

ski-doo®



2009

**Operator's
Guide** includes
Safety, Vehicle
and Maintenance Information

REV-XR™

 **WARNING**

Read this guide thoroughly.
It contains important safety information.
Minimum recommended operator's age: 16 years old.
Do not remove this Operator's Guide from the vehicle.

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⚠ WARNING

Disregarding any of the safety precautions and instructions contained in this Operator's Guide, *SAFETY DVD* and on-product labels could cause 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

Congratulations on your purchase of a new SKI-DOO® snowmobile. Whatever model you have chosen, it is backed by the Bombardier Recreational Products Inc. (BRP) warranty and a network of authorized SKI-DOO snowmobile dealers ready to provide the parts, service or accessories you may require.

Your dealer is committed to your satisfaction. He has taken training to perform the initial set-up and inspection of your snowmobile as well as completed the final adjustment required to suit your specific weight and riding environment before you took possession.

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.

Know Before You Go


To learn how to reduce the risk for you, your passenger or bystanders being hurt or killed, read the following sections before you operate the vehicle:


- SAFETY INFORMATION
- VEHICLE INFORMATION.

We highly recommend that you take a safety riding course. Please check with your dealer or local authorities for availability in your area.

Safety Messages

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

 WARNING
Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **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 and passenger with this snowmobile and its various controls, safe riding and maintenance instructions.

This guide is indispensable for the proper use of the product and should be kept with this snowmobile at all times, so you can refer to it.

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. BRP, however, 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* should remain with the vehicle when it's sold.

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SNOWMOBILES 132**

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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:

- Refuel outdoors in a well ventilated area away from flames, sparks, anyone smoking and other sources of ignition.
- Never add fuel with engine running.

- Never top off the fuel tank. Leave some room for the fuel to expand with temperature changes.
- Wipe up any spilled fuel.
- Never start or operate the engine with the fuel cap removed.
- Use only an approved red gasoline container to store fuel.

Gasoline is poisonous and can cause injury or death.

- Never siphon gasoline by mouth.
- If you swallow gasoline, get any in your eye 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

The exhaust system and engine become hot during operation. Avoid contact 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 injuries, and they can make the vehicle illegal.

See your authorized SKI-DOO dealer for available accessories for your vehicle.

SPECIAL SAFETY MESSAGES

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

- ⚠ Everyone is a beginner the first time he sits behind the controls of a snowmobile regardless of previous experience in driving an automobile, a motorcycle or a motorboat. The safe use of your snowmobile is dependent on many conditions such as visibility, speed, weather, environment, traffic, vehicle condition and the condition of the driver.
- ⚠ Basic training is required for the safe operation of any snowmobile. Study your Operator's Guide paying particular attention to cautions and warnings. Join your local snowmobile club: its social activities and trail systems are planned for both fun and safety. Obtain basic instructions from your snowmobile dealer, friend, fellow club member or enroll in your state or provincial safety training program.
- ⚠ Always show a new operator how to start and stop the vehicle. Indicate the correct riding positions and, above all else, only allow him to operate the snowmobile in a restricted flat area — at least until he is completely familiar with its operation. If there is a local snowmobile operator training course existing, have him enroll.
- ⚠ The performance of some snowmobiles may significantly exceed that of other snowmobiles you have operated. Therefore, use by novice or inexperienced operators is not recommended.
- ⚠ Snowmobiles are used in many areas and in many snow conditions. Not all models perform the same in similar conditions. Always consult your snowmobile dealer when selecting the snowmobile model for your particular needs and uses.
- ⚠ Injury or death may result to the snowmobile operator, passenger or bystander if the snowmobile is used in risky conditions which are beyond the driver's, passenger's or snowmobile's capabilities or intended use.
- ⚠ BRP recommends the operator has at least 16 years old of age.
- ⚠ Know your local laws. Federal, state, provincial and local government agencies have enacted laws and regulations pertaining to the safe use and operation of snowmobiles. It is your responsibility as a snowmobiler to learn and obey these laws and regulations. Respect and observance will result in safer snowmobiling for all. Be aware of the liability property damages and insurance laws regarding your equipment.
- ⚠ Speeding can be fatal. In many cases, you cannot react or respond quickly enough to the unexpected. Always ride at a speed which is suitable to the trail, weather conditions and your own ability. Know your local rules. Speed limit may be in effect and meant to be observed.
- ⚠ Always keep right hand side of the trail.
- ⚠ Always keep a safe distance from other snowmobiles and bystanders.
- ⚠ Remember, promotional material may show risky maneuvers performed by professional riders under ideal and/or controlled conditions. You should never attempt any such risky maneuvers if they are beyond your level of riding ability.
- ⚠ Never ride under the influence of drugs or alcohol or if you feel tired or ill. Operate your snowmobile prudently.
- ⚠ Your snowmobile is not designed to be operated on public streets, roads or highways.

- ⚠ Snowmobiling at night can be a delightful experience but because of reduced visibility, be extra cautious. Avoid unfamiliar terrain and be sure your lights are working. Always carry a flashlight and spare light bulbs.
- ⚠ Never remove any original equipment from your snowmobile. Each vehicle has many built in safety features. Such features include various guards and consoles, plus reflective materials and warning labels.
- ⚠ Nature is wonderful but don't let it distract your attention from driving. If you want to truly appreciate winter's scenery, stop your snowmobile on the side of the trail so that **you** don't become a hazard to others.
- ⚠ Fences represent a very serious threat for both you and your snowmobile. Give a wide berth to telephone poles or posts.
- ⚠ Hidden wires unseen from a distance can cause serious accidents.
- ⚠ Always wear an approved safety helmet, eye protection and a face shield. This also applies to your passenger.
- ⚠ Be aware of inherent risks associated with riding off trails, such as avalanche and other natural or man made hazards or obstacles.
- ⚠ Avoid road traveling. If you must do so, and it is permitted, reduce speed. The snowmobile is not designed to operate or turn on paving. When crossing a road, make a full stop, then look carefully in both directions before crossing at a 90° angle. Be wary of parked vehicles.
- ⚠ Tailgating another snowmobile should be avoided. If the snowmobile in front of you slows for any reason, its driver and passenger could be harmed through your neglect. Maintain a safe stopping distance between you and the snowmobile in front of you. Depending on the terrain condition, stopping may require a little more space than you think. Play it safe. Be prepared to use evasive driving.
- ⚠ Venturing out alone with your snowmobile could also be hazardous. You could run out of fuel, have an accident, or damage your snowmobile. Remember, your snowmobile is capable of traveling further in half an hour than you may be able to walk in a day. Use the "buddy system". Always ride with a friend or member of your snowmobile club. Even then, tell someone where you are going and the approximate time you plan to return.
- ⚠ Meadows sometimes have low areas where water accumulate and freezes over in winter. This ice is usually glare ice. Attempting to turn or brake on this surface could cause your vehicle to spin out of control. Never brake or attempt speeding or turning on glare ice. If you do happen to travel over such a condition, reduce speed by carefully releasing the throttle.
- ⚠ Never "jump" with your snowmobile. This should be left to professional stunt men. Don't show off. Be responsible.
- ⚠ While on safari, do not "gun" the throttle. Snow and ice can be thrown back into the path of a following snowmobile. In addition, when "gunning" the throttle, the vehicle digs into and leaves an irregular snow surface for others.
- ⚠ Safaris are both fun and enjoyable but don't show off or overtake others in the group. A less experienced operator might try to do the same as you and fail. When riding with others, limit your abilities to the experience of others.
- ⚠ Always make a pre-ride inspection BEFORE you start the engine.
- ⚠ In an emergency, the snowmobile engine can be stopped by pressing down on the engine stop switch or by pulling the tether cord cap (DESS™ key).

- ⚠ Throttle mechanism should be checked for free movement and return to idle position before starting engine.
- ⚠ Always engage parking brake when vehicle is not in use.
- ⚠ Never run the engine in a non-ventilated area and/or if vehicle is left unattended.
- ⚠ Always engage parking brake before starting the engine.
- ⚠ Never operate the engine without belt guard and brake disk guard securely installed or, with hood or side panels opened or removed. Never run the engine without drive belt installed. Running an unloaded engine such as without drive belt or with track raised, can be dangerous.
- ⚠ Never charge or boost a battery while installed on snowmobile.
- ⚠ E-TEC engines: Never attempt any fuel system or electrical system maintenance or repair. Any maintenance or repair of these systems must be performed by an authorized SKI-DOO dealer.
- ⚠ Ensure the path behind is clear of obstacles or bystanders before proceeding in reverse.
- ⚠ Always remove the tether cord cap (DESS key) when vehicle is not in operation in order to prevent accidental engine starting, to avoid unauthorized use by children or others or theft.
- ⚠ Raising the rear of your snowmobile while the engine is running could cause snow, ice or debris to be thrown back at an observer. Never raise the rear of the vehicle while the engine is running. To clear or inspect the track, stop the engine, tilt the vehicle on its side and remove blockage with a piece of wood or branch. Never allow anyone near a rotating snowmobile track.
- ⚠ Do not stud the track unless it has been approved for studs. At speed, a studded track that has not been approved for studs could tear and separate from vehicle posing a risk of severe injury or death. See an authorized SKI-DOO dealer for current specific studding availability and applications.
- ⚠ You may stud the track on this vehicle model. However, you MUST only use the BRP approved type stud for use on Ski-Doo snowmobiles. DO NOT EVER use conventional studs because the track thickness is thinner than our standard tracks. The stud could tear off of track and separate from vehicle posing a potential risk of severe injury or death.
- ⚠ Never ride as a passenger unless the snowmobile is equipped with a passenger seat, and sit only on the designated passenger seat.
- ⚠ Always wear an approved helmet and follow the same dressing guidelines as those recommended for the operator and described in this guide.
- ⚠ Make sure that you are able to achieve a stable stance, both feet resting positively on the footboards of footrests with good grip, and that you are able to hold on firmly to the handholds.
- ⚠ Once underway, if you feel uncomfortable or insecure for any reason, don't wait, tell the driver to slow down or stop.

RIDING THE VEHICLE

Each operator has a responsibility to ensure the safety of other recreationists or bystanders.

You are responsible for proper operation of your vehicle as well as training those whom you allow to ride or drive. There may be noticeable handling and performance differences from one snowmobile to the other.

A snowmobile is relatively simple to operate but like any other vehicle or mechanical equipment, it can be hazardous if you or a passenger are reckless, thoughtless or inattentive. We encourage you to have an Annual Safety Inspection of your snowmobile. Please contact an authorized SKI-DOO dealer for further details. Finally, we urge you to visit an authorized SKI-DOO dealer periodically for regular and safety maintenance, as well as snowmobile accessories you may require.

Before venturing on the trails, operate the snowmobile in a restricted flat area until you are completely familiar with its operation and feel comfortable that you can safely tackle a more demanding task. Have an enjoyable and safe ride.

Pre-Ride Inspection

WARNING

The pre-operation check is very important prior to operating the vehicle. Always check the proper operation of critical controls, safety features and mechanical components before starting. If not done as specified here, severe injury or death might occur.

1. Be warmly dressed with clothing designed for snowmobiling.
2. Remove snow and ice from body including seat, footrests, controls and instruments.

3. Verify that skis and steering operate freely. Check corresponding action of skis versus handlebar.
4. Check fuel and oil for levels and leaks. Replenish as necessary and see an authorized SKI-DOO dealer in case of any leaks.
5. Verify that air silencer prefilter is free of snow.
6. All storage compartments must be properly latched and they must not contain any heavy or breakable objects. Hood and side panels must be also properly latched.

WARNING

Always use a wide base snowmobile mechanical stand to properly support vehicle during any track verification. Never take place in front or behind the snowmobile. Slowly accelerate engine in order to rotate track at very low speed when it is not on ground.

7. Make certain your snowmobile is pointed away from people or objects before you start it. No one is to be standing in front of or in back of the snowmobile.
8. Activate the throttle control lever several times to check that it operates easily and smoothly. It must return to idle position when released.
9. Verify that track and idler wheels are free to turn and not frozen.
10. Activate the brake control lever and make sure the brake fully applies before the brake control lever touches the handlebar grip. It must fully return when released.
11. Check the parking device. Apply parking brake and check if it operates properly.

12. Lights — The headlights, taillight and brake light are standard equipment. Be sure lights are clear of dirt, slush or snow and are in good working order or condition.
13. Check operation of tether cord cap (DESS key), engine stop switches, headlight switch (HI-LO), taillight, brake light and pilot lamps.

 WARNING

All adjustable features should be positioned at optimal setting. Securely tighten all adjustment locks.

PRE-RIDE CHECK LIST

ITEM	OPERATION	✓
Clothing	Be warmly dressed with clothing designed for snowmobiling.	
Body including seat, footrests, lights, controls and instruments	Check that there is no snow or ice.	
Skis and steering	Check for free movement and proper action.	
Fuel and oil	Check for proper level and leaks.	
Air silencer prefilter	Check that there is no snow or ice.	
Storage compartment	Check for proper latching and no heavy or breakable objects.	
Adjustable features	Check for optimal adjustment and securely tightened adjustment locks.	
Vehicle vicinity	Snowmobile must be pointed away from people or objects. No one is to be standing in front of or in back of the snowmobile.	
Throttle lever	Check proper action.	
Track and idler wheels	Check for free movement.	
Brake lever	Check proper action.	
Parking device	Check proper action.	
Switches and lights	Check proper action. Tether cord must be attached to driver clothing eyelet.	

How to Ride

Riding Gear

Proper snowmobile clothing should be worn. It should be comfortable and not too tight. Always check the weather forecast before going on a ride. Dress for the coldest weather expected. Thermal underwear next to the skin also provides a good insulation.

Wear an approved helmet at all times for safety and comfort. A stocking type cap, balaclava and face mask should always be carried or worn. Goggles or a face shield that attaches to the helmet are indispensable.

Hands should be protected by a pair of snowmobile gloves or mitts which have sufficient insulation and allow use of thumbs and fingers for operation of controls.

Rubber bottom boots with either a nylon or a leather top, with removable felt liners are best suited for snowmobiling.

You should keep yourself as dry as possible when snowmobiling. When you come indoors, take your snowmobile suit and boots off and make certain they dry properly.

Do not wear long scarfs and loose apparel that could get caught in moving parts.

What to Bring

Every snowmobiler should carry at least the following basic parts and tools that can help him and others in an emergency:

- This Operator's Guide
- Spare spark plugs and wrench
- Friction tape
- Spare drive belt
- Spare starter rope
- Spare light bulbs
- Tool kit (including at least pliers, screwdriver, adjustable wrench)

- Knife
- Flashlight.

Include other items depending on the length and time of your ride.

Riding Position

Your riding position and balance are the two basic principles of making your snowmobile go where you want it to. When turning on the side of a hill, you and your passenger must be ready to shift body weight to help it turn in the desired direction. Driver and passenger(s) must never attempt this maneuvering by placing feet outside of the vehicle. Experience will teach you how much lean to put into turns at different speeds and how much you will have to lean into a slope to maintain proper balance.

Generally, the riding position for best balance and control is sitting. However, the posting, kneeling or standing positions are also used under certain conditions.

The novice driver should become familiar with the snowmobile through practice on a level area at slow speeds before venturing afield.

WARNING

Do not attempt any maneuvers if they are beyond your abilities.

Sitting

Feet on the running boards, body mid-way back on seat is an ideal position when operating the snowmobile over familiar, smooth terrain. Knees and hips should remain flexible to absorb shocks.



Posting

A semi-sitting position with the body off the seat and the feet under the body in a sort of squatting posture, thus allowing the legs to absorb the shocks when traveling over uneven terrain. Avoid abrupt stops.



Kneeling

This position is achieved by placing one foot firmly on the running board and the opposite knee on the seat. Avoid abrupt stops.



Standing

Place both feet on the running boards. Knees should be flexed to absorb the shock from surface bumps. This is an effective position to see better and to shift weight as conditions dictate. Avoid abrupt stop.



Carrying a Passenger

Certain snowmobiles are designed for an operator only, others can allow one passenger only, and others can allow up to two passengers. Refer to the indications on the vehicles to know if any particular snowmobile can accommodate passengers or not, and if so, how many. Always respect those indications. Overloading is dangerous because snowmobiles are not designed for it.

Even when passengers are allowed, you must make sure that the persons who would like to become passengers are physically fit for snowmobiling.

⚠ WARNING

Any passenger must be able to firmly lay his feet on the footrests and keep his hands on the grab handles or seat strap at all times when seated. Respecting those physical criteria is important to ensure that the passenger is stable and to reduce the risks of ejection.

On snowmobiles allowing two passengers, if you have an adult and a child for passenger, BRP recommends that the child sits in the center location. This allows an adult sitting in the rear seat to keep a visual contact with the child and hold him if necessary. In addition, the child is best protected against the wind and cold temperature if seated in the center location.

Each operator has a responsibility to ensure the safety of his passengers and should inform them of snowmobiling basics.

WARNING

- Passengers must only sit on designated passenger seats. Never allow anyone to sit between the handlebar and the operator.
- Each passenger seat must have a strap or grab handles and meet SSCC standards.
- Passengers and operators must always wear an approved helmets and warm clothing appropriate for snowmobiling. Make sure that no skin is exposed.
- Once underway, if a passenger feels uncomfortable or insecure for any reason, he must not wait, and tell the driver to slowdown or stop.

Riding with passengers on board is different than riding alone. The operator has the benefit of knowing what will be the next maneuver and is able to prepare himself accordingly. The operator also benefits from the support of his grip on the handlebar. In contrast, the passengers have to rely on the operator's careful and safe operation of the vehicle. In addition, "body english" is limited with passengers, and the operator can sometimes see more of the trail ahead than the passengers. Therefore, smooth starting and stopping are required with passengers, and

the operator must slow down. The operator must also warn passengers of side hills, bumps, branches, etc. An unforeseen bump can leave you passenger-less. Remind your passengers to lean into the turn with you, without causing the vehicle to topple. Be extremely careful, go more slowly and check the passengers frequently.

WARNING

When riding with a passenger:

- Braking ability and steering control are reduced. Decrease speed and allow extra space to maneuver.
- Adjust suspension according to weight.

For complete information on how to adjust the suspension, please refer to the *TUNE YOUR RIDE* section.

Use extra caution and go even more slowly with young passengers. Check frequently to make certain the child has a firm grip and is properly positioned with his feet on the running boards.

Terrain/Riding Variations

Groomed Trail

On a maintained trail, sitting is the most preferred riding position. Do not race and, above all, keep to the right hand side of the trail. Be prepared for the unexpected. Observe all trail signs. Do not zigzag from one side of the trail to the other.

Ungroomed Trail

Unless there has been a fresh snowfall you can expect "washboard" and snowdrift conditions. Taken at excessive speeds, such conditions can be physically harmful. Slow down. Hold on the handlebar and assume a posting position. Feet should be under the body assuming a crouched position to absorb any jarring effect. On longer

stretches of “washboard” trails, the kneeling position of one knee on the seat can be adopted. This provides a certain amount of comfort, while at the same time keeps the body loose and capable of vehicle control. Beware of hidden rocks or tree stumps partially hidden by a recent snowfall.

Deep Snow

In deep “powder” snow, your vehicle could begin to “bog” down. If this occurs, turn in as wide an arc as possible and look for a firmer base. If you do get “bogged”, and it happens to everyone, do not spin your track as this makes the vehicle sink deeper. Instead, turn the engine off, get off and move the back of the vehicle onto new snow. Then tramp a clear path ahead of the vehicle. A few feet will generally suffice. Restart the engine. Assume the standing position and rock the vehicle gently as you steadily and slowly apply the throttle. Depending on whether the front or rear end of the vehicle is sinking, your feet should be placed on the opposing end of the running boards. Never place foreign material beneath the track for support. Do not allow anyone to stand in front of, or to the rear of, the snowmobile with the engine running. Stay away from the track. Personal injury will result if contact is made with the revolving track.

Frozen Water

Traveling frozen lakes and rivers can be fatal. Avoid waterways. If you are in an unfamiliar area, ask the local authorities or residents about the ice condition, inlets, outlets, springs, fast moving currents or other hazards. Never attempt to operate your snowmobile on ice that may be too weak to support you and the vehicle. Operating a snowmobile on ice or icy surfaces can be very dangerous if you do not observe certain precautions. The very nature of ice is foreign to good control of a snowmobile or any vehicle.

Traction for starting, turning or stopping is much less than that on snow. Thus, these distances can be multiplied manyfold. Steering is minimal, and uncontrolled spins are an ever present danger. When operating on ice, drive slowly with caution. Allow yourself plenty of room for stopping and turning. This is especially true at night.

Hard Packed Snow

Don't underestimate hard packed snow. It can be difficult to negotiate as both skis and track do not have as much traction. Best advice is to slow down and avoid rapid acceleration, turning or braking.

Uphill

There are two types of hills you can encounter — the open hill on which there are few trees, cliffs or other obstacles, and a hill that can only be climbed directly. On an open hill, the approach is to climb it by side hilling or slaloming. Approach at an angle. Adopt a kneeling position. Keep your weight on the uphill side at all times. Maintain a steady, safe speed. Continue as far as you can in this direction, then switch to an opposite hill angle and riding position.

A direct climb could present problems. Choose the standing position, accelerate before you start the climb and then reduce throttle pressure to prevent track slippage.

In either case, vehicle speed should be as fast as the incline demands. Always slow down as you reach the crest. If you cannot proceed further, don't spin your track. Turn the engine off, free the skis by pulling them out and downhill, place the rear of the snowmobile uphill restart the engine and ease it out with slow even throttle pressure. Position yourself to avoid tipping over, then descend.

Downhill

Downhill driving requires that you have full control of your vehicle at all times. On steeper hills, keep your center of gravity low and both hands on the handlebar. Maintain slight throttle pressure and allow the machine to run downhill with the engine operating. If a higher than safe speed is reached, slow down by braking but apply the brake with frequent light pressure. Never jam the brake and lock the track.

Side Hill

When crossing a side hill or traversing up or downhill, certain procedures must be followed. All riders should lean towards the slope as required for stability. The preferred operating positions are the kneeling position, with the knee of the down hill leg on the seat and the foot of the uphill leg on the running board, or the posting position. Be prepared to shift your weight quickly as needed. Side hills and steep slopes are not recommended for a beginner or a novice snowmobiler.

Slush

Slush should be avoided at all times. Always check for slush before starting across any lake or river. If dark spots appear in your tracks, get off the ice immediately. Ice and water can be thrown rearward into the path of a following snowmobile. Getting a vehicle out of a slush area is strenuous and in some cases, impossible.

Fog or Whiteouts

On land or water, fog or visibility-limiting snow can form. If you have to proceed into the fog or heavy snow, do so slowly with your lights on and watch intently for hazards. If you are not sure of your way, do not proceed. Keep a safe distance behind other snowmobilers to improve visibility and reaction time.

Unfamiliar Territory

Whenever you enter an area that is new to you, drive with extreme caution. Go slow enough to recognize potential hazards such as fences or fence posts, brooks crossing your path, rocks, sudden dips, guy wires and countless other obstacles which could result in a termination of your snowmobile ride. Even when following existing tracks, be cautious. Travel at a speed so you can see what is around the next bend or over the top of the hill.

Bright Sunshine

Bright sunny days can considerably reduce your vision. The glare from sun and snow may blind you to the extent that you cannot easily distinguish ravines, ditches or other obstacles. Goggles with colored lenses should always be worn under these conditions.

Unseen Obstruction

There may be obstructions hidden beneath the snow. Driving off established trails and in the woods requires reduced speed and increased vigilance. Driving too fast in an area can make even minor obstacles very hazardous. Even hitting a small rock or stump could throw your snowmobile out of control and cause injury to its riders. Stay on established trails to reduce your exposure to hazards. Be safe, slow down and enjoy the scenery.

Hidden Wires

Always be on the lookout for hidden wires, especially in areas that may have been farmed at one time or another. Too many accidents have been caused by running into wires in the fields, guy wires next to poles and roads, and into chains and wires used as road closures. Slow speeds are a must.

Obstacles and Jumping

Unplanned jumps of snowdrifts, snowplow ridges, culverts or indistinguishable objects can be dangerous. You can avoid them by wearing the proper color lenses or face shields and by operating at a lower speed.

Jumping a snowmobile is an unsafe and dangerous practice. However, if the trail does suddenly drop away from you, crouch (stand) towards the rear of the vehicle and keep the skis up and straight ahead. Apply partial throttle and brace yourself for the impact. Knees must be flexed to act as shock absorbers.

Turning

Depending on terrain conditions, there are two preferred ways to turn or corner a snowmobile. For most snow surfaces, "body english" is the key to turning. Leaning towards the inside of the turn and positioning body weight on the inside foot will create a "banking" condition beneath the track. By adopting this position and positioning yourself as far forward as possible, weight will be transferred to the inside ski.

On occasion, you will find that the only way to turn the vehicle about in deep snow is to pull the snowmobile around. Do not over-exert yourself. Get assistance. Remember to always lift using your legs as opposed to your back.



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Road Crossing

In some cases, you will be approaching the road from a ditch or snowbank. Choose a place where you know you can climb without difficulty. Use the standing position and proceed with only as much speed needed to crest the bank. Stop completely at the top of the bank and wait for all traffic to clear. Judge the drop to the roadway. Cross the road at a 90° angle. If you encounter another snowbank on the opposite side, position your feet near the rear of the vehicle. Remember, your snowmobile is not designed to operate on bare pavement and steering on this type of surface is more difficult.

Railroad Crossing

Never ride on railroad tracks. It is illegal. Railroad tracks and railroad rights-of-way are private property. A snowmobile is no match for a train. When crossing a railroad track, stop, look and listen.

Night Rides

The amount of natural and artificial light at a given time can effect your ability to see or to be seen. Nighttime snowmobiling is delightful. It can be a unique experience if you acknowledge your reduced visibility. Before you start, make certain your lights are clean and work properly. Drive at speeds that will allow you to stop in time when you see an unknown or dangerous object ahead. Stay on established trails and never operate in unfamiliar territory. Avoid rivers and lakes. Guy wires, barbed wire fences, cabled road entrances and other objects such as tree limbs are difficult to see at night. Never drive alone. Always carry a flashlight. Keep away from residential areas and respect the right of others to sleep.

Safari Riding

Before starting out, designate a "trail boss" to lead the party and another person to follow-up at the end of the party. Ensure that all members of the party are aware of the proposed route and destination. Make certain that you are carrying all necessary tools and equipment and that you have sufficient fuel to complete the trip. Never overtake the trail boss or, for that matter, any other snowmobile. Use down-the-line hand signals to indicate hazards or intent of direction change. Assist others whenever necessary.

It is always IMPORTANT to keep a safe distance between each snowmobile. Always maintain a safe interval and allow sufficient stopping distance. Don't be a tailgater. Know the position of the machine ahead.

Signals

If you intend to stop, raise either hand straight above your head. A left turn is indicated by extending your left hand straight out in the proper direction. For right turns, extend the left arm and raise the hand to a vertical position so it forms a right angle at the elbow. Every snowmobiler should relay any signal to the ones behind.

Trail Stops

Whenever possible, pull off the trail when you stop. This will reduce the hazard to other snowmobilers using the trail.

Trails and Signs

Trail signs are used to control, direct or regulate the use of snowmobiles on trails. Become familiar with all signs used in the area where you are snowmobiling.

Environment

Wildlife compliments your snowmobiling day. Snowmobile tracks provide firm ground over which animals can

travel from area to area. Do not violate this privilege by chasing or harassing wildlife. Fatigue and exhaustion can lead to animal's death. Avoid areas posted for the protection or feeding of wildlife.

If you happen to be fortunate enough to see an animal, stop your snowmobile and observe quietly.

The guidelines that we support are not designed to limit your snowmobiling fun, but to preserve the beautiful freedom that you can experience only on a snowmobile! These guidelines will keep snowmobilers healthy, happy and able to introduce others to what they know and enjoy about their favorite winter pastime. So, the next time you hit the trails on a cool, crisp and clear winter day, we ask you to remember that you are paving the way for the future of our sport. Help us lead it down the right path! From all of us at BRP, thank you for doing your share.

There is nothing more exhilarating than snowmobiling. Venturing onto snowmobile trails that criss-cross wild areas is an exciting and healthy winter sport. However, as the number of people using these recreational parks increases, so does the potential for damage to the environment. Abuse of land, facilities and resources inevitably leads to restrictions and closures of both private and public land.

In essence, the greatest threat to our sport, is all around us. Which leaves us with one logical choice. When we snowmobile, we must always ride responsibly.

The vast majority respect the law and the environment. Each of us must set an example for those who are new to the sport, young and old alike.

It is in every one's best interest to tread lightly into our recreational areas. Because, in the long run, to protect the sport we must preserve the environment.

Recognizing the importance of this issue and the need for snowmobilers to do their share in preserving areas that make it possible to enjoy our sport, BRP has developed the "Light Treading Is Smart Sledding" campaign for snowmobilers.

Light Treading refers to more than the thread of our tracks. It's a statement of concern, respect and willingness to take the lead and take action. It applies to the environment in general, its proper care and maintenance, its natural inhabitants and all enthusiasts and the public at large who enjoy the great outdoors. With this theme, we invite all snowmobilers to remember that respecting the environment is not only critical to the future of our industry but to future generations.

Light Treading in no way suggests you should curb your appetite for snowmobiling fun! It simply means tread with respect!

The fundamental objective of Light Treading is one of respect for where and how you ride a snowmobile. You're a light treader when you follow the principles below.

Become informed. Obtain maps, regulations and other information from the Forest Service or from other public land agencies. Learn the rules and follow them and that goes for speed limits, too!

Avoid running over young trees, shrubs, and grasses and don't cut wood. On flatlands or areas where trail riding is popular, it's important to ride only where authorized. Remember, there is a link between protecting your environment and your own safety.

Respect wildlife and be particularly sensitive of animals that are rearing young or suffering from food shortage. Stress can sap scarce energy reserves. Refrain from riding in areas where only animals are intended to tread!

Obey gate closures and regulatory signs and remember, light treaders don't litter!

Stay out of wilderness areas. They're closed to all vehicles. Know where the boundaries are.

Obtain permission to travel across private land. Respect the rights of landowners and other people's privacy. Remember, snowmobile technology has lowered the noise factor considerably, but you still shouldn't rev your engines where quiet "is the order of the day".

Snowmobilers know all too well the efforts that have been made throughout the sport's history to enjoy access to areas where people can snowmobile safely and responsibly. This effort continues today, as strong as ever.

Respecting the areas where we ride... wherever they may be... is the only way to ensure their future enjoyment. That's one major reason why we know you'll agree that Light Treading is smart sledding! And there are more.

Enjoying the opportunity to see winter and all its natural majestic wonders, is an experience cherished by snowmobilers. Light Treading will preserve this opportunity and will make it possible for us to expose others to the beauty of winter and the unique thrill of our sport! Light Treading will help our sport to grow!

Finally, Light Treading is the sign of a smart snowmobiler. You don't have to leave big tracks or careen through a virgin forest to show you can ride. So whether you're driving a high performance Ski-Doo, a sporty MX Z snowmobile or any other make or model, show you know what you're doing. Show you know how to send snow flying and make tracks with a light touch!

