

CROSSFIRE

MUSTANG EVO 2 / EVO 3

OWNER'S MANUAL



**READ THIS MANUAL CAREFULLY!
IT CONTAINS IMPORTANT SAFETY INFORMATION**



WARNING

**THIS VEHICLE IS TO BE OPERATED BY
USER OLDER THAN 16 YEAR OF AGE.
NOT FOR CHILDREN.**



The Safety Alert Symbol means **ATTENTION!**
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.

CAUTION:

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

NOTE:

A NOTE provides key information to make procedures easier or clearer.

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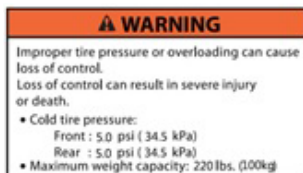
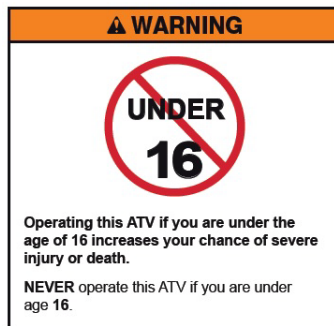
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LOCATION OF THE WARNING AND SPECIFICATION LABELS

Read and understand all of the labels on your ATV. These labels contain important information for safe and proper operation. Never remove any labels from your ATV. If a label become difficult to read or comes off, request a replacement label from your dealer.

1







SAFETY WARNING-MUST READ

RISK OF ROLL OVERS

We strongly encourage safe riding at all times. Accidents involving ATV/Quad Bikes are the second leading cause of injury and death on Australian soils. Most deaths are due to crash injuries associated with ATV/Quad Bike roll overs or by injuries associated with the victim being flung off onto a hard surface as a result of a serious crash.

Therefore we urge all riders to think carefully about their riding use of ATV/Quad Bikes, taking into account all the safety risks that are involved and how to safely ride your ATV/Quad Bike as well as keeping it serviced and maintained correctly before every ride.

SAFETY TIPS FOR RIDING

Many ATV/Quad Bike accidents are caused when ATV/Quad Bike's roll over or overturn. The key to avoiding these accidents is maintaining total control of your ATV/Quad Bike. You do this by maintaining good balance and being aware of your centre of gravity. This is most important when you are riding on an incline, going around a turn or making a sudden stop. All of these situations are recipes for disaster because they shift the momentum of an ATV/Quad Bike in such a way that you need to shift the weight of your body to counteract that momentum before the ATV/Quad Bike rolls over or flips.

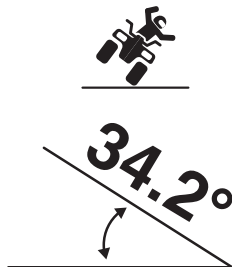
Reduce your risk of injury & death by knowing exactly what your quad bike can and can not do. We strongly recommend the following:

- Read the complete manual and pay particular attention to the safety instructions and warnings.
- Read all warning labels in this guide and on your ATV/Quad Bike, specially the roll over orange warning that is affixed to your ATV/Quad Bike. Also the yellow stability tipping point swing tag warning, we strongly recommend you study them before riding.
- Wear appropriate safety gear, that also includes an approved safety helmet that meets Australian standards.
- Make sure that other persons who operate the ATV/Quad Bike understand all riding instructions, all safety guides and warnings.
- Practise riding the ATV/Quad Bike in a safe environment until you feel confident.
- Do not allow any passengers. Only a sole Rider is permitted at all times.
- Do not modify or tamper with the ATV/Quad Bike, no aftermarket parts or equipment can be fitted as it may cause malfunction and cause serious injuries.
- Observe the load ratings, do not exceed the limit
- Regularly service and maintain your ATV/Quad Bike.
- Perform a safety check each time before you ride.
- Avoid travelling up or down steep inclines or declining hills.
- Do not perform any jumping or riding on terrains beyond your riding ability.
- Leave all safety guards in place.



SAFETY WARNING-MUST READ

Stability Test Result



COMPARE VEHICLES
Quad bikes with higher numbers are
more stable
ASK YOUR DEALER FOR ADVICE

Crossfire Motorcycles Pty Ltd Models: Mustang EVO 2, EVO 3

When tested to the quad bike safety standard, this is the minimum angle this quad bike tipped sideways on two wheels. The above result should be used for comparative purposes only.

Factors, such as uneven terrain, speed, loadings, accessories, modifications and rider position can effect a quad bike's stability.

