake pads to drag on the disc.
- 3. The footbrake is the main brake for the ATV.

!! ATTENTION !!

Excessive repetitive use of the hydraulic brake for high speed stops will cause overheating of the brake fluid and premature brake pad wear.

!! ATTENTION !!

Use only DOT 4 brake liquid. Don't use several types of brake liquids which may result in an unexpected loss of brakes. Before starting your ATV check the brake liquid level and the state of the brake pads.

3. In order to stop the vehicle, release the throttle control, push the brake pedal and shift into a lower gear.

!! CAUTION !!

Always come to a complete stop before attempting to shift from one range to the other or into reverse. Always shift on level ground. If this is not possible, engage the parking brake.

Parking

Please observe the following points:

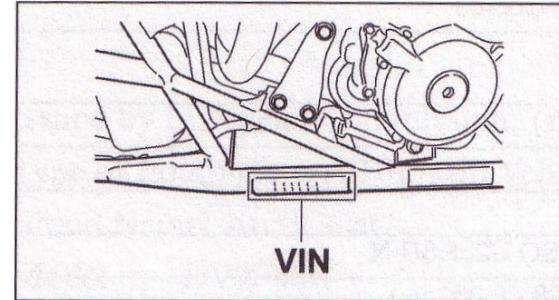
1. After the ATV stops, shift into neutral.
2. Turn off the engine.
3. Try to park only on level surfaces. If you have to park on a hill, shift the ATV into low gear.
4. Engage the parking brake.
5. Turn off the gas tank valve.

GENERAL INFORMATION

DVX- IDENTIFICATION NUMBERS

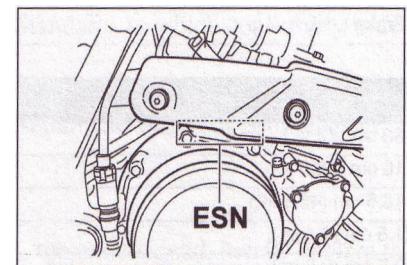
The Arctic Cat ATV has two identification numbers: Vehicle identification Number (VIN) and Engine Serial Number (ESN).

The Vehicle Identification Number is located on the right side of the frame.



The Engine Serial Number is located on the right side behind the exhaust pipe.

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



IGNITION SWITCH KEY

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

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

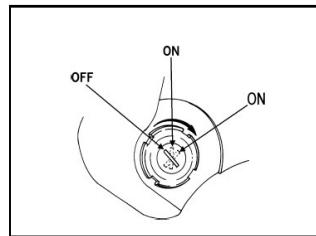


CONTROL LOCATIONS AND FUNCTIONS

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.



ON-Position: The ignition circuit is complete and the engine can run. The key cannot be removed in this position. The lights are off.

!! 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.

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

Speedometer/Indicator Lights

- 1. Speedometer:**
The speedometer shows approximate speed.
- 2. Odometer:** The odometer shows the total distance traveled.
- 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.
- 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

■ **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 oil cooler/radiator cooling fins can reduce cooling capability. Clean the engine and oil cooler/radiator to remove any debris preventing air flow.

- 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.

!! CAUTION !!

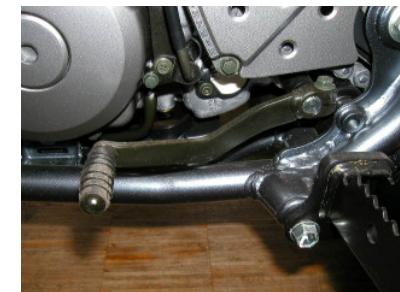
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A continuous use of the ATV with low oil pressure can cause engine damage or a premature wear of the engine.

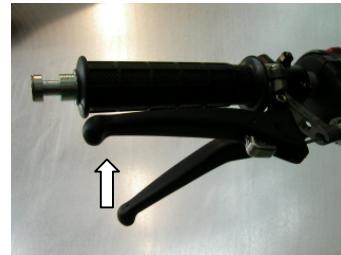
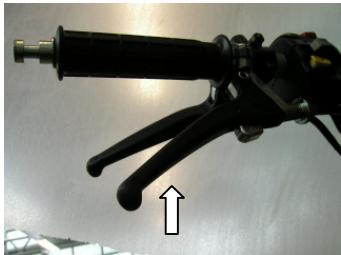
Gearshift Pedal

Your QUAD disposes of a 5-gear 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 the idling position, pull the clutch lever and activate the gearshift pedal until you have reached the idling position. Shift into first gear by pressing down on the front of the pedal. The other gears are reached by pulling up the pedal on the front side.



Parking brake

The parking brake should only be applied as an auxiliary brake. Whenever a braking situation is needed, use the foot brake. Engage the parking brake by pulling the brake lever upwards.



!! ATTENTION !!

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

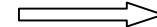
Light switch

Use the headlight HI/LO switch to select the high or low headlight beam when the ignition switch is in the LIGHTS position. The light switch has 2 positions: low beam, high beam.



Electric Starter Button

Pushing in on this button activates the starter motor. Before starting the engine, make sure the ignition switch is in the ON position, the transmission is in NEUTRAL, the reverse shift lever is in the forward position and the parking brake is engaged.



