

can-amTM



2015

**Operator's
Guide**

**Includes
Safety, Vehicle
and Maintenance Information**
(Canada/United States)

**OUTLANDERTM XTM mr
Series**

⚠ WARNING

Read this guide thoroughly. It contains important safety information. Minimum recommended operator's age: 16 years old. Experienced operator only. Keep this Operator's Guide in the vehicle.

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Original Instructions

 **WARNING**

YOUR VEHICLE CAN BE HAZARDOUS TO OPERATE. A collision or rollover can occur quickly, if you fail to take proper precautions, even during routine maneuvers such as turning and driving on hills or over obstacles. For your safety, understand and follow all the warnings contained in this Operator's Guide and on the labels on your vehicle. **Failure to follow these warnings can result in SEVERE INJURY OR DEATH!** Keep this Operator's Guide with the vehicle at all times.

 **WARNING**

Disregarding any of the safety precautions and instructions contained in this Operator's Guide, *SAFETY DVD* video and on-product safety labels could result in an injury including the possibility of death!

 **WARNING**

This vehicle may exceed the performance of other vehicles you may have ridden in the past. Take time to familiarize yourself with your new vehicle.

CALIFORNIA PROPOSITION 65 WARNING

 **WARNING**

This product contains or emits chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

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FOREWORD

Deutsch	Dieses Handbuch ist möglicherweise in Ihrer Landessprache verfügbar. Bitte wenden Sie sich an Ihren Händler oder besuchen Sie: www.operatorsguide.brp.com .
English	This guide may be available in your language. Check with your dealer or go to: www.operatorsguide.brp.com .
Español	Es posible que este manual esté disponible en su idioma. Consulte a su distribuidor o visite: www.operatorsguide.brp.com .
Français	Ce guide peut être disponible dans votre langue. Vérifier avec votre concessionnaire ou aller à: www.operatorsguide.brp.com .
Nederlands	Deze handleiding kan beschikbaar zijn in uw taal. Vraag het aan uw dealer of ga naar: www.operatorsguide.brp.com .
Norsk	Denne boken kan finnes tilgjengelig på ditt eget språk. Kontakt din forhandler eller gå til: www.operatorsguide.brp.com .
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Suomi	Käyttöohjekirja voi olla saatavissa omalla kielelläsi. Tarkista jälleenmyyjältä tai käy osoitteessa: www.operatorsguide.brp.com
Svenska	Denna bok kan finnas tillgänglig på ditt språk. Kontakta din återförsäljare eller gå till: www.operatorsguide.brp.com .

Congratulations on your purchase of a new Can-Am™ ATV. It's backed by the BRP limited warranty and a network of authorized Can-Am dealers ready to provide the parts, accessories or service you may require.

At delivery, you were informed of the warranty coverage and signed the *PREDELIVERY CHECK LIST* to ensure your new vehicle was prepared to your entire satisfaction.

Your dealer is committed to your satisfaction. If you need more information, please ask your dealer.

Know Before you Go

To learn how to reduce the risk for you or bystanders being injured or killed, read this Operator's Guide before you operate the vehicle.

Also, read all safety labels on your ATV and watch attentively your *SAFETY DVD* video.

This vehicle is a category S, always follow this age recommendation: A person under 16 years old should never operate this vehicle.


This vehicle is for recreational use by experienced operators only.

We highly recommend that you take a safety riding course. Refer to *SPECIAL SAFETY MESSAGES* subsection for details.

Failure to follow the warnings contained in this Operator's Guide can result in **SERIOUS INJURY** or **DEATH**.

Safety Messages

The types of safety messages, what they look like and how they are used in this guide are explained as follows:

The safety alert symbol  indicates a potential injury hazard.

⚠ WARNING

Indicates a potential hazard, if not avoided, could result in serious injury or death.

⚠ CAUTION Indicates a hazard situation which, if not avoided, could result in minor or moderate injury.

NOTICE Indicates an instruction which, if not followed, could severely damage vehicle components or other property.

About This Operator's Guide

This Operator's Guide has been prepared to acquaint the owner/operator of a new vehicle with the various vehicle controls, maintenance and safe operating instructions. It is indispensable for the proper use of the product.

Keep this Operator's Guide in the vehicle as you can refer to it for things such as maintenance, troubleshooting and instructing others.

Note that this guide is available in several languages. In the event of any discrepancy, the english version shall prevail.

If you want to view and/or print an extra copy of your Operator's Guide, simply visit the following website www.operatorsguide.brp.com.

The informations contained in this document are correct at the time of publication. However, BRP maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured. Due

to late changes, some differences between the manufactured product and the descriptions and/or specifications in this guide may occur. BRP reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring any obligation upon itself.

This Operator's Guide and the *SAFETY DVD* video should remain with the vehicle when it is sold.

While reading this Operator's Guide, remember that:

⚠ WARNING

Indicates a potential hazard that, if not avoided, could result in serious injury or death.

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SAFETY INFORMATION

GENERAL PRECAUTIONS

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 that 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.

To prevent serious injury or death from carbon monoxide:

- Never run the vehicle in poorly ventilated or partially enclosed areas such as garages, carports or barns. Even if you try to ventilate engine exhaust with fans or open windows and doors, carbon monoxide can rapidly reach dangerous levels.
- Never run the vehicle outdoors where engine exhaust can be drawn into a building through openings such as windows and doors.

Avoid Gasoline Fires and Other Hazards

Gasoline is extremely flammable and highly explosive. Fuel vapors can spread and be ignited by a spark or flame many feet away from the engine. To reduce the risk of fire or explosion, follow these instructions:

- Use only an approved gasoline container to store fuel.
- Strictly adhere to instructions in *FUEL* subsection.
- Never start or operate the engine if the fuel cap is not properly installed.

Gasoline is poisonous and can cause injury or death.

- Never siphon gasoline by mouth.
- If you swallow gasoline, get any in your eye(s), or inhale gasoline vapor, see your doctor immediately.

If gasoline spills on you, wash with soap and water and change your clothes.

Avoid Burns from Hot Parts

Certain components become hot during operation. Avoid contact with those parts during and shortly after operation to avoid burns.

Accessories and Modifications

Do not make unauthorized modifications, or use attachments or accessories that are not approved by BRP. Since these changes have not been tested by BRP, they may increase the risk of crashes or injury, and can render the vehicle illegal.

See your authorized Can-Am dealer for available accessories for your vehicle.

SPECIAL SAFETY MESSAGES

THIS VEHICLE IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE.

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

SEVERE INJURY OR DEATH can result if you do not comply with the following instructions:

- Read this Operator's Guide and all on-product safety labels carefully and follow the operating procedures described. Watch and pay attention to the *SAFETY DVD* video before operating the vehicle.
- Always follow this age recommendation: A person under 16 years old should never operate this vehicle.
- Never carry a passenger on this vehicle. Passenger(s) affect balance and steering and increase risk of losing control.
- Never operate this vehicle on any paved surfaces, including sidewalks, driveways, parking lots and streets.
- Never operate this vehicle on any public street, road or highway, even a dirt or gravel one.
- Never take place on this vehicle without wearing an approved helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, long sleeved shirt or jacket, and long pants.
- Never use this vehicle if you are tired, ill or with drugs or alcohol. Your reaction time and judgement is greatly affected under these conditions.
- Never operate at excessive speeds. Always go at a speed that is proper for the terrain, visibility, and operating conditions, and your experience.
- Never attempt wheelies, jumps, or other stunts.
- Always inspect and confirm the safe operating condition of your vehicle prior to ride. Always follow the inspection and maintenance procedures and schedules described in this Operator's Guide.
- Always keep both hands on the handlebars and both feet on the footrests of the vehicle during operation.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating this vehicle.
- Never operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control this vehicle on such terrain. Always be especially cautious on these kinds of terrain.
- Always follow proper procedures for turning as described further in this Operator's Guide. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speed.
- Never operate this vehicle on hills too steep for the vehicle or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills as described further in this Operator's Guide. 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 any hill at high speed.
- Always follow proper procedures for going down hills and for braking on hills as described further in this Operator's Guide. Check the terrain carefully before you start down any hill. Shift your weight backward.

- Always follow proper procedures for crossing the side of a hill as described further in this Operator's Guide. Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the vehicle.
- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, use proper range and maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this Operator's Guide. Dismount on the uphill side or to a side if pointed straight uphill. Turn the vehicle around and remount, following the procedure described further in this Operator's Guide.
- 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 further in this Operator's Guide.
- Always be careful when skidding or sliding. Learn to safely 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 chance of skidding out of control.
- Never operate this vehicle in fast flowing water or in water deeper than that specified in this Operator's Guide. Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water, mud or snow. If necessary, apply them several times to let friction dry out the pads.
- Always keep in mind that braking distance is readily affected by but not limited to; weather and terrain conditions, braking system and tire conditions, vehicle speed and attitude, and vehicle load including towing. Remember to adjust your driving accordingly.
- Always be sure there are no obstacles or people behind the vehicle when you operate in reverse. When it is safe to proceed in reverse, go slowly.
- BRP recommends sitting on your ATV when operating in reverse. Avoid standing up. Your weight could shift forward against throttle lever, causing an unexpected acceleration and loss of control.
- Always use the size and type tires specified further in this Operator's Guide. Always maintain proper tire pressure as described further in this Operator's Guide.
- Never modify this vehicle through improper installation or use of accessories. Only use BRP's approved accessories. NEVER install passenger seat or use the cargo area to carry a passenger.
- Never exceed the stated load limits for this vehicle including operator, all other loads and added accessories. 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.
- Never operate the vehicle if the controls do not function normally.

Training Course

Never operate this vehicle without proper instruction. **Take a training course.** All operators should receive training from a certified instructor.

FOR MORE INFORMATION ABOUT ATV SAFETY, contact an authorized Can-Am dealer to find out about available training courses nearest you.

Call the Specialty Vehicle Institute of America (SVIA) at 1 800 887-2887 or in Canada, the Canada Safety Council (CSC) at 1 613 739-1535.

OPERATION WARNINGS

The following warning and their format have been requested by the United States Consumer Product Safety Commission and are required to be in the Operator's Guide for all ATVs.

NOTE: The following illustrations are general representations only. Your model may differ.

WARNING



POTENTIAL HAZARD

Operating this vehicle without proper instruction.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Beginners and inexperienced operators should complete a training course. They should then regularly practice the skills learned during the course as well as the operating techniques described in this Operator's Guide.

For more information about the training course, contact an authorized Can-Am dealer.

⚠ WARNING



V00A1AQ

POTENTIAL HAZARD

Failure to follow the age recommendations for this vehicle.

WHAT CAN HAPPEN

A lack of respect for this age recommendation can lead to severe injury or death of the child.

Even though a child may be within the age group for which this vehicle is recommended, he may not have the skills, abilities, or judgment needed to operate this vehicle safely and may be involved in a serious accident.

HOW TO AVOID THE HAZARD

No one under 16 should operate this vehicle.

⚠ WARNING

V00A02Q

POTENTIAL HAZARD

Carrying a passenger on this vehicle.

WHAT CAN HAPPEN

Greatly reduces your ability to balance and control this vehicle.

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

HOW TO AVOID THE HAZARD

Never carry passenger. Even with a long seat that provides unrestricted operator movement, it is not designed nor intended to carry passenger(s).

⚠ WARNING



POTENTIAL HAZARD

Operating this vehicle on paved surfaces.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never operate this vehicle on any paved surfaces, including sidewalks, driveways, parking lots and streets.

⚠ WARNING**POTENTIAL HAZARD**

Operating this vehicle on public streets, roads or highways.

WHAT CAN HAPPEN

You can collide with another vehicle.

HOW TO AVOID THE HAZARD

Never operate this vehicle on any public street, road or highway, even a dirt or gravel one. In many states or provinces it is illegal to operate this vehicle on public streets, roads or highways.

⚠ WARNING



POTENTIAL HAZARD

Riding this vehicle without wearing an approved helmet, eye protection and protective clothing.

WHAT CAN HAPPEN

The following items concern all ATV's operator:

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

HOW TO AVOID THE HAZARD

Always wear an approved helmet that fits properly. You should also wear:

- Eye protection (goggles or face shield)
- Gloves and boots
- Long sleeved shirt or jacket
- Long pants.

⚠ WARNING

V00A07Q

POTENTIAL HAZARD

Using this vehicle with drugs or alcohol.

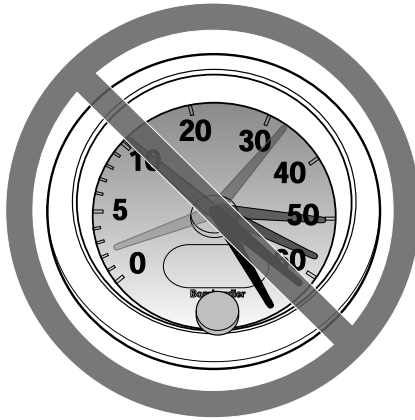
WHAT CAN HAPPEN

- Could seriously affect your judgment.
- Could cause you to react more slowly.
- Could affect your balance and perception.
- Could result in an accident or death.

HOW TO AVOID THE HAZARD

Never use this vehicle with drugs or alcohol.

⚠ WARNING



V00A08Q

POTENTIAL HAZARD

Operating this vehicle at excessive speeds.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Always travel at a speed which is appropriate for the terrain, visibility and operating conditions, and your experience.

⚠ WARNING**POTENTIAL HAZARD**

Attempting wheelies, jumps and other stunts.

WHAT CAN HAPPEN

Increases the chance of an accident, including an overturn.

HOW TO AVOID THE HAZARD

Never attempt stunts, such as wheelies or jumps. Do not try to show off.

⚠ WARNING**POTENTIAL HAZARD**

Failure to inspect the vehicle before operating.

Failure to properly maintain the vehicle.

WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

HOW TO AVOID THE HAZARD

Always inspect your vehicle prior to every time you use it to make sure the vehicle is in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described further in this Operator's Guide.

⚠ WARNING

POTENTIAL HAZARD

Riding on frozen waterways.

WHAT CAN HAPPEN

Breaking through the ice can lead to severe injury or death.

HOW TO AVOID THE HAZARD

Never ride this vehicle on a frozen surface before you are sure the ice is thick enough and sound enough to support the vehicle and its load, as well as the force that is created by a moving vehicle.

⚠ WARNING



POTENTIAL HAZARD

Removing hands from handlebar or feet from the footrests during operation.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Always keep both hands on the handlebar and both feet on the footrests during vehicle operation.

⚠ WARNING**POTENTIAL HAZARD**

Failure to use extra care when operating this vehicle on unfamiliar terrain.

WHAT CAN HAPPEN

You can come upon hidden rocks, bumps, or holes, without enough time to react.

Could result in the vehicle overturning or loss of control.

HOW TO AVOID THE HAZARD

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

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

⚠ WARNING



POTENTIAL HAZARD

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

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Do not operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control this vehicle on such terrain.

Always be especially cautious on these kinds of terrain.

⚠ WARNING**POTENTIAL HAZARD**

Turning improperly.

WHAT CAN HAPPEN

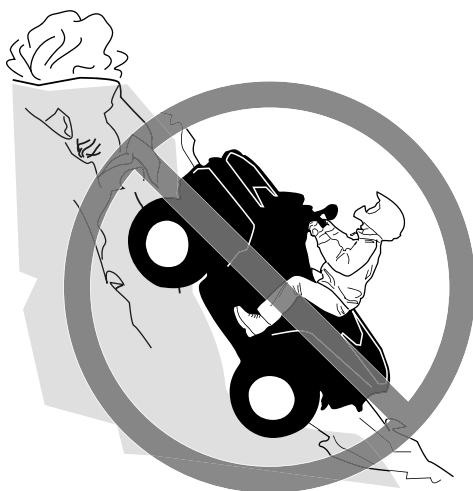
Vehicle could go out of control, causing a collision or overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for turning as described further in this Operator's Guide. Practice turning at low speeds before attempting to turn at faster speeds.

Do not turn at excessive speed.

⚠ WARNING



POTENTIAL HAZARD

Operating on excessively steep hills.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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

Practice on smaller hills before attempting larger hills.

⚠ WARNING**POTENTIAL HAZARD**

Climbing hills improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause vehicle to overturn.

HOW TO AVOID THE HAZARD

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

Always 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. The vehicle could flip over backwards.

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

⚠ WARNING



POTENTIAL HAZARD

Going down a hill improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause vehicle to overturn.

HOW TO AVOID THE HAZARD

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

NOTE: A special technique is required when braking as you go down a hill.

Always check the terrain carefully before you start down any hill.

Shift your weight backward.

Never go down a hill at high speed.

Avoid going down a hill at an angle which would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.

⚠ WARNING**POTENTIAL HAZARD**

Improperly crossing hills or turning on hills.

WHAT CAN HAPPEN

Could cause loss of control or cause vehicle to overturn.

HOW TO AVOID THE HAZARD

Never attempt to turn the vehicle around on any hill until you have mastered the turning technique as described further in this Operator's Guide on level ground. Be very careful when turning on any hill.

Avoid crossing the side of a steep hill if possible.

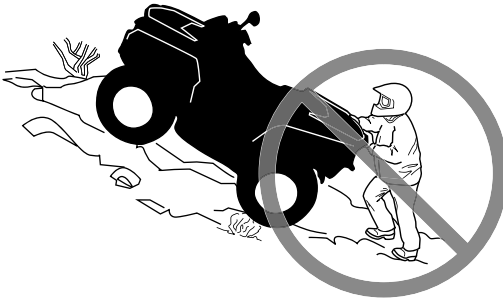
When crossing the side of a hill:

Always follow proper procedures as described further in this Operator's Guide.

Avoid hills with excessively slippery or loose surfaces.

Shift your weight to the uphill side of the vehicle.

⚠ WARNING



POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Could result in vehicle overturning.

HOW TO AVOID THE HAZARD

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

If you lose all forward speed:

Keep your weight uphill. Never open the throttle suddenly or make sudden gear changes. The vehicle could flip over backwards.

Apply the brakes.

Lock parking brake after you have stopped.

Dismount on uphill side, or to a side if pointed straight uphill.

If you begin rolling backwards:

Keep your weight uphill. Never open the throttle suddenly or make sudden gear changes. The vehicle could flip over backwards.

Never apply the rear brake while rolling backwards.

Apply the front brake gradually.

When fully stopped, apply rear brake as well and lock parking brake.

Dismount on uphill side, or to a side if pointed straight uphill.

Turn the vehicle around and remount, following the procedure described further in this Operator's Guide.

⚠ WARNING**POTENTIAL HAZARD**

Improperly operating over obstacles.

WHAT CAN HAPPEN

Could cause loss of control or a collision.

Could cause the vehicle to overturn.

HOW TO AVOID THE HAZARD

Before operating in a new area, check for obstacles.

Never attempt to ride over large obstacles, such as large rocks or fallen trees.

When you go over obstacles, always follow proper procedures as described further in this Operator's Guide.

⚠ WARNING



POTENTIAL HAZARD

Skidding or sliding improperly.

WHAT CAN HAPPEN

You may lose control of this vehicle.

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

HOW TO AVOID THE HAZARD

Learn to safely 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 chance of skidding or sliding out of control.

⚠ WARNING**POTENTIAL HAZARD**

Operating this vehicle through deep or fast flowing water.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never operate this vehicle in fast flowing water or in water deeper than that specified further in this Operator's Guide.

Check water depth and current before you attempt to cross any water. Water level should not go above tires.

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 pads.

⚠ WARNING



POTENTIAL HAZARD

Improperly operating in reverse.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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

⚠ WARNING**POTENTIAL HAZARD**

Operating this vehicle with improper tires, or with improper or uneven tire pressure.

WHAT CAN HAPPEN

Use of improper tires on this vehicle, or operation of this vehicle with improper or uneven tire pressure, may cause loss of control, tire blow outs, tire to move around on its rim and increases the risk of an accident.

HOW TO AVOID THE HAZARD

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

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

Always replace wheels or tires that are damaged.

⚠ WARNING



POTENTIAL HAZARD

Operating this vehicle with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situations could lead to an accident.

HOW TO AVOID THE HAZARD

Never modify this vehicle through improper installation or use of accessories. All parts and accessories added to this vehicle should be approved by BRP and should be installed and used according to instructions. If you have questions, consult an authorized Can-Am dealer.

NEVER install passenger seat or use the cargo area to carry a passenger.

Modification of the vehicle to increase speed and performance may violate the terms and conditions of your vehicle's limited warranty. In addition, certain modifications including the removal of engine or exhaust components are illegal under most laws.

⚠ WARNING**POTENTIAL HAZARD**

Overloading this vehicle, carrying or towing cargo improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this vehicle including operator, as well as other loads and added accessories.

Cargo should be properly distributed and securely attached.

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

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

 **WARNING**



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POTENTIAL HAZARD

Transporting flammable or dangerous material can lead to explosions.

WHAT CAN HAPPEN

This can cause serious injury or death.

HOW TO AVOID THE HAZARD

Never transport flammable or dangerous material.

RIDING THE VEHICLE

To fully appreciate the pleasures and excitement of riding this vehicle, there are some basic rules and tips that you **MUST** follow. Some may be new to you while others may be common sense or obvious.

Please take the time to study this Operator's Guide and all on-product safety labels as well as the *SAFETY DVD* video that came with this vehicle. They more completely describe what you should know about this vehicle before riding it.

Whether you are a new user or an experienced rider, it is important for your personal safety that you know the controls and features of this vehicle. Equally important is knowing how to properly ride.

This is a high performance ATV for off-road use only. Inexperienced riders may overlook risks and be surprised by the specific behavior of this ATV in any terrain condition.

Information in this Operator's Guide is limited. It is strongly recommended that you obtain further information and training from your local authorities, ATV clubs, a recognized ATV training organization or contact an authorized Can-Am dealer.

To find out about available training course nearest you, call the Specialty Vehicle Institute of America (SVIA) at 1 800 887-2887 or in Canada, the Canada safety Council (CSC) at 1 613 739-1535.

We recommend following the age recommendation indicated on the safety label affixed on the unit. Even though a person may be within the age group for which this vehicle is recommended, he may not have the skills, abilities, or judgment needed to operate this vehicle safely and may be involved in a serious accident.

Individuals with cognitive or physical impairments or who are high risk takers have an increased exposure to overturns or collisions which may result in injury including death.

This vehicle is designed specifically to carry an operator only. Even with a long seat that provides unrestricted operator movements, it is not designed nor intended to carry passenger(s).

NEVER install passenger seat or use the cargo area to carry passenger(s). Carrying passenger(s) may affect the stability and your control of the vehicle.

Not all vehicles are the same. Each has its own unique performance characteristics, controls and features. Each will ride and handle differently.

Become completely familiar with the operational controls and the general operation of the vehicle before venturing into off road conditions. Practice driving in a suitable area free of hazards and feel the response of each control. Drive at low speeds. Higher speeds require greater experience, knowledge and suitable riding conditions.

Riding conditions vary from place to place. Each is subject to weather conditions which may radically change from time to time and from season to season.

Riding on sand is different than riding on snow or through forests or marshes. Each location may require a greater degree of awareness and skill. Show good judgement. Always proceed with caution. Please do not take any unnecessary risks that could leave you stranded or possibly injured.

Never assume that the vehicle will go everywhere safely. Sudden changes in terrain caused by holes, depressions, banks, softer or harder "ground" or other irregularities may cause the vehicle to topple or become unstable. To avoid this, slow

down and always observe the terrain ahead. If the vehicle does begin to topple or tip over, the best advice is to immediately get off, AWAY from the direction of the tip over!

Pre-Ride Inspection

WARNING

Perform a pre-ride inspection before each ride to detect any potential problem that could occur during operation. The pre-ride inspection can help you monitor component wear and deterioration before they become a problem. Correct any problem that you discover to reduce the risk of a breakdown or crash. See an authorized Can-Am dealer as necessary.

Before using this vehicle, the operator should always perform the following pre-ride inspection check list.

Correct any problem found before riding the vehicle. See an authorized Can-Am dealer if necessary.

Pre-Ride Inspection Check List

What to Do Before Starting the Engine (Key OFF)

ITEMS TO BE INSPECTED	INSPECTION TO PERFORM	✓
Fluids	Check fuel, engine oil and coolant levels.	
Brake fluid	Check brake fluid level	
Leaks	Check for any leaks under vehicle.	
Throttle lever	Activate throttle lever several times to ensure it operates freely. It must return to idle position when released.	
Parking brake	Apply parking brake and check if it operates properly.	
Tires	Check tire pressure and condition. – Front: MIN 41.4 kPa (6 PSI), LOADED 48.3 kPa (7 PSI) – Rear: MIN 41.4 kPa (6 PSI), LOADED 48.3 kPa (7 PSI)	
Wheels	Check wheels for damage and for abnormal play. Check that lug nuts are tightened.	
Radiator	Check cleanliness of the radiator.	
Drive shaft boots	Check drive shaft boots and protectors condition.	
Seat	Check if operator seat is in place and properly latched.	

ITEMS TO BE INSPECTED	INSPECTION TO PERFORM	✓
Cargo	If you transport a cargo, respect the load capacity. Ensure cargo is properly secured to the rear cargo area.	
	If you are pulling a trailer or an other equipment: <ul style="list-style-type: none"> – Check hitch and trailer ball condition. – Respect the tongue capacity and towing capacity. – Ensure trailer is properly secured to hitch. 	
Glove box	Check if glove box is properly locked in position.	
Storage compartments	Check if rear storage compartments are properly latched.	
Chassis and suspension	Check underneath vehicle for any debris on chassis or suspension and clean them properly.	
Engine air filter	Inspect and clean engine air filter	
CVT air filter	Inspect and clean CVT air filter	

What to Do Before Starting the Engine (Key ON)

ITEMS TO BE INSPECTED	INSPECTION TO PERFORM	✓
Multifunction gauge	Check operation of indicator lamps in multifunction gauge (during first few seconds of key ON).	
	Check for messages on multifunction gauge.	
Lights	Check operation and cleanliness of headlights and taillight.	
	Check operation of high and low beam.	
	Check operation of brake light.	

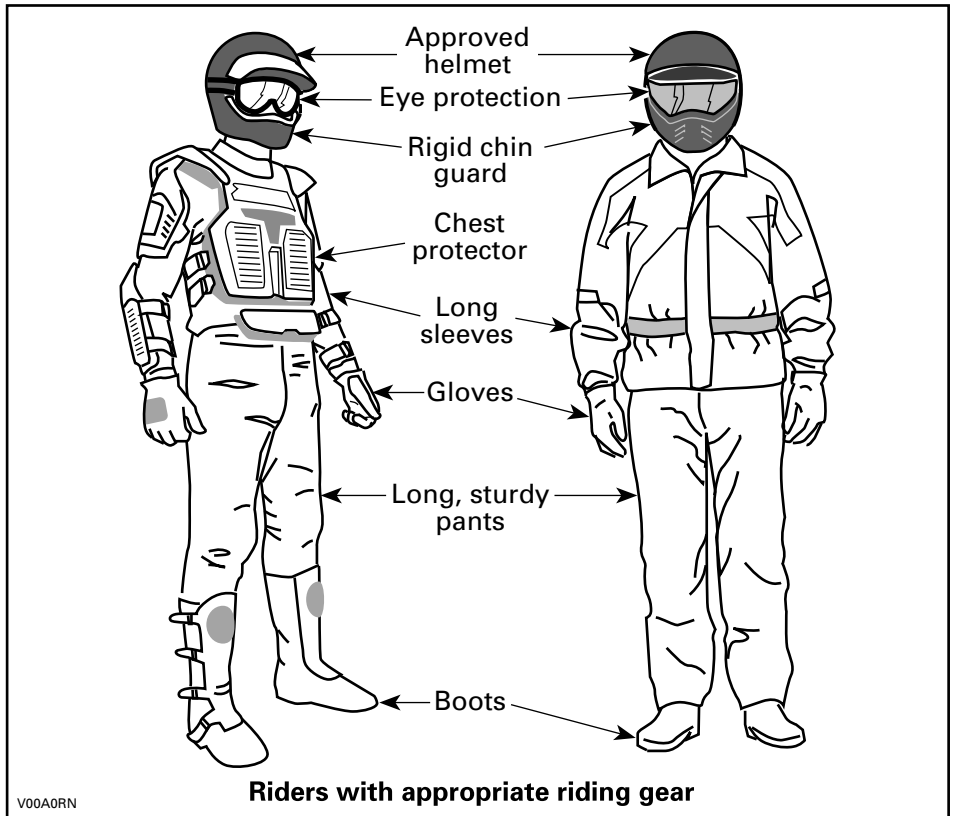
What to Do After the Engine Is Started

ITEMS TO BE INSPECTED	INSPECTION TO PERFORM	✓
Steering	Check if steering operates freely by completely turning it from side to side.	
Shift lever	Check operation of shift lever (P, R, N, H and L).	
2WD/4WD selector	Check operation of 2WD/4WD selector.	