TRACTION ENHANCING PRODUCTS

NOTE: This section is applicable to snowmobiles equipped with a factory installed track that has been approved by BRP for special studs installation.

Using traction enhancing products such as, more aggressive ski carbide runners and/or studs on your snowmobile will change its behavior, particularly in terms of manoeuvrability, acceleration, and braking.

Using traction enhancing products gives a better grip on packed snow and ice, but has no noticeable effect on soft snow. For this reason, driving a snowmobile equipped with traction enhancing products requires a certain adaptation period. If your snowmobile is equipped with traction enhancing products, be sure to take plenty of time to get used to the way it handles when turning, accelerating, and braking.

Also, always check local regulations concerning the use of traction enhancing products on snowmobiles. Always drive your snowmobile in a responsible manner, respecting the environment and other people's property.

Manoeuvrability

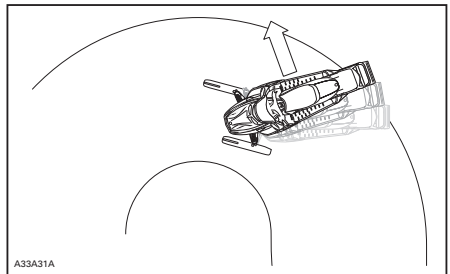
Using traction enhancing products such as, more aggressive ski carbide runners and/or studs makes the snowmobile grip the ground better at both the front and at the rear. The use of carbide runners is therefore required to give the skis a better grip, so that the front and rear of the snowmobile are in balance. While off-the-shelf carbide ski runners are adequate, they don't necessarily give you optimal control, since that depends on your personal preferences, your riding style, and how your suspension is adjusted.

WARNING

If the front and rear of the snowmobile are out of balance due to an incorrect combination of traction enhancing products, the snowmobile may tend to oversteer or understeer, which could lead to a loss of control.

Oversteering

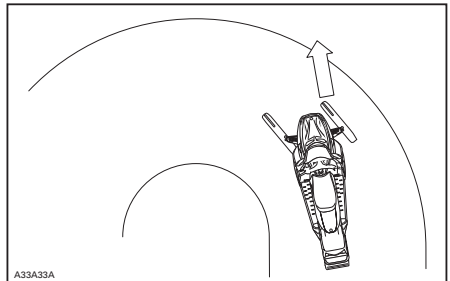
In certain conditions, using more aggressive ski carbide runners without studs on the rear track could make the snowmobile prone to oversteering, see illustration.



OVERSTEERING

Understeering

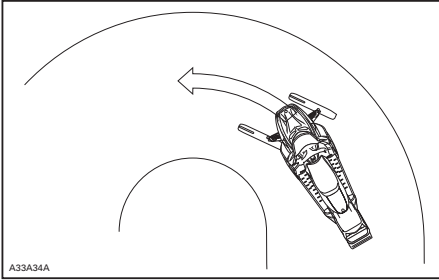
In certain conditions, the use of studs on the track could make the snowmobile prone to understeering if the skis are not equipped with more aggressive ski carbide runners, see illustration.



UNDERSTEERING

Controlled Driving

A balanced combination of carbide ski runners and studs on the track ensures adequate control and better handling, see illustration.



CONTROLLED DRIVING

Acceleration

Using studs on the track will allow your sled to accelerate better on packed snow and ice but will have no noticeable effect on soft snow. This can cause sudden variations in traction under certain conditions.

⚠ WARNING

To prevent surprises that could lead to a loss of control of the snowmobile, possibly resulting in serious injury or death:

- Always go easy on the throttle.
- NEVER try to spin the track to make the rear of the snowmobile skid.

This could cause debris or ice to be thrown violently backwards, possibly injuring others nearby or on snowmobiles behind you.

Braking

As in the case of acceleration, using studs on the track will give you better braking capacity on packed snow or ice but will have no noticeable effect on soft snow. Braking may thus vary suddenly under certain conditions. Be sure to use restraint in braking to

keep from blocking the track in order to avoid surprises that could lead to a loss of control.

Important Safety Rules

⚠ WARNING

Centrifugal force could cause debris, damaged or loose studs, pieces of torn track, or an entire severed track to be violently thrown backwards out of the tunnel with tremendous force, possibly resulting in the loss of a leg or other serious injury. To prevent serious injury to individuals near the snowmobile:

- NEVER stand behind or near a moving track.
- Always use a wide-base snowmobile stand with a rear deflector panel.
- When the track is raised off the ground, only run it at the lowest possible speed.

Traction Enhancing Products Effect on the Snowmobile Durability

The use of traction enhancing products can increase the load and the stress on certain snowmobile components, as well as the vibration level. This can cause premature wear on parts such as belts, brake linings, bearings, chain, chaincase sprocket, and on approved studded tracks, shorten track life. Always proceed with a visual inspection of your track before each use. For more information, refer to the *TRACK* section in *MAINTENANCE INFORMATION*.

Studs on the track can also cause serious damage to your snowmobile if it is not equipped with the tunnel protectors designed for your particular model. Damage to the electrical wiring or perforation of the heat exchangers are

potential hazards, that could cause the engine to overheat and be severely damaged.

⚠ WARNING

If tunnel protectors are excessively worn or not installed, the gas tank could be punctured, causing a fire.

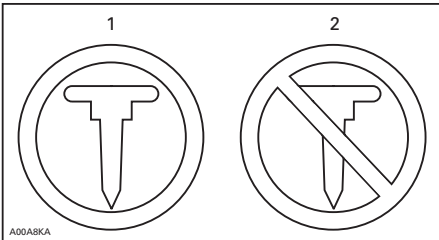
NOTICE Ask your dealer for the appropriate tunnel protectors model and kit number required for your snowmobile.

NOTE: Consult the BRP limited warranty to find out what warranty limitations are related to the use of studs.

Installation of Studs

⚠ WARNING

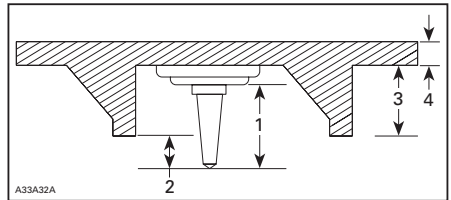
Never stud a track that has not been approved for studs. Approved tracks can be identified by a stud symbol (see illustration below) molded into the track surface. Installing studs on an unapproved track could increase the risk of the track tearing or severing, possibly resulting in serious injury or death.



TRACK SYMBOLS
 1. Approved
 2. NOT Approved

To ensure safe and proper installation, BRP recommends to have the studs installed by your dealer.

- Use only the BRP approved special studs.
- Never use studs that exceed the height of your snowmobile's track profile by more than 9.5 mm (3/8 in).



INSTALLATION OF STUDS

1. Stud size
2. Penetration range 6.4 to 9.5 mm (1/4 to 3/8 in)
3. Track lug height
4. Track belt thickness

⚠ WARNING

- See an authorized SKI-DOO dealer for current specific stud- ing availability and applications.
- Always consult the traction product manufacturer's installation instructions and recommendations before having your dealer install studs and runners.

⚠ WARNING

- You **MUST** only use the BRP approved stud type on these Ski-Doo snowmobiles. **DO NOT EVER** use conventional stud because, the track thickness is thinner than our standard tracks and the stud could tear off of track and separate from vehicle posing a potential risk of severe injury or death.
- Studs should only be installed in the locations indicated by molded bulges in the track surface.
- Never stud a track with a profile of 35 mm (1.375 in) or more.
- The number of studs installed must always perfectly match the pattern of molded bulges in the track. Installing an incorrect number of studs can increase the risk of track tearing or severing, possibly resulting in serious injury or death.
- It is very important to follow the torque specifications for the stud bolts. Improper installation of studs can increase the risk of track tearing or severing, possibly resulting in serious injury or death.

- Missing studs
- Studs that are torn off the track
- Missing track guide(s)
- Also, ensure that studs nut are tightened to the recommended torque.

On approved studded tracks, replace broken or damaged studs immediately. If your track shows signs of deterioration, it must be replaced immediately. When in doubt, ask your dealer. Always proceed with a visual inspection of your track before each use.

⚠ WARNING

Riding with a damaged track or studs could lead to loss of control, resulting in a risk of serious injury or death.

Inspection

PROCEED WITH A VISUAL INSPECTION OF YOUR TRACK BEFORE EACH USE.

Look for any defects, such as:

- Perforations in the track
- Tears in the track (particularly around traction holes on studded tracks)
- Lugs that are broken or torn off, exposing portions of rods
- Delamination of the rubber
- Broken rods
- Broken studs (studded tracks)
- Bent studs (studded tracks)

HANG TAG

VEHICLE ENGINE DESCRIPTION:
XXXXX

EPA CERTIFIED

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

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



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IMPORTANT ON-PRODUCT LABELS

Safety standards for snowmobiles have been adopted by the Snowmobile Safety and Certification Committee (SSCC) of which BRP is a proud participating member. Assurance that your snowmobile meets these standards is easily checked by locating the Certification Label on a right vertical portion of the vehicle.

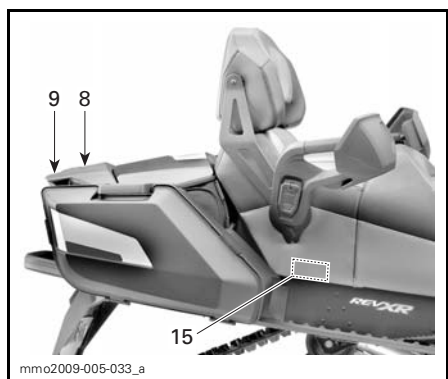
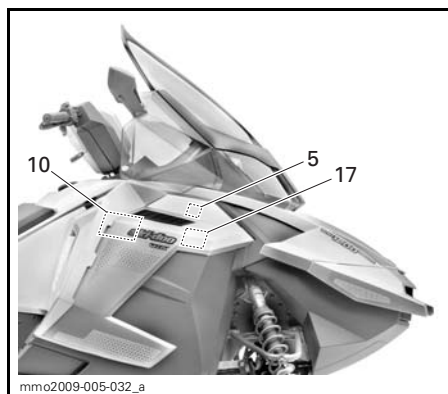
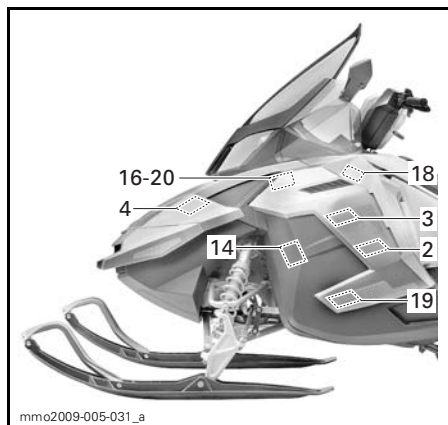
This label shows that an independent testing laboratory has verified compliance with the SSCC safety standards.

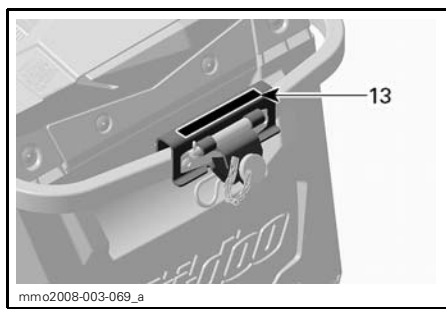
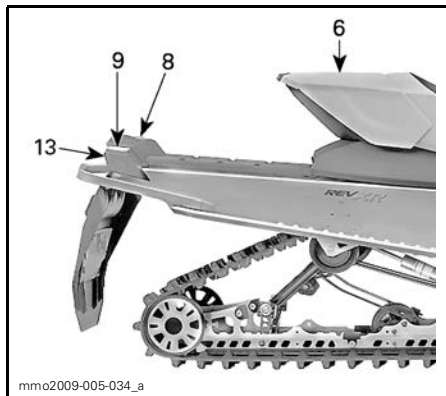


Other important labels on the vehicle are WARNING or CAUTION labels relating to safety, maintenance and/or snowmobile operation. Ensure all such labeling is retained on the vehicle and its content is followed by vehicle operator and passenger.

If missing or damaged, the decals can be replaced free of charge. See an authorized SKI-DOO dealer.

Please read the following instructions carefully before operating this snowmobile.





▲ WARNING

- Read and understand all warning labels and operator's guide before operation. Operator's guide is located in the under seat base. Pull latch located under front lip of seat and slide it to the rear to have access. If guide is missing, ask your dealer for a new one.
- Get familiar with your vehicle. Inexperienced riders may overlook risks and be surprised by vehicle's specific behavior and terrain conditions. Ride slowly.
- Excessive speed and reckless driving can kill! ALWAYS adjust your speed according to snow conditions and circumstances.
- Steering control and braking ability may be reduced on hard-pack snow, ice or roads. Reduce speed & allow more space to stop or turn.
- Respect laws on minimum operator age. Manufacturer recommends a minimum operating age of 16 years old.
- Never open side panels or hood while engine is running or if vehicle is in motion. Ensure to remove KEYS before opening those.

BEFORE STARTING :

1. Attach tether cord to your clothing.
2. Check proper operation of the throttle and brake levers each time before starting. They must return to their initial position when released.
3. Apply parking brake.
4. Turn handlebars all the way in both directions to check for interference and insure free operation.

AFTER STARTING :

1. Pull-out tether cord to check if engine shuts off.
2. Re-start and push in engine cut-off switch to check if engine shuts off.
3. Disengage parking brake before riding to avoid liding.

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INSTRUCTION 1

CAUTION	ATTENTION
<ul style="list-style-type: none"> •To comply with noise regulations, this engine is designed to operate with an air intake silencer. •Operation without air intake silencer or with one not properly installed may cause engine damage. 	<ul style="list-style-type: none"> •Le moteur a été conçu pour fonctionner avec ce silencieux d'admission afin de se conformer aux lois et règlements relatifs au bruit. •Son absence ou une mauvaise installation peut endommager le moteur.

mno2007-009-051

INSTRUCTION 2 - 600 HO E-TEC MODEL

▲ WARNING

This guard must ALWAYS be in place when engine is running. Beware of rotating parts – they could cause injuries or catch your clothing.

▲ AVERTISSEMENT

Ce garde-courroie doit TOUJOURS être en place lorsque le moteur fonctionne. Attention aux pièces en rotation – elles peuvent vous blesser ou capter vos vêtements.

516 002 670

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INSTRUCTION 3

▲ WARNING

Beware of HOT parts!

▲ AVERTISSEMENT

Attention aux pièces CHAUDES!

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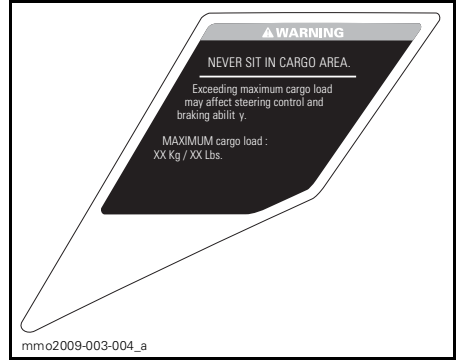
INSTRUCTION 4



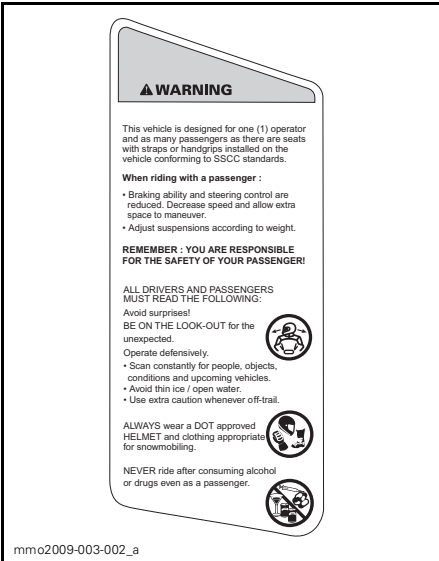
INSTRUCTION 5



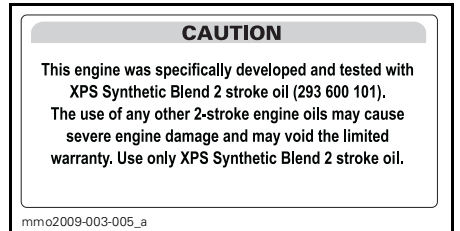
INSTRUCTION 6 - GSX AND MXZ



INSTRUCTION 9 - TYPICAL



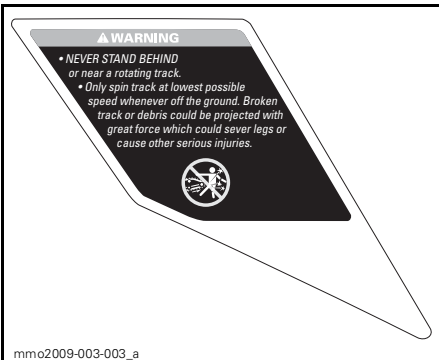
INSTRUCTION 7



INSTRUCTION 10 - 600 HO E-TEC MODEL



INSTRUCTION 11 - EUROPEAN MODELS



INSTRUCTION 8 - TYPICAL

⚠ WARNING

If you stud the track on this vehicle use special BRP approved studs ONLY.
Studding this track with conventional studs may cause studs to tear off of track and separate from vehicle posing a potential risk of severe injury or death
See the Operator's Guide that came with this vehicle for all details pertaining to track studding

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INSTRUCTION 12 - MODELS WITH TRACK APPROVED FOR STUDS

Towing a load may affect handling of your snowmobile.
• Reduce speed. • Use rigid tow bar. • Ensure that the tow bar is securely fastened. Do not exceed the following loads:

DRAWBAR xxx Kg / xxxlbs Max.
VERTICAL LOAD xx Kg / xxlbs Max.

⚠ WARNING

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INSTRUCTION 13 - RENEGADE X/GTX SE EUROPEAN MODELS

EMISSION CONTROL INFORMATION

THIS VEHICLE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE AND MEETS [xxxx] U.S. EPA REGULATIONS FOR SNOWMOBILE SI ENGINES.



ENGINE FAMILY	XXXX	FAMILLE DE MOTEUR
FEL	XXXX	LIMITE DES ÉMISSIONS DE LA FAMILLE
ENGINE DISPLACEMENT	XXXX	CYLINDRÉE
EXHAUST EMISSION CONTROL SYSTEM	XXXX	SYSTÈME DE CONTRÔLE DES ÉMISSIONS

RENSEIGNEMENTS SUR LE DISPOSITIF ANTIPOLLUTION
CE VÉHICULE EST CERTIFIÉ POUR FONCTIONNER À L'ESSENCE SANS PLOMB ET IL RÉPOND AUX NORMES [xxxx] DE L'EPA DES É.-U. POUR LES MOTONEIGES À MOTEUR SI.

SEE OPERATOR'S GUIDE FOR MAINTENANCE SPECIFICATIONS
VOIR GUIDE DU CONDUCTEUR POUR LES SPÉCIFICATIONS D'ENTRETIEN
BOMBARDIER RECREATIONAL PRODUCTS INC.

mmo2007-009-070

INSTRUCTION 14

⚠ WARNING

Before riding make sure that every seat is installed properly and securely locked in.

⚠ AVERTISSEMENT

Avant d'utiliser la motoneige, assurez-vous que tous les sièges soient bien installés et barrés en place.

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INSTRUCTION 15 - GTX MODEL

⚠ WARNING

Always electrically disconnect both fuel injectors prior to testing for ignition spark. Otherwise, fuel vapors may ignite in presence of a spark creating a fire hazard.

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INSTRUCTION 16 - 600 HO E-TEC MODEL

⚠ AVERTISSEMENT

Le condensateur peut produire une étincelle si court-circuité.
- Une étincelle peut enflammer les vapeurs d'essence.
- Garder tout objet éloigné des bornes.
- Si démonté du véhicule, toujours décharger adéquatement.

⚠ WARNING

Capacitor May Spark If Shorted.
- Spark can ignite fuel vapors.
- Keep objects away from poles.
- When removing from vehicle, always discharge properly.

CAPACITOR CONDENSATEUR



A33A20A

INSTRUCTION 17 - 600 HO E-TEC MODEL

CAUTION

Checking Engine Oil Level

- Make sure engine is at operating temperature.
- Snowmobile must be on a level surface.
- Let engine running at idle for at least 30 seconds.
- Stop engine & wipe the dipstick.
- Dipstick must be screwed in completely before checking oil level.
- This engine was specifically developed and tested with XPS Synthetic 4-stroke oil. The use of any other 4-stroke engine oils may cause severe engine damage and may void the limited warranty. Use only XPS Synthetic 4-stroke oil. (P/N 293 600 112).

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INSTRUCTION 18 - 1200 4-TEC MODEL

NOTICE

Drive pulley bolt recommended torque
XX-XX lb-ft / XXX-XXX N-m

Not applying the recommended torque may result in a major failure of the drive pulley and the engine. Refer to the shop manual for the complete assembly procedure.

Couple de serrage recommandé pour le boulon de la poulie motrice
XXX-XXX N.m / XXX-XX lb-ft

Ne pas appliquer le couple de serrage recommandé pourrait entraîner un bris majeur à la poulie motrice et au moteur. Référez au manuel de réparation pour avoir la procédure complète d'assemblage.

mmo2009-005-002

INSTRUCTION 19

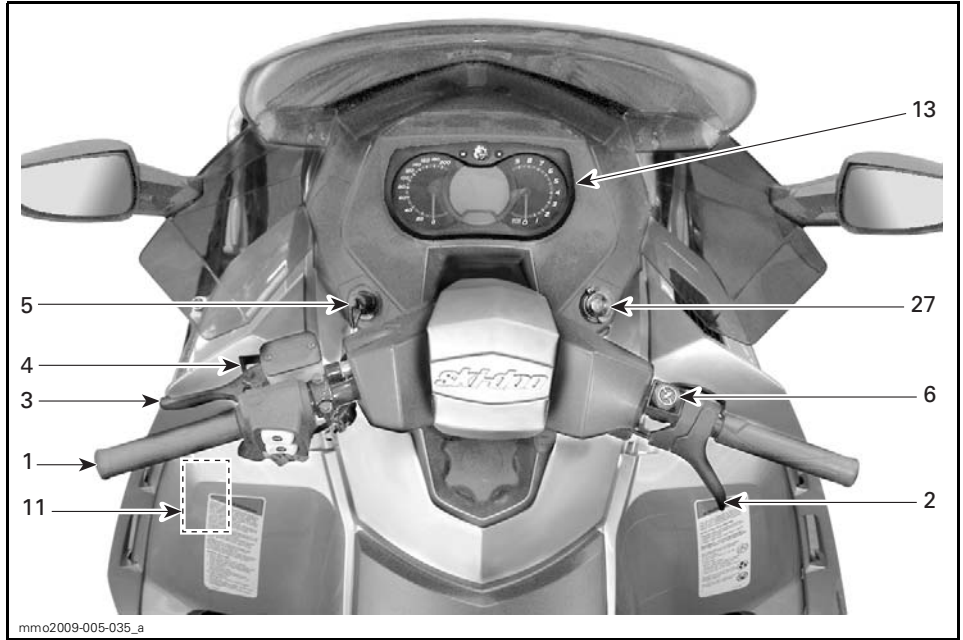


INSTRUCTION 20 - 600 HO E-TEC MODEL

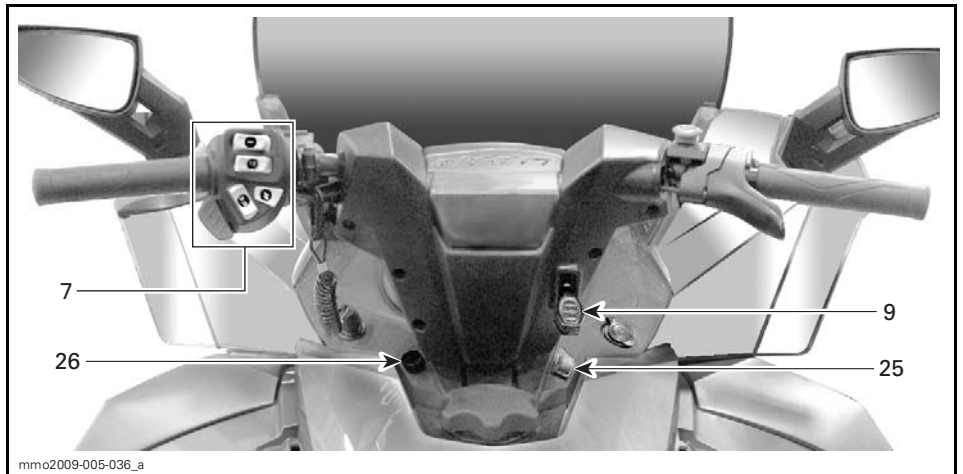
VEHICLE INFORMATION

CONTROLS/INSTRUMENTS/EQUIPMENT

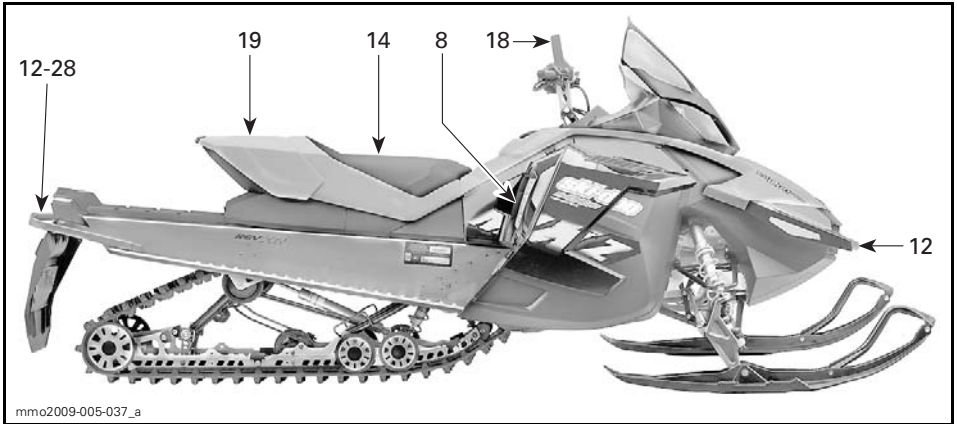
NOTE: Some controls/instruments/equipment do not apply or are optional on some models.



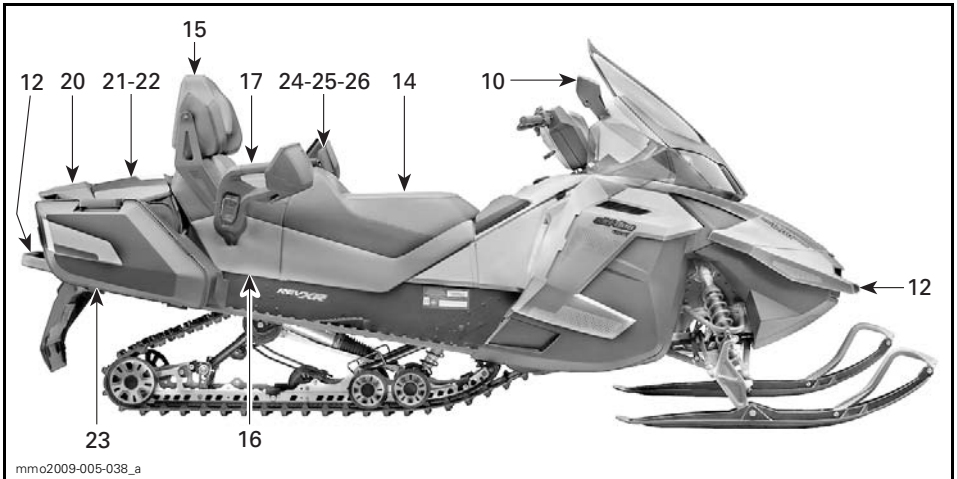
TYPICAL



TYPICAL



TYPICAL



1) Handlebar

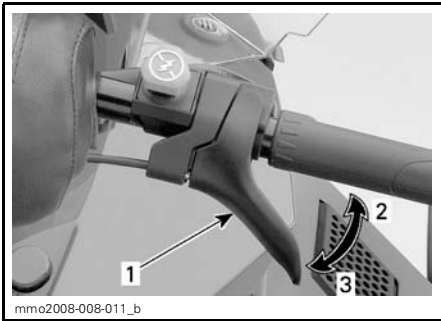
The handlebar controls the steering of the snowmobile. As the handlebar is rotated to right or left, the skis are turned right or left to steer the snowmobile.

⚠ WARNING

Fast reverse while turning, could result in loss of stability and control.

2) Throttle Lever

Designed to be thumb activated. When squeezed, it increases the engine speed and engages the transmission. When released, engine speed returns automatically to idle.



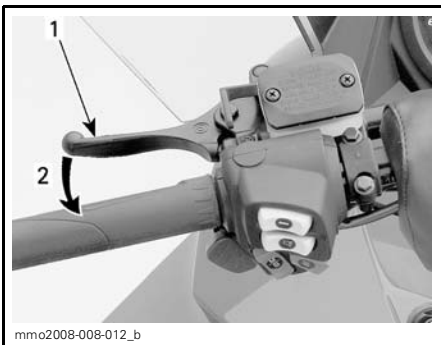
- TYPICAL**
1. Throttle lever
 2. To accelerate
 3. To decelerate

⚠ WARNING

Test the throttle lever operation each time before starting the engine. The lever must return to its original position once released. Otherwise, do not start engine.

3) Brake Lever

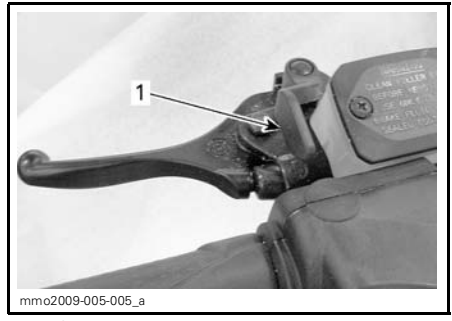
When squeezed, the brake is applied. When released, it automatically returns to its original position. Braking effect is proportional to the pressure applied on the lever and to the type of terrain and its snow coverage.



- TYPICAL**
1. Brake lever
 2. To apply brake

4) Parking Brake Lever

Parking brake should be used whenever snowmobile is parked.



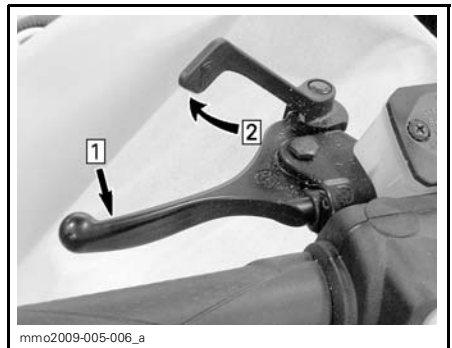
- TYPICAL**
1. Parking brake lever

⚠ WARNING

Make sure parking brake is fully disengaged before operating the snowmobile. When you ride the vehicle, brake pads 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.

To Engage Mechanism

Squeeze brake lever and maintain while engaging locking lever as shown.



- TYPICAL — ENGAGE MECHANISM**
- Step 1: Squeeze and maintain brake lever
 - Step 2: Engage locking lever

To Release Mechanism

Squeeze brake lever. Locking lever will automatically return to its original position. Always release parking brake before riding.

5) DESS Post

The DESS key must be securely snapped on its post to allow vehicle operation.