Choke Lever

The choke lever is used to help start a cold engine. Press the lever down fully to activate the choke. Return the lever to the full upright position to de-activate the choke. When the engine is already warm, it is not necessary to use the choke.

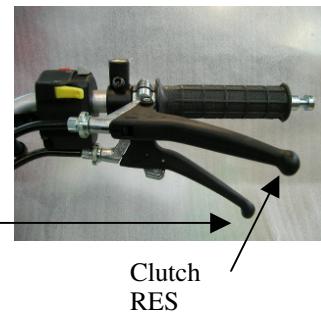
Throttle Lever

Control engine RPM with the position of the throttle lever. Operate this lever with the thumb. Pushing it forward increases engine RPM



Foot Brake Pedal

Pressing the foot brake pedal downward will apply the brake to the front and rear wheels.



Hand Brake Lever

Compressing the brake lever toward the handlebar will also apply the brake to the front and rear wheels.

Auxiliary brake lever

Clutch RES

Gas Tank Valve

The gas tank valve is incorporated in 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, 1 lt. will remain in the tank as a reserve quantity.

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



!! ATTENTION !!

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

Oil Level Stick

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

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

1. Unscrew the oil level stick and wipe it with a clean cloth.
2. Install the oil level stick without threading it in.
3. Remove the oil level stick; the engine oil level should be above the „L“ mark but not higher than the „F“ mark.

ATV-Transport

When transporting the ATV use the following procedure:

Engage the parking brake and place the transmission in first gear.

Turn the gas tank valve OFF.

Secure the ATV with load rated hold-down straps.



■ NOTE: Suitable hold-down straps are available from your Arctic Cat ATV dealer. Other straps are not recommended.

!! CAUTION !!

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

!! 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 (EU: 91 octane).

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.

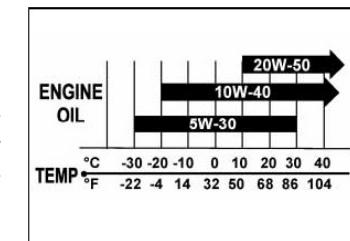
!! CAUTION !!

Never use gasoline with methanol additives, but only gasoline approved by ACE.

Recommended engine and transmission oil

The recommended oil to use in this ATV is an oil which is rated SE, SF or SG under API service classification.

These oils meet all of the lubrication requirements of the ACE ATV engine. The recommended engine oil viscosity is SAE 10W-40. Ambient temperature should determine the correct weight of oil. See the viscosity chart or an authorized ACE ATV dealer for details.



!! CAUTION !!

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

!! CAUTION !!

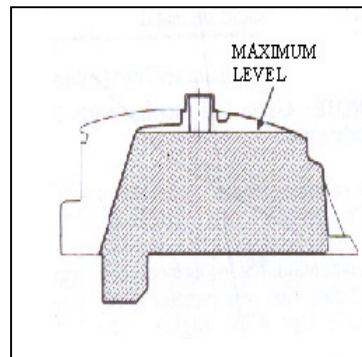
You should change the engine and transmission oil of your ATV every 2000km. Please respect in this regard the maintenance schedule in your service booklet.

Filling Gas Tank

!! ATTENTION !!

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

Since gasoline expands as its temperature increases, the gas tank must be filled to its rated capacity only. 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.



Tighten the gas tank cap securely after filling the tank.

!! ATTENTION !!

Do not overfill the gas tank.

BREAK-IN PROCEDURE

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

During the first 10 hours of operation, always use less than $\frac{1}{2}$ throttle. Varying the engine RPM during the break-in period aids the engine/transmission component mating process. 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, you should not use more than $\frac{1}{2}$ throttle. Short acceleration maneuvers and riding at different velocities provide an optimum break-in of the engine.

During the break-in period you must also burnish brake pads (hydraulic brake) to achieve full braking effectiveness. To properly burnish the brakes, use the following procedure:

1. Choose an area sufficiently large to safely accelerate ATV to 30 km/h.
2. Accelerate to 30 km/h. then compress foot brake to decelerate to 0-5 km/h.
3. Repeat procedure 20 times until brakes are burnished.

After having finished this procedure, follow the same steps to burnish the hand brake. Doing so, stabilizes the material and prolongs life of brake pads.

!! ATTENTION !!

Don't make sudden braking maneuvers, unless brake pads aren't 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. Your ACE ATV dealer will be pleased to do this initial service.

Air Filter

The air filter (including the foam element) must be kept clean to provide good engine power, a low gas consumption and a long life of the engine.

If operated in dusty, wet or muddy conditions, inspect and service the filter more frequently than under normal conditions.

!! CAUTION !!

Never use your ATV without air filter or foam element (danger of engine damage!).

Air Filter Housing Drain Tube

Periodically (weekly) check the drain tube for gasoline or oil accumulation.

!! ATTENTION !!

If necessary drain the gasoline or oil into a suitable container.