ITEMS TO BE INSPECTED	INSPECTION TO PERFORM	✓
Brakes	Drive forward slowly a few feet and apply brakes individually to test them. The brakes must fully apply. Lever and pedal must fully return when released.	
Emergency engine stop switch	Check that the emergency engine stop switch is working properly.	
Ignition switch	Check if ignition switch is working properly by restarting and stopping the engine.	

Riding Gear

Actual weather conditions should help you decide how to dress. Dress for the coldest weather expected. Thermal underwear next to the skin also provides a good insulation. It is important that the operator always wears the appropriate protective clothing and apparel, including an approved helmet, eye protection, boots, gloves, a long sleeved shirt and pants. This type of clothing will provide you protection from some of the minor hazards you may encounter en route. The operator must never wear loose clothing such as a scarf that may get entangled in the vehicle or on tree branches and shrubs. Depending on conditions, anti-fogging goggles or sunglasses may be required. Different colored lenses available for goggles or sunglasses help you distinguish terrain variations. Sunglasses should only be worn during the daytime.



Carrying a Passenger is Prohibited

This vehicle is designed specifically to carry an operator only. Even with a long seat, this vehicle is not designed nor intended to carry passenger(s). NEVER install passenger seat or use the cargo area to carry passenger(s). Carrying passenger(s) may affect the stability and your control of the vehicle.

Carrying Loads

Any load carried on the vehicle will affect the handling, stability and braking distance of the vehicle. For this reason, do not exceed the load limits of the vehicle's manufacturer. Refer to *MAXIMUM LOADS* table below. Always make sure the load is secured, properly distributed and cannot interfere with your proper control. Always be aware that the "load" may slide or fall off and create an accident. Avoid loads that may protrude sideways and get snagged or caught in brush or other obstacles. Avoid covering and obstructing the headlights or brake light with the cargo.

Safely reduce speed according to terrain conditions when carrying cargo or pulling a trailer. Allow greater distance for braking. Always secure cargo as low as possible on the rear rack to reduce the effect of a higher center of gravity.

MAXIMUM LOADS		
TOTAL LOAD ALLOWED	189 kg (417 lb)	Includes driver, all other loads, tongue weight and added accessories.
REAR CARGO AREA	90 kg (200 lb)	Evenly distributed. Includes rear rack, rear storage box, rear storage compartment and tongue load.

Loading the Cargo Rack

NOTICE When loading or unloading, do not exceed the weight limit of 90 kg (200 lb).

Load cargo as low as possible – a higher load can raise the vehicle's center of gravity, which can reduce stability. Position cargo on the rack as evenly as possible.

Secure the load on the cargo rack. Do not secure cargo to the cage or other part of the vehicle. If it is not properly secured, a load may slide or fall off, possibly striking occupants or bystanders; or it may shift during riding, affecting the handling of the vehicle.

Objects that are high may affect visibility for the driver and may act as projectiles in case of an accident. Loads that protrude sideways can get snagged or caught in bushes, branches or other obstacles. Avoid covering and obstructing the brake lights with the cargo. Ensure no cargo protrudes outside the cargo rack and that cargo will not interfere with your visibility or control of the vehicle.

Do not overload cargo rack.

Never carry gasoline container(s) or any dangerous liquids on the cargo rack.

Hauling a Load (if Equipped with Hitch)

Never pull a load by attaching it to the cage; this can cause the vehicle to tip over. Use only the trailer hitch (if installed) to pull a load.

In an emergency situation, use the recovery hook to recover a stuck vehicle.

When pulling loads with a chain or cable, ensure that there is no slack before starting and maintain tension while pulling.

When pulling loads with a chain or cable, be sure to brake progressively. The inertia of the load could lead to an impact.

When hauling a load, respect the maximum hauling capacity. See *PULLING A TRAILER* subsection.

WARNING

Slack can cause the chain or cable to break and snap back.

When pulling another vehicle, be sure that someone is controlling the pulled vehicle. They must brake and steer to prevent the vehicle from going out of control.

Reduce your speed when hauling a load and turn gradually. Avoid hills and rough terrain. Never attempt steep hills. Allow more distance for braking, especially on inclined surfaces. Be careful not to skid or slide.

Pulling a Trailer (if Equipped with Hitch)

NOTICE A BRP approved rear hitch must be properly installed on the vehicle for hauling trailers.

Riding this vehicle with a trailer substantially increases the risk of toppling, especially on inclined slopes. If a trailer is used behind the vehicle make sure that its hitch is compatible with the one on the vehicle. Make sure the trailer is horizontal with the vehicle. (In some instances a special extension may have to be installed on the vehicle hitch). Use security chains or cables to secure the trailer with the vehicle.

Reduce your speed when pulling a trailer and turn gradually. Avoid hills and rough terrain. Never attempt steep hills. Allow more distance for braking, especially on inclined surfaces. Be careful not to skid or slide.

Improperly loading a trailer may cause loss of control. Respect the recommended maximum hauling capacity and maximum tongue load (Refer to *MAXIMUM HAULING CAPACITY* table). Make sure there is at least some weight on the tongue.

Always make sure load is evenly distributed and safely secured on the trailer; an evenly balanced trailer is easier to control.

Always put the shift lever to L (low range) for hauling a trailer – in addition to providing more torque, operating in low range helps account for the increased load on the rear tires.

When stopped or parked, block the vehicle and trailer wheels from possible movement.

Use caution when disconnecting a loaded trailer; it or its load may topple on you or others.

When hauling a trailer, respect the maximum hauling capacity indicated on the label on the hitch.

MAXIMUM HAULING CAPACITY		
TRAILER LOAD ALLOWED	TONGUE WEIGHT ALLOWED	NOTE
590 kg (1,300 lb)	23 kg (50 lb)	Includes trailer and trailer load. Ensure to properly load the trailer so that tongue is always pushing on hitch support and not pulling on hitch ball.

Working with your Vehicle

Your vehicle can help you perform a number of different LIGHT tasks ranging from snow removal to pulling wood or carrying cargo. A variety of accessories are available from your authorized Can-Am dealer. However, always respect the load and capacities of the vehicle. Overloading of the vehicle can overstress the components and cause failure. To prevent possible injury, it is equally important to follow the instructions and warnings that accompany the accessory. Avoid any physical exertion through lifting or pulling of heavy loads or man powering the vehicle. (Continue to read *RECREATIONAL RIDING* below).

Recreational Riding

This vehicle is designed specifically to perform in mud riding, the ground clearance being increased for such riding conditions. The ground clearance as well as the type of tires may substantially decrease the handling, traction and stability of the vehicle in some trail riding conditions. Reduce your speed in such conditions.

Respect the rights and limitations of others. Stay away from areas designated for other types of off road use. This includes snowmobile trails, equestrian trails, cross country ski trails, mountain bike trails, etc. Never assume there are no other users on the trail. Always stay to the complete right of the trail and do not zig zag to one side of the trail then the other. Be prepared to stop or pull off to the side if another trail user appears in front of you.

Join a local ATV club. It will provide you with a map and advice or inform you where you can ride. If a club does not exist in your area, help to start one. Group riding and club activities provide a pleasurable, social experience.

Always keep a safe distance from other riders. Your judgment of speed, terrain conditions, weather, mechanical condition of your vehicle and the "trust in judgment" you have in others around you will help you make a better choice of appropriate safe distance. This vehicle, like any other motorized vehicle, cannot stop "on a dime".

Before you ride, tell someone where you are planning to travel and your expected time of return.

Depending on the length of your ride, carry additional tools, drinking water, food and emergency equipment. Find out where you can get additional gasoline and oil. Be prepared for the possible conditions you may encounter.

First aid kit	Adjustable wrench
Mobile phone	Knife
Friction tape	Flashlight
A rope	Colored lens goggles
Spare light bulbs	Trail map
Provided tool kit	Snack

Mud Riding

This vehicle is designed specifically for mud riding and unless ridden in ATV trails, it should be run in low range.

Although this vehicle is built for rough terrain, extreme conditions and improper use may lead to premature wear or even failure of certain vehicle components. Avoid jerking steering and/or full steering stroke in very thick mud under high throttle demand.

Inspection and maintenance schedule need to be followed rigorously.

NOTE: Refer to *SUSPENSION ADJUSTMENT* in *TUNE YOUR RIDE* subsection for suspension setting information.

Environment

One of the benefits of this vehicle is that it can take you off the beaten path away from most communities. However, you should always respect nature and the rights of others to enjoy it. Do not ride in environmentally sensitive areas. Do not drive over forest crops or shrubs, nor cut down trees or take down fencing, nor spin your wheels and destroy the terrain. "Tread Lightly".

This vehicle can cause OHV wildfires if debris builds up near the exhaust or other engine hot spots and ignites then falls off into dry grass. Avoid riding in wet areas, through muskeg or tall grass, where debris can build up. Should you ride in those areas, inspect and remove all debris from your engine and hot spots.

Chasing wildlife is in many areas illegal. Wildlife can die of exhaustion after being chased by a motorized vehicle. If you encounter animals on the trail, stop and observe quietly and with caution. It will be one of the better memories of your life.

Observe the rule: "what you take in, carry out". Do not litter. Do not start campfires unless you have permission to do so, and then only away from dry areas. The hazards you may create on the trail may cause injury to others or yourself, even at a later date.

Respect farm lands. Always obtain the permission of the landowner before riding on private land. Respect crops, farm animals and property lines. If you come to a closed a gate, close it again behind you.

Finally, do not pollute streams, lakes or rivers and do not modify the engine or exhaust system, or remove any of its components.

Design Limitation

Although the vehicle is exceptionally rugged for its class, it is still a light vehicle by definition and its operation must be restricted to its proper purpose.

The addition of weight to any part of the vehicle changes its gravitational stability and modifies its performance.

Off-Road Operation

The very nature of off-road operation is dangerous. Any terrain, which has not been specially prepared to carry vehicles, presents an inherent danger where terrain substance and exact steepness are unpredictable. The terrain itself presents a continual element of danger, which must be knowingly accepted by anyone venturing over it.

An operator who takes a vehicle off-road should always exercise the utmost care in selecting the safest path and keeping close watch on the terrain ahead of him. On no account should the vehicle be operated by anyone who is not completely familiar with the driving instructions applicable to the vehicle, nor should it be operated on steep or treacherous terrain.

General Operating and Safety Precautions

Care, caution, experience and driving skill are the best precautions against the hazards of vehicle operation.

Whenever there is the slightest doubt that the vehicle can safely negotiate an obstacle or a particular piece of terrain, always choose an alternate route.

In off-road operation, power and traction, not speed, are important. Never drive faster than visibility and your own ability to select a safe route permit.

Constantly watch the terrain ahead for sudden changes in slopes or obstacles, such as rocks or stumps, that may cause loss of stability, resulting in tip over or rollover.

Never operate the vehicle if the controls do not function normally.

When operating in reverse, check that the path behind the vehicle is free of people or obstacles. Proceed slowly and avoid sharp turns.

When stopped or parked, always set the shift lever to the PARK position and apply the parking brake. This is especially important when parking on a slope. On very steep inclines or if the vehicle is carrying cargo, the wheels should be blocked using rocks or bricks.

Reverse Operation

When operating in reverse, check that the path behind the vehicle is free of people or obstacles. Proceed slowly and avoid sharp turns.

We recommend sitting on your ATV when operating in reverse. Avoid standing up. Your weight could shift forward against throttle lever, causing an unexpected acceleration.

Uphill Driving

Due to configuration, this vehicle has excellent climbing ability, so much so that it is possible to tip over before traction is lost. For example, it is common to encounter terrain situations where the top of the hill has eroded to a point that the hill peak rises very sharply. The vehicle can readily negotiate such a condition, however, in doing so, when the front of the vehicle is driven to a point that the vehicle's balance moves rearward, a tip over can occur.

The same situation may apply if an embedded object causes the front of the vehicle to climb more than desired. If such a situation occurs take an alternate route. Be aware of side hilling dangers when doing so.

It is also wise to know the terrain condition on the other side of the hill or bank. All too often there exists a sharp drop-off that is impossible to negotiate or descend.

Downhill Driving

This vehicle can climb slopes that are steeper than it can safely descend. Therefore, it is essential to assure that a safe route exists to descend a slope before you climb it.

Decelerating while negotiating a slippery downhill slope could "toboggan" the vehicle. Maintain steady speed and/or accelerate slightly to regain control.

Side Hilling

Whenever possible, such operation should be avoided. If necessary, do so with extreme caution. Side hilling on steep inclines could result in rollover. In addition, slippery or loose surfaces could result in uncontrollable side sliding. Do not attempt to turn the vehicle downhill with the slide. Avoid all objects or depressions that will intensify the raising of one side of the vehicle higher than the other, thus causing rollover.

Drop-Offs

This vehicle will "bottom-out" and usually stop if either the front or rear wheels are driven over a drop-off. If the drop is sharp or deep, the vehicle will nose dive and tip over.

WARNING

Avoid negotiating drop-offs. Reverse and select an alternate route.

Riding on Snow Covered Surfaces

When performing the pre-ride inspection, pay special attention to locations on the vehicle where snow and/or ice accumulations may obstruct visibility of the taillight and reflectors, clog ventilation openings, block the radiator and fan, and interfere with the movement of control levers, switches and brake pedal. Before starting with your ATV check the steering, throttle and brake lever and pedal controls for interference free operation.

Whenever an ATV is ridden on a snow covered drive path the tire grip is generally reduced causing the vehicle to react differently to control inputs from the operator. On low grip surfaces, the steering responses are not as crisp and precise, stopping distances are lengthened and acceleration becomes sluggish. Slow down and do not "gun" the throttle. This will only result in spinning of the tires and possibly in an

over steering slide of the vehicle. Avoid hard braking. This will possibly result in a straight line slide of the vehicle. Again, the best advice is to safely reduce speed in anticipation of a maneuver so to give yourself time and distance to regain total vehicle control before it spins out of your control.

As you drive your ATV over a loose snow covered surface, snow dust will be picked up in the wake turbulence of the moving vehicle and transported to contact and accumulate or melt on some exposed components including rotating parts like brake discs. Water, snow or ice may affect the response time of the brake system of your ATV. Even when not required to reduce vehicle speed apply brakes frequently to prevent ice or snow accumulation and to dry brake pads and discs. While doing so in low risk driving situations you will test for grip level and keep yourself alerted to how the vehicle reacts to your control inputs. Always keep brake pedal, footrests, floor boards, brake and throttle levers free of snow and ice. Frequently wipe snow off seat, hand grips, headlights, taillights and reflectors.

The depth of the snow cover may hide rocks, tree stumps or other objects and if it is wet may totally impede the drivability as the vehicle becomes bogged down or completely loses traction in slushy snow. Look far ahead and always be watchful of any visible clues that might indicate the presence of such obstacles. In doubt steer clear. Avoid driving on any frozen body of water before checking that the ice will safely support the ATV, its riders and its load of cargo. Remember that a given thickness of ice may be sufficient to support a snowmobile but not an ATV of an identical weight because of the smaller load bearing surface of the four tire contact patches as compared to that of a snowmobile track and skis.

To maximize comfort and avoid frostbite, always wear clothing and ATV protective equipment appropriate for the weather conditions you will be exposed to during your ride.

At the end of each ride it is a good practice to clean the vehicle body and all moving components (brakes, steering components, drivelines, controls, radiator fan etc.) from any snow or ice accumulations. Wet snow will turn to ice during the shut down period and become more difficult to remove at the next pre-ride inspection.

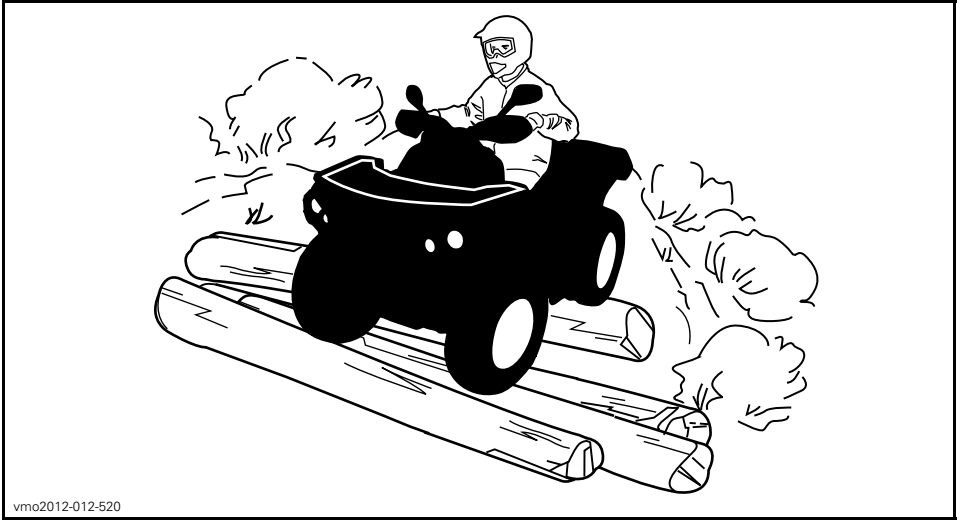
Riding Techniques

Riding your vehicle too fast for the conditions may result in injury. Apply only enough throttle to proceed safely. Statistics show that high speed turns usually result in mishaps and injury. Always remember that this vehicle is heavy! Its pure weight alone may entrap you should it fall and pin you down.

This vehicle is not designed for jumping, nor can it fully absorb the high impact energy generated during manoeuvres such as jumping which, can be passed on to you, the operator. Performing wheelies can cause the vehicle to flip over onto you. Both practices have a high risk for you and should be avoided at all times.

To maintain proper control it is strongly advised that you keep your hands on the handlebar and within easy reach of all controls. The same holds true for your feet. To minimize the possibility of a leg or foot injury, keep your feet on the footrests at all times. Do not direct your toes outwards nor extend your feet out to assist in turning as they can be hit or be snagged on passing obstacles, or may come into contact with the wheels.

Always use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.



Even though there is an adequate suspension system on this vehicle there are “washboard” or rough terrain conditions that will make you feel uncomfortable and can even cause a back injury. “Posting” or riding in a crouched position will often be required. Slow down and allow your flexed legs to absorb part of the impact energy.

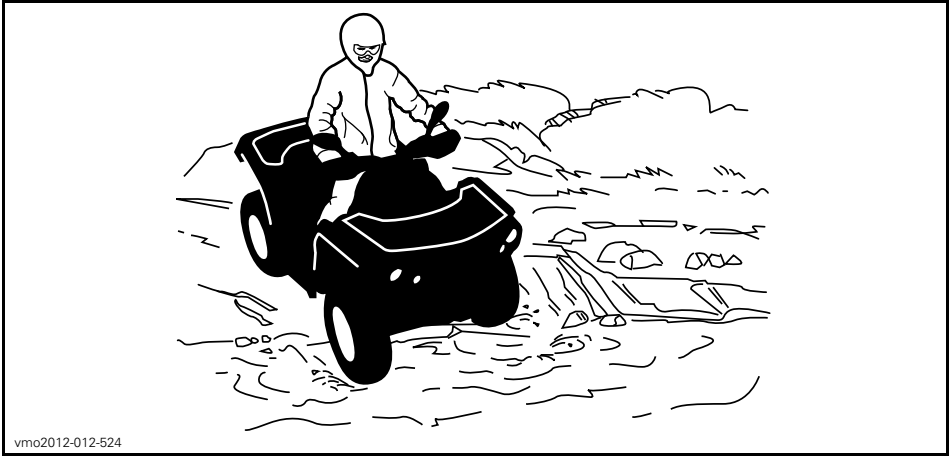
This vehicle is not designed for riding on roads or highways. (In most places it is an illegal practice). Riding your vehicle on roads or highways could cause a collision to occur with another vehicle.

The tires of this vehicle are not suited for paved road use. Also this vehicle is not equipped with a rear differential (rear wheels are always turning at the same speed). For these reasons, pavement may seriously affect the handling and control of the vehicle.

Riding on roads or soft shoulders may confuse other road users, especially if your lights are on.

If you have to cross a road, the lead driver should get off his vehicle, then observe and give directions to the other riders. The last person after crossing then assists the lead driver to cross. Do not travel on sidewalks. They are designated for pedestrian use.

Water can be a unique hazard. If it is too deep the vehicle may “float” and topple. Check the water depth and current before you attempt to cross any water. Water level should not go above the tires. Be wary of slippery surfaces such as rocks, grass, logs, etc., both in the water and on its banks. A loss of traction may occur. Do not attempt to enter the water at high speed. The water will act as a brake and could throw you off the vehicle, on the ground.



Water will affect the braking ability of your vehicle. Make sure you dry the brakes by applying them several times after the vehicle leaves the water.

Mud or marsh lands may be encountered near water. Be prepared for sudden “holes” or changes in depth. Similarly so, be watchful of hazards such as rocks, logs, etc., partially covered by vegetation.

If your route crosses frozen waterways, make sure the ice is thick enough and sound enough to support the total weight of yourself, the vehicle and its load. Be ever watchful of open water, it is a sure indication that the ice thickness will vary. If in doubt, do not attempt to cross.

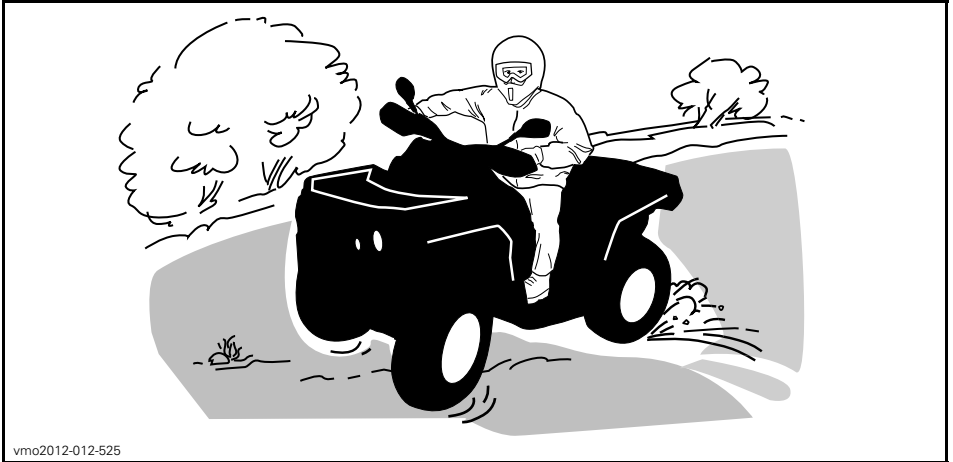
Ice will also affect the control of the vehicle. Slow down and do not “gun” the throttle. This will only result in spinning of the tires and possible tip over of the vehicle. Avoid rapid braking. This again will possibly result in an uncontrolled slide and tip over of the vehicle. Slush should be avoided at all times since it could block the operation or controls of the vehicle.

Riding in snow may reduce the brakes stopping capability. Safely reduce speed and allow greater distance for braking. Snow projection may cause ice build up or snow accumulation on brake components and controls. Apply brakes frequently to prevent ice or snow accumulation. Refer to *GENERAL OPERATING AND SAFETY PRECAUTIONS* in this subsection for more detailed information regarding riding on snow covered surfaces.

Riding on sand, sand dunes or on snow is another unique experience, but there are some basic precautions that should be observed. Wet, deep or fine sand/snow may create a loss of traction and cause the vehicle to slide, drop off or become “bogged” down. If this occurs look for a firmer base. Again, the best advice is to slow down and be watchful of the conditions.

When riding in sand dunes it is advisable to equip the vehicle with an antenna type safety flag. This will help make your location more visible to others over the next sand dune. Proceed carefully should you see another safety flag ahead. Since the antenna type safety flag can snag and rebound on your body if caught, do not use it in areas where there are low hanging branches or obstacles.

Riding on loose stones or gravel is very similar to riding on ice. They will affect the steering of vehicle, possibly causing it to slide and tip over especially at high speeds. In addition, braking distance may be affected. Remember that “gunning” the throttle or sliding may cause loose stones to be ejected rearwards into the path of another rider. Never do it deliberately.



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If you do get into a slide or skid, it may help to turn the handlebar in the direction of the skid until you regain control. Never jam the brakes and lock the wheels.

Respect and follow all posted trail signs. They are there to help you and others.

Obstacles in the “trail” should be traversed with caution. This includes loose rocks, fallen trees, slippery surfaces, fences, posts, and embankments and depressions. You should avoid them whenever possible. Remember that some obstacles are too large or dangerous to cross and should be avoided. Small rocks or fallen trees may be safely crossed, approach at a 90° angle. Stand on the footrests while keeping your knees flexed. Adjust speed without losing momentum and do not “gun” the throttle. Hold handlebar firmly. Place your body weight rearwards and proceed. Do not try to lift the vehicle front wheels off the ground. Be aware that the object may be slippery or may move while crossing.

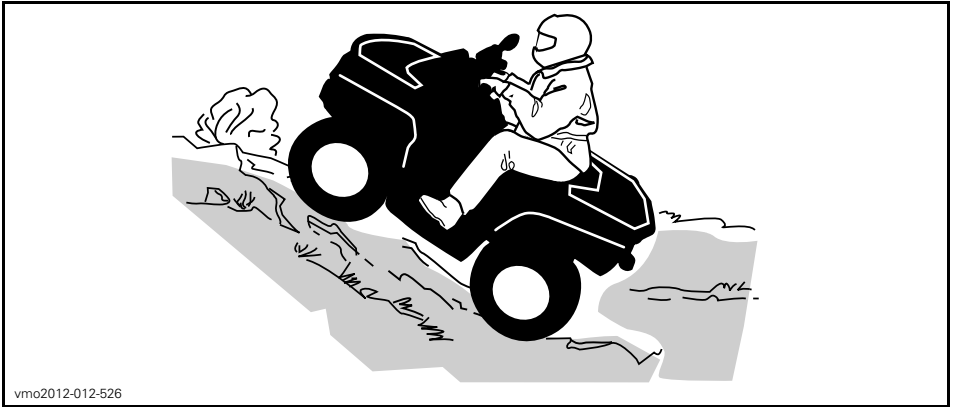
When driving on hills or slopes two things are highly important. Be prepared for slippery surfaces or terrain variations and obstacles and use proper body positioning.

When stopped or parked always apply the parking device. This is especially important when parking on a slope. On very steep inclines or if the ATV is carrying cargo, the wheels should be blocked using rocks or bricks.

Uphill

Before trying to climb a hill, keep these things in mind. Hill Climbing should only be attempted by experienced operators. Start on shallow slopes. Always drive straight uphill and keep your body weight forward towards the top of the hill. Keep your feet on the footrests, shift your ATV into a lower gear and accelerate before you start to climb. Try to keep a steady speed and go easy on the throttle to avoid acceleration. Abrupt slope or terrain variation or rolling one wheel over

an obstacle could have a big impact on the stability as it will lift the front of the vehicle increasing the risk of tipping over. Some hills are too steep to safely stop or recover from after an unsuccessful climbing attempt. Try to avoid steep inclines. If you're not careful, you could tip over when going up hills. If the hill is too steep and you cannot proceed or the vehicle begins to roll backwards, apply the brake, being careful not to slide. Dismount then use the "K" turn (while walking back, next to the vehicle on the up hill side and with a hand on the brake lever, slowly back the rear of the vehicle toward the top of the hill then drive downhill). Always walk or dismount on the upside of the slope while keeping clear of the vehicle and its rotating wheels. Do not try to hold on to the vehicle if it begins to topple. Stay clear. Do not ride over the crest of the hill at high speed. Obstacles, including sharp drop-offs, may exist.

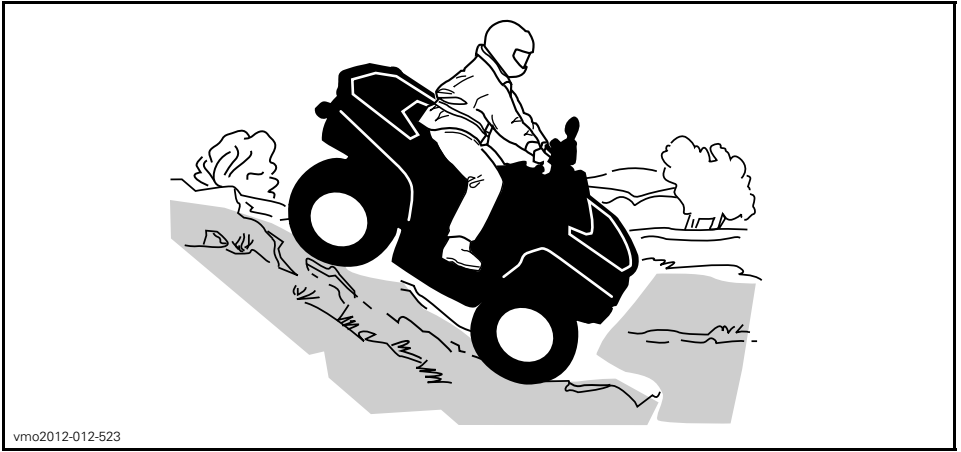


vmo2012-012-526

Downhill

Keep your body weight rearwards. Stay seated. Apply the brake gradually to prevent skidding. Do not "coast" down the slope using solely engine compression or in neutral gear.

