

FUEL

Make sure that there is sufficient fuel in the tank.

Engine oil

Make sure that the engine oil is at the specified level.
add oil as necessary.

Radiator

Check the cooling fluid level if your ATV is water cooled engine, add fluid if necessary.

If add cooling liquid to full, start engine idle speed running, The liquid level will decline, then add the liquid gradually to full.

Attention! The liquid must be anti freezing colling liquid.

Front and rear brakes

Brake lever and brake pedal

- Check that there is no free play in the brake lever.
If there is free play, have a dealer check the brake system.
- Check for correct brake pedal height. If the pedal height is incorrect, have a dealer adjust it.
- Check the operation of the lever and pedal. They should move smoothly and there should be a firm feeling when the brakes are applied. If not, have a dealer check the brake system.

Brake fluid level

Check the brake fluid level. Add fluid if necessary.

Brake fluid leakage

Check to see if any brake fluid is leaking out of the pipe joints or brake fluid reservoirs. Apply the brakes firmly for one minute. If there is any leakage, have a dealer check the brake system.

Brake operation

Test the brakes at slow speed after starting out to make sure they are working properly. If the brakes do not provide proper braking performance, check the brake pads for wear.

Throttle lever

Check the operation of the throttle lever. It must open smoothly and spring back to idle position when released. Have a dealer correct if necessary.

Drive chain

Check the condition of the drive chain and check the drive chain slack. Lubricate and adjust the drive chain as necessary.

Tires

Check tire pressure tire gauge to check and adjust tire pressure when the tires are cold. Tire pressures must be equal on both sides.

WARNING! Operation of this vehicle with improper tire pressure may cause severe injury or death from loss of control or rollover. Tire pressure below the minimum specified could also cause the tire to dislodge from the rim under severe riding conditions.

Set tire Pressures to the following specifications:

Recommended tire pressure:

Front

27.5 kPa (0.275 kgf/cm² , 4.0 psi)

Rear

27.5 kPa (0.275 kgf/cm² , 4.0 psi)

Minimum tire pressure:

Front

24.5 kPa (0.245 kgf/cm² , 3.6 psi)

Rear

24.5 kPa (0.245 kgf/cm² , 3.6 psi)

Maximum tire seating pressure:

Front

250 kPa (2.5 kgf/cm² , 36 psi)

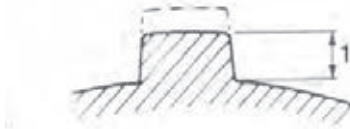
Rear

250 kPa (2.5 kgf/cm² , 36 psi)

The lower-pressure the gauge is included as standard equipment. Make two measurements of the tire pressure and use the second reading. Dust or dirt in the gauge could cause the first reading to be incorrect.

Tire wear limit

When the tire groove decreases to 3 mm (0.12 in) due to wear, replace the tire.



1. Tire wear limit

Tire information

This ATV is equipped with tubeless tires with valves.

WARNING

Use of improper tires on this ATV may cause loss of control, increasing your risk of an accident.

After extensive tests, only the tires listed below have been approved for this model.

Front:

Size:

AT20*7.0-10

Type:

Tubeless

Rear:

Size:

AT19*10-9

Type:

Tubeless

Chassis fasteners

Make sure that all nuts, bolts and screws are properly tightened.

Instruments, lights and switches

Check that all instruments, lights and switches are working properly. Correct if necessary.

Aftermarket tires and rims

The tires and rims that came with your ATV were designed to match the performance capabilities and to provide the best combination of handling, braking, and comfort. Other tires, rims, sizes, and combinations may not be appropriate.

OPERATION

Read the owner's Manual carefully before riding the ATV. If there is a control or function you do not understand, ask your dealer.

WARNING


Read the Owner's Manual carefully to become familiar with all controls in order to help prevent any loss of control, which could cause an accident or injury.

Starting a cold engine

NOTICE

See the “ Engine break-in” section prior to operating the engine for the first time.

1. Set the parking brake.
2. Turn the fuel cock to “ON”.
3. Turn the key to “ON” and the engine stop

Switch to “”.

4. Shift the transmission into neutral. The neutral Indicator light should come on. If the indicator lights does not come on, have a dealer check the electrical circuit.

