

# *ski-doo*<sup>®</sup>



# 2010

## OPERATOR'S GUIDE

Includes  
Safety, Vehicle  
and Maintenance Information

# EXPEDITION™ TUV SERIES

 **WARNING**

Read this guide thoroughly.  
It contains important safety information.  
Minimum recommended operator's age: 16 years old.  
Keep this Operator's Guide in 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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In Canada, products are distributed by Bombardier Recreational Products Inc.

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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 injured or killed, read the following sections before you operate the vehicle:

- SAFETY INFORMATION
- VEHICLE INFORMATION.

Also read all safety labels on your snowmobile and watch your *SAFETY DVD*.

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


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

## Safety Messages

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

### **WARNING**

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

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

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

## About this Operator's Guide

This Operator's Guide has been prepared to acquaint the owner/operator 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.

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

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

If you want to view and/or print an extra copy of your Operator's Guide, simply visit the following website [www.operatorsguide.brp.com](http://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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# ***SAFETY INFORMATION***

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# 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.

Do not stud the track on this model.

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

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## SPECIAL SAFETY MESSAGES

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

- Always make a pre-ride inspection **BEFORE** you start the engine.
- Throttle mechanism should be checked for free movement and return to idle position before starting 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.
- Always engage parking brake before starting the engine.
- Everyone is a beginner the first time he sits behind the controls of a snowmobile regardless of previous experience in driving any other type of vehicle. The safe use of your snowmobile depends 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.
- Any new operator must read and understand all safety labels on the snowmobile, the Operator's Guide and watch the *SAFETY DVD* before operating the snowmobile. Only allow a new operator to operate the snowmobile in a restricted flat area — at least until he is completely familiar with its operation. If snowmobile operator training course is offered in your area, 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 this vehicle under influence of alcohol or drugs. They slow reaction time and impair judgement.
- Your snowmobile is not designed to be operated on public streets, roads or high-ways.
- 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.
- 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 safety 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.
- 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.
- 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.
- In an emergency, the snowmobile engine can be stopped by pressing down on the engine stop switch or by pulling the tether cord cap (D.E.S.S.™ key).
- 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 charge or boost a battery while installed on snowmobile.
- Ensure the path behind is clear of obstacles or bystanders before proceeding in reverse.
- Always remove the tether cord cap (D.E.S.S. 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. 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. At speed, a studded track that has not been approved for studs could tear and separate from vehicle.
- Never ride as a passenger unless the snowmobile is equipped with a passenger seat and passenger handholds or holding strap. 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.

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# 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.

## Before Starting the Engine

1. Remove snow and ice from body including lights, seat, footrests, controls and instruments.
2. Verify that air silencer prefilter is free of snow.

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 if necessary and see an authorized Ski-Doo dealer in case of any leaks.
5. 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.
6. Activate the throttle control lever several times to check that it operates easily and smoothly. It must return to idle position when released.
7. Activate the brake lever and make sure the brake fully applies before the brake control lever touches the handlebar grip. It must fully return when released.
8. Apply parking brake and check if it operates properly. Leave parking brake applied.

## After Engine is Started

For proper engine starting procedure, refer to the appropriate *ENGINE STARTING PROCEDURE* section.

1. Check headlights high beam and low beam, taillight, stop light and pilot lamps operation.
2. Check D.E.S.S. key (tether cord cap) and engine stop switch operation.
3. Release parking brake.
4. Refer to the *WARM UP* section and follow instructions.

**Pre-ride Check List**

ITEM	OPERATION	✓
Body including seat, footrests, lights, air filter, controls and instruments	Check condition and remove snow or ice.	
Skis and steering	Check for free movement and proper action.	
Fuel and oil	Check for proper level and leaks.	
Storage compartment	Check for proper latching and no heavy or breakable objects.	
Throttle lever	Check for proper action.	
Brake lever	Check for proper action.	
Parking device	Check for proper action.	
Engine stop switch, D.E.S.S. key (tether cord cap) and lights	Check for 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 apparels 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 light bulbs
- Tool kit
- Knife
- Flashlight

- Colored lens goggles
- Trail map.

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 handholds 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 handholds 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.



mme2008-003-005

## 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. Before 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 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!

# IMPORTANT ON-PRODUCT LABELS


## Hang Tag

**VEHICLE ENGINE DESCRIPTION:**  
XXXXX

**EPA CERTIFIED**

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

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



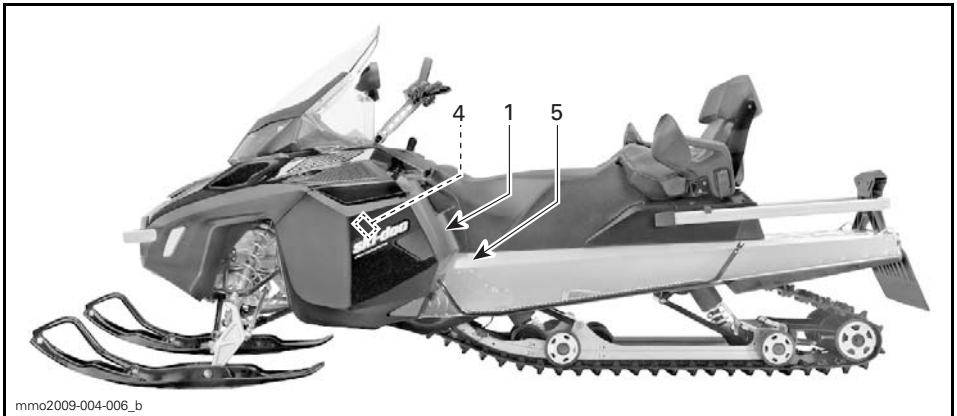
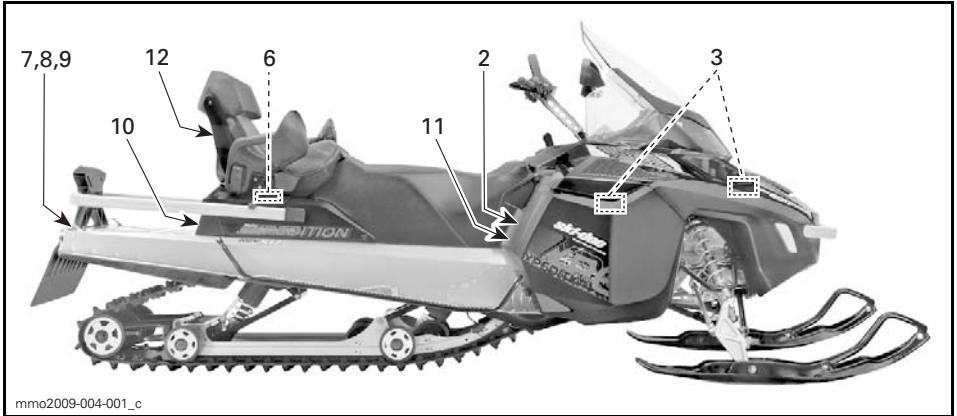
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vmo2006-005-009\_en

## Vehicle Safety Labels

The following labels are on your vehicle and they should be considered permanent parts of the vehicle. If missing or damaged, the decals can be replaced free of charge. See an authorized SKI-DOO dealer.

**NOTE:** The following illustrations used in this Operator's Guide are a general representation only. Your model may differ.





**⚠ WARNING**

- Read and understand all warning labels and operator's guide before operation. 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.




ALL DRIVERS AND PASSENGERS MUST READ THE FOLLOWING:

Avoid surprises!  
BE ON THE LOOK-OUT for the unexpected.  
Operate defensively.

- Scan constantly for people, objects, conditions and upcoming vehicles.
- Avoid thin ice / open water.
- Use extra caution whenever off-trail.

ALWAYS wear a DOT approved HELMET and clothing appropriate for snowmobiling.

NEVER ride after consuming alcohol or drugs even as a passenger.

mmo2009-004-002\_en

**INSTRUCTION 1**

**⚠ WARNING**

**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 faling.

This vehicle is designed for one (1) operator and as many passengers as there are seats with straps or handgrips installed on the vehicle conforming to SSCC standards.

**When riding with a passenger :**

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

**REMEMBER : YOU ARE RESPONSIBLE FOR THE SAFETY OF YOUR PASSENGER!**

mmo2009-004-003\_en

**INSTRUCTION 2**

**⚠ WARNING**

Beware of **HOT** parts!

**⚠ AVERTISSEMENT**

Attention aux pièces **CHAUDES!**

516002664

A33A2GA

**INSTRUCTION 3**

**⚠ 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

A33A2FA

**INSTRUCTION 4**

**⚠ WARNING / AVERTISSEMENT**

This guard must ALWAYS be in place when engine is running.	Ce garde doit TOUJOURS être en place lorsque le moteur fonctionne.
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mmo2009-004-007

**INSTRUCTION 5**

**⚠ WARNING**

- Never sit on this surface.
- Never carry cargo directly on this surface.
- Always use the BRP rack to carry cargo.

mmo2009-004-008\_en

**INSTRUCTION 6**

**⚠ WARNING**

- NEVER STAND BEHIND or near a rotating track.
- Only spin track at lowest possible speed whenever off the ground. Broken track or debris could be projected with great force which could sever legs or cause other serious injuries.

mmo2009-004-009\_en

**INSTRUCTION 7**

**⚠ WARNING**

EITHER CARRYING OR TOWING A LOAD MAY AFFECT STEERING CONTROL AND BRAKING ABILITY

<b>CARRYING</b> - Never sit nor exceed maximum load capacity in cargo area. CARGO LOAD: 30 kg / 66 lbs MAX.	<b>TOWING</b> - Always use a securely fastened rigid tow bar. - Always reduce your speed. - Never exceed the following limits: DRAWBAR: 500 N / 112 lb MAX. VERTICAL LOAD: 100N / 10 kg / 22 lbs MAX.
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mmo2009-004-011\_en

INSTRUCTION 8

**⚠ WARNING**



mmo2009-004-010\_en

INSTRUCTION 9

**⚠ WARNING**

In order to reduce risk of injuries, always correctly lock seat on its support using latch and ensure storage compartment under seat is locked before using vehicle.

**INSTRUCTION TO REMOVE PASSENGER SEAT:**  
Press on latch at rear of seat and lift up rear of seat to release it. Pull seat towards rear to release it from its slots.

**TO INSTALL PASSENGER SEAT:**  
Put seat on its support aligning J-hooks in their respective slots. Push seat firmly towards front to engage J-hooks. Push on rear of seat to lock latch.

mmo2009-004-005\_en

INSTRUCTION 10

**⚠ WARNING | ⚠ AVERTISSEMENT**



mmo2006-003-007\_a

INSTRUCTION 11 - EUROPEAN MODELS



mmo2009-004-012

INSTRUCTION 12

## Compliance Labels

### EPA Compliance Label

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

**RENSEIGNEMENTS SUR LE DISPOSITIF ANTIPOLLUTION**  
CE VÉHICULE EST CERTIFIÉ POUR FONCTIONNER À L'ESSENCE SANS PLOMB ET IL RÉPOND AUX NORMES [XXXX] DE L'ÉPA 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

IN ENGINE COMPARTMENT

### SSCC Label

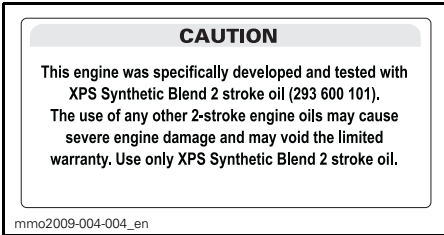
Safety standards for snowmobiles have been adopted by the Snowmobile Safety and Certification Committee (SSCC) of which BRP is a proud participating member. Assurance that your snowmobile meets these standards is easily checked by locating the Certification Label on a right vertical portion of the vehicle.

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

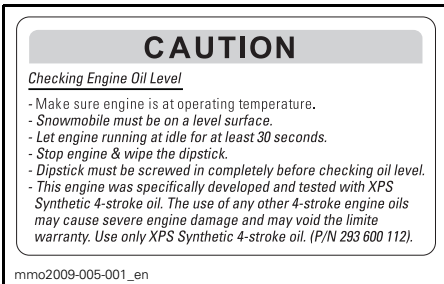


ON TUNNEL

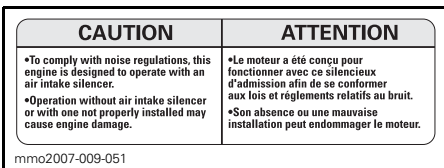
## Technical Information Label



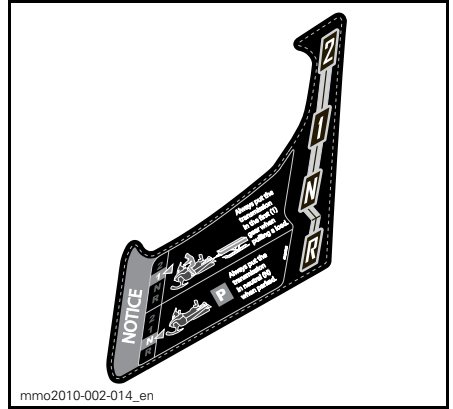
600 HO SDI MODEL - IN ENGINE COMPARTMENT



1200 4-TEC MODEL - IN ENGINE COMPARTMENT



IN ENGINE COMPARTMENT



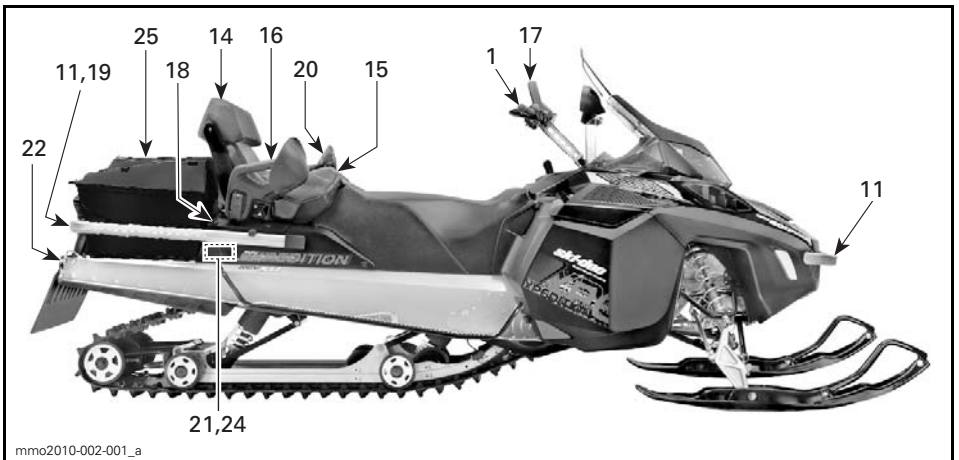
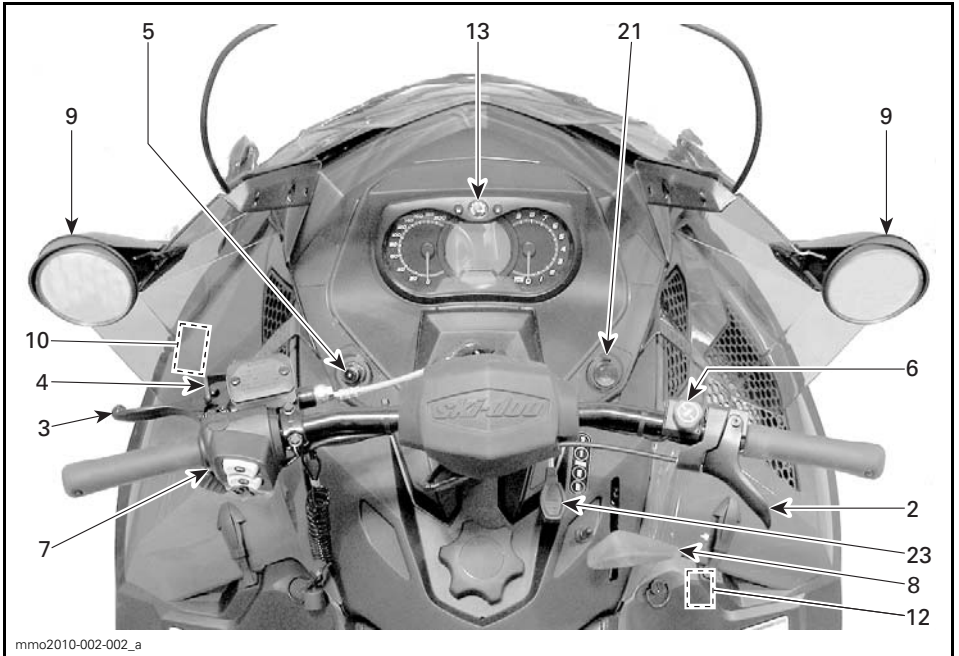
ON CONSOLE NEAR SHIFT LEVER



# ***VEHICLE INFORMATION***

# CONTROLS, INSTRUMENTS AND EQUIPMENT

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



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.

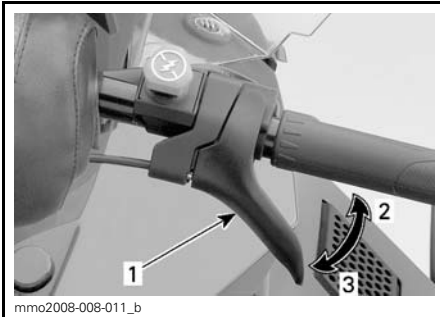
### **⚠ WARNING**

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

## 2) Throttle Lever

Throttle lever is located on the RH side of handlebar.

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



mmo2008-008-011\_b

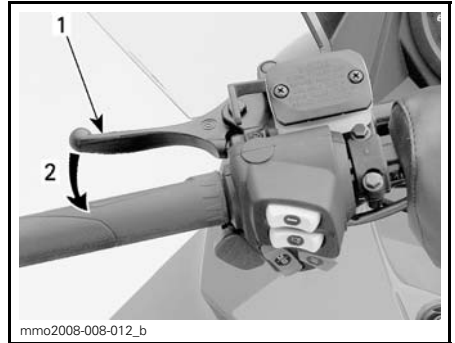
### TYPICAL

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.