Decelerating while negotiating a slippery downhill slope could "toboggan" the vehicle. Maintain steady speed and/or accelerate slightly to regain control. Try to avoid steep inclines. If you're not careful, you could tip over when going down hills.



vmo2012-012-523

Side Hilling

This is one of the **most risky** types of riding since it may drastically change the balance of the vehicle. It should be avoided wherever possible. However, if it is necessary to do so, it is important that you **ALWAYS** keep your body weight on the up-side of the slope and be prepared to dismount on that side should the vehicle begin to topple.

⚠ WARNING

Do not try to stop or save the vehicle from damage.

⚠ WARNING

Be careful when loading and transporting liquid reservoirs. They can affect vehicle stability when side hilling by pulling downhill and increasing the risk of a roll over.















vmo2012-012-527

IMPORTANT ON-PRODUCT LABELS

This vehicle comes with hang tags and labels containing important safety information.

Any person who rides this vehicle should read and understand this information before riding.

Hang Tag

<p>S SPORT MODEL</p> <p>THIS ATV IS FOR RECREATIONAL USE BY EXPERIENCED OPERATORS ONLY.</p> <p>OPERATOR ONLY-NO PASSENGERS</p> <p>NO OPERATOR UNDER AGE 16</p> <hr/> <p>THIS CATEGORY S (SPORT) ATV IS A HIGH PERFORMANCE ATV FOR OFF ROAD USE ONLY. IT IS FOR SPORT TYPE RECREATIONAL AND COMPETITIVE USE BY OPERATORS WITH ADVANCED SKILLS AND SUBSTANTIAL EXPERIENCE.</p> <hr/> <p>TRAINING COURSES TO TEACH ATV RIDING SKILLS ARE AVAILABLE. FOR INFORMATION CONTACT YOUR DEALER.</p> <hr/> <p>CHECK WITH YOUR DEALER TO FIND OUT ABOUT STATE OR LOCAL LAWS REGARDING ATV OPERATION.</p> <p>THIS HANGTAG IS NOT TO BE REMOVED BEFORE SALE.</p> <p>704903318</p>	<p>⚠ WARNING</p> <p>Improper ATV use can result in SEVERE INJURY or DEATH.</p> <table border="0"><tr><td></td><td></td><td></td><td></td></tr><tr><td>ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR.</td><td>NEVER USE ON PUBLIC ROADS.</td><td>NEVER CARRY PASSENGERS.</td><td>NEVER USE WITH DRUGS OR ALCOHOL.</td></tr></table> <p>NEVER operate:</p> <ul style="list-style-type: none">• without proper training or instructions.• at speeds too fast for your skills or the conditions.• on public roads - a collision can occur with another vehicle.• with a passenger - passengers affect balance and steering and increase risk of losing control. <p>ALWAYS:</p> <ul style="list-style-type: none">• use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.• avoid paved surfaces - pavement may seriously affect handling and control. <p>LOCATE AND READ OPERATOR'S GUIDE. FOLLOW ALL INSTRUCTIONS & WARNINGS.</p>					ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR.	NEVER USE ON PUBLIC ROADS.	NEVER CARRY PASSENGERS.	NEVER USE WITH DRUGS OR ALCOHOL.
									
ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR.	NEVER USE ON PUBLIC ROADS.	NEVER CARRY PASSENGERS.	NEVER USE WITH DRUGS OR ALCOHOL.						


704903318

VEHICLE ENGINE DESCRIPTION:
XXXXX

EPA CERTIFIED

NER (NORMALIZED EMISSION RATE) = X
ON A 0 TO 10 SCALE, 0 BEING THE CLEANEST

***NOT TO BE REMOVED PRIOR TO SALE**



704901107

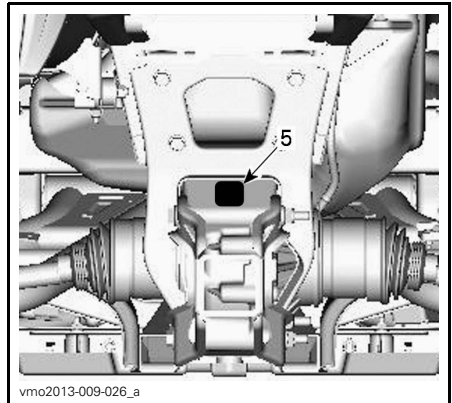
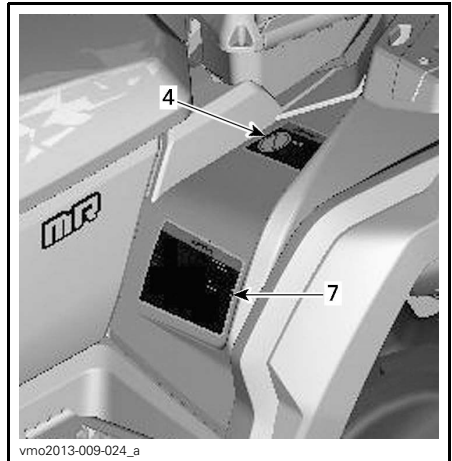
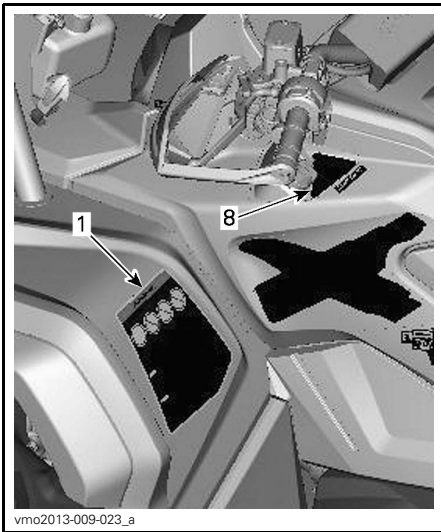
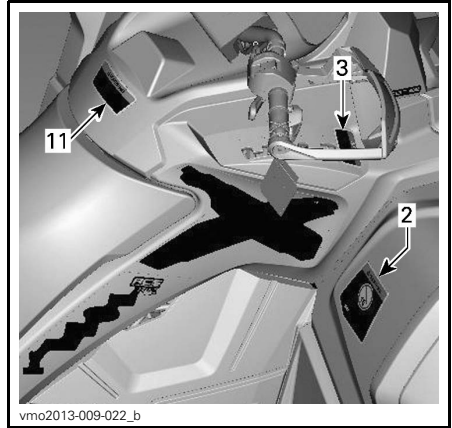
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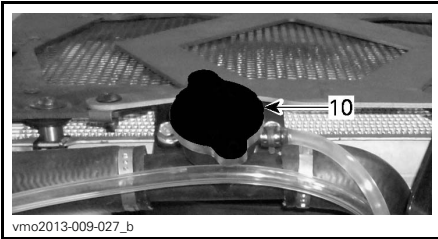
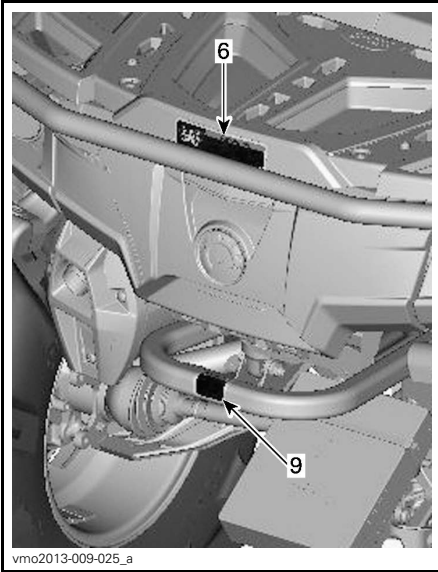
Vehicle Safety Labels

Read and understand all the safety labels on your vehicle. These labels are affixed to your vehicle for the safety of the operator or bystanders.

The safety labels on your vehicle should be considered permanent parts of the vehicle. If missing or damaged, they can be replaced free of charge. See an authorized Can-Am dealer.

NOTE: In the event of any discrepancy between this guide and the vehicle, the safety labels on the vehicle have precedence over the labels in this guide.





WARNING

Improper ATV use can result in SEVERE INJURY or DEATH






NEVER operate:

- without the proper ATV training or instructions.
- at speeds too fast for your skills or conditions.
- on public roads – a collision can occur with another vehicle.
- with a passenger – passengers affect balance and steering and increase risk of losing control.

ALWAYS


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

LOCATE AND READ OPERATOR'S GUIDE
FOLLOW ALL INSTRUCTIONS & WARNINGS.

704902787

LABEL 1

WARNING



Operating this ATV if you are under the age 16 increases the chance of SEVERE INJURY or DEATH.

NEVER operate this ATV if you are under the age 16.

704902775A

LABEL 2

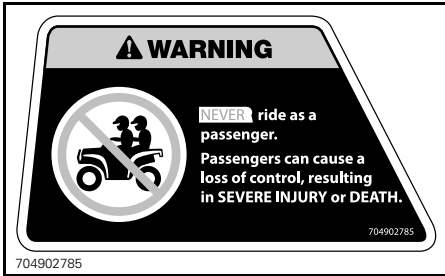
NOTICE

- ATV MUST be stopped before shifting lever.
- ALWAYS apply foot brake to shift from Park (P) and Neutral (N).

704902793

LABEL 3

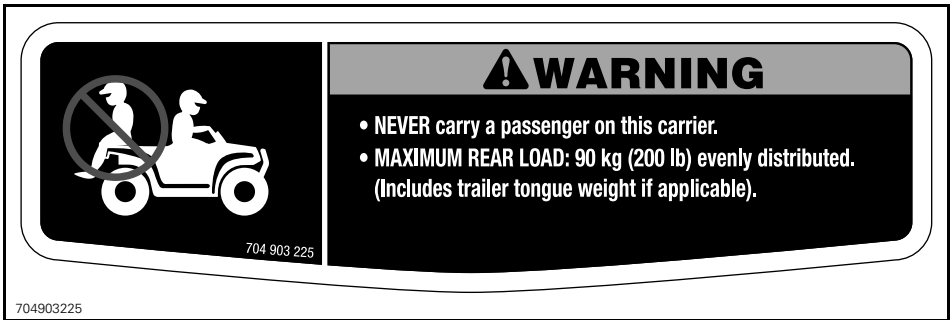
1000 MODELS



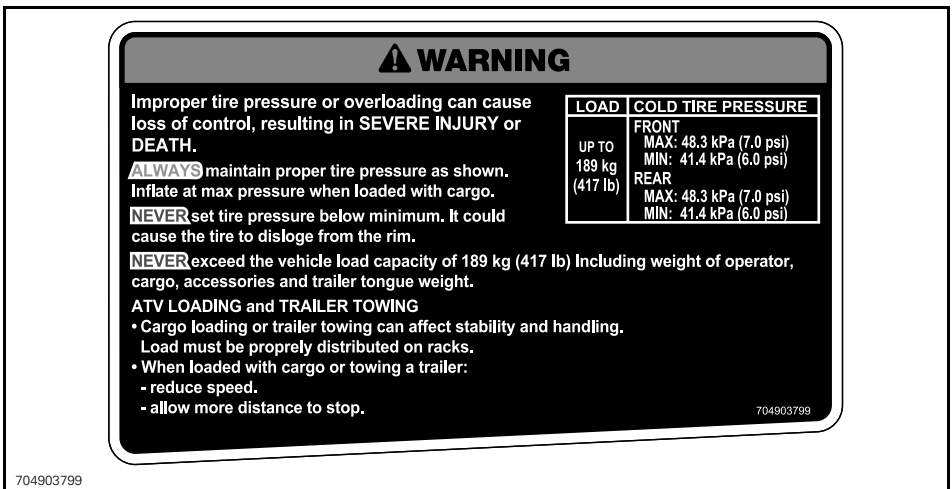
LABEL 4



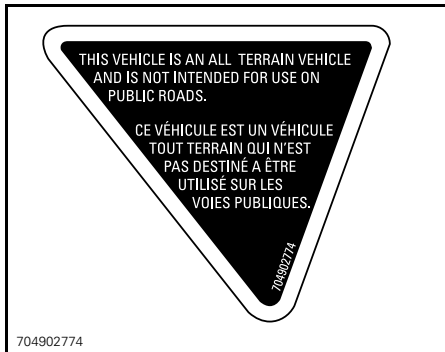
LABEL 5: REFER TO SPECIFICATIONS FOR VALUES



LABEL 6: FRONT AND REAR FENDER (REFER TO SPECIFICATIONS FOR VALUES)



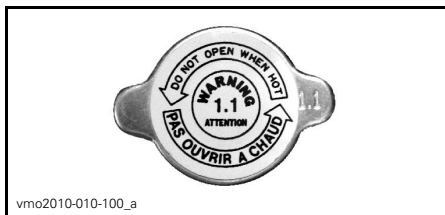
LABEL 7: (REFER TO SPECIFICATIONS FOR VALUES)



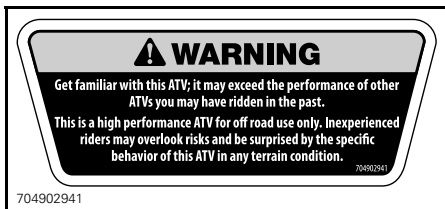
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LABEL 8



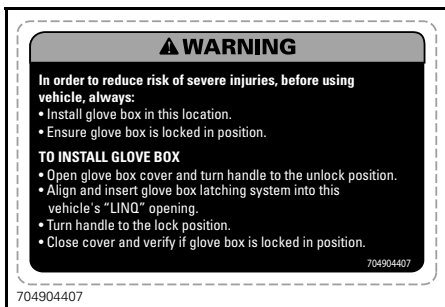
704902777A
LABEL 9



vmo2010-010-100_a
LABEL 10 - LOCATED ON RADIATOR CAP



704902941
LABEL 11



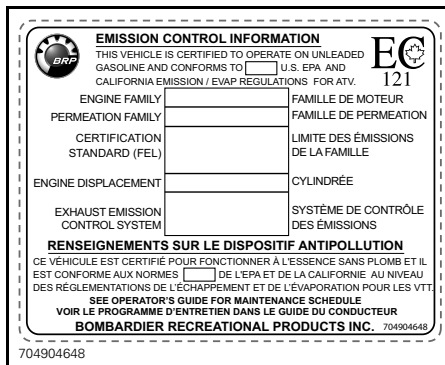
704904407
1000 MODELS
LABEL 12 - LOCATED UNDER GLOVE BOX

Compliance Labels



704904556
LOCATION: UNDER SEAT, ON THE UPPER BAR OF FRAME

These labels indicate vehicle's compliance.

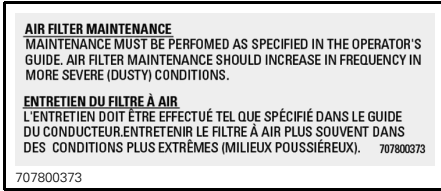


704904648
LOCATION: UNDER SEAT, ON THE UPPER BAR OF FRAME



LOCATION: REAR FENDER

Technical Information Label

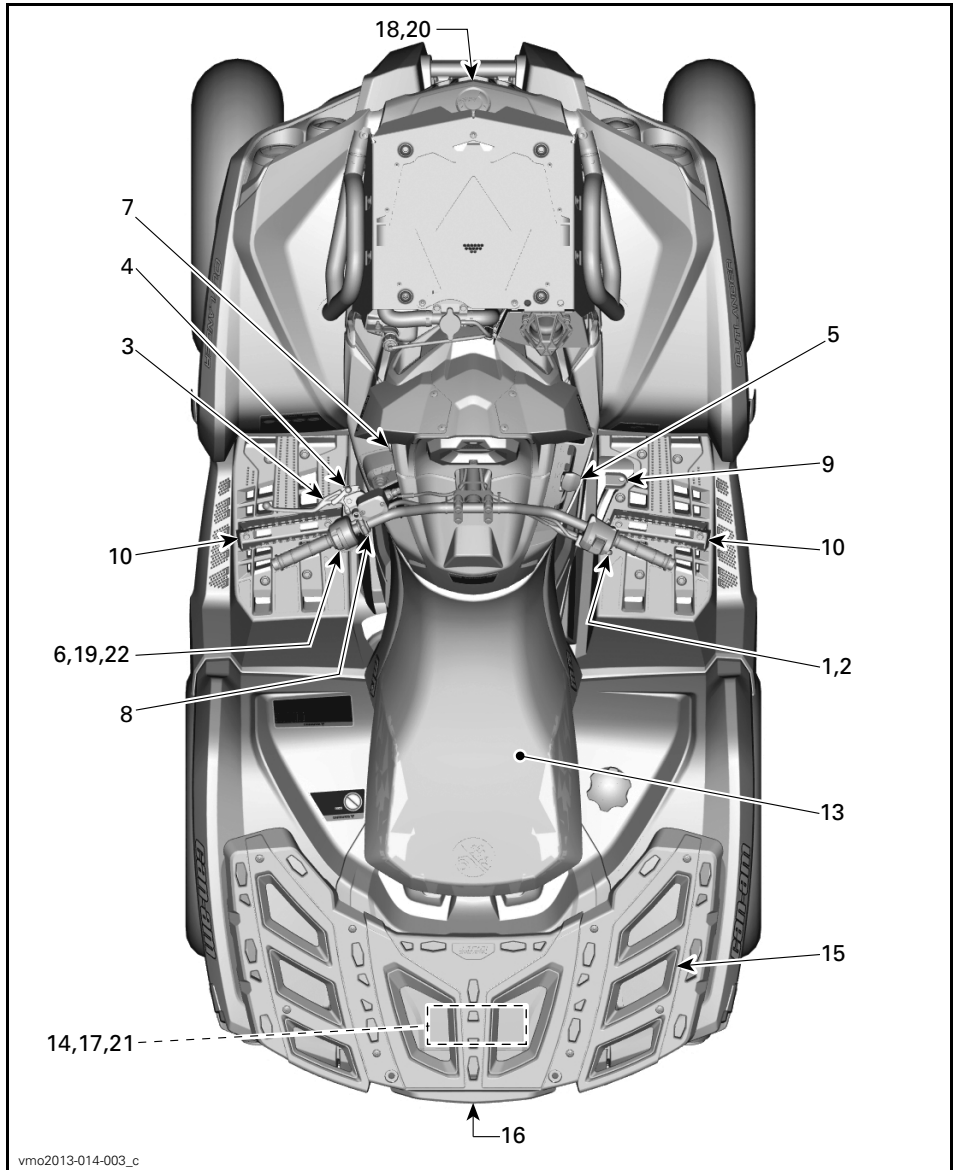


LOCATION: UNDER SEAT, ON THE UPPER BAR OF FRAME

VEHICLE INFORMATION

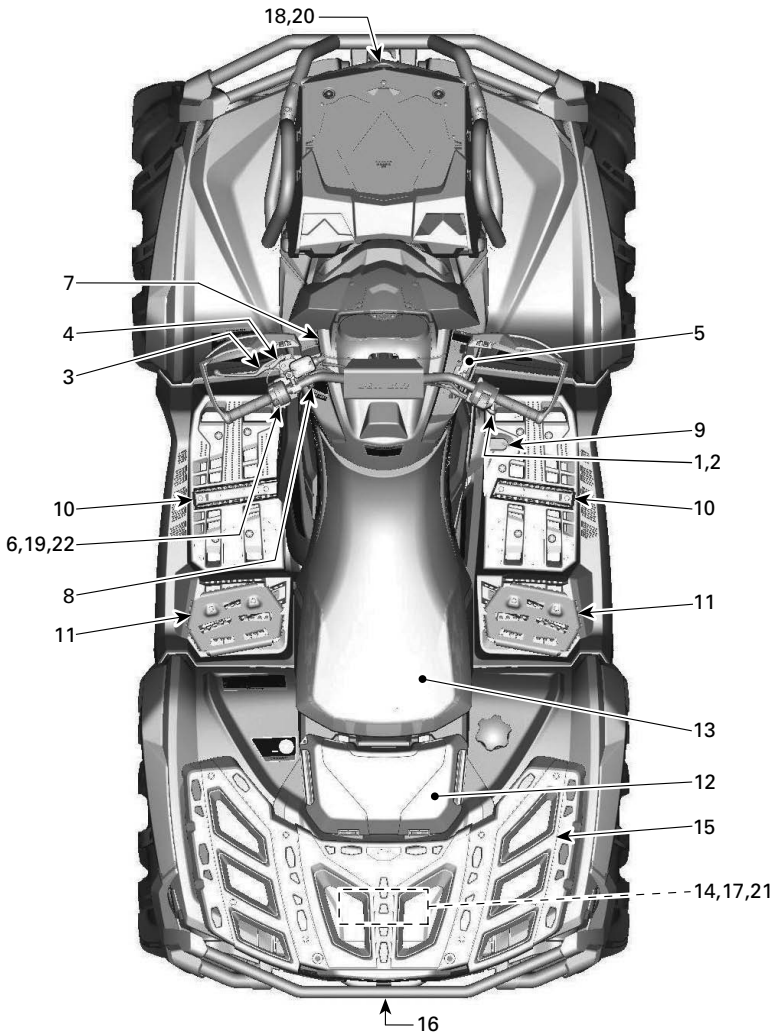
CONTROLS/INSTRUMENTS/EQUIPMENT

NOTE: Some controls/instruments/equipment are optional.



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TYPICAL - 650 AND 800R MODELS



vmo2013-009-031_e

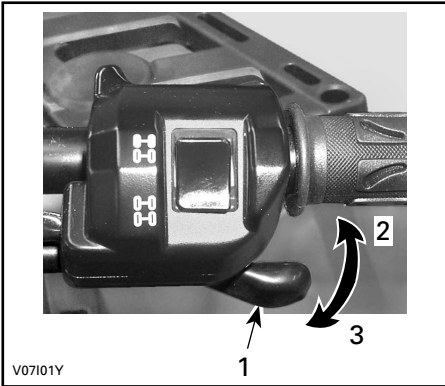
TYPICAL - 1000 MODEL

1) Throttle Lever

The throttle lever is located on the RH side of the handlebar.

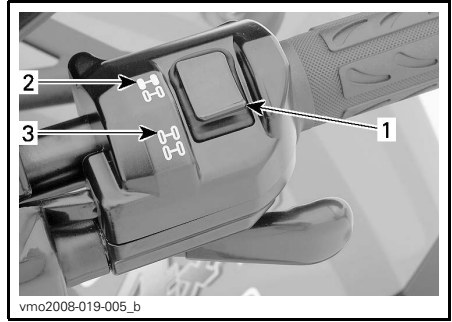
When pushed forward, it increases the engine speed and allows engagement of the transmission on the selected range.

When released, the engine speed should automatically return to idle and the vehicle will gradually slow down.



TYPICAL

1. Throttle lever
2. To accelerate
3. To decelerate



TYPICAL

1. Selector
2. 2WD position
3. 4WD position

NOTICE The vehicle must be stopped to engage or disengage 2WD/4WD selector. Mechanical damage may occur if selector is engaged or disengaged while driving.

NOTICE If the rear wheels are spinning, release the throttle and wait engine return to the idle before selecting the 4WD mode.

The 4WD mode is engaged when the selector is pushed downwards.

2) 2WD/4WD Selector

The 2WD/4WD selector is located on the RH side of the handlebar.

This selector allows to choose between 2WD and 4WD when the vehicle is stopped.

While reading this Operator's Guide, remember that:

⚠ WARNING

Indicates a potential hazard that, if not avoided, could result in serious injury or death.



V0710DY

4WD MODE

To deselect the 4WD mode, press the selector on 2WD.



V0710EY

2WD MODE

When the selector is located on the 2WD, the vehicle is in 2 wheel drive at all time.

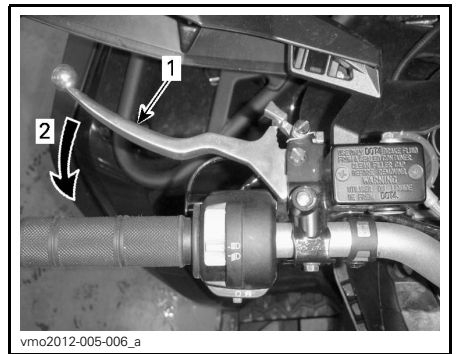
3) LH Brake Lever

When the LH brake lever is pressed the front and rear brakes are applied.

When released the brake lever should automatically return to its original position.

Braking effect is proportional to the force applied on the lever.

NOTE: As on other wheeled vehicles, the vehicle weight is transferred to the front wheels when braking. To obtain greater stopping efficiency, the brake system distributes more braking force to the front wheels. This will affect vehicle handling and steering control when braking vigorously. Take it into account when braking.



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TYPICAL

1. Brake lever
2. To apply brakes

4) Parking Brake

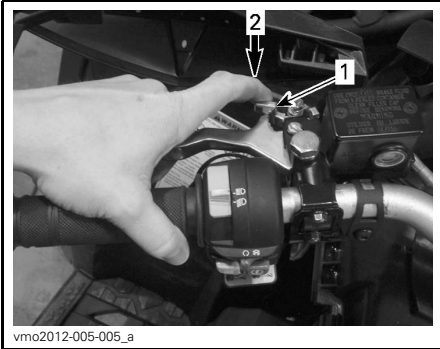
The parking brake is located on the LH side of the handlebar.

When applied, it prevents the vehicle from moving. Useful when the brake needs to be locked for example when doing a K-turn, during transportation or when the vehicle is not in operation.

⚠ WARNING

Always use the parking brake and engage the PARK position on the shift lever when the vehicle is not in operation.

To engage parking brake: Squeeze brake lever and maintain while moving locking lever. Parking brake is now engaged.



TYPICAL

1. Parking brake locking lever
2. Press to apply parking brake

NOTE: Locking lever can be adjusted in different positions to compensate for the brake lever stroke.

⚠ WARNING

Ensure when the parking brake is applied that the vehicle stays securely in place.

To release parking brake: Squeeze brake lever. Locking lever should automatically return to its original position. Brake lever should return to rest position.

⚠ WARNING

Make sure parking brake is fully disengaged before operating the vehicle. When you ride the vehicle, brakes that are caused to drag by a continuous pressure on the lever may cause damage to the brake system and cause loss of braking capacity and/or fire.

5) Shift Lever

The shift lever is located on the RH side of the vehicle near steering column.



SHIFT LEVER LOCATION

The shift lever is used to change the gearbox position.

The shift lever has 5 positions:

SHIFT LEVER POSITIONS	
POSITION	GEAR
P	Park
R	Reverse
N	Neutral
H	High range (forward)
L	Low range (forward)



SHIFT PATTERN

The vehicle must be stopped and brakes applied prior to selecting any gear.

NOTICE This gearbox is not designed to shift while vehicle is moving.

P: Park

The park position locks the gearbox to help prevent vehicle movement.

⚠ WARNING

Always use the PARK (P) position when the vehicle is not in operation. The vehicle can roll if the shift lever is not set to P (PARK).

R: Reverse

The reverse position allows the vehicle to go backwards.

NOTE: In reverse operation, the engine's RPM is limited, thus limiting the vehicle reverse speed.

⚠ WARNING

When driving downhill in reverse, gravity can increase the vehicle speed above the set limited reverse speed.

Neutral

The neutral position disengages the gearbox.

⚠ WARNING

Always use the PARK (P) position when the vehicle is not in operation. The vehicle can roll if the shift lever is set to N (NEUTRAL).

High Range (Forward)

This position selects the high speed range of the gearbox. It is the normal driving speed range. It allows the vehicle to reach its maximum speed.

Low Range (Forward)

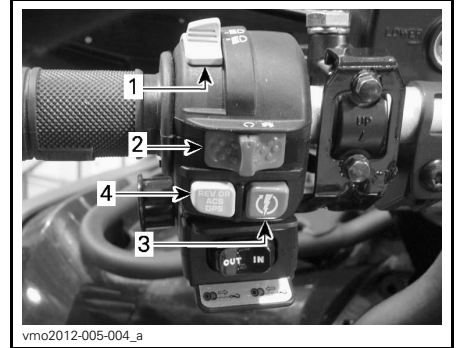
This position selects the low speed range of the gearbox. It allows the vehicle to move slowly with maximum torque at the wheels.

NOTICE Use the low speed range to pull a trailer, carry heavy cargo, go over obstacles or drive uphill and downhill.

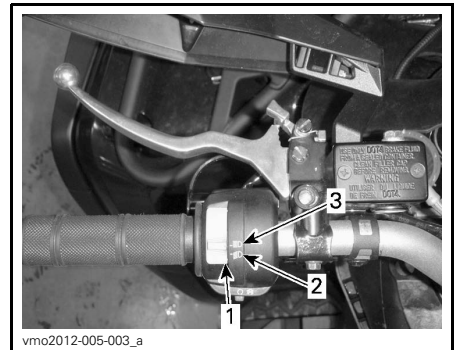
6) Multifunction Switch

The multifunction switch is located on the LH side of the handlebar.