TIP

This model is equipped with an ignition circuit cutoff system. The engine can be started under the following conditions.

- The transmission is in neutral
- The clutch is disengaged with the transmission in gear. However, it is recommended to shift into Neutral before starting the engine.

5. Completely close the throttle lever and start the engine by pushing the start switch.

TIP

If the engine fails to start, release the start switch, then push it again. Pause a few seconds before the next attempt. Each cranking should be as short as possible to preserve battery energy. Do not crank the engine more than 10 seconds on each attempt.

NOTICE

For maximum engine life, never accelerate hard when the engine is cold!

Starting a warm engine

Follow the same procedures as for starting a cold engine. Instead, start the engine with the throttle slightly open.

Shifting

This ATV has a 4-speed forward transmission. The transmission allows you to control the amount of power you have available at a given speed or for starting, accelerating, climbing hills, etc.

To shift into reverse, release the throttle lever, apply the clutch, and then repeatedly depress the shift pedal until it stops. When it stops, it will be in neutral position. Raise the pedal slightly to reach the first gear, and then release the clutch.



1. Shift pedal
2. Neutral position

To start out and accelerate

1. Release the throttle lever, apply the front or rear brake

NOTICE

Always close the throttle before shifting gears, otherwise damage to the engine and drive train may result.

2. Pull the clutch lever to disengage the clutch.
3. Shift into first gear, and then release the brake.
4. Open the throttle gradually and at the same time, release the clutch lever slowly.

WARNING! Opening the throttle abruptly or releasing the clutch lever too quickly could make the ATV wheelie, which would increase the change of an accident, including an overturn.

5. Once the ATV has attained adequate speed, release the throttle, and at the same time, quickly pull in the clutch lever.
6. Shift the transmission into second gear.
(Make sure not to shift the transmission into Neutral.)
7. Open the throttle parts way and gradually release the clutch lever.
8. Follow the same procedure when shifting to the next higher gear.

To decelerate

When slowing down or stopping, release the throttle and apply the brakes smoothly and evenly. As you slow down, shift to a lower gear. Be sure that the engine has sufficiently slowed before engaging a lower gear. Improper use of the brakes or shifting can cause the tires to lose traction, reducing control and increasing the possibility of an accident.

WARNING

Make sure the engine has sufficiently slowed before shifting to a lower gear. Engaging a lower gear when the engine speed is too high could make the wheel stop rotating and lose traction. This could cause loss of control, an accident and injury. It could also cause engine or drive train damage.

NOTICE

- Even with the transmission in the neutral position, do not coast for long periods of time with the engine off, and do not tow the ATV for long distance. The transmission is properly lubricated only when the engine is running. Inadequate lubrication may damage the transmission.
- Always use the clutch when changing gears. The engine, transmission and drive train are not designed to withstand the shock of forced shifting and can be damaged by shifting without using the clutch.

Engine break-in

TIP

- For ATVs equipped with an odometer or an hour meter, follow the figures given in km (mi) or the figures given in hours.
- For ATVs not equipped with an odometer or hour meter, follow the figures given in hours. There is never a more important period in the life of your engine than the first 320 km (200 mi) or 20 hours of riding. For this reason, you should read the following material carefully. Since the engine is brand new, do not put an excessive load on it for the first 320 km (200 mi) or 20 hours. The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full-throttle operation or any condition that might result in engine overheating must be avoided.

0-160 km (0-100 mi) or 0-10 hours

Avoid prolonged operation above 1/2 throttle. Vary the speed of the ATV regularly. Do not operate it at one set throttle position.

160-320 km (100-200 mi) or 10-20 hours

Avoid prolonged operation above 3/4 throttle. Rev the engine through the gears freely, but do not use full throttle at any time.

320 km (200 mi) or 20 hours and beyond

The ATV can now be operated normally.

NOTICE

If any engine trouble should occur during the engine break-in period, immediately have a dealer check the ATV.

Parking on a slope

WARNING

Avoid parking on hills or other inclines. Parking on a hill or other incline could cause the ATV to roll out of control, increasing the chance of an accident. If you must park on an incline, place the ATV transversely across the incline, shift into first gear, stop the engine, and then block the front and rear wheels with rocks or other objects.

Never park the ATV on hills that are too steep to walk up easily.