Pulling the DESS key off its post shuts the engine off.

! WARNING

Always attach the tether cord eyelet to clothing before starting the engine.

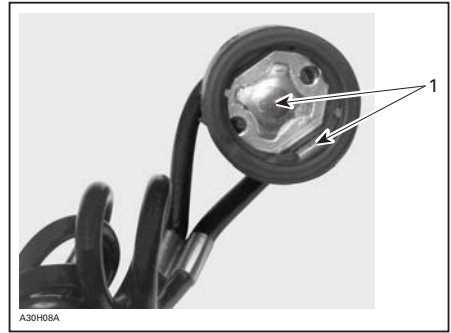
DESS (Digitally Encoded Security System)

The tether cord cap (DESS key) is digitally encoded to provide you and your snowmobile with the equivalent security of a conventional lock key and it shuts off the engine preventing snowmobile to runaway if the operator falls off the vehicle accidentally.

The DESS key provided with your snowmobile contains an electronic chip which features a unique permanently memorized digital code. Your authorized SKI-DOO dealer programs this key in the ECM (Engine Control Module) of your snowmobile to allow engine operation above 3000 RPM if and only if this unique code has been read after engine starting.

If another DESS key is installed, the engine will start but will not reach drive pulley engagement speed to move vehicle.

Make sure the DESS key is free of dirt or snow.



DESS KEY

1. Free of dirt or snow

Additional DESS Keys

The ECM of your snowmobile can be programmed by your authorized SKI-DOO dealer to accept 8 different keys.

We recommend the purchase of additional keys from your authorized SKI-DOO dealer. If you have more than one DESS-equipped SKI-DOO snowmobile, each can be programmed by your authorized SKI-DOO dealer to accept the other vehicles keys.

DESS Pilot Lamp Codes

NOTE: 2 short beeps should be heard if a programmed key is correctly snapped on post. Refer to *MONITORING SYSTEMS* for DESS malfunction codes information.

6) Engine Stop Switch

Push-pull type switch. To stop the engine in an emergency, select OFF position (down) and simultaneously apply the brake. To restart, button must be at the ON position (up).



OFF POSITION



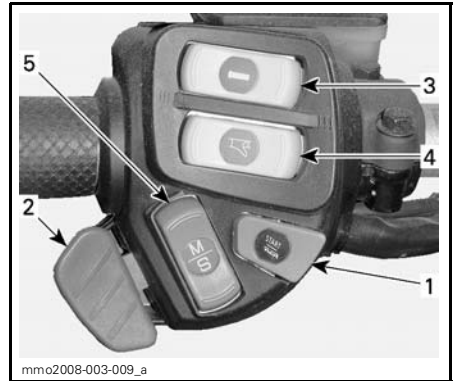
ON POSITION

All operators of the snowmobile should familiarize themselves with the function of the engine stop switch by using it several times on first outing and whenever stopping the engine thereafter. This engine stopping procedure will become a reflex and will prepare operators for emergency situations requiring its use.

⚠ WARNING

If the switch has been used in an emergency caused by a suspected malfunction, the source of the malfunction should be determined and corrected before restarting engine. See an authorized SKI-DOO dealer for servicing.

7) Multifunction Switch



TYPICAL

1. Start/Electronic Reverse button
2. Headlights dimmer switch
3. Heated grips
4. Heated throttle lever
5. Mode/set button

Start/Electronic Reverse Button

Press to start engine. Refer to *ENGINE STARTING PROCEDURE* in the *OPERATING INSTRUCTIONS* section.

GSX and GTX Models

Press to engage the electronic reverse. Refer to *OPERATING IN REVERSE* in *OPERATING INSTRUCTIONS* for details.

Headlights Dimmer Switch

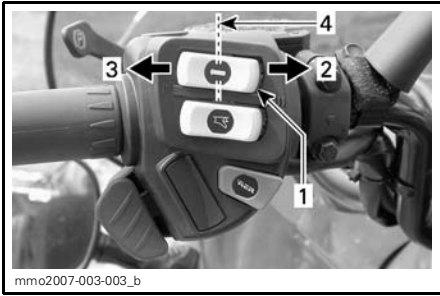
Press to select HI or LOW beam. Lights are automatically ON when the engine is running.

Heated Grips Switch

NOTE: On the 600 HO E-TEC model, the heated grips are enabled at 1900 engine RPM and up.

Select the switch position according to the desired heating intensity to keep your hands at a comfortable temperature.

Models with Analog/Digital Gauge

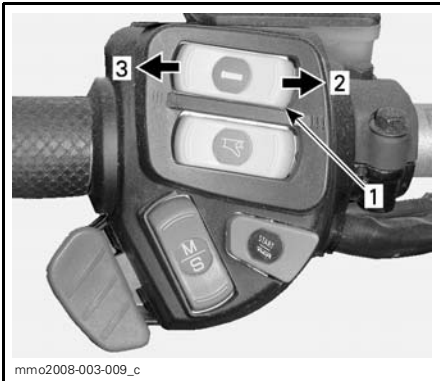


TYPICAL

1. Heated grip switch
2. Hot
3. Warm
4. Off

Models with Multifunction Analog/Digital Gauge

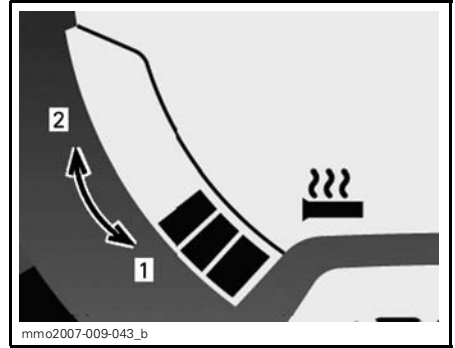
Depress switch as required to select heating intensity to keep your hands at a comfortable temperature.



VARIABLE INTENSITY

1. Heated grips switch
2. Increase heat
3. Decrease heat

The heating intensity is displayed via the multifunction display.



HEATING INTENSITY DISPLAY

1. Less heat
2. More heat

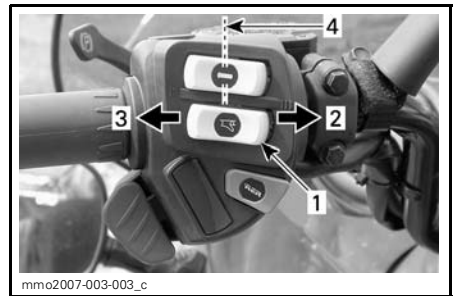
Heated grips will be in OFF position when there are no bars displayed on the gauge.

Heated Throttle Lever Switch

NOTE: On the 600 HO E-TEC model, heated throttle lever is enabled at 1900 engine RPM and up.

Select the switch position according to the desired heating intensity to keep your thumb at a comfortable temperature.

Models with Analog/Digital Gauge

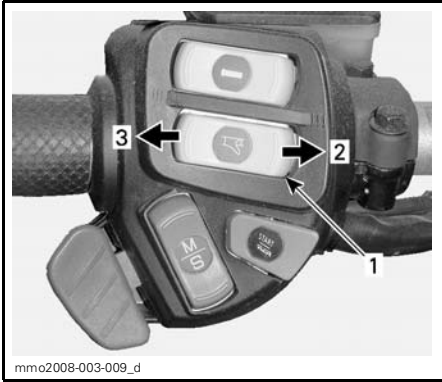


TYPICAL

1. Heated throttle lever switch
2. Hot
3. Warm
4. Off

Models with Multifunction Analog/Digital Gauge

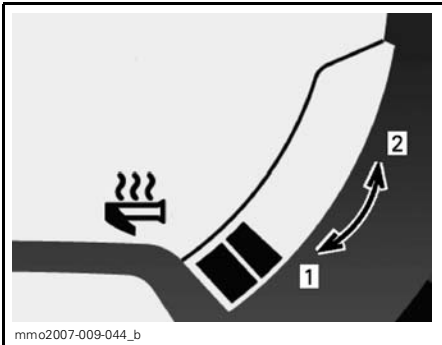
Depress switch as required to select heating intensity to keep your thumb at a comfortable temperature.



VARIABLE INTENSITY

1. Heated throttle lever switch
2. Increase heat
3. Decrease heat

NOTE: The heating intensity is displayed via the multifunction display with the activation of the throttle lever switch. When released, display will return to fuel tank level.



HEATING INTENSITY DISPLAY

1. Less heat
2. More heat

Heated throttle lever will be in OFF position when there are no bars displayed on the gauge.

Mode/Set Button

Models with Multifunction Analog/Digital Gauge

This button can be used instead of the two buttons on top of the analog/digital gauge to facilitate gauge adjustments.

- When pressed upward, it has the same functions as the MODE (M) button.
- When pressed downward, it has the same functions as the SET (S) button.



MULTIFUNCTION GAUGE

1. MODE function
2. SET function

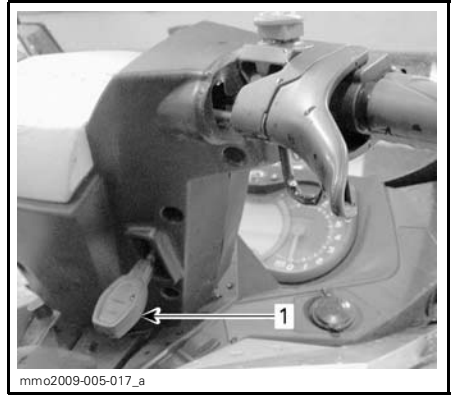
8) Reverse Shift Lever

MX Z Models

Use this lever to shift in forward or reverse.



1. Reverse shift lever



1. Tilt steering lock lever



PULL TO ENGAGE REVERSE GEAR

Refer to *OPERATING IN REVERSE* in *OPERATING INSTRUCTIONS* for details.

9) Tilt Steering

GTX SE Model

On the GTX SE model, the handlebar height is adjustable. To adjust, proceed as follows:

1. Pull up the lock lever.

2. Bring the handlebar to the desired position and release the lock lever.

NOTE: On the GTX LE model, the steering can be set to a desired fixed position, see your SKI-DOO authorized dealer.

10) Adjustable Mirrors

Each mirror can be adjusted to suit driver's preference by gently pressing in the corners of the mirror glass.

⚠ WARNING

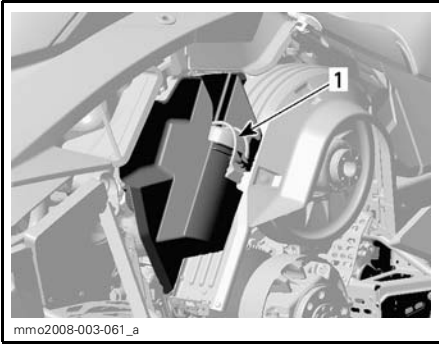
Adjust with vehicle at rest in a safe place.

11) Tool Kit

A tool kit containing tools for basic maintenance is supplied with the vehicle.

The tool box is located in engine compartment on pulley guard.

To remove the tool box from the pulley guard, unlock the tab from underneath the pulley guard and pull the tool box towards front to release it.



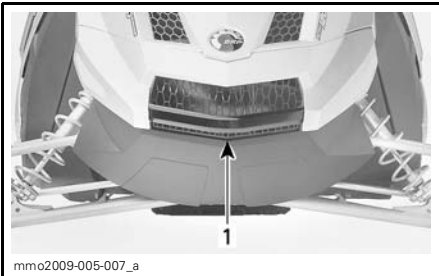
TYPICAL
1. Tool kit

12) Grab Handle/Bumper

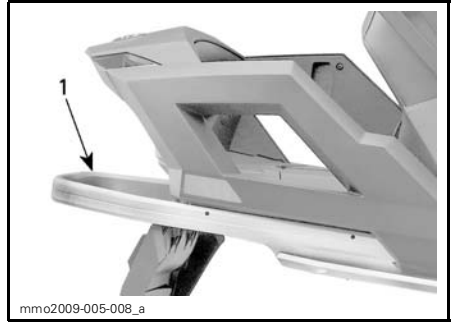
To be used whenever snowmobile requires manual lifting.

⚠ WARNING

Do not attempt to lift the vehicle by hand alone. Use appropriate lifting device or have assistance to share lifting stress in order to avoid risk of strain injuries.



FRONT
1. Grab handle/bumper



REAR
1. Grab handle/bumper

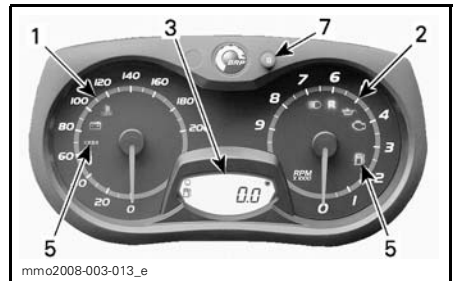
NOTICE Do not use skis to pull or lift snowmobile.

13) Gauge

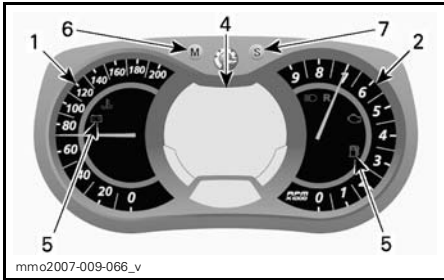
⚠ WARNING

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

Analog/Digital Gauge



Multifunction Analog/Digital Gauge



1. Speedometer
2. Tachometer
3. Digital display
4. Multifunction Digital Display
5. Pilot lamps
6. Mode button
7. Set button

NOTE: The gauge is factory preset in Imperial units but it is possible to change it to metric units, contact an authorized SKI-DOO dealer for unit settings.

Speedometer

Measures vehicle speed (in miles or kilometers depending on the setting).



LH PORTION OF GAUGE

Tachometer (RPM)

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



RH PORTION OF GAUGE





Pilot Lamps



TYPICAL — PILOT LAMPS





See table below for usual pilot lamps information.

600 HO E-TEC

PILOT LAMP(S) ON	BEEPER	MESSAGE DISPLAY (X AND LIMITED PACKAGE ONLY)	DESCRIPTION
	4 short beeps every 2 minutes	LOW OIL	Injection oil level is low. Stop vehicle in a safe place then, replenish injection oil reservoir.
	—	—	Low fuel level. One (1) bar left in fuel level display. Replenish fuel tank as soon as possible.
	Long beeps repeating slowly	REVERSE	Electronic reverse is selected.
	3 short beeps	REV. FAIL	Engine rotation did not change after reverse try, try again.
	—	—	High beam headlights are selected.
—	—	WARM UP	Engine and/or injection oil need to warm-up before normal operation. The engine's RPM is limited until desired temperature is reached (up to 10 minutes when driving).

Refer to *MONITORING SYSTEM* for details on malfunction pilot lamps.

1200 4-TEC

PILOT LAMP(S) ON	BEEPER	MESSAGE DISPLAY (X AND LIMITED PACKAGE ONLY)	DESCRIPTION
	4 short beeps every 2 minutes	OIL PRESSURE	Low engine oil pressure. Stop vehicle in a safe place then, check oil level. Fill to proper level. If oil level was correct, discontinue use and contact an authorized SKI-DOO dealer.
	—	—	Low fuel level. One (1) bar left in fuel level display. Replenish fuel tank as soon as possible.
	Long beeps repeating slowly	REVERSE	Electronic reverse is selected.
	3 short beeps	REV. FAIL	Engine rotation did not change after reverse try, try again.
	—	—	High beam headlights are selected.

Refer to *MONITORING SYSTEM* for details on malfunction pilot lamps.

MODE (M) Button

Multifunction Analog/Digital Gauge Only

Button use to navigate in gauge multifunction display.

NOTE: MODE (M) button on the multi-switch housing has the same functions and can also be used.

SET (S) Button

Button use to navigate, adjust or reset gauge multifunction display.

NOTE: SET (S) button on the multi-function switch has the same functions and can also be used.

Digital Display

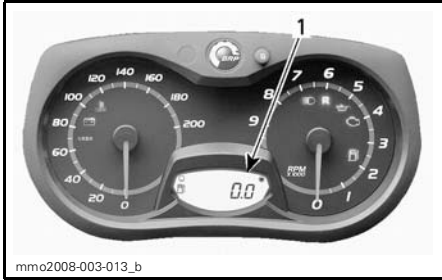
Analog/Digital Gauge Only

Digital display that supplies several real time useful information to the driver.

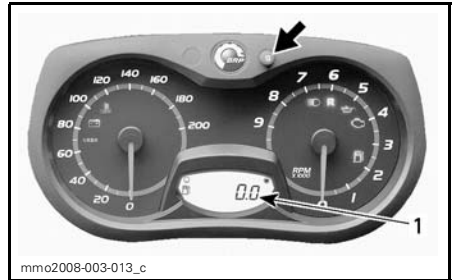
WARNING

Reading the gauge digital display can distract from the operation of the vehicle, particularly from constantly scanning the environment. This could lead to a collision resulting in severe injuries or death. Before reading the gauge digital display, ensure your environment is clear and free from obstacle, and bring the vehicle to a low speed. Before proceeding with any adjustments, park vehicle in a safe place and away from the trail.

The digital display is factory preset in Imperial units but it is possible to change it to metric units, contact an authorized SKI-DOO dealer for unit settings.



ANALOG/DIGITAL GAUGE
1. Digital display

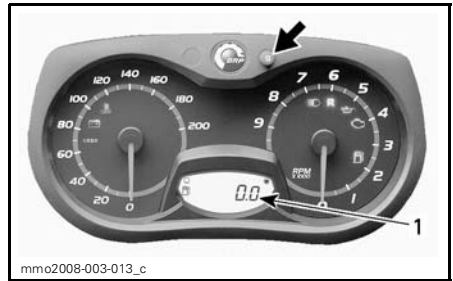


1. Odometer mode

B) Trip Meter "A" or "B"

Trip meters records distance travelled since it has been reset.

Press the SET (S) button to select trip meter (TRIP A/TRIP B) mode.



1. Trip meter (TRIP A/TRIP B) mode

DISPLAY FEATURES	
FUNCTIONS	REFER TO TOPICS
Odometer	A)
Trip meter "A" or "B"	B)
Trip hour meter	C)
Fuel level	D)

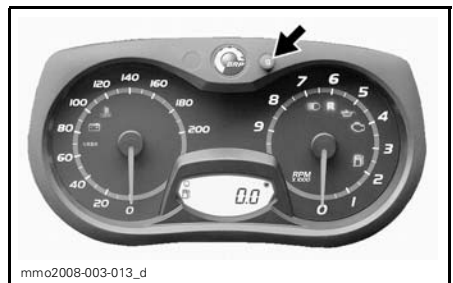
NOTE: The display is factory preset in Imperial units but it is possible to change it to Metric units, contact an authorized SKI-DOO dealer for unit settings.

A) Odometer

Records the total distance travelled.

Press the SET (S) button to select odometer mode.

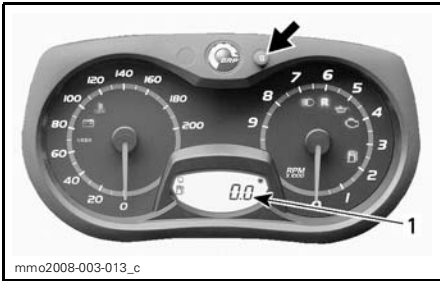
Press and hold the SET (S) button to reset.



C) Trip Hour Meter

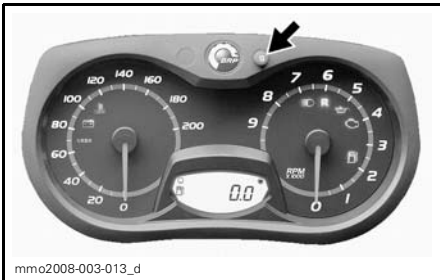
Records vehicle running time when the electrical system is activated since it has been reset.

Press the SET (S) button to select trip hour meter (HrTRIP) mode.



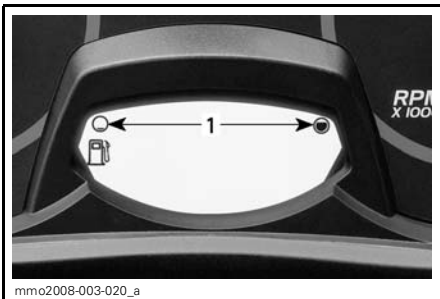
1. Trip hour meter (HrTRIP) mode

Press and hold the SET (S) button to re-set.



D) Fuel Level

Bar gauge that continuously indicates the amount of fuel left in the fuel tank.



FUEL LEVEL

1. Operating range

Multifunction Digital Display

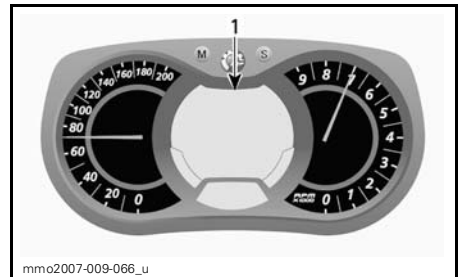
Multifunction Analog/Digital Gauge Only

Multifunction digital display that supplies several real time useful information to the driver either in English or French, contact an authorized SKI-DOO dealer for language settings.

⚠ WARNING

Reading the gauge digital display can distract from the operation of the vehicle, particularly from constantly scanning the environment. This could lead to a collision resulting in severe injuries or death. Before reading the gauge digital display, ensure your environment is clear and free from obstacle, and bring the vehicle to a low speed. Before proceeding with any adjustments, park vehicle in a safe place and away from the trail.

Also, the multifunction digital display is factory preset in Imperial units but it is possible to change it to Metric units, contact an authorized SKI-DOO dealer for unit settings.



MULTIFUNCTION ANALOG/DIGITAL GAUGE

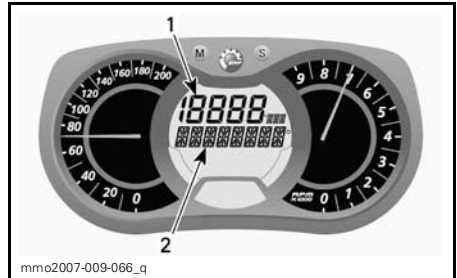
1. Multifunction display

DISPLAY FEATURES	
FUNCTIONS	REFER TO TOPICS
Speedometer	A)
Tachometer (RPM)	B)
Odometer	C)
Trip meter "A" or "B"	D)
Trip hour meter	E)
Clock	F)
Fuel level	G)
Altitude (600 HO E-TEC Model)	H)
Top speed	I)
Average speed	J)
Heated grips heating intensity	K)
Heated throttle lever heating intensity	L)
Instant fuel consumption	M)
Total fuel consumption	N)
Message display	O)
Air suspension	Refer to <i>TUNE YOUR RIDE</i> section

A) Speedometer

In addition of the analog type speedometer, vehicle speed can also be displayed via the multifunction display.

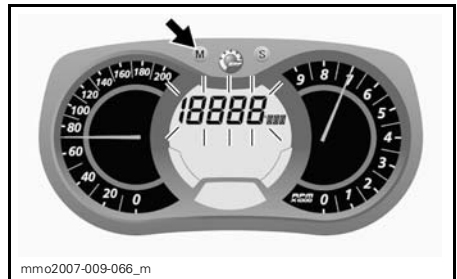
Vehicle speed can be displayed on display 1 or display 2.



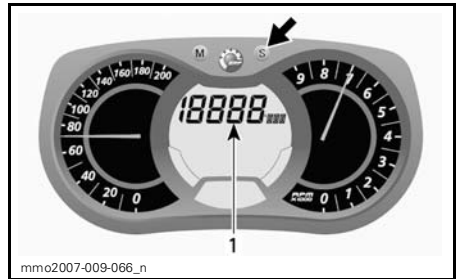
MULTIFUNCTION DISPLAY

1. Display 1
2. Display 2

Use MODE (M) button to select the desired display, then proceed as follows:

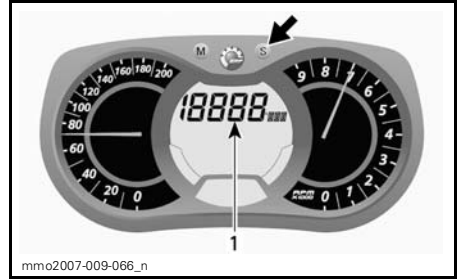


While display is flashing, press the SET (S) button to select speedometer mode.



1. Speedometer mode

Press the MODE (M) button to confirm selection or wait 5 seconds.



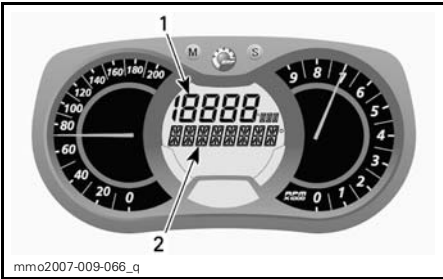
B) Tachometer (RPM)

In addition of the analog type tachometer, RPM can also be displayed via the multifunction display.

Engine RPM can be displayed on display 1 or display 2.

1. RPM mode

Press the MODE (M) button to confirm selection or wait 5 seconds.



MULTIFUNCTION DISPLAY

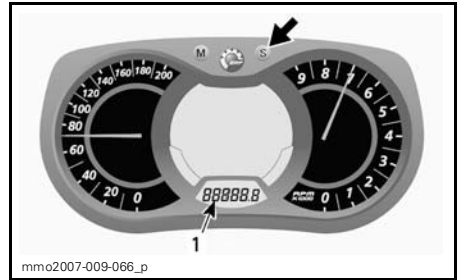
1. Display 1
2. Display 2

C) Odometer

Records the total distance travelled.

Press the SET (S) button to select odometer mode.

Use MODE (M) button to select the desired display, then proceed as follows:

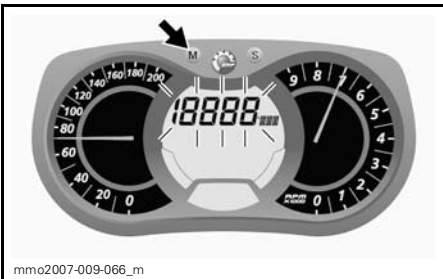


1. Odometer (km/mi) mode

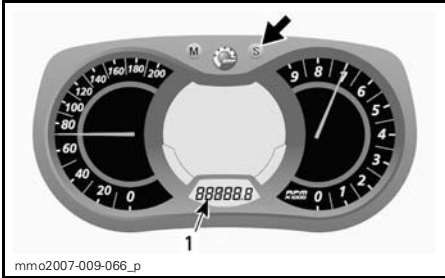
D) Trip Meter "A" or "B"

Trip meters records distance travelled since it has been reset.

Press the SET (S) button to select trip meter (TRIP A/TRIP B) mode.



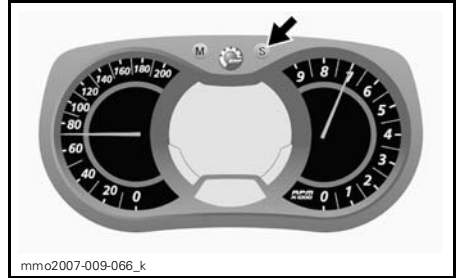
While display is flashing, press SET (S) button to select RPM mode.



1. Trip meter (TRIP A/TRIP B) mode

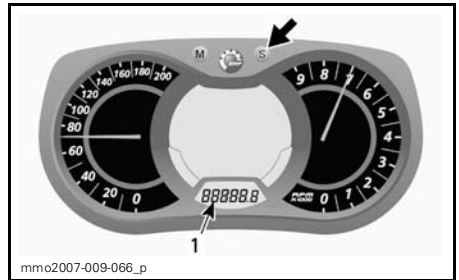
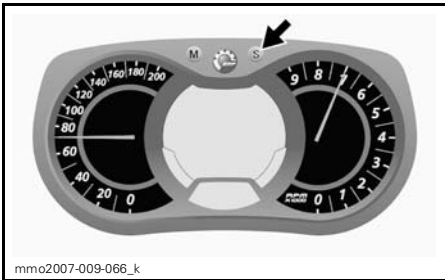
Press and hold the SET (S) button to re-set.

NOTE: On E-TEC models, resetting TRIP B mode will also reset TOTAL FUEL CONSUMPTION.



F) Clock

Press the SET (S) button to select clock mode.



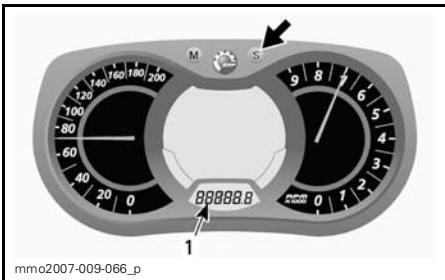
1. Clock mode

Press and hold the SET (S) button to activate clock set-up.

E) Trip Hour Meter

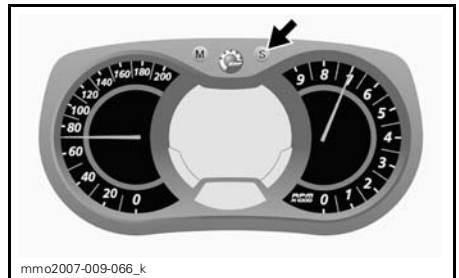
Records vehicle running time when the electrical system is activated since it has been reset.

Press the SET (S) button to select trip hour meter (HrTRIP) mode.



1. Trip hour meter (HrTRIP) mode

Press and hold the SET (S) button to re-set.



To change HOURS, while the value of HOURS is blinking, use the SET (S) button to change hours.

To change MINUTES, while the value of HOURS is blinking, press the MODE (M) button to switch to minutes. Use the SET (S) button to change minutes.

Press the MODE (M) button to save clock set-up and exit mode.

G) Fuel Level

Bar gauge that continuously indicates the amount of fuel left in the fuel tank.



FUEL LEVEL

1. Operating range

H) Altitude

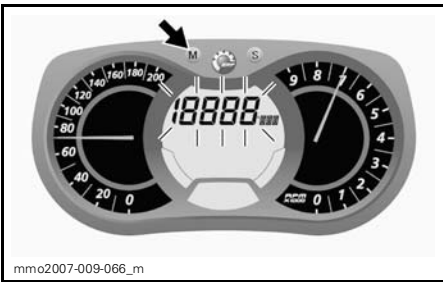
600 HO E-TEC Model Only

Displays vehicle **approximate** altitude above sea level calculated from the barometric pressure.

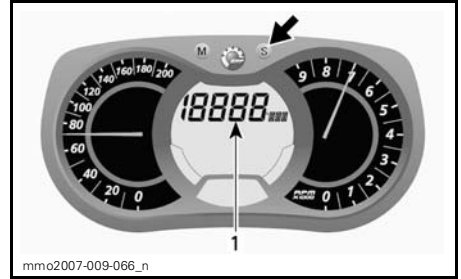
NOTE: Altitude displayed is rounded off every 100 meters or 200 feet.

To display vehicle altitude, proceed as follows:

Press the MODE (M) button to select display 1.



While display is flashing, press the SET (S) button to select altitude mode.



1. Altitude mode

The following symbol appears when altitude mode is selected.



ALTITUDE MODE

Press the MODE (M) button to confirm selection or wait 5 seconds.



I) Top Speed

Records vehicle top speed since it has been reset.