Read the operator's manual for safe riding practices.

THIS HANG TAG IS NOT TO BE REMOVED BEFORE SALE

- Factors, such as uneven terrain, speed, loadings, accessories, modifications and rider position can effect a quad bike's stability.

- Whenever possible, ride on familiar tracks. Even then, think very carefully about the possibility of pot holes, large rocks, drains or other obstacles, the weather conditions, the nature of the surface and how fast you are able to ride.

- Ride cautiously when riding the ATV/Quad Bike on any terrain, as surfaces may compromise your control.

- Evaluate the terrain carefully before you ride. Steep hills, particularly if the dirt is loose or wet, should be avoided as they can cause the ATV/Quad Bike to roll over.

- Watch the ground ahead for potential hazards. Riding into or over rocks, pipes or any other obstacle can cause an accident.

- If you're not confident that you can negotiate a particular stretch of terrain, don't attempt it. Go another way or turn around.

- Remember that liquids within a spray tank can cause sudden shifts to your quad bike's centre of gravity when riding over uneven terrains. Make sure you are able to carry additional weight and that it doesn't exceed the load capacity.

⚠ WARNING



RISK of ROLLOVER even on flat terrain

ROLLOVERS could result in **DEATH** or **SERIOUS INJURY**

AVOID sudden sharp turns

AVOID steep inclines

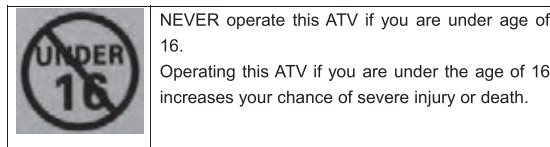
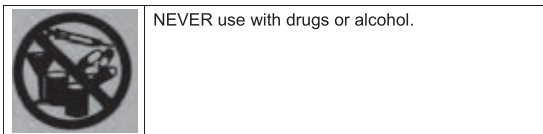
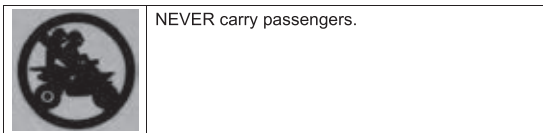
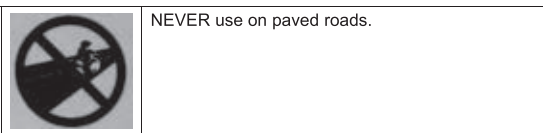
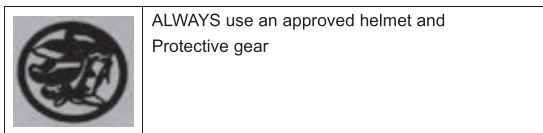
AVOID riding across slopes



To prevent potential fire hazards all our Quad Bikes/ATV's have been fitted with a Spark Arrestor that conforms with Australian standards.

A spark arrestor is designed to trap any glowing sparks before they exit your exhaust by acting as a filter. The mesh creates many tiny holes which the exhaust needs to flow through. Any particles larger than the holes in the mesh will be stopped.

Familiarize yourself with the following pictograms and read the explanatory text, then make sure to check the pictograms that apply to your model.





SAFETY INFORMATION

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

An ATV handles differently from other vehicles, including motorcycles and cars. A collision or roll-over can occur quickly, even during routine maneuvers such as turning and riding 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 training or instruction.
- Always follow the age recommendation:
—A child under 16 years old should never operate an ATV with engine size greater than 90 cc.
- Never allow a child under age 16 to operate an ATV without adult supervision, and never allow continued use of an ATV by a child if he or she does not have the abilities to operate it safely.
- Never carry a passenger on an ATV.
- Always avoid operating an ATV on any paved surfaces, including sidewalks, driveways, parking lots and paved streets.
- Never operate an ATV on any paved street, paved road or motorway.
- Watch carefully for other vehicles when operating on unpaved public streets or roads. Make sure you know your country's laws and regulations before you ride on unpaved public streets or roads.
- Never operate an ATV without wearing an approved motorcycle helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, a long-sleeved shirt or a jacket, and long pants.
- Never consume alcohol or drugs before or while operating this ATV.
- Never operate at speeds too fast for your skills or the riding conditions. Always go at a speed that is proper for the terrain, visibility, 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 inspections and maintenance procedures and schedules described in this manual.
- Always keep both hands on the handlebars and both feet on the footrest of the ATV during operation.
- 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 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.
- Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds and never turn at excessive speeds.
- 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 excessively slippery or loose surfaces. Shift your weight forward. Never open the throttle suddenly or make sudden gear changes.
Never go over the top of a hill at a 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 that 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 excessively 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 technique 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 backwards when climbing a hill. To avoid stalling, use the proper gear and 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 of to a side if pointed straight uphill. Turn the ATV around and remount, 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 when skidding or sliding. Learn to safety control skidding or sliding by practicing at low speeds and on level, smooth terrain. On extremely slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the change of skidding or sliding out of control.
- Never operate an ATV in fast flowing water or in water deeper than that recommended in this manual. Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the linings.
- Always use the size and type of tires specified in this manual.
- Always maintain proper tire pressure as described in this manual.
- Never modify an ATV through improper installation or use of accessories.
- 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. Allow greater distance for braking.