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.



mmo2008-008-012\_b

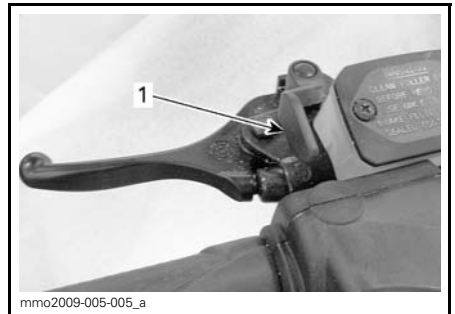
### TYPICAL

1. Brake lever
2. To apply brake

## 4) Parking Brake Lever

Parking brake is located on the LH side of handlebar.

Parking brake should be used whenever snowmobile is parked.



mmo2009-005-005\_a

### TYPICAL

1. Parking brake lever

## 3) Brake Lever

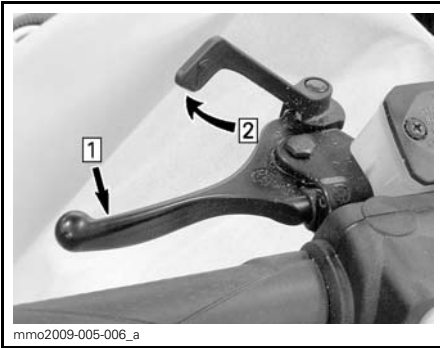
Brake lever is located on the LH side of handlebar.

**⚠ 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 Parking Brake**

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



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

**To Release Parking Brake**

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

**5) D.E.S.S. Post**

The D.E.S.S. post is located to on the LH side of console.

The D.E.S.S. key must be securely snapped on its post to allow vehicle operation.

**NOTE:** After engine starting, 2 short beeps should be heard if a programmed D.E.S.S. key is correctly snapped on post. If another beep code is heard, refer to *MONITORING SYSTEM* for D.E.S.S. malfunction codes information.

**⚠ WARNING**

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

Pulling the D.E.S.S. key off its post shuts the engine off.

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

The D.E.S.S. key (tether cord cap) 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.

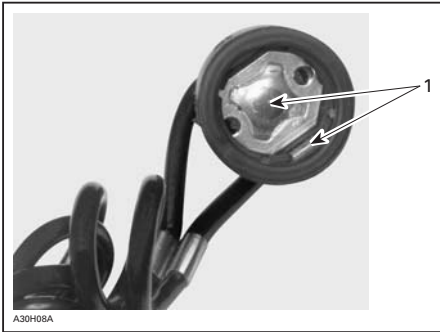
The D.E.S.S. key provided with your snowmobile contains an electronic chip which features a unique permanently memorized digital code.

Your authorized SKI-DOO dealer has programed the ECM (Engine Control Module) of your snowmobile to recognize the key and allow vehicle operation only with this key.

If another D.E.S.S. key was installed, the engine will start but will not reach drive pulley engagement speed to move vehicle.

Make sure the D.E.S.S. key is free of dirt or snow.



**D.E.S.S. KEY**

1. Free of dirt or snow

**Additional D.E.S.S. 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 D.E.S.S.-equipped SKI-DOO snowmobile, each can be programmed by your authorized SKI-DOO dealer to accept the other vehicles keys.

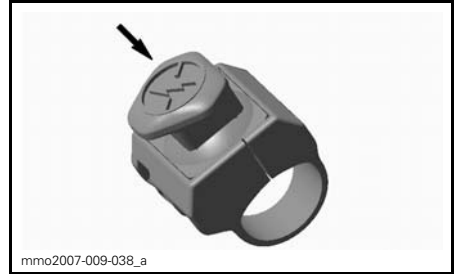
**D.E.S.S. Pilot Lamp Codes**

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

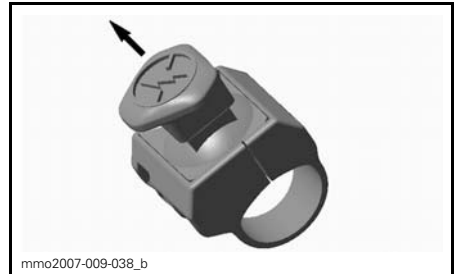
**6) Engine Stop Switch**

Engine stop switch is located on the RH side of handlebar.

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.

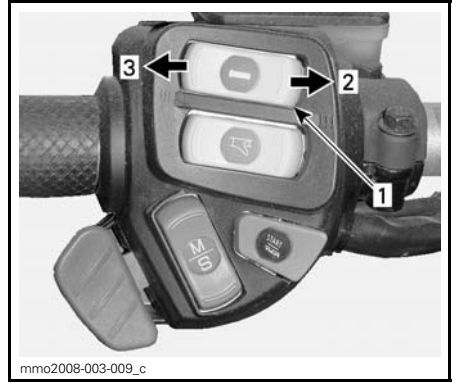
**7) Multifunction Switch**

Multifunction switch is located on the LH side of handlebar.



**TYPICAL**

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



**VARIABLE INTENSITY**

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

The heating intensity is displayed via the multifunction display.

**Start Button**

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

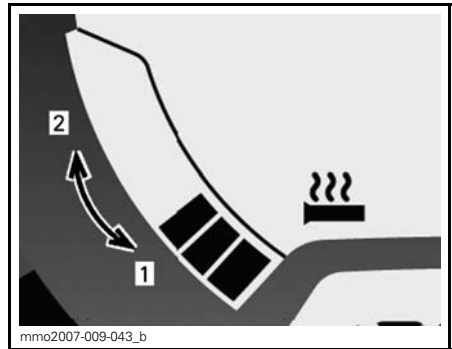
**Headlights Dimmer Switch**

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

**Heated Grips Switch**

**NOTE:** Heated grips are enabled above 1900 engine RPM.

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



**HEATING INTENSITY DISPLAY**

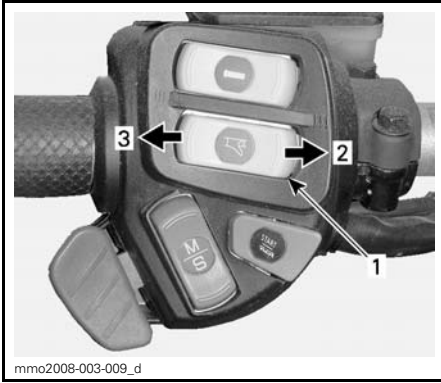
1. Less heat
2. More heat

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

**Heated Throttle Lever Switch**

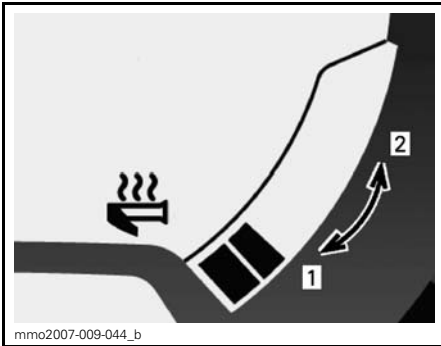
**NOTE:** Heated throttle lever is enabled above 1900 engine RPM.

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**

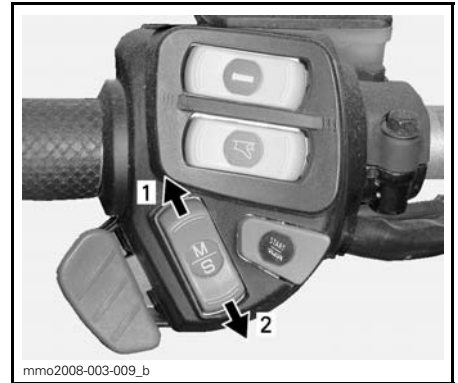
1. Less heat
2. More heat

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

**Mode/Set Button**

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) Gearshift Lever**

Use this lever to select gears. The gearbox has two forward gears, a reverse gear and a neutral.

Refer to *GEARBOX OPERATION* in *OPERATING INSTRUCTIONS* for details.

**NOTE:** It is necessary to push shift lever knob down to move it from neutral to reverse gear.

**9) Adjustable Mirrors**

Each mirror can be adjusted to suit driver's preference by gently rotating the mirror glass.

**⚠ WARNING**

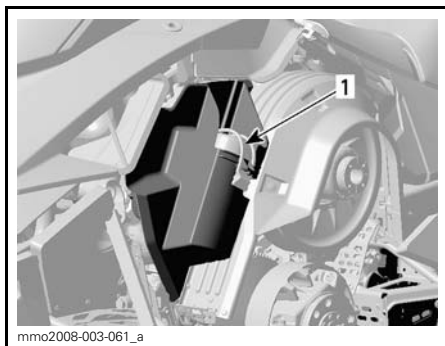
Adjust with vehicle at rest in a safe place.

## 10) 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.



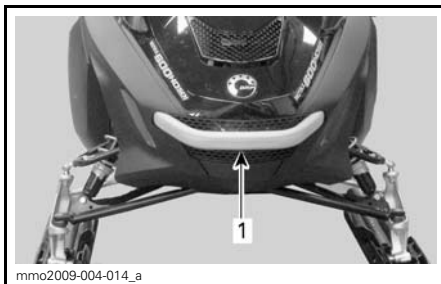
TYPICAL  
1. Tool kit

## 11) Grab Handles

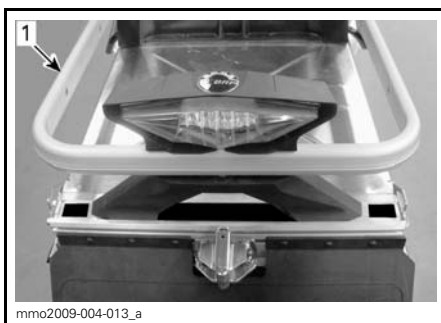
To be used whenever snowmobile requires manual lifting.

### **⚠ 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.



TYPICAL - FRONT  
1. Grab handle/bumper



REAR  
1. Grab handle/rack rail

**NOTICE** Do not use skis to pull or lift snowmobile.

## 12) Rewind Starter Handle

The rewind starter may be used if the electric starter does not operate.

To access the rewind starter handle, refer to *BODY* in *MAINTENANCE PROCEDURES* and:

- Remove the upper side panel.
- Open the RH lower side panel.



1. Rewind stator handle

To engage mechanism, pull handle slowly until a resistance is felt then pull vigorously. Slowly release handle.

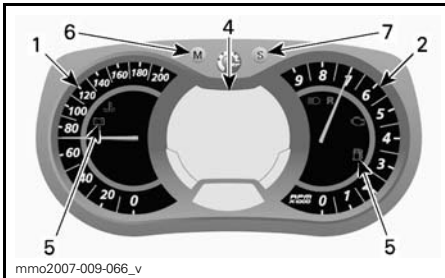
### 13) Gauge

#### **⚠ WARNING**

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

NOTE: In order to memorize settings, engine must be running.

#### *Multifunction Analog/Digital Gauge*



1. Speedometer
2. Tachometer
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 per hour or kilometers per hour 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 and Messages



*TYPICAL — PILOT LAMPS*

See table below for usual pilot lamps information. Refer to *MONITORING SYSTEM* for details on malfunction pilot lamps.

**NOTE:** Some of the listed pilot lamps and messages do not apply to all models.

PILOT LAMP(S) ON	BEEPER	MESSAGE DISPLAY (X AND LIMITED PACKAGE ONLY)	DESCRIPTION
	4 short beeps every 5 minutes	LOW OIL	Two stroke engine: Injection oil level is low. Stop vehicle in a safe place then, replenish injection oil reservoir.
			Four stroke engines: 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	Reverse is selected.
	3 short beeps	REV. FAIL	Reverse did not engage, try again.
	—	—	High beam headlights are selected.
	4 short beeps	ENGINE OVERHEAT	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.
—	—	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). Warm-up period may occur after a restart in very cold weather.

**MODE (M) Button**

Button use to navigate in gauge multi-function 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.

**Multifunction Digital Display**

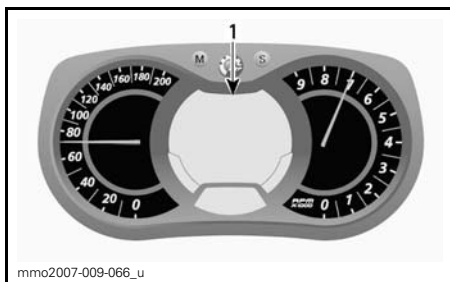
*Multifunction Analog/Digital Gauge Only*

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 which could lead to a collision or loss of control. 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

**NOTE:** Some of the listed display functions may not apply to your models. Some functions can be added to the gauge, contact an authorized Ski-Doo dealer.

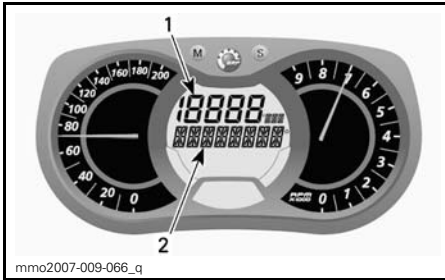
DISPLAY FEATURES	
FUNCTIONS	REFER TO TOPICS
Speedometer	A
Tachometer (RPM)	B
Odometer	C
Trip meter "A" or "B"	D
Trip hour meter	E
Clock	F
Fuel level	G
Altitude	H
Top speed	I
Average speed	J
Heated grips heating intensity	K
Heated throttle lever heating intensity	L
Instant fuel consumption	M
Total fuel consumption	N
Message display	O
Coolant temperature	P
Top RPM	Q
Lap record mode	R
Exhaust gas temperature	S
Throttle position display	T
Air control suspension	U
E-TEC engine storage mode	V

**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.





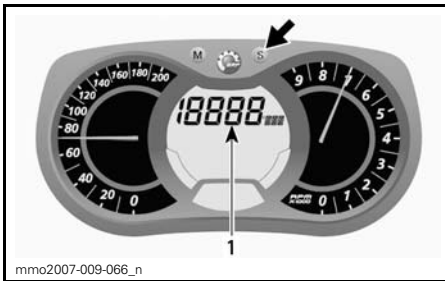
**MULTIFUNCTION DISPLAY**

1. Display 1
2. Display 2

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

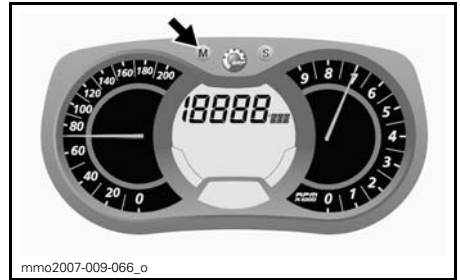


While display is flashing, press the SET (S) button to select speedometer mode.



1. Speedometer mode

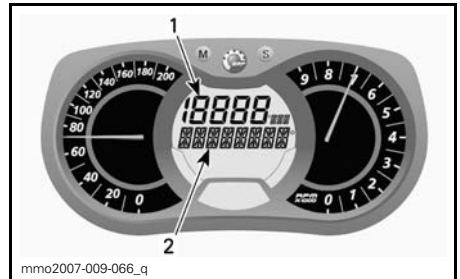
Press the MODE (M) button to confirm selection or wait 5 seconds.



**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.



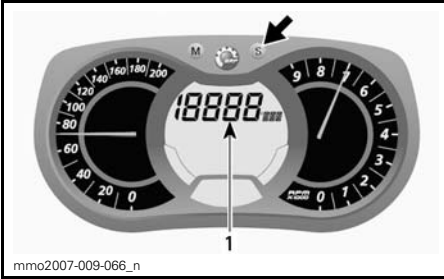
**MULTIFUNCTION DISPLAY**

1. Display 1
2. Display 2

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

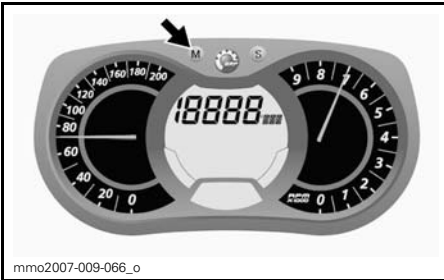


While display is flashing, press SET (S) button to select RPM mode.



1. RPM mode

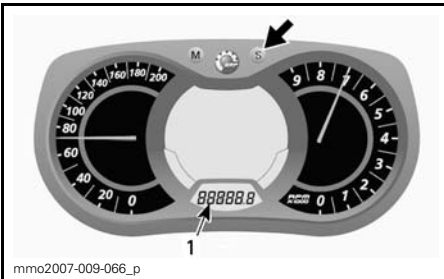
Press the MODE (M) button to confirm selection or wait 5 seconds.



### C) Odometer

Records the total distance travelled.

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

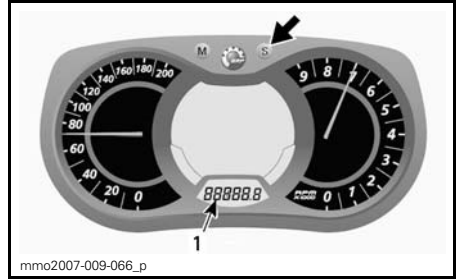


1. Odometer (km/mi) mode

### D) Trip Meter "A" or "B"

Trip meters records distance travelled since it has been reset.

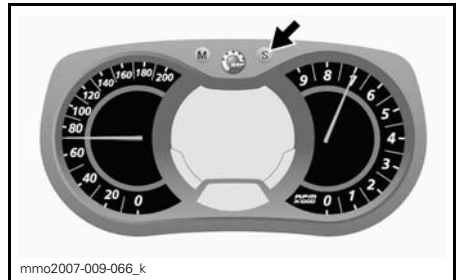
Press the SET (S) button to select trip meter (TRIP A/TRIP B) mode.