To display vehicle top speed, proceed as follows:

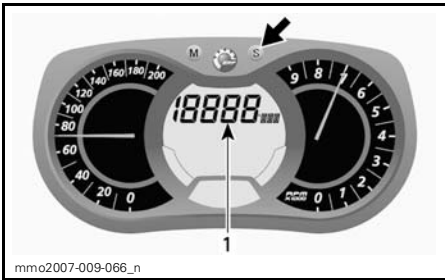
Press the MODE (M) button to select display 1.



While display flashes, press the SET (S) button to select top speed (TOP_SPD) mode.

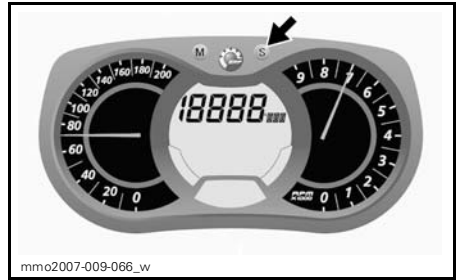


Press and hold the SET (S) button within 5 seconds to reset.



1. Top speed (TOP_SPD) mode

Press the MODE (M) button to confirm selection or wait 5 seconds.

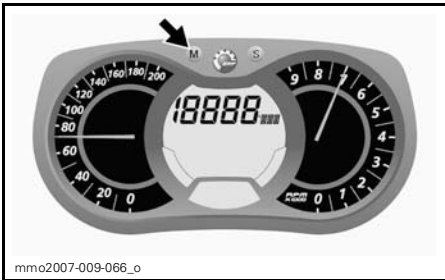


J) Average Speed

Records vehicle average speed since it has been reset.

To display vehicle average speed, proceed as follows:

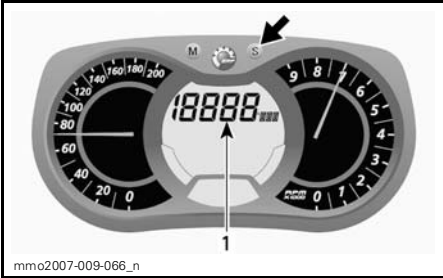
Press the MODE (M) button to select display 1.



To reset, press the MODE (M) to select mode.

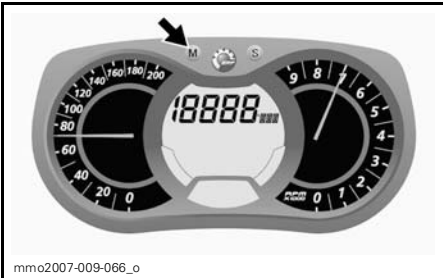


While display flashes, press SET (S) button to select vehicle average speed (AVR_SPD) mode.

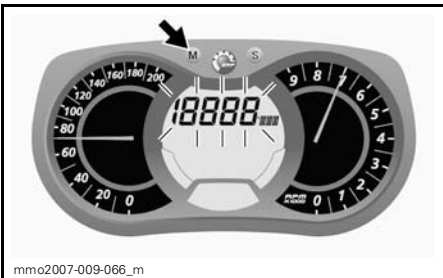


1. Vehicle average speed (AVR_SPD) mode

Press the MODE (M) button to confirm selection or wait 5 seconds.



To reset, press the MODE (M) to select mode.



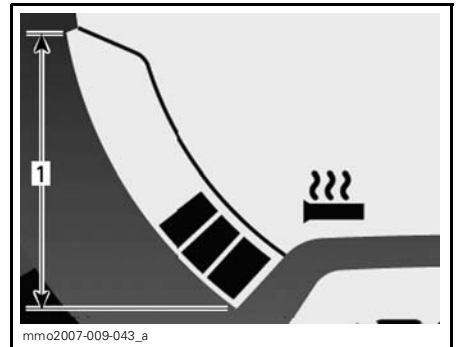
Press and hold the SET (S) button within 5 seconds to reset.



K) Heated Grips Heating Intensity

Bar gauge that indicates heating intensity.

Refer to *HEATED GRIPS SWITCH* for more details.



HEATED GRIPS

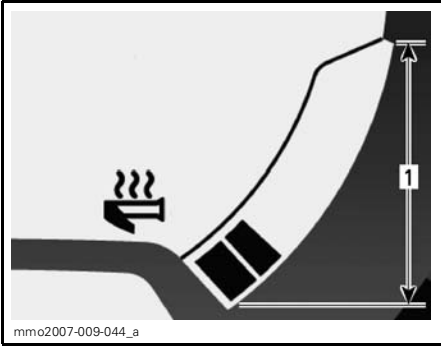
1. Operating range

L) Heated Throttle Lever Heating Intensity

Bar gauge that indicates heating intensity.

Bar gauge will be displayed instead of the fuel level with the activation of the heated throttle lever switch. When released, display will return to fuel level.

Refer to *HEATED THROTTLE LEVER SWITCH* for more details.



HEATED THROTTLE LEVEL

1. Operating range

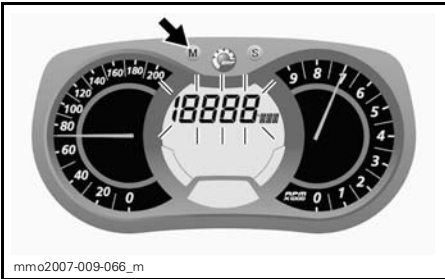
M) Instant Fuel Consumption

600 HO E-TEC Model Only

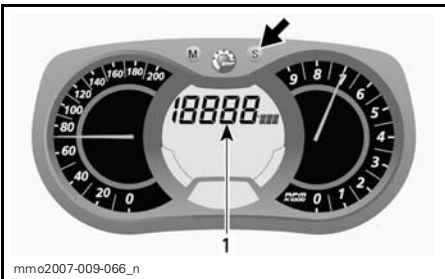
Calculates vehicle average fuel consumption while riding.

To display vehicle average fuel consumption, proceed as follows:

Press the MODE (M) button to select display 1.

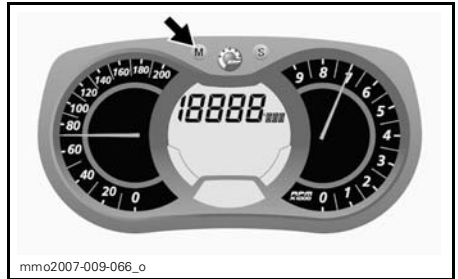


While display flashes, press SET (S) button to select instant fuel consumption mode.



1. Instant fuel consumption mode

Press the MODE (M) button to confirm selection or wait 5 seconds.



N) Total Fuel Consumption

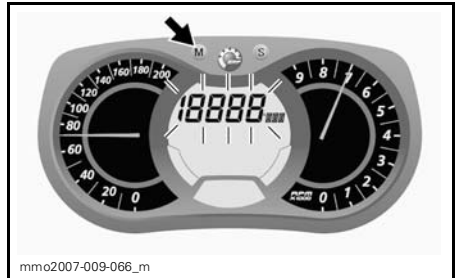
600 HO E-TEC Model Only

Records vehicle average fuel consumption since it has been reset.

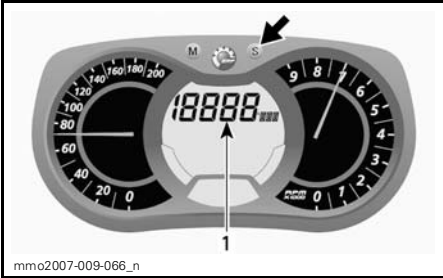
NOTE: The TRIP B odometer has to be selected to allow this function, refer to *TRIP METER "A" OR "B"* for more details.

To display vehicle total fuel consumption, proceed as follows:

Press the MODE (M) button to select display.

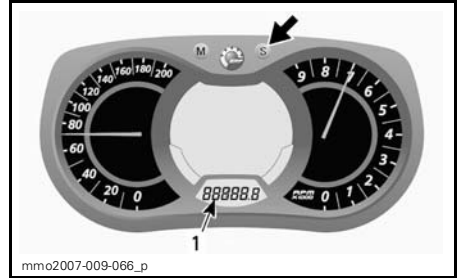


While display flashes, press the SET (S) button to select total fuel consumption (TC) mode.



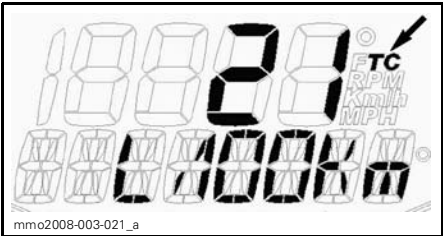
1. Total fuel consumption (TC) mode

TC appears when the mode is selected.



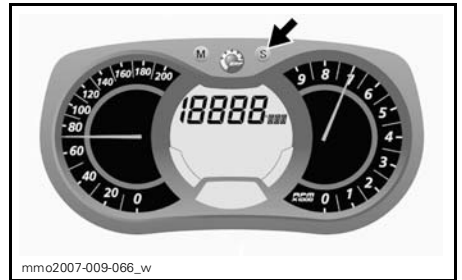
1. Trip meter (TRIP B) mode

Press and hold the SET (S) button to reset.

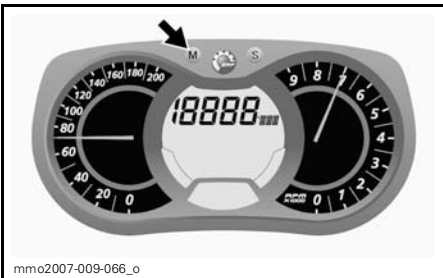


TYPICAL

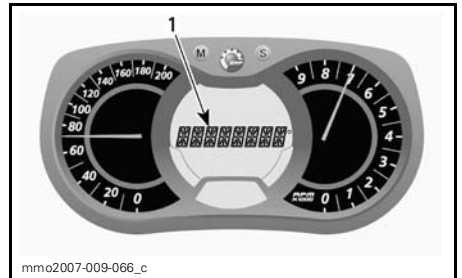
Press the MODE (M) button to confirm selection or wait 5 seconds.



O) Message Display



To reset, set the trip meter to TRIP B. Refer to *TRIP METER "A" OR "B"* for more details.



1. Message display

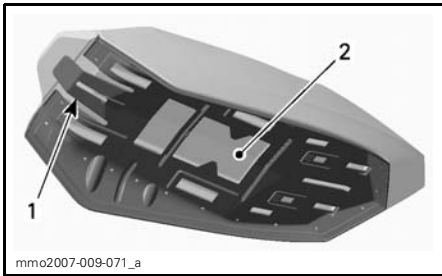
Refer to *PILOT LAMPS* in this section for details on usual messages.

Refer to *MONITORING SYSTEM* for details on malfunction and DESS related messages..

14) Driver's Seat

Seat can be removed to access to the Operator's Guide (located in seat base) or for maintenance purposes.

The seat latch is located at the front of the seat.



TYPICAL - SEAT BASE

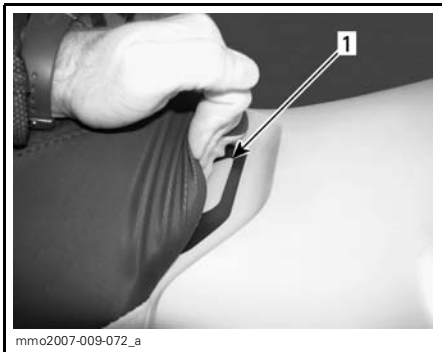
1. Seat latch
2. Operator's Guide location

Seat Removal

To remove the driver's seat, proceed as follows:

NOTE: On the GTX models, it is necessary to remove the passenger seat. Refer to *PASSENGER (1+1) SEAT*.

1. Gently pull the front portion of the seat cushion upwards and squeeze the seat latch.
2. Holding the seat latch, slide seat towards rear.

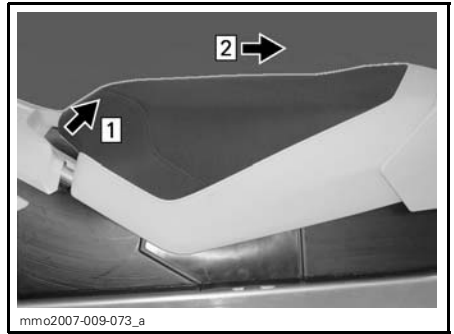


1. Seat latch

NOTE: On the GTX SE model, disconnect the electrical connector located underneath the seat.

NOTICE Do not stretch the electrical connector and wiring.

3. Remove seat.



TYPICAL

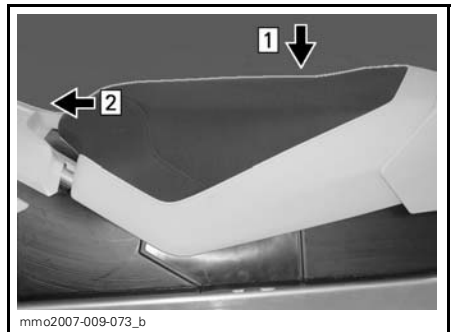
- Step 1: Pull and hold seat latch
Step 2: Slide seat

Seat Installation

NOTICE Riding the vehicle with any objects between the seat and the fuel tank could damage the fuel tank. NEVER place any objects between seat and fuel tank.

NOTE: On the GTX SE model, connect the electrical connector located underneath the seat.

1. Position seat in place.
2. Push seat forward until it latches in its position.



TYPICAL

- Step 1: Position seat in place
Step 2: Push seat forward until it latches

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



TYPICAL - SEAT INSTALLED

⚠ WARNING

Make sure seat is securely latched before riding.

15) Backrest

GTX Models

The back rest is adjustable and can be set for the passenger or the driver.

To adjust the backrest, proceed as follows:

1. Pull up and hold the lock lever.



1. Backrest lock lever

2. Set backrest to the desired position and release the lock lever.

⚠ CAUTION The backrest is spring loaded and will quickly move forward if not held while pulling up the lock lever.

16) Passenger (1+1) Seat

GTX Models

On the GTX models, a 1+1 passenger seat is provided as standard equipment.

⚠ WARNING

Any passenger must be able to firmly lay his feet on the footrests and keep his hands on the grab handles at all times when seated. Respecting those physical criteria is important to ensure that the passenger is stable and to reduce the risks of ejection.

Passenger Seat Removal

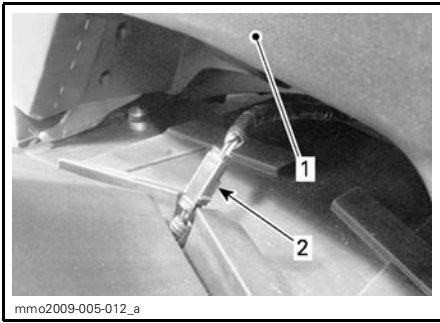
To remove the rear seat, proceed as follows:

1. Remove the tunnel bag if equipped.
2. Pull the latch strap located at rear of the passenger seat as shown.



3. Lift up the rear end of seat and gently pull back just enough to expose the accessories connector.

NOTICE Do not stretch the accessory connector and wiring.



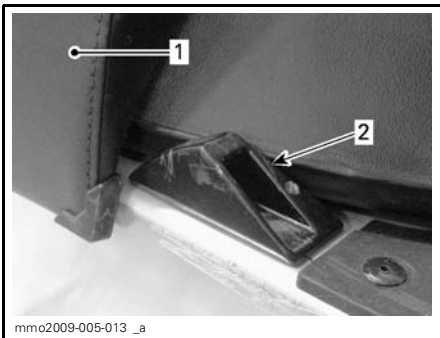
1. Rear seat
2. Accessories connector

4. Disconnect the accessories connector and remove seat.

Passenger Seat Installation

To install the passenger seat, proceed as follows:

1. Put the passenger seat behind the driver's seat. Let enough space between the seats to connect the accessories connector.
2. Slightly incline the passenger seat towards front and engage seat hooks in the tunnel slots located behind the driver's seat.



1. Driver's seat
2. Tunnel slot

3. Push the front portion of the passenger seat towards the driver's seat and firmly push the rear portion down to lock the passenger seat in position.

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

⚠ WARNING

Make sure seat is securely latched before riding.

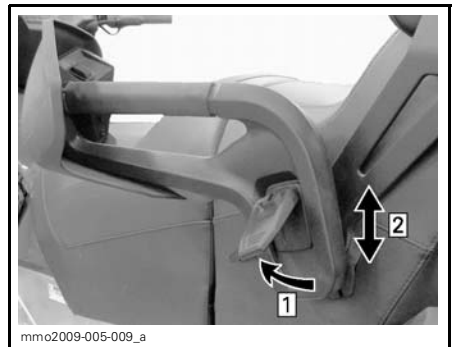
17) Passengers Handholds

GTX Models

Adjustable and heated handholds mounted at rear on GTX models.

To adjust the handhold height, proceed as follows:

1. Pull up the knob to release tension.
2. Raise or lower the handhold to suit passenger's comfort.



- Step 1: Pull knob
Step 2: Adjust height

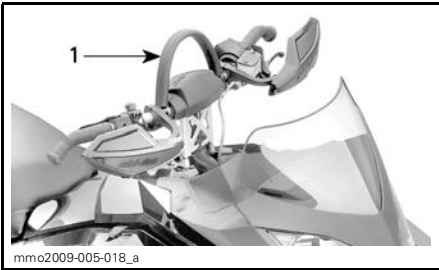
3. Press knob down to lock the handhold in position.

NOTE: The locking pressure applied on the handhold can be adjusted by screwing knob in or out when released.

18) Mountain Strap

Renegade Models

Mountain strap provides a grip for driver when side-hilling.



1. Mountain Strap

⚠ WARNING

This strap is not for towing, lifting or other purpose than temporary use as a grab handle during side-hilling. Always keep at least one hand on handlebar.

19) Storage Compartment

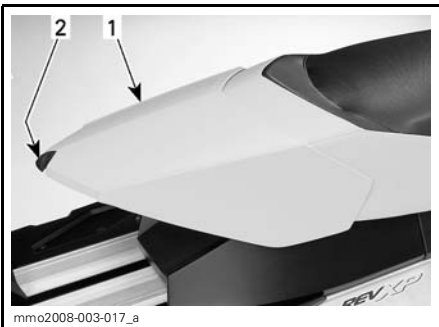
Renegade and GSX Models

⚠ WARNING

All storage compartments must be properly latched and they must not contain any sharp, heavy or breakable objects.

NOTICE MAXIMUM load is 1.8 kg (4 lb) evenly distributed.

Pull latch slightly upward then, backward to unlock cover.



TYPICAL
1. Storage compartment
2. Latch

20) Rear Rack

GTx Models

⚠ WARNING

All objects in rear rack must be properly latched. Do not carry any breakable objects. Excessive weight in rack may reduce steering ability.

⚠ WARNING

Always readjust suspension according to the load. The capacity of this rack is limited, the MAXIMUM cargo load is 15.8 Kg (35 lb). Ride at very low speed when loaded. Avoid speed over bumps.

21) Tunnel Bag (GSX Model)

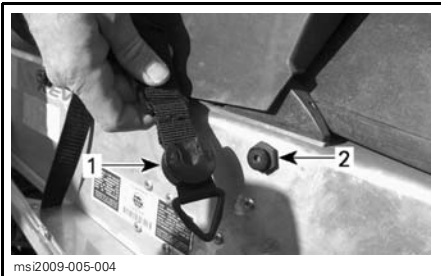
⚠ WARNING

The tunnel bag must be properly secured and must not contain any sharp, heavy or breakable objects.

NOTICE MAXIMUM load for this bag is 1.4 kg (3 lb) evenly distributed.

The tunnel bag is secured to the tunnel by straps and anchors. To install, hook the straps plastic ends to the anchors and adjust the straps.

To remove the tunnel bag, push the straps plastic ends down to unhook from anchors.



msi2009-005-004
 1. Strap
 2. Anchor

22) Tunnel Bag (GTX SE Model)

⚠ WARNING
 The tunnel bag must be properly secured and must not contain any sharp, heavy or breakable objects.

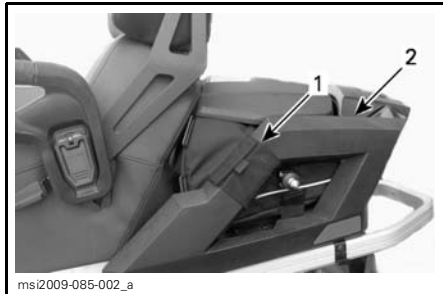
NOTICE MAXIMUM load for this bag is 2.27 kg (5 lb) evenly distributed.

The tunnel bag can be installed upright or flat on the tunnel and can also be converted into a back pack. The shoulder straps are stored in the pouch located at the bottom of the tunnel bag.

Flat Installation

The tunnel bag should be installed flat on the on the tunnel when carried alone on the rear rack.

To install, secure to the rack using the Velcro straps as shown.



msi2009-085-002_a
 1. Velcro strap
 2. Rear rack

The retaining Velcro straps can be hidden in side pouches. The side pouches flaps are hidden in the bottom lining of the tunnel bag.

Upright Installation

The tunnel bag can be installed upright when carrying other luggage on the rear rack. The upright installation leaves room underneath the tunnel bag.

To install, take the shoulder straps out of the pouch located at the bottom of the tunnel bag. Install shoulder straps tight around the backrest as shown.



msi2009-084-014_a
 1. Backrest
 2. Shoulder straps

23) Saddlebags

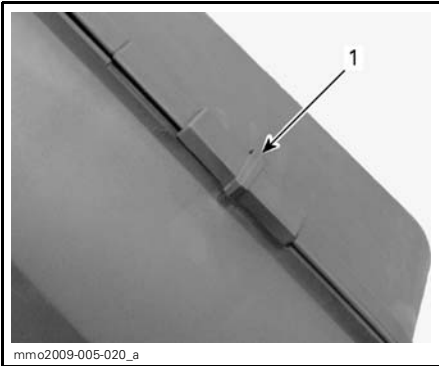
GSX SE Model

The GSX SE is equipped with two hard lockable saddlebags installed at rear.

Saddlebag Opening/Closing

To open the saddlebags, proceed as follows:

1. Unlock the handle with the provided key.
2. Pull handle approximately half the way up.
3. Open the slide locks then open lid.



TYPICAL

1. Slide lock

NOTE: It is not necessary to remove saddlebags from the vehicle to open them.

Saddlebag Removal

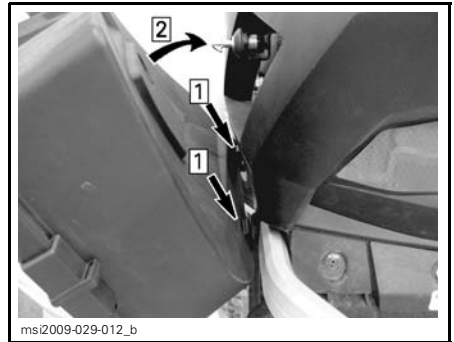
To remove a saddlebag, proceed as follows:

1. Unlock the handle with the provided key.
2. Pull handle all the way up and remove the saddlebag.

Saddlebag Installation

To install the saddlebags on the rear rack, proceed as follows:

1. Insert the metal tabs, located on the rear bumper, in the saddlebag slots.
2. Firmly push the top of the saddlebag towards the vehicle. A "snap" will be felt when the saddlebag is properly secured. Make sure the saddle bags are properly secured before getting underway.



- Step 1: Insert tabs
Step 2: Push towards vehicle

24) Passenger Heated Grip Switch

GTX Models

The switch is located on the LH passenger handhold.



1. Passenger heated grip switch

Adjust heating intensity as shown.



1. Off
2. Warm
3. Hot

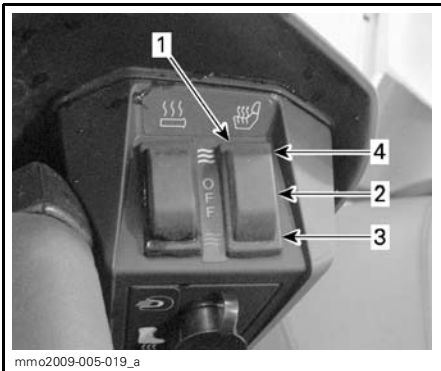
25) Heated Seats Switches

GTX SE Model

The GTX SE model is equipped with heated driver and passenger seats.

The front seat switch is located on the console to the right of the steering column.

The rear seat switch is located on the LH handhold.



REAR SEAT SWITCH SHOWN

1. Heated seat
2. OFF
3. Warm
4. Hot

26) Electric Visor Jack Connectors

GSX and GTX Models

An electric visor can be connected to the jack connector. Electric current is supplied whenever engine is running on the 1200 4-TEC models and from 1900 RPM on the E-TEC model. A stress relief extension is supplied with the vehicle.

On GTX models, a visor jack connector and a heating boots jack connector is installed at rear on the LH handhold.

27) 12-Volt Power Outlet

GTX and GSX Models

A 12-volt electric appliance may be connected to that jack connector. Electric current is supplied whenever engine is running on the 1200 4-TEC models and from 1900 RPM on the E-TEC model.

NOTICE The 12-volt power outlet is not designed to supply current of more than 1 ampere.

28) C-Type Hitch

Renegade X and GTX SE (European Models Only)

Use this hitch in conjunction with a tow bar to tow an accessory.

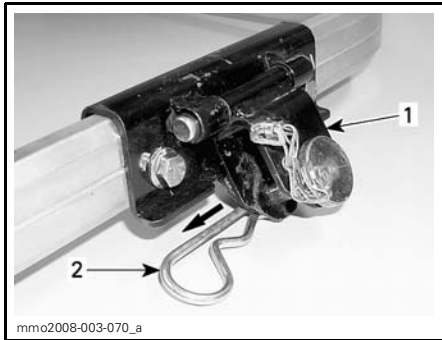
NOTE: Refer to decal on vehicle for towing weight capacities.

⚠ WARNING

Never tow an accessory with a rope. Always use a rigid tow bar. Using a rope would result in a collision between the object and the snowmobile and possibly in a tip over in case of a rapid deceleration or on a downward slope.

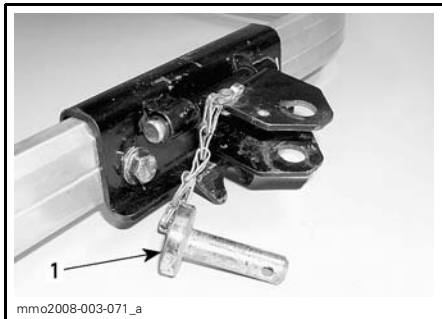
How to Use the C-Type Hitch

Detach hitch from its support by removing the hairpin.



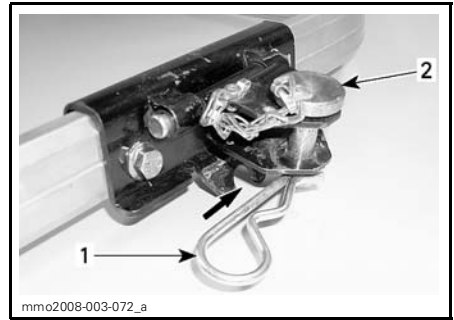
1. Hitch
2. Hairpin

Remove rod from hitch then attach rigid tow bar to hitch using the same rod.



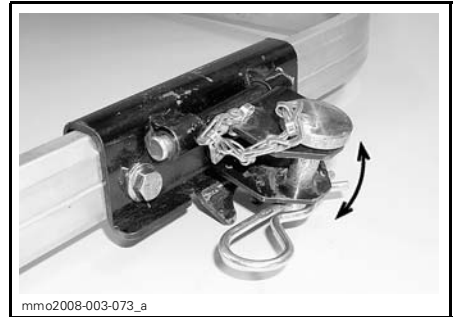
- TYPICAL**
1. Rod

Secure rod to hitch using hairpin previously removed.



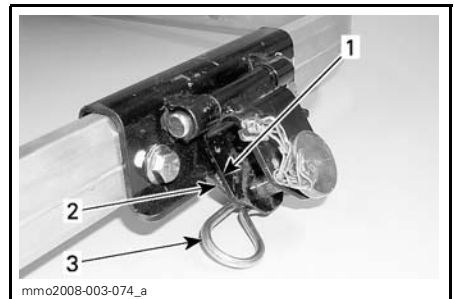
- TYPICAL**
1. Hairpin
 2. Rod

NOTICE To avoid damages to the vehicle, always release hitch from its support. Ensure hitch moves freely when towing accessories.



HITCH MOVES FREELY WHEN TOWING

To avoid noise from hitch when not in use, secure hitch to its support by using the hairpin.



- HITCH NOT IN USE**
1. Hitch
 2. Support
 3. Hairpin

FUEL AND OIL

Recommended Fuel

Use unleaded gasoline available from most service stations or oxygenated fuel containing a maximum total of 10% of ethanol or methanol or both. The gasoline used must have the following recommended minimum octane number.

MINIMUM OCTANE RATING INSIDE NORTH AMERICA		
ENGINES	87 (RON + MON)/2	91 (RON + MON)/2
600 HO E-TEC	--	X
1200 4-TEC	X	--

MINIMUM OCTANE RATING OUTSIDE NORTH AMERICA		
ENGINES	92 RON	95 RON
600 HO E-TEC	--	X
1200 4-TEC	X	--

NOTICE Never experiment with other fuels. The use of not recommended fuel can result in snowmobile performance deterioration and damage to critical parts in the fuel system and engine components. Do not mistake oil reservoir cap for fuel tank cap. Oil reservoir cap is identified OIL.

Fuel Antifreeze Additives

When using oxygenated fuel, additional gas line antifreeze or water absorbing additives are not required and should be not used.

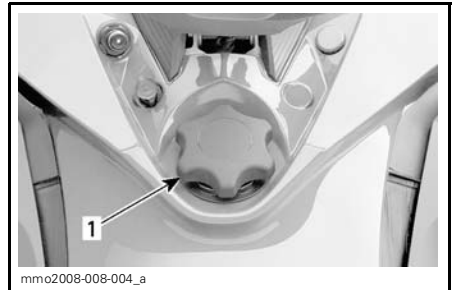
When using non-oxygenated fuel, we highly recommend the use of isopropyl base gas line antifreeze in a proportion of 150 ml (5 U.S. oz) of gas line antifreeze added to 40 liters (10-1/2 U.S. gal) of gas.

This precaution is in order to reduce the risk of frost buildup in carburetors or other fuel system components which may lead, in certain cases, to severe damage to engine.

NOTE: Use only methyl hydrate free gas line antifreeze.

Fueling Procedure

Unscrew to fill up tank then fully tighten.



TYPICAL
1. Fuel tank cap

⚠ WARNING

Always stop the engine before refueling. Fuel is flammable and explosive under certain conditions. Always work in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity. Open cap slowly. If a differential pressure condition is noticed (whistling sound heard when loosening fuel tank cap) have vehicle inspected and/or repaired before further operation. Do not overfill or top off the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and might overflow. Always wipe off any fuel spillage from the vehicle. Periodically verify fuel system.

NOTE: Do not sit or lean on seat when fuel tank cap is not properly installed.

Recommended Oil

600 HO E-TEC

NOTICE Do not mismatch oil reservoir cap with fuel tank cap. Oil reservoir cap is identified OIL.

ENGINE	RECOMMENDED INJECTION OIL
600 HO E-TEC	XP-S synthetic blend ⁽¹⁾

NOTICE ⁽¹⁾ These engines were specifically developed and tested with XP-S Synthetic Blend 2-stroke oil (P/N 293 600 101). The use of any other 2-stroke engine oils may cause severe engine damage and may void the limited warranty. Use only XP-S synthetic blend 2-stroke oil.