**WARNING****Avoid Carbon Monoxide Poisoning**

All engine exhaust contains carbon monoxide, a deadly gas. Breathing carbon monoxide can cause headaches, dizziness, drowsiness, nausea, confusion, and eventually death. Carbon Monoxide is a colorless, odorless, tasteless gas which may be present even if you do not see or smell any engine exhaust. Deadly levels of carbon monoxide can collect rapidly and you can quickly be overcome and unable to save yourself. Also, deadly levels of carbon monoxide can linger for hours or days in enclosed or poorly ventilated areas. If you experience any symptoms of carbon monoxide poisoning, leave the area immediately, get fresh air, and **SEEK MEDICAL TREATMENT**.

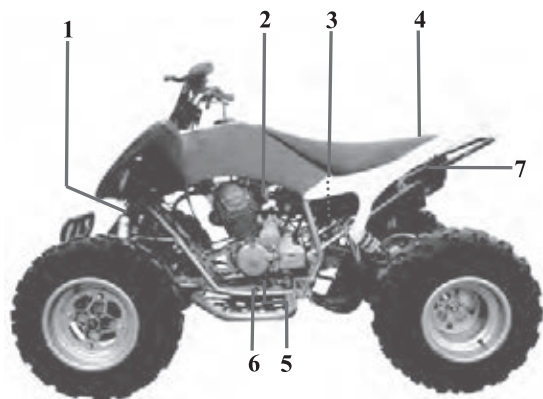
- Do not run engine indoors. Even if you try to ventilate engine exhaust with fans or open windows and doors, carbon monoxide can rapidly reach dangerous levels.
- Do not run engine in poorly ventilated or partially enclosed areas such as barns, garages, or carports.
- Do not run engine outdoors where engine exhaust can be drawn into a building through openings such as windows and Doors.

**WARNING**

When transporting the ATV in another vehicle, be sure it is kept upright and that the fuel cock is in the “OFF” position. Otherwise, fuel may leak out of the carburetor or fuel tank.

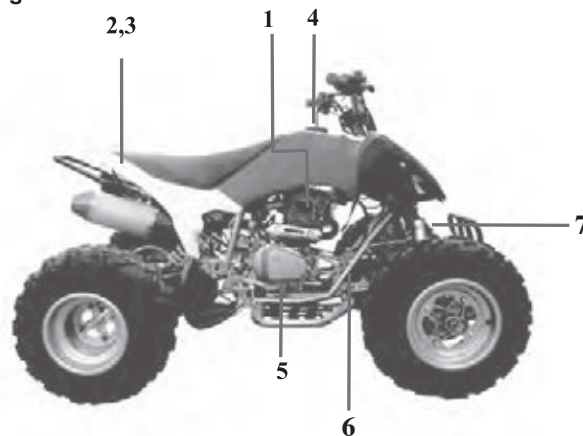
DESCRIPTION

Left view



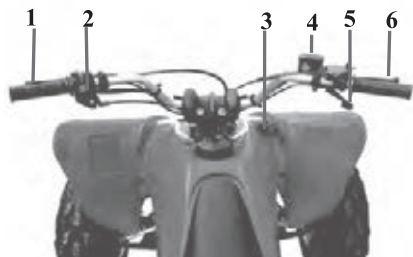
- 1. Front shock absorber assembly spring preload adjusting
- 2. Fuel cock
- 3. Rear shock absorber assembly spring preload adjusting
- 4. Owner's tool kit
- 5. Engine oil drain bolt
- 6. Shift pedal
- 7. Air filter

Right view



- 1. Spark plug
- 2. Fuse
- 3. Battery
- 4. Fuel tank cap
- 5. Brake pedal
- 6. VIN number
- 7. ID plate

Controls and instruments



1. Clutch lever
2. Handlebar switches
3. Main switch
4. Front brake fluid reservoir
5. Throttle lever
6. Brake lever

TIP

The ATV you have purchased may differ slightly from the figures shown in this manual.