Shock absorbers

Each shock absorber should be visibly checked weekly for excessive fluid leakage, cracks or breaks in the lower case, or a bent shock rod. If any one of these conditions is detected, replacement is necessary. Contact your ACE ATV dealer.

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

Shock absorbers adjustment

!! CAUTION !!

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

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



GENERAL MAINTENANCE

■ NOTE: Proper maintenance of the ATV is important for optimum performance. Follow all given instructions.

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

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

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

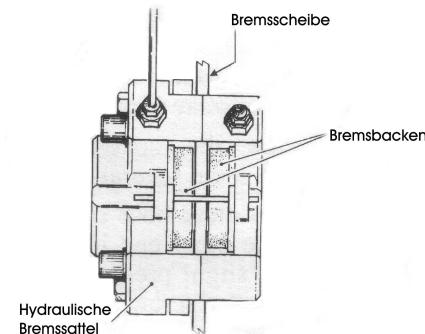
Change the engine oil and oil filter at the scheduled intervals. The engine should always be warm when the oil is changed so the oil will drain easily and completely.

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 plugs 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. Remove the old oil filter and dispose of properly. Do not re-use oil filter.
6. Apply oil to the new filter O-ring and check to make sure it is positioned correctly.; then install the new oil filter.
7. Install the oil filter drain plug and tighten securely
8. Install the engine drain plug and tighten it securely. Pour the recommended oil into the filter hole. Install filter plug.
9. Start the engine 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.
11. Inspect the area around the drain plug and oil filter for leaks.

Brake pads

The clearance between the brake pads and brake discs is adjusted automatically as the brake pads wear. Check the thickness of each of the brake pads as follows:

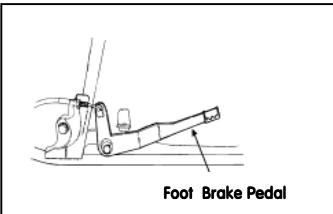
1. Remove a front wheel.
2. Measure the thickness of each brake pad.
3. If thickness of either brake pad is less than 2,0 mm (0.078 in.), have brake pads replaced. Install the wheel and tighten to 80-95 Nm.



Hydraulic Brake

The hydraulic brake must be properly maintained to be fully functional.

1. Press the foot brake pedal or the hand brake at the handlebars respectively.
2. With the engine off, transmission in neutral and the reverse lever in the forward position, attempt to move the ATV.
3. If the front and the rear wheels are locked, it is adjusted properly.
4. If the wheels are not locked, it must be adjusted (set up).



!! ATTENTION !!

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 DOT 4 brake fluid.



!! CAUTION !!

Be careful not to spill any fluid when filling the brake fluid reservoir. Wipe away spilled fluid immediately in order not to damage plastic parts.

!! CAUTION !!

When the right-hand jam nut cannot be loosened, both brake pads must be replaced. Take the ATV to an authorized ACE ATV dealer for this service.

Battery

The battery is located under the right rear fender. 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.

!! ATTENTION !!

When working on the battery, you have to be extremely careful in order to not get in contact with the battery acid.

If the battery is discharged, remove the battery from the ATV and charge the battery at the standard charging rate of 0,9 amps

!! ATTENTION !!

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.

To charge the battery, use the following procedure:

1. 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.

!! ATTENTION !!

Avoid contact with skin and eyes.

!! 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.
1. Charge the battery at 0,9 amps for 10 hours.

!! PRECAUTION !!

Never exceed the standard charging rate.

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

!! CAUTION !!

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

5. Place the battery into position in the ATV and secure with the hold-down bracket.
6. Attach the vent tube and check the vent tube to make sure it is not crimped and that it is properly secured to the frame.
7. Clean the battery posts and cable ends.
8. Connect cables to the proper terminals. Connect the negative cable last.

!! CAUTION !!

Be sure to connect the positive cable to the positive terminal and the negative cable to the negative terminal!

Spark plug

The ATV comes equipped with a specified spark plug (see technical data). 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. Take the ATV to an authorized ACE ATV dealer.

■ NOTE: If the spark plug fails prematurely due to cold outside temperature, low speed or low RPM, please contact your Arctic Cat ATV dealer.

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

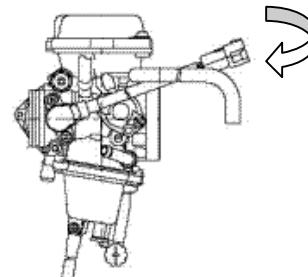
Adjust the gap for proper ignition. Use a feeler gauge to check the gap.

When installing the spark plug, be sure to tighten it securely. A new spark plug should be tightened $\frac{1}{2}$ turn once the washer contacts the cylinder head. A used plug should be tightened only $\frac{1}{8}$ – $\frac{1}{4}$ turn.

Engine Idle RPM Adjustment

To properly adjust the idle, a tachometer is necessary. If one is not available, take the ATV to an authorized ACE 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 the recommended RPM.



Engine Idle RPM : 1250-1350 U/Min

!! ATTENTION !!

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.
2. Slide the rubber boot away and turn the adjuster until the throttle lever has proper free-play of 3-6 mm.
3. Tighten the knurled nut against the throttle cable adjuster securely; then slide the rubber boot over the adjuster.