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

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

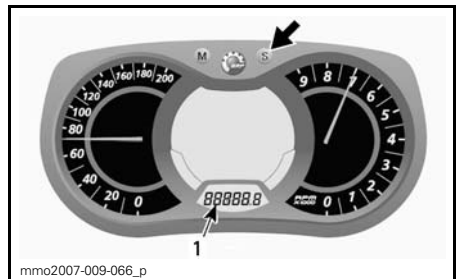
**NOTE:** On E-TEC models, resetting TRIP B mode will also reset TOTAL FUEL CONSUMPTION.



### E) Trip Hour Meter

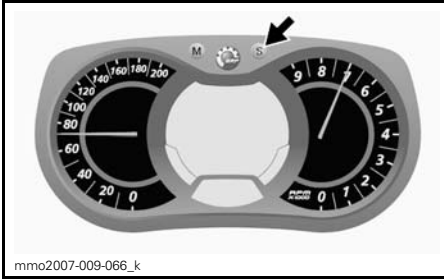
Records vehicle running time when the electrical system is activated since it has been reset.

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



1. Trip hour meter (HrTRIP) mode

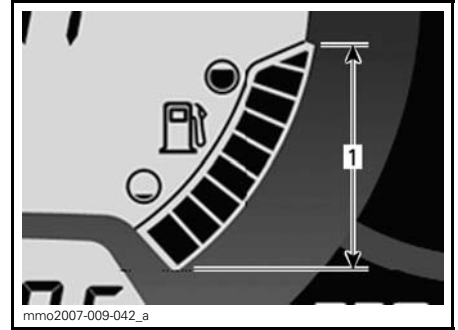
Press and hold the SET (S) button to reset.



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.



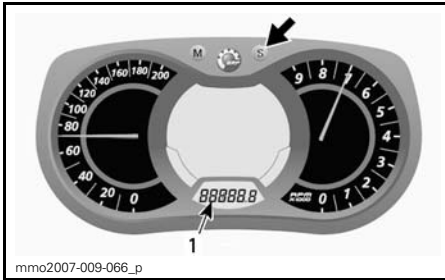
### FUEL LEVEL

1. Operating range

### F) Clock

#### Electric Start Models

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



1. Clock mode

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

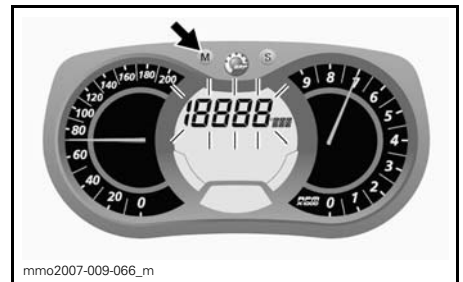
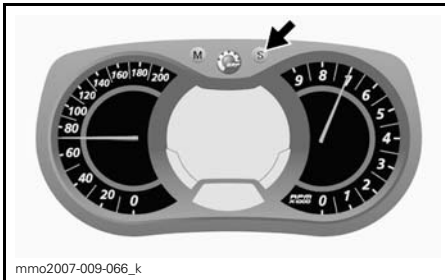
### H) Altitude

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.

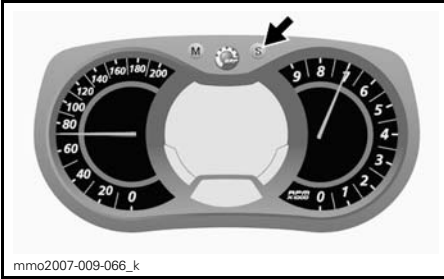
Press the MODE (M) button to select display 2.



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.

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

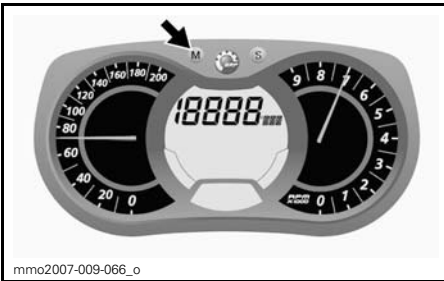


The following symbol appears when altitude mode is selected.



**ALTITUDE MODE**

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



**I) Top Speed**

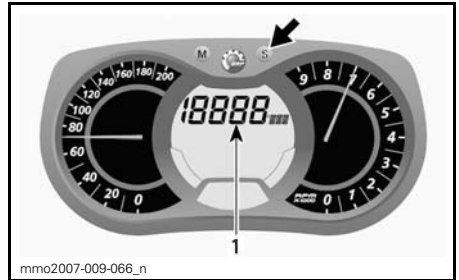
Records vehicle top speed since it has been reset.

To display vehicle top speed, proceed as follows.

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

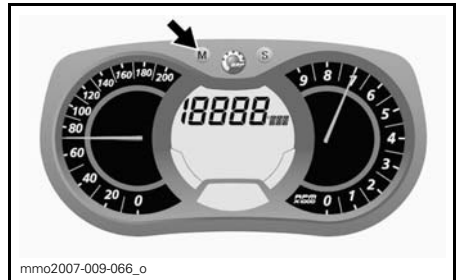


While display flashes, press the SET (S) button to select top speed (TOP\_SPD) mode.



**1. Top speed (TOP\_SPD) mode**

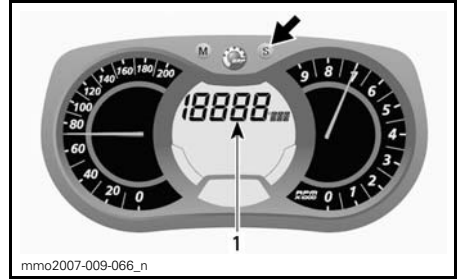
Press the MODE (M) button to confirm selection or wait 5 seconds.



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

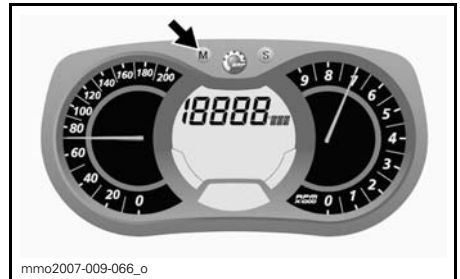
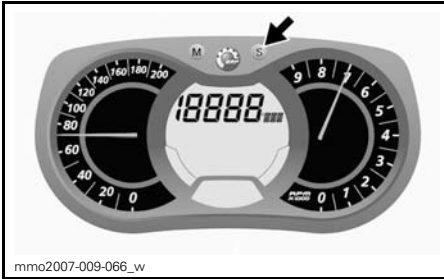


While display flashes, press and hold the SET (S) button within 5 seconds to reset.



1. Vehicle average speed (AVR\_SPD) mode

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



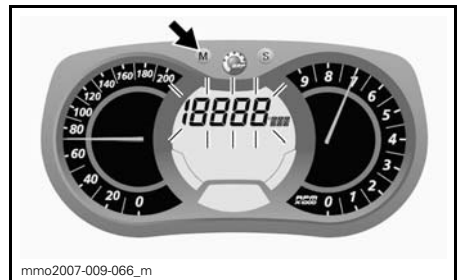
### J) Average Speed

Records vehicle average speed since it has been reset.

To display vehicle average speed, proceed as follows.

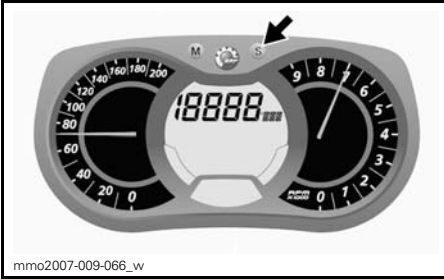
Press the MODE (M) button to select display 1.

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



While display flashes, press and hold the SET (S) button within 5 seconds to reset.

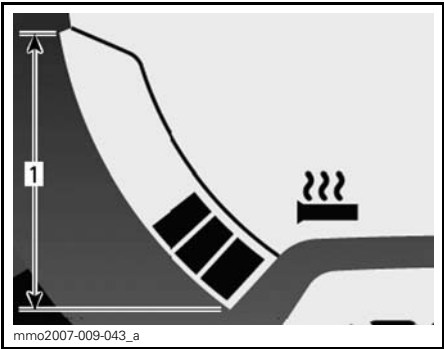
While display flashes, press SET (S) button to select vehicle average speed (AVR\_SPD) mode.



### K) Heated Grips Heating Intensity

Bar gauge that indicates heating intensity.

Refer to *HEATED GRIPS SWITCH* for more details.

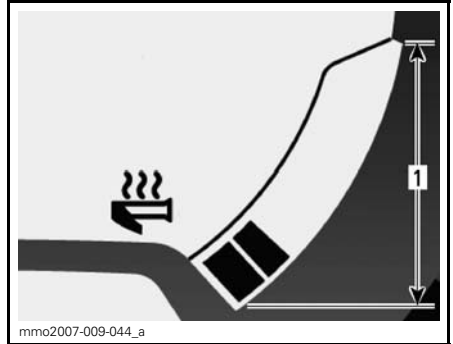


### L) Heated Throttle Lever Heating Intensity

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.



### M) Instant Fuel Consumption

Calculates vehicle average fuel consumption while riding.

To display vehicle average fuel consumption, proceed as follows.

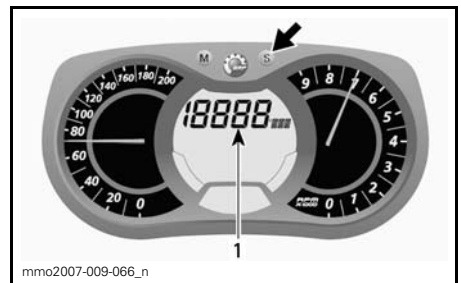
Press the MODE (M) button to select display 1.

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

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



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

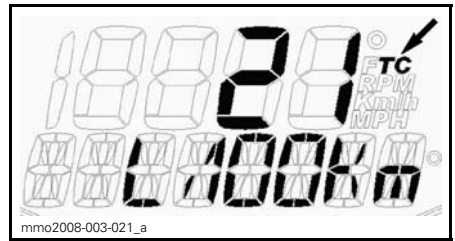


1. Instant fuel consumption mode

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



TC appears when the mode is selected.



TYPICAL

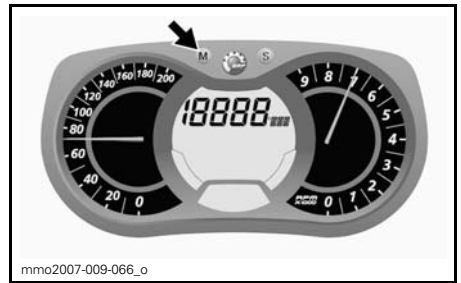
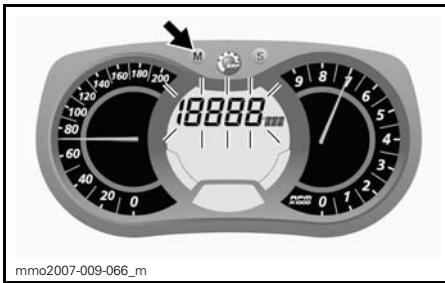
### N) Total Fuel Consumption

Records vehicle average fuel consumption since it has been reset.

To display vehicle total fuel consumption, proceed as follows.

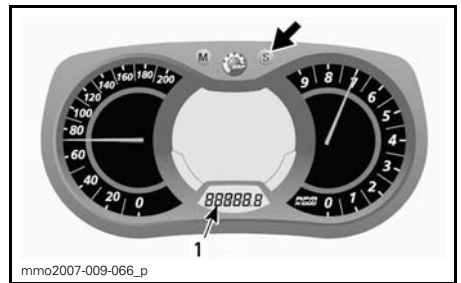
Press the MODE (M) button to select display.

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

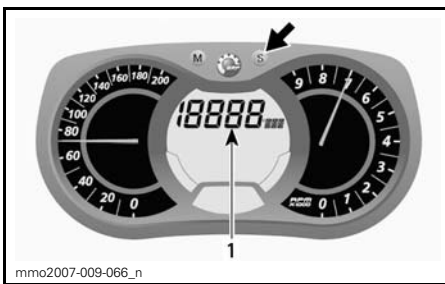


To reset, set the trip meter to TRIP B. Refer to *TRIP METER "A" OR "B"* for more details.

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

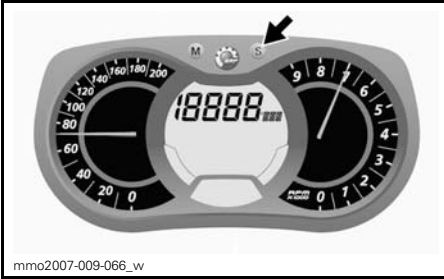


1. Trip meter (TRIP B) mode

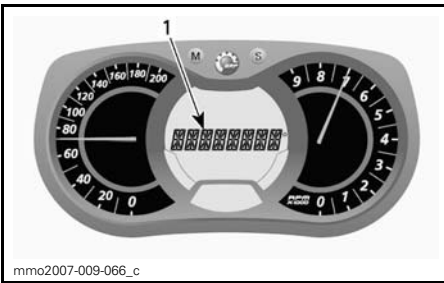


Press and hold the SET (S) button to reset.

1. Total fuel consumption (TC) mode



### O) Message Display



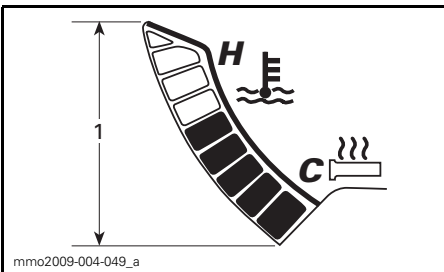
1. Message display

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

Refer to *MONITORING SYSTEM* for details on malfunction and D.E.S.S. related messages.

### P) Coolant Temperature

Bar gauge that continuously indicates the engine coolant temperature.



#### COOLANT TEMPERATURE

1. Range

### Q) Top RPM

Records engine top revolution per minute (RPM) since it has been reset.

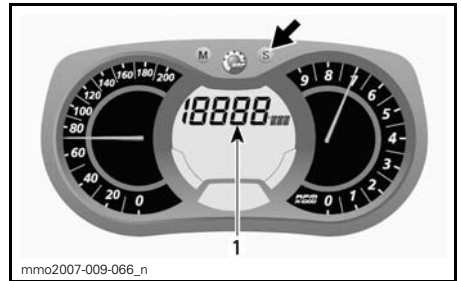
To display engine top revolution per minute, proceed as follows:

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



**NOTE:** Display will flash for approximately 5 seconds, then will return to the previously selected mode if display is not changed.

2. While display flashes, press the SET (S) button to scroll and select top RPM (TOP\_RPM) mode.



1. Top RPM (TOP\_RPM) mode

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

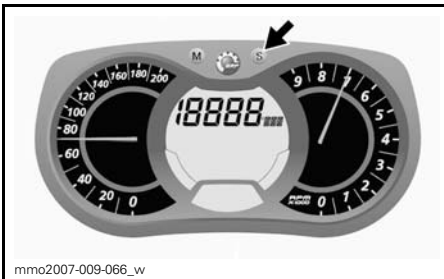




To reset, press the MODE (M) to select mode.



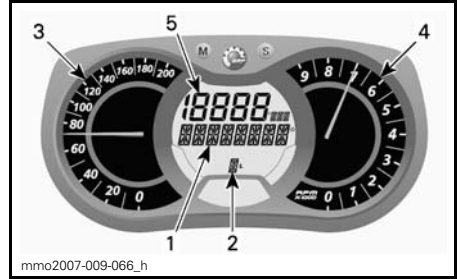
Press and hold the SET (S) button within 5 seconds to reset.



## R) Lap Record Mode

With this mode, vehicle speed, engine revolutions per minute (RPM) and a preselected function in display 1 can be recorded at the same time during a period of time defined by the operator.

Also, a possibility of nine (9) different sessions (laps) can be recorded for a maximum total of 2-1/2 minutes.



### LAP RECORD MODE

1. Lap record mode display
2. Sessions (laps)
3. Vehicle speed
4. Engine revolution per minute (RPM)
5. Preselected function

To Activate Lap Record Mode:

1. Press the SET (S) button to select the odometer mode in display 3.
2. Press and hold SET (S) button for 2 seconds to activate mode, REC will be displayed to indicate that record mode has been selected.

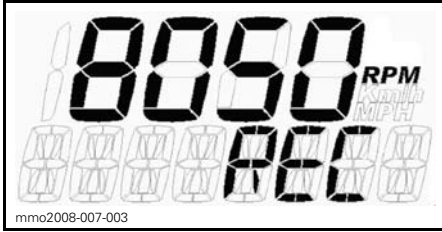


1. Record mode
2. Odometer
3. Press the SET (S) button to scroll between modes.

Available modes are: STOP, REC (record) or PLAY.

To Record:

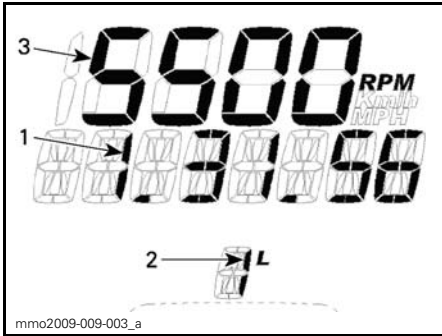
1. Select REC (record) mode.



RECORD MODE

2. Press the MODE (M) button to start recording.
3. While recording, press the MODE (M) button again each time you want to record a new lap time (from 1 to 9 laps).

Press the SET (S) button to stop recording.



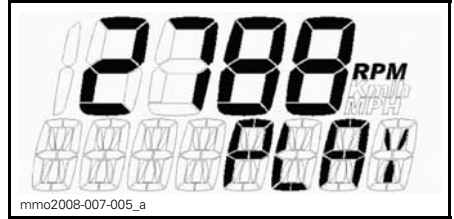
RECORD MODE

1. Recording time
2. Lap/session
3. Selected mode

To record another session, press the SET (S) button until REC (record) mode appears in display. Repeat same procedure previously described to record.