The XP-S synthetic blend provides superior lubrication, reduced engine component wear and oil deposit, thus maintaining maximum-level performance and antifriction properties. The synthetic blend injection oil meets the latest ASTM and JASO standards by ensuring high biodegradability and low exhaust smoke.

1200 4-TEC

Use SAE 0W40 synthetic-based 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.

NOTICE This is the only recommended viscosity to ensure proper cold start and optimum engine protection at high RPM and temperature.

ENGINE	RECOMMENDED ENGINE OIL
1200 4-TEC	XP-S 0W40 synthetic oil

OPERATING INSTRUCTIONS

Operation During Break-In Period

Engine

NOTICE A break-in period of 10 operating hours - 500 km (300 miles) - is required before running the snowmobile at full throttle.

During break-in period, maximum throttle should not exceed 1/2 opening. However, brief full acceleration and speed variations contribute to a good break-in.

NOTICE Engine overheating, continued wide open throttle runs and prolonged cruising without speed variations should be avoided.

Belt

A new drive belt requires a break-in period of 50 km (30 miles). Avoid strong acceleration/deceleration, pulling a load or high speed cruising.

10-Hour Inspection

We suggest that after the first 10 hours or 500 km (300 miles), of operation whichever comes first, your snowmobile be checked by an authorized SKI-DOO dealer. Refer to *MAINTENANCE INFORMATION* section.

Engine Starting Procedure

Procedure

1. Recheck throttle control lever operation.
2. Ensure that the tether cord cap (DESS key) is in position and that the cord is attached to your clothing eyelet.
3. Ensure that the engine stop switch is in the ON position.
4. Depress the START/RER button to engage the electric starter and start the engine. Release button immediately when engine has started.

WARNING

Never depress throttle while starting engine.

NOTICE Do not engage electric starter for more than 10 seconds at a time. A rest period of at least 30 seconds should be observed between the cranking cycles to allow electric starter to cool down.

Emergency Starting

1200 4-TEC

Do not attempt an emergency starting procedure. Have the battery charged or replaced.

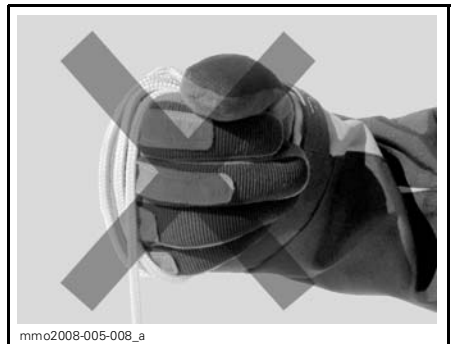
600 HO E-TEC Model

The engine can be started with the emergency starter rope supplied with the tool kit.

Remove belt guard.

WARNING

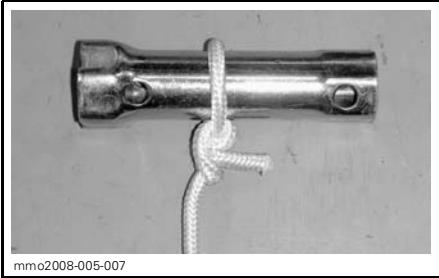
Do not wind starting rope around your hand. Hold rope by the handle only. Do not start the snowmobile by the drive pulley unless it is a true emergency situation. Have the snowmobile repaired as soon as possible.



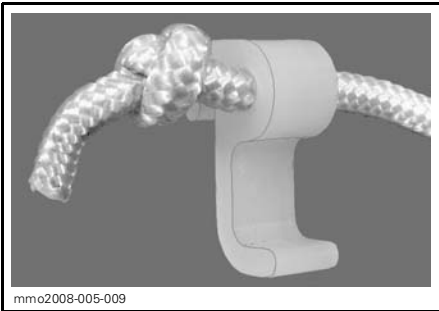
mimo2008-005-008_a

Attach one end of emergency rope to rewind handle.

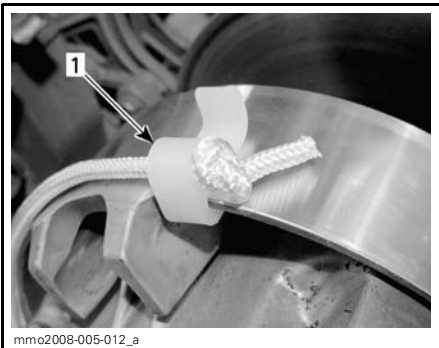
NOTE: The spark plug socket can be used as an emergency handle.



Attach the other end of emergency rope to the starter clip supplied in the tool kit.



Hook up clip on drive pulley.



1. *Clip installation location*

Wind the rope tightly around drive pulley. When pulled, pulley must rotate counterclockwise.



Pull the rope using a sharp, crisp pull so the rope comes free of the drive pulley. Start engine as per usual manual starting.

⚠ WARNING

When starting the snowmobile in an emergency situation, using drive pulley, do not reinstall the belt guard and return slowly to have snowmobile repaired.

Vehicle Warm-Up

Before every ride, vehicle has to be warmed up as follows:

Engage parking brake.

Snowmobile must be securely supported by the rear bumper using a wide-base snowmobile mechanical stand. Track must be 100 mm (4 in) off the ground.

Attach tether cord to operator's clothing eyelet.

Start engine and allow it to warm up two or three minutes at idle speed.

NOTE: It is not recommended to let engine running at idle speed for more than 10 minutes.

Disengage parking brake.

⚠ WARNING

Make sure wide-base snowmobile mechanical stand is stable. Never take place in front or behind the snowmobile. Do not use too much throttle during warm-up or when track is free-hanging.

Apply throttle until drive pulley engages. Let track rotate at low speed for several turns. The lower the vehicle temperature, the longer vehicle warm-up should be.

Shut-off the engine and remove the wide-base snowmobile mechanical stand.

Skis may be frozen on the ground. Grab both skis one at a time by their loops and lift their front end slightly off the ground.

After restarting engine, the vehicle can be driven at low speed for the first 2 or 3 minutes of riding. After that, it may be driven up to the legal speed limit as per normal safety practices.

Operating in Reverse**⚠ WARNING**

When shifting in reverse, wait until the reverse alarm sounds and the pilot lamp comes on in the analog/digital gauge before operating throttle. The reverse speed is not limited. Always proceed with caution as fast reverse could result in loss of vehicle stability. Come to complete stop before depressing engaging the reverse. Always remain seated and apply the brake before shifting. Ensure the path behind is clear of obstacles or bystanders before proceeding.

Reverse (1200 4-TEC Manual Shift)**Shifting in Reverse**

To engage reverse gear, proceed as follows:

1. Bring vehicle to a complete stop.
2. Apply and hold brake.
3. With engine at idle speed, pull the reverse shift lever all the way out.
4. Gently depress throttle lever.

Shifting in Forward

To engage forward gear, proceed as follows:

1. Bring vehicle to a complete stop.
2. Apply and hold brake.
3. With engine at idle speed, push the reverse shift lever all the way in.
4. Gently depress throttle lever.

Reverse (Electronic Reverse)**Shifting in Reverse/Shifting in Forward**

To engage reverse or forward, proceed as follows:

1. Bring vehicle to a complete stop.
2. Apply and hold brake.
3. With engine at idle speed, press the start/RER button and release.
4. Gently depress throttle lever.

Shutting Off the Engine

Release throttle lever and wait until engine has returned to idle speed.

Shut off the engine using either engine stop switch or pulling off the tether cord cap (DESS key).

⚠ WARNING

Always remove the tether cord cap (DESS key) from post when vehicle is not in operation in order to prevent accidental engine starting or to avoid unauthorized use by children or others or theft.

Towing an Accessory

Always use a rigid tow bar to tow an accessory. Any towed accessory should have reflectors on both sides and at the rear. Check local laws for brake light(s) requirements.

⚠ WARNING

Never tow an accessory with a rope. Always use a rigid tow bar. Using a rope would result in a collision between the object and the snowmobile and possibly in a tip over in case of a rapid deceleration or on a downward slope.

Towing Another Snowmobile

If a snowmobile is disabled and must be towed use a rigid tow bar. Remove the drive belt from disabled snowmobile, refer to *DRIVE BELT* in the *MAINTENANCE PROCEDURE* section and tow at moderate speed.

NOTICE Always remove the drive belt of the snowmobile that is to be towed to prevent damage to its belt and drive system.

In an emergency situation only, if a rigid tow bar is not available, a rope can be used provided you proceed with extra caution. In some areas, it may be illegal to do so. Check with state or local authorities.

Remove the drive belt, attach the rope to the ski legs (spindles), have someone sit on the towed snowmobile to activate the brake, and tow at low speed.

NOTICE In order to prevent damage to the steering system, never attach the tow rope to the ski loops (handles).

⚠ WARNING

Never ride at high speed when towing a disabled snowmobile. Proceed slowly with extra caution.

Post-Operation Care

Install rear of vehicle on a wide-base snowmobile mechanical stand.

Remove snow and ice from rear suspension, track, front suspension, steering mechanism and skis.

Always cover your snowmobile when leaving it outside overnight or during extended periods of inactivity. This will protect it from frost and snow as well as help retain its appearance.

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.

Snowmobile handling and comfort depend upon suspension adjustments.

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

NOTE: Some adjustments may not apply to your snowmobile. Use special keys in tool kit.

⚠ WARNING

Before proceeding with any suspension adjustment, remember:

- Park in a safe place.
- Remove the tether cord cap (DESS key).
- Lift the front of vehicle off the ground with a suitable lifting device before adjusting suspension.
- Lift rear of vehicle off the ground with a wide-base snowmobile stand with a rear deflector panel.
- Make sure lifting device is stable and secure.

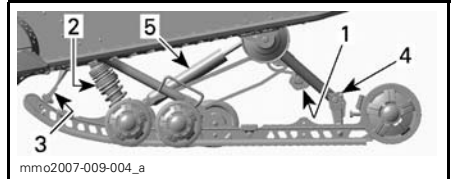
⚠ WARNING

Do not attempt to lift the vehicle by hand alone. Use appropriate lifting device to avoid risk of strain injuries.

NOTE: Some models may come from factory equipped with Take/Apart (T/A) shocks. These can be rebuilt or re-calibrated. See an authorized SKI-DOO dealer.

Rear Suspension Adjustment

REAR SUSPENSION TYPE	
MODELS	TYPE
All models	SC-5



SC-5 REAR SUSPENSION

1. Rear springs adjustable cams for comfort and ride height
2. Center spring for steering behavior
3. Stopper strap for snowmobile weight transfer
4. Coupling blocks — handling
5. Rear shock motion ratio — damping strength (not adjustable on all models)

Following are guidelines to fine-tune suspension.

The best way to set up the suspension, is to start from factory settings, then customize each adjustment one at a time. It may be necessary to readjust center spring after adjusting front springs for instance. Test run the snowmobile under the same conditions; trail, speed, snow, driver riding position, etc. Change one adjustment and retest. Proceed methodically until you are satisfied.

NOTICE Whenever adjusting rear suspension, check track tension and adjust as necessary.

Slight suspension bottoming occurring under the worst riding conditions indicates a good choice of spring preload.

Air Suspension

GTX SE Model

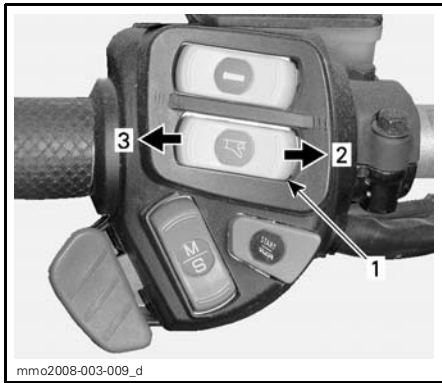
The operator can adjust the comfort and ride height by adjusting the air pressure inside the air shock absorber.

To adjust, proceed as follows:

1. Start engine.
2. Press the MODE (M) button to select suspension mode.

When the air suspension mode is selected, "AIR_SUSP" is displayed. The display also shows the actual suspension setting (a number from 1 to 5, 1 being the softest setting).

3. Depress the heated throttle lever switch as shown to increase or decrease air pressure.



VARIABLE INTENSITY

1. Heated throttle lever switch
2. Increase pressure
3. Decrease pressure

4. The desired set point appears on the display. To confirm, press the MODE (M) button or wait 5 seconds.

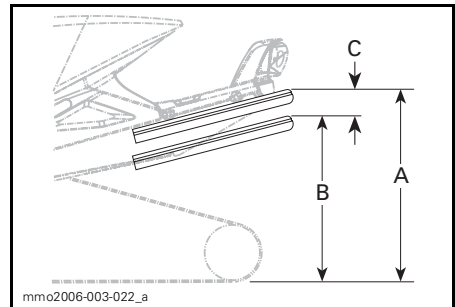


1. Set point
2. Actual setting

Rear Springs Preload (Comfort)

IMPORTANT: Make sure that all objects to be transported are in place in storage compartment and rear rack.

- Grab rear bumper and lift until suspension is fully extended.
- From this point, rear of snowmobile should collapse by 50 to 75 mm (2 to 3 in) when driver and passenger (if so applicable) take place. Measure at rear bumper as shown in next illustration.



TYPICAL — PROPER ADJUSTMENT

- A. Suspension fully extended
- B. Suspension has collapse with driver, passenger(s) and load added
- C. Distance between dimension "A" and "B", must not exceed 50 to 75 mm (2 to 3 in), see table

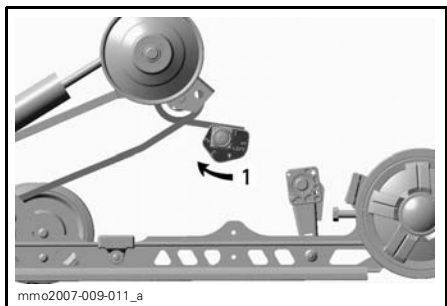
Reference Table

"C"	WHAT TO DO
50 to 75 mm (2 to 3 in)	No adjustment required
More than 75 mm (3 in)	Adjusted too soft, Increase preload (see preload adjustment)
Less than 50 mm (2 in)	Adjusted too hard, Decrease preload (see preload adjustment)

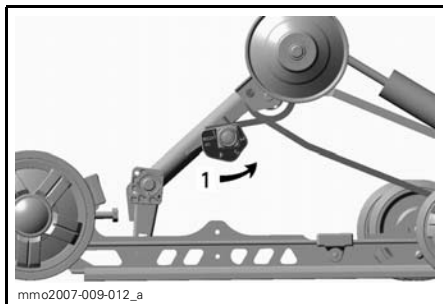
Preload Adjustment

CAM POSITIONS	SPRING PRELOAD
1	Minimum
2	Minimum/Intermediate
3	Intermediate
4	Intermediate/Maximum
5	Maximum

NOTICE To adjust spring preload, always turn the left side adjustment cam in a clockwise direction, and the right side cam in a counterclockwise direction.



TYPICAL — SC-5 — LH SIDE
1. Adjust spring preload



TYPICAL — SC-5 — RH SIDE
1. Adjust spring preload

Center Spring Preload (Steering Behavior)

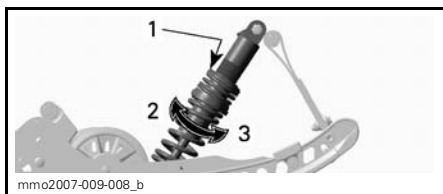
Ride at moderate speed on a trail.

If handlebar seems too easy or too hard to turn, adjust center spring accordingly.

Reference Table

STEERING BEHAVIOR	WHAT TO DO
Easy to turn (neutral)	No adjustment required
Harder to turn (oversteering)	Adjusted too soft, increase preload
Very easy to turn (understeering)	Adjusted too hard, decrease preload

Preload Adjustment



- TYPICAL**
1. Turn spring preload adjuster to increase or decrease preload
 2. Turn clockwise to increase spring preload
 3. Turn counterclockwise to decrease spring preload

Stopper Strap Length (Weight Transfer)

Ride at low speed then fully accelerate. Note steering behavior.

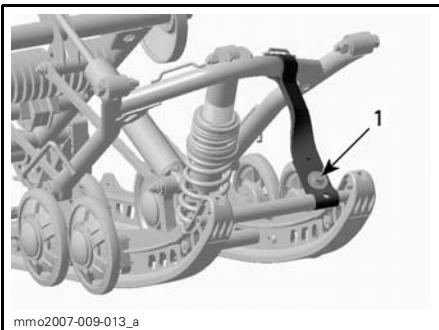
Adjust stopper strap length accordingly.

NOTICE Whenever stopper strap length is changed, track tension must be readjusted.

Reference Table

WEIGHT TRANSFER (SKI PRESSURE)	WHAT TO DO
Comfortable: good weight transfer (light pressure)	No adjustment required
Light: too much weight transfer (lift off the ground)	Strap too long, reduce strap length
Heavy: not enough weight transfer (heavy pressure)	Strap too short, increase strap length

Stopper Strap Adjustment



TYPICAL — SC-5

1. Increase or decrease strap length by bolting to a different hole

NOTE: Decreasing the stopper strap length may reduce comfort. If too much weight transfer is felt, try to correct it by adjusting the coupling blocks first.

Deep Snow Riding

When operating the snowmobile in deep snow, it may be necessary to vary stopper strap length and/or riding position, to change the angle at which the track rides on the snow. Operator's familiarity with the various adjustments as well as snow conditions will dictate the most efficient combination.

Coupling Blocks (Handling)

Coupling blocks will have an effect on vehicle handling while accelerating.

A minimum coupling adjustment while accelerating will generate **less** pressure on the skis.

At the opposite, a maximum coupling adjustment will generate **more** pressure on the skis.

Perform moderate acceleration from a stand point or while riding and check for desired handling.

If handling requires adjustment, turn both left and right blocks by 90° to the desired position.

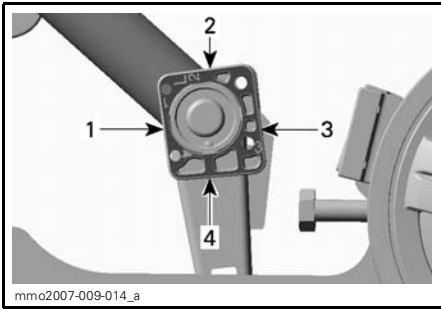
NOTE: There are four possible adjustment positions. Side of block with the desired adjustment number must be facing the rubber stopper.

⚠ WARNING

Both blocks must be set at the same position. Otherwise vehicle behavior may be unpredictable and suspension may become warped.

Use tool provided in tool bag to adjust coupling blocks.

NOTE: When in driving position, the coupling blocks should not touch the rubber stoppers.



COUPLING BLOCK - LEFT SIDE VIEW
 ("L" - LEFT EMBOSSED ON BLOCK)

1. Position 1 (minimum)
2. Position 2 (minimum/intermediate)
3. Position 3 (intermediate/maximum)
4. Position 4 (maximum)

Rear Shock Compression Damping

HPG Clicker and Racing Clicker Only

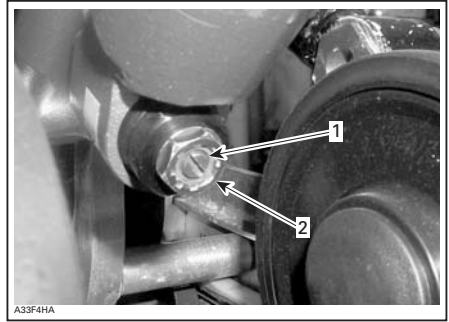
Rear shock on the above mentioned models feature 2 adjustments.

Low Speed Compression Damping

The low speed adjuster modifies the compression damping force for small suspension velocities. This adjuster has 5 turns of adjustment. Use a flat screwdriver to adjust it. Turning it clockwise increases shock damping action (stiffer) for these low compression speeds.

High Speed Compression Damping

The high speed adjuster modifies the compression damping force for high suspension velocities. Use a 17 mm wrench to adjust it. Turning it clockwise increases shock damping action (stiffer) for these high compression speeds.



TYPICAL

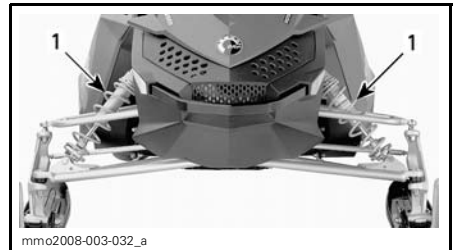
1. Low speed compression adjuster (flat screwdriver)
2. High speed compression adjuster (17 mm wrench)

Front Suspension Adjustments

Front Springs Preload (Handling)

Ride at moderate speed and check for proper handling.

Adjust front springs accordingly.



TYPICAL - FRONT SUSPENSION

1. Front springs for handling

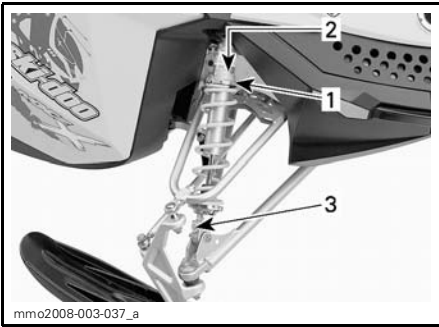
⚠ WARNING

Always adjust both front springs to same position.

Reference Table

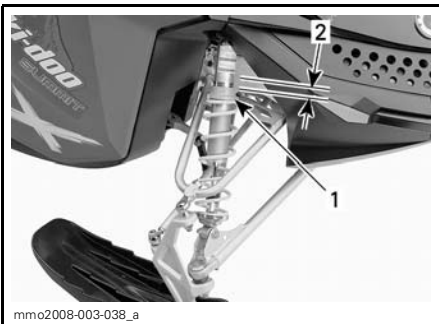
HANDLING	WHAT TO DO
Good: steering comfortable to turn	No adjustment required
Bad: steering too easy to turn	Adjusted too soft, increase spring preload
Bad: steering too hard to turn	Adjusted too hard, decrease spring preload

Preload Adjustment



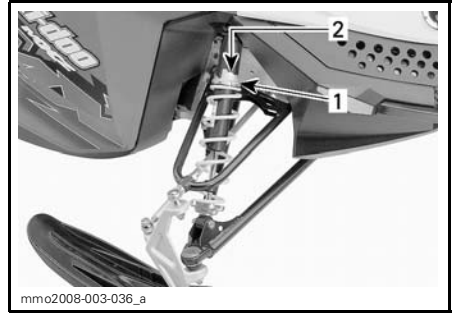
TYPICAL - CAM TYPE PRELOAD WITH DAMPING ACTION ADJUSTMENT

1. Adjustment cam
2. Cam positions
3. Compression/rebound adjustment



TYPICAL - RING TYPE PRELOAD

1. Adjustment ring
2. Ring positions



TYPICAL - CAM TYPE PRELOAD

1. Adjustment cam
2. Cam positions

NOTICE Make sure that both front springs are still pre loaded when front of vehicle is off the ground.

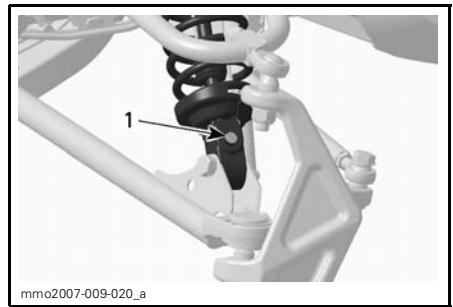
Front Shock Damping

HPG Clicker and Racing Clicker Only

Compression/Rebound Damping

Front shock on the above mentioned models feature a compression/rebound adjustment.

Turn the damping adjuster accordingly. Turning it clockwise increases shock damping action (stiffer).



TYPICAL

1. Damping adjuster

Vehicle Behavior Related to Suspension Adjustment

PROBLEM	CORRECTIVE MEASURES
Front suspension wandering	Check ski alignment and camber angle adjustment. See an authorized SKI-DOO dealer. Reduce ski ground pressure. <ul style="list-style-type: none"> – Reduce front suspension spring preload. – Increase center spring preload. – Reduce rear spring preload.
Snowmobile seems unstable and seems to pivot around its center	Reduce rear suspension front arm pressure. <ul style="list-style-type: none"> – Reduce center spring preload. – Increase rear spring preload. – Increase front suspension spring preload.
Steering feels too heavy	Reduce ski ground pressure. <ul style="list-style-type: none"> – Reduce front suspension spring preload. – Increase center spring preload.
Rear of snowmobile seems too stiff	Reduce rear spring preload.
Rear of snowmobile seems too soft	Increase rear spring preload.
Rear suspension front shock absorber is frequently bottoming	Lengthen stopper strap. Increase center spring preload.
Track spins too much at start	Lengthen stopper strap. Adjust coupling blocks towards "position 1".

VEHICLE TRANSPORTATION

Make sure that oil reservoir and fuel tank caps are properly installed.

Tilt bed trailers can easily be equipped with a winch mechanism to afford maximum safety in loading. Simple as it may seem, never drive your snowmobile onto a tilt bed trailer or any other kind of trailer or vehicle. Many serious accidents have resulted from driving up and over a trailer. Anchor your vehicle securely, front and rear, even on short hauls. Be certain all equipment is securely fastened. Cover your snowmobile when trailering to prevent road grime from causing damage.

Be certain your trailer meets state or provincial requirements. Ensure the hitch and safety chains are secure and the brake, turn indicators and clearance lights all function.

MAINTENANCE INFORMATION

MAINTENANCE SCHEDULE

Maintenance is very important for keeping your vehicle in safe operating condition. Proper maintenance is the owner's responsibility. Perform periodic checks and follow the maintenance schedule.

WARNING

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

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 SKI-DOO dealer.

Other important items in the maintenance schedule that are more difficult and require special tools are best performed by your authorized SKI-DOO dealer.

WARNING

Turn off the engine, remove tether cord cap 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 (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/assembly, always replace with a new one.

600 HO E-TEC

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE *: TO BE PERFORMED BY AN AUTHORIZED SKI-DOO DEALER	*10-HOUR OR 500 KM (300 mi)							LEGEND
	WEEKLY OR EVERY 250 KM (150 mi)							
	MONTHLY OR EVERY 800 KM (500 mi)							
	EVERY YEAR OR 3200 KM (2000 mi)							
	EVERY 2 YEARS OR 6000 KM (3700 mi)							
	*STORAGE							
*PRESEASON								
PART/TASK								
ENGINE								
Engine motor mounts	I			I		I		(1) Retighten to specified torque. (2) Check coolant level before each ride. (3) Have coolant density checked at storage. Have coolant changed every 5 years. (4) RAVE valves must be cleaned by an authorized SKI-DOO dealer.
Exhaust system	I			I		I		
Exhaust manifold nuts ⁽¹⁾	I						I	
Engine lubrication						L		
Cooling system	I						I	
Coolant ^{(2) (3)}	I			I				
Crankshaft PTO seal							I	
RAVE valves ⁽⁴⁾				C				
RAVE valves solenoid				I				
Injection oil filter						R		
Engine stopper				A				
ENGINE MANAGEMENT SYSTEM								
EMS fault codes	I					I		—
FUEL SYSTEM								
Fuel stabilizer						(5)		(5) Add to fuel prior to engine lubrication. (6) Fuel filter must be replaced by an authorized SKI-DOO dealer. (7) Check condition before each ride.
Fuel filter ⁽⁶⁾						R		
Fuel lines, fuel rail and connections	I						I	
Throttle body							C	
Throttle cable	I			I			I	
Air silencer prefilter ⁽⁷⁾							I	
Fuel injection system (visual inspection)				I			I	

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE *: TO BE PERFORMED BY AN AUTHORIZED SKI-DOO DEALER	*10-HOUR OR 500 KM (300 mi)								
	WEEKLY OR EVERY 250 KM (150 mi)								
	MONTHLY OR EVERY 800 KM (500 mi)								
	EVERY YEAR OR 3200 KM (2000 mi)								
	EVERY 2 YEARS OR 6000 KM (3700 mi)								
PART/TASK	*STORAGE								
	*PRESEASON								
LEGEND									
DRIVE SYSTEM									
Drive belt ⁽⁸⁾	I	I						I	(8) Adjust drive belt height and have the tension checked by an authorized SKI-DOO dealer at every belt replacement. (9) Tightening torque of drive pulley must be checked at the 10-hour inspection and every year or 3200 km (2000 mi) thereafter. (10) Driven pulley preload should be checked at the 10-hour inspection and every year or 3200 km (2000 mi) thereafter. (11) Check track condition before each ride. (12) Adjust track tension and alignment as required.
Drive pulley ⁽⁹⁾	I		I	C			I	C	
Driven pulley ⁽¹⁰⁾	I		I	C			I	C	
Brake fluid	I	I				R		I	
Brake hose, pads and disk	I	I						I	
Drive chain	A		A				A		
Chaincase oil							R		
Track ⁽¹¹⁾	A	(12)							
STEERING									
Steering mechanism ⁽¹³⁾	I		I, L				I, L		(13) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).
Skis and runners	I	I					I		
SUSPENSION									
Front suspension ⁽¹³⁾	I		I, L				I, L		(13) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).
Rear suspension ⁽¹³⁾	I		I, L				I, L		
Rear suspension stopper strap				I			I		

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE *: TO BE PERFORMED BY AN AUTHORIZED SKI-DOO DEALER	*10-HOUR OR 500 KM (300 mi)						
	WEEKLY OR EVERY 250 KM (150 mi)						
	MONTHLY OR EVERY 800 KM (500 mi)						
	EVERY YEAR OR 3200 KM (2000 mi)						
	EVERY 2 YEARS OR 6000 KM (3700 mi)						
	*STORAGE						
*PRESEASON							
PART/TASK							LEGEND

ELECTRICAL SYSTEM

Spark plugs	(14)						(14) Spark plugs must be inspected or replaced every 3 years or 10 000 km (6200 mi) by an authorized SKI-DOO dealer.
Battery	I		I		I	I	
Wiring harnesses and cables	I		I		I		
Lighting system (HI/LO beam, brake light, etc.)	I	I			I		
Engine stop switch and tether cord cap (DESS)	I	I			I		

CHASSIS/BODY

Headlights beam aiming				A		A	—
Engine compartment	C		C		C		
Vehicle cleaning and protection	C		C		C		

1200 4-TEC

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE *: TO BE PERFORMED BY AN AUTHORIZED SKI-DOO DEALER	*10-HOUR OR 500 KM (300 mi)										LEGEND
	WEEKLY OR EVERY 250 KM (150 mi)										
	MONTHLY OR EVERY 800 KM (500 mi)										
	EVERY YEAR OR 3200 KM (2000 mi)										
	EVERY 2 YEARS OR 6000 KM (3700 mi)										
	*STORAGE										
*PRESEASON											
PART/TASK											
ENGINE											
Engine motor mounts	I				I				I		(1) Retighten to specified torque. (2) Check coolant level before each ride. (3) Have coolant density checked at storage. Have coolant changed every 5 years. (4) Check oil level before every ride. (5) Have oil and filter changed every 5000 km (3000 mi), 80 hours or at storage whichever comes first. (6) Have valve lash inspected/adjusted every 20 000 km (12 500 mi).
Engine seals										I	
Exhaust system										I	
Exhaust manifold nuts ⁽¹⁾	I									I	
Cooling system	I									I	
Coolant ^{(2) (3)}	I				I						
Engine oil ⁽⁴⁾ and filter	R	(5)									
Valves adjustment ⁽⁶⁾											
ENGINE MANAGEMENT SYSTEM											
EMS fault codes	I								I		—
FUEL SYSTEM											
Fuel stabilizer									(7)		(7) Add to fuel at storage. (8) Wipe throttle body bore and throttle plate with a clean rag. (9) Check condition before each ride.
Fuel filter						R					
Fuel lines, fuel rail and connections	I									I	
Throttle body										I, C (8)	
Throttle cable	I									I	
Air silencer prefilter ⁽⁹⁾										I	
Fuel injection system (visual inspection)					I					I	

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE *: TO BE PERFORMED BY AN AUTHORIZED SKI-DOO DEALER	*10-HOUR OR 500 KM (300 mi)										LEGEND
	WEEKLY OR EVERY 250 KM (150 mi)										
	MONTHLY OR EVERY 800 KM (500 mi)										
	EVERY YEAR OR 3200 KM (2000 mi)										
	EVERY 2 YEARS OR 6000 KM (3700 mi)										
PART/TASK	*STORAGE										
	*PRESEASON										
DRIVE SYSTEM											
Drive belt ⁽¹⁰⁾	I	I								I	<p>(10) Adjust drive belt height and have the tension checked by an authorized SKI-DOO dealer at every belt replacement.</p> <p>(11) Tightening torque of drive pulley must be checked at the 10-hour inspection and every year or 3200 km (2000 mi) thereafter.</p> <p>(12) Driven pulley preload should be checked at the 10-hour inspection and every year or 3200 km (2000 mi) thereafter.</p> <p>(13) Check track condition before each ride.</p> <p>(14) Adjust track tension and alignment as required.</p>
Drive pulley ⁽¹¹⁾	I		I	C				I	C		
Driven pulley ⁽¹²⁾	I		I	C				I	C		
Brake fluid	I	I						R		I	
Brake hose, pads and disk	I	I								I	
Drive chain	A		A					A			
Chaincase oil								R			
Track ⁽¹³⁾	A ⁽¹⁴⁾										
STEERING											
Steering mechanism ⁽¹⁵⁾	I		I, L					I, L			<p>(15) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).</p>
Skis and runners	I	I						I			
SUSPENSION											
Front suspension ⁽¹⁵⁾	I		I, L					I, L			<p>(15) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).</p>
Rear suspension ⁽¹⁵⁾	I		I, L					I, L			
Rear suspension stopper strap				I				I			

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE *: TO BE PERFORMED BY AN AUTHORIZED SKI-DOO DEALER	*10-HOUR OR 500 KM (300 mi)								
	WEEKLY OR EVERY 250 KM (150 mi)								
	MONTHLY OR EVERY 800 KM (500 mi)								
	EVERY YEAR OR 3200 KM (2000 mi)								
	EVERY 2 YEARS OR 6000 KM (3700 mi)								
	*STORAGE								
*PRESEASON									
PART/TASK									
LEGEND									
ELECTRICAL SYSTEM									
Spark plugs	(16)								(16) Spark plugs must be inspected or replaced every 3 years or 10 000 km (6200 mi) by an authorized SKI-DOO dealer.
Battery	I		I			I	I		
Wiring harnesses and cables	I		I			I			
Lighting system (HI/LO beam, brake light, etc.)	I	I				I			
Engine stop switch and tether cord cap (DESS)	I	I				I			
CHASSIS/BODY									
Headlights beam aiming				A			A	—	
Engine compartment	C		C			C			
Vehicle cleaning and protection	C		C			C			

10-HOUR INSPECTION

We suggest that after the first 10 hours or 500 km (300 mi) of operation, whichever comes first, your vehicle be inspected by an authorized SKI-DOO dealer. The initial maintenance is very important and must not be neglected.