The controls located on this multifunction switch are:

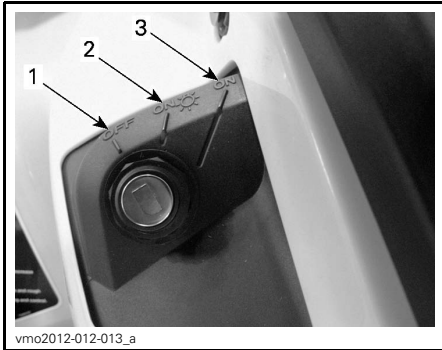
**TYPICAL — MULTIFUNCTION SWITCH**

1. Headlight switch
2. Emergency engine stop switch
3. Engine start button
4. Override/DPS button

Headlight Switch**HEADLIGHT SWITCH FUNCTIONS**

1. Headlight switch
2. Low beam
3. High beam

NOTE: Place ignition switch to ON "without light" position to close the headlight.



IGNITION SWITCH POSITIONS

1. OFF
2. ON "with light"
3. ON "without light"

Emergency Engine Stop Switch

This switch can be used to stop the engine and as an emergency control.

To stop engine, fully release throttle lever then set the emergency engine stop switch to the STOP position.

NOTE: While the engine can be stopped by turning the ignition key to OFF position, we recommend the engine be stopped by setting the emergency engine stop switch to the STOP position.



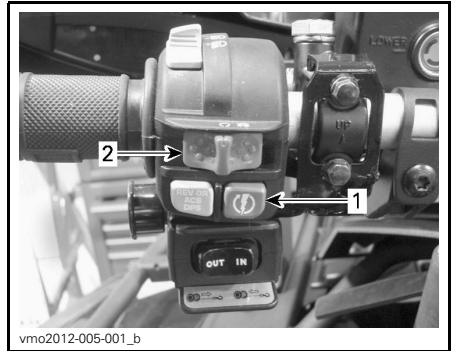
TYPICAL

1. Emergency engine stop switch

Engine Start Button

To start engine, place the emergency engine stop switch to RUN.

Press and hold the engine start button. Release immediately after engine is started.



TYPICAL

1. Engine start button
2. Emergency engine stop switch

NOTE: The engine will not turn over if the emergency engine stop switch and/or the ignition switch are turned to the OFF position.

Override/DPS Button

Depending on the vehicle model, this button has up to 2 functions.



1. Override/DPS button

Override Function

The override switch main function is to bypass the engine speed limiter in reverse operation by allowing maximum engine torque.

⚠ WARNING

Only use the override to help get the vehicle unstuck from mud or other soft terrain. Do not use the override for normal operation in reverse. This would allow driving in reverse at excessive speeds and can increase the risk of losing control.

To engage the override function, proceed as follows:

While the shift lever is set to REVERSE position.

1. Ensure that the vehicle is stopped.
2. Press and hold the override switch then press the throttle lever gradually.

NOTE: When using the override function, the gauge will scroll an **OVER-RIDE** message to confirm that the function is activated.

3. To disengage the override function, simply release the override switch.

DPS Function

This button is also used to change the DPS mode.

To change DPS mode, refer to *TUNE YOUR RIDE* subsection.

7) 12-Volt Power Outlet

Convenient for handheld spotlight or other portable equipment.

While reading this Operator's Guide, remember that:

⚠ WARNING

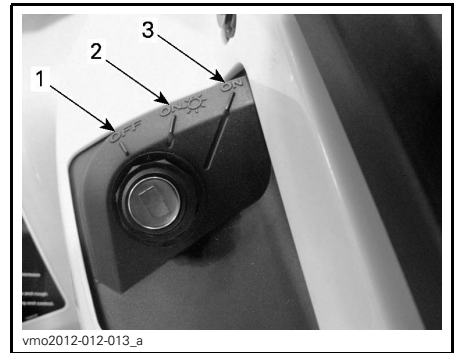
Indicates a potential hazard that, if not avoided, could result in serious injury or death.

Remove protective cap to use. Always reinstall it after use to protect against weather.

Do not exceed the rating capacity. Refer to *SPECIFICATIONS* subsection.

8) Ignition Switch and Keys

The ignition switch is located on the LH side of the central panel below the handlebar.



IGNITION SWITCH POSITIONS

1. OFF
2. ON "with light"
3. ON "without light"

OFF

The key can be inserted or removed in this position only.

In OFF position, the electrical system of the vehicle is disabled.

The engine is shut down by turning the ignition switch to OFF position.

NOTE: While the engine can be stopped by turning the ignition key to OFF position, we recommend the engine be stopped by setting the emergency engine stop switch to the STOP position.

NOTE: When turning the key to OFF position, the vehicle electrical system will take a few seconds to shut down.

ON with Lights

When the key is turned in this position, the electrical system of the vehicle is activated.

The gauge should wake-up.

The vehicle lights are turned on.

The engine can be started.

ON

This position offers the same functions as ON with lights position, except the vehicle lights are turned off.

Digitally Encoded Security System (D.E.S.S.)

The ignition keys contain an electronic circuit that gives it a unique electronic serial number.

The D.E.S.S. system reads the key code and allows engine starting for keys it recognizes.

Types of Keys

This vehicle can be operated using 2 different types of ignition keys:

- Normal key (grey)
- Performance key (black).

The key type is differentiated by its color.

! WARNING

Rollovers, tipovers, collisions and loss of control resulting in serious injury or death are possible with the performance or normal keys. Using the normal key is not a substitute for the operator being prepared, qualified, and operating with care.

Normal Key

The vehicle is delivered with a normal key.

The normal key limits the vehicle rate of acceleration and the vehicle speed to 70 km/h (43 MPH).

! WARNING

On steep downhills, the engine speed limiter may not prevent the vehicle from accelerating beyond this speed.

This key may be useful for riders who prefer more gradual acceleration, or for riding in environments where full speed and high acceleration are not desirable. For example, in narrow, winding trails, operators may prefer the normal key.

Performance Key

The vehicle is delivered with a performance key, which allows the user to access the full torque of the engine as well as the top speed of the vehicle.

This may be useful for riders who prefer crisper throttle response, and for environments where higher speeds and greater acceleration are appropriate. For example, in wide-open, straight trails, operators may prefer the performance key.

9) Brake Pedal

The brake pedal is located on the RH side of the vehicle near engine.

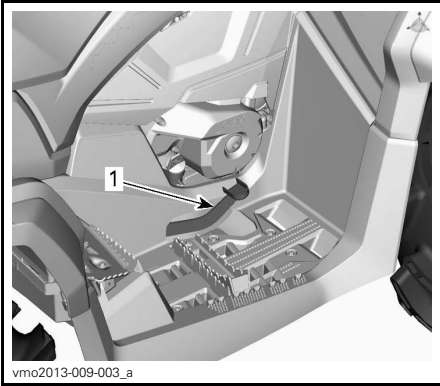
When the brake pedal is pressed down, the rear brake is applied.

When released, the brake pedal should return to its original position.

Braking effect is proportional to the force applied on the pedal.

NOTE: The brake will have also an effect on front wheels through the drive train when 4WD is engaged.

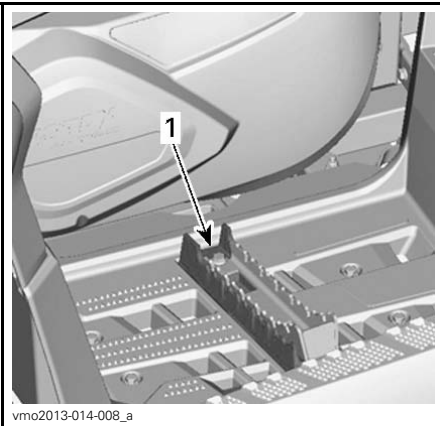
The brake pedal applies the rear brake only. Should the brake lever system fail, the rear brake can be activated by depressing the brake pedal.



1. Brake pedal

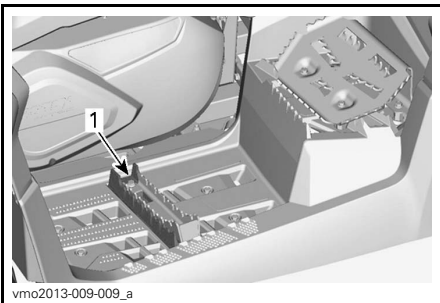
10) Footpegs

The footpegs are located on the RH and LH side of the vehicle near engine.



TYPICAL - 650 AND 800R MODELS

1. Operator's footpeg



TYPICAL - 1000 MODEL

1. Operator's footpeg for normal riding

11) Mud Riding Footrests (1000 Model)

The mud riding footrests are located on the RH and LH side of the vehicle near engine, behind the footpegs.

They provide assistance to the operator for riding in mud.



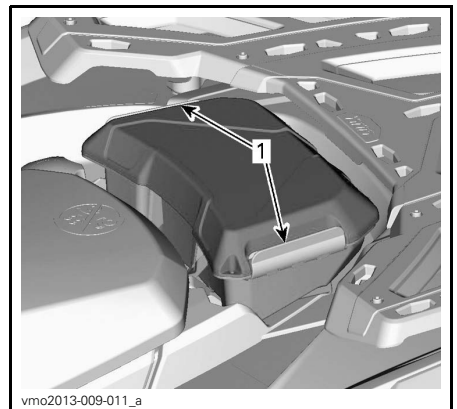
TYPICAL

1. Mud riding footrest

12) Glove Box (1000 Model)

Glove Box Opening

To open glove box, unlock latch on each side of glove box and open lid.

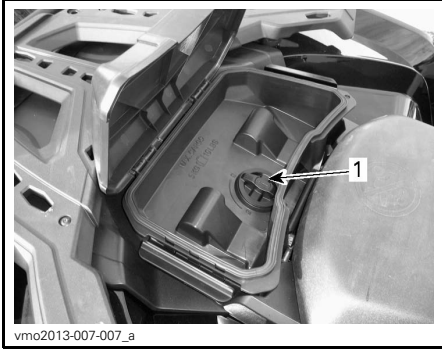


TYPICAL

1. Latches

Glove Box Removal

1. Unlock latch on each side of glove box and open lid.
2. Turn latch counter clockwise to unlock.



TYPICAL
1. Latch

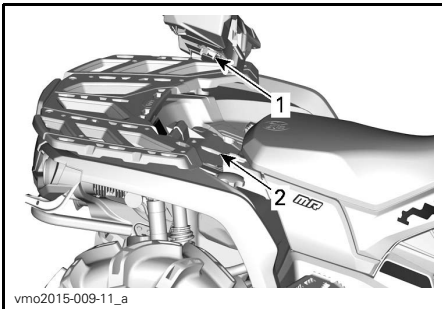
3. Remove glove box.

⚠ WARNING

Never carry a passenger on this vehicle.

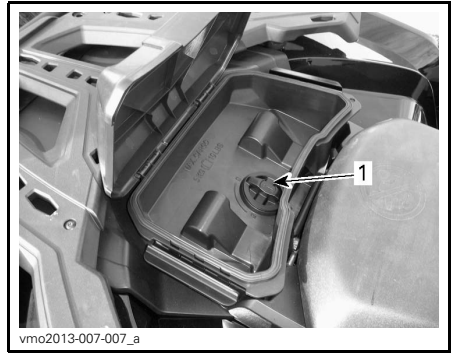
Glove Box Installation

1. Open glove box cover and turn latch to the unlock position.
2. Align and insert glove box latching system into the vehicle's "LINQ" opening.



1. Glove box latch
2. "LINQ" opening

3. Turn latch clockwise to the lock position.



TYPICAL
1. Latch

4. Close cover and verify if glove box is locked in position.

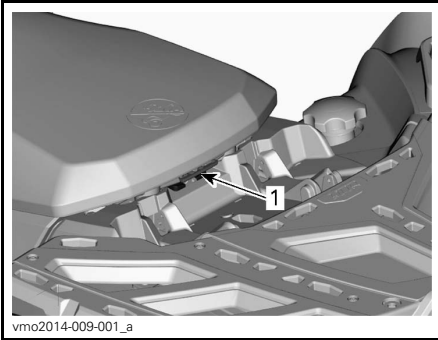


TYPICAL
1. Glove box

13) Seat

Seat Removal

To remove the operator's seat, push its latch forward. This latch is located underneath the rear of seat.



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TYPICAL

1. Seat latch

Pull seat rearward. Continue lifting movement until you can release the front retaining device then completely remove seat.

Seat Installation

Insert front tabs of seat into console openings. When seat rests in its position, firmly push seat down to latch.

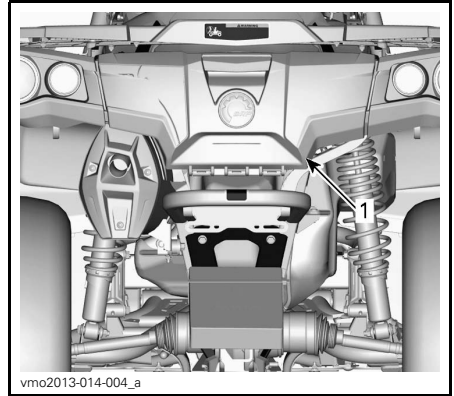
NOTE: A distinctive snap will be felt. Double check that the seat is secure by giving it a tug to confirm proper latching.

⚠ WARNING

It is of the utmost importance for the operator's safety that you confirm that the operator's seat is properly locked in position by pulling back and up several times.

14) Rear Storage Compartment

Convenient location to carry personal articles.



vmo2013-014-004_a

TYPICAL

1. Rear storage compartment cover



vmo2012-012-023_b

TYPICAL

1. Rear storage compartment cover

⚠ WARNING

When engine is running, always engage the PARK position on the shift lever before opening cover. Never leave any heavy or loose breakable objects in the storage area. Always latch cover before riding.

To Open Rear Storage Compartment

Unlatch cover and gently lower cover.



TYPICAL - 1000 MODEL SHOWN
1. Rear storage compartment latch

To Close Rear Storage Compartment

Gently lift and push cover until the latch clicks two times to ensure the seal is compressed.

15) Cargo Racks

Cargo racks are convenient for carrying equipment and various other cargo. They must never be used to carry a passenger.

! WARNING

- Never carry a passenger on a cargo rack.
- Cargo must never interfere with the drivers line of sight or affect his ability to properly steer the vehicle.
- Do not overload the vehicle.
- Always ensure all cargo is properly secured and does not extend out pass the racks.

Refer to *SPECIFICATIONS* subsection for cargo weight recommendations.

16) Trailer Hitch

Convenient hitch to install a ball to tow a trailer or other equipment. Install the proper ball size as per trailer manufacturer recommendations. Refer

to *SPECIFICATIONS* subsection for carrying loads and towing recommendations.



TYPICAL
1. Trailer hitch

! WARNING

Ensure to install the proper ball size that matches the equipment you will tow.

NOTE: Follow manufacturer's instructions for proper attachment.

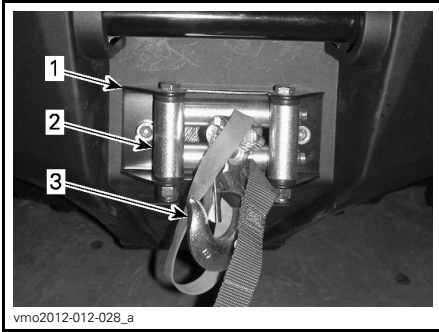
17) Tool kit

The tool kit is located in the rear storage compartment. It contains tools for basic maintenance.

18) Winch (Models Equipped with Winch)

The winch can be actuated using the winch control switch or with the remote control.

NOTE: Using the winch intensively over a long period of time may discharge the battery.



1. Winch
2. Roller fairlead
3. Winch hook

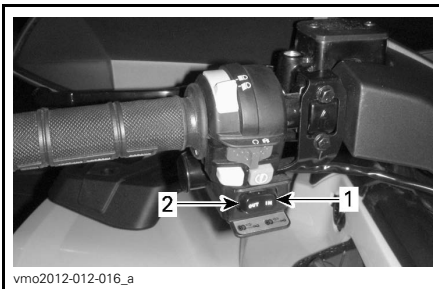
Refer to *BASIC GUIDE TO WINCHING TECHNIQUES* for more information about the winch.

19) Winch Control Switch (Models Equipped with Winch)

Use this switch to roll in or out wire from winch.

To let out the cable, press the left side of switch.

To reel in the cable, press the right side of switch.



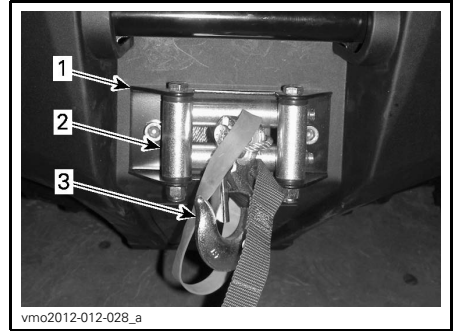
TYPICAL

1. In
2. Out

NOTE: A winch remote control is also provided with the vehicle to ease winch operation if necessary, refer to *WINCH REMOTE CONTROL* further in this subsection.

20) Roller Fairlead (Models Equipped with Winch)

The roller fairlead is used to prevent damage to the vehicle and guide the wire rope into the winch.



1. Winch
2. Roller fairlead
3. Winch hook

21) Winch Remote Control (Models Equipped with Winch)

A winch remote control is provided with the vehicle to ease winch operation if necessary.

The winch remote control is located in the access panel of the rear compartment.



1. Winch remote control

22) Winch Remote Control Connection (Models Equipped with Winch)

To use the winch remote control instead of the handlebar control switch, connect the remote control into the winch remote control connection located under the LH handlebar controls.



TYPICAL

1. Winch remote control connector

NOTICE Always disconnect and store the remote control when not in use.

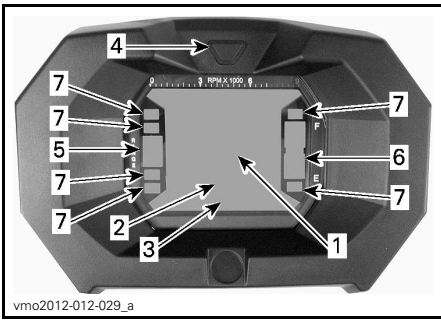
MULTIFUNCTION GAUGE (LCD) (650 AND 800R MODELS)

⚠ WARNING

Reading the multifunction gauge display can distract from the operation of the vehicle, particularly from constantly scanning the environment.

Multifunction Gauge Description

The multifunction gauge is located in the middle of the handlebar.



vmo2012-012-029_a

1. Display 1
2. Display 2
3. Display 3
4. Display selector button
5. Transmission position display
6. Fuel level display
7. Indicator lamps

Speedometer

This display will show vehicle speed.



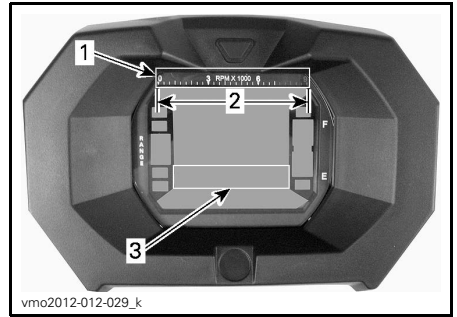
vmo2012-012-029_j

1. Vehicle speed (Display 1)

Tachometer

Measures engine revolutions per minute (RPM). Multiply by 1000 to obtain the actual revolutions.

NOTE: RPM can also be displayed via Display 2 (mode) display. Refer to *DISPLAY 2 (MODE)* in this subsection.

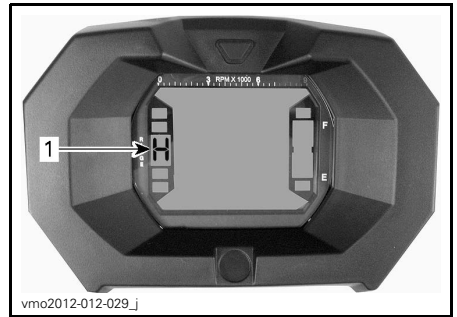


vmo2012-012-029_k

1. Tachometer
2. Operating range
3. Tachometer via display 2 (mode)

Transmission Position Display

This display will show transmission position.



vmo2012-012-029_j

1. Transmission position

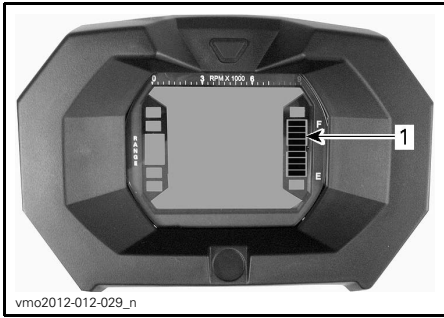
DISPLAY	FUNCTION
P	Park
R	Reverse

DISPLAY	FUNCTION
N	Neutral
H	High gear
L	Low gear

NOTE: If the letter “E” is displayed in the transmission position display, it means that there is an electrical communication error. Contact an authorized Can-Am dealer.

Fuel Level Display

Bar gauge continuously indicates the fuel level in the fuel tank.



1. Fuel level display

Low fuel level Indicator Lamp



When this indicator turns ON, it indicates that there is approximately 5 L (1.3 U.S. gal.) of fuel left in fuel tank.

4WD Indicator Lamp



When this indicator is ON, it indicates the 4WD system is activated.

Brake Lock Indicator Lamp



When this indicator is ON, it indicates the brake is activated for more than 15 seconds (while riding).

High Beam Indicator Lamp



When this indicator is ON, it indicates that high beam is selected.

Check Engine Indicator Lamp



When this indicator is ON, it indicates an engine fault code, look for a message at the LCD display.

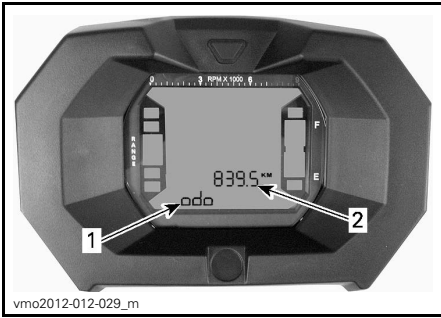
Refer to *TROUBLESHOOTING* section for more details.

Multifunction Gauge Features

⚠ WARNING

Never adjust or set functions on the multifunction gauge while riding the vehicle.

The modes can be displayed by pressing the selector button.



1. Display 2 (mode)
2. Display 3 (mode/message)

Odometer

Records the total distance travelled.

Clock

Shows current time.

Trip Meter

Records the distance travelled since it has been reset.

Press and HOLD display selection button to reset.

Hour Meter (Trip Time)

Records the vehicle running time when the electrical system is activated since it has been reset.

Press and HOLD display selection button to reset.

Engine Hour Meter

Records engine running time.

Engine RPM

Measures engine revolutions per minute (RPM).

Multifunction Gauge Set-Up

⚠ WARNING

Never adjust or set functions on the multifunction gauge while riding the vehicle.

Unit Selection (MPH vs KM/H)

This multifunction gauge is factory preset in Imperial units but it is possible to change it to Metric units, contact an authorized Can-Am dealer for unit settings.

NOTE: All features will have their units changed all together.

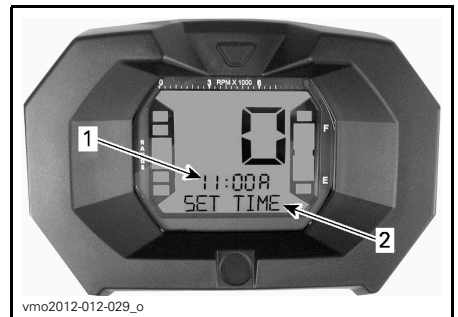
Language Selection

The gauge display language can be changed. Refer to an authorized Can-Am dealer for language availability and setup the gauge to your preference.

Clock Setting

To set current time, proceed as follows:

1. Select the clock display.



1. Time (Display 2)
2. Message (Display 3)

2. Press and HOLD button (SET TIME will appear on display 3).
3. Choose the 12-hour (12H) or 24-hour (24H) format by pressing button.
4. If the 12-hour format was selected, choose Am ("A") or Pm ("P") by pressing button.
5. Choose hour first digit by pressing button.
6. Choose hour second digit by pressing button.

7. Choose minutes first digit by pressing button.
8. Choose minutes second digit by pressing button.
9. Press button to enter settings (CLOCK will appear on display 3).

MULTIFUNCTION GAUGE (ANALOG/DIGITAL) (1000 MODEL)

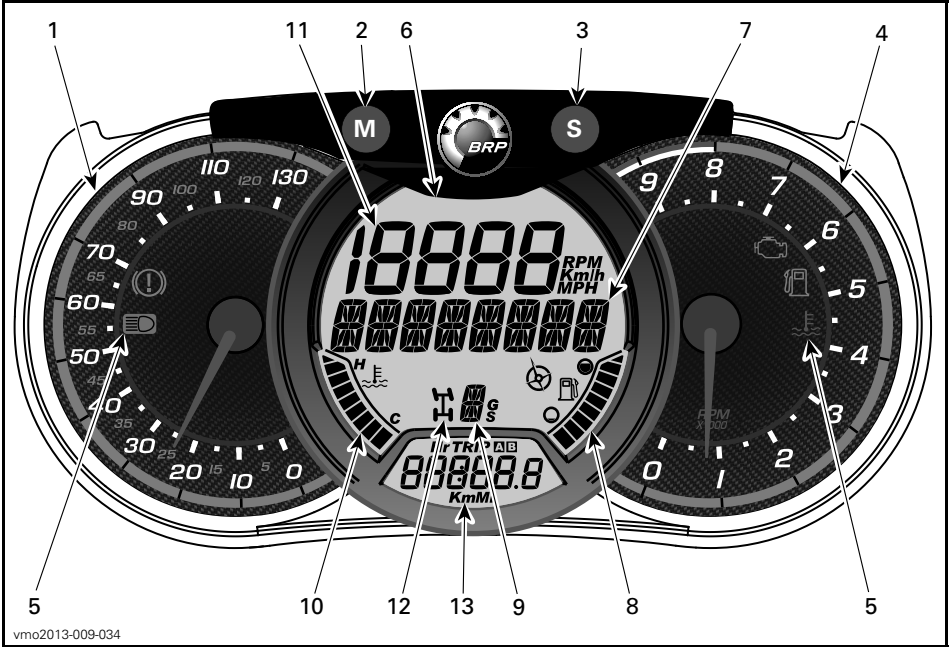
Multifunction Gauge Description

The multifunction gauge (analog/digital) is located on the steering column.

The multifunction gauge (analog/digital) is comprised of a digital gauge and two analog gauges (speedometer and tachometer).

The engine temperature and fuel level bar graphs are comprised in the digital gauge.

The indicators lamps are comprised in both analog gauges.



⚠ WARNING

Do not adjust the display while riding. You could lose control.

1) Analog Speedometer

Measures vehicle speed in km/h or mph.

2) MODE (M) Button

Pressing the MODE (M) button will scroll through the functions of the main digital display.

FUNCTION SEQUENCE	OPTIONS
Numerical Display is flashing	Press SET (S) to scroll and select desired function and press MODE (M) to confirm
Multifunction display is flashing	Press SET (S) to scroll and select desired function and press MODE (M) to confirm

3) SET (S) Button

Pressing the SET (S) button will scroll through the functions of the secondary digital display.

FUNCTION SEQUENCE	INFORMATION DISPLAYED
Clock	XX:XX (24:00 time base) XX:XX A or P (12:00 AM/PM time base)
Cumulative distance odometer	XXXXX.X km or mi
Trip distance — odometer A (TRIP A)	XXXXX.X km or mi

FUNCTION SEQUENCE	INFORMATION DISPLAYED
Trip distance — odometer B (TRIP B)	XXXXX.X km or mi
Engine time chronometer (Hr)	XXXXX.X
Trip time chronometer (HrTRIP)	XXXXX.X

To reset any trip functions, push and hold the MODE (M) button for three seconds.






4) Analog Tachometer (RPM)

Measures engine revolutions per minute (RPM). Multiply by 1000 to obtain actual revolutions.

5) Indicator Lamps

Indicator lamps will inform you of various conditions or problems.

An indicator lamp can flash alone or in combination with another lamp.

INDICATOR LAMP(S)		DESCRIPTION
All indicator lamps	On	All indicator lamps are activated when ignition switch is ON and the engine is not started
	On	Low Fuel
	On	Check Engine
	On	High Engine Temperature
	On	Headlights in the HIGH beam position
	On	Brake is pressed for more than 15 seconds while riding

6) Main Digital Display

Displays useful real-time information to the rider.

7) Multifunction Display

The vehicle speed or the engine revolutions (RPM) can be displayed. See *MODE (M) BUTTON* in this section.

Important messages can also be displayed. Refer to table below.

MESSAGE	DESCRIPTION
BRAKE	Message displayed when the brakes are applied continuously for 15 seconds.
PERFORMANCE KEY	Displayed at power up when a the performance key is used.
OVERRIDE	Override is displayed when the override switch is pressed and the shift lever is set to reverse gear.
MAINTENANCE SOON	Displayed in gauge when vehicle will soon require periodic maintenance. Message can be erased by dealer.

If an abnormal engine condition occurs, a message can be combined with a pilot lamp. Refer to *TROUBLESHOOTING* section for details.