To review recorded data:

Select PLAY mode.



PLAY MODE

1. Press the MODE (M) button to play recorded data.

All recorded data (speedometer, tachometer and the preselected mode in display 1) will be displayed at the same time.

2. Press the SET (S) button to stop recorded lap OR press the MODE (M) button to switch to another recorded lap.

**NOTE:** Pressing the SET (S) button will stop time of the lap in progress, then the display will show the recorded time length of that lap and will switch automatically to the following recorded lap after 5 seconds.

At the end of all recorded laps, STOP will appear in display.

To review recorded data again, press the SET (S) button to return to PLAY mode. Repeat same procedure previously described to review.

To record other laps, press the SET (S) button to switch to REC (record) mode. Repeat same procedure previously described to record.

Press and hold SET (S) button for 5 seconds to exit the lap record mode, the previously selected mode will be displayed.

### S) Exhaust Gas Temperature

Displays real time exhaust gas temperature and records the maximum reading.

To display exhaust gas temperature, proceed as follows:

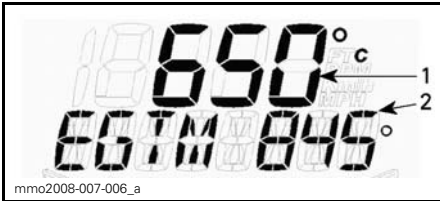
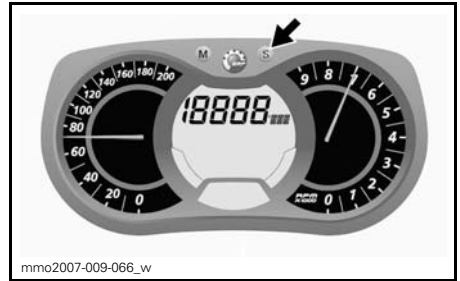
1. Press the MODE (M) button to select display.



**NOTE:** Display will flash for approximately 5 seconds, then will return to the previously selected mode if display is not changed.

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

2. While display flashes, press the SET (S) button to scroll and select exhaust gas temperature (EGTM) mode.



**EXHAUST GAS TEMPERATURE (EGTM) MODE**

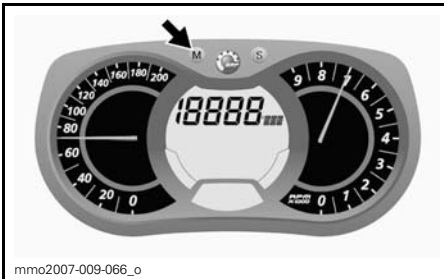
1. Current temperature
  2. Maximum temperature recorded
3. Press the MODE (M) button to confirm selection or wait 5 seconds.

**T) Throttle Position Display**

Displays real time throttle opening in percentage from approximately 0 to 100%.

To display throttle position, proceed as follows:

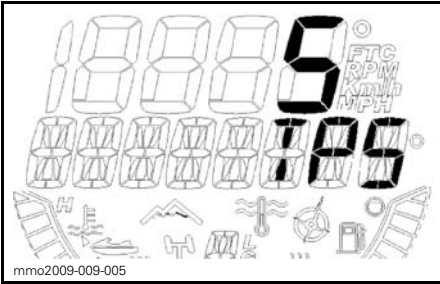
1. Press the MODE (M) button to select display.



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

**NOTE:** Display will flash for approximately 5 seconds, then will return to the previously selected mode if display is not changed.

2. While display flashes, press the SET (S) button to scroll and select throttle position (TPS) mode.



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



#### U) Air Control Suspension

Displays rear suspension air shock absorber set point and actual setting.

#### V) E-TEC Engine Storage Mode

Displays OIL when the storage mode procedure is initiated.

### 14) Backrest

A fixed backrest is installed on the passenger seat.

### 15) Passenger (1+1) Seat

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

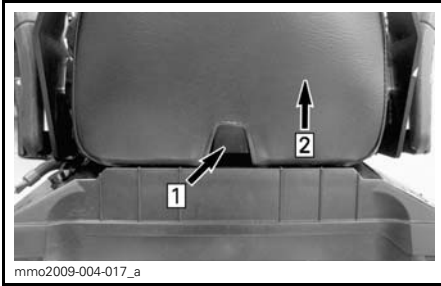
To remove the passenger seat, proceed as follows:

1. Disconnect the accessories connector by turning the plastic housing counterclockwise.

**NOTE:** The connector is located on the LH side of the storage compartment.



1. Accessories connector
2. Install the rubber plug on the connector.
3. Push the latch tab in and lift-up the rear of seat.



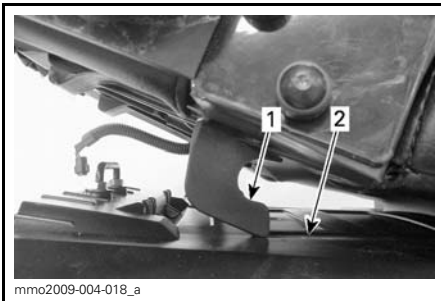
Step 1: Push tab  
Step 2: Lift rear of seat

- Slide seat rearward and set aside.

### Passenger Seat Installation

To install the passenger seat, proceed as follows:

- Place the passenger seat facing forward on the storage compartment lid.
- Slightly incline the passenger seat towards front and engage both seat hooks in the storage compartment lid slots.



- Seat hook
- Slot

- Push 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.

- Connect the accessories connector.

### 16) Passengers Handholds

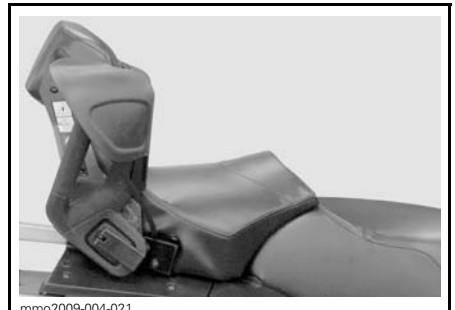
The handholds can be set at three different positions:



LOW



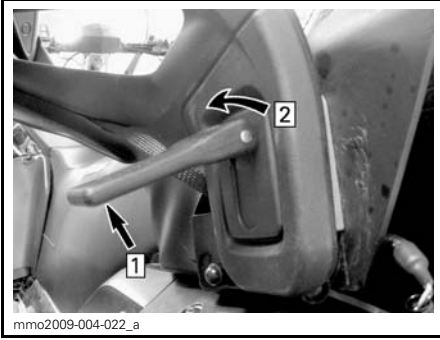
HIGH



UP

To set the handholds to the desired position, proceed as follows:

1. Pull up the knob and unscrew several turns until the handhold is free to move.



Step 1: Pull up  
Step 2: Unscrew

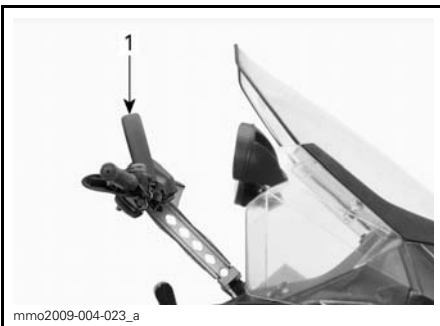
2. Refer to the decal located on the RH backrest bracket and guide the handhold to the desired position.

**NOTE:** The decal can also be seen in the *IMPORTANT ON-PRODUCT LABELS* section of this guide.

3. Screw the knob enough to obtain a suitable tension.
4. Lower knob to lock the handhold in place.

## 17) Mountain Strap

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



**TYPICAL**

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.

## 18) Storage Compartment

The storage compartment is located behind the driver's seat.

## **⚠ WARNING**

The storage compartment must be properly latched and must not contain any sharp, heavy or breakable objects.

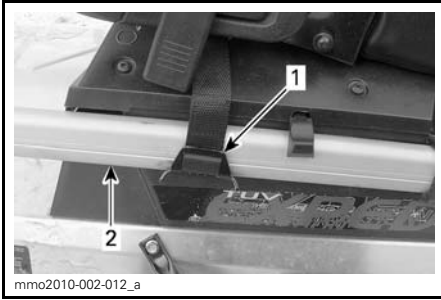
To open the lid, pull and hold the rubber tab sideways, then lift the RH side of the lid or passenger seat if installed.



Step 1: Pull rubber tab  
Step 2: Lift RH side

To close lid, simply push it down until it latches.

In addition, when passenger seat is installed, hook the retaining strap to the rear rack rail as shown.



1. Retaining strap
2. Rear rack rail

**⚠ CAUTION** When closing lid with the passenger seat installed, secure with the retaining strap.

## 19) Rear Rack

### **⚠ 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 30 kg (66 lb). Ride at very low speed when loaded. Avoid speed over bumps.

## 20) Passenger Heated Grip Switch

The switch is located on the LH passenger handhold.

Adjust heating intensity as shown.

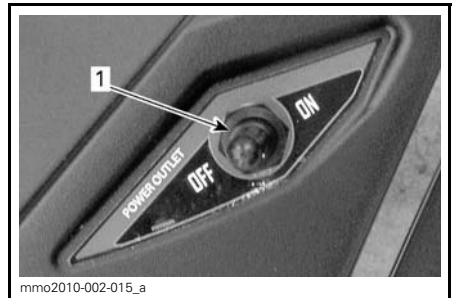


1. Off
2. Warm
3. Hot

## 21) 12-Volt Power Outlet

On all models, a 12-volt power outlet is installed at front, near steering column.

On Expedition™ TUV SE model an additional 12-volt power outlet is installed at rear in the storage compartment. The rear power outlet can be switched ON or OFF using a switch installed near steering column.



EXPEDITION TUV SE

1. Rear 12-volt outlet switch

A 12-volt electric appliance may be connected to that jack connector.

## 22) Hitch

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

When attaching any accessory, always refer to the manufacturer's recommendations.

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

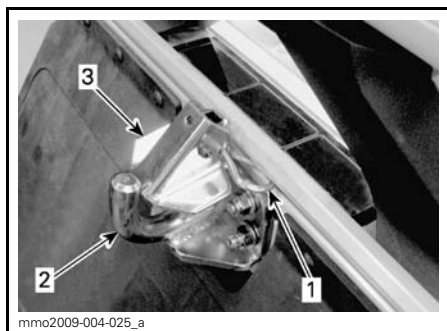
**⚠ WARNING**

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.

**J-Type Hitch (European Models)**

**Attaching an Equipment**

1. Remove the hairpin clip.
2. Attach tow bar onto tow hook through the lock tab.



1. Hairpin
2. Tow hook
3. Lock tab

3. Secure lock tab using the hairpin clip.

**Detaching an Equipment**

1. Remove the hairpin.
2. Lower the lock tab and pull tow bar up to free it from the tow hook.
3. Install hairpin clip.

**23) Tilt Steering**

*Expedition SE Model*

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

1. Pull up the lock lever.



1. Tilt steering lock lever

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

**NOTE:** On the other models, the steering can be set to a desired fixed position, see your SKI-DOO authorized dealer.

**24) Winch**

*Expedition SE Model Only*

A winch is provided with this model and can be temporarily installed at front or rear.

**Winch Stowage**

The winch is stowed in the storage compartment.

To remove winch from the storage compartment, open storage compartment lid as explained in *STORAGE COMPARTMENT* above, then simply withdraw winch.

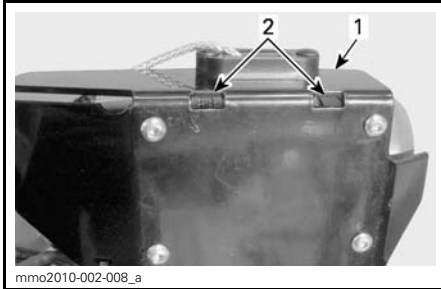
To stow winch in the storage compartment, proceed as follows:

1. Open storage compartment lid as explained in *STORAGE COMPARTMENT* above.

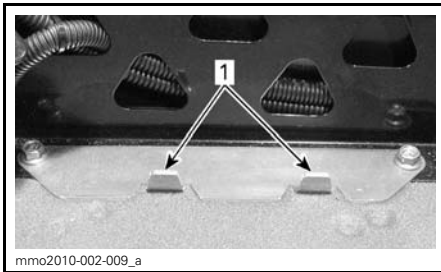


- Place winch mounting plate slots onto tabs located at LH of storage compartment bottom.

**NOTICE** Make sure that the cable and electrical wires will not be pinched between winch and storage compartment bottom.



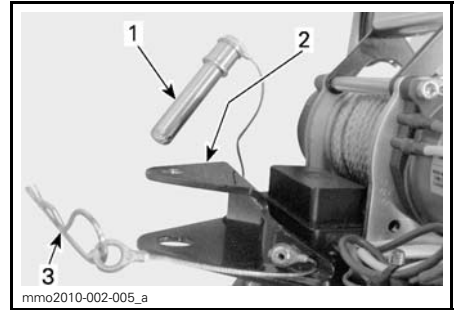
- Mounting plate
- Slots



#### INSIDE STORAGE COMPARTMENT

1. Tabs
3. Close storage compartment lid securely.

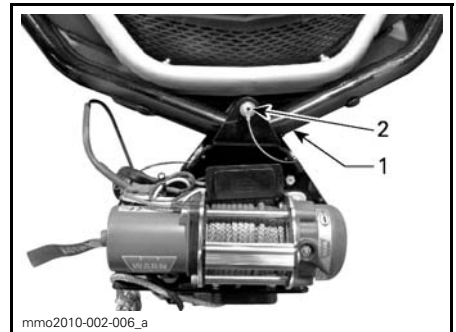
## Winch Installation on the Vehicle



- Pin
- Mounting plate
- Hairpin clip

## Winch Installation at Front

- Place winch mounting plate over the front bumper.
- Insert pin through mounting plate holes behind bumper bar.



#### FRONT INSTALLATION

1. Front bumper
2. Pin
3. Lock pin using the hairpin clip.

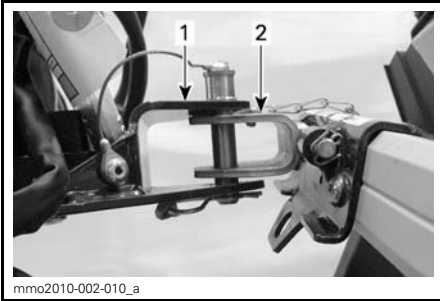
## **⚠ WARNING**

Never operate winch without the pin securely locked with the hairpin clip.

## Winch Installation at Rear

### *Except Europe*

1. Place mounting plate over the hitch tab(s).
2. Insert pin through winch mounting plate and hitch tab(s) holes.
3. Lock pin using the hairpin clip.



### REAR INSTALLATION

1. Winch mounting plate
2. Hitch tabs

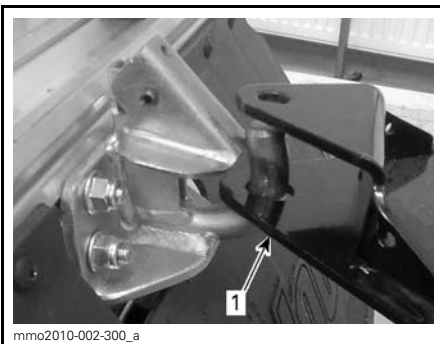
**NOTE:** Use the same method for the single tab hitch type.

## **⚠ WARNING**

Never operate winch without the pin securely locked with the hairpin clip.

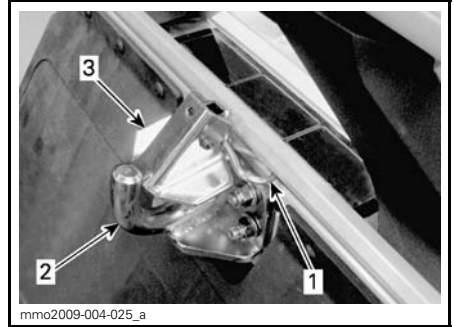
### *Europe*

1. Pass the winch lower mounting plate hole over the J hook.



1. Lower mounting plate

2. Lower winch mounting passed the lock tab.
3. Secure lock tab using the hairpin clip.



1. Hairpin
2. Tow hook
3. Lock tab

## Winch Electrical Connection

1. Pass the vehicle electrical wire over the recess on the RH rear of storage compartment.



### REAR OF STORAGE COMPARTMENT

1. Vehicle electrical wire
2. Connect the vehicle and winch electrical wires together.

## **⚠ WARNING**

Refer to the manufacturer's manuals (*INSTALLATION GUIDE AND THE BASIC GUIDE TO WINCHING TECHNIQUES*) provided with your snowmobile. Always follow safety measures as per manuals safety messages.

## Winch Operation

Refer to the winch manufacturer manuals.

### WARNING

Always follow safety measures as per winch manufacturer manuals safety messages.

## 25) Storage Box

### *Expedition SE Model*

#### Storage Box Opening/Closing

To open storage box lid, release both rubber ties, then lift lid up.

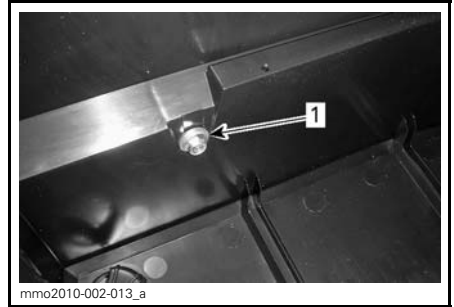


1. Rubber tie

To close, push lid down in order to insert the lid pins into the box grommets. Attach the rubber ties.

#### Storage Box Removal/Installation

To remove storage box from vehicle, open lid and remove the four screws retaining storage box to the rear rack. Keep the screws for installation.



#### INSIDE THE STORAGE BOX

1. Retaining screw

To install storage box, make sure that the tunnel surface is clean. Put storage box within the rear rack rails.