NOTE: The 10-hour inspection is at the expense of the vehicle owner.

We recommend that this inspection be signed by an authorized SKI-DOO dealer.

Date of 10-hour inspection

Authorized dealer signature

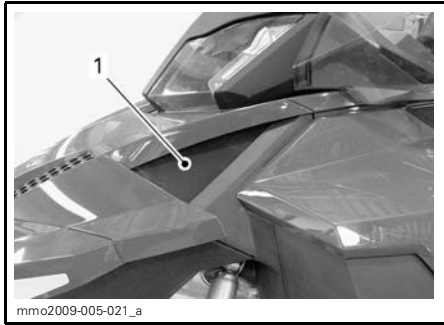
Dealer name

MAINTENANCE PROCEDURES

Air Intake Silencer Prefilter

Air Intake Silencer Prefilter Verification

Ensure that air intake silencer prefilter is properly installed, clean and in good condition.



1. Intake silencer prefilter

If the prefilter is to be cleaned or replaced, see an authorized SKI-DOO dealer.

Engine Coolant

CAUTION Never open radiator cap when engine is hot.

Engine Coolant level

600 HO E-TEC

The engine coolant tank is located under the hood. See *BODY* for removal procedure.

1200 4-TEC

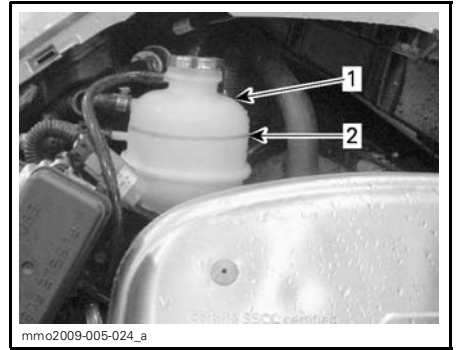
The engine coolant tank is located behind the RH side panel. See *BODY* for opening procedure.

All Models

Check coolant level at room temperature. Liquid should be at cold level line (engine cold) of coolant tank.

NOTE: When checking level at low temperature it may be slightly lower than the mark.

If additional coolant is necessary or if entire system has to be refilled, refer to an authorized SKI-DOO dealer.



1200 4-TEC MODEL SHOWN

1. Coolant tank
2. COLD LEVEL line

Recommended Engine Coolant

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

Cooling system must be filled with BRP premixed coolant (P/N 219 700 362) or with distilled water and antifreeze solution (50% distilled water, 50% antifreeze).

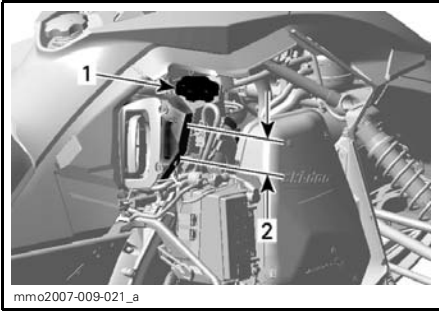
Injection Oil Level

600 HO E-TEC

Always maintain a sufficient amount of recommended injection oil in the injection oil reservoir.

Unscrew injection oil reservoir cap to fill up reservoir then fully tighten.

NOTICE Check level and refill every time you refuel.



TYPICAL

1. Injection oil reservoir
2. Level marks (1/4, 1/2, 3/4)

⚠ WARNING

Do not overfill. Reinstall cap and fully tighten. Wipe off any oil spills. Oil is highly flammable when heated.

Engine Oil Level

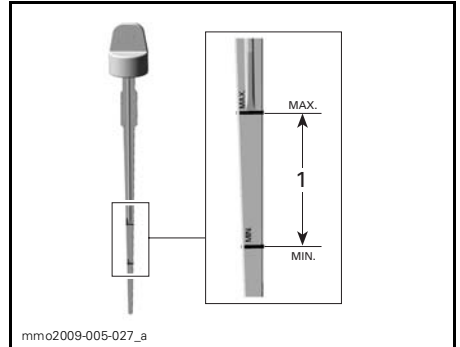
1200 4-TEC

NOTICE Check level before each ride and refill if necessary. Do not overfill. Operating the engine with an improper level may severely damage engine. Wipe off any spillage.

With the engine at normal operating temperature, place vehicle on a level surface and proceed as follows to check oil level:

1. Let engine run at idle for approximately 30 seconds.
2. Stop engine.
3. Open the LH side panel, refer to *BODY*.
4. Remove the drive belt guard, refer to *DRIVE BELT GUARD*.
5. Remove dipstick from the filler tube, then wipe it clean.

6. Completely insert dipstick in the filler tube.
7. Remove dipstick and check the oil level. Oil level should be between the MIN and MAX marks as shown, add if necessary.



1. Oil level between MIN. and MAX.

⚠ WARNING

Wipe off any oil spills. Oil is highly flammable when heated.

Exhaust System

Exhaust System Verification

The tail pipe of the muffler should be centered with the exit hole in the bottom pan. Exhaust system must be free of rust or leaks. Make sure that all parts are securely in place.

Check retaining springs condition and replace if necessary.

The exhaust system is designed to reduce noise and to improve the total performance of the engine. Modification may be in violation of local laws.

NOTICE If any exhaust system component is removed, modified or damaged, severe engine damage may result.

Spark Plugs

Spark plugs inspection or replacement must be done by an authorized SKI-DOO dealer.

⚠ WARNING

To avoid fire hazard, never attempt to check spark efficiency at spark plugs or spark plug wires and never remove spark plugs on a E-TEC engine.

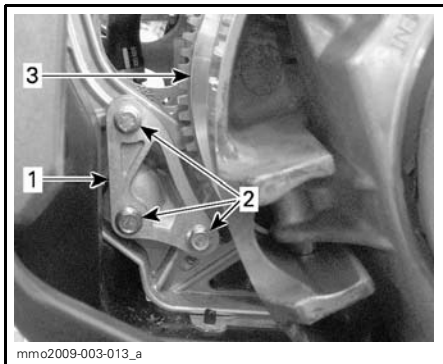
Engine Stopper

600 HO E-TEC Model

Engine Stopper Adjustment

The engine stopper is located on the LH front engine support, in front of the drive pulley.

1. Remove DESS key from post.
2. Remove the LH side panel, refer to *BODY*.
3. Remove drive belt guard, refer to *DRIVE BELT GUARD REMOVAL* in this section.
4. Loosen the three bolts retaining the engine stopper to the engine support without removing them.



1. Engine stopper
2. Engine stopper screws
3. Drive pulley

5. Apply a downward pressure on the engine stopper with your fingers while tightening the screws just enough to obtain contact between the screw heads and the surface of the stopper.
6. Torque screws to 10 N•m (89 lbf•in).

NOTICE Serious pulley damage can occur if the engine stopper and its screws are not properly installed.

Brake Fluid

Recommended Fluid

Use only DOT 4 brake fluid from a sealed container. An opened container may be contaminated or may have absorbed moisture from the air.

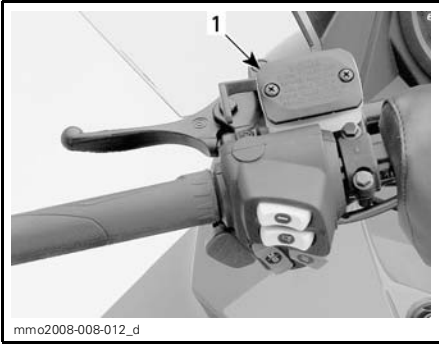
⚠ CAUTION To avoid serious damage to the braking system, do not use fluids other than the recommended one, nor mix different fluids for topping up.

Brake Fluid Level

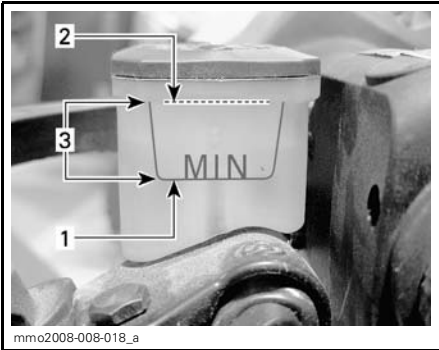
NOTICE Vehicle must be on a level surface before checking any fluid levels.

Check brake fluid (DOT 4) in reservoir for proper level. Add fluid (DOT 4) as required.

NOTICE Use only DOT 4 brake fluid from a sealed container. Never use any other types of fluid.



1. Brake fluid reservoir



1. Minimum
2. Maximum
3. Operating range

Chaincase Oil

Recommended Chaincase Oil

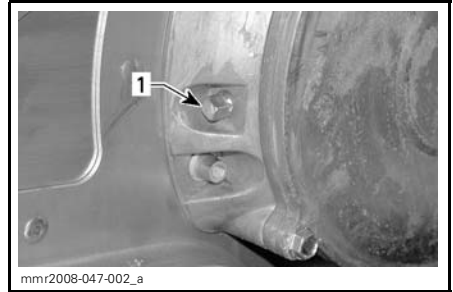
Use XP-S synthetic chaincase oil (P/N 413 803 300).

NOTICE Use only the recommended type of oil when servicing. Do not mix synthetic oil with other types of oil.

Chaincase Oil Level

With the vehicle on a level surface, check the oil level by removing the magnetic check plug on the left side of chaincase.

Oil level must reach the threaded hole's lower edge.



1. Magnetic check plug

NOTE: It is normal to find metallic particles stuck to magnetic check plug. If bigger pieces of metal are found, remove the chaincase cover and inspect the chaincase parts.

Remove metal particles from magnetic check plug.

To add oil, remove the filler cap on the chaincase cover.



TYPICAL
1. Filler cap

Pour recommended oil in chaincase by the filler hole until oil comes out by the magnetic check plug hole. Reinstall magnetic check plug and torque to 6 N•m (53 lbf•in).

Drive Belt Guard

Drive Belt Guard Removal

⚠ WARNING

NEVER operate engine:

- Without shields and belt guard securely installed.
- With hood and/or side panels opened or removed.

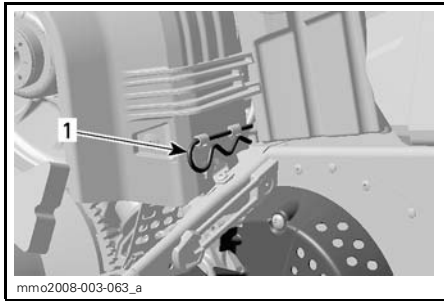
NEVER attempt to make adjustments to moving parts while engine is running.

NOTE: Belt guard is purposely made slightly oversize to maintain tension on its pins and retainers preventing undue noise and vibration. It is important that this tension be maintained when reinstalling.

Remove the tether cord cap (DESS key).

Refer to *BODY* and open engine compartment LH side panel.

Remove retaining pin.



1. Retaining pin

Lift rear portion of guard then release from front tabs by pivoting the guard outwards.

Drive Belt Guard Installation

When reinstalling belt guard, position its cutaway toward front of snowmobile.

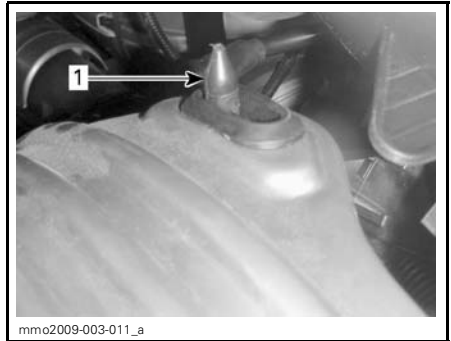
Place the front LH slot of the guard over the longest tab.

Pivot the guard inward to engage the shortest tab in the RH slot.



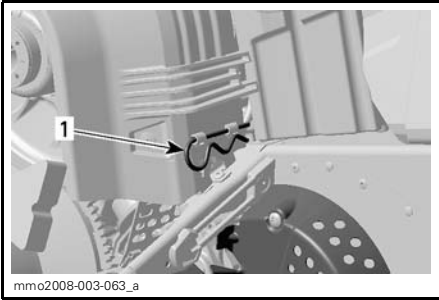
1. Tabs

Position the grommet over the retaining rod. It may be necessary to slightly lift the console to make room.



1. Retaining rod

Position rear portion of the belt guard over the retainer and secure it using the retaining pin.



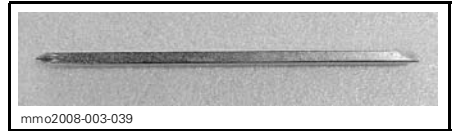
1. Retaining pin



DRIVEN PULLEY - RING TYPE

1. Lock nut
2. Adjustment ring

To loosen the lock nut, use the following tools from the tool kit.

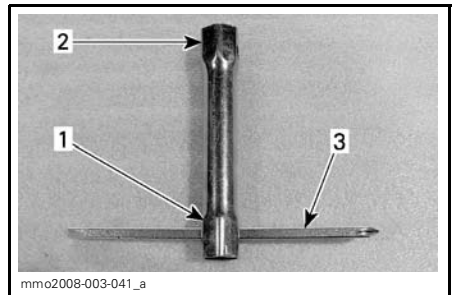


SCREWDRIVER PIN



WRENCH SOCKET 16/18 MM

Insert the screwdriver pin into the 16 mm wrench socket.



1. 16 mm end
2. 18 mm end
3. Screwdriver pin

4. Insert and set the 18 mm socket end in the lock nut.

Drive Belt

Drive Belt Inspection

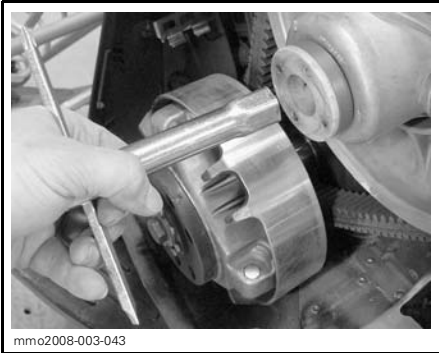
Inspect belt for cracks, fraying or abnormal wear (uneven wear, wear on one side, missing cogs, cracked fabric). If abnormal wear is noted, probable cause could be pulley misalignment, excessive RPM with frozen track, fast starts without warm-up period, burred or rusty sheave, oil on belt or distorted spare belt. Contact an authorized SKI-DOO dealer.

Drive Belt Replacement and Adjustment (Ring Type Adjuster)

Drive Belt Removal

Remove DESS key from post.

1. Open LH side panel, refer to *BODY*.
2. Remove belt guard, refer to *DRIVE BELT GUARD REMOVAL*.
3. To open the driven pulley and remove the drive belt, loosen the lock nut inside the driven pulley adjustment ring (do not remove the lock nut).



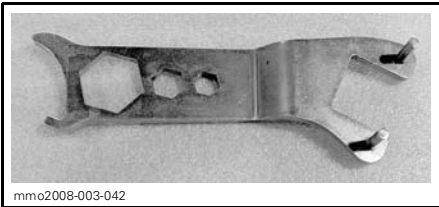
INSERT TOOL

5. Loosen lock nut by turning the tool counterclockwise (± 4 turns).

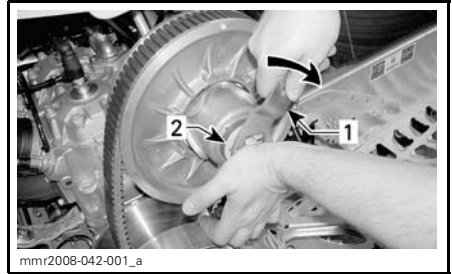


TURN TOOL COUNTERCLOCKWISE

6. Completely open the driven pulley by using the suspension adjustment tool. Insert the tool pins in the ring holes and turn clockwise.



SUSPENSION ADJUSTMENT TOOL



1. *Suspension adjustment tool*
 2. *Adjustment ring*
7. Remove the drive belt by slipping it over the top of the driven pulley.

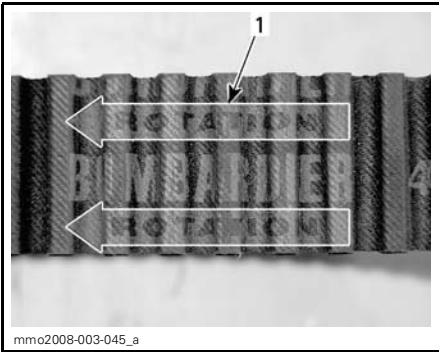


Install and adjust drive belt, refer to **DRIVE BELT INSTALLATION AND ADJUSTMENT**.

Drive Belt Installation and Adjustment

NOTE: The drive belt adjustment must be checked by an authorized SKI-DOO dealer each time a drive belt is installed and should be rechecked after 50 km (30 miles).

The maximum drive belt life span is obtained when the arrow on the drive belt is directed toward the front of the vehicle. This will ensure that correct direction of rotation is respected.



1. Arrow pointing the front of vehicle

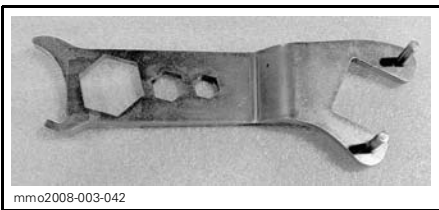
NOTE: If your drive belt was broken while riding, you will need to open the driven pulley sheaves first before trying to install a new belt. Refer to *DRIVE BELT REMOVAL* for procedure.

Install drive belt.

1. Set drive belt in the drive pulley, then in the driven pulley starting from the bottom.



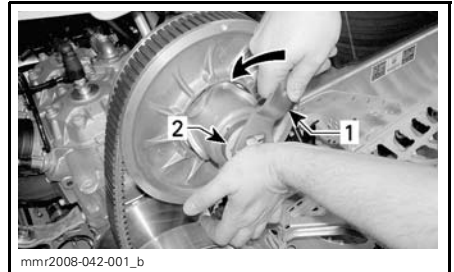
mml2008-042-002



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SUSPENSION ADJUSTMENT TOOL

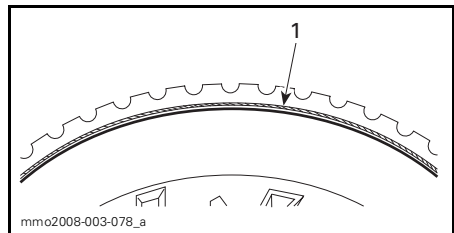
2. Turn adjustment ring counterclockwise (± 1 turn) then, manually rotate drive belt to position it properly between pulley sheaves. Repeat this procedure until drive belt cord reaches the edge of the driven pulley.



1. Suspension adjustment tool
2. Adjustment ring

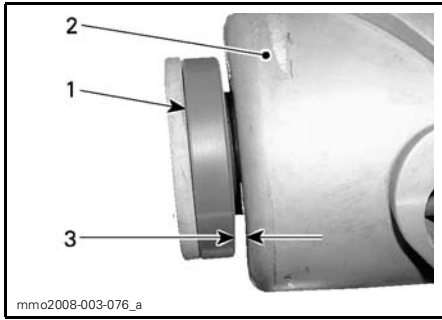


MANUALLY ROTATE DRIVE BELT



1. Drive belt cord flush with pulley edge

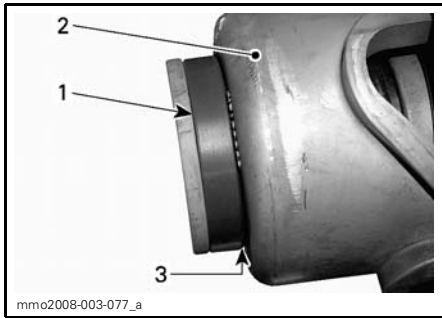
When the drive belt is properly adjusted, ensure that the swivel ring rest against the driven pulley cam. If not, turn adjustment ring clockwise to lean the swivel ring against the driven pulley cam.



mmo2008-003-076_a

INCORRECT POSITION

1. Swivel ring
2. Driven pulley cam
3. Not in contact with driven pulley

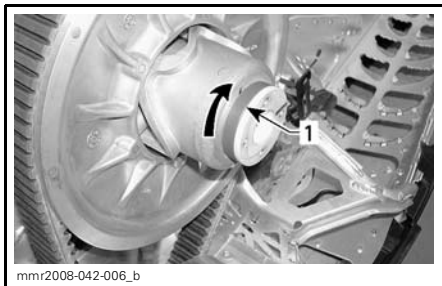


mmo2008-003-077_a

PROPER POSITION

1. Swivel ring
2. Driven pulley cam
3. In contact with driven pulley

NOTICE Overtightening swivel ring will modify drive belt adjustment and reduce drive belt life span.



mmr2008-042-006_b

1. Swivel ring

Install drive belt.

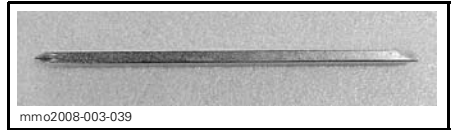
3. Tighten the lock nut using the following tools from the tool kit.



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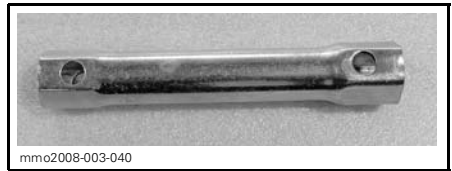
DRIVEN PULLEY

1. Lock nut
2. Adjustment ring



mmo2008-003-039

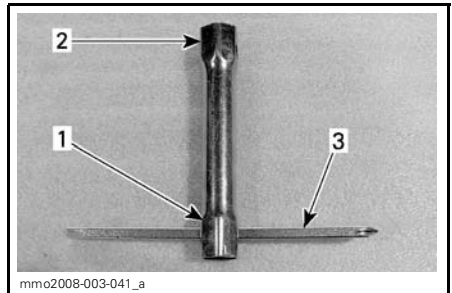
SCREWDRIVER PIN



mmo2008-003-040

WRENCH SOCKET 16/18 MM

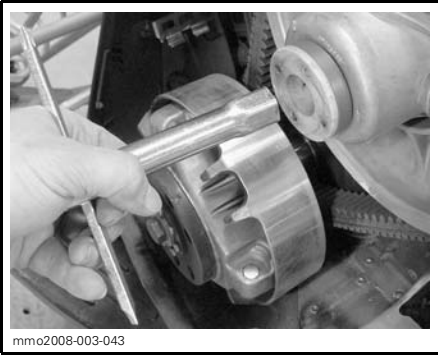
Insert the screwdriver pin into the 16 mm wrench socket.



mmo2008-003-041_a

1. 16 mm end
2. 18 mm end
3. Screwdriver pin

Insert and set the 18 mm socket end on the locking nut inside the adjustment ring.



mmo2008-003-043

INSERT TOOL

4. Tighten the lock nut by turning the tool clockwise (± 4 turns).



mmo2008-003-044_b

TURN TOOL CLOCKWISE

5. Reinstall belt guard, refer to *DRIVE BELT GUARD*.
6. Close LH side panel.

NOTE: This setting is correct as a preliminary adjustment for most models and belt types. In some cases, when starting the engine, the vehicle could creep, indicating that the belt is too tight.

If the vehicle creeps, lower the belt, install the belt guard and side panel, then start engine. Repeat until creeping stops.

NOTE: After a drive belt replacement, have the tension checked by an authorized SKI-DOO dealer.

Drive Belt Replacement (Screw Type Adjuster)

Drive Belt Removal

1. Remove DESS key from post.
2. Open LH side panel, refer to *BODY*.
3. Remove belt guard, refer to *BELT GUARD REMOVAL*.
4. Insert the driven pulley expander provided in the tool box in the threaded hole on the adjuster hub as shown.



mmo2009-010-001

EXPANDER INSTALLED ON SCREW TYPE DRIVEN PULLEY

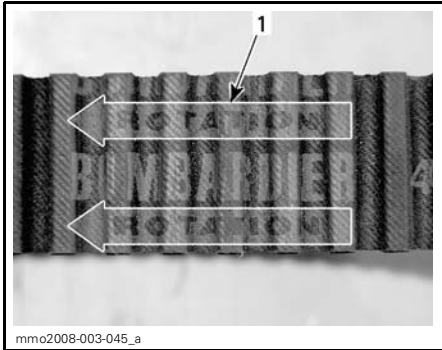
5. Open the driven pulley by screwing the tool in.
6. Remove the belt by slipping it over the top of the driven pulley, then over the drive pulley.

Drive Belt Installation

1. If necessary, open the driven pulley, refer to *DRIVE BELT REMOVAL* above.
2. Slip the belt over the drive pulley, then over the driven pulley.

NOTICE Do not force or use tools to pry the belt into place, as this could cut or break the cords in the belt.

NOTE: The maximum drive belt life span is obtained when the arrow on the drive belt is directed toward the front of the vehicle. This will ensure that correct direction of rotation is respected.



1. Arrow pointing the front of vehicle

3. Unscrew and remove the driven pulley expander from the pulley.
4. Rotate the driven pulley several times to properly set the belt between the sheaves.
5. Install belt guard, refer to *DRIVE BELT GUARD INSTALLATION*.
6. Close side panel, refer to *BODY*.
7. If a new belt was installed, adjust the belt height. Refer to *DRIVE BELT HEIGHT ADJUSTMENT* below.

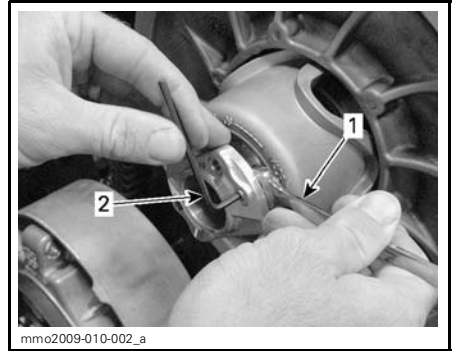
Drive Belt Height Adjustment (Screw Type Adjuster)

The drive belt height adjustment must be performed every time a new belt is installed.

To adjust the drive belt height, proceed as follows:

1. Remove DESS key from post.
2. Open LH side panel, refer to *BODY*.
3. Remove belt guard, refer to *DRIVE BELT GUARD REMOVAL*.

4. Keep the set screws from turning using a 3 mm Allen key and loosen both lock nuts using a 10 mm open wrench.

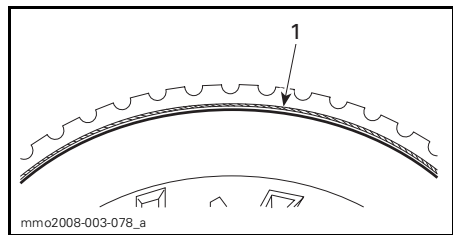


LOOSEN THE LOCK NUTS

1. 3 mm Allen key
2. 10 mm open wrench

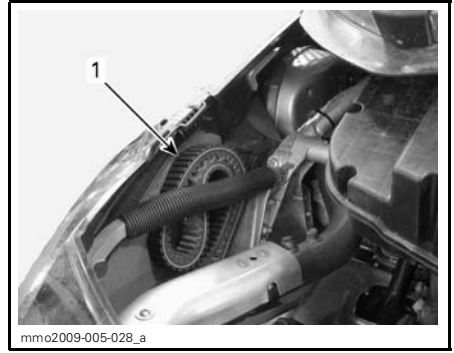
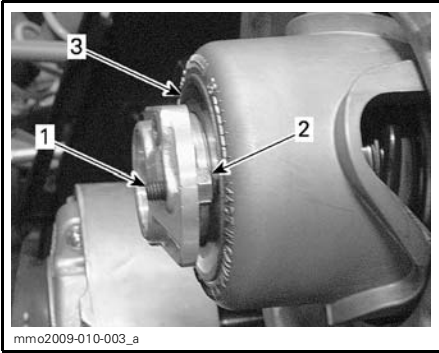
5. Turn the set screw 1/4 turn at a time then rotate the driven pulley to properly set the belt between the pulley sheaves. Repeat until the belt cord reaches the edge of the driven pulley.