8) Fuel Level Indicator

Bar graph that continuously indicates the level of fuel left in the fuel tank.

9) Gearbox Position Indicator

Displays the selected gearbox position.

10) Engine Temperature Indicator

Bar graph that continuously indicates the engine coolant temperature.

11) Numerical Display

The vehicle speed or the engine revolutions (RPM) can be displayed. See *MODE (M) BUTTON* in this section.

12) 2WD/4WD Indicator

When this indicator is ON, the 4WD system is activated.

13) Secondary Digital Display

Displays useful real time information to the rider. For display function information, refer to *SET (S) BUTTON*.

Gauge Setup

Setting Metric/Imperial Units

See a Can-Am dealer for adjustments.

Setting Clock

1. Press SET (S) button to select clock display.
2. Push and hold SET (S) button for three seconds.
3. Press SET (S) button to select 12:00 AM PM or 24:00 time base.
4. If 12:00 AM PM time base is selected, A or P flashes. Press SET (S) button to select A (AM) or P (PM).
5. Choose hour first digit by pressing SET (S) button.
6. Choose hour second digit by pressing SET (S) button.
7. Choose minutes first digit by pressing SET (S) button.
8. Choose minutes second digit by pressing SET (S) button.
9. Press SET (S) button.

Setting Language

The gauge display language can be changed. Refer to an authorized Can-Am dealer for language availability and setup the gauge to your preference.

FUEL

Fuel Requirements

NOTICE Always use fresh gasoline. Gasoline will oxidize; the result is loss of octane, volatile compounds, and the production of gum and varnish deposits which can damage the fuel system.

Alcohol fuel blending varies by country and region. Your vehicle has been designed to operate using the recommended fuels, however, be aware of the following:

- Use of fuel containing alcohol above the percentage specified by government regulations is not recommended and can result in the following problems in the fuel system components:
 - Starting and operating difficulties.
 - Deterioration of rubber or plastic parts.
 - Corrosion of metal parts.
 - Damage to internal engine parts.
- Inspect frequently for the presence of fuel leaks or other fuel system abnormalities if you suspect the presence of alcohol in gasoline exceeds the current government regulations.
- Alcohol blended fuels attract and hold moisture which may lead to fuel phase separation and can result in engine performance problems or engine damage.

Recommended Fuel

Use common unleaded gasoline with an AKI (R+M)/2 octane rating of 87, or an RON octane rating of 92.

NOTICE Never experiment with other fuels. Engine or fuel system damages may occur with the use of an inadequate fuel.

Inside North America Only

NOTICE Do NOT use fuel from fuel pumps labeled E85.

Use of fuel labeled E15 is prohibited by U.S. EPA Regulations.

Fueling Procedure

WARNING

- Fuel is flammable and explosive under certain conditions.
- Never use an open flame to check fuel level.
- Never smoke or allow a flame or spark in the vicinity.
- Always work in a well-ventilated area.

NOTICE Always clean the surrounding of the fuel cap of any debris, dust, sand to avoid contaminating fuel.

1. Stop engine.

WARNING

Always stop engine before refueling.

2. Do not allow anyone to remain seated on the vehicle while fuelling.
3. Slowly unscrew fuel tank cap counterclockwise to remove it.

WARNING

If a differential pressure condition is noticed (whistling sound heard when loosening fuel tank cap) have vehicle inspected and/or repaired before further operation.

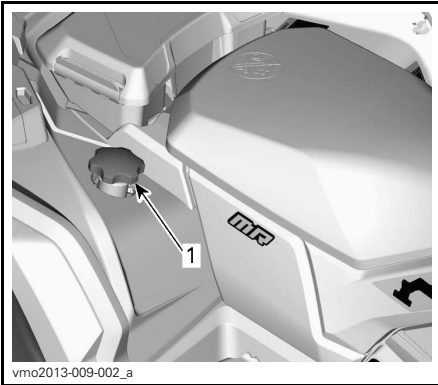
4. Insert the spout in the filler neck.

5. Pour fuel slowly to allow time for the air in the tank to escape and prevent fuel flow back. Be careful not to spill fuel.
6. Stop fuelling when the fuel reaches the bottom of filler neck. **Do not overfill.**

⚠ WARNING

Always wipe off any fuel spillage from the vehicle.

7. Fully tighten fuel tank cap clockwise.



1. Fuel tank cap

⚠ WARNING

Never top up the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and may overflow.

BREAK-IN PERIOD

Operation During Break-In

A break-in period of 10 operating hours or 300 km (200 mi) is required for the vehicle.

After the break-in period, the vehicle should be inspected by an authorized Can-Am dealer. Refer to *MAINTENANCE* section.

Engine

During the break-in period:

- Avoid full throttle operation.
- Maximum throttle should not exceed 3/4.
- Avoid sustained accelerations.
- Avoid prolonged cruising speeds.
- Avoid engine overheating.

However, brief accelerations and speed variations contribute to a good break-in.

Brakes

**WARNING**

New brakes will not operate at their maximum efficiency until their break-in is completed. Use extra caution.

Belt

A new belt requires a break in period of 50 km (30 mi).

During the break-in period:

- Avoid strong acceleration and deceleration (throttle should not exceed 3/4).
- Avoid pulling a load.
- Avoid high speed cruising.

BASIC PROCEDURES

Starting the Engine

The shift lever must be set to PARK or NEUTRAL.

NOTE: For your convenience, an over-ride mode allows the engine to be started with the shift lever in any position. Press and hold the brake lever(s) or the brake pedal while pressing the engine start button.

Insert key in ignition switch and turn to ON position.

Set the emergency engine stop switch to RUN.

Press the engine start button and hold until the engine starts.

NOTICE If engine does not start after a few seconds, do not hold the engine start button more than 10 seconds. Refer to *TROUBLESHOOTING* section.

Release the engine start button immediately when the engine has started.

NOTE: If the battery is dead, engine cannot be started. Have the battery recharged or replaced.

Changing Gear Selection

Apply brakes and select the desired shift lever position.

Release brakes.

NOTICE When changing gear selection, always completely stop the vehicle and apply the brakes prior to moving the shift lever. Otherwise, damage to the transmission may occur.

Stopping the Engine

WARNING

Avoid parking on slope as the vehicle may roll away.

WARNING

Always put the vehicle in PARK when stopped or parked to prevent rolling.

WARNING

Avoid parking in places where hot parts can start a fire.

Release throttle and completely stop the vehicle.

Set shift lever in PARK position.

Apply the parking brake.

Push the emergency engine stop switch to OFF position.

Turn key in ignition switch to OFF position.

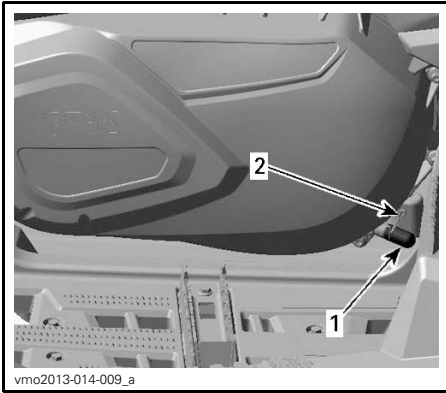
Remove key from ignition switch.

SPECIAL PROCEDURES

What to Do if Water is in the CVT

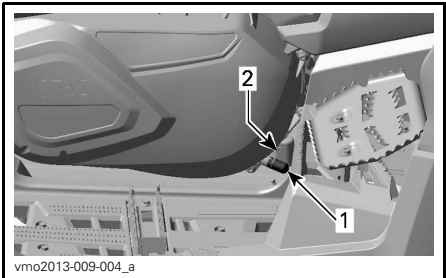
The CVT drain plug is located on the rear portion of the CVT cover. It is accessible from the rear LH fender.

Inspect the CVT drain plug to validate if water is present.



NEAR LH FOOTREST - 650 AND 800 MODELS

1. Drain plug
2. Spring clamp



NEAR LH FOOTREST - 1000 MODEL

1. Drain plug
2. Spring clamp

NOTICE If water entered your CVT while in a muddy environment, limit vehicle usage and bring your vehicle to your nearest authorized Can-Am dealer for a proper CVT cleaning procedure.

If water is present, remove CVT drain plug to expel water.

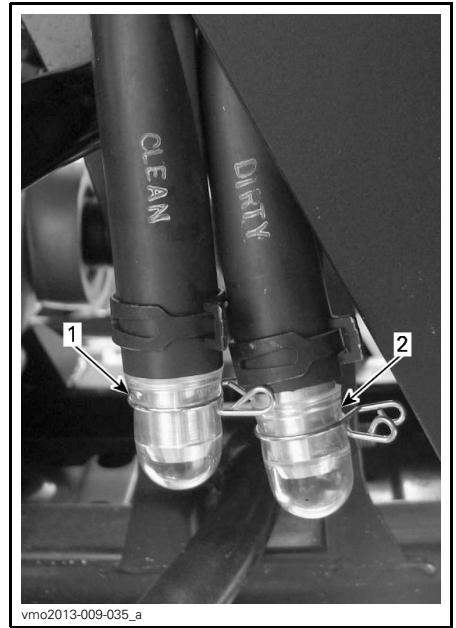
Reinstall the drain plug and secure it using the spring clamp.

NOTE: Make sure drain plug is properly inserted on CVT cover nipple.

NOTICE See an authorized Can-Am dealer to have the CVT inspected and cleaned.

What to Do if Water is in the Air Filter Housing

Inspect the drain reservoirs in the back of the front left wheel inner fender to validate if water is present.



TYPICAL

1. Clean air filter housing drain reservoir
2. Dirty air filter housing drain reservoir

If water is present, press clamps and remove reservoirs to drain water from air filter housing.

If one of the following conditions is met, bring the vehicle to your nearest authorized Can-Am dealer to have the vehicle serviced:

- If more than 50 ml (2 U.S. oz) of water (approximately 5 drain reservoirs) is found in the clean chamber drain hose.
- If any deposits are present in the clean chamber drain reservoir.
- If either hose is obstructed.

In such a case, the vehicle must be serviced for:

- Air filter housing cleaning
- Vents (radiator cooling fan, water pump, coolant reservoir, fuel tank, gearbox, front differential and rear final drive)
- CVT air filter cleaning
- CVT cleaning
- Lubricant inspection and replacement as required (engine, gearbox, front differential and rear final drive).

NOTICE Failure to have vehicle serviced may lead to permanent damage to the following components but not limited to:

- Engine and gearbox
- Fuel pump
- CVT
- Cooling fan
- Front differential
- Rear final drive.

What to Do if Vehicle is Turned Over

When vehicle is turned over or stays tilted on the side, put the vehicle back on its wheels. Inspect vehicle for damages.

⚠ WARNING

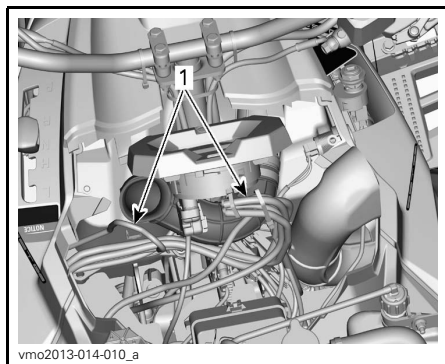
Never operate the vehicle if damaged. Refer to an authorized Can-Am dealer.

If vehicle has no damage, refer to *MAINTENANCE* section and inspect the following.

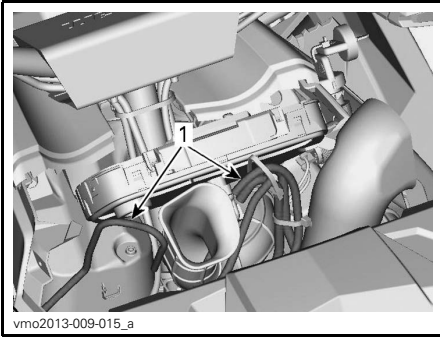
- Inspect air filter housing for oil accumulation, if any oil is found, clean air filter and air filter housing.
- Check engine oil level and refill if necessary.
- Check engine coolant level and refill if necessary.
- Check gearbox oil level and refill if necessary.
- Check rear final drive oil level and refill if necessary.
- Check front differential level and refill if necessary.
- Start engine. If the oil pressure light stays on, stop engine immediately. See an authorized Can-Am dealer.

Whenever the vehicle is turned over, it should be inspected by an authorized Can-Am dealer.

NOTICE When reinstalling dashboard over air filter housing, ensure that all vent hoses are routed properly close to the air duct.



SUPPORT CONSOLE REMOVED FOR CLARITY - 650 AND 800R MODELS
1. Route vent hoses close to air duct



SUPPORT CONSOLE REMOVED FOR CLARITY - 1000 MODEL

1. Route vent hoses close to air duct

What to Do if Vehicle is Immersed in Water

Should the vehicle become immersed, immediately stop the engine. Do not use:

- Any electrical equipments
- Winch

It will be necessary to take the vehicle to an authorized Can-Am dealer as soon as possible. **NEVER ATTEMPT TO START THE ENGINE!**

NOTICE Immersion of the vehicle can cause serious damage if the correct restart procedure is not followed.

As soon as vehicle is pulled out of water, carry out the following:

- Drain air filter housing. See procedure in this subsection.
- Drain CVT. See procedure in this subsection.

NOTICE The vehicle should be serviced as soon as possible by an authorized Can-Am dealer.

TUNE YOUR RIDE

⚠ WARNING

Suspension adjustment could affect vehicle handling. Always take time to familiarize yourself with the vehicle's behavior after any suspension adjustment have been made.

Suspension Adjustment

Suspension adjustment and loading can have an effect on your vehicle handling and comfort.

Choice of suspension adjustments vary with driver's weight, personal preference, riding speed and field condition.

Spring Preload Adjustment

⚠ WARNING

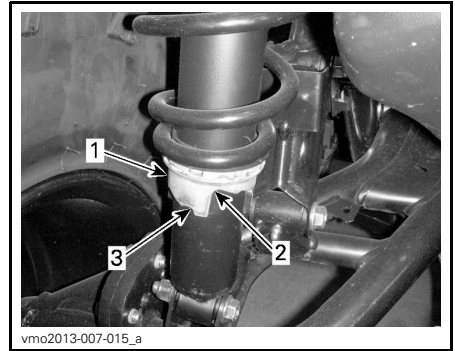
The left and right shock adjustment must always be set to the same position. Never adjust one only. Uneven adjustment can cause poor handling and loss of stability, which could lead to an accident.

Shorten the springs for a firmer ride and rough conditions.

Lengthen the springs for a softer ride and smooth conditions.

650 and 800R Models

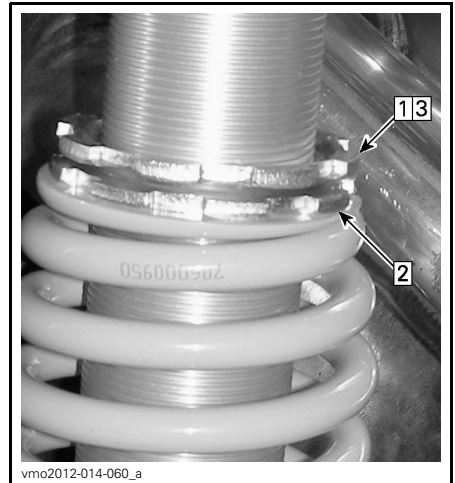
Adjust spring preload by turning adjustment cam. Use tool from vehicle tool kit.



1. Adjustment cam
2. Softer adjustment
3. Firmer adjustment

1000 Model

Adjust spring preload by turning the adjuster ring.



TYPICAL

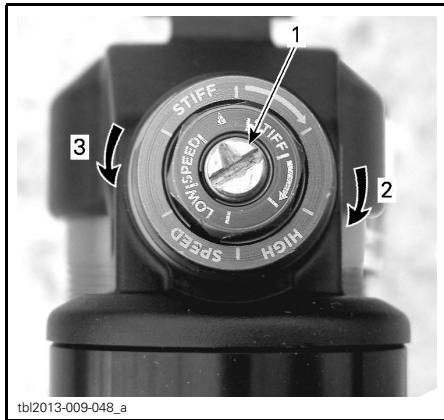
- Step 1: Loosen top locking ring
- Step 2: Turn adjusting ring accordingly
- Step 3: Tighten top locking ring

Shock Damping Adjustments (1000 Model)

Low Speed Compression Damping

Low speed compression damping controls how the shock absorber reacts to a low suspension velocity (slow compression strokes, in most cases when riding at lower speeds).

ACTION	RESULT ON BIG BUMPS
Increasing low speed compression damping force	Firmer compression damping (slow compression)
Decreasing low speed compression damping force	Softer compression damping (slow compression)



LOW SPEED COMPRESSION DAMPING (USE A SCREWDRIVER)

1. Adjustment screw
2. Increases damping (stiffer)
3. Decreases damping (softer)

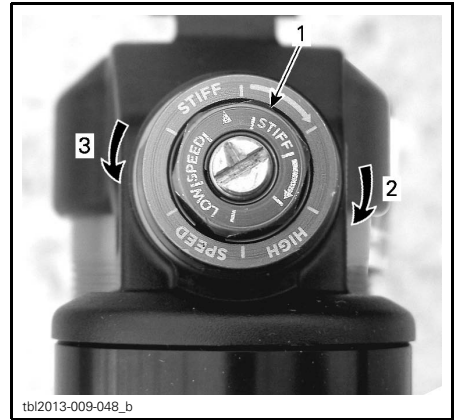
Turn adjuster clockwise (H) to **increase** shock damping action (stiffer).

Turn adjuster counterclockwise (S) to **decrease** shock damping action (softer).

High Speed Compression Damping

High speed compression damping controls how the shock absorber reacts to a high suspension velocity (quick compression strokes, in most cases when riding at higher speeds).

ACTION	RESULT ON SMALL BUMPS
Increasing high speed compression damping force	Firmer compression damping (fast compression)
Decreasing high speed compression damping force	Softer compression damping (fast compression)



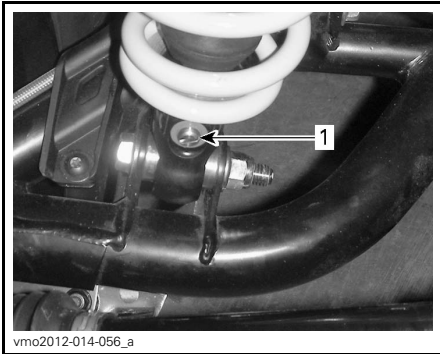
HIGH SPEED COMPRESSION DAMPING (USE A 17 MM WRENCH)

1. Adjustment screw
2. Increases damping (stiffer)
3. Decreases damping (softer)

Turn adjuster clockwise (H) to **increase** shock damping action (stiffer).

Turn adjuster counterclockwise (S) to **decrease** shock damping action (softer).

Rebound Damping



1. Rebound adjuster (screwdriver required)

Turn adjuster clockwise (H) to **increase** shock damping action (stiffer).

Turn adjuster counterclockwise (S) to **decrease** shock damping action (softer).

Steering Assist Adjustment (DPS)

The applicable models are equipped with a Dynamic Power Steering (DPS) system. The DPS reduces the effort to turn the handlebars.

The following DPS modes are preset in the vehicle.

DPS MODE	
DPS MAX.	Maximum steering assist
DPS MED.	Medium steering assist
DPS MIN.	Minimum steering assist

To show the active DPS mode, proceed as follows:

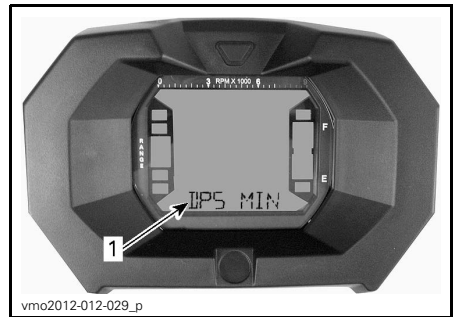
1. Press and release **DPS** button.



TYPICAL - 1000 MODEL SHOWN

1. DPS button

2. Check the multifunction gauge to confirm the active DPS mode.



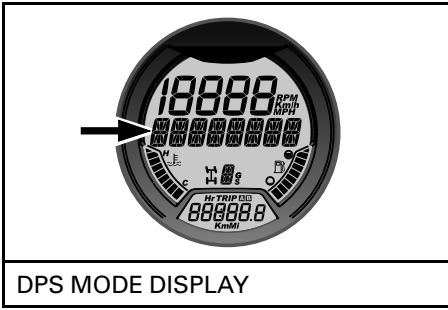
TYPICAL - LCD GAUGE

1. DPS mode (Display 3)

While reading this Operator's Guide, remember that:

WARNING

Indicates a potential hazard that, if not avoided, could result in serious injury or death.



To change the DPS mode, proceed as follows:

1. Press and hold **DPS** button for 2 seconds to go to the next setting.
2. Release **DPS** button.
3. Repeat until desired setting is selected.

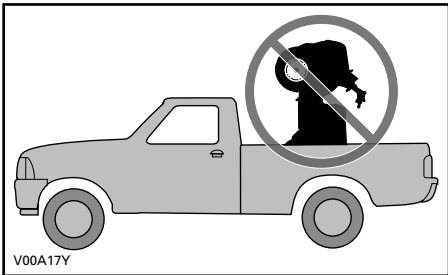
NOTE: The DPS adjustment will not be possible if the vehicle transmission is set to **REVERSE**.

VEHICLE TRANSPORTATION

When transporting this vehicle, secure it to a trailer or in pickup box with suitable tie-downs. Use of ordinary ropes is not recommended.

⚠ WARNING

Do not tow this vehicle behind a car or other vehicle. Use a trailer. Never tip this vehicle on end for transporting. The vehicle must be in its normal operating position (on all four wheels).



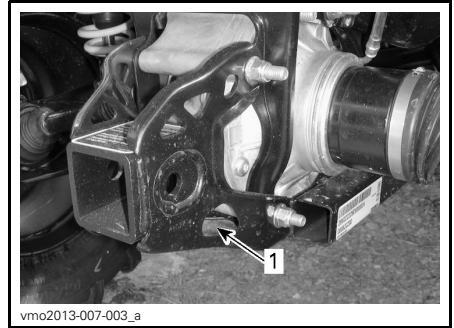
Remember to:

- Unload vehicle racks before transportation.
- Set shift lever to PARK position.
- Set the parking brake.
- Secure the vehicle by the front and rear tie-down points.

NOTICE Always tow this vehicle facing the same direction as the towing vehicle.



TYPICAL - 1000 MODEL
1. Front tie-down point location



1. Rear tie-down point location

NOTICE Securing vehicle at other locations may damage the vehicle.

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intentionally blank***

MAINTENANCE

BREAK-IN INSPECTION

BRP suggests that after the first 10 hours or 300 km (200 mi) of operation, whichever comes first, your vehicle be inspected by an authorized Can-Am dealer. The break-in inspection is very important and must not be neglected.

NOTE: The break-in inspection is at the expense of the vehicle owner.

We recommend that this inspection be signed by an authorized Can-Am dealer.

Date of inspection

Authorized dealer signature

Dealer name

BREAK-IN INSPECTION
Replace engine oil and filter
Check valve clearance and adjust as required
Inspect engine air filter
Inspect battery connections
Replace gearbox oil
Clean vehicle speed sensor

MAINTENANCE SCHEDULE

Maintenance is very important for keeping your vehicle in safe operating condition. Proper maintenance is the owner's responsibility. The vehicle should be serviced as per the maintenance schedule.

The maintenance schedule does not exempt the pre-ride inspection or post operation care.

WARNING

Failure to properly maintain the vehicle according to the maintenance schedule and procedures can make it unsafe to operate.

Follow the appropriate maintenance intervals according to the environment where the vehicle is used: normal environment or extreme environment (mud, water, dust).

POST OPERATION CARE AFTER EACH USE IN AN EXTREME ENVIRONMENT
Rinse the vehicle and its components with fresh water
Clean the CVT air filter (refer to <i>MAINTENANCE PROCEDURES</i> subsection)
Drain the CVT compartment (and clean if any water or mud is found)
Inspect and clean engine air filter. Clean if any water or mud is found (refer to <i>MAINTENANCE PROCEDURES</i> subsection)
Inspect and drain the air filter housing (and clean if any water or mud is found) (refer to <i>MAINTENANCE PROCEDURES</i> subsection)
Clean radiator (refer to <i>MAINTENANCE PROCEDURES</i> subsection)
Visually inspect for any water accumulation in the vent hoses (fuel tank, gearbox, front differential and rear final drive). If there is water, bring the vehicle to your nearest authorized Can-Am dealer for inspection and servicing of main components related to the vents
Carefully clean front and rear shock absorbers to prevent seal damage from dust or dirt

**EVERY 750 KM (500 MI) OR 25 HOURS OF OPERATION IN SEVERE RIDING CONDITIONS (DUSTY OR MUDDY) OR CARRYING HEAVY LOADS CONDITION (WHICHEVER COMES FIRST)
EVERY 1 500 KM (1,000 MI) OR 50 HOURS OF OPERATION IN TRAIL RIDING CONDITIONS (WHICHEVER COMES FIRST)**

Inspect and clean engine air filter. Replace as needed

Inspect and clean CVT air filter and replace as needed (800R/1000 Models)

Check battery connections

Inspect front differential/rear final drive oil level

Lubricate front and rear propeller shaft joints

Inspect tie rod end and ball joints

Lubricate front suspension arms

Lubricate upper shock absorber spherical bearings

Inspect and lubricate rear anti-sway bar bushings

Inspect the drive shaft boots and protectors

Inspect brake pads

**EVERY 1 500 KM (1,000 MI) OR 50 HOURS OF OPERATION IN SEVERE RIDING CONDITIONS (DUSTY OR MUDDY) OR CARRYING HEAVY LOADS CONDITION (WHICHEVER COMES FIRST)
EVERY 3 000 KM (2,000 MI) OR 100 HOURS OF OPERATION IN TRAIL RIDING CONDITIONS (WHICHEVER COMES FIRST)**

Replace engine oil and filter

Inspect and adjust valve clearance

Inspect and clean muffler spark arrester

Inspect and clean throttle body

Inspect, clean and lubricate throttle cable

Replace fuel vent breather filter

Inspect CVT drive belt

Inspect, clean and lubricate CVT drive and driven pulleys (including one-way bearing)

Check gearbox oil level and condition

Inspect wheel bearings (check for abnormal play)

Inspect steering system (check for abnormal play)

**EVERY 1 500 KM (1,000 MI) OR 50 HOURS OF OPERATION
IN SEVERE RIDING CONDITIONS (DUSTY OR MUDDY) OR
CARRYING HEAVY LOADS CONDITION (WHICHEVER COMES FIRST)
EVERY 3 000 KM (2,000 MI) OR 100 HOURS OF OPERATION IN TRAIL
RIDING CONDITIONS (WHICHEVER COMES FIRST)**

Inspect and clean brake system

Replace rear final drive oil

Check battery condition and connections

**EVERY 3 000 KM (2,000 MI) OR 100 HOURS OF OPERATION
IN SEVERE RIDING CONDITIONS (DUSTY OR MUDDY) OR
CARRYING HEAVY LOADS CONDITION (WHICHEVER COMES FIRST)
EVERY 6 000 KM (4,000 MI) OR 200 HOURS OF OPERATION IN TRAIL
RIDING CONDITIONS (WHICHEVER COMES FIRST)**

Check cooling system and perform a pressure test on pressure cap and cooling system

Check engine coolant strength

Check fuel system condition and perform a fuel system leak test

Clean the fuel pump pre-filter

Carry out a fuel pump pressure test

Replace spark plugs

Replace front differential oil

Replace gearbox oil

Inspect gearbox and differential seals

Clean vehicle speed sensor

Replace the brake fluid

Clean and lubricate lower and upper steering column half bushings

**EVERY 5 YEARS OR EVERY 6 000 KM (4,000 MI) IN SEVERE
RIDING CONDITIONS (DUSTY OR MUDDY) OR CARRYING
HEAVY LOADS CONDITION (WHICHEVER COMES FIRST)
EVERY 5 YEARS OR 12 000 KM (8,000 MI) IN TRAIL RIDING
CONDITIONS (WHICHEVER COMES FIRST)**

Replace engine coolant.

MAINTENANCE PROCEDURES

This section includes instructions for basic maintenance procedures. If you have the necessary mechanical skills and the required tools, you can perform these procedures. If not, see your authorized Can-Am dealer.

Other important items in the maintenance schedule that are more difficult and require in-depth technical knowledge or special tools are best performed by your authorized Can-Am dealer.

⚠ WARNING

Turn off the engine and follow these maintenance procedures when performing maintenance. If you do not follow proper maintenance procedures you can be injured by hot parts, moving parts, electricity, chemicals or other hazards.

⚠ WARNING

Should removal of a locking device be required (e.g. lock tab, self-locking fastener, etc.), always replace it with a new one.

Air Filter

Air Filter Maintenance Guideline

As with any ATV, air filter maintenance is critical to ensure proper engine performance and life span.

Air filter maintenance should be adjusted according to riding conditions.