Attach using the four screws. Tighten to  $10 \text{ N}\cdot\text{m} \pm 1 \text{ N}\cdot\text{m}$  ( $89 \text{ lbf}\cdot\text{in} \pm 9 \text{ lbf}\cdot\text{in}$ ).

# 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. The gasoline used must have the following recommended minimum octane rating.

MINIMUM OCTANE RATING	
INSIDE NORTH AMERICA	OUTSIDE NORTH AMERICA
87 (RON + MON)/2	92 RON

**NOTICE** Never experiment with other fuels. The use of non-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.

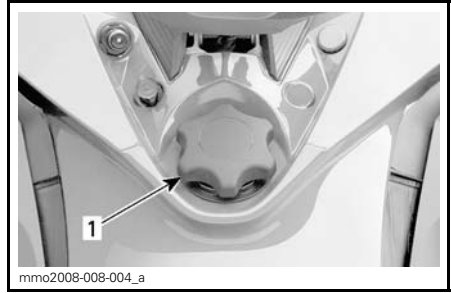
When using non-oxygenated fuel, we highly recommend the use of isopropyl base gas line antifreeze in a proportion of 150 ml (5 U.S. oz) of gas line antifreeze added to 40 L (10.6 U.S. gal.) of gas.

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 SDI

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

ENGINE	RECOMMENDED INJECTION OIL
600 HO SDI	XPS synthetic blend <sup>(1)</sup>

**NOTICE** <sup>(1)</sup> These engines were specifically developed and tested with XPS SYNTHETIC BLEND 2-STROKE OIL (P/N 293 600 100). The use of any other 2-stroke engine oils may cause severe engine damage and may void the limited warranty. Use only XPS synthetic blend 2-stroke oil.

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

### *1200 4-TEC*

ENGINE	RECOMMENDED ENGINE OIL
1200 4-TEC	XPS Winter grade oil

**NOTICE** XPS SYNTHETIC OIL (WINTER GRADE) (P/N 293 600 112) was specially formulated to ensure proper cold start and optimum engine protection at high RPM and temperature. If not available, use SAE 0W-40 synthetic-based oil that meets or exceeds the requirements for API service classification SM.

# 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, brief full acceleration and speed variations contribute to a good break-in. Do not maintain a constant speed for an extended period of time.

**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. Apply parking brake.
2. Recheck throttle lever operation.
3. Put your helmet on.
4. Ensure that the tether cord cap (D.E.S.S. key) is in position and that the cord is attached to your clothing eyelet.
5. Ensure that the engine stop switch is in the ON position.

6. Depress the START 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.

7. Release parking brake.

**NOTE:** For an initial cold start, do not release parking brake. Perform the *VEHICLE WARM-UP* procedure as explained below.

## Emergency Starting

### *1200 4-TEC Model*

The 1200 4-TEC engine does not have a rewind starter. Do not attempt any emergency starting procedure. Have the battery charged or replaced.

### *600 HO SDI Model*

If the starter does not operate and you have followed the steps in *ENGINE STARTING PROCEDURE*, start engine with the rewind starter or the emergency cord as follows:

### Starting Using the Rewind Starter

1. Refer to *BODY* and:
  - 1.1 Remove the RH upper side panel.
  - 1.2 Open the RH lower side panel.
2. Grab rewind starter handle, pull handle slowly until a resistance is felt, then hold handle firmly and pull vigorously to start engine.

- Close lower side panel and install upper side panel.

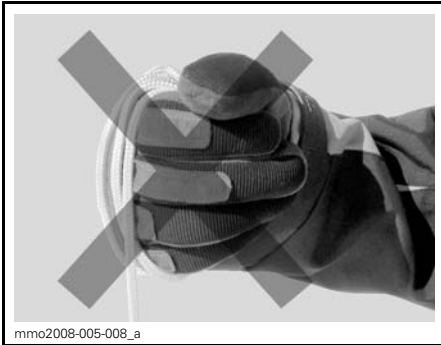
### Starting Using an Emergency Starter Rope

The engine can be started with the emergency starter rope supplied with the tool kit. Proceed as follows:

- Remove belt guard.

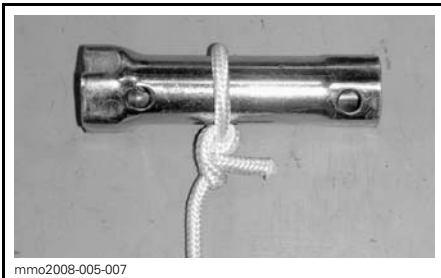
#### **⚠ WARNING**

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.

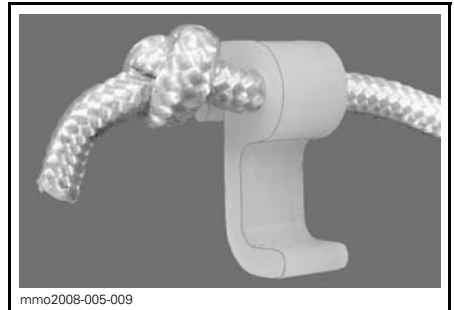


- Attach one end of emergency rope to rewind handle.

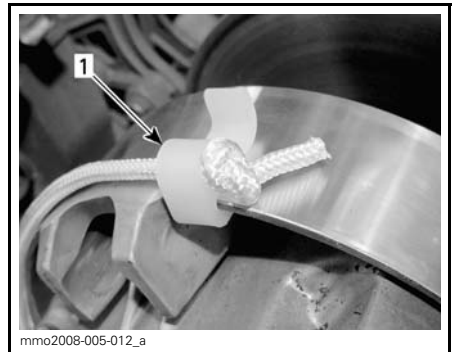
**NOTE:** The spark plug socket can be used as an emergency handle.



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

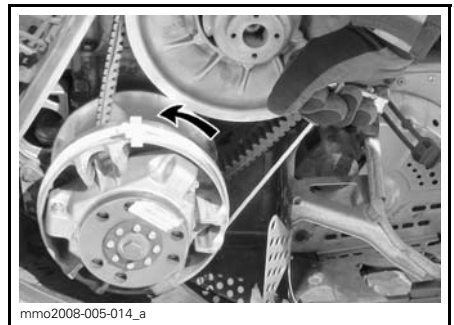


- Hook up clip on drive pulley.



- 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.

**⚠ 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:

- Start engine as explained in *ENGINE STARTING PROCEDURE* above.
- Allow engine to warm up one or two minutes at idle speed.

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

- Disengage parking brake.
- Apply throttle until drive pulley engages. Drive at low speed the first two or three minutes.

**NOTICE** If vehicle does not move when throttle is applied, remove tether cord cap (D.E.S.S. key), then do the following.

- Check if skis are stuck on the ground. Lift one ski at a time by the handle, then put it down.
- Check if track is stuck on the ground. Lift rear of snowmobile enough to clear track from the ground, then drop.
- Check rear suspension for hard snow or ice accumulation that could interfere with track rotation. Clean the area.

**⚠ CAUTION** Beware of injuries by using proper lifting techniques, notably using your legs force. Do not attempt to lift the rear of vehicle if it is above your limits.

**⚠ WARNING**

Make sure tether cord cap is away from post before standing in front of the vehicle, getting close to the track or rear suspension components.

**Gearbox Operation**

**Neutral**

When set in Neutral (N), the gearbox disengages the pulleys from the track.

**Shifting in Reverse**

To engage reverse gear, proceed as follows:

- Bring vehicle to a complete stop.
- Apply and hold brake.
- With engine at idle speed, select reverse (R) gear using the gearshift lever.

**NOTE:** It is necessary to push shift lever knob down to move it from neutral to reverse gear.

- Gently depress throttle lever.

**NOTICE**

- Always put gearbox in 1<sup>st</sup> gear when pulling a load.
- Always put gearbox in Neutral (N) when parked.
- Come to a complete stop and hold brake before shifting to or from reverse. Wait until the reverse alarm sounds before operating throttle.

**⚠ WARNING**

The reverse speed is not limited. Always proceed with caution as fast reverse could result in loss of vehicle stability. Always remain seated. Ensure the path behind is clear of obstacles or bystanders before proceeding.



## Shifting in Forward

There are two forward gears.

To engage a forward gear, proceed as follows:

1. Bring vehicle to a complete stop.
2. Apply and hold brake.
3. With engine at idle speed, select low (1) or high (2) gear using the gearshift lever.
4. Gently depress throttle lever.

**NOTE:** It is possible to shift from 1<sup>st</sup> to 2<sup>nd</sup> gear if vehicle speed is below 20 km/h (12 MPH). Release throttle to shift.

## 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 (D.E.S.S. key).

### WARNING

Always remove the tether cord cap (D.E.S.S. 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

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

### WARNING

Make sure tether cord cap is away from post before standing in front the vehicle, getting close to the track or rear suspension components.

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.

## **⚠ WARNING**

Before proceeding with any suspension adjustment, remember:

- Park in a safe place.
- Remove the tether cord cap (D.E.S.S. key).
- If the front or rear of vehicle have to be lifted, make sure the lifting device is stable and secure.

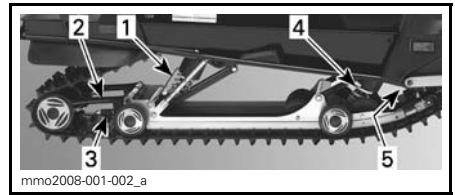
**⚠ CAUTION** Do not attempt to lift the vehicle by hand alone. Use appropriate lifting device to avoid risk of strain injuries.

Following are guidelines to fine-tune suspension.

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.

## **Rear Suspension Adjustment**

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



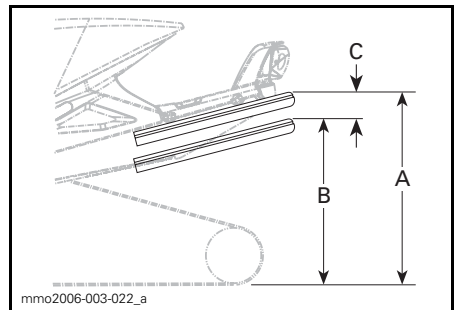
### **TYPICAL**

1. Rear spring — comfort and ride height
2. Suspended extension — reverse performance, load and snow conditions
3. Suspended extension adjustment
4. Center spring — handling
5. Stopper strap — snowmobile weight transfer

## **Rear Spring 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.



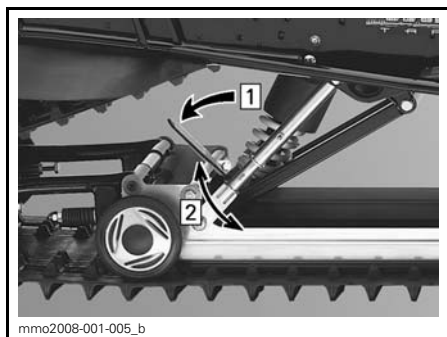
### **TYPICAL — PROPER ADJUSTMENT**

- 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)

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

Using the built-in handle, turn adjustment cam to set the desired preload.



#### TYPICAL

Step 1: Pull on handle

Step 2: Turn to increase 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

Using the suspension adjustment key from toolbox, turn adjustment cam to set the desired preload.



1. Adjustment cam

### Stopper Strap Length (Weight Transfer)

Ride at low speed then fully accelerate.

Note steering behavior.

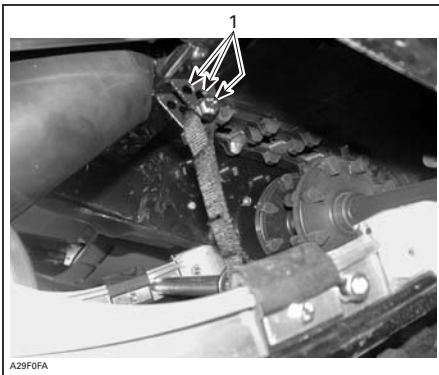
Adjust stopper strap length accordingly.

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

## REFERENCE TABLE

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

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



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## TYPICAL

1. Adjustment holes (stopper strap)

**NOTE:** Decreasing the stopper strap length may reduce comfort.

## Deep Snow Riding

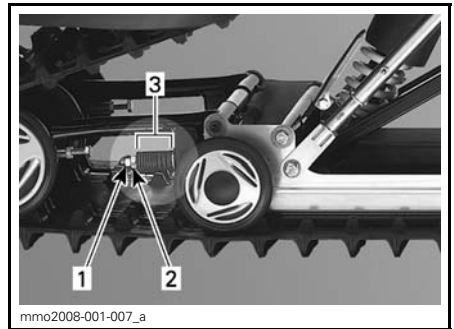
When operating the snowmobile in deep snow, it may be necessary to vary stopper strap length and/or riding position, to change the angle at which the track rides on the snow. Operator's familiarity with the various adjustments as well as snow conditions will dictate the most efficient combination. Generally,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

## Suspended Extension Adjustment

Suspended extension can be adjusted according to the load and snow conditions.

For better deep snow performance or to increase reverse performance in deep snow, first loosen lock nut, then tighten nut 3/4 turn after contacting washers. Retighten lock nut. Adjust the same on both sides.

For trail riding with a load or for pulling a load, first loosen lock nut. Turn to a maximum preload of 3 turns after nut touching washers. Retighten lock nut. Adjust the same on both sides.



## TYPICAL

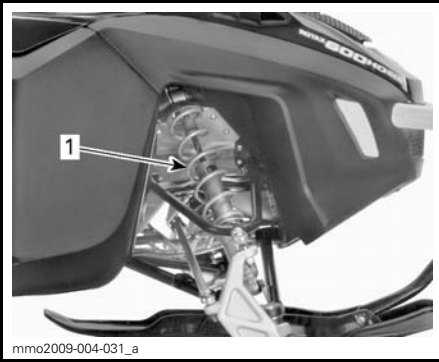
1. Lock nut
2. Nut
3. Washers

## Front Suspension Adjustment

## Front Springs Preload (Handling)

Ride at moderate speed and check for proper handling.

Adjust front springs accordingly.



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**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



mme2009-004-031\_b

**TYPICAL - CAM TYPE PRELOAD**  
 1. Adjustment cam

## 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"> <li>– Reduce front suspension spring preload.</li> <li>– Increase center spring preload.</li> <li>– Reduce rear spring preload.</li> </ul>
Snowmobile seems unstable and seems to pivot around its center	Reduce rear suspension front arm pressure. <ul style="list-style-type: none"> <li>– Reduce center spring preload.</li> <li>– Increase rear spring preload.</li> <li>– Increase front suspension spring preload.</li> </ul>
Steering feels too heavy	Reduce ski ground pressure. <ul style="list-style-type: none"> <li>– Reduce front suspension spring preload.</li> <li>– Increase center spring preload.</li> </ul>
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.

---

## 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***

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## 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.

600 HO SDI

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 (4000 mi)										
	*Storage										
*Preseason											
PART/TASK	LEGEND										
<b>ENGINE</b>											
Rewind starter										I, L, C	(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.
Engine motor mounts	I				I			I			
Exhaust system	I				I			I			
Exhaust manifold screws <sup>(1)</sup>	I									I	
Engine lubrication								L			
Cooling system	I									I	
Coolant <sup>(2) (3)</sup>	I				I						
Crankshaft PTO seal										I	
RAVE valves					C						
RAVE valves solenoid					I						
Injection oil filter								R			
Engine stopper					A						
<b>ENGINE MANAGEMENT SYSTEM</b>											
EMS fault codes	I							I			—
<b>FUEL SYSTEM</b>											
Fuel stabilizer									(4)		(4) Add to fuel prior to engine lubrication. (5) Check condition before each ride.
Fuel filter								R			
Fuel lines, fuel rail and connections	I									I	
Throttle body										C	
Throttle cable	I				I					I	
Air intake silencer prefilter <sup>(5)</sup>										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 tears or 6000 km (4000 mi)																					
	*Storage																					
*Preseason																						
PART/TASK										LEGEND												
<b>DRIVE SYSTEM</b>																						
Drive belt <sup>(6)</sup>	I	I																				(6) Adjust drive belt height and have the tension checked by an authorized SKI-DOO dealer at every belt replacement. (7) Tightening torque of drive pulley must be checked at the 10-hour inspection and every year or 3200 km (2000 mi) thereafter. (8) Check track condition before each ride. (9) Adjust track tension and alignment as required.
Drive pulley <sup>(7)</sup>	I		I	C					I	C												
Driven pulley	I		I	C					I	C												
Gearbox oil																						
Track <sup>(8)</sup>	A	<sup>(9)</sup>																				
<b>BRAKE SYSTEM</b>																						
Brake fluid	I	I							R													—
Brake hose, pads and disk	I	I																				
Brake Lever										L												
<b>STEERING</b>																						
Steering mechanism <sup>(10)</sup>	I			I, L																		(10) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).
<b>FRONT SUSPENSION</b>																						
Front suspension mechanism <sup>(10)</sup>	I			I, L																		(10) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).
Skis and runners	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 tears or 6000 km (4000 mi)										
	*Storage										
	*Preseason										
PART/TASK											
<b>REAR SUSPENSION</b>											
Rear suspension mechanism <sup>(10)</sup>	I		I, L					I, L			(10) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).
Rear suspension stopper strap				I				I			
<b>ELECTRICAL SYSTEM</b>											
Spark plugs <sup>(11)</sup>	I		I							R	(11) Before installing new spark plugs at preseason, preparation it is suggested to burn excess storage oil by starting the engine with the old spark plugs. Only perform this operation in a well ventilated area.
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 (D.E.S.S.)	I	I						I			
<b>CHASSIS/BODY</b>											
Headlights beam aiming				A							—
Engine compartment	C		C					C			
Vehicle	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	<b>*10-hour or 500 km (300 mi)</b>							<b>LEGEND</b>
	<b>Weekly or every 250 km (150 mi)</b>							
	<b>Monthly or every 800 km (500 mi)</b>							
	<b>Every year or 3200 km (2000 mi)</b>							
	<b>Every 2 tears or 6000 km (4000 mi)</b>							
	<b>*Storage</b>							
<b>*Preseason</b>								
<b>PART/TASK</b>								
<b>ENGINE</b>								
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 every 10 hours or 500 km whichever comes first. (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 <sup>(1)</sup>	I					I		
Cooling system	I					I		
Coolant <sup>(2) (3)</sup>	I			I				
Engine oil <sup>(4)</sup> and filter	R			(5)				
Valves adjustment				(6)				
<b>ENGINE MANAGEMENT SYSTEM</b>								
EMS fault codes	I					I	—	
<b>FUEL SYSTEM</b>								
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 <sup>(9)</sup>						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 tears or 6000 km (4000 mi)										
	*Storage										
*Preseason											
PART/TASK											LEGEND
<b>DRIVE SYSTEM</b>											
Drive belt <sup>(10)</sup>	I	I								I	(10) Adjust drive belt height and have the tension checked by an authorized SKI-DOO dealer at every belt replacement. (11) Tightening torque of drive pulley must be checked at the 10-hour inspection and every year or 3200 km (2000 mi) thereafter. (12) Driven pulley preload should be checked at the 10-hour inspection and every year or 3200 km (2000 mi) thereafter. (13) Check track condition before each ride. (14) Adjust track tension and alignment as required.
Drive pulley <sup>(11)</sup>	I		I	C					I	C	
Driven pulley <sup>(12)</sup>	I		I	C					I	C	
Drive chain	A		A						A		
Chaincase oil									R		
Track <sup>(13)</sup>	A <sup>(14)</sup>										
<b>BRAKE SYSTEM</b>											
Brake fluid	I	I				R				I	—
Brake hose, pads and disk	I	I								I	
Brake Lever								L			
<b>STEERING</b>											
Steering mechanism <sup>(15)</sup>	I		I, L						I, L		(15) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).
<b>FRONT SUSPENSION</b>											
Front suspension mechanism <sup>(15)</sup>	I		I, L						I, L		(15) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).
Skis and runners	I	I							I		
<b>REAR SUSPENSION</b>											
Rear suspension mechanism <sup>(15)</sup>	I		I, L						I, L		(15) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).
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	<b>*10-hour or 500 km (300 mi)</b>												
	<b>Weekly or every 250 km (150 mi)</b>												
	<b>Monthly or every 800 km (500 mi)</b>												
	<b>Every year or 3200 km (2000 mi)</b>												
	<b>Every 2 years or 6000 km (4000 mi)</b>												
	<b>*Storage</b>												
<b>*Preseason</b>													
<b>PART/TASK</b>							<b>LEGEND</b>						

**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 (D.E.S.S.)	I	I				I		

**CHASSIS/BODY**

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



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## 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

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.