1. Bring the ATV to a stop by applying the front brake, shift into first gear, and then stop the engine.
2. Releasing the front and rear brakes.
3. Turn the fuel cock to "OFF"



Accessories and loading

Choosing accessories for your ATV is an important decision. Original Accessories, which are available only from your dealer, have been designed, tested, and approved for use on your ATV.

Aftermarket parts, accessories, and modifications

While you may find aftermarket products similar in design and quality to Original Accessories, recognize that some aftermarket accessories or modifications are not suitable because of potential safety hazards to you or others. Installing after-market products or having other modifications performed to your ATV that change any of the vehicle's design or operation characteristics can put you and others at greater risk of serious injury or death. You are responsible for injuries related to change in the vehicle.

Keep the following in mind when considering an accessory or operating an ATV which has accessories.

- Accessories should be rigidly and securely mounted. An accessory which can shift position or come off while you are riding could affect your ability to control the ATV.
- Do not mount an accessory where it could interfere with your ability to control the ATV. Examples include (but are not limited to) a heavy or bulky object attached to the handlebars which could make steering difficult, an accessory That limits your ability to move around on the seat, or one that limits your view.
- Use extra caution when riding an ATV with accessories. The ATV may handle differently than it does without accessories.

Loading

WARNIGN

Never exceed the stated load capacity for this ATV. Overloading this ATV or carrying or towing cargo improperly could cause changes in ATV handling which could lead to an accident.

Cargo should be properly distributed and securely attached. Reduced speed when carrying cargo or pulling a trailer. Allow greater distance for braking.

As originally equipped, this ATV is not designed to carry cargo or tow a trailer. If you choose to add accessories so that you can carry cargo or tow a trailer, you must use common sense and good judgment as the stability and handling of an ATV can be

changed. When adding accessories, keep the following points in mind:

- Never exceed the weight limits shown. An over-loaded ATV can be unstable.

MAXIMUM LOADING LIMIT

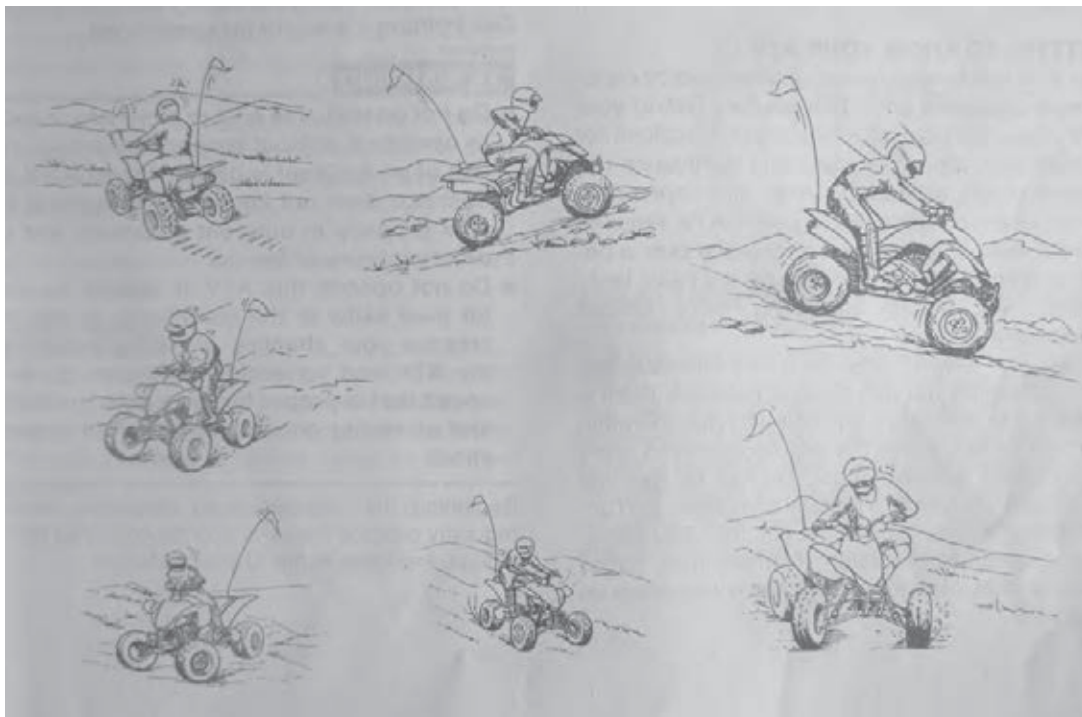
ATV loading limit (total weight of rider, cargo, accessories, and tongue):
100kg