Air filter maintenance must be increased in frequency and oil must be added to the foam filter element for the following dusty conditions:

- Riding on dry sand
- Riding on dry dirt covered surfaces
- Riding on dry gravel roads or similar conditions.

NOTE: Riding in a group in these conditions would increase even more the air filter maintenance. Refer to *AIR FILTER CLEANING AND OILING* in this subsection for maintenance procedure.

NOTE: An accessory pre-filter for "dusty conditions" may be used. Contact an authorized Can-Am dealer for details.

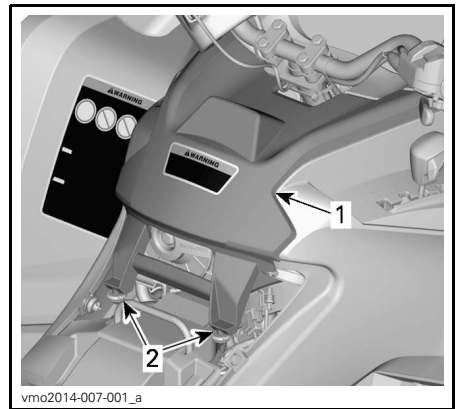
Air Filter Removal

NOTICE Never remove or modify any component in the air filter housing. Otherwise, engine performance degradation or damage can occur. The engine is calibrated to operate specifically with these components.

Remove seat.

Remove console.

Lift rear portion of console upwards until the studs are released from the grommets.



1. Console
2. Studs and grommets

Pull console rearwards.

Rotate air filter cover counterclockwise to remove.



1. Air filter cover

Remove air filter.



AIR FILTER REMOVAL

Air Filter Cleaning and Oiling

⚠ CAUTION Always wear appropriate skin and eye protection. Chemicals can cause a skin rash and eye injury.

Paper Filter Cleaning

1. Ensure that the foam filter element is removed from paper filter.
2. Tap out heavy dust from the paper element.

This will allow dirt and dust to get out of the paper filter.

NOTE: Paper filter have a limited life span; replace filter if too dirty or clogged.

NOTICE It is not recommended to blow compressed air on the paper filter; this could damage the paper fibers and reduce its filtration ability when used in dusty environments.

NOTICE Do not wash the paper filter with any cleaning solution.

Foam Filter Element Cleaning

1. Spray the foam filter element inside and out with AIR FILTER CLEANER (P/N 219 700 341).

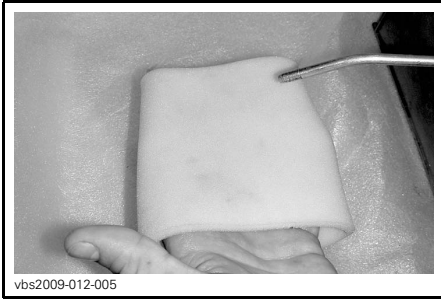


AIR FILTER CLEANER (P/N 219 700 341)



TYPICAL - SPRAY THE FOAM ELEMENT

2. Let stand for 3 minutes.
3. As stated on air filter cleaner (UNI) container, rinse with plain water.
4. Dry the foam element completely.



TYPICAL - DRY

NOTE: A second application may be necessary for heavily soiled elements.

Foam Filter Element Lubrication

1. Make sure filter is clean. Refer to *FOAM FILTER CLEANING*.
2. Spray AIR FILTER OIL (P/N 219 700 340) on the foam filter element previously dried.



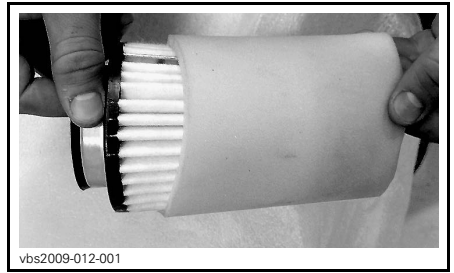
AIR FILTER OIL (P/N 219 700 340)



TYPICAL - OIL THE FOAM FILTER ELEMENT

3. Let stand for 3 to 5 minutes.

4. Remove any excess of oil that could transfer to the paper filter by wrapping the foam filter element into an absorbent cloth and squeezing gently. This will also ensure a full oil coverage on foam filter.
5. Reinstall the foam filter element over the paper filter.



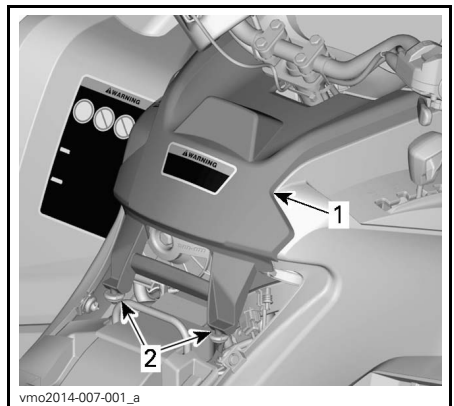
TYPICAL

Air Filter Installation

Install air filter as the reverse of removal. However, pay attention to the following.

Align console front tabs with slots, then push console forward.

Then align and insert studs with grommets on rear portion of console until studs engage with grommets.



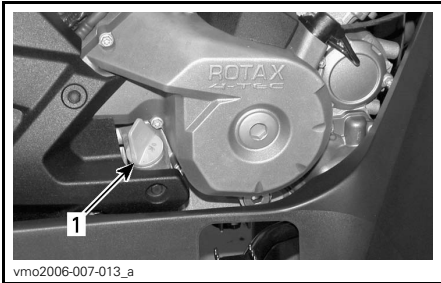
1. Console
2. Studs and grommets

Engine Oil

Engine Oil Level

NOTICE Check level frequently and refill if necessary. **Do not overfill.** Operating the engine/gearbox with an improper level may severely damage engine/gearbox. Wipe off any spillage.

NOTE: While checking the oil level, visually inspect engine area for leaks.

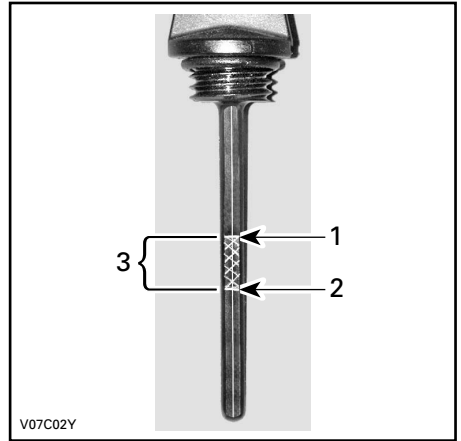


RH SIDE OF ENGINE

1. Dipstick

With vehicle on a level surface and engine cold, not running, check the oil level as follows:

1. Unscrew dipstick then remove it and wipe clean.
2. Reinstall dipstick, screw in it completely.
3. Remove and check oil level. It should be near or equal to the upper mark.



TYPICAL

1. Full
2. Add
3. Operating range

To add oil, remove dipstick. Place a funnel into the dipstick tube to avoid spillage.

Add a small amount of recommended oil and recheck oil level.

Repeat the above procedures until oil level reaches the dipstick's upper mark. **Do not overfill.**

Properly tighten dipstick.

Recommended Engine Oil

For the summer season, use XPS 4-STROKE SYNTH. BLEND OIL (SUMMER) (P/N 293 600 121).

For the all season, use XPS 4-STROKE SYNTHETIC OIL (ALL CLIMATE) (P/N 293 600 112).

NOTE: The XPS oil is specially formulated and tested for the severe requirements of this engine.

If not available, use 4-stroke SAE 5W40 engine oil that meets or exceeds the requirements for API service classification SM, SL or SJ. Always check the API service label certification on the oil container it must contain at least one of the above standards.

Engine Oil Change

Oil and filter are to be replaced at the same time.

Oil change should be done with a warm engine.

⚠ CAUTION The engine oil can be very hot. In order to avoid potential burns, do not remove the engine drain plug or the filter cover if the engine is hot. Wait until engine oil is warm.

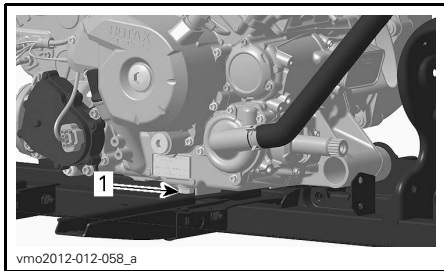
Ensure vehicle is on a level surface.

Remove dipstick.

Clean the oil drain plug area.

Place a drain pan under the oil drain plug area.

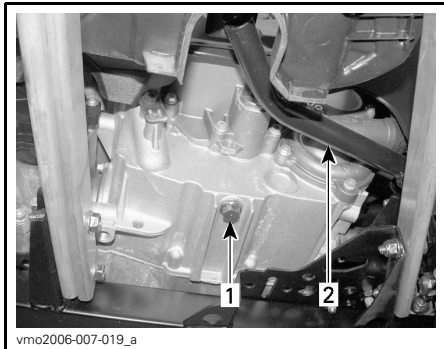
Unscrew oil drain plug.



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TYPICAL - 650 AND 800R MODELS

1. Oil drain plug



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TYPICAL - 1000 MODEL

1. Oil drain plug
2. Brake pedal

Allow enough time for oil to flow out of oil filter.

Replace the oil filter. Refer to *OIL FILTER* in this subsection.

Change gasket on oil drain plug.

Clean gasket area on engine and oil drain plug then reinstall plug.

Refill engine at the proper level with the recommended oil.

Refer to *SPECIFICATIONS* subsection for oil capacity.

Start engine and let idle for a few minutes.

Ensure oil filter area and oil drain plug areas are not leaking.

Stop engine.

Wait a while to allow oil to flow down to crankcase then check oil level.

Refill as necessary.

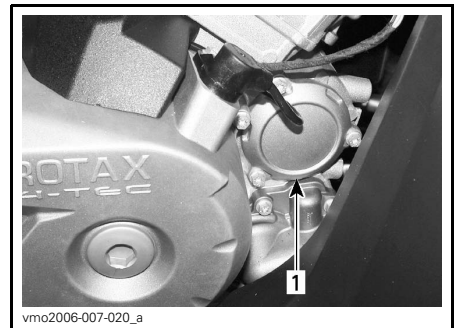
Dispose of oil as per your local environmental regulations.

Oil Filter

Oil Filter Replacement

Remove the right engine cover.

Unscrew the oil filter cover.



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1. Oil filter cover

Remove the oil filter and replace with a new filter.

Check the cover O-ring and change it if necessary.

Screw oil filter cover in place.
Wipe out any oil spillage on engine.

Radiator

Radiator Inspection and Cleaning

Periodically check the radiator area for cleanliness.



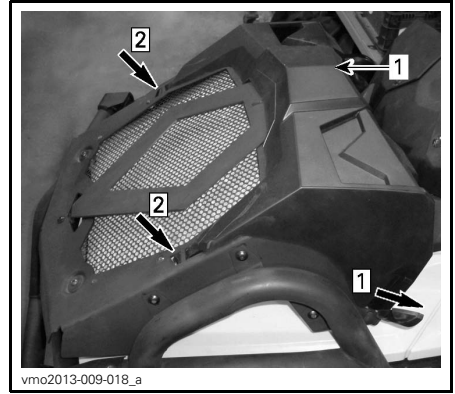
TYPICAL

1. Radiator

Inspect radiator and hoses for leaks or any damage.

To access the hoses and the engine coolant reservoir, remove the radiator cover.

Release the latch on each side of the cover, push on the two tabs and remove the cover.



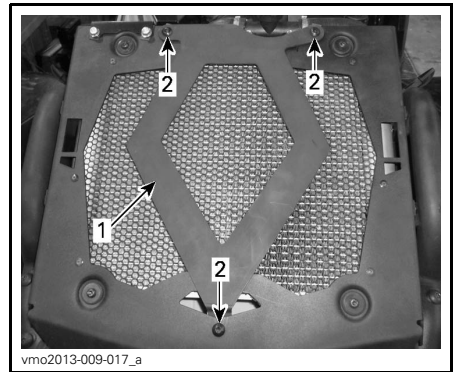
Step 1: Release the latches

Step 2: Push on the tabs

1. Radiator cover

Inspect radiating fins. They must be clean, free of mud, dirt, leaves and any other deposit that would prevent the radiator to cool properly.

To access the radiating fins, remove the three screws and pull off the diamond-shaped plate.



1. Diamond-shaped plate

2. Screws

Remove as much deposits as you can with your hands. If water is available in proximity, try rinsing the radiating fins.

If available, use a garden hose to rinse the radiating fins.

⚠ CAUTION Never clean radiator with your hands when it is hot. Let the radiator cool down before cleaning.

NOTICE Be careful not to damage the radiating fins when cleaning. Do not use any object/tool that could damage the fins. The fins are purposely thin parts to allow efficient cooling. **WHEN HOSING, USE LOW PRESSURE ONLY, NEVER USE A HIGH PRESSURE WASHER.**

See an authorized Can-Am dealer to check the performance of the cooling system.

Engine Coolant

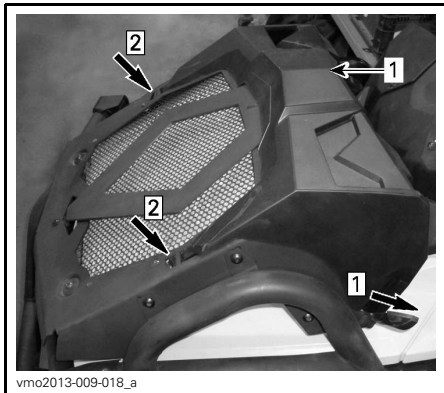
Engine Coolant Level

⚠ WARNING

Check coolant level with engine cold. Never add coolant in cooling system when engine is hot.

1. To access the engine coolant reservoir, remove the radiator cover.

Release the latch on each side of the cover, push on the two tabs and remove the cover.



Step 1: Release the latches

Step 2: Push on the tabs

1. Radiator cover

2. With vehicle on a level surface, liquid should be between MIN. and MAX. level marks of coolant reservoir.

NOTE: When checking level at temperature lower than 20°C (68°F), it may be slightly lower than MIN. mark.

NOTE: Ensure coolant reservoir hose is properly routed as per the above illustration to avoid any interference, when closing cover.

If coolant is added in the coolant reservoir, check also the level in the radiator.

⚠ WARNING

In order to avoid potential burning, do not remove the radiator cap if the engine is hot.

NOTE: A cooling system that frequently requires coolant is the indication of leaks or engine problems. See an authorized Can-Am dealer.

Adding Coolant

1. Remove the coolant reservoir cap.
- NOTE:** Take note of the vent routing.
2. Add coolant up to Max mark. Do not overfill.
- NOTE:** Use a funnel to avoid spillage.
3. Properly reinstall and tighten coolant reservoir cap.

NOTICE Do not store any objects in the front service compartment.

4. Reinstall the radiator cover.

Recommended Engine Coolant

Always use ethylene-glycol antifreeze containing corrosion inhibitors specifically for internal combustion aluminum engines.

Cooling system must be filled with LONG LIFE ANTIFREEZE (P/N 219 702 685) or with distilled water and antifreeze solution (50% distilled water, 50% antifreeze).

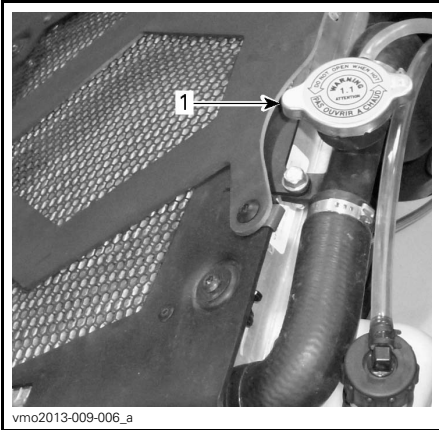
Engine Coolant Replacement

⚠ WARNING

In order to avoid potential burns, do not remove the radiator cap or loosen the coolant drain plug if the engine is hot.

NOTICE Do not store any objects in the front service compartment.

Remove the radiator cap by applying pressure and turning it counterclockwise.

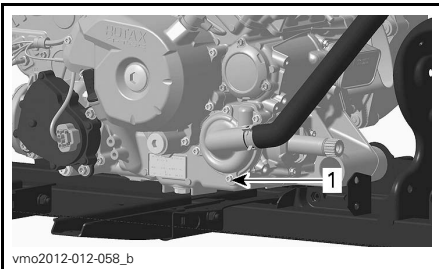


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TYPICAL

1. Radiator cap

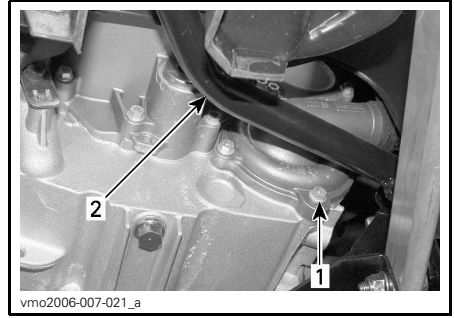
Unscrew the coolant drain plug on the water pump and drain the coolant into a suitable container.



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TYPICAL - 650 AND 800R MODELS

1. Coolant drain plug



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TYPICAL - 1000 MODEL

1. Coolant drain plug
2. Brake pedal

NOTE: Do not unscrew the coolant drain plug completely.

Remove the RH side panel.

Unscrew the bleeding screw on the top of thermostat housing.

NOTE: To gain access to the bleeding screw, remove the CVT filter outlet.



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1. Bleeding screw

Drain the system completely.

Reinstall the coolant drain plug.

Fill the radiator until the coolant comes out by the thermostat housing hole.

Install the bleeding screw.

Complete the radiator filling.

Check the level in the coolant reservoir and refill if necessary.

Run engine at idle with the radiator cap off. Slowly add coolant if necessary.

At this point, wait until engine reaches normal operating temperature.

Depress the throttle lever two or three times; then add coolant if required.

Install radiator cap as the reverse of removal.

Inspect all connections for leaks and check coolant level in the reservoir.

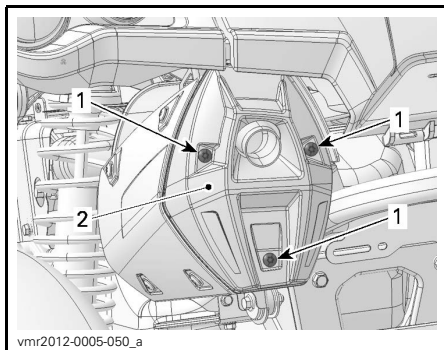
Muffler Spark Arrester

Muffler Spark Arrester Cleaning and Inspection

CAUTION Let exhaust system cool down before proceeding with cleaning and inspection.

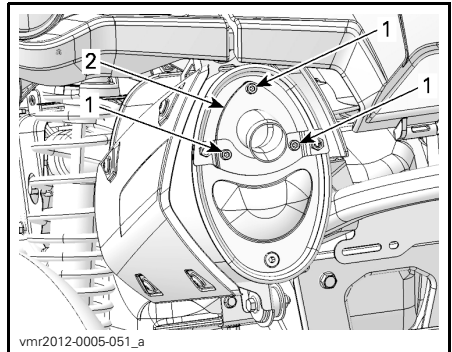
Remove the muffler cover. Discard retaining screws.

NOTICE Do not use impact tool for any screw removal.



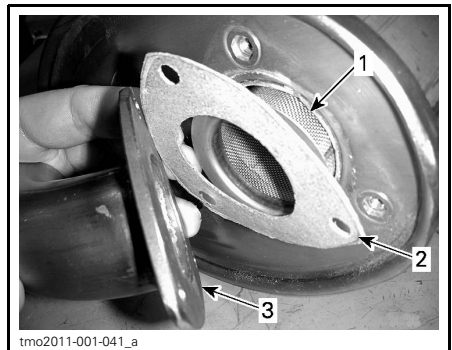
1. Muffler cover
2. Retaining screw

Remove and discard the tail pipe retaining screws.



TYPICAL - REMOVE TAIL PIPE

Remove exhaust tail pipe, gasket (discard) and spark arrester.

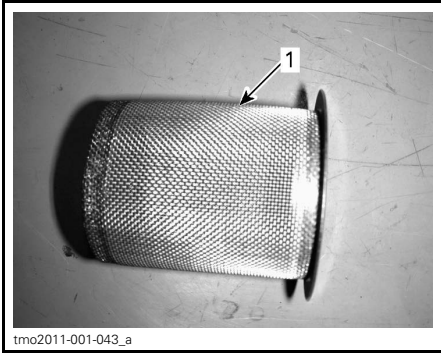


- TYPICAL
1. Spark arrester
 2. Gasket
 3. Exhaust tail pipe

Remove carbon deposits from the spark arrester using a brush.

NOTICE Use a soft brush and be careful to avoid damaging spark arrester mesh.

CAUTION Wear eye protection and gloves.



1. Clean spark arrester

Inspect mesh of spark arrester for any damage. Replace as required.

NOTE: Spark arrester screen replacement is required only when damaged

Inspect spark arrester chamber in muffler. Clean any debris as required.

Install new gasket, tail pipe and new retaining screws.

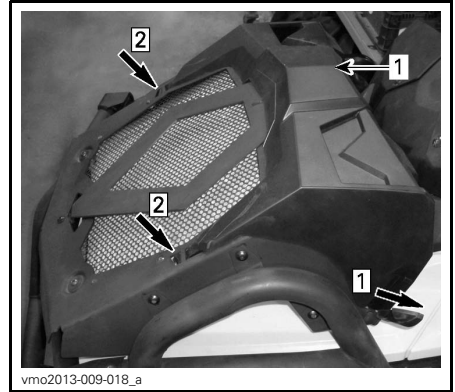
Reinstall muffler cover with new retaining screws. Tighten to specification.

TORQUE	
Tail pipe retaining screws and cover retaining screws	11 N•m ± 1 N•m (97 lbf•in ± 9 lbf•in)

CVT Air Filter

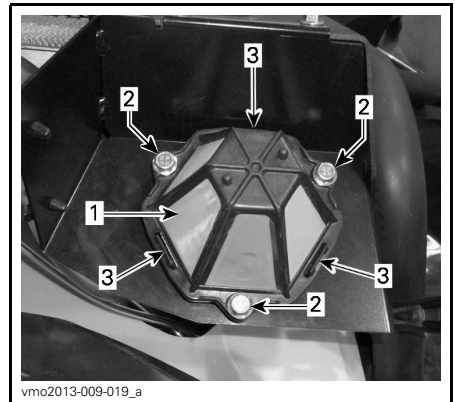
CVT Air Filter Removal

1. To access the CVT air filter, remove the radiator cover.
2. Release the latch on each side of the cover, push on the two tabs and remove the cover.



Step 1: Release the latches
Step 2: Push on the tabs

1. Radiator cover
3. Remove the CVT air filter by removing the three screws and pressing on the tabs.



1. CVT air filter
2. Screws
3. Tabs

CVT Air Filter Cleaning

1. Spray filter inside and out with AIR FILTER CLEANER (P/N 219 700 341).

While reading this Operator's Guide, remember that:

WARNING

Indicates a potential hazard that, if not avoided, could result in serious injury or death.



219700341

AIR FILTER CLEANER (P/N 219 700 341)

2. Let stand for 3 minutes.
3. As stated on air filter cleaner (UNI) container, rinse filter with plain water.
4. Dry filter completely.



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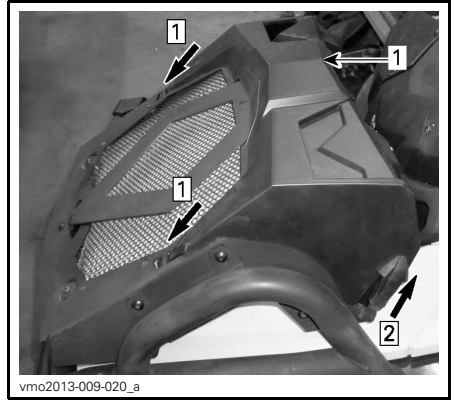
1. CVT air filter

CVT Air Filter Installation

1. Carefully push the CVT air filter until the three tabs click and tighten the three screws. Tighten to specification.

TORQUE	
CVT air filter screws	2.5 N•m ± 0.5 N•m (22 lbf•in ± 4 lbf•in)

2. Reinstall the radiator cover. Slide the tabs into the slots until they click and latch the sides.



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- Step 1: Slide the radiator cover tabs
Step 2: Latch the sides

1. Radiator cover

Gearbox Oil

Gearbox Oil Level

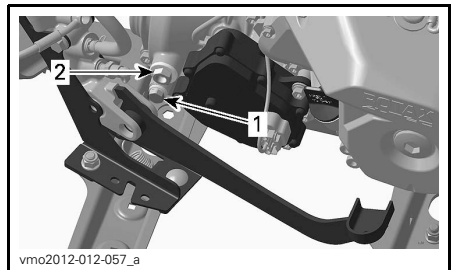
NOTICE Check level and refill if necessary. **Do not overfill.** Operating the gearbox with an improper level may severely damage gearbox. Wipe off any spillage.

Place the vehicle on a level surface.

Select NEUTRAL position.

Apply parking brake.

Check the gearbox oil level when engine cold, not running, by removing the gearbox oil level plug.



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1. Drain plug
2. Oil level plug

The oil should be level with the bottom of the oil level hole.

Refill as required until gearbox oil level flows through oil level hole.

Recommended Gearbox Oil

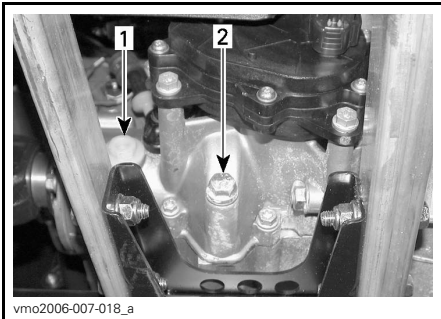
Use XPS SYNTHETIC GEAR OIL (75W 140) (P/N 293 600 140).

If the recommended oil is not available, use a 75W140 gearbox oil that meets the API GL-5 specification.

NOTICE Do not use another types of oil when servicing. Do not mix with other types of oil.

Gearbox Oil Change

Place the vehicle on a level surface.
Clean drain plug area and oil level plug.
Remove the gearbox drain plug.



1. Oil level plug
2. Oil drain plug

NOTE: To completely drain the gearbox, place a jack under the left footrest and tilt the vehicle toward the right side. When the gearbox is empty, install the drain plug and replace the vehicle on the ground.

Refill gearbox, using XPS SYNTHETIC GEAR OIL (75W 140) (P/N 293 600 140) or an equivalent.

NOTICE Do not use another types of oil when servicing. Do not mix with other types of oil.

The oil should be level with the bottom of the oil level hole.

Refill as required until gearbox oil level flows through oil level hole.

Reinstall oil level plug.

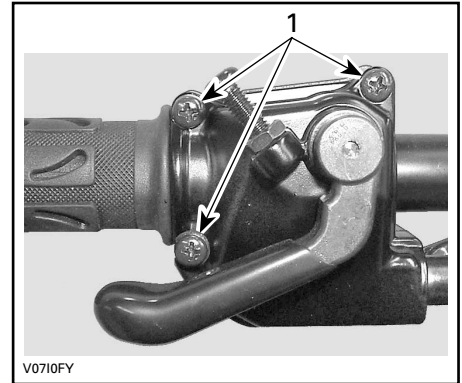
Throttle Cable

Throttle Cable Lubrication

The throttle cable must be lubricated with CABLE LUBRICANT (P/N 293 600 041) or an equivalent.

⚠ WARNING
Always use a silicone-based lubricant. Using another lubricant (like a water-based lubricant) could cause the throttle lever/cable to become sticky and stiff.

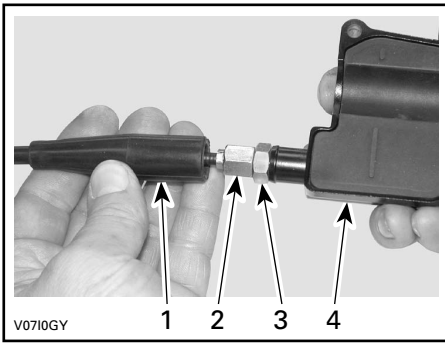
Open the throttle lever housing.



1. Remove these screws

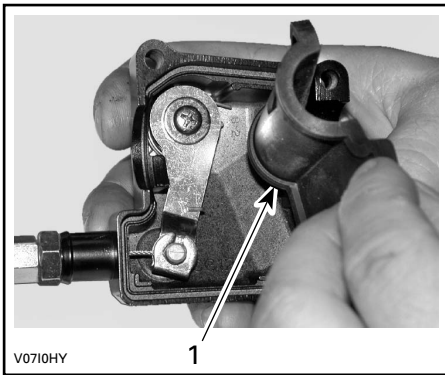
Separate the housing.

Slide rubber protector back to expose throttle cable adjuster.