INSTRUMENT AND CONTROL FUNCTIONS

MAIN SWITCH

The positions of the main switch are as follows:

ON

All electrical systems are supplied with power. The headlights and taillight come on when the light switch is on, and the engine can be started. The key cannot be removed.

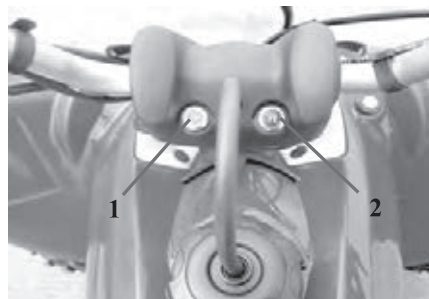
OFF

All electrical systems are off. The key can be removed.



1. Main switch

Indicator light



1. Neutral indicator light "N"
2. Reverse indicator light "R"

Neutral indicator light "N"


This indicator light comes on when the transmission is in the neutral position.

Reverse indicator light "R"

This indicator light comes on when the transmission is in the reverse position.

Handlebar switches



1. Front light switch 


2. Light beam switch “/”

3. Engine stop switch “/”


4. Start switch “”

5.choke switch “”

Engine stop switch “/”

Set this switch to “” before starting the engine.

The engine stop switch controls the ignition and stops the engine when it is running. Use this switch to stop the engine in an emergency situation. The


engine will not start or run when this switch is set to “”.

Start switch “”

Push this switch to crank the engine with the starter. See the starting instructions prior to starting the engine.

Light beam switch “/”

Set this switch to “” to turn on the low beams

and the taillight. Set the switch to “” to turn on the high beams and the taillight.

Choke switch “”

Starting a cold engine requires a richer air-fuel mixture, Which is supplied by the choke.

Move the choke switch to left to turn on the choke, move the choke to right to turn off the choke.

Notice

Do not use the headlights with the engine turned off for an extended period of time, otherwise the battery may discharge to the point that the starter motor will not operate properly. If this should happen, remove the battery and recharge it.

Throttle lever

Once the engine is running, pushing the throttle lever will increase the engine speed.

Regulated the speed of the ATV by varying the throttle position. Because the throttle is spring loaded, the ATV will decelerate, and the engine will return to an idle any time the throttle lever is released.



1. Throttle lever

Before starting the engine, check the throttle to be sure it is operating smoothly. Make sure it returns to the idle position as soon as the lever is released.

Speed limiter

Your ATV is equipped with an adjustable speed limiter. The speed limiter keeps the throttle from fully opening, even when the throttle lever is pushed to maximum.

1. Loosen the locknut.
2. To increase the maximum engine power available and the maximum speed of the ATV, turn the adjusting screw counter-clockwise. To decrease the maximum engine power available and the maximum speed of the ATV, turn the adjusting screw clockwise. Do not turn the adjusting screw out more than 12 mm (0.47 in) or the throttle cable could be damaged. Always make sure the throttle lever free play is adjusted to 2.0-4.0 mm (0.08-0.16 in).

WARNING! Improper adjustment of the speed limiter and throttle could cause throttle cable damage or improper throttle operation. You could lose control, resulting in an accident.



1. Locknut
 2. Adjusting screw
 3. No more than 12 mm (0.47 in)
3. Tighten the locknut.

Clutch lever

The clutch lever is located on the left handlebar and the ignition circuit cut-off system is incorporated in the clutch lever holder. To disengage the clutch, pull the clutch lever toward the handlebar grip. To engage the clutch, release the clutch lever. The clutch lever should be pulled rapidly and released slowly for smooth clutch operation. (See page 6-1 for a description of the ignition circuit cut-off system.)



1. Clutch lever

Brake lever

The brake lever is located at the right handlebar grip. To apply the front brake, pull the brake lever toward the handle grip.



1. Brake lever

Brake pedal

The brake pedal is located on the right side of the ATV. To apply the rear brake, push down on the brake pedal.