Carburetor Float Bowl

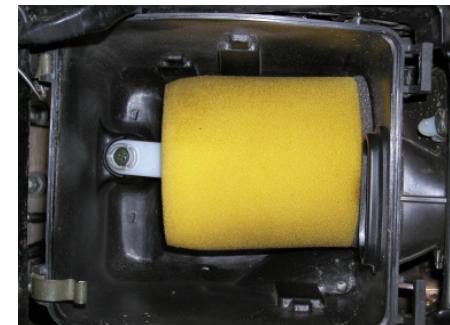
Periodically, the float bowl should be drained. Your ACE ATV dealer will do this service.

Gas/Vent Hoses

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



1. Remove the seat.
2. Remove the two machine screws securing the cover.
3. Pull the retainer out and remove the filter with the foam element.
4. Separate the foam element from the filter and clean both parts with soapy water.
5. Air-dry the element.
6. Put the foam element in a plastic bag and pour in some air filter cleaning solvent; then work the solvent into the element.
7. Slightly squeeze the element to remove excess solvent.
8. When the element is dry, put it into the filter.

!! CAUTION !!

Never put oil into the filter or the foam element.

9. Place the foam around the air filter and install the filter into the air filter housing. Make sure that the air filter is properly seated and secure with the retainer.
10. Install the cover and secure with the screws. Install the seat.

Air Filter Housing Drain Tube

Periodically check the drain tube for gasoline, oil or dirt accumulation.

Tires

The ATV has low-pressure tubeless tires. Below you'll find a list with the right tire sizes. Always use the size and type of tires as specified.

Vehicle type	Front	Rear
DVX	22x7-10	20x10-9

!! ATTENTION !!

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

Tire inflation pressure

In the tool set supplied with your ATV you'll find a barometer to measure the tire inflation pressure. Always check tire pressure before starting your ATV.

Type	Pressure	
	Front	Rear
Off-road tires	0,6-0,8 bar (according to load and route)	

Tire Tread Condition

min. 3mm

The use of worn-out tires on and ATV is very dangerous. A tire is considered to be worn out when the depth of the tread is less than 3mm. Please observe legal regulations of your country! Worn-out tires have to be replaced immediately!



!! ATTENTION !!

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

Tire Replacement

The ATV has low-pressure tubeless tires. Air is sealed by the contact surfaces of the inner wheel rim and the tire bead. If either the inner wheel rim or tire bead is damaged, air may leak. Be extremely careful not to damage these areas when replacing tires. If proper tools and related items are not available, have this maintenance performed by an authorized Arctic Cat ATV dealer.

!! CAUTION !!

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

Front/Rear Wheel Removal

1. Park the ATV on level ground and engage the parking brake.
2. Loosen the lug nuts.
3. Elevate the ATV by placing a jack under the axle.
4. Remove the lug nuts.
5. Remove the wheel.
6. Install the wheel and install the lug nuts.
7. Tighten the nuts to 80 Nm – 95 Nm
8. Remove the jack.

Headlight

■ NOTE: The bulb portion of the headlight is fragile. 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.

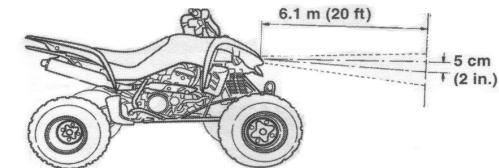
To replace the headlight bulb, use the following procedure:

1. Remove the sealing and the retainer.
2. Retract the bulb housing from the retainer and remove the bulb.
3. Install the new bulb.
4. Install the bulb housing in reverse order.

!! CAUTION !!

When replacing the headlight bulb, be careful not to touch the glass portion of the bulb. If the glass is touched, it must be cleaned with a dry cloth.

1. Measure the distance from the floor to the mid-point of each headlight.
2. Using the measurements obtained in step 2, make horizontal marks on the aiming surface.
3. Make vertical marks which intersect the horizontal marks on the aiming surface.
4. Switch on the lights. **MAKE SURE THE HIGH BEAM IS ON.**
5. Observe each headlight beam aim. Proper aim is when the most intense beam is centered on the vertical mark 5 cm below the horizontal mark on the aiming surface.
6. Adjust each headlight until correct aim is obtained.
7. Horizontal: Loosen the nut beside the sealing of the headlight retainer. Adjust proper aiming and tighten the nut securely.



Tail Light

To replace the taillight/brake light bulb, use the following procedure:

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

Adjusting Headlight Aim

The headlights can be adjusted horizontally (high beam/low beam). The geometric center of the HIGH beam light zone is to be used for vertical and horizontal aiming.

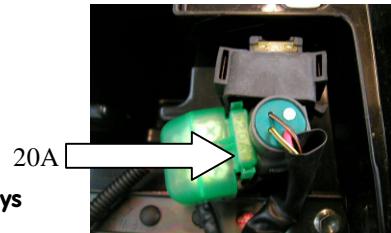
1. Position the ATV on a level floor so the headlights are approximately 6,1 m from an aiming surface (e.g. a wall).