- If you are carrying cargo and towing a trailer, include the tongue weight in the maximum ATV load limit.
- Load cargo on the carries as close to the center of the ATV as possible. Put cargo at the rear of the front carrier, at the front of the rear carrier, and center it.
- Tie down cargo securely to the carries. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Ride more slowly than you would without a load. The more weight you carry, the slower you should go. Although conditions vary, it is good

Practice not to exceed 2nd gear whenever you are carrying heavier loads or when towing a trailer.

- Allow more braking distance. A heavier ATV takes longer to stop.
- Avoid making sharp turns unless at very slow speeds.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the ATV.

RIDING YOUR ATV



GETTING TO KNOW YOUR ATV

This ATV is intended for recreational use by experienced operations only. This section, Riding your ATV, provides general ATV riding instructions for recreational riding.

The skills and techniques described in this section, however, are appropriate for all types of riding. Riding your ATV requires special skills acquired through practice over a period of time. Take the time to learn the basic techniques well before attempting more difficult maneuvers.

Riding your new ATV can be a very enjoyable activity, providing you with hours of pleasure. But it is essential to familiarize yourself with the operation of the ATV to achieve the skill necessary to enjoy riding safely. Before you begin to ride, be sure you have read this Owner's Manual completely and understand the operation of the controls. Pay particular attention to the safety information. Also read all warning and notice labels on your ATV.

RIDE WITH CARE AND GOOD JUDGMENT

Get training if you are inexperienced.

WARNING

- **Do not operate this ATV or allow anyone else to operate it without proper instruction. 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.**
- **Do not operate this ATV at speeds too fast for your skills or the conditions, as this increases your chances of losing control of the ATV and accident. Always go at a speed that is proper for the terrain, visibility and operating conditions, and your experience.**

Beginning and inexperienced operators should regularly practice the skills and the operating techniques described in this Owner's Manual.

Riding your ATV requires skills acquired through practice over a period of time.

Do not attempt to operate at maximum performance until you are totally familiar with the ATV's handling and performance characteristics. Take the time to learn the basic techniques well before attempting more difficult maneuvers. Become familiar with this ATV at slow speeds first, even if you are an experienced operator.

Not recommended for children under 16 years of age.

WARNING

A child under 16 should never operate an ATV with engine size greater than 90 cc. Use by children of ATVs that are not recommended for their age can lead to severe injury or death of the child.



This ATV is designed to carry the operator only —passengers prohibited.

The long seat is to allow the operator to shift position as needed during operation. It is not for carrying passengers. **WARNING! Never carry a passenger. Carrying a passenger on this ATV greatly reduces your ability to balance and control this ATV. You could have an accident, resulting in severe injury or death to you and/or your passenger.**



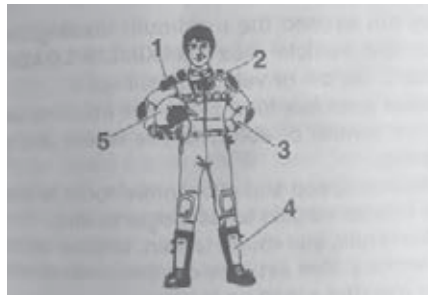
Apparel

Always wear the following to reduce risk of injury in an accident:

- Approved motorcycle helmet that fits properly
- Eye protection (goggles, helmet face shield, or protective eyewear)
- Over-the-ankle boots, gloves, long-sleeved shirt or jacket, and long pants

An approved helmet and other personal protective equipment can reduce the severity of injuries in an accident. **WARNING! Operating without an approved motorcycle helmet increases your chances of a severe head injury or death in the event of an accident.**

Wear eye protection when operating your ATV to reduce the risk of a serious accident or injury. Eye protection, such as a face shield or goggles, may reduce the risk of foreign material getting in your eyes and help prevent loss of vision. **WARNING! Operating without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.**



1. Protective clothing
2. Goggles
3. Gloves
4. Boots
5. Helmet

Do not operate after or while consuming alcohol or drugs.