## **Air Intake Silencer Prefilter**

### **Air Intake Silencer Prefilter Verification**

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



1. Prefilter

To remove prefilter, simply pull it out.

To install prefilter, push it back in place making sure it is properly secured.

## **Engine Coolant**

### **⚠ WARNING**

Never open radiator cap when engine is hot.

### **Engine Coolant level**

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

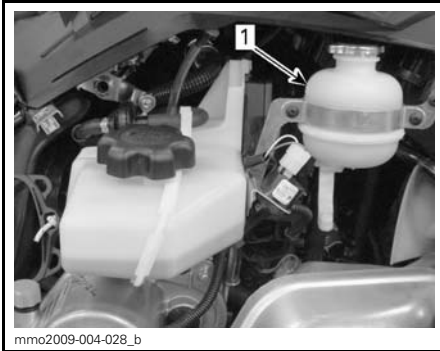
The cold level line is just above the retaining clamp.

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

**NOTE:** When checking coolant level at low temperature it may be slightly below the cold level line.

To add coolant, remove front coolant tank fixation and slightly pull the tank outwards to make room for the cap.

If additional a large amount of coolant has to be added or if entire system has to be refilled, refer to an authorized SKI-DOO dealer.



**TYPICAL**

1. Coolant tank



1. Oil reservoir

**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**

**Adding Injection Oil**

The oil reservoir is located on the RH side behind the upper side panel. Refer to *BODY* for removal.

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.

**⚠ WARNING**

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

**Engine Oil**

**Engine Oil Level**

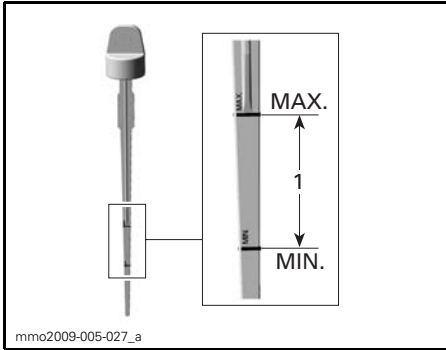
*1200 4-TEC*

**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.

- Remove dipstick and check the oil level. Oil level should be between the MIN and MAX marks as shown, add if necessary.



- Oil level between MIN. and MAX.

**CAUTION** Engine oil can be very hot.

**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

### 1200 4-TEC Model

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

### 600 HO SDI Model

### Spark Plug Removal

- Carefully remove spark plug wire cap with a twisting and pulling motion.

**NOTICE** Pull on the spark plug cap, never on the spark plug wire.

- Using a proper socket or the spark plug socket and screwdriver pin from toolbox, unscrew spark plug a few turns without removing it.

- Clean the spark plug area on cylinder head.

**NOTICE** Severe engine damage can occur if grime particles enter the combustion chamber.

- Remove spark plug.

### Spark Plug Installation

- Measure spark plug gap, refer to *SPECIFICATIONS*.

**NOTE:** The gap is not adjustable. If gap is incorrect, replace spark plugs.

- Apply LOCTITE 767 (ANTISEIZE LUBRICANT) (P/N 293 800 070) on spark plug threads.

- Screw spark plug by hand until it contacts cylinder head.

- For the final tightening, use one of the following procedures:

- With a torque wrench (preferred): torque to  $27 \text{ N}\cdot\text{m} \pm 2 \text{ N}\cdot\text{m}$  ( $20 \text{ lbf}\cdot\text{ft} \pm 1 \text{ lbf}\cdot\text{ft}$ ).

- With the socket from the tool kit: tighten 1/2 turn for a new spark plug or 1/10 turn for a used spark plug.

- Connect spark plug wire.

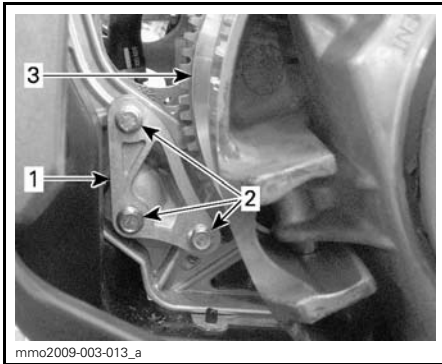
## Engine Stopper

600 HO SDI Model Only

### Engine Stopper Adjustment

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

1. Remove D.E.S.S. key from post.
2. Remove the LH lower 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.



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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  $10 \text{ N}\cdot\text{m} \pm 2 \text{ N}\cdot\text{m}$  ( $89 \text{ lbf}\cdot\text{in} \pm 18 \text{ lbf}\cdot\text{in}$ ).

**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.

### **WARNING**

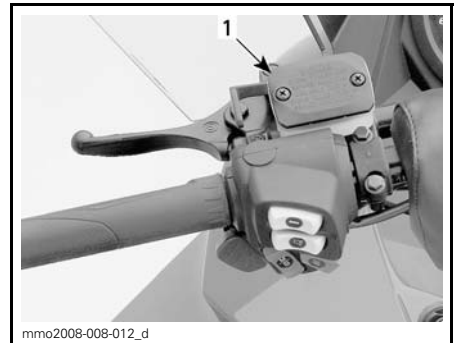
Use only DOT 4 brake fluid from a sealed container. To avoid serious damage to the braking system, do not use fluids other than the recommended one, nor mix different fluids for topping up.

**NOTICE** Brake fluid can damage painted and plastic parts. Handle with care. Rinse thoroughly in case of spillage.

### Brake Fluid Level

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

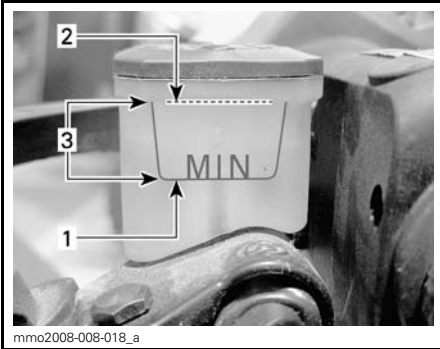
Check brake fluid (DOT 4) in reservoir for proper level. Add fluid (DOT 4) as required.



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TYPICAL

1. Brake fluid reservoir



1. Minimum
2. Maximum
3. Operating range

**⚠ WARNING**

Avoid getting brake fluid on skin or eyes - it may cause severe burns. In case of contact skin, wash thoroughly. In case of contact with the eyes, immediately rinse with plenty of water for at least 10 minutes and then consult a doctor immediately.

**Gearbox Oil**

**Recommended Gearbox Oil**

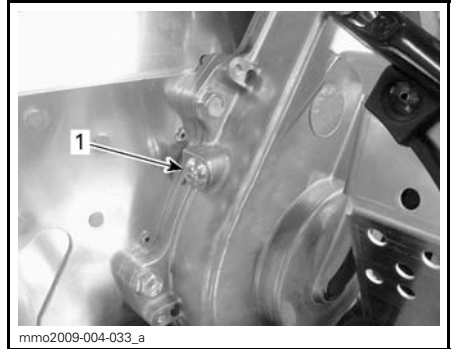
Use XPS SYNTHETIC CHAINCASE OIL (P/N 413 803 300).

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

**Gearbox Oil Level**

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

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



1. Check plug

To add oil, proceed as follows:

1. Remove the filler cap.



**TYPICAL**

1. Filler cap
2. Pour recommended oil in gearbox by the filler hole until oil comes out by the check plug hole.
3. Reinstall check plug and torque to  $10 \text{ N}\cdot\text{m} \pm 1 \text{ N}\cdot\text{m}$  ( $89 \text{ lbf}\cdot\text{in} \pm 9 \text{ lbf}\cdot\text{in}$ )

## 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.

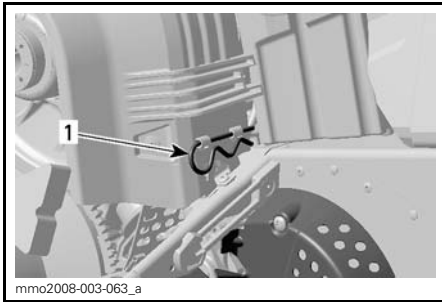
NEVER attempt to make adjustments to moving parts while engine is running.

**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 (D.E.S.S. key).

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

Remove retaining pin.



**TYPICAL**

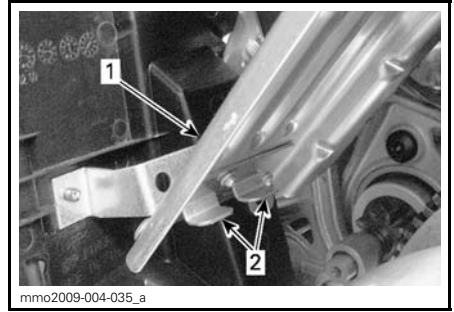
1. Retaining pin

Lift rear portion of guard then release from front tabs.

### Drive Belt Guard Installation

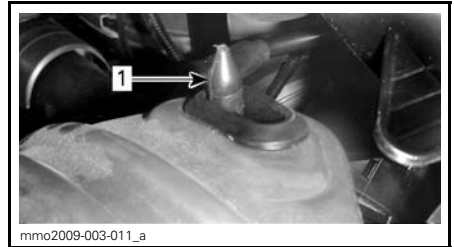
When reinstalling belt guard, position its cutaway toward front of snowmobile.

Place belt guard front openings over tabs.



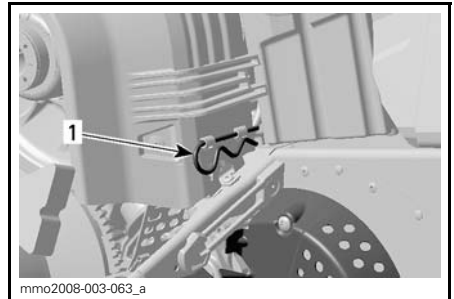
1. Belt guard
2. Tabs

Position the grommet over the retaining rod.



1. Retaining rod

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



1. Retaining pin

## Drive Belt

### Drive Belt Inspection

Inspect belt for cracks, fraying or abnormal wear (uneven wear, wear on one side, missing cogs, cracked fab-

ric). 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.

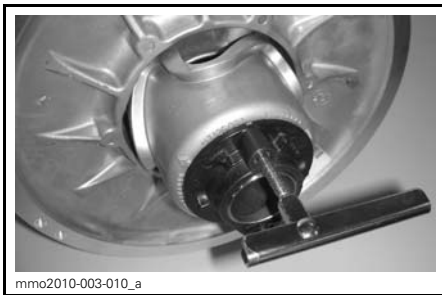
### Drive Belt Replacement (Screw Type and Ring Type Adjuster)

#### Drive Belt Removal

1. Remove D.E.S.S. 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 kit in the threaded hole on the adjuster hub as shown.



SCREW TYPE PULLEY ADJUSTER



RING TYPE PULLEY ADJUSTER

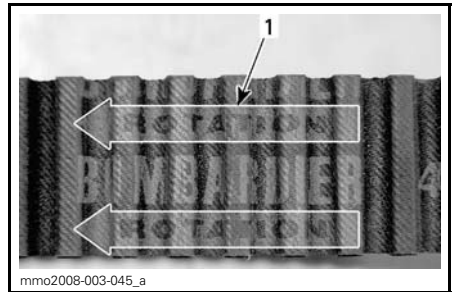
5. Open the driven pulley by screwing the tool in.
6. Remove the belt by slipping it over the top of the driven pulley, then over the drive pulley.

#### 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 belt is installed with arrows in the direction of rotation.



1. To be pointed in the direction of rotation
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. If a new belt was installed, adjust the belt height. Refer to *DRIVE BELT HEIGHT ADJUSTMENT* below.
6. Install belt guard, refer to *DRIVE BELT GUARD INSTALLATION*.
7. Close side panel, refer to *BODY*.

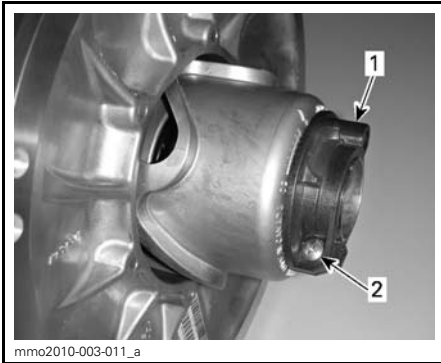


### Drive Belt Height Adjustment (Ring Type Pulley Adjuster)

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

To adjust the drive belt height, proceed as follows:

1. Remove D.E.S.S. key from post.
2. Open LH side panel, refer to *BODY*.
3. Remove belt guard, refer to *DRIVE BELT GUARD REMOVAL*.
4. Loosen the clamping screw.



1. Adjuster
2. Clamping screw

5. Using the suspension adjustment tool provided in the tool kit, turn the ring 1/4 turn at a time then rotate the driven pulley to properly set the belt between the pulley sheaves.

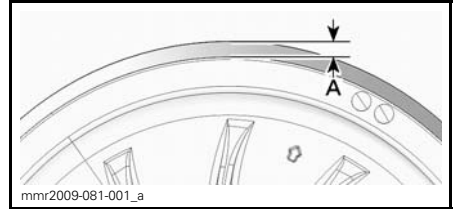


1. Suspension adjustment tool

**NOTE:** The adjustment ring has left hand threads.

### Belt without External Cogs

Repeat step 5 until the external surface of drive belt exceeds driven pulley edge by 2 mm (.079 in).

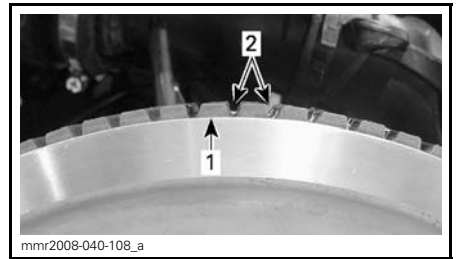


#### PRELIMINARY SETTING

A. 2 mm (.079 in)

### Belt with External Cogs

Repeat step 5 until the bottom of grooves on the external side of drive belt are flush with the driven pulley edges.



#### PRELIMINARY SETTING

1. Driven pulley edge
2. External drive belt grooves

### All Drive Belt Types

**NOTE:** Turning the ring counterclockwise lowers the belt in the pulley. Turning the ring clockwise raises the belt in the pulley.

6. Firmly tighten the clamping screw. If possible, tighten to  $5.5\text{N}\bullet\text{m} \pm 0.5\text{N}\bullet\text{m}$  ( $49\text{lb}\bullet\text{in} \pm 4\text{lb}\bullet\text{in}$ ) using a torque wrench.
7. Install belt guard, refer to *DRIVE BELT GUARD INSTALLATION*.
8. Close side panel, refer to *BODY*.

**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 drive belt height from the preliminary setting. Repeat procedure until creeping stops.

### Reverse Activation

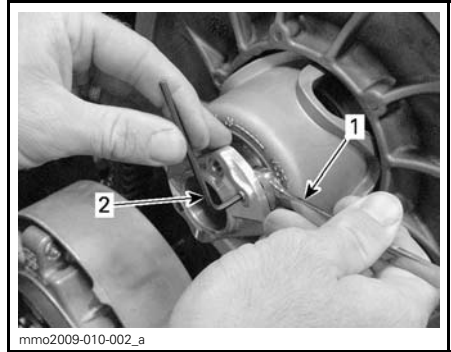
**NOTE:** The reverse may not activate or may be harder to activate if the belt is positioned too high in the driven pulley. If reverse activation does not work properly, ensure the drive belt is properly adjusted. Adjust the drive belt lower in the driven pulley if needed.