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

Fuses

The fuses are located in front of the horn and the blinker-relay.

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



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 ACE ATV dealer immediately.

Tools

Under the seat of your ATV you'll find a basic tool kit. Maintain the tool kit with the ATV at all times.



PREPARATION FOR STORAGE

!! CAUTION !!

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

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

1. Clean the seat cushion with a damp cloth.
2. Clean the ATV thoroughly by washing dirt, oil, grass and other foreign matter from the entire ATV. DO NOT get water into any part of the engine or air intake. Allow the ATV to dry thoroughly.
3. Either drain the gas tank or add a fuel stabilizer to the gas in the gas tank. Remove the air filter. Start the engine and allow it to idle. Then using Arctic Cat Engine Preserver, rapidly inject the preserver into the air filter opening for a period of 10 to 20 seconds. Install the air filter.

!! CAUTION !!

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

4. Drain the carburetor float bowl.
5. Plug the hole in the exhaust system with a clean cloth.
6. Apply light oil to the upper steering post bushing and plungers of the shock absorbers.
7. Take care that all screws, nuts and holding components are tightened properly.
8. Clean the ATV thoroughly.
9. Disconnect the battery cables (negative cable first); then remove the battery, clean the battery posts and cables and store in a clean, dry area.
10. If possible, store the ATV indoors.

!! CAUTION !!

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

PREPARATION AFTER STORAGE

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

1. Clean the ATV thoroughly.
2. Clean the engine. Remove the cloth from the exhaust system.
3. Check all control wires and cables for signs of wear or fraying.
4. Change the engine/transmission oil and filter.
5. Charge the battery; then install. Connect the battery cables making sure to connect the positive cable first.
6. Check the entire brake system (fluid level, pads etc.), all controls, headlights, taillight, brake light and headlight aim.
7. Check the tire pressure.
8. Take care that all screws, nuts and holding components are tightened properly.
9. Make sure the steering moves freely and does not bind.
10. Check the spark plug. Clean or replace as necessary.

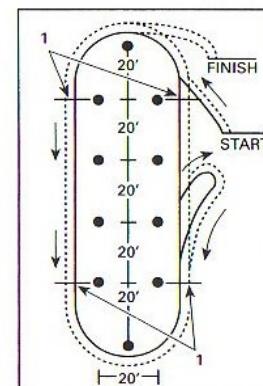
FOR YOUR SAFETY

Let your dealer demonstrate you the operating and riding maneuvers; then practice each maneuver. Learn the correct techniques.

Set up a riding course using traffic cones (approx. 6m wide by 30m long).

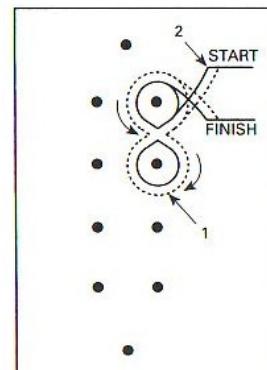
Also, have a few posts or lumber (at least 10cm in diameter) to use as obstacles to climb over.

1) Starting & Stopping



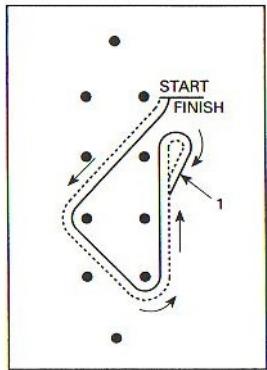
- Once around clockwise and back around counter-clockwise
- Stop and start while riding around course (1)

2) Turning Left & Right



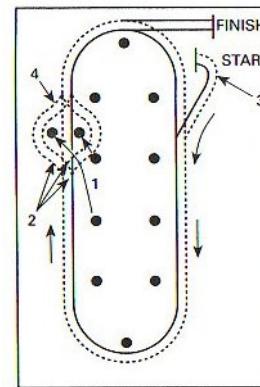
- Figure 8 using two of the cones
- Three laps

3) Sharp Turns



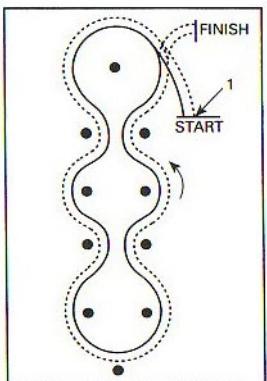
- Turns of less than 90 degrees
- Two laps clockwise, three laps counter-clockwise

5) Quick Turns



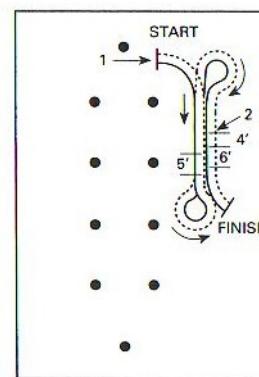
- Move two cones (1)
- Suddenly go left, right or straight (2)