1. Brake pedal

Shift pedal

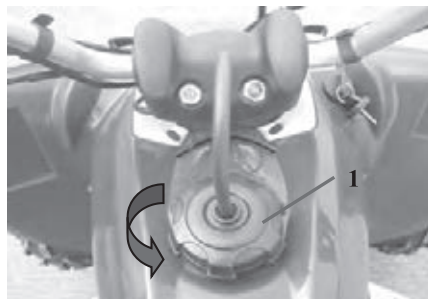
This ATV is equipped with a constant-mesh 4-speed transmission. The shift pedal is located on the left side of the engine and is used in combination with the clutch when shifting.



1. Shift pedal

Fuel tank cap

Remove the fuel tank cap by turning it counter-clockwise.



1. Fuel tank cap

Fuel

Make sure there is sufficient gasoline in the tank.

WARNING

Gasoline and gasoline vapors are extremely flammable. To avoid fires and explosions and to reduce the risk of injury when refueling, follow these instructions.

1. Before refueling, turn off the engine and be sure that no one is sitting on the vehicle. Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of water heaters and clothes dryers.
2. Do not overfill the fuel tank. When refueling, be sure to insert the pump nozzle into the fuel tank filler hole.

Stop filling when the fuel reaches the bottom of the filter tube. Because fuel expands when it heats up, heat from the engine or the sun can cause fuel to spill out of the fuel tank.

3. Wipe up any spilled fuel immediately.

NOTICE: Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.

4. Turn the fuel tank cap fully clockwise to make sure it is securely closed.

WARNING

Gasoline is poisonous and then cause injury or death. Handle gasoline with care. Never siphon gasoline by mouth. If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your eyes, see your doctor immediately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.

NOTICE

Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.

Fuel cock

The fuel cock supplies fuel from the tank to the carburetor while also filtering it.

The fuel cock lever positions are explained as follows and shown in the illustrations.

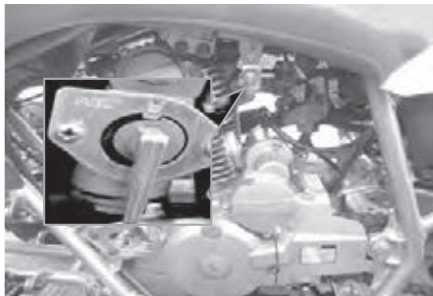
OFF



1. Arrow mark positioned over "OFF"

With the fuel cock lever in this position, fuel will not flow. Always turn the fuel cock lever to this position when the engine is not running.

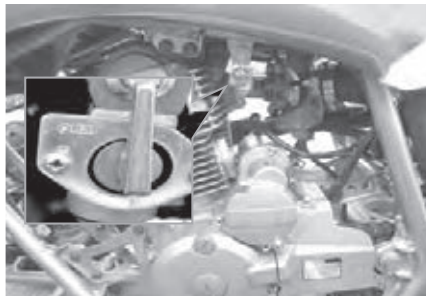
ON



1. Arrow mark positioned over "ON"

With the fuel cock lever in this position, fuel flows to the carburetor. Turn the fuel cock lever to this position when starting the engine and riding.

RES



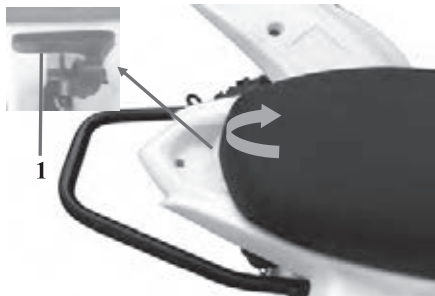
1. Arrow mark positioned over "RES"

This indicates reserve. With the fuel cock lever in this position, the fuel reserve is made available. Turn the fuel cock lever to this position if you run out of fuel while riding. When this occurs, refuel as soon as possible and be sure to turn the fuel cock lever back to "ON"

Seat

To remove the seat

Insert your hand between the rear of the seat and the rear fender, pull the seat lock lever upward and pull up the seat at the rear.



1. Seat lock lever

To install the seat

Insert the projections on the front of the seat into the seat holders and push down on the seat at the rear. Make sure that the seat is securely fitted.



- 1. Projection
- 2. Seat holder

Adjusting the front shock absorber assemblies

The spring preload can be adjusted to suit the rider's weight and the riding conditions.

WARNING

Always adjust the shock absorber assemblies on the left and right side to the same setting. Uneven adjustment can cause poor handling and loss of stability, which could lead to an accident.

Adjust the spring preload as follows.