1. Cable protector
2. Throttle cable adjuster
3. Lock nut
4. Throttle lever housing

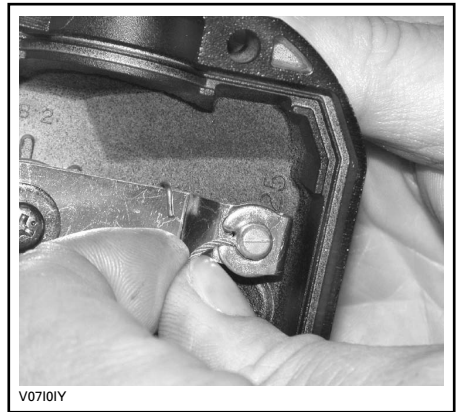
Screw in the throttle cable adjuster.
Remove inner housing protector.



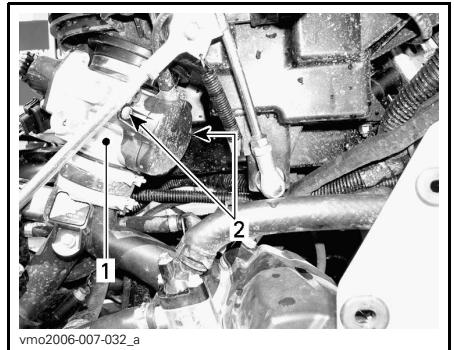
1. Inner housing protector

Remove the cable from the throttle lever housing.

NOTE: Slide cable in clip slot and remove the end of cable from clip.



Remove the throttle body side cover.



1. Throttle body
2. Side cover screws

Insert the needle of the lubricant can in the end of throttle cable adjuster.

⚠ CAUTION Always wear appropriate skin and eye protection. Chemicals can cause a skin rash and eye injury.



TYPICAL

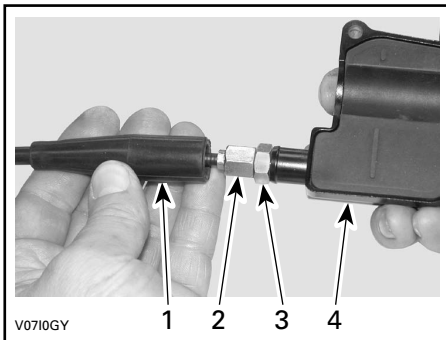
NOTE: Place a rag around the throttle cable adjuster to prevent the lubricant from splashing.

Add lubricant until it runs out at throttle body end of the throttle cable.

Reinstall and adjust the cable.

Throttle Cable Adjustment

Slide rubber protector back to expose throttle cable adjuster.

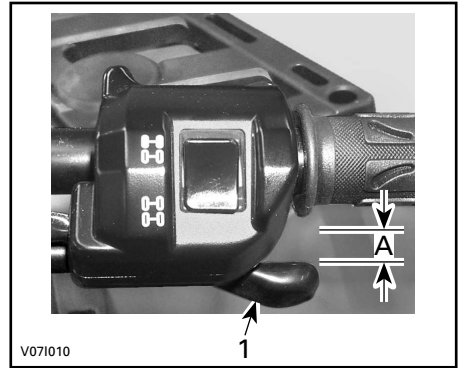


1. Cable protector
2. Throttle cable adjuster
3. Lock nut
4. Throttle lever housing

Loosen lock nut then turn the adjuster to obtain correct throttle lever free play.

NOTE: Measure throttle free play at the tip of throttle lever.

Tighten lock nut and reinstall protector.



1. Throttle lever

A. 2 mm (.079 in)

With the shift lever on PARK position, start the engine.

Check if the throttle cable is adjusted correctly by turning handlebar fully to the right then fully to the left. If the engine revolutions per minute (RPM) increases, readjust the throttle lever free play.

Spark Plugs

Spark Plug Access

Remove side panels.

Unplug spark plug cables.

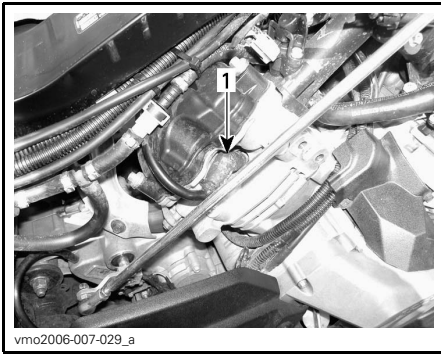
Spark Plug Removal

! CAUTION Always wear safety goggles when using pressurized air.

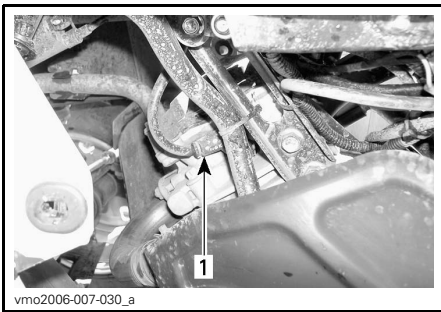
Unscrew spark plugs one turn.

Clean spark plugs and cylinder heads with pressurized air if possible.

Unscrew spark plugs completely then remove them.



vmo2006-007-029_a
RH SIDE — REAR CYLINDER
 1. Spark plug



vmo2006-007-030_a
LH SIDE — FRONT CYLINDER
 1. Spark plug

Spark Plug Installation

Prior to installation, make sure that contact surfaces of cylinder heads and spark plugs are free of grime.

Using a feeler gauge, set the spark plug gap between 0.6 mm to 0.7 mm (.024 in to .028 in).

Apply a small amount of copper-based anti-seize lubricant over spark plug threads.

Screw spark plugs into cylinder heads by hand and tighten with a torque wrench and a proper socket.

SPARK PLUG TIGHTENING TORQUE
20N•m ± 2.4N•m (15 lbf•ft ± 2 lbf•ft)

Battery

⚠ WARNING
 Unless otherwise indicated, always turn ignition switch to the OFF position before performing any maintenance or repair on electrical system.

⚠ CAUTION Never charge a battery while installed in vehicle.

These vehicles are equipped with a VRLA battery (Valve Regulated Lead Acid). It is a maintenance-free type battery, there is no need to add water to adjust electrolyte level.

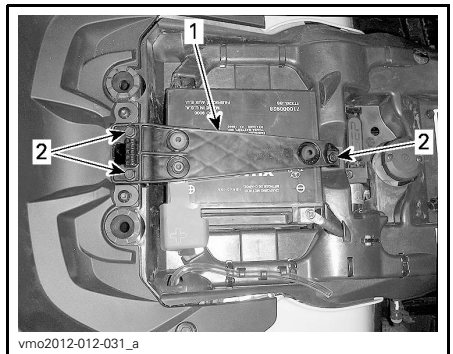
NOTICE Never remove the battery sealing cap.

Battery Removal

NOTICE Always disconnect **BLACK (-)** battery cable first.

Disconnect **BLACK (-)** cable first then **RED (+)** cable.

Remove the retaining screws and the battery holder, then pull the battery out of frame.



vmo2012-012-031_a
 1. Battery holder
 2. Retaining screws

Battery Cleaning

Clean battery, battery casing and battery posts using a solution of baking soda and water.

Remove corrosion from battery cable terminals and battery posts using a firm wire brush.

Battery Installation

Reinstall battery in vehicle.

NOTICE Always connect RED (+) battery cable first.

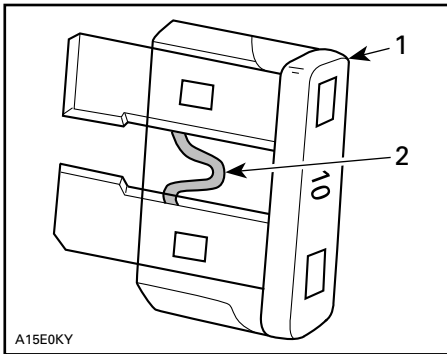
Fuses

CAUTION Always turn the ignition switch to OFF position before replacing a defective fuse.

Fuse Inspection

Check if filament is melted.

If filament is melted, replace damaged fuse, refer to *FUSE LOCATION* tables for proper rating.



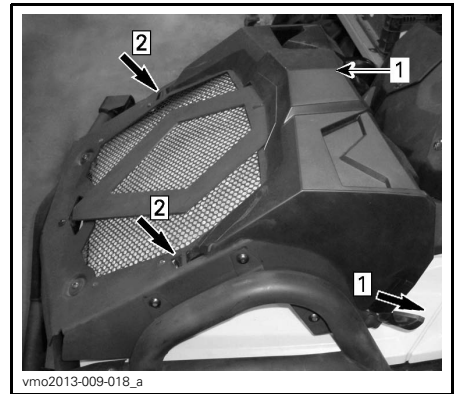
- TYPICAL**
1. Fuse
 2. Check if melted

NOTICE Do not use a higher rated fuse as this can cause severe damage.

Front Fuse Location

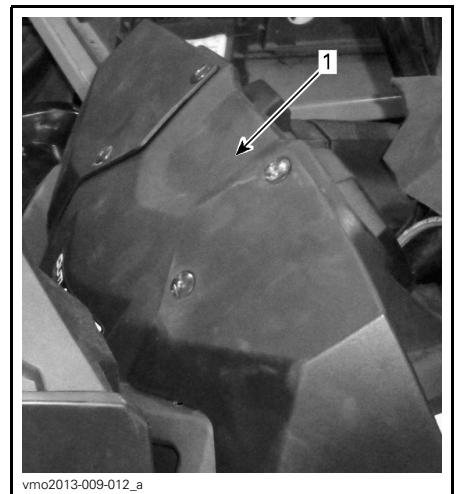
To gain access to the fuse box, located between the radiator and the front console, remove the radiator cover and then the gauge support as follows:

1. Release the latch on each side of the radiator cover, push on the two tabs and remove the cover.



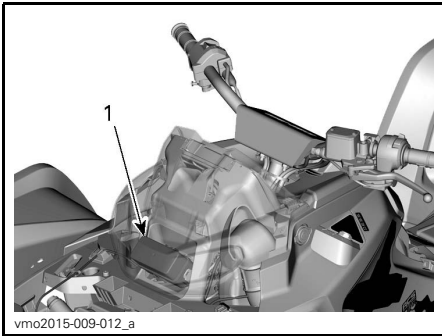
- Step 1: Release the latches
Step 2: Push on the tabs

1. Radiator cover
2. Carefully release and remove the gauge support from its location.



1. Gauge support

Remove the cover from the front fuse box.



TYPICAL

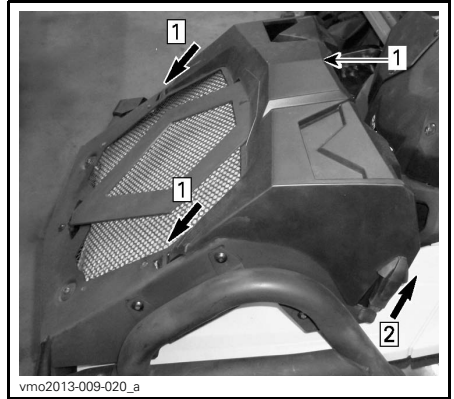
1. Front fuse box

FRONT FUSE BOX		
NO.	DESCRIPTION	RATING
R1	Fan relay	-
R2	Main relay	-
R3	Accessories relay	-
R4	Fuel pumps relay	-
R5	Lights relay	-
R8	Brake relay	-
F4	Speedometer/relay	10 A
F5	Injectors/ignition	5 A
F6	Engine control module (ECM)	5 A
F7	Winch (if equipped) 2WD/4WD	5 A
F8	Key switch/starter solenoid	5 A
F9	Resetable cooling fan	25 A
F10	Euro control/Clock	5 A
F11	Lights	30 A
F12	DC outlet	15 A
F14	ACC2	15 A
F15	Fuel pump	5 A

NOTE: Check inside fuse box cover to know fuses location.

NOTICE Do not store any objects in the front service compartment.

1. Reinstall front fuse box cover and the gauge support
2. Reinstall the radiator cover in the reverse. Slide the tabs into the slots until they click and latch the sides.

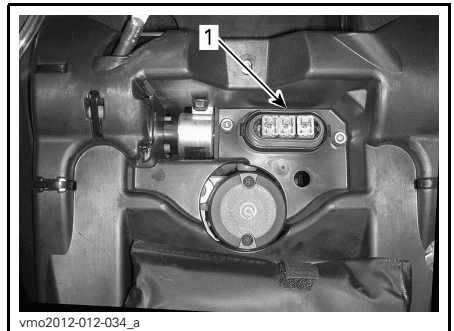


Step 1: Slide the radiator cover tabs
Step 2: Latch the sides

1. Radiator cover

Rear Fuse Location

The rear fuse holder is located at the rear of vehicle near battery.



1. Rear fuse holder

REAR FUSE HOLDER		
NO.	DESCRIPTION	RATING
F1	Main	30 A
F2	Fan/Accessories	40 A
F3	Dynamic power steering (DPS)	40 A

Lights

⚠ CAUTION Always turn the ignition switch to OFF position before replacing a defective bulb.

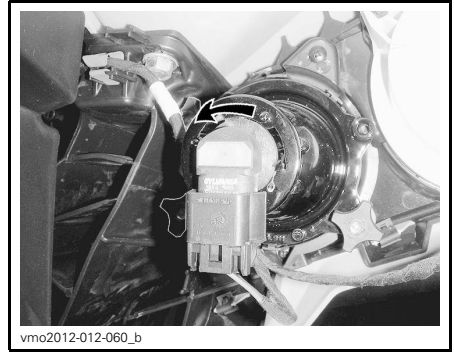
Always check light operation after replacement.

Headlight Bulb Replacement

NOTICE Never touch glass portion of a halogen bulb with bare fingers, it shortens its operating life. If glass is touched, clean it with isopropyl alcohol which will not leave a film on the bulb.

Unplug connector from bulb.

Rotate light bulb counterclockwise to release it from light housing.



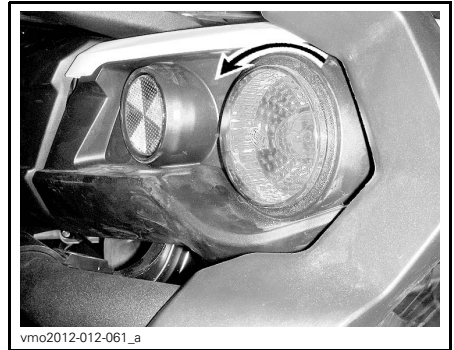
Pull out bulb.

Properly reinstall removed parts in the reverse order of their removal.

Validate headlights operation.

Taillight/Brake Light Bulb Replacement

Rotate taillight counterclockwise to remove it from taillight housing.



ROTATE TAILLIGHT CCW TO REMOVE

Pull tail light out of its location.

Unplug connector from bulb.

Rotate light bulb counterclockwise to remove it from taillight.



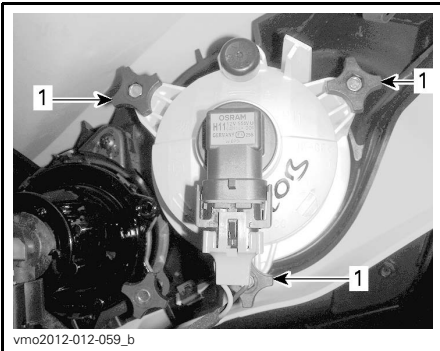
ROTATE BULB COUNTERCLOCKWISE

Remove bulb socket from taillight. Installation is the reverse of the removal procedure.

Headlight Beam Aiming

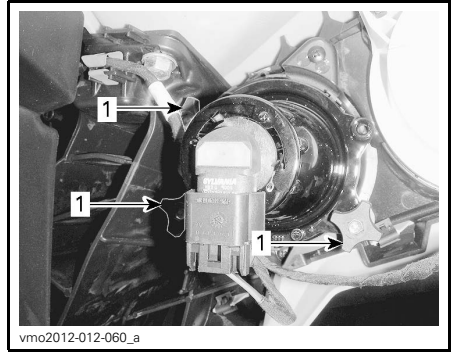
Turn adjustment knobs to adjust beam height to your convenience.

NOTE: Adjust headlights evenly.



LOW BEAM ADJUSTMENT

1. Adjustment knobs



HIGH BEAM ADJUSTMENT

1. Adjustment knobs

Drive Shaft Boot and Protector

Drive Shaft Boot and Protector Inspection

Visually inspect drive shaft protectors and boots conditions.

Check protectors for damage or rubbing against shafts.

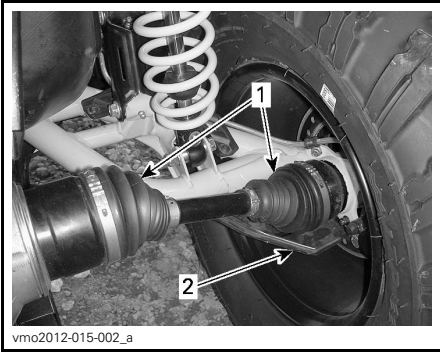
Check boots for cracks, tears, leaking grease etc.

Repair or replace damaged parts as necessary.



TYPICAL — FRONT OF VEHICLE

1. Drive shaft boots
2. Drive shaft protector



TYPICAL — REAR OF VEHICLE

1. Drive shaft boots
2. Drive shaft protector

Wheels and Tires

Tire Pressure

⚠ WARNING

Tire pressure greatly affects vehicle handling and stability. Insufficient pressure may cause tire to deflate and rotate on wheel. Over-pressure may burst the tire. Always follow recommended pressure. NEVER set tire pressure below minimum. It could cause the tire to dislodge from the rim. Since tires are low-pressure types, a manual pump should be used.

Check pressure when tires are cold before using the vehicle. Tire pressure changes with temperature and altitude. Recheck pressure if one of these conditions has changed.

For your convenience, a pressure gauge is supplied in tool kit.

TIRE PRESSURE	
FRONT/REAR	
MAX.	48.3 kPa (7 PSI)
MIN.	41.4 kPa (6 PSI)

Although the tires are specifically designed for off-road use, a flat may still occur. Therefore, it is recommended to carry a tire pump and a repair kit.

Tire Inspection

Check tire for damage and wear. Replace if necessary.

The tires are directional and their rotation must be kept in a specific direction for proper operation.

Tire Replacement

Tires replacement should be performed by an authorized Can-Am dealer.

⚠ WARNING

- When the tires are replaced, never install a bias tire with a radial tire. Such a combination could create handling and/or stability problems.
- Do not mix tires of different size and/or design on the same axle.
- Front and rear tire pairs must have an identical model and manufacturer.
- For unidirectional tread pattern, ensure that the tires are installed in the correct direction of rotation.
- The radial tires must be installed as a complete set.

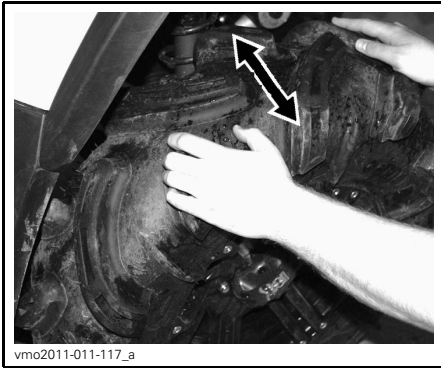
While reading this Operator's Guide, remember that:

⚠ WARNING

Indicates a potential hazard that, if not avoided, could result in serious injury or death.

Wheel Bearing Inspection

- Place vehicle on a level surface.
- Apply parking brake.
- Lift vehicle.
- Secure vehicle on jack stands.
- Push and pull the wheels from the upper edge to feel the play.
- See an authorized Can-Am dealer if there is any play.



TYPICAL

Wheel Removal and Installation

- Place vehicle on a level surface.
- Apply parking brake.
- Loosen lug nuts then lift vehicle.
- Secure vehicle on jack stands.
- Remove nuts then remove wheel.
- At installation, it is recommended to apply anti-seize lubricant on threads.
- Carefully tighten nuts in a criss-cross sequence then apply final torque.

WHEEL NUT TORQUE
100 N•m ± 10 N•m (74 lbf•ft ± 7 lbf•ft)

NOTE: Occasionally, wheel nuts should be removed to apply anti-seize lubricant on studs to ease future removal. This is particularly important when vehicle is used in salt-water environment or in mud. Remove one nut at a time, lubricate then retorque.

NOTICE Always use the recommended wheel nuts according to the type of wheel. Using a different nut could cause damage to the rim.

Suspension

Front Suspension Lubrication

Lubricate front A-arms at grease fittings.

SUSPENSION GREASE	
BRP recommended product	SUSPENSION GREASE (P/N 293 550 033)

Rear Suspension Lubrication

Lubricate rear sway bar links and pivot bushing at grease fittings.

SUSPENSION GREASE	
BRP recommended product	SUSPENSION GREASE (P/N 293 550 033)

Suspension Inspection

Shock Absorbers

- Inspect the shock absorber for oil leaks or other damage.
- Check tightness of fasteners.
- See an authorized Can-Am dealer as necessary.

Ball Joints

Inspect ball joint boots for cracks.

WARNING
The ball joint must be replaced if the boot is cracked.

Front A-Arms

- Check A-arms for cracks, bending or other damage.
- See an authorized Can-Am dealer as necessary.

Rear Trailing Arms

Check trailing arms for distortion, cracks or bending.

See an authorized Can-Am dealer if any problem is detected.

Steering

Steering Inspection

Tie Rods

Inspect tie rod boots for cracks.

⚠ WARNING

The tie rod must be replaced if the boot is cracked.

Brakes

⚠ WARNING

New brakes will not operate at their maximum efficiency until their break-in is completed. Braking performance may be reduced, so use extra caution.

Brake Fluid Reservoir Level

NOTICE Use only DOT 4 brake fluid from a sealed container. Do not use brake fluid taken from old or already opened containers.

With vehicle on a level surface, check brake fluid in reservoirs for proper level. They should be above MIN. mark.

Add fluid as required. **Do not overfill.**

Clean filler cap before removing.

NOTE: A low level may indicate leaks or worn brake pads. See an authorized Can-Am dealer.

Brake Lever Fluid Reservoir(s)

Turn steering in the straight-ahead position to ensure reservoir is level.

Check the brake fluid level, the reservoir is full when the fluid reaches of the top of window.

Visually inspect lever boot condition.

Check for cracks, tears, etc. Replace if damaged.



TYPICAL

Brake Pedal Fluid Reservoir

With vehicle on a level surface, liquid should be between MIN. and MAX. level marks of brake pedal fluid reservoir.

NOTICE Do not store any objects in the front service compartment.

Recommended Brake Fluid

Always use brake fluid meeting the specification DOT 4 only.

NOTICE To avoid serious damage to the braking system, do not use fluids other than the recommended one, nor mix different fluids for topping up.

Brake Inspection

⚠ CAUTION The brakes can be very hot after prolonged use of the vehicle. Wait for the brakes to cool down.

Check the following to keep the brakes in a good operating condition:

- Brake fluid level

- Brake system for fluid leaks
- Brake for spongy feel
- Brake cleanliness
- Brake discs for excessive wear and surface condition
- Brake pads for wear, damage or looseness.

SERVICE LIMITS	
Brake pads thickness	1.0 mm (.039 in)
Front discs thickness	4 mm (.157 in)
Rear disc thickness	4 mm (.157 in)
Maximum discs warpage	0.2 mm (.008 in)

See your authorized Can-Am dealer if a problem is detected concerning the brake system.

 **WARNING**

The brake fluid replacement or brake system maintenance and repairs should be performed by an authorized Can-Am dealer.

VEHICLE CARE

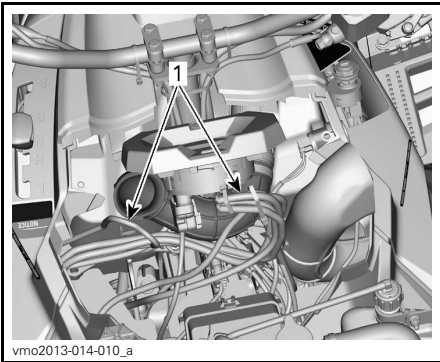
Post-Operation Care

To preserve the vehicle and its components, clean the vehicle with fresh water as per the *VEHICLE CLEANING AND PROTECTION* recommendations whenever the vehicle is used in the following conditions:

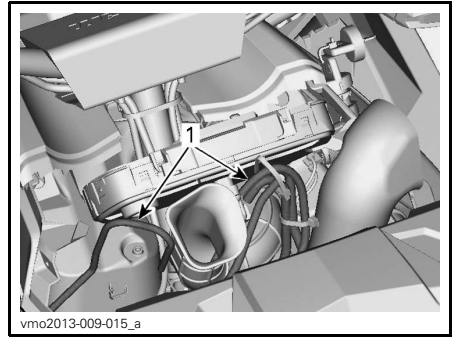
- Muddy conditions
- Salt-water environment.

NOTE: In salt-water environment, it is also recommended to protect metallic parts with XPS LUBE (P/N 293 600 016) or an equivalent.

NOTICE When reinstalling dashboard over air filter housing, ensure that all vent hoses are routed properly close to the air duct.



SUPPORT CONSOLE REMOVED FOR CLARITY - 650 AND 800R MODELS
1. Route vent hoses close to air duct



SUPPORT CONSOLE REMOVED FOR CLARITY - 1000 MODEL
1. Route vent hoses close to air duct

Vehicle Cleaning and Protection

Never use a high pressure washer to clean the vehicle. **USE LOW PRESSURE ONLY** (like a garden hose). High pressure can cause electrical or mechanical damage.

Painted parts which are damaged should be properly repainted to prevent rust.

When required, wash the body with warm water and soap (only use mild detergent). Apply non-abrasive wax.

NOTICE Never clean plastic parts with strong detergent, degreasing agent, paint thinner, acetone, etc.

STORAGE AND PRESEASON PREPARATION

WARNING

Have an authorized Can-Am dealer inspect fuel system integrity as specified in *MAINTENANCE SCHEDULE* subsection.

When a vehicle is not in use for a period of four (4) months, proper storage is a necessity.

See an authorized Can-Am dealer for proper procedures.

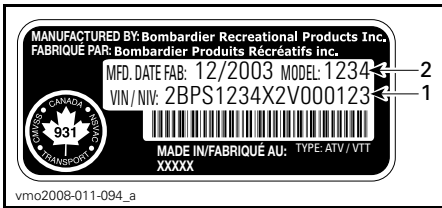
When using your vehicle after storage, a post storage preparation is required. See an authorized Can-Am dealer for proper procedures.

TECHNICAL INFORMATION

VEHICLE IDENTIFICATION

The main components of your vehicle (engine and frame) are identified using different serial numbers. It may sometimes become necessary to locate these numbers for warranty purposes or to trace your vehicle in the event of loss. These numbers are also required by the authorized Can-Am dealer to complete warranty claims properly. No warranty will be allowed by BRP Inc. if the engine identification number (EIN) or vehicle identification number (VIN) is removed, mutilated or altered in any way. We strongly recommend that you take note of all the serial numbers on your vehicle and supply them to your insurance company.

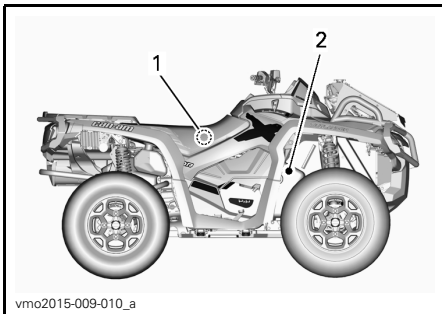
Vehicle Identification Number



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TYPICAL — VEHICLE SERIAL NUMBER LABEL

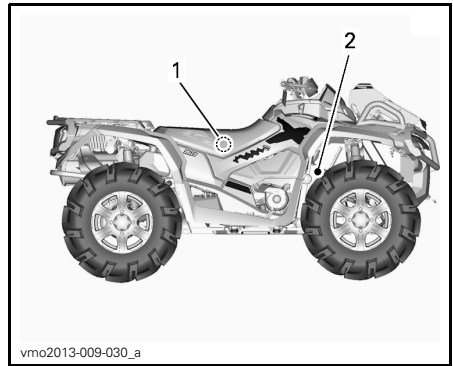
1. VIN (Vehicle Identification Number) (label on the frame under the seat in the middle)
2. VIN (Vehicle Identification Number) (stamped on the frame behind the RH front wheel)



vmo2015-009-010_a

SIDEVIEW OF XMR - 650 AND 800R MODELS

1. V.I.N. label on frame under seat in middle
2. V.I.N. stamped onto frame behind RH front wheel

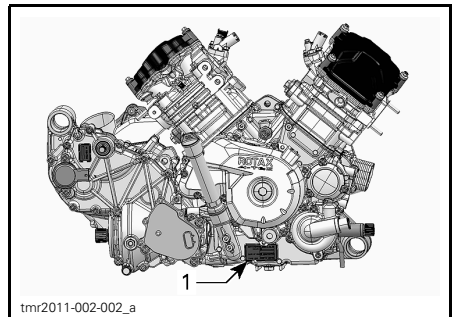


vmo2013-009-030_a

SIDEVIEW OF XMR - 1000 MODEL

1. VIN label on frame under seat in middle
2. VIN stamped onto frame behind RH front wheel

Engine Identification Number



tmr2011-002-002_a

TYPICAL — RH SIDE OF ENGINE

1. EIN (Engine Identification Number)

NOISE EMISSION CONTROL SYSTEM REGULATION

Tampering with Noise Control System is Prohibited!