### Drive Belt Height Adjustment (Screw Type Pulley Adjuster)

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

To adjust the drive belt height, proceed as follows:

1. Remove D.E.S.S. 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.

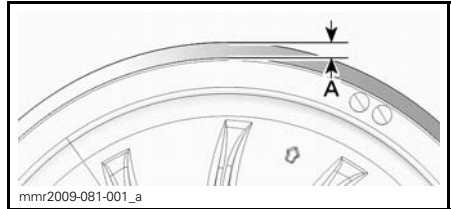


#### LOOSEN THE LOCK NUTS

1. 3 mm Allen key
2. 10 mm open wrench
5. Turn one set screw 1/4 turn at a time then rotate the driven pulley to properly set the belt between the pulley sheaves.

#### Belt without External Cogs

Repeat step 5 until the external surface of drive belt exceeds driven pulley edge by 2 mm (.079 in).

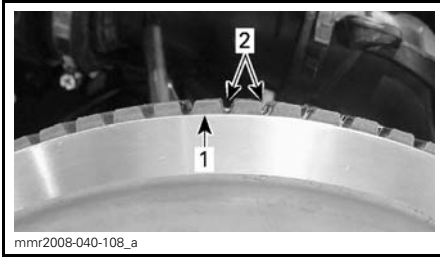


#### PRELIMINARY SETTING

- A. 2 mm (.079 in)

#### Belt with External Cogs

Repeat step 5 until the bottom of grooves on the external side of drive belt are flush with the driven pulley edges.



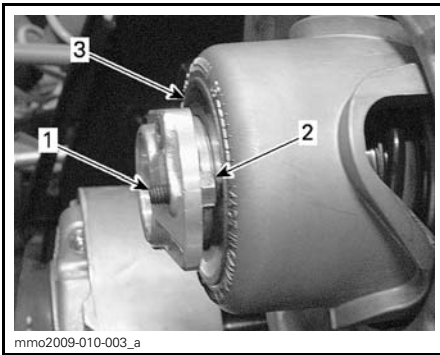
**PRELIMINARY SETTING**

1. Driven pulley edge
2. External drive belt grooves

**All Drive Belt Types**

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

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



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

7. Keep the set screws from turning and tighten the lock nuts towards the adjuster hub to  $7 \text{ N}\cdot\text{m} \pm 1 \text{ N}\cdot\text{m}$  ( $62 \text{ lb}\cdot\text{ft} \pm 9 \text{ lb}\cdot\text{ft}$ )

8. Install belt guard, refer to *DRIVE BELT GUARD INSTALLATION*.

9. Close side panel, refer to *BODY*.

**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 drive belt height from the preliminary setting. Repeat procedure until creeping stops.

**Reverse Activation**

**NOTE:** The reverse may not activate or may be harder to activate if the belt is positioned too high in the driven pulley. If reverse activation does not work properly, ensure the drive belt is properly adjusted. Adjust the drive belt lower in the driven pulley if needed.

**Drive Pulley**

**Drive Pulley Adjustment**

The drive pulley is factory calibrated for sea level operation.

**⚠ WARNING**

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

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.

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

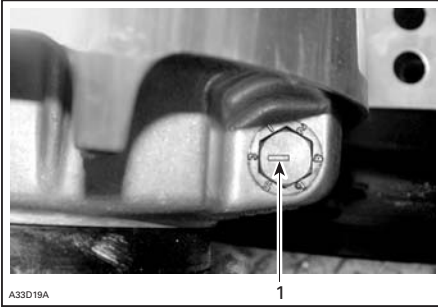
Calibration screws should be adjusted so that actual maximum engine RPM matches the maximum horsepower RPM.

ENGINE	MAXIMUM HORSEPOWER RPM
600 HO SDI	8100 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.

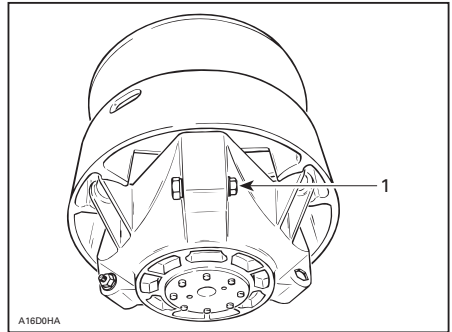
Example:

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 lock nut enough to pull calibration screw partially out and adjust to desired position. Do not completely remove the lock nut. Torque lock nuts to  $10 \text{ N}\cdot\text{m} \pm 2 \text{ N}\cdot\text{m}$  ( $89 \text{ lbf}\cdot\text{in} \pm 18 \text{ lbf}\cdot\text{in}$ ).

**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.

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 Inspection

#### **⚠ WARNING**

Remove the tether cord cap (D.E.S.S. 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 (D.E.S.S. 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.

#### **⚠ WARNING**

Riding with a damaged track could lead to a loss of control.

### 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 if it is necessary to rotate track.
- When the track is raised off the ground, only run it at the lowest possible speed.

Centrifugal force could cause debris, pieces of torn track, or an entire severed track to be violently thrown backwards out of the tunnel with tremendous force.

### Tension

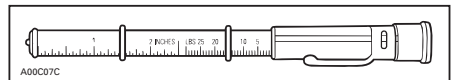
**NOTE:** Ride the snowmobile in snow about 15 to 20 minutes prior to adjusting track tension.

Remove the tether cord cap (D.E.S.S. key).

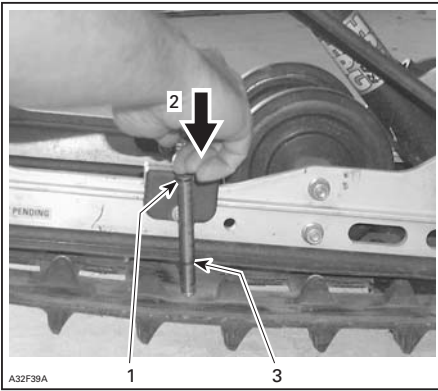
Lift rear of snowmobile and support it with a wide-base snowmobile mechanical stand.

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**

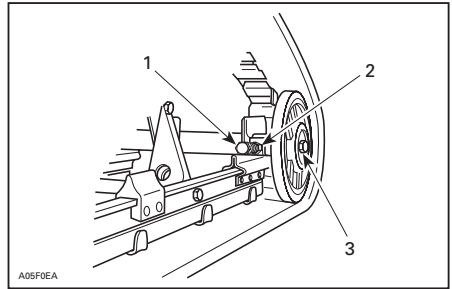
1. Top tool O-ring positioned at 7.3 kg (16 lb)
2. Push on top portion of tool until it contacts the top O-ring
3. Measured track deflection

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

To adjust track tension:

- Remove the tether cord cap (D.E.S.S. key).
- Remove rear wheel caps (if so equipped).
- Loosen the rear idler wheel retaining bolts.
- Loosen the lock nuts, then turn adjustment bolts to adjust.

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



**TYPICAL**

1. Adjustment bolt
2. Lock nut
3. Idler wheel retaining bolt

1. Retighten lock nuts and idler wheels retaining bolts.
2. Check track alignment as described below.

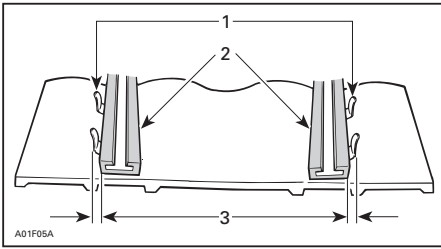
Alignment

**⚠ 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, pieces of torn track, or an entire severed track to be violently thrown backwards out of the tunnel with tremendous force.

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.



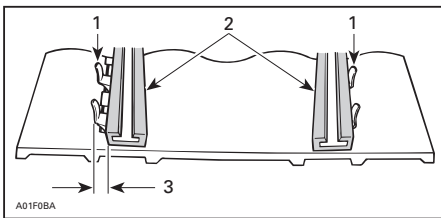
1. Guides
2. Slider shoes
3. Equal distance

If off center, perform alignment as follows:

### **WARNING**

Remove the tether cord cap (D.E.S.S. 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 (D.E.S.S. 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.

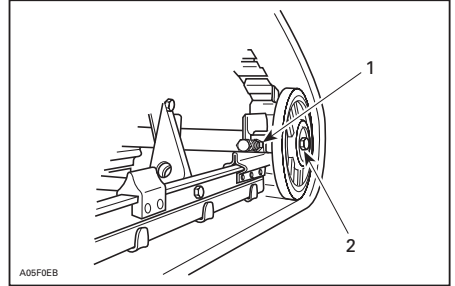


1. Guides
2. Slider shoes
3. Tighten on this side

4. Tighten lock nuts
5. Torque idler wheels retaining bolts to  $48 \text{ N}\cdot\text{m} \pm 6 \text{ N}\cdot\text{m}$  ( $35 \text{ lbf}\cdot\text{ft} \pm 4 \text{ lbf}\cdot\text{ft}$ ).

### **WARNING**

Make sure all fasteners are properly tightened to avoid losing an idler wheel or causing the track to lock.



#### TYPICAL

1. Locknut
2. Retaining bolts

6. Start engine and rotate track slowly to recheck alignment.
7. Reposition snowmobile on ground.
8. Install rear wheel caps if so equipped.

## Suspension

### Rear Suspension Condition

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

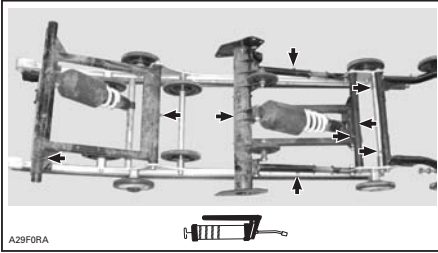
**NOTE:** During normal driving, snow will act as a lubricant and coolant for the slider shoes. Extensive riding on ice or sanded snow, will create excessive heat build-up and cause premature slider shoe wear.

### 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  $9 \text{ N}\cdot\text{m} \pm 1 \text{ N}\cdot\text{m}$  ( $80 \text{ lbf}\cdot\text{in} \pm 9 \text{ lbf}\cdot\text{in}$ ).

## Rear Suspension Lubrication

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



GREASE FITTINGS LOCATION

## 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.

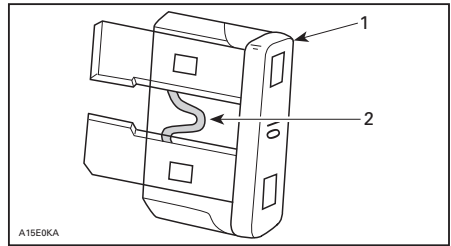
## Fuses

### 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

The fuse box is located behind the front seat upholstery at the LH front lower portion of seat.

Refer to the decal inside the fuse box cover or the *SPECIFICATIONS* section for fuse identification.

To access the fuse box, carefully pull seat upholstery out of the aluminum extrusion by pulling the plastic strip downwards and sideways at the same time.





TYPICAL - PULL STRIP



1. Fuse box

Close upholstery by pushing the strip back in the aluminium extrusion.

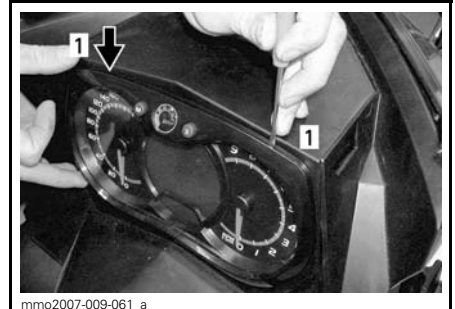
## Lights

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.

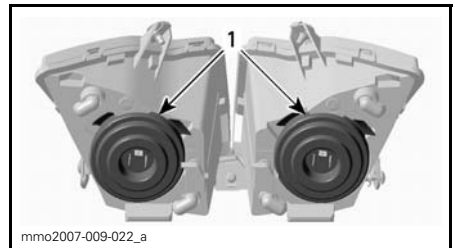


1. Locking tab

2. Gently pull on multifunction gauge and set aside.

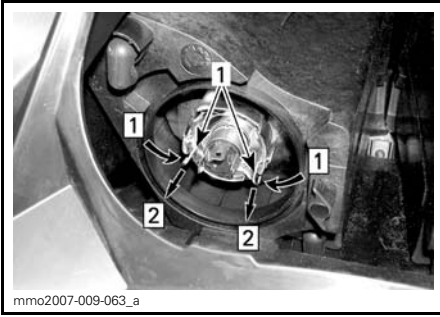


3. Unplug burnt bulb connector. Remove the rubber boot.



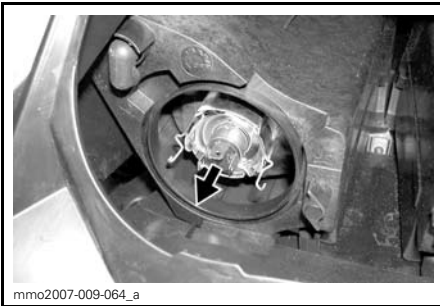
1. Rubber boots

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



1. Retaining clip
- Step 1: Push both sides  
Step 2: Pull to release

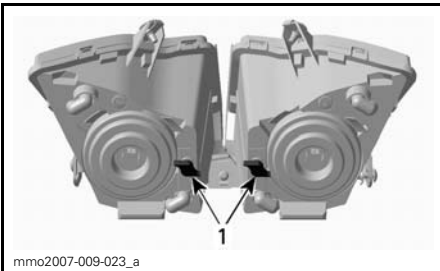
5. Pull bulb and replace. Properly re-install parts.



**PULL BULB AND REPLACE**

**Headlights Beam Aiming**

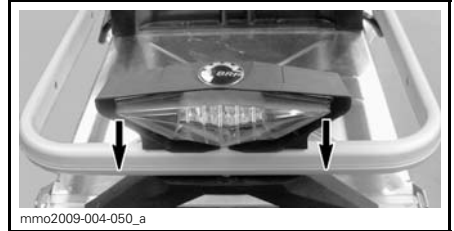
Remove multifunction gauge, refer to *HEADLIGHTS BULB REPLACEMENT*. Turn knob to adjust beam height.



- TYPICAL**
1. Knobs

**Taillight Bulb Replacement**

1. Carefully pull taillight assembly by both ends at the same time.



**NOTICE** Plastic retaining pins may break if taillight assembly is forced sideways. Avoid sideways movement when pulling taillight out.

2. Remove lamp socket from taillight assembly.
  - 2.1 Turn socket counterclockwise.
  - 2.2 Pull socket out.
3. Replace bulb.
4. Secure socket into taillight assembly.
5. Push taillight assembly in back in place.

**Body**

**Hood**

**⚠ WARNING**  
Never operate engine with hood removed from vehicle.

**Hood Removal**

1. Remove upper side panels as explained below.
2. Unhook the rubber ties on both sides.



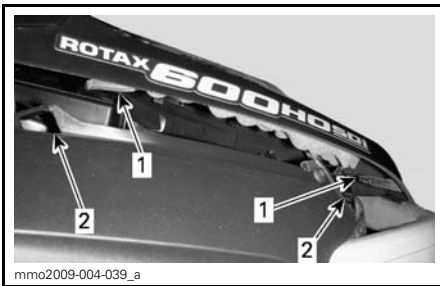
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1. Rubber tie

- Slide hood towards front to free the tabs from their slots.

### Hood Installation

- Engage the tabs located at front and center of the hood into the bottom pan slots.



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1. Tabs
2. Slots

- Slide hood towards headlights until it stops.
- Hook the rubber ties.

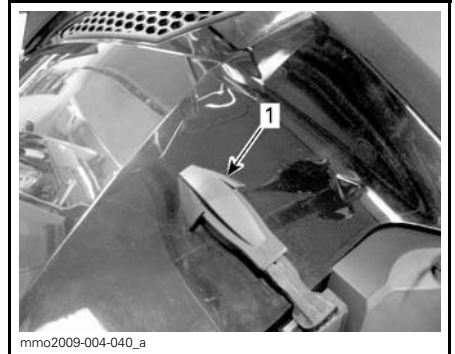
### Upper Side Panels

**⚠ WARNING**

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

### Upper Side Panel Removal

- Unhook the rubber tie.



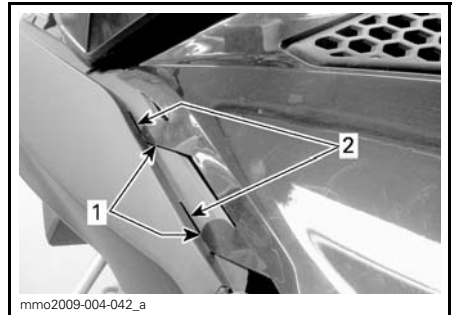
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1. Rubber tie

- Lift the rear portion of panel to free the plastic tab from the console.
- Slide panel back.

### Upper Side Panel Installation

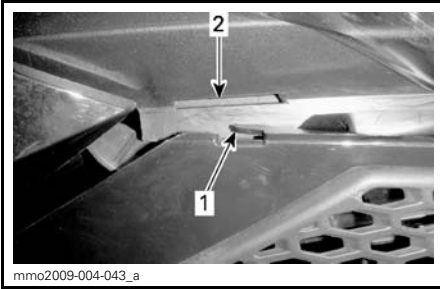
- Insert front lower tabs into the upper bottom pan slots.



mmo2009-004-042\_a

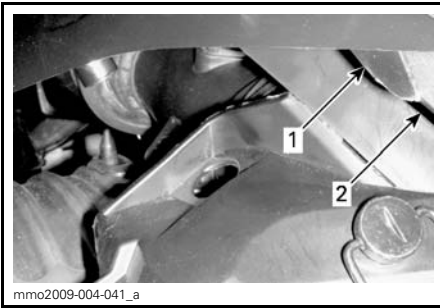
1. Tabs
2. Slots

- Insert the top center tabs into the console.