The operator's performance capability is reduced by the influence of alcohol or drugs. Consuming alcohol or drugs could seriously affect your judgment, cause you to react more slowly, and affect your balance and perception. **WARNING! Never consume alcohol or drugs before or while driving this ATV. You increase your chance of an accident.**



Pre-operation checks

Always inspect your ATV each time you use it to make sure the ATV is in safe operating condition. Perform the pre-operation checks listed on PRE-OPERATION CHECKS page.

Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual. **WARNING! Failure to inspect the ATV before operating it and to maintain it properly increases the possibility of an accident**

or equipment damage.

Speed limiter

For riders less experienced with this model, the throttle lever housing is equipped with a speed limiter. The speed limiter keeps the throttle from fully opening, even when the throttle lever is pushed to the maximum. Turning in the adjusting screw limits the maximum engine power available and decreases the maximum speed of the ATV. Turning in the adjusting screw decreases top speed, and turning it out increases top speed.

Loading and accessories

WARNING

Improper loading or towing can increase the risk of loss of control, and overturn, or other accident.

To reduce the risk of an accident:

- Do not exceed the maximum loading limits for the vehicle (see "MAXIMUM LOADING LIMIT" below or vehicle labeling).
- Make sure the load does not interfere with your control or ability to see where you are going.
- Reduce speed and allow more room to stop a heavier vehicle takes longer to stop.
- Avoid hills and rough terrain. Choose terrain carefully. Use extreme caution when towing or carrying a load on inclines.
- Turn gradually and go slowly.

As originally equipped, this ATV is not designed to carry cargo or tow a trailer. If you choose to add accessories to carry cargo, you must use common sense and good judgment.

Use extra caution when riding the ATV with additional loads, such as accessories or cargo.

The ATV's handling may be adversely affected.

Reduce your speed when adding additional loads.

During operation

Always keep your feet on the footrest during operation; otherwise, they may contact the rear wheels.

WARNING! 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 of the ATV. If you remove a foot from a footrest, your foot or leg may come into contact with the rear wheels, which could injure you or cause an accident.



Avoid wheelies and jumping. **WARNING!** Attempting wheelies, jumps, and other stunts increase the chance of an accident, including an overturn. Never attempt stunts, such as wheelies or jumps. Don't try to show off.



Modifications and accessories

Never modify this ATV through improper installation or use of accessories or other modification. All parts and accessories added to this ATV should be original or equivalent components designed for use on this ATV and should be installed and used according to instructions. If you have questions consult a dealer.

WARNING! Operating this ATV with improper modification may cause changes in handling which in some situations could lead to an accident.

Exhaust system

WARNING

- Dry grass or brush or other combustible material accumulated around the engine area could catch fire. Do not operate, idle, or park the ATV in dry grass or other dry ground cover. Keep the engine area free of dry grass, brush, or other combustible material.
- Someone touching the exhaust system during or after operation could be burned. Do not touch the hot exhaust system. Do not park the ATV in a place where others might be likely to touch it.

The muffler and other engine parts become extremely hot during operation and remain hot after the engine has stopped. To reduce the risk of fire during operation or after leaving the ATV, do not let brush, grass and other materials collect under the vehicle, near the muffler or exhaust pipe, or next to other hot parts. Check under the vehicle after operating in areas where combustible materials may have collected. Do not idle or park the vehicle in long dry grass or other dry ground cover.

Spark Arrester

WARNING

To remove accumulated carbon, clean the spark arrester at the intervals recommended in the Periodic Maintenance Chart beginning on page 74.

Failure to heed these warnings could result in serious injury or death.

- Do not perform service on the spark arrester while the system is hot. Allow components to cool sufficiently before proceeding.
- Wear eye protection and gloves.
- Never run the engine in an enclosed area. Exhaust contains poisonous carbon monoxide gas.

1. Remove the three bolts and remove the arrester from the end of the muffler.
2. Use a non-synthetic brush to clean the spark arrester screen. A synthetic brush may melt if components are warm. If necessary, blow debris from the screen with compressed air.
3. Inspect the screen for wear and damage. Replace the arrester if damage is found.
4. Reinstall the arrester.
5. Torque the bolts to 5 Nm .