U.S. Federal law and Canadian provincial laws may prohibit the following acts or the causing there of:

1. The removal or rendering inoperative by any person other than for purposes of maintenance, repair or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or
2. The use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

Among those Acts Presumed to Constitute Tampering Are the Acts Listed Below:

1. Removal or alteration or the puncturing of the muffler or any engine component which conducts removal of engine exhaust gases.
2. Removal or alteration or the puncturing of any part of the intake system.
3. Replacing any moving parts of the vehicle or parts of the exhaust or intake system, with parts other than those specified by the manufacturer.
4. Lack of proper maintenance.

SPECIFICATIONS

MODEL		OUTLANDER 650 X mr	OUTLANDER 800R X mr	OUTLANDER 1000 X mr
ENGINE				
Engine type		ROTAX® 660	ROTAX® 810	ROTAX® 1010
		4-stroke, liquid cooled, SOHC		
Number of cylinders		2		
Number of valves		4 valves/cylinder (mechanical adjustment)		
Bore		82 mm (3.23 in)	91 mm (3.58 in)	
Stroke		61.5 mm (2.42 in)		75 mm (2.95 in)
Displacement		649.6 cm ³ (39.64 in ³)	800 cm ³ (48.82 in ³)	976 cm ³ (59.56 in ³)
Lubrication	Type	Wet sump with replaceable filter		
	Oil filter	BRP Rotax® cartridge, replaceable		
	Engine oil	Capacity (oil change with filter)	2 L (.53 U.S. gal.)	
		Recommended	For the summer season, use XPS 4-STROKE SYNTH. BLEND OIL (SUMMER) (P/N 293 600 121). For the winter season, use XPS 4-STROKE SYNTHETIC OIL (ALL CLIMATE) (P/N 293 600 112).	
Exhaust system		Spark arrestor approved by USDA Forest Service		
Air filter		Synthetic paper filter with foam		
COOLING SYSTEM				
Radiator		Aluminium single row		
Coolant	Type	Ethyl glycol/water mix (50% coolant, 50% water). Use LONG LIFE ANTIFREEZE (P/N 219 702 685) or coolant specifically designed for aluminum engines		
	Capacity	3.5 L (.9 U.S. gal.)		
ELECTRICAL SYSTEM				
Magneto generator output		625 W @ 6000 RPM		
Ignition system type		DC IDI (Inductive Discharge Ignition)		
Ignition timing		Variable		
Spark plug	Quantity	2		
	Make and type	NGK DCPR8E		
	Gap	0.6 mm to 0.7 mm (.024 in to .028 in)		

MODEL		OUTLANDER 650 X mr	OUTLANDER 800R X mr	OUTLANDER 1000 X mr
ELECTRICAL SYSTEM (cont'd)				
Engine revolutions per minute (RPM) limiter setting	Forward	8000 RPM		
Battery	Type	Yuasa Maintenance Free		
	Voltage	12 volts		
	Nominal rating	18 A•h		
	Power starter output	0.7 KW		
Headlight		2 x 60 W, 2 x 55 W		
Taillight		2 x 5/21 W		
Indicator lamps		LEDS, 0.7 V approximately (each)		
Fuses	Front fuse box	Injectors/Ignition	5 A	
		Fan	25 A	
		2WD/4WD and winch (if equipped)	5 A	
		Speedometer / relay	10 A	
		Fuel pump	5 A	
		Engine control module (ECM)	5 A	
		Accessories	15 A	
		Key switch / starter	5 A	
		Euro control / clock	5 A	
		Lights	30 A	
		DC outlet	15 A	
	ACC 2	15 A		
	Rear fuse holder	Main	30 A	
		Fan/Accessories	40 A	
		Dynamic power steering (DPS)	40 A	
FUEL SYSTEM				
Fuel delivery	Type	Electronic Fuel Injection (EFI), 46 mm throttle body, 1 injector per cylinder		
Fuel pump	Model	Electrical (in fuel tank)		
Idle speed		1250 ± 50 RPM		
Fuel	Type	Regular unleaded gasoline		

SPECIFICATIONS

MODEL		OUTLANDER 650 X mr	OUTLANDER 800R X mr	OUTLANDER 1000 X mr
FUEL SYSTEM (cont'd)				
Fuel	Minimum octane	87 Pump Posted AKI (92 RON) - Refer to <i>FUEL REQUIREMENTS</i>		
Fuel tank capacity		20.5 L (5.4 U.S. gal.)		
Remaining fuel in fuel tank when display light turns ON		± 2 L (.5 U.S. gal.)		
CVT TRANSMISSION				
Type		CVT (Continuously Variable Transmission)		
Engagement RPM		1800 ± 100 RPM	1650 ± 100 RPM	
GEARBOX				
Type		Dual range (HI-LO) with park, neutral and reverse		
Gearbox oil	Capacity	400 ml (14 U.S. oz)	450 ml (15 U.S. oz)	
	Recommended	XPS SYNTHETIC GEAR OIL (75W 140) (P/N 293 600 140)		
DRIVE SYSTEM				
Front differential oil/rear final drive oil	Capacity	Front	500 ml (17 U.S. oz)	
		Rear	250 ml (8.5 U.S. oz)	
	Recommended	Front	XPS synthetic gear oil (P/N 293 600 043) or a 75W 90 API GL-5 synthetic gear oil	
		Rear	XPS Synthetic gear oil (P/N 293 600 140) or a 75W 140 API GL-5 synthetic gear oil	
Front drive		Bevel straight gears with Visco-Lok QE		
Front drive ratio		3.6:1		
Rear drive		Straight bevel gears	Spiral bevel gears	
Rear drive ratio		3.6:1		
CV joint grease		CV joint grease (P/N 293 550 062)		
Propeller shaft grease		Propeller shaft grease (P/N 293 550 063)		
STEERING				
Turning radius		3 200 mm (126 in)	2 680 mm (105.5 in)	4 318 mm (170 in)
Total toe (vehicle on ground)		.1° to .5° toe-out		
Camber angle		0°		

MODEL		OUTLANDER 650 X mr	OUTLANDER 800R X mr	OUTLANDER 1000 X mr
SUSPENSION				
<i>FRONT</i>				
Suspension type		Double suspension a-arm with dive-control geometry		
Suspension travel		226 mm (9 in)	147 mm (5.8 in)	
Shock absorber	Qty	2		
	Type	Oil	HPG shock with piggyback reservoir and dual speed compression damping adjustments	
<i>REAR</i>				
Suspension type		Torsional Trailing arm Independent (TTI) with external sway bar		
Suspension travel		236 mm (9.3 in)	185 mm (7.3 in)	
Shock absorber	Qty	2		
	Type	Oil	HPG shock with piggyback reservoir and dual speed compression damping adjustments	
BRAKES				
Front brake	Type	Dual 214 mm cross drilled disc brakes with hydraulic twin-piston calipers		
Rear brake	Type	Single 214 mm cross drilled disc brakes with hydraulic twin-piston caliper		
Brake fluid	Capacity	260 ml (8.8 U.S. oz)		
	Type	DOT 4		
Parking brake		Transmission (Park position)		
Caliper		Floating twin-pistons (26 mm x 2)		
Brake pad material	Front	Organic		
	Rear	Organic		
Minimum brake pad thickness		1 mm (.039 in)		
Minimum brake disc thickness		4.0 mm (.157 in)		
Maximum brake disc warpage		0.2 mm (.008 in)		
TIRES AND WHEELS				
<i>TIRES</i>				
Pressure	Front	Recommended: 48.3 kPa (7 PSI) Minimum: 41.4 kPa (6 PSI)		
	Rear	Recommended: 48.3 kPa (7 PSI) Minimum: 41.4 kPa (6 PSI)		
Minimum tire tread depth		3 mm (.118 in)		

SPECIFICATIONS

MODEL		OUTLANDER 650 X mr	OUTLANDER 800R X mr	OUTLANDER 1000 X mr
TIRES AND WHEELS (cont'd)				
Size	Front	AT 711 mm (28 in) X 203 mm (8 in) X 305 mm (12 in)	762 mm (30 in) x 229 mm (9 in) x 355 mm (14 in)	
	Rear	AT 711 mm (28 in) X 254 mm (10 in) X 305 mm (12 in)		
WHEELS				
Size	Front	305 mm (12 in) X 152 mm (6 in)	355 mm (14 in) X 152 mm (6 in)	
	Rear	305 mm (12 in) X 191 mm (7.5 in)		
Wheel nuts torque		100 N•m ± 10 N•m (74 lbf•ft ± 7 lbf•ft)		
Power Steering		Tri-mode dynamic power steering (DPS)		
DIMENSIONS				
Overall length		223.5 cm (88 in)	246.4 cm (97 in)	
Overall width		118 cm (46.5 in)	127 cm (50 in)	
Overall height		128.3 cm (50.5 in)	130.8 cm (51.5 in)	
Wheelbase		129.5 cm (51 in)	1 500 mm (59 in)	
Wheel track	Front	945 mm (37 in)	1 035 mm (41 in)	
	Rear	925 mm (36 in)	1 000 mm (39 in)	
Ground clearance		298 mm (11.75 in)	335 mm (13 in)	
LOADING CAPACITY AND WEIGHT				
Weight distribution	Front/rear	52/48		
Rear storage box		21.4 L (5.65 U.S. gal.)		
Rear rack capacity		90 kg (200 lb)		
Total vehicle load allowed (including driver, all other loads and added accessories)		190 kg (419 lb)		
Maximum towing weight		590 kg (1,300 lb)		
Maximum tongue weight		23 kg (50 lb)		

TROUBLESHOOTING

TROUBLESHOOTING GUIDELINES

ENGINE DOES NOT TURN

1. Ignition switch is in the OFF position.
 - Place switch to the ON position.
2. Emergency engine stop switch.
 - Make sure that emergency engine stop switch is in ON position.
3. Transmission is not set on PARK or NEUTRAL.
 - Set transmission either in PARK or in NEUTRAL or press the brake lever(s).
4. Burnt fuse.
 - Check main fuse condition.
5. Weak battery or loose connections.
 - Check connections and terminals condition.
 - Have the battery checked.
 - Contact an authorized Can-Am dealer.
6. Wrong ignition key, multifunction gauge display shows INVALID KEY.
 - Use the proper key for this vehicle.

ENGINE TURNS OVER BUT FAILS TO START

1. Flooded engine (spark plug wet when removed).
 - If the engine does not start and it fuel-flooded, the drowned mode can be activated to prevent fuel injection and to cut ignition while cranking. Proceed as follows:
 - Insert key in ignition switch and turn to ON position.
 - Press completely and HOLD throttle lever.
 - Press the engine START button.The engine should be cranked for 20 seconds. Release engine START button.
Release throttle lever and start/crank engine again to allow starting.
 - If it does not work:**
 - Clean the spark plug caps area then remove them.
 - Remove the spark plugs (tools are supplied in tool kit).
 - Crank engine several times.
 - Install new spark plugs if possible or clean and dry spark plugs.
 - Start engine as explained above.If engine continues to flood, see an authorized Can-Am dealer.
 - NOTE:** Make sure to verify that there is no fuel in engine oil, if so, replace engine oil.
2. No fuel to the engine (spark plug dry when removed).
 - Check fuel tank level.
 - A failure of the fuel pump may have occurred.
 - Contact an authorized Can-Am dealer.

ENGINE TURNS OVER BUT FAILS TO START (cont'd)

3. Spark plug/ignition (no spark).

- *Check injectors/ignition fuse condition.*
- *Remove spark plug then reconnect to ignition coil.*
- *Check that ignition switch and/or emergency engine stop switch is/are at the ON position.*
- *Start engine with spark plug grounded to the engine away from spark plug hole. If no spark appears, replace spark plug.*
- *If trouble persists, contact an authorized Can-Am dealer.*

4. Multifunction gauge CHECK ENGINE indicator lamp is on and display shows CHECK ENGINE.

- *Contact an authorized Can-Am dealer.*

5. Engine is under a protection mode.

- *Multifunction gauge CHECK ENGINE indicator lamp is on and display shows CHECK ENGINE, contact an authorized Can-Am dealer.*

ENGINE LACKS ACCELERATION OR POWER

1. Fouled or damaged spark plug.

- *Check item ENGINE TURNS OVER BUT FAILS TO START.*

2. Lack of fuel to engine.

- *Check item ENGINE TURNS OVER BUT FAILS TO START.*

3. Engine is overheating.

- *Check ENGINE OVERHEATS.*

4. Air filter/housing plugged or dirty.

- *Check air filter and clean if necessary.*
- *Check deposits in air filter housing drain.*
- *Check the position of the air intake tube.*

5. CVT dirty or worn-out.

- *Contact an authorized Can-Am dealer.*

6. Engine is under a protection mode.

- *Check multifunction gauge display for messages.*
- *Multifunction gauge CHECK ENGINE indicator lamp is on and display shows CHECK ENGINE or LIMP HOME, contact an authorized Can-Am dealer.*

ENGINE OVERHEATS

1. Low coolant in cooling system.

- *Check engine coolant, refer to MAINTENANCE PROCEDURES subsection.*

2. Dirty radiator fins.

- *Clean radiator fins, refer to RADIATOR in MAINTENANCE PROCEDURES subsection.*

3. Cooling fan inoperative.

- *Check cooling fan fuse, refer to MAINTENANCE PROCEDURES subsection. If the fuse is good, contact an authorized Can-Am dealer.*

ENGINE BACKFIRE

- 1. Exhaust system leakage.**
 - *Contact an authorized Can-Am dealer.*
- 2. Engine is running too hot.**
 - *See ENGINE LACKS ACCELERATION OR POWER.*
- 3. Ignition timing is incorrect or there is an ignition system failure.**
 - *Contact an authorized Can-Am dealer.*

ENGINE MISFIRE

- 1. Fouled/damaged/worn spark plug.**
 - *Clean/verify spark plug and heat range. Replace as required.*
- 2. Water in fuel.**
 - *Drain fuel system and refill with fresh fuel.*

VEHICLE CANNOT REACH FULL SPEED

- 1. Engine.**
 - *See ENGINE LACKS ACCELERATION OR POWER.*
- 2. Parking brake.**
 - *Ensure parking brake is completely removed.*
- 3. Air filter/housing plugged or dirty.**
 - *Check air filter and clean if necessary.*
 - *Check deposits in air filter housing drain.*
 - *Check the position of the air intake tube.*
- 4. CVT dirty or worn-out.**
 - *Contact an authorized Can-Am dealer.*
- 5. Engine is under a protection mode.**
 - *Check multifunction gauge display for messages.*
 - *Multifunction gauge CHECK ENGINE indicator lamp is on and display shows CHECK ENGINE or LIMP HOME, contact an authorized Can-Am dealer.*

SHIFT LEVER IS HARD TO MOVE

- 1. Transmission gears are in a position that prevents the shift lever to work.**
 - *Rock the vehicle back and forth to move the gears in the transmission and allow the shift lever to be set.*
- 2. CVT dirty or worn-out.**
 - *Contact an authorized Can-Am dealer.*

THE RPM INCREASES BUT THE VEHICLE DOES NOT MOVE

- 1. The transmission is on PARK or NEUTRAL position.**
 - *Select the R, HI or LO position.*
- 2. CVT dirty or worn-out.**
 - *Contact an authorized Can-Am dealer.*

THE RPM INCREASES BUT THE VEHICLE DOES NOT MOVE (cont'd)

3. Water in the CVT.

- See *SPECIAL PROCEDURES*.

ANALOG/DIGITAL GAUGE MESSAGES

MESSAGE	PILOT LAMP(S) ON	DESCRIPTION
INVALID KEY	CHECK ENGINE	INDICATES THAT YOU HAVE USED THE WRONG IGNITION KEY, USE THE PROPER KEY FOR THIS VEHICLE. IT IS ALSO POSSIBLE THAT THE IGNITION KEY HAS A BAD CONTACT, REMOVE AND CLEAN KEY.
PARK BRAKE	Parking brake	Is displayed when parking brake is applied for more than 15 seconds (while riding).
LO BATT	Check engine	Low battery voltage, check battery voltage and charging system.
HI BATT	Check engine	High battery voltage, check battery voltage and charging system.
LOW OIL ⁽¹⁾	Check engine	Engine low oil pressure, stop engine immediately.
HI TEMP	Check engine	Engine is overheating, refer to <i>ENGINE OVERHEATS</i> in <i>TROUBLESHOOTING</i> section.
LIMP HOME	Check engine	Serious fault on the engine that can change the normal operation of the engine, CHECK ENGINE indicator lamp will also blink, refer to <i>TROUBLESHOOTING</i> section.
CHECK ENGINE	Check engine	Engine fault, CHECK ENGINE indicator lamp will also be ON, refer to <i>TROUBLESHOOTING</i> section.
MAINTENANCE SOON	Check engine	Periodic maintenance required. See an authorized Can-Am dealer.
NO ECM COMMUNICATION	Check engine	Communication error between speedometer and engine control module (ECM), contact an authorized Can-Am dealer.
DPS FAULT	Check engine	Indicates that the DPS (Dynamic Power Steering) does not work properly. See an authorized Can-Am dealer.
TPS FAULT PRESS OVERRIDE BUTTON TO LIMP HOME	Check engine	Throttle position sensor does not work properly. See an authorized Can-Am dealer.

NOTICE ⁽¹⁾ If the message and the check engine light stays on after engine starting, stop engine. Check engine oil level. Refill if necessary. If the oil level is good, see an authorized Can-Am dealer. Do not use the vehicle until repaired.

WARRANTY

BRP LIMITED WARRANTY USA AND CANADA: 2015 CAN-AM™ ATV

1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")* warrants its 2015 Can-Am ATV sold by authorized Can-Am ATV dealers (as hereinafter defined) in the United States of America ("USA") and in Canada from defects in material or workmanship for the period and under the conditions described below. This limited warranty will become null and void if: (1) the ATV was used for racing or any other competitive activity, at any point, even by a previous owner; or (2) the ATV has been altered or modified in such a way so as to adversely affect its operation, performance or durability, or has been altered or modified to change its intended use.

Except if otherwise specified, all genuine Can-Am ATV parts and accessories installed by an authorized BRP dealer on a 2015 Can-Am ATV at the time of delivery are covered under this limited warranty. Without limiting the generality of the foregoing, the Apache™ and Apache 360™ are not covered under this limited warranty.

2) LIMITATIONS OF LIABILITY

THIS WARRANTY IS EXPRESSLY GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY SOME STATES/PROVINCES DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND EXCLUSIONS IDENTIFIED ABOVE, AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH MAY VARY FROM STATE TO STATE, OR PROVINCE TO PROVINCE.

Neither the distributor, any BRP dealer nor any other person has been authorized to make any affirmation, representation or warranty regarding the product, other than those contained in this limited warranty, and if made, shall not be enforceable against BRP. BRP reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the products sold while this warranty is in effect.

3) EXCLUSIONS – ARE NOT WARRANTED

The following are not warranted under any circumstances:

- Normal wear and tear;
- Routine maintenance items, tune ups, adjustments;
- Damage caused by failure to provide proper maintenance and/or storage, as described in the Operator's Guide;
- Damage resulting from removal of parts, improper repairs, service, maintenance, modifications or use of parts not manufactured or approved by BRP or resulting from repairs done by a person that is not an authorized servicing Can-Am ATV dealer;

- Damage caused by abuse, abnormal use, neglect or operation of the product in a manner inconsistent with the recommended operation described in the Can-Am ATV Operator’s Guide;
- Damage resulting from accident, submersion, fire, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the Operator’s Guide);
- Damages from rust, corrosion or exposure to the elements;
- Damage resulting from water or snow ingestion;
- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income.

4) WARRANTY COVERAGE PERIOD

This warranty will be in effect from (1) the date of delivery to the first retail consumer or (2) the date the product is first put into use, whichever occurs first and for the applicable period below:

SIX (6) CONSECUTIVE MONTHS, for private use or commercial use owners, except that emission-related components installed on EPA certified ATVs registered in the USA are covered for 5000 km or thirty (30) consecutive months whichever comes first; and evaporative emission related components are warranted for twenty-four (24) consecutive months. To obtain a list of the current warranted emission-related components, please see an authorized Can-Am ATV dealer.

The repair or replacement of parts or the performance of service under this warranty does not extend the life of this warranty beyond its original expiration date.

5) CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available **only** if **each** of the following conditions has been fulfilled:

- The 2015 Can-Am ATV must be purchased as new and unused by its first owner from a Can-Am ATV dealer authorized to distribute Can-Am ATVs in the country in which the sale occurred (“**Can-Am ATV dealer**”);
- The BRP specified pre-delivery inspection process must be completed and documented and signed by the purchaser;
- The 2015 Can-Am ATV must have undergone proper registration by an authorized Can-Am ATV dealer;
- The 2015 Can-Am ATV must be purchased in the country in which the purchaser resides;
- Routine maintenance outlined in the Operator’s Guide must be timely performed in order to maintain warranty coverage. BRP reserves the right to make warranty coverage contingent upon proof of proper maintenance.

BRP will not honor this limited warranty to any private use owner or commercial use owner if one of the preceding conditions has not been met. Such limitations are necessary in order to allow BRP to preserve both the safety of its products, and also that of its consumers and the general public.

6) WHAT TO DO TO OBTAIN WARRANTY COVERAGE

The customer must cease using the Can-Am ATV upon the appearance of an anomaly. The customer must notify a servicing BRP dealer within three (3) days of the appearance of a defect, and provide it with reasonable access to the product and reasonable opportunity to repair it. The customer must also present to the authorized BRP dealer, proof of purchase of the product and must sign the repair/work order prior to starting the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of BRP.

7) WHAT BRP WILL DO

BRP's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine Can-Am ATV parts without charge for parts and labor, at any authorized BRP dealer during the warranty coverage period under the conditions described herein. No claim of breach of warranty shall be cause for cancellation or rescission of the sale of the Can-Am ATV to the owner.

In the event that service is required outside of the country of original sale, the owner will bear responsibility for any additional charges due to local practices and conditions, such as, but not limited to, freight, insurance, taxes, license fees, import duties, and any and all other financial charges, including those levied by governments, states, territories and their respective agencies.

BRP reserves the right to improve or modify products from time to time without assuming any obligation to modify products previously manufactured.

8) SUPPLIER WARRANTIES

A GPS receiver may be supplied by BRP as standard equipment on certain 2015 Can-Am ATV's. The GPS receiver is covered under the limited warranty issued by the GPS receiver's manufacturer and is not covered under this limited warranty. Please contact the following distributors if in Canada or the manufacturer if in the USA:

In the USA:

Garmin International Inc.
U.S.: 913 397-8200
U.S. Toll Free: 1 800 800-1020

Website: www.garmin.com

In Canada (one or the other):

Raytech Électronique
Tel.: 450 975-1015
Fax: 800 975-0025 / 450 975-0817
Contact: raytech@raytech.qc.ca
Web Site: www.raytech.qc.ca
Coord. GPS: N45o35.25' - W73o42.95'

Naviclub Ltd
Tel.: 418 835-9279
Fax: 418 835-6681
Contact: naviclub@naviclub.com
Web Site: www.naviclub.com

9) TRANSFER

If the ownership of a product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided that BRP is notified of such transfer of ownership in the following way:

1. The former owner contacts BRP (at the phone number provided below) or an authorized BRP dealer and gives the coordinates of the new owner; or
2. BRP or an authorized BRP dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the coordinates of the new owner.

10) CONSUMER ASSISTANCE

In the event of a controversy or a dispute in connection with this limited warranty, BRP suggests that you try to resolve the issue at the dealership level. We recommend discussing the issue with the authorized dealer's service manager or owner.

If the issue has not yet been resolved, please submit your complaint in writing or call the appropriate number below:

In Canada

BOMBARDIER RECREATIONAL PRODUCTS INC.

CAN-AM ATV

CUSTOMER ASSISTANCE CENTER

75 J.-A. Bombardier Street

Sherbrooke QC J1L 1W3

Tel.: 819 566-3366

In USA

BRP US INC.

CAN-AM ATV

CUSTOMER ASSISTANCE CENTER

7575 Bombardier Court

Wausau WI 54401

Tel.: 715 848-4957

* In the USA, products are distributed and serviced by BRP US Inc.

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CUSTOMER INFORMATION

PRIVACY INFORMATION

BRP wishes to inform you that your coordinates will be used for safety and warranty related purposes. Furthermore, BRP and its affiliates may use its customer list to distribute marketing and promotional information about BRP and related products.

To exercise your right to consult or correct your data, or to be removed from the addressee-list for direct marketing, please contact BRP.

By E-mail: privacyofficer@brp.com

By mail: BRP
Senior Legal Counsel-Privacy Officer
726 St-Joseph
Valcourt QC
Canada
J0E 2L0

CHANGE OF ADDRESS/OWNERSHIP

If your address has changed or if you are the new owner of the ATV, be sure to notify BRP by either:

- Mailing one of the change of address cards on the following pages
- Calling at 715 848-4957 (USA) or 819 566-3366 (Canada)
- Notifying an authorized Can-Am dealer.

In case of change of ownership, please join a proof that the former owner agreed to the transfer.

Notifying BRP, even after the expiration of the limited warranty, is very important as it enables BRP to reach the ATV owner if necessary, like when safety recalls are initiated. It is the owner's responsibility to notify BRP.

STOLEN UNITS: If your personal ATV is stolen, you should notify BRP or an authorized Can-Am dealer. We will ask you to provide your name, address, phone number, the vehicle identification number and the date it was stolen.

BOMBARDIER RECREATIONAL PRODUCTS INC.

Warranty Department
75 J.-A. Bombardier Street
Sherbrooke QC J1L 1W3
Canada

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CHANGE OF ADDRESS

CHANGE OF OWNERSHIP



VEHICLE IDENTIFICATION NUMBER

Model Number

Vehicle Identification Number (V.I.N.)

OLD ADDRESS
OR PREVIOUS OWNER:

NAME

NO.

STREET

APT

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

COUNTRY

TELEPHONE

NEW ADDRESS
OR NEW OWNER:

NAME

NO.

STREET

APT

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

COUNTRY

TELEPHONE

E-MAIL ADDRESS

V00A2F

CHANGE OF ADDRESS

CHANGE OF OWNERSHIP



VEHICLE IDENTIFICATION NUMBER

Model Number

Vehicle Identification Number (V.I.N.)

OLD ADDRESS
OR PREVIOUS OWNER:

NAME

NO.

STREET

APT

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

COUNTRY

TELEPHONE

NEW ADDRESS
OR NEW OWNER:

NAME

NO.

STREET

APT

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

COUNTRY

TELEPHONE

E-MAIL ADDRESS

V00A2F

ATV MODEL No. _____

VEHICLE IDENTIFICATION NUMBER (V.I.N.) _____

ENGINE IDENTIFICATION NUMBER (E.I.N.) _____

Owner: _____
NAME

No. STREET APT

CITY STATE/PROVINCE ZIP/POSTAL CODE

Purchase Date _____
YEAR MONTH DAY

Warranty Expiry Date _____
YEAR MONTH DAY

To be completed by the dealer at the time of the sale.

DEALER IMPRINT AREA

V00A21L

Please verify with your dealer to ensure your vehicle has been registered with BRP.

While reading this Operator's Guide, remember that:

 **WARNING**

Indicates a potential hazard that, if not avoided, could result in serious injury or death.

 **WARNING**

THIS VEHICLE CAN BE HAZARDOUS TO OPERATE.

A collision or rollover can occur quickly, even during routine maneuvers such as turning and driving on hills or over obstacles, if you fail to take proper precautions.

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

- **BEFORE YOU OPERATE THIS VEHICLE, READ THIS OPERATOR'S GUIDE AND ALL ON-PRODUCT SAFETY LABELS.**
- **NEVER OPERATE THIS VEHICLE WITHOUT PROPER INSTRUCTIONS.** Complete a certified training course.
- **NEVER CARRY A PASSENGER.** You increase your risk of losing control if you carry a passenger.
- **NEVER OPERATE THIS VEHICLE ON A PAVED SURFACE.** You increase your risk of losing control if you operate this vehicle on pavement.
- **NEVER OPERATE THIS VEHICLE ON PUBLIC ROADS.** You can collide with another vehicle if you operate this vehicle on a public road.
- **ALWAYS WEAR AN APPROVED HELMET,** eye protection, and protective clothing.
- **NEVER USE WITH DRUGS OR ALCOHOL.** They slow reaction time and impair judgment.
- **NEVER OPERATE THIS VEHICLE AT EXCESSIVE SPEEDS.** You increase your risk of losing control if you operate this vehicle at speeds too fast for the terrain, visibility conditions, or your experience.
- **NEVER ATTEMPT WHEELIES, JUMPS, OR OTHER STUNTS.**

P219 001 449 CA
OPERATOR'S GUIDE, OUTLANDER X mr SERIES/ ENGLISH
GUIDE DU CONDUCTEUR SÉRIE OUTLANDER X mr / ANGLAIS

FAIT AU / MADE IN CANADA

U/M.P.C.