4) Slalom Turns



- Turning in and out of the cones
- Three laps

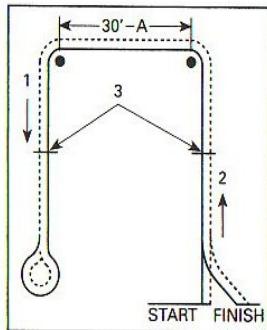
6) Crossing Obstacles



- Use posts or lumber at least 10cm in diameter (2)
- Cross once each with left, right and both wheels

ACTIVE RIDING

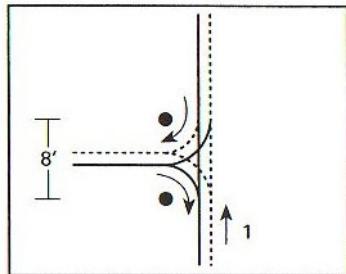
7) Traversing Hills



- Up (2) and down (1) hill (slope less than 25 degrees)
- Stop, start (3) and traverse (A) on hill

Practice this maneuver on flat land if a hill is not available

8) K-turns & U-turns



- Up and down hill
- U-turn on hill
- K-turn on hill

Practice this maneuver on flat land if a hill is not available

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

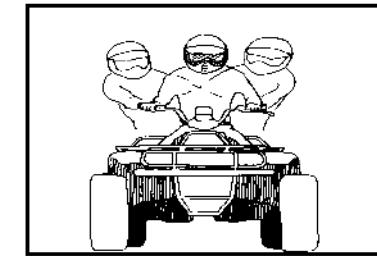
Statistics say that inexperienced riders are 13 times more likely to have an ATV accident than riders who have over 1 month of experience!

For this reason it is extremely advisable to take a rider training course! See your Arctic Cat ATV dealer for details.

Riding

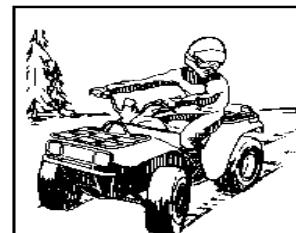
Once the engine's warm, the ATV is ready to go. Please observe the following points:

Keep your feet on the footrests and both hands on the handlebar. Hold the brake lever and release the parking brake. Shift into first gear. Release the brake slowly and apply the throttle with your thumb.



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 of the footrest. At the same time, lean your body to the inside of the turn. Pay attention to the handling – if you feel the tires coming off the ground, reduce speed, shift more of your body weight to the side that's lifting and make the turn wider if possible.

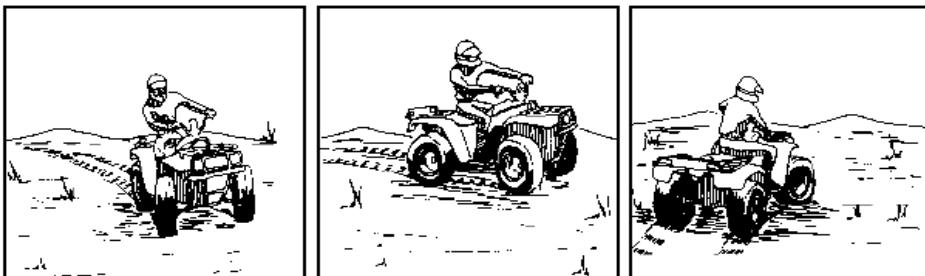


Wide Turns

About 20 % of ATV accidents happen during turns. For this reason be extremely careful in such a situation.

Use this method for wide turns:

1. As you approach the turn, slow down.
2. Shift your body weight to the inside of the turn.
3. Gradually increase your speed as you come out of the turn.



Sharp Turns

After mastering wide turns, practice the advanced skill of sharp turns. To make sharp turns, please observe the following steps:

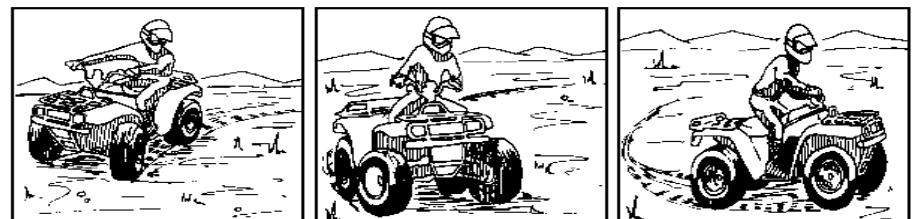
1. As you approach the turn, slow down.
2. Shift your body weight to the inside of the turn.
3. You might have to lean into the turn more than you do in a wide turn.
4. If shifting your weight and balance aren't enough to keep the ATV tires on the ground, slow down and straighten out the handlebars as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



Quick Turns

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

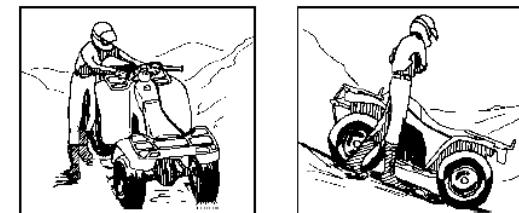
1. As you approach the turn, slow down.
2. Turn the handlebars and shift your body weight to the inside of the turn.
3. Follow this with slight acceleration.
4. To make your turn quicker, try raising yourself off the seat a little bit as you shift your weight.