NOTE: Turning the set screws clockwise lowers the belt in the pulley. Turning the set screws counterclockwise raises the belt in the pulley.



1. Drive belt cord flush with pulley edge

6. Set the other set screw so that it rests on the steel ring.



1. Set screw
2. Lock nut
3. Steel ring

1. Spare drive belt correctly stored

7. Keep the set screws from turning and tighten the lock nuts towards the adjuster hub to 5 N•m (44 lbf•in).
8. Install belt guard, refer to *DRIVE BELT GUARD INSTALLATION*.
9. Close side panel, refer to *BODY*.

NOTICE To avoid damages to the drive belt, ensure that belt does not come in contact with the exhaust system.

Drive Pulley

Drive Pulley Adjustment

⚠ WARNING

Remove the tether cord cap (DESS key) before performing any adjustment. Vehicle must be parked in a safe place, away from the trail.

NOTE: This setting is correct as a preliminary adjustment for most models and belt types. In some cases, when starting the engine, the vehicle could creep, indicating that the belt is too tight.

The drive pulley is factory calibrated to transmit maximum engine power at a predefined RPM. Factors such as ambient temperature, altitude or surface condition may vary this critical engine RPM thus affecting snowmobile efficiency.

If the vehicle creeps, lower the belt, install the belt guard and side panel, then start engine. Repeat until creeping stops.

This adjustable drive pulley allows setting maximum engine RPM to maintain maximum power.

Spare Drive Belt Storage

A spare drive belt can be stored on RH side of engine compartment.

Calibration screws should be adjusted so that actual maximum engine RPM matches the maximum horsepower RPM.

NOTE: Spare drive belt is not supplied with the snowmobile.

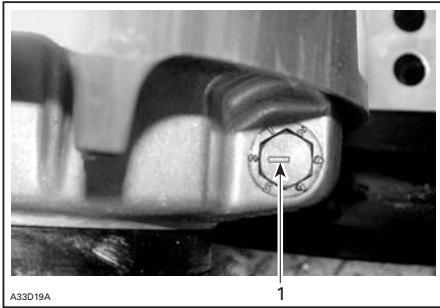
Remove hood, refer to *BODY*, and position belt as shown.

ENGINE	MAXIMUM HORSEPOWER RPM
600 HO E-TEC	8100 RPM (± 100)
1200 4-TEC	7800 RPM (± 100)

NOTE: Use precision digital tachometer for engine RPM adjustment.

NOTE: The adjustment has an effect on high RPM only.

Calibration screw has a notch on top of its head.



TYPICAL
1. Notch

There are 6 positions numbered 1 to 6. Each position modifies maximum engine RPM by about 200 RPM.

Lower position numbers decrease engine RPM in steps of 200 RPM and higher position numbers increase it in steps of 200 RPM.

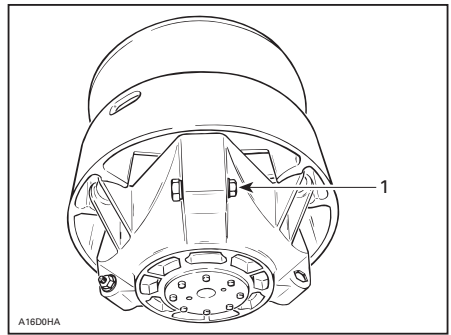
Example:

Calibration screw is set at position 4 and is changed to position 6. So maximum engine RPM is increased by 400 RPM.

Procedure

Just loosen locking nut enough to pull calibration screw partially out and adjust to desired position. Do not completely remove the locking nut. Torque locking nuts to 10 N•m (89 lbf•in).

NOTICE Do not completely remove calibration screw otherwise internal washers will fall off. Always adjust all 3 calibration screws and make sure they are all set to the same position.



TYPICAL

1. Loosen just enough to permit rotating of calibrate screw

⚠ WARNING

NEVER disassemble or modify the drive pulley.

Improper assembly or modifications could cause the pulley to explode violently under the stress generated by the high rotational speed. This could lead to serious injury including the possibility of death.

See your SKI-DOO dealer to maintain or service the drive pulley. Improper servicing or maintenance may affect performance and reduce belt life. Always respect maintenance schedules.

⚠ WARNING

NEVER operate engine:

- Without shields and belt guard securely installed.
- With hood and/or side panels opened or removed.

NEVER attempt to make adjustments to moving parts while engine is running.

Track

Track Condition

WARNING

Remove the tether cord cap (DESS key) before performing any maintenance or adjustment, unless otherwise specified. Vehicle must be parked in a safe place, away from the trail.

Remove the tether cord cap (DESS key).

Lift the rear of the snowmobile and support it with a wide-base snowmobile mechanical stand with a rear deflector panel. With the engine off, rotate the track by hand, and inspect condition. If worn or cut, or if track fibers are exposed, or if missing or defective inserts or guides are noted; contact an authorized SKI-DOO dealer.

Snowmobiles Equipped with Traction Enhancing Products

If your snowmobile is equipped with a BRP approved studded track, PROCEED WITH A VISUAL INSPECTION OF YOUR TRACK BEFORE EACH USE.

Look for any defects, such as:

- Perforations in the track
- Tears in the track (particularly around traction holes on studded tracks)
- Lugs that are broken or torn off, exposing portions of rods
- Delamination of the rubber
- Broken rods
- Broken studs (studded tracks)
- Bent studs (studded tracks)
- Missing studs
- Studs that are torn off the track
- Missing track guide(s)
- Also, ensure that studs nut are tightened to the recommended torque.

On approved studded tracks, replace broken or damaged studs immediately. If your track shows signs of deterioration, it must be replaced immediately. When in doubt, ask your dealer.

WARNING

Riding with a damaged track or studs could lead to a loss of control, resulting in a risk of serious injury or death.

For complete information on traction enhancing products, refer to the section entitled *TRACTION ENHANCING PRODUCTS* in the *SAFETY INFORMATION* section at the beginning of this Operator's Guide.

Track Tension and Alignment

NOTE: Track tension and alignment are interrelated. Do not adjust one without the other.

WARNING

To prevent serious injury to individuals near the snowmobile:

- NEVER stand behind or near a moving track.
- Always use a wide-base snowmobile stand with a rear deflector panel.
- When the track is raised off the ground, only run it at the lowest possible speed.

Centrifugal force could cause debris, damaged or loose studs, pieces of torn track, or an entire severed track to be violently thrown backwards out of the tunnel with tremendous force, possibly resulting in the loss of a leg or other serious injury.

Tension

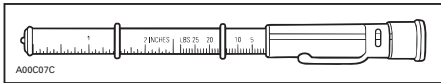
NOTE: Ride the snowmobile in snow about 15 to 20 minutes prior to adjusting track tension.

Remove the tether cord cap (DESS key).

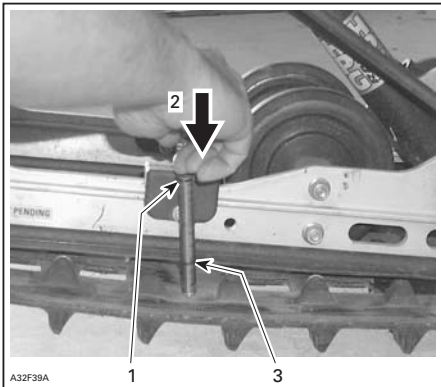
Lift rear of snowmobile and support it with a wide-base snowmobile mechanical stand.

Allow the suspension to extend normally and check gap halfway between front and rear idler wheels. Measure between slider shoe bottom and inside of track. The gap should be as given in *SPECIFICATIONS* at the end of this guide. If the track tension is too loose, track will have a tendency to thump.

NOTE: A belt tension tester (P/N 414 348 200) may be used to measure deflection as well as force applied.



BELT TENSION TESTER



TYPICAL

1. Top tool O-ring positioned at 7.3 kg (16 lb)
2. Push on top portion of tool until it contacts the top O-ring
3. Measured track deflection

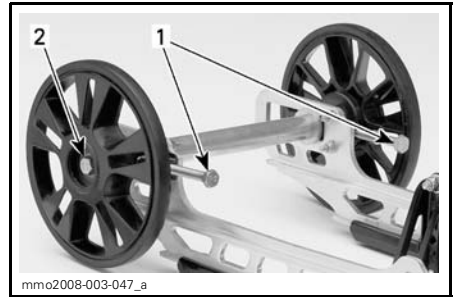
NOTICE Too much tension will result in power loss and excessive stresses on suspension components.

To adjust track tension:

- Remove the tether cord cap (DESS key).

- Remove rear wheel caps (if so equipped).
- Loosen the rear idler wheel retaining bolts.
- Turn adjustment bolts to adjust.

If correct tension is unattainable, contact an authorized SKI-DOO dealer.



TYPICAL

1. Adjustment bolts
2. Loosen bolt

1. Retighten retaining bolts.
2. Check track alignment as described below.

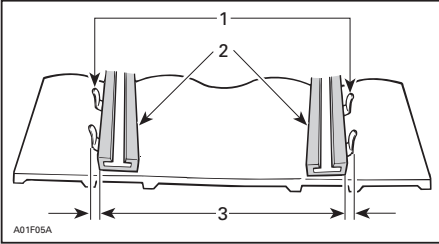
Alignment

⚠ WARNING

Before checking track alignment, ensure that the track is free of all particles which could be thrown out while track is rotating. Keep hands, tools, feet and clothing clear of track. Always lift the snowmobile on a wide-base stand with a rear deflector panel. Ensure no one is standing in close proximity to the snowmobile, especially at the rear of the track. Never rotate track at high speed. Centrifugal force could cause debris, damaged or loose studs, pieces of torn track, or an entire severed track to be violently thrown backwards out of the tunnel with tremendous force, possibly resulting in the loss of a leg or other serious injury.

Start the engine and accelerate slightly so that track barely turns. This must be done in a short period of time (about 5 seconds).

Check that the track is well centered; equal distance on both sides between edges of track guides and slider shoes.



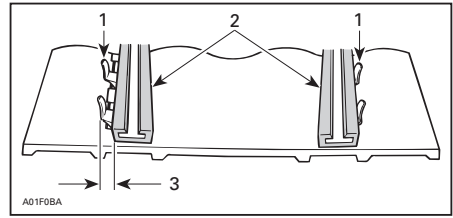
1. Guides
2. Slider shoes
3. Equal distance

If off center, perform alignment as follows:

⚠ WARNING

Remove the tether cord cap (DESS key) before performing any maintenance or adjustment, unless otherwise specified. Vehicle must be parked in a safe place, away from the trail.

1. Remove the tether cord cap (DESS key).
2. Loosen rear idler wheel retaining bolts.
3. Tighten the adjustment bolt on side where the slider shoe is the farthest from the track insert guides.

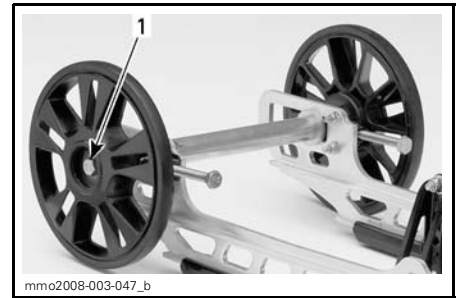


1. Guides
2. Slider shoes
3. Tighten on this side

4. Tighten retaining bolts.

⚠ WARNING

Properly tighten wheel retaining bolts, otherwise wheel may come off and cause track to "lock".



TYPICAL

1. Retighten to 48 N•m (35 lbf•ft)
5. Restart engine and rotate track slowly to recheck alignment.
6. Reposition snowmobile on ground.
7. Install rear wheel caps if so equipped.

Suspension

Rear Suspension Condition

Visually inspect all suspension components including slider shoes, springs, wheels, etc.

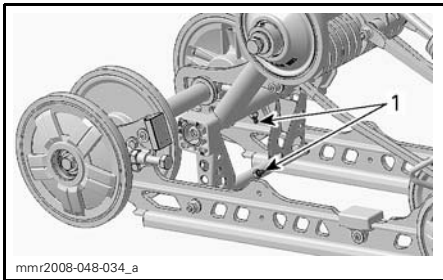
NOTE: During normal driving, snow will act as a lubricant and coolant for the slider shoes. Extensive riding on ice or sanded snow, will create excessive heat build-up and cause premature slider shoe wear.

Suspension Stopper Strap Condition

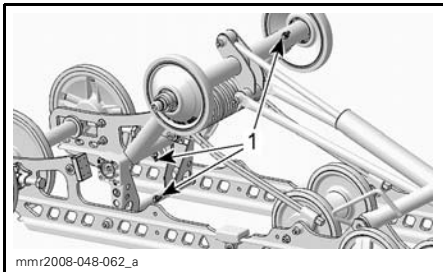
Inspect stopper strap for wear and cracks, bolt and nut for tightness. If loose inspect holes for deformation. Replace as required. Torque nut to 11 N•m (97 lb•in).

Rear Arm Lubrication

Lubricate rear arm at grease fittings using suspension synthetic grease (P/N 293 550 033). Refer to *MAINTENANCE SCHEDULE* for maintenance frequency.



MX Z X, MX Z TNT AND GSX SERIES
1. Grease fittings



MX Z RENEGADE AND GTX SERIES
1. Grease fittings

Steering and Front Suspension Condition

Visually inspect steering and front suspension for tightness of components (steering arms, control arms and links, tie rods, ball joints, ski bolts, ski legs, etc.). If necessary, contact an authorized SKI-DOO dealer.

Skis

Wear and Condition of Skis and Runners

Check the condition of the skis and ski runner carbides. If worn, contact an authorized SKI-DOO dealer.

⚠ WARNING

Excessively worn skis and/or ski runners will adversely affect snowmobile control.

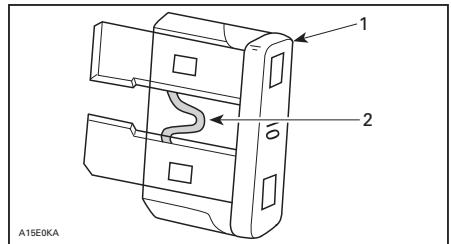
Fuses

Fuse Inspection

The electrical system is protected with fuses.

Check fuse condition and replace it if necessary.

To remove fuse from holder, pull fuse out. Check if filament is melted.



1. Fuse
2. Check if melted

NOTICE Do not use a higher rated fuse as this can cause severe damage to electrical components and/or be a potential fire.

⚠ WARNING

If fuse has burnt out, source of malfunction should be determined and corrected before restarting. See an authorized SKI-DOO dealer for servicing.

Fuse Location

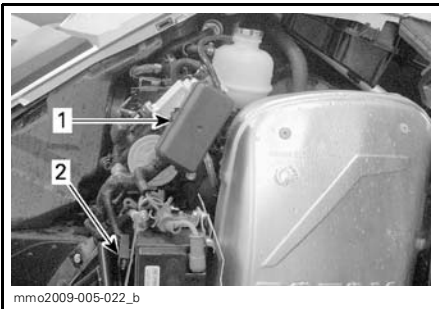
Remove RH side panel, refer to *BODY*.
600 HO E-TEC



TYPICAL - RH SIDE OF ENGINE COMPARTMENT

1. 30 A charging system fuse
2. 5 A START/RER fuse

1200 4-TEC



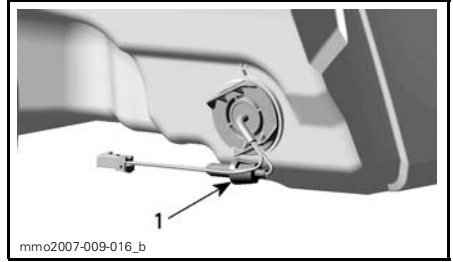
RH SIDE OF ENGINE COMPARTMENT

1. Fuse box
2. 30 A charging system fuse

Refer to the cover decal or the *SPECIFICATIONS* section of this guide for fuses identification.

All Models

The electric fuel level sender fuse is located behind the air intake silencer.



BEHIND AIR INTAKE SILENCER

1. Fuse location

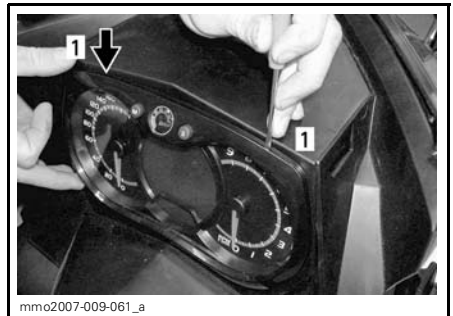
Lights

Always check light operation after bulb replacement.

Headlights Bulb Replacement

NOTICE Never touch glass portion of an 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.

1. By using a small screwdriver, release multifunction gauge locking tabs.

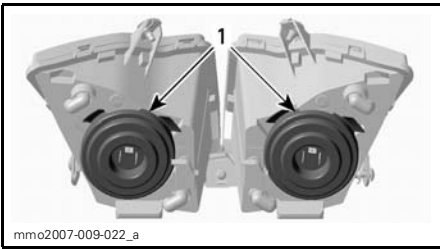


1. Locking tab

2. Gently pull on multifunction gauge and set aside.

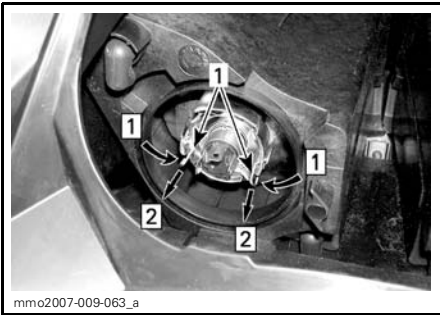


3. Unplug burnt bulb connector. Remove the rubber boot.



1. Rubber boots

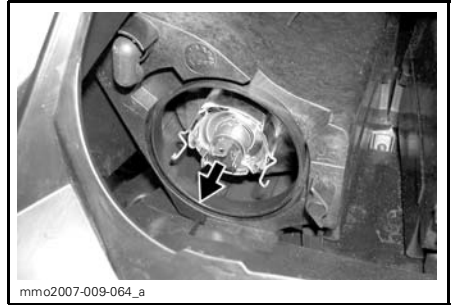
4. Press and pull both sides of the retaining clip at the same time to release it from bulb support.



Step 1: Push both sides
Step 2: Pull to release

1. Retaining clip

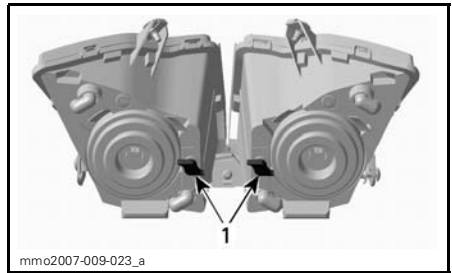
5. Pull bulb and replace. Properly re-install parts.



PULL BULB AND REPLACE

Headlights Beam Aiming

Remove multifunction gauge, refer to *HEADLIGHTS BULB REPLACEMENT*. Turn knob to adjust beam height.



TYPICAL
1. Knobs

Taillight Bulb Replacement

MX Z and GSX Models

To expose the bulb, remove the red plastic lens by removing the lens screws.

GTX Models

To expose bulbs, proceed as follows:

1. Remove the taillight cover by pulling up the rear end of cover.



1. Taillight cover

2. Remove the screws retaining the taillight housing.



1. Taillight housing retaining screws

3. To remove the socket from the taillight housing, turn the socket counterclockwise then pull it out.

Body

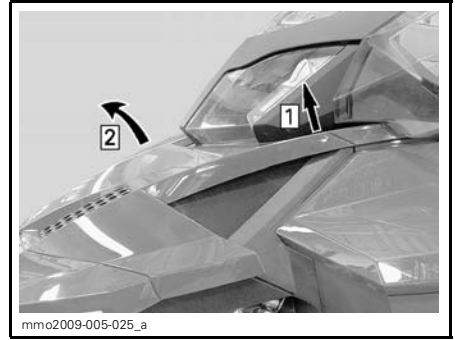
Hood

⚠ WARNING

Never operate engine with hood removed from vehicle.

Hood Removal

1. Pull up the rear end of the hood on both sides.
2. Lift the rear end of the hood until it disengages from the bottom pan.



Step 1: Pull up

Step 2: Lift

Hood Installation

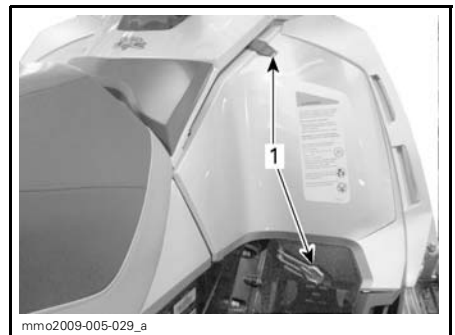
1. Engage the tabs located at front of the hood into the slots on the bottom pan cover.
2. Lower the rear end of the hood and press down on both sides to lock it in place.

Side Panels

⚠ WARNING

Never operate engine with side panels opened or removed from vehicle.

To open a side panel, stretch and unhook the latches.



TYPICAL

1. Latches

To remove a side panel, proceed as follows: Free the lower hinge from its slot, then free the upper hinge by lowering the panel.

1. Open the side panel.
2. Lift up the side panel and free the lower hinge from its slot.
3. Free the upper hinge from its slot by lowering the side panel.

Vehicle Cleaning and Protection

Remove any dirt or rust.

To clean the entire vehicle, use only flannel cloths or equivalent.

NOTICE It is necessary to use flannel cloths or equivalent on windshield and hood to avoid damaging further surfaces to clean.

To remove grease, oil and grime, use Heavy duty cleaner (P/N 293 110 001) (spray can 400 g) and (P/N 293 110 002) (4 L).

NOTICE Do not use Heavy duty cleaner on decals or vinyl.

To remove stubborn dirt from all plastic and vinyl surfaces, use Vinyl & Plastic Cleaner ((P/N 413 711 200) (6 x 1 L)).

To remove scratches on windshield or hood use the Scratch Remover Kit (P/N 861 774 800).

NOTICE Never clean plastic parts or hood with strong detergent, degreasing agent, paint thinner, acetone, products containing chlorine, etc.

Wax painted portion of the vehicle for better protection.

NOTE: Apply wax on glossy finish only.

STORAGE AND PRESEASON PREPARATION

⚠ WARNING

Have an authorized SKI-DOO dealer inspect fuel and oil systems integrity as specified in *MAINTENANCE SCHEDULE*.

Storage

During summer, or when a snowmobile is not in use for more than three months, proper storage is a necessity.

To prepare your snowmobile, refer to an authorized SKI-DOO dealer.

To facilitate the inspection and ensure adequate lubrication of components, it is recommended to clean the entire vehicle.

When storage procedure is completed, block muffler with clean rags.

Lift rear of vehicle until track is clear of the ground. Install on a wide-base snowmobile mechanical stand with a rear deflector panel.

⚠ WARNING

Do not attempt to lift the vehicle by hand alone. Use appropriate lifting device or have assistance to share lifting stress in order to avoid risk of strain injuries.

NOTE: Do not release track tension.

Protect the vehicle with an approved cover to prevent dust accumulation during storage.

NOTICE The snowmobile has to be stored in a cool and dry place and covered with an opaque but ventilated tarpaulin. This will prevent sun rays and grime from affecting plastic components and vehicle finish.

Engine Storage Mode

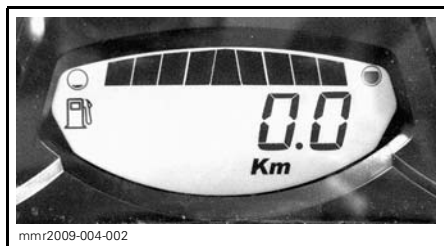
600 HO E-TEC Engines

Like other 2-stroke engines, the 600 HO E-TEC has to be properly lubricated at storage for internal parts protection.

The E-TEC system offers a built-in engine lubrication function can be initiated by the operator.

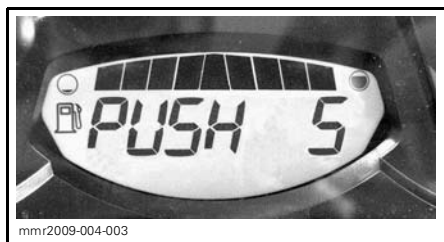
To engage procedure, do the following:

1. Place the vehicle in a well ventilated area.
2. Start the engine and let it run at idle speed until it reaches its operating temperature (watch the coolant temperature on the display).
3. Push the SET (S) button to select odometer mode.

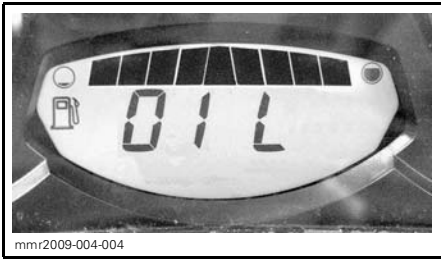


NOTE: The storage mode does not function in other modes (trip A, trip B and hr trip).

4. Press and hold the SET (S) button and simultaneously depress the HI/LOW beam switch repeatedly several times.
5. Release switch and button when **PUSH "S"** appears in the display.



6. Again, press and hold the SET (S) button 2 - 3 seconds.
7. When **OIL** appears in display, release the button and wait the end of the procedure.



The engine lubrication procedure takes approximately 1 minute. During this time the engine RPM will increase slightly.

At the end of engine lubrication procedure, the ECM will turn the engine off.

Remove tether cord.

NOTICE Do not start the engine during storage period.

Preseason Preparation

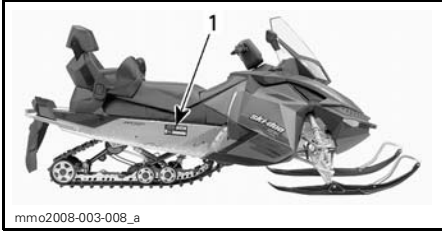
To prepare your snowmobile, refer to an authorized SKI-DOO dealer.

TECHNICAL INFORMATION

VEHICLE IDENTIFICATION

Vehicle Description Decal

Vehicle description decal is located on right hand side of tunnel.



TYPICAL

1. Vehicle description decal

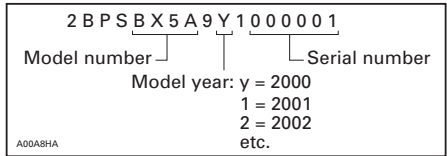
note of all the serial numbers on your snowmobile and supply them to your insurance company.

Vehicle Identification Number (V.I.N.) Location

V.I.N. is scribed on vehicle description decal. See above. It is also engraved on tunnel near vehicle description decal.

Model Number Location

Model number is part of vehicle identification number (V.I.N.).



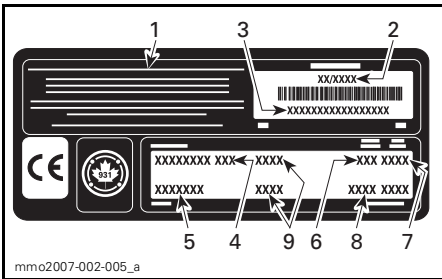
V.I.N. DESCRIPTION

Engine Serial Number Location



TYPICAL - 600 HO E-TEC ENGINE

1. Engine serial number

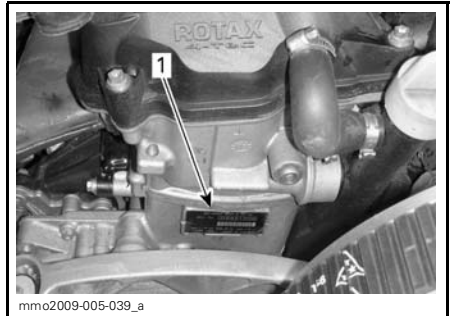


VEHICLE DESCRIPTION DECAL

1. Manufacturer name
2. Manufacturing date
3. Vehicle identification number (V.I.N.)
4. Model name
5. Option package
6. Engine type
7. Model year
8. Color codes
9. Vehicle weight/engine power (European models)

Serial Numbers

The main components of your snowmobile (engine and frame) are identified with different serial numbers. It may sometimes become necessary to locate these numbers for warranty purposes or to trace your snowmobile in the event of loss. These numbers are required by the authorized SKI-DOO dealer to complete warranty claims properly. No warranty will be allowed by BRP if the engine serial number or vehicle identification number (V.I.N.) is removed or mutilated in any way. We strongly recommend that you take



1200 4-TEC ENGINE

1. Engine serial number

The EC-Declaration of Conformity does not appear in this version of the Operator's Guide.

Please refer to the printed version that was delivered with your vehicle.

EPA CERTIFIED ENGINES

Maintenance, replacement, or repair of the emission control devices and systems may be performed by any snowmobile SI (spark ignition) engine repair establishments or individual.

Engine Emissions Information

Manufacturer's Responsibility

Beginning with 2009 model year engines, snowmobile manufacturers of snowmobile engines need to determine the exhaust emission levels for each engine horsepower family and certify these engines with the United States of America Environmental Protection Agency (EPA). An emissions control information label, showing emission levels and engine specifications, must be placed on each vehicle at the time of manufacture.

Dealer's Responsibility

When performing service on a certified SKI-DOO snowmobiles that carry an emissions control information label, adjustments must be kept within published factory specifications.

Replacement or repair of any emission related component must be executed in a manner that maintains emission levels within the prescribed certification standards.

Dealers are not to modify the engine in any manner that would alter the horsepower or allow emission levels to exceed their predetermined factory specifications.

Exceptions include manufacturer's prescribed changes, such as altitude adjustments for example.

Owner Responsibility

The owner/operator is required to have engine maintenance performed to maintain emission levels within prescribed certification standards.

The owner/operator is not to, and should not allow anyone to modify the engine in any manner that would alter the horsepower or allow emissions levels to exceed their predetermined factory specifications.

EPA Emission Regulations

All 2009 SKI-DOO snowmobiles manufactured by BRP are certified to the EPA as conforming to the requirements of the regulations for the control of air pollution from new snowmobile engines. This certification is contingent on certain adjustments being set to factory standards. For this reason, the factory procedure for servicing the product must be strictly followed and, whenever practicable, returned to the original intent of the design.