To prevent burns, avoid touching the exhaust system.
Park the ATV in a place where pedestrians or children are not likely to touch it.



While riding on unpaved public streets or roads may be legal in your area, such operation can increase the risk of collision with other vehicles.

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BE CAREFUL WHERE YOU RIDE

This ATV is designed for use on paved surfaces only.

WARNING! Paved surfaces may seriously affect handling and control of the ATV, and may cause the ATV to go out of control. Always avoid paved surfaces, including sidewalks, driveways, parking lots and streets.

Watch carefully for other vehicles. Make sure you know your country's laws and regulations before you ride on unpaved public streets or roads. Do not ride on any paved public street, road or motorway.

WARNING! Never operate this ATV on any paved street, paved road motorway. You can collide with another vehicle.



Know the terrain where you ride. Ride cautiously in unfamiliar areas. Stay alert for holes, rocks, or roots in the terrain, and other hidden hazards which may cause the ATV to upset. **WARNING! The ATV could go out of control if you do not have enough time to react to hidden rocks, bumps, or holes. Go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.**



Do not operate on rough, slippery, or loose terrain until you have learned and practiced the skills necessary to control the ATV on such terrain. Always be especially cautious on these kinds of terrain. **WARNING! Failure to use extra care when operating on excessively rough, slippery, or loose terrain could cause loss of traction or ATV control, which could result in an accident, including an overturn.**



When riding in an area where you might not easily be seen, such as desert terrain, mount a caution flag on the ATV. DO NOT use the flag pole bracket as a trailer hitch. **WARNING! You could collide with another vehicle if operating in areas where you Can not easily be seen. Mount a caution flag on the ATV to make you more visible. Watch carefully for other vehicles.**



Do not ride in areas posted “no trespassing”.
Do not ride on private property without getting permission.



Select a large, flat, unpaved area to become familiar with your ATV. Make sure that this area is free of obstacles and other riders. You should practice control of the throttle, brakes, shifting procedures, and turning techniques in this area before trying more difficult terrain.

Follow the instruction to start the engine. Once it has warmed up you are ready to begin riding your ATV. As you get on the ATV, be sure not to accidentally move the shift pedal. With the engine idling, pull the clutch lever to disengage the clutch and shift into 1st gear, and then release the parking brake. Open the throttle gradually, and at the same time, release the clutch lever slowly. Once the ATV has attained adequate speed, release the throttle lever and at the same time, quickly pull in the clutch lever and shift into 2nd gear. Open the throttle part way and gradually release the clutch. **WARNING! If the throttle is applied too abruptly or if the throttle is not released during shifting, or if the shift pedal is not released before applying the throttle, the front wheels may lift off the ground, resulting in a loss of directional control. NOTICE: Do not shift gears without releasing the throttle. Damage to the engine or drive train may Occur.** Use this same procedure as you move into the higher gears. Be sure to coordinate the use of the throttle and shift pedal properly.

Avoid higher speeds until you are thoroughly familiar with the operation of your ATV. When slowing down or stopping, release the throttle and apply the brakes smoothly and evenly. As you slow down, shift to a lower gear. Be sure that the engine has sufficiently slowed before engaging a lower gear. Improper use of the brakes or shifting can cause the tires to lose traction, reducing control and increasing the possibility of an accident.

TURNING YOUR ATV

WARNING

Always follow proper procedures for turning as described in this Owner's Manual. Practice turning at slow speeds before attempting to turn at faster speeds. Do not turn at speeds too fast for your skills or the conditions. ATV could go out of control, causing a collision or overturn.

To achieve maximum traction on unpaved surfaces, the two rear wheels turn together at the same speed. Therefore, unless the wheel on the inside of the turn is allowed to slip or lose some traction, the ATV will resist turning. A special turning technique must be used to allow the ATV to make turns quickly and easily. It is essential that this skill be learned first at low speed.

As you approach a curve, slow and begin to turn the handlebars in the desired direction. As you do so, put your weight on the footrest to the outside of the turn (opposite your desired direction) and lean your upper body into the turn. Use the throttle to maximum an even speed through the turn. This maneuver will let the wheel on the inside of the turn slip slightly, allowing the ATV to make the turn properly.