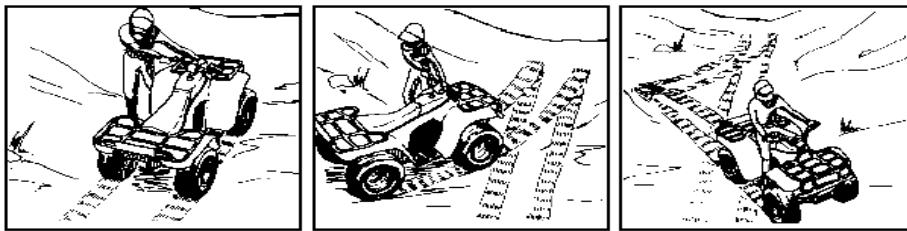


K-Turns

Use K-turns if you accidentally stall while riding uphill.

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





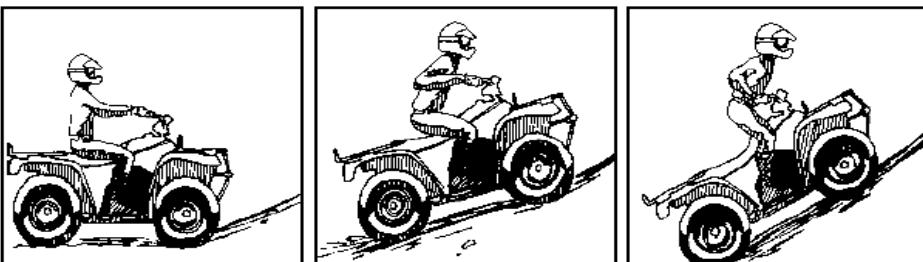
Riding Uphill

Roughly 20 % of accidents happen while riding on hills as a result of incorrect behaviour. So, use extreme caution and follow this method for riding uphill:

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

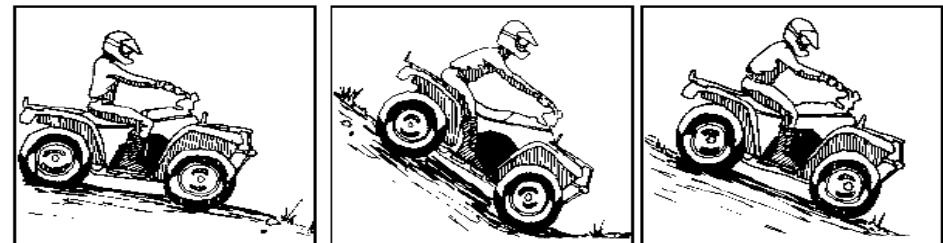
!! ATTENTION !!

Never climb hills with an angle of gradient higher than 25 %



Riding downhill

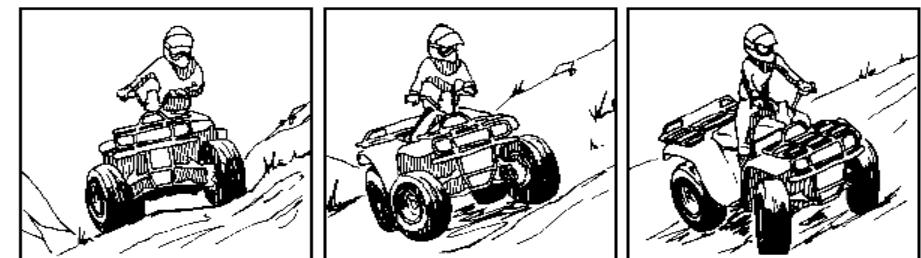
1. Shift your body weight as far back on the seat as possible.
2. Keep it in a low gear.
3. Lightly apply the brake and ease up on the throttle.



Sidehilling/Traversing

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

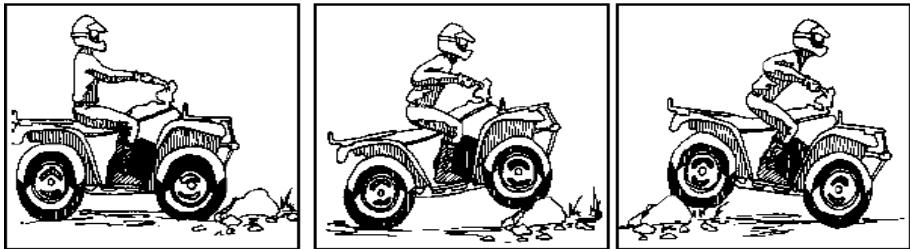
1. Keep your speed low and consistent.
2. Shift all your body weight to the uphill side of the seat; also, support your weight on the uphill footrest.
3. If the ATV feels like it's tipping, turn the handlebar downhill. If that's not possible because of the terrain or other conditions or if it just doesn't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



Crossing Obstacles

Crossing obstacles is risky. Avoid it if possible. Riding over logs and rocks means combining all the active riding skills into one big motion. These are general guidelines for overcoming obstacles:

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



Skidding or Sliding

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

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

Parking on a hill

1. Keep it in gear.
2. Engage the parking brake.
3. Shut off the gas tank valve.
4. Find something to block the rear tires

Crossing Water

Your ATV can only handle water up to its footrests. Any more than that and you risk engine damage. Stay away from fast moving rivers.