The responsibilities listed above are general and in no way a complete listing of the rules and regulations pertaining to the EPA requirements on exhaust emissions for snowmobile products. For more detailed information on this subject, you may contact the following locations:

MAIL:

U.S. Environmental Protection Agency
Office of Transportation and Air Quality
1200 Pennsylvania Ave. NW
Mail Code 6403J
Washington D.C. 20460

INTERNET WEB SITE:

www.epa.gov/otaq/

SPECIFICATIONS

600 HO E-TEC Model

MODEL		600 HO E-TEC
ENGINE		
Engine type	Rotax 593, liquid cooled w/Reed valve, 3D-RAVE	
Cylinders	2	
Displacement	594.4 cc (36.3 in ³)	
Bore	72 mm (2.8 in)	
Stroke	73 mm (2.9 in)	
Maximum horsepower engine RPM	8100 RPM	
Fuel injection system	E-TEC Direct injection	
Exhaust system	Single tuned pipe, baffle muffler	
Engine oil	XP-S Synthetic Blend 2-stroke oil (P/N 293 600 101)	
Engine oil tank capacity	3.7 L (3.9 U.S. quarts)	
Coolant	Ethyl glycol/water mix (50% coolant, 50% distilled water). Use BRP premix coolant or coolant specifically designed for aluminum engines	
Recommended fuel type	Super unleaded	
Minimum octane	Inside North America	(91 (RON + MON)/2)
	Outside North America	95 RON
Fuel tank capacity	40 L (10.6 U.S. gal)	
DRIVE SYSTEM		
Drive pulley type	TRA III	
Driven pulley type	QRS	
Engagement	3400 RPM	
Small sprocket number of teeth	23	
Large sprocket number of teeth	45	
Drive sprocket number of teeth	8	
Chaincase oil	XP-S synthetic chaincase oil	
Chaincase oil capacity	250 ml (8.5 U.S. oz)	
Brake system	Hydraulic, REV-XP brake type	
Brake fluid	DOT 4	
Track nominal width	381 mm (15 in)	
Track nominal length	3487 mm (137 in)	

SPECIFICATIONS

MODEL		600 HO E-TEC
DRIVE SYSTEM (cont'd)		
Track profile height		25.4 mm (1 in)
Track tension	Deflection	30 - 35 mm (1-3/16 - 1-3/8 in)
	Force ⁽¹⁾	7.3 kg (16 lb)
Track alignment		Equal distance between edges of track guides and slider shoes
SUSPENSION		
Front suspension		REV-XP
Front shock		HPG
Front suspension max. travel		229 mm (9 in)
Rear suspension		SC-5
Front arm shock		HPG
Rear arm shock		HPG-VR
Rear suspension max. travel		381 mm (15 in)
ELECTRICAL SYSTEM		
Lightning system output		12V/360 W 55 V/1100 W
Headlights bulb HI/LOW beam		2 x 60/55 Watts (H-4)
Taillight bulb		2 x P 21/5 W
Spark plug	Type	NGK PZFR6F ⁽²⁾
	Gap	Not adjustable 0.7 - 0.8 mm (.027 - .031 in)
Fuses		Refer to <i>FUSES</i> section
DIMENSIONS		
Vehicle overall length		3226 mm (127 in)
Vehicle overall width		1217 mm (47.9 in)
Vehicle overall height		1325 mm (52.1 in)
Dry weight		242 kg (535 lb)
Ski stance		1195 mm (47 in)
Ski width		145 mm (5.7 in)

⁽¹⁾ Measure gap between slider shoe and bottom inside track when exerting a downward pull to the track.

⁽²⁾ **NOTICE** Do not attempt to adjust gap on this spark plug.

1200 4-TEC

MODEL		1200 4-TEC
ENGINE		
Engine type	Rotax 1203, liquid cooled, 4-Stroke, D.O.H.C. with balancer shaft, dry sump	
Cylinders	3	
Displacement	1170.7 cc (71.4 in ³)	
Bore	91 mm (3.58 in)	
Stroke	60 mm (2.36 in)	
Maximum horsepower engine RPM	7800 RPM	
Fuel injection system	Multi point EFI, 52 mm heated throttle body	
Exhaust system	Exhaust pipe, muffler	
Engine oil	XP-S™ 0W40 synthetic 4-stroke oil	
Engine oil tank capacity	Oil change with filter: 3.5 L (3.7 U.S. quarts)	
Coolant	Ethyl glycol/water mix (50% coolant, 50% distilled water). Use BRP premix coolant or coolant specifically designed for aluminum engines	
Recommended fuel type	Regular unleaded	
Minimum octane	Inside North America	(87 (RON + MON)/2)
	Outside North America	92 RON
Fuel tank capacity	40 L (10.6 U.S. gal)	
DRIVE SYSTEM		
Drive pulley type	TRA III	
Driven pulley type	QRS	
Engagement	MX Z	2800 RPM
	GSX/GTX	2500 RPM
Small sprocket number of teeth	24	
Large sprocket number of teeth	GSX/MX Z TNT/ MX Z X	43
	Others	45
Drive sprocket number of teeth	8	
Chaincase oil	XP-S synthetic chaincase oil	
Chaincase oil capacity	250 ml (8.5 U.S. oz)	

SPECIFICATIONS

MODEL		1200 4-TEC
DRIVE SYSTEM (cont'd))		
Brake system		Hydraulic, REV-XP brake type
Brake system fluid		DOT 4
Track nominal width	GTX/MX Z TNT/ MX Z X	381 mm (15 in)
	All Renegade/ GTX SE (Europe)	406 mm (16 in)
Track nominal length	All Renegade/GTX	3487 mm (137 in)
	Others	3051 mm (120 in)
Track profile height	MX Z X/ all Renegade/ GTX SE (Europe)	31.8 mm (1.25 in)
	Others	25.4 mm (1 in)
Track tension	Deflection	30 - 35 mm (1-3/16 - 1-3/8 in)
	Force ⁽¹⁾	7.3 kg (16 lb)
Track alignment		Equal distance between edges of track guides and slider shoes
SUSPENSION		
Front suspension		REV-XP
Front shock	MX Z TNT	HPG T/A aluminium
	MX Z X/ all Renegade	HPG clicker T/A aluminium
	Others	HPG
Front suspension max. travel		229 mm (9 in)
Rear suspension		SC-5
Front arm shock	MX Z TNT/MX Z X/ Renegade X	HPG T/A aluminium
	Others	HPG
Rear arm shock	Renegade	HPG
	MX Z TNT	HPG T/A aluminium
	MX Z X/Renegade X	Racing clicker aluminium
	GSX/GTX LE	HPG-VR
	GTX SE	ACS (Air Control Suspension)
Rear suspension max. travel	All Renegade	406 mm (16 in)
	Others	381 mm (15 in)

MODEL		1200 4-TEC
ELECTRICAL SYSTEM		
Lightning system output		12V/490 W
Headlights bulb HI/LOW beam		2 x 60/55 Watts (H-4)
Taillight bulb		2 x P 21/5 W
Spark plug	Type	NGK CR8EKB ⁽²⁾
	Gap	Not adjustable
Fuses	F1: Cluster/ heater element	15 A
	F2: Fuel pump/ starter solenoid/ C.A.P.S.	10 A
	F3: Cylinder 3	5 A
	F4: Cylinder 2	5 A
	F5: Cylinder 1	5 A
	F6: Taillight/ heat element/ air suspension	20 A
	F7: Headlights	15 A
	F8: E-Reverse	20 A
	F9: Start button/ clock	5 A
	F10: Rear accessories	15 A
	F11: Fan	15 A
DIMENSIONS AND WEIGHT		
Vehicle overall length	MXZ/GSX	2890 mm (113.8 in)
	All Renegade	3110 mm (122.4 in)
	GTX	3226 mm (127 in)
Vehicle overall width		1217 mm (47.9 in)
Vehicle overall height	MX Z X/Renegade X	1110 mm (43.7 in)
	MX Z TNT	1015 mm (40 in)
	Renegade	1200 mm (47.2 in)
	GSX/GTX	1325 mm (52.1 in)

SPECIFICATIONS

MODEL		1200 4-TEC
DIMENSIONS AND WEIGHT (cont'd)		
Dry weight	MX Z TNT	226 kg (499 in)
	MX Z X	231 kg (509 in)
	Renegade	242 kg (535 lb)
	Renegade X	236 kg (521 lb)
	GSX	244 kg (539 lb)
	GTX LE	265 kg (584 lb)
	GTX SE	271 kg (599 lb)
Ski stance		1195 mm (47 in)
Ski width	Renegade (Europe)/ GTX SE (Europe)	175 mm (6.9 in)
	Others	145 mm (5.7 in)

(1) Measure gap between slider shoe and bottom inside track when exerting a downward pull to the track.

(2) **NOTICE** Do not attempt to adjust gap on this spark plug.

TROUBLESHOOTING

TECHNICAL GUIDELINES (600 HO E-TEC)

ELECTRIC STARTER DOES NOT WORK.

1. Engine stop switch in OFF position or tether cord cap (DESS key) away from post.
 - Place engine stop switch in the ON position and install tether cord cap (DESS key) on post.
2. Throttle applied while attempting an engine start.
 - Release throttle while cranking.

ENGINE RPM DOES NOT REACH CLUTCH ENGAGEMENT POINT.

1. DESS did not read tether cord cap (DESS key) code. DESS pilot lamp blinks (slow short beeps/repetitive).
 - Properly install tether cord cap (DESS key).
2. DESS has read a different code than the one programmed. DESS pilot lamp blinks rapidly (fast short beeps/repetitive).
 - Install a tether cord cap (DESS key) for which this snowmobile was programmed.

ENGINE LACKS OF POWER/VEHICLE DOES NOT REACH FULL SPEED.

1. Drive and driven pulleys require servicing.
 - Contact an authorized SKI-DOO dealer.
2. Engine overheats.
 - Check coolant level, see MAINTENANCE PROCEDURES.
 - Check heat exchangers cleanliness. Clean if necessary.
 - If coolant level is correct and heat exchangers are clean, contact an authorized SKI-DOO dealer.
3. Drive belt worn too thin.
 - If the drive belt has lost more than 3 mm (1/8 in) of its original width, it will affect vehicle performance.
 - Replace drive belt.
4. Incorrect track adjustment.
 - See MAINTENANCE INFORMATION and/or an authorized SKI-DOO dealer for proper alignment and tension adjustments.

ENGINE BACKFIRES.

1. Engine is running too hot.
 - See item 2 of ENGINE LACKS POWER/VEHICLE DOES NOT REACH FULL SPEED.
2. Ignition timing is incorrect or there is an ignition system failure.
 - Contact an authorized SKI-DOO dealer.

ENGINE MISFIRES.

1. Water in fuel.
 - Drain fuel system and refill with fresh fuel.

ENGINE MISFIRES. (cont'd)

2. RAVE valves malfunction.

- *Have RAVE valves system inspected by an authorized SKI-DOO dealer.*

TECHNICAL GUIDELINES (1200 4-TEC)

STARTER DOES NOT WORK.

1. Engine stop switch in OFF position or tether cord cap (DESS key) away from post.
 - *Place engine stop switch in the ON position and install tether cord cap (DESS key) on post.*
2. Throttle applied while attempting an engine start.
 - *Release throttle while cranking.*

ENGINE RPM DOES NOT REACH CLUTCH ENGAGEMENT POINT.

1. DESS did not read tether cord cap (DESS key) code. DESS pilot lamp blinks (slow short beeps/repetitive).
 - *Properly install tether cord cap (DESS key).*
2. DESS has read a different code than the one programmed. DESS pilot lamp blinks rapidly (fast short beeps/repetitive).
 - *Install a tether cord cap (DESS key) for which this snowmobile was programmed.*

ENGINE LACK OF POWER/VEHICLE DOES NOT REACH FULL SPEED.

1. Drive and driven pulleys require servicing.
 - *Contact an authorized SKI-DOO dealer.*
2. Engine overheats.
 - *Check coolant level, see MAINTENANCE PROCEDURES.*
 - *Check heat exchangers cleanliness. Clean if necessary.*
 - *If coolant level is correct and heat exchangers are clean, contact an authorized SKI-DOO dealer.*
3. Drive belt worn too thin.
 - *If the drive belt has lost more than 3 mm (1/8 in) of its original width, it will affect vehicle performance.*
 - *Replace drive belt.*
4. Incorrect track adjustment.
 - *See MAINTENANCE INFORMATION and/or an authorized SKI-DOO dealer for proper alignment and tension adjustments.*

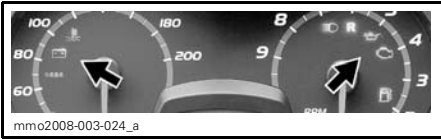
ENGINE MISFIRES.

1. Water in fuel.
 - *Drain fuel system and refill with fresh fuel.*

MONITORING SYSTEM

Pilot Lamps, Messages and Beeper Codes

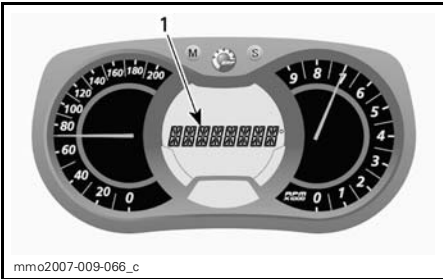
Gauge pilot lamp(s) will inform you if an anomaly occurs or to inform you of a particular condition.



TYPICAL — PILOT LAMPS

Pilot lamp can flash alone or in combination with another lamp.

This display is used as a complement of the pilot lamps to give you a brief description if an anomaly occurs or to inform you of a particular condition.



1. Message display






Messages will be displayed with a beep code and pilot lamp(s).


Beeper codes will be heard and messages (depending on gauge model) will be displayed to catch your attention.

See table below for details.

NOTE: Message display is not available on all gauges.





600 HO E-TEC

PILOT LAMP(S) ON	BEEPER	MESSAGE DISPLAY ⁽¹⁾	DESCRIPTION
	4 short beeps	ENGINE	Engine is overheating, reduce snowmobile speed and run in loose snow or stop engine immediately and let engine cool down. Check coolant level, refer to <i>MAINTENANCE INFORMATION</i> . If coolant level is correct and overheating persists, contact an authorized SKI-DOO dealer. Do not run the engine if condition persists.
		MUFFLER	Reduce speed or stop engine. Let engine cool down and restart. If overheating persists, contact an authorized SKI-DOO dealer. Do not run the engine if condition persists.
 	Short beeps repeating rapidly	ENGINE	Critical overheat. Stop engine immediately and let engine cool down. Check coolant level, refer to <i>MAINTENANCE INFORMATION</i> . If coolant level is correct and overheating persists, contact an authorized SKI-DOO dealer. Do not run the engine if condition persists.
		MUFFLER	Critical overheat. Stop engine immediately and let engine cool down. If overheating persists, contact an authorized SKI-DOO dealer. Do not run the engine if condition persists. Do not run the engine if condition persists.
		ECM	
 	4 short beeps every 2 minutes	LOW BAT	Indicate a low or high battery voltage condition. See an authorized SKI-DOO dealer as soon as possible.
		HIGH BAT	

PILOT LAMP(S) ON	BEEPER	MESSAGE DISPLAY ⁽¹⁾	DESCRIPTION
	4 short beeps	CHECK ENGINE	Engine fault, see an authorized SKI-DOO dealer as soon as possible.
	4 short beeps every 2 minutes	KNOCK	Engine detonation (RPM is limited when this condition occurs). <ul style="list-style-type: none"> – Ensure recommended fuel is used. – Check fuel quality, replace if necessary. – If fault still occurs, contact an authorized SKI-DOO dealer.
	4 short beeps every 2 minutes	LIMP HOME	Engine RPM limited for protection when certain faults occur.
	Continuously beeps	SHUTDOWN	Shutdown procedure in force due to engine overheating or fuel pump problem, remove tether cord cap (DESS key) and contact an authorized SKI-DOO dealer.
—	—	COMMUNICATION	Communication problem between ECM and gauge. Stop engine, remove tether cord cap (DESS key). Wait a few minutes, then start engine. If problem persists, contact an authorized SKI-DOO dealer.
DESS	2 short beeps	—	Good key, vehicle ready to operate.
	2 short beeps, repeating slowly	CHECK KEY	Unable to read key (bad connection). Make sure the key is clean and correctly snapped on post.
	Short beeps repeating rapidly	BAD KEY	Invalid key or key not programmed. Use the proper key for the vehicle or have the programmed.

(1) 50th anniversary, X and Limited package only.

1200 4-TEC

PILOT LAMP(S) ON	BEEPER	MESSAGE DISPLAY ⁽¹⁾	DESCRIPTION
	4 short beeps	ENGINE_TEMP	Engine is overheating, reduce snowmobile speed and run in loose snow or stop engine immediately and let engine cool down. Check coolant level, refer to <i>MAINTENANCE INFORMATION</i> . If coolant level is correct and overheating persists, contact an authorized SKI-DOO dealer. Do not run the engine if condition persists.
	4 short beeps every 2 minutes	LOW BAT	Indicate a low or high battery voltage condition. See an authorized SKI-DOO dealer as soon as possible.
		HIGH BAT	
	4 short beeps	CHECK ENGINE	Engine fault, see an authorized SKI-DOO dealer as soon as possible.
	4 short beeps every 2 minutes	LIMP HOME	Engine RPM limited for protection when certain faults occur.
	Continuous short beeps	SHUTDOWN	Shutdown procedure due to extended engine idling time. Restart engine when ready.
—	—	COMMUNICATION	Communication problem between ECM and gauge. Stop engine, remove tether cord cap (DESS key). Wait a few minutes, then start engine. If problem persists, contact an authorized SKI-DOO dealer.

PILOT LAMP(S) ON	BEEPER	MESSAGE DISPLAY ⁽¹⁾	DESCRIPTION
DESS	2 short beeps	—	Good key, vehicle ready to operate.
	2 short beeps, repeating slowly	CHECK KEY	Unable to read key (bad connection). Make sure the key is clean and correctly snapped on post.
	Short beeps repeating rapidly	BAD KEY	Invalid key or key not programmed. Use the proper key for the vehicle or have the programmed.
—	—	THROTTLE OPEN	Throttle applied while attempting an engine start (engine cranks but won't run). Release throttle while starting.
—	—	DROWN MODE	Throttle wide open while attempting an engine start (engine cranks but won't run). Release throttle while starting.

⁽¹⁾ 50th anniversary, X and Limited package only.

How to Read Fault Codes

Multifunction Analog/Digital Display Only

Press and hold MODE (M) Button and simultaneously depress the HI/LOW beam switch repeatedly several times.

If two or more codes are registered, use SET (S) or MODE (M) to scroll.

To exit the fault codes mode, press and hold MODE (M) Button.

Contact an authorized SKI-DOO dealer for code signification.

WARRANTY

BRP LIMITED WARRANTY USA AND CANADA: 2009 SKI-DOO® SNOWMOBILES

1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")* warrants its 2009 Ski-Doo snowmobiles sold by authorized BRP dealers (as hereinafter defined) in the fifty United States and 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 snowmobile was used for racing or any other competitive activity, at any point, even by a previous owner; or
2. The snowmobile 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.

All genuine Ski-Doo parts and accessories, installed by an authorized BRP dealer at the time of delivery of the 2009 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

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 BRP dealer;

- Damage caused by abuse, abnormal use, neglect, use of the product on surfaces other than snow, or operation of the product in a manner inconsistent with the recommended operation described in the 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);
- Snow or water 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; and
- Damage resulting from studs installed on tracks if the installation does not conform to BRP's instructions.

4) WARRANTY COVERAGE PERIOD

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

TWELVE (12) CONSECUTIVE MONTHS, for private or commercial use owners. However, the warranty coverage period on a snowmobile delivered between June 1st and December 1st of a given year will expire November 30th of the following year.

The emission-related components included in the chart below, that are installed on EPA certified snowmobiles (see list below) registered in the USA are covered for thirty (30) consecutive months or 2500 miles (4000 km) of engine use whichever occurs first. If the 2500 miles (4000 km) are reached during the regular warranty coverage period, the emission-related components are still covered by BRP's standard warranty until the end of regular coverage period.

The SKI-DOO engines are all EPA certified. Refer to the following table for details regarding the emission related components covered by the EPA.

EMISSION-RELATED COMPONENTS	600 HO E-TEC	1200 4-TEC
RAVE Hose System	X	
Throttle Position Sensor (TPS)	X	X
Air Temperature Sensor (ATS)	X	X
Air Pressure Sensor (APS)	X	X
Knock Sensor	X	
Coolant Temperature Sensor (CTS)		X
Fuel Pressure Regulator	X	X
Fuel Injectors	X	X
Engine Management System (EMS)	X	X
Throttle Body Shaft Seal		X
Muffler Temperature Sensor	X	
Throttle Body Air Intake Adapter	X	X
Reed Valve	X	
Temperature and Manifold Pressure Sensor (TMAPS)		X

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 2009 Ski-Doo snowmobile must be purchased as new and unused by its first owner from a BRP dealer authorized to distribute Ski-Doo snowmobiles in the country in which the sale occurred ("BRP dealer");
- The BRP specified pre-delivery inspection process must be completed and documented;
- The product must have undergone proper registration by an authorized BRP dealer;
- The 2009 Ski-Doo snowmobile 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 the preceding conditions have 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 snowmobile upon the appearance of an anomaly. The customer must notify a servicing BRP dealer within two (2) 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 Ski-Doo parts without charge for parts and labor, at any authorized BRP dealer during the warranty coverage period under the conditions described herein. BRP's responsibility is limited to making the required repairs or replacements of parts. No claim of breach of warranty shall be cause for cancellation or rescission of the sale of the snowmobile 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) 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.

9) 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.

SKI-DOO

Customer Assistance Center

75, J.-A. Bombardier Street

Sherbrooke, Québec J1L 1W3

Tel.: 819 566-3366

In USA

BRP US INC.

SKI-DOO

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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BRP INTERNATIONAL LIMITED WARRANTY: 2009 SKI-DOO® SNOWMOBILES

1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")* warrants its 2009 Ski-Doo snowmobiles sold by authorized BRP distributor/dealer (as hereinafter defined) outside of the fifty United States, Canada and states members of the European Economic Area ("EEA") (which is comprised of the states member of the European Union plus Norway, Iceland and Liechtenstein) 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 snowmobile was used for racing or any other competitive activity, at any point, even by a previous owner; or
2. The snowmobile 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.

All genuine Ski-Doo parts and accessories, installed by an authorized BRP distributor/dealer at the time of delivery of the 2009 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

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 distributor/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 BRP distributor/dealer;
- Damage caused by abuse, abnormal use, neglect, use of the product on surfaces other than snow, or operation of the product in a manner inconsistent with the recommended operation described in the 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);
- Snow or water 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; and
- Damage resulting from studs installed on tracks if the installation does not conform to BRP's instructions.

4) WARRANTY COVERAGE PERIOD

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

TWELVE (12) CONSECUTIVE MONTHS, for private or commercial use owners. However, the warranty coverage period on a snowmobile delivered between June 1st and December 1st of a given year will expire November 30th of the following year.

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.

Note that the duration and any other modalities of the warranty coverage are subject to the applicable national or local legislation in the customer's country.

5) CONDITIONS TO HAVE WARRANTY COVERAGE

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

- The 2009 Ski-Doo snowmobile must be purchased as new and unused by its first owner from a BRP distributor/dealer authorized to distribute Ski-Doo snowmobiles in the country in which the sale occurred ("BRP distributor/dealer");
- The BRP specified pre-delivery inspection process must be completed and documented;
- The product must have undergone proper registration by an authorized BRP distributor/dealer;
- The 2009 Ski-Doo snowmobile 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 honour this limited warranty to any private use owner or commercial use owner if the preceding conditions have 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 snowmobile upon the appearance of an anomaly. The customer must notify a servicing BRP distributor/dealer within two (2) 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 distributor/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.

Note that the notification period is subject to the applicable national or local legislation in customer's country.

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 Ski-Doo parts without charge for parts and labor, at any authorized BRP distributor/dealer during the warranty coverage period under the conditions described herein. BRP's responsibility is limited to making the required repairs or replacements of parts. No claim of breach of warranty shall be cause for cancellation or rescission of the sale of the snowmobile 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) 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 BRP or an authorized BRP distributor/dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the co-ordinates of the new owner.

9) 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 distributor/dealer's service manager or owner. If further assistance is required, the distributor's service department should be contacted in order to resolve the matter. If the matter still remains unresolved then contact BRP at the address listed below.

For countries within Europe, Middle East, Africa, Russia & CIS, please contact our European office:

BRP EUROPE N.V.

Customer Assistance Center
Skaldenstraat 125
9042 Gent
Belgium
Tel.: + 32-9-218-26-00

For Scandinavian countries, please contact our Finland office:

BRP FINLAND OY

Service Department
Ahjotie 30
Fin-96320 Rovaniemi
Finland
Tel.: + 358 16 3208 111

For all other countries, please contact your local distributor or our North America office:

BOMBARDIER RECREATIONAL PRODUCTS INC.

Customer Assistance Center
75, J.-A. Bombardier Street
Sherbrooke, Québec J1L 1W3
Tel.: 819 566-3366

You will find your distributor's coordinates on www.brp.com.

* In certain countries, products are distributed and serviced by affiliates or subsidiaries of BRP.

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BRP LIMITED WARRANTY FOR THE EUROPEAN ECONOMIC AREA: 2009 SKI-DOO® SNOWMOBILES

1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")* warrants its 2009 Ski-Doo snowmobiles sold by authorized BRP distributor/dealer (as hereinafter defined) in states members of the European Economic Area ("EEA") (which is comprised of the states member of the European Union plus Norway, Iceland and Liechtenstein) 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 snowmobile was used for racing or any other competitive activity, at any point, even by a previous owner; or
2. The snowmobile 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.

All genuine Ski-Doo parts and accessories, installed by an authorized BRP distributor/dealer (at the time of delivery of the 2009 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

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 JURISDICTIONS 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 COUNTRY TO COUNTRY, OR PROVINCE TO PROVINCE.

Neither the distributor, any BRP distributor/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 BRP distributor/dealer;
- Damage caused by abuse, abnormal use, neglect, use of the product on surfaces other than snow, or operation of the product in a manner inconsistent with the recommended operation described in the 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);
- Snow or water 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; and
- Damage resulting from studs installed on tracks if the installation does not conform to BRP's instructions.

4) WARRANTY COVERAGE PERIOD

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

TWENTY-FOUR (24) CONSECUTIVE MONTHS for private use owners, and TWELVE (12) CONSECUTIVE MONTHS for commercial use owners. However, the warranty coverage period on a snowmobile delivered between June 1st and December 1st of a given year will expire November 30th of the applicable year. A snowmobile is used commercially when it is used in connection with generating income or any work or employment during any part of the warranty period. A snowmobile is also used commercially when, at any point during the warranty period, it has commercial tags or is licensed for commercial use.

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.

Note that the duration and any other modalities of the warranty coverage are subject to the applicable national or local legislation in the customer's country.

5) CONDITIONS TO HAVE WARRANTY COVERAGE

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

- The 2009 Ski-Doo snowmobile must be purchased as new and unused by its first owner from a BRP distributor/dealer authorized to distribute Ski-Doo products in the country in which the sale occurred ("BRP distributor/dealer");
- The BRP specified pre-delivery inspection process must be completed and documented;
- The product must have undergone proper registration by an authorized BRP distributor/dealer;

- The 2009 Ski-Doo snowmobile must be purchased within the EEA;
- 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 honour this limited warranty to any private use owner or commercial use owner if the preceding conditions have 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 snowmobile upon the appearance of an anomaly. The customer must notify a servicing BRP distributor/dealer within two (2) months 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 distributor/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.

Note that the notification period is subject to the applicable national or local legislation in customer's country.

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 Ski-Doo parts without charge for parts and labor, at any authorized BRP distributor/dealer during the warranty coverage period under the conditions described herein. BRP's responsibility is limited to making the required repairs or replacements of parts. No claim of breach of warranty shall be cause for cancellation or rescission of the sale of the snowmobile to the owner.

In the event that service is required outside of the EEA, 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) 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 BRP or an authorized BRP distributor/dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the co-ordinates of the new owner.

9) 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 distributor/dealer's service manager or owner. If further assistance is required, the distributor's service department should be contacted in order to resolve the matter. If the matter still remains unresolved then contact BRP at the address listed below:

For countries within Europe, Middle East, Africa, Russia & CIS, please contact our European office:

BRP EUROPE N.V.

Customer Assistance Center
Skaldenstraat 125
9042 Gent
Belgium
Tel.: + 32-9-218-26-00

For Scandinavian countries, please contact our Finland office:

BRP FINLAND OY

Service Department
Ahjotie 30
Fin-96320 Rovaniemi
Finland
Tel.: + 358 16 3208 111

For all other countries, please contact your local distributor or our North America office:

BOMBARDIER RECREATIONAL PRODUCTS INC.

Customer Assistance Center
75, J.-A. Bombardier Street
Sherbrooke, Québec J1L 1W3
Tel.: 819 566-3366

You will find your distributor's coordinates on www.brp.com.

* In the EEA, products are distributed and serviced by BRP European Distribution S.A. and other affiliates or subsidiaries of BRP.

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PRIVACY OBLIGATION/DISCLAIMER

We wish to inform you that your coordinates will be used for safety and warranty purposes. Sometimes, we also use the coordinates of our clients to inform them about our products and to present them offers. Should you prefer not to receive information on our products, services and offers, please let us know by writing to the address below.

Also note that, from time to time, carefully selected and trustworthy organizations may be permitted to use the coordinates of our clients to promote quality products and services. If you prefer not to have your name and address released, please let us know by writing to the address below:

In Canada

BOMBARDIER RECREATIONAL PRODUCTS INC.

Warranty Department
75, J.-A. Bombardier Street
Sherbrooke, Québec J1L 1W3
Fax Number: 819 566-3590

In USA

BRP US INC.

Warranty Department
7575 Bombardier Court
Wausau WI 54401
Tel.: 715 848-4957

For Russia, CIS and the Middle East

BRP EUROPEAN DISTRIBUTION

After Sales Service Department
Chemin de Messidor 5-7
1006 Lausanne
Switzerland
Fax Number: + 41213187801

For Scandinavian and European countries

BRP FINLAND OY

Service Department
Ahjotie 30
FIN-96320 Rovaniemi
Finland
Tel.: + 358 16 3208 111

For all other countries, please contact A) or B)

A) Your respective distributor (you will find his coordinates on www.brp.com).

B) Our North American office:

BOMBARDIER RECREATIONAL PRODUCTS INC.

Warranty Department
75, J.-A. Bombardier Street
Sherbrooke, Québec J1L 1W3
Canada
Fax Number: 819 566-3590

CHANGE OF ADDRESS/OWNERSHIP

If your address has changed or if you are the new owner of the vehicle, be sure to notify BRP by either:

- Mailing one of the following card below;
- **North America Only:** calling at 715 848-4957 (USA) or 819 566-3366 (Canada);
- Notifying an authorized SKI-DOO dealer.

In Canada

BOMBARDIER RECREATIONAL PRODUCTS INC.

Warranty Department
75, J.-A. Bombardier Street
Sherbrooke, Québec J1L 1W3
Fax Number: 819 566-3590

In USA

BRP US INC.

Warranty Department
7575 Bombardier Court
Wausau WI 54401
Tel.: 715 848-4957

For Russia, CIS and the Middle East

BRP EUROPEAN DISTRIBUTION

After Sales Service Department
Chemin de Messidor 5-7
1006 Lausanne
Switzerland
Fax Number: + 41213187801

For Scandinavian and European countries

BRP FINLAND OY

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FIN-96320 Rovaniemi
Finland
Tel.: + 358 16 3208 111

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A) Your respective distributor (you will find his coordinates on www.brp.com).

B) Our North American office:

BOMBARDIER RECREATIONAL PRODUCTS INC.

Warranty Department
75, J.-A. Bombardier Street
Sherbrooke, Québec J1L 1W3
Canada
Fax Number: 819 566-3590

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 vehicle owner if necessary, like when safety recalls are initiated. It is the owner's responsibility to notify BRP.

STOLEN UNITS: If your personal vehicle is stolen, you should notify BRP or an authorized SKI-DOO dealer. We will ask you to provide your name, address, phone number, the vehicle identification number and the date it was stolen.

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

V00A2F



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CA

OPERATOR'S GUIDE, REV-XR / ENGLISH
GUIDE DU CONDUCTEUR, REV-XR / ANGLAIS

FAIT AU / MADE IN CANADA

U/M:P.C.