Turn the spring preload adjusting ring clockwise to increase the spring preload and thereby harden the suspension, and turn counter-clockwise to decrease the spring preload and thereby soften the suspension.



1. Spring preload adjusting ring

Adjusting the rear shock absorber assembly

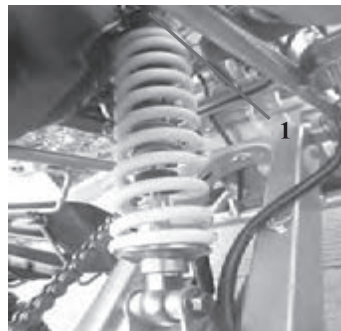
The spring preload can be adjusted to suit the rider's weight and the riding conditions.

NOTICE

Never turn the adjusting mechanism beyond the minimum and maximum settings.

Adjust the spring preload as follows.

Turn the spring preload adjusting ring clockwise to increase the spring preload and thereby harden the suspension, and turn counter-clockwise to decrease the spring preload and thereby soften the suspension.



1. Spring preload adjusting ring

WARNING

This shock absorber assembly contains highly pressurized nitrogen gas. If the shock absorber assembly is damaged, it could explode causing injury or property damage. Shock absorber cylinder damage could also result in poor handling which could cause an accident.

- Do not tamper with or attempt to open the cylinder assembly.
- Do not subject the shock absorber assembly to an open flame or other high heat.
- Do not deform or damage the cylinder in any way.
- Do not dispose of a damaged or worn out shock absorber assembly yourself. Take the shock absorber assembly to a dealer for any service.

PRE-OPERATION CHECKS

Inspect your vehicle each time you use it to make sure the vehicle is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in the owner's Manual.

WARNING

Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage. Do not operate the vehicle if you find any problem.

if a problem cannot be corrected by the procedures provided in this manual, have the vehicle inspected by your dealer.

Before using this vehicle, check the following points:

ITEM	ROUTINE
Fuel	<ul style="list-style-type: none">• Check fuel level in fuel tank, and add recommended fuel if necessary.• Check fuel line for leakage. Correct if necessary.
Engine oil	<ul style="list-style-type: none">• Check oil level in engine, and add recommended oil to specified level if necessary.• Check ATV for oil leakage. Correct if necessary.
Radiator	<ul style="list-style-type: none">• Check colling liquid in radiator, and add colling liquid to the full.• Check colling liquid for leakage. Correct if necessary.
Front brake	<ul style="list-style-type: none">• Check operation. If soft or spongy, have a dealer bleed hydraulic system.• Check brake pads for wear, and replace if necessary.• Check brake fluid level in reservoir, and add specified brake fluid to specified level if necessary.• Check hydraulic system for leakage. Correct if necessary.

ITEM	ROUTINE
Rear brake	<ul style="list-style-type: none"> • Check operation. If soft or spongy, have a dealer bleed hydraulic system. • Check brake pads for water, and replace if necessary. • Check brake fluid level in reservoir, and add specified brake fluid to specified level if necessary. • Check hydraulic system for leakage. Correct if necessary.
Clutch	<ul style="list-style-type: none"> • Check operation, and correct if necessary. • Lubricate cable if necessary. • Check lever free play, and adjust if necessary.
Throttle lever	<ul style="list-style-type: none"> • Make sure that operation is smooth. Lubricate cable and lever housing if necessary. • Check lever free play, and adjust if necessary.
Control cables	<ul style="list-style-type: none"> • Make sure that operation is smooth. Lubricate if necessary.
Drive chain	<ul style="list-style-type: none"> • Check chain slack, and adjust if necessary. • Check chain condition. Lubricate if necessary.
Wheels and tires	<ul style="list-style-type: none"> • Check wheel condition, and replace if damaged. • Check tire condition and tread depth. Replace if necessary. • Check air pressure. Correct if necessary.
Shift pedal	<ul style="list-style-type: none"> • Make sure that operation is smooth. • Correct if necessary
Brake pedal	<ul style="list-style-type: none"> • Make sure that operation is smooth. Lubricate pedal pivoting point if necessary.
Brake and clutch levers	<ul style="list-style-type: none"> • Make sure that operation is smooth. Lubricate lever pivoting points if necessary.
Chassis fasteners	<ul style="list-style-type: none"> • Make sure that all nuts, bolts and screw are properly tightened.
Instruments, lights and switches	<ul style="list-style-type: none"> • Check operation, and correct if necessary.