Please observe the following:

1. Examine the depth of the water and check for hidden obstacles like logs or rocks.
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 mud, try rocking the ATV from side to side.
5. Once you've cleared the water, briefly apply the brakes to make sure they work.

Driving in Cold Weather

■NOTE: Check that all control levers move freely. Make sure that they are free of ice and snow.

!! ATTENTION !!

For your personal safety, it is very important to wear enough warm clothing.

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

!! CAUTION !!

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

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

!! ATTENTION !!

Never attempt to free frozen brakes by pouring warm water on the brake pads and housings!

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

■NOTE: After riding through water, mud and snow, it is important to dry both brake systems before parking the ATV.

!! ATTENTION !!

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

4. Practice driving in an open snow-covered or ice-covered area before driving on ice-covered trails.
5. Learn how the ATV responds to steering and braking on an ice-covered terrain.

TROUBLESHOOTING

FAQ's

Problem	Solution
● Your vehicle cannot be started.	➤ Is the gas cock open? ➤ Is it necessary to use the choke? ➤ Is the battery attached or does it have to be recharged (for ex after a longer standstill)? ➤ Bring the gear lever into position „N“, or activate the hand brake lever when you have shifted into a gear.
● You cannot shift into reverse gear and/or you hear a roaring noise.	➤ Was the vehicle stopped completely before shifting? Be sure to have engaged the reverse gear!
● The lights (horn, blinker,...) do not work.	➤ Is the ignition key in the correct position? ➤ Examine the fuses in the fuse box.
● The engine stalls.	➤ Is the idling speed to low?
● The speedometer does not indicate the correct speed.	➤ Did you pay attention to the unit in which speed is indicated (km/h or mph)? ➤ Are magnets and sensors properly attached to your vehicle?
● Starting from a height of 1500m your vehicle may not have full output any more.	➤ Change the main jets of the carburetor.
● Can you use a high pressure cleaner for cleaning your vehicle?	➤ Generally yes. But do not direct the jet towards electrical parts (lights, fuses,...)

● What is important when purchasing accessories?

- Is it genuine Arctic Cat™ accessory?
- Was it built in by an authorized Arctic Cat™ dealer?
- Please also respect the legal regulations in your country.

■ Note: If you cannot remedy these problems with the suggested solutions and/or if there should arise other problems, please contact your ACE-dealer.

WARRANTY

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

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

ACE assumes the costs for all parts that are found to be warrantable. The repair work MUST be done by an authorized ACE ATV dealer. No transportation or rental charges (for rented vehicles) will be paid by ACE. The warranty is validated upon examination of said parts by ACE or an authorized ACE ATV dealer. ACE reserves the right to inspect such parts at its factory.

The warranty periods are as follows:

2. 24 months from date of sale – for ATVs.
3. 6 months from date of sale – for batteries.
4. 30 days from date of sale for all parts and accessories.

Excluded from this warranty are: normal clothes, abuse and the following parts subject to normal wear:

Tires	CV Joints	Oil Filter	Cables
Air Filter	Upholstery	Brake Pads	Body Panels
Light Bulbs	Spark Plug		

The following will VOID warranty:

1. Failure to perform the proper break-in procedure and all related maintenance and storage procedures.
2. Repair by anyone other than an authorized ACE ATV dealer.
3. Improper use.
4. Use of improper carburetor jets and other accessories.
5. Use of improper gasoline, lubricating oils or spark plug.
6. An accident or subjecting the ATV to misuse, abuse or negligent operation.
7. Modification or removal of parts (e.g. muffler, carburetor boot etc.) unless instructed to do so by ACE.

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 Chassis or Engine Number.
11. Use of parts not sold by ACE.
12. Damage due to improper transportation.
13. Failure to perform the prescribed service (1. Service after 500 km, 2. Service after 1500 km, 3. Service after 5000 km, afterwards every 5000 km or after 1 year respectively, it depends on what comes first).

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

WARRANTY CLAIMS

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

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

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

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

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

ACE will not warrant repairs required as a result of not performing standard operator maintenance, storage procedures and service as outlined in the Operator's Manual.

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

CHANGE OF ADDRESS, OWNERSHIP OR WARRANTY TRANSFER

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

This form may also be used to transfer the unused portion of the original warranty to a second party: Fill out this form completely and send it to ACE enclosing a copy of the vehicle registration certificate and an account-only cheque of the amount of EUR 25,-.

ACE will then process the application and issue a new vehicle certificate for the remaining period of the warranty claim.

ADDRESS CHANGE

OWNERSHIP CHANGE

A simple black rectangular frame with a thin border, designed to look like a piece of paper for drawing or writing on.

WARRANTY TRANSFER

1

CHANGE OF ADDRESS/OWNERSHIP/WARRANTY TRANSFER TO:

Name: _____

Address: _____

Construction year & Model: _____

Chassis Nr.: _____

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Errors and omissions excepted!

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

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