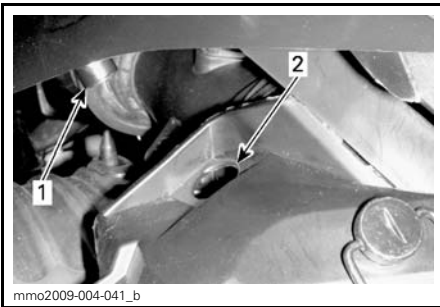
1. Tab
2. Slot

3. Insert the rear tab into the console.



1. Tab
2. Slot

4. Align and insert both cylindrical guides into the round holes on the lower side panel.



1. Cylindrical guide
2. Hole

5. Hook rubber tie.

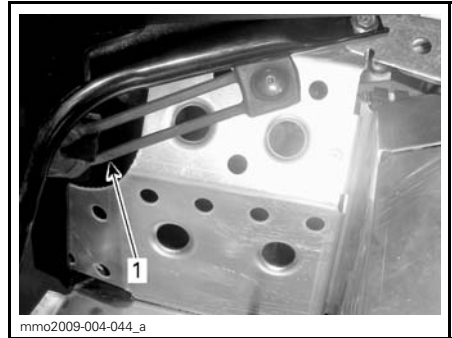
## Lower Side Panels

### **⚠ WARNING**

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

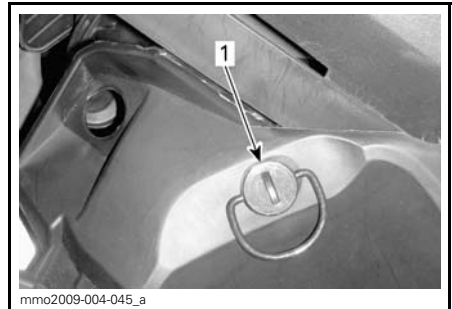
### Lower Side Panel Opening

1. Remove upper side panel as explained above.
2. Unhook the rubber tie.



1. Rubber tie

3. Turn the clip 1/4 turn counterclockwise to unlock.

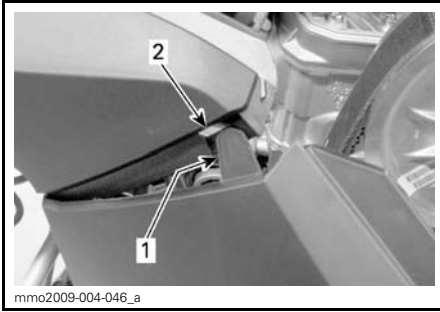


1. Clip

4. Slightly lift the rear of side panel, then open sideways.

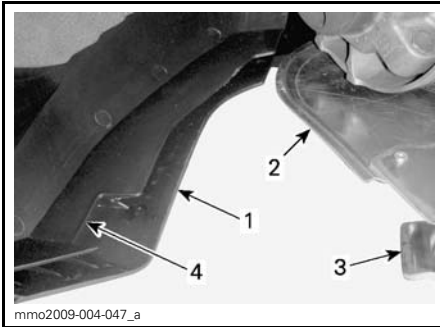
### Lower Side Panel Closing

1. Insert the front upper tab into the upper bottom pan slot.



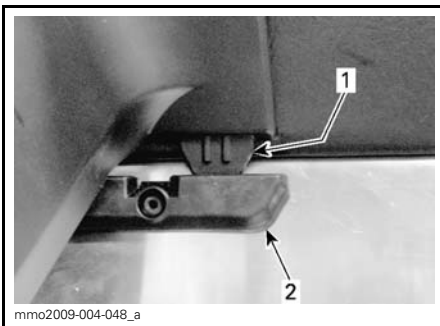
1. Tab
2. Slot

2. Insert the lower section of side panel over the aluminium chassis and the aluminium tab into the panel slot.



1. Lower section
2. Aluminium chassis
3. Aluminium tab
4. Panel slot

3. Insert the lower rear tab into the tunnel slot.



1. Tab
2. Slot

4. Hook the rubber tie.
5. Lock the clip by turning it 1/4 turn clockwise.

### Lower Side Panel Removal/Installation

1. Open lower side panel as explained above.
2. Lift the front of side panel and free the lower hinge from its slot.
3. Free the upper hinge by lowering the panel.

Reverse procedure for installation.

### 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.

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# 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.

 **CAUTION** Use appropriate lifting device or have assistance to share lifting stress. If a lifting device is not used, use proper lifting techniques, notably using your legs force. Do not attempt to lift the rear of vehicle if it is above your limits.

**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.

## **Preseason Preparation**

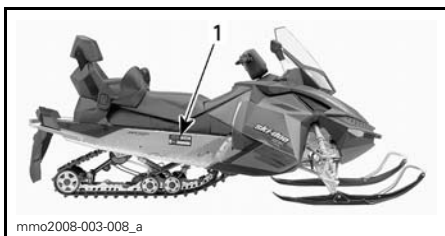
To prepare your snowmobile, refer to an authorized SKI-DOO dealer.

# ***TECHNICAL INFORMATION***

# VEHICLE IDENTIFICATION

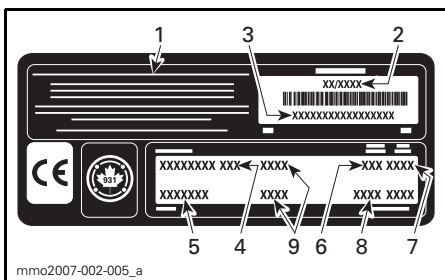
## Vehicle Description Decal

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



### TYPICAL

1. Vehicle description decal



### 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)

## Identification Numbers

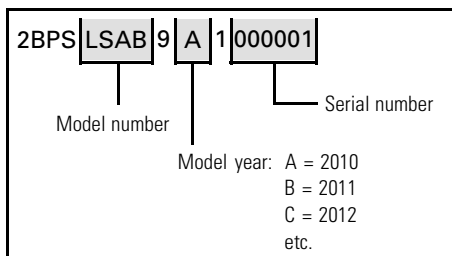
The main components of your snowmobile (engine and frame) are identified by different identification numbers. It may sometimes become necessary to locate these numbers for warranty purposes or to trace your snowmobile in the event of loss. These numbers are required by the authorized SKI-DOO dealer to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

ommend that you take note of all the identification numbers on your snowmobile and supply them to your insurance company.

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

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

Model number and model year are part of the information found in the V.I.N. See illustration.



## Engine Identification Number

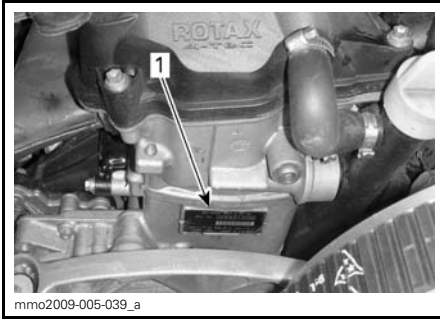
Refer to the following illustrations to locate the engine identification number on the applicable engine.



### TYPICAL - 600 HO SDI ENGINE

1. Engine serial number





**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.

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# 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 2007 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 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/](http://www.epa.gov/otaq/)

# SPECIFICATIONS

<b>ENGINE</b>		<b>600 HO SDI</b>
Engine type	Rotax® 593, liquid cooled w/Reed valve, 3D-RAVE	
Cylinders	2	
Displacement	594.4 cm <sup>3</sup> (36.27 in <sup>3</sup> )	
Bore	72 mm (2.83 in)	
Stroke	73 mm (2.87 in)	
Maximum horsepower engine RPM	8100 RPM	
Fuel injection system	Semi-direct injection (SDI)	
Exhaust system	Single tuned pipe, baffle muffler	
Engine oil	XPS synthetic blend 2-stroke oil (P/N 293 600 101)	
Engine oil tank capacity	2.8 L (94.7 U.S. oz)	
Coolant	Ethyl glycol/water mix (50% coolant, 50% distilled water). Use BRP premix coolant or coolant specifically designed for aluminum engines	
Recommended fuel type	Unleaded	
Minimum octane rating	Inside North America	(87 (RON + MON)/2)
	Outside North America	92 RON
Fuel tank capacity	45 L (11.9 U.S. gal.)	
<b>ENGINE</b>		<b>1200 4-TEC</b>
Engine type	Rotax 1203, liquid cooled, 4-Stroke, D.O.H.C. with balancer shaft, dry sump	
Cylinders	3	
Displacement	1 170.7 cm <sup>3</sup> (71.44 in <sup>3</sup> )	
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	XPS™ Winter grade oil	
Engine oil tank capacity	Oil change with filter: 3.5 L (3.7 qt (U.S. liq.))	
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	45 L (11.9 U.S. gal.)	

<b>DRIVE SYSTEM</b>			
Drive pulley	Type	TRA III™	
	Engagement	600 HO SDI	3000 RPM ± 100
		1200 4-TEC	2500 RPM ± 100
Driven pulley type		QRS	
Drive sprocket number of teeth		9	
Gearbox oil		XPS synthetic chaincase oil	
Gearbox oil capacity		700 ml (23.7 U.S. oz)	
Track nominal width		500 mm (20 in)	
Track nominal length		3 968 mm (156 in)	
Track profile height		31.8 mm (1.25 in)	
Track tension	Deflection	40 mm to 50 mm (1.575 in to 1.969 in)	
	Force <sup>(1)</sup>	7.3 kg (16 lb)	
Track alignment		Equal distance between edges of track guides and slider shoes	
<b>BRAKE SYSTEM</b>			
Brake system		Hydraulic, REV-XP brake type	
Brake fluid		DOT 4	
<b>SUSPENSION</b>			
Front suspension		REV-XP	
Front shock	Canada/U.S.	Motion control	
	Europe	HPG™	
Front suspension max. travel		210 mm (8.3 in)	
Rear suspension		RGC - A	
Front arm shock	Canada/U.S.	Motion control	
	Europe	HPG	
Rear arm shock		HPG	
Rear suspension max. travel		340 mm (13.4 in)	

**SPECIFICATIONS**

<b>ELECTRICAL SYSTEM</b>		<b>600 HO SDI</b>
Lightning system output		12V/480 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 BR8ECS <sup>(2)</sup>
	Gap	Not adjustable, 0.8 mm (.031 in)
Fuses/Relays/Capacitor	F 1: HIC	5 A
	F 2: HIC	5 A
	F 3: CDI	5 A
	F 4: Gauge/E-Rave	10 A
	F 5: HIC/Fuel pump	10 A
	F 6: Rear light	10 A
	F 7: Headlights	15 A
	F 8: Rear 12-volt power outlet (optional)	5 A
	F 9: Start	7.5 A
	F 10: Front 12-volt power outlet	5 A (10 A with optional horn)
	F 11: Fan	10 A
	F 12: Capacitor	20 A
	F 13: Battery	30 A
	R 1: Run relay	-
R 2: Load relay	-	
R 3: Fan relay	-	
R4: Capacitor	-	

ELECTRICAL SYSTEM		1200 4-TEC
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 <sup>(2)</sup>
	Gap	Not adjustable
Fuses/Relays	F 1: HIC/CDI	5 A
	F 2: Fuel pump	10 A
	F 3: HIC	5 A
	F 4: HIC	5 A
	F 5: HIC	5 A
	F 6: Rear light	10 A
	F 7: Headlights	15 A
	F 8: Relay/Gauge	10 A
	F 9: Relay/Gauge	7.5 A
	F 10: Fan	15 A
	F 11: Rear power outlet	5 A (10 A with optional horn)
	F 12: Unused	-
	F 13: Charging	30 A
	R 1: Load relay	-
	R 2: Fan relay	-
R 3: Run relay	-	
DIMENSIONS AND WEIGHT		
Dry weight	Expedition TUV 600 HO SDI	282 kg (622 lb)
	Expedition TUV SE 600 HO SDI	301 kg (664 lb)
	Expedition TUV 1200 4-TEC	317 kg (699 lb)
	Expedition TUV SE 1200 4-TEC	336 kg (741 lb)
Vehicle overall length		3 230 mm (127 in)
Vehicle overall width		1 135 mm (44.7 in)
Vehicle overall height		1 310 mm (51.6 in)
Ski stance		1 038 mm (41 in)
Ski width		175 mm (6.9 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***

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# TECHNICAL GUIDELINES

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## ELECTRIC STARTER DOES NOT WORK

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

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## ENGINE RPM DOES NOT REACH CLUTCH ENGAGEMENT POINT

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

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## 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.

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## 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 ignition system failure.
  - Contact an authorized SKI-DOO dealer.

## ENGINE MISFIRES

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**1. Water in fuel.**

- *Drain fuel system and refill with fresh fuel.*

**2. RAVE valves malfunction.**

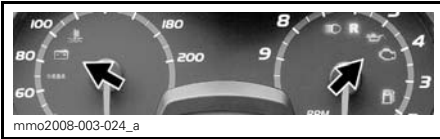
- *Have RAVE valves system inspected by an authorized SKI-DOO dealer.*

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# MONITORING SYSTEM

## Pilot Lamps, Messages and Beeper Codes

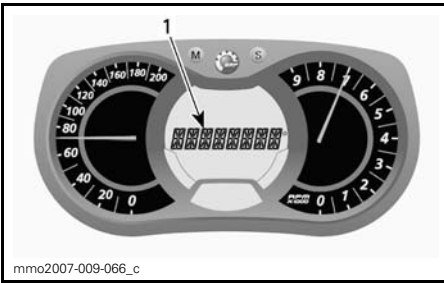
Gauge pilot lamp(s) will inform you if an anomaly occurs or to inform you of a particular condition.



*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: Some of the listed pilot lamps and messages do not apply to all models.

PILOT LAMP(S) ON	BEEPER	MESSAGE DISPLAY	DESCRIPTION
	4 short beeps every 30 seconds	ENGINE OVERHEAT	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 OVERHEAT	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 OVERHEAT	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.
		ECM OVERHEAT	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.
	4 short beeps every 5 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 5 minutes	KNOCK	Engine detonation (RPM is limited when this condition occurs). <ul style="list-style-type: none"> <li>– Ensure recommended fuel is used.</li> <li>– Check fuel quality, replace if necessary.</li> <li>– If fault still occurs, contact an authorized Ski-Doo dealer.</li> </ul>

PILOT LAMP(S) ON	BEEPER	MESSAGE DISPLAY	DESCRIPTION
—	4 short beeps every 5 minutes	REV LIMIT	Engine RPM limited for protection when certain faults occur.
—	Short beeps repeating rapidly	SHUTDOWN	Shutdown procedure in force due to engine overheating or fuel pump problem, remove tether cord cap (D.E.S.S.D.E.S.S. key) and contact an authorized Ski-Doo dealer.
—	—	COMMUNICATION	Communication problem between ECM and gauge. Stop engine, remove tether cord cap (D.E.S.S. key). Wait a few minutes, then start engine. If problem persists, contact an authorized Ski-Doo dealer.
<b>D.E.S.S.</b>	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.
—	—	 (blinking)	Fuel level sender problem.
—	—	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.

## How to Read Fault Codes

To read any active fault code, 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***

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# **BRP LIMITED WARRANTY USA AND CANADA: 2010 SKI-DOO® SNOWMOBILES**

## **1) SCOPE OF THE LIMITED WARRANTY**

Bombardier Recreational Products Inc. ("BRP")\* warrants its 2010 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 2010 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 (1) the date of delivery to the first retail consumer or (2) the date the product is first put into use, whichever occurs first and for a period of:

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

Exhaust emission-related components that are installed on EPA certified snowmobiles registered in the USA are covered for thirty (30) consecutive months or 200 hours 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. Evaporative emission related components that are installed on EPA certified snowmobiles registered in the USA are warranted for twenty-four (24) consecutive months.

To obtain a list of the current warranted emission-related components, please see an authorized Can-Am dealer.

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

#### **5) CONDITIONS TO HAVE WARRANTY COVERAGE**

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

- The 2010 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 2010 Ski-Doo snowmobile must be purchased in the country in which the purchaser resides; and
- 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, 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.**

Warranty Department  
75 J.-A. Bombardier Street  
Sherbrooke QC J1L 1W3  
Canada  
Fax: 819 566-3590

### **In USA**

#### **BRP US INC.**

Warranty Department  
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: 2010 SKI-DOO® SNOWMOBILES**

## **1) SCOPE OF THE LIMITED WARRANTY**

Bombardier Recreational Products Inc. ("BRP")\* warrants its 2010 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 2010 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 (1) the date of delivery to the first retail consumer or (2) the date the product is first put into use, whichever occurs first and for a period of:

TWELVE (12) CONSECUTIVE MONTHS, for private or commercial use owners. However, the warranty coverage period on a snowmobile delivered between June 1<sup>st</sup> and December 1<sup>st</sup> of a given year will expire November 30<sup>th</sup> 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 2010 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 2010 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 labour, 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 European countries please contact our Finland office:**

**BRP FINLAND OY**

Service Department  
Isoaavantie 7  
FIN-96320 Rovaniemi  
Finland  
Tel.: +358 163 208 111

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

**BRP EUROPE N.V.**

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

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

**BOMBARDIER RECREATIONAL PRODUCTS INC.**

Customer Assistance Center  
Warranty Department  
75 J.-A. Bombardier Street  
Sherbrooke QC J1L 1W3  
Canada  
Tel.: +1 819 566 3366

You will find your distributor's coordinates on [www.brp.com](http://www.brp.com).

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# **BRP LIMITED WARRANTY FOR THE EUROPEAN ECONOMIC AREA: 2010 SKI-DOO® SNOWMOBILES**

## **1) SCOPE OF THE LIMITED WARRANTY**

Bombardier Recreational Products Inc. ("BRP")\* warrants its 2010 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 2010 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 WARRANTIES. 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 (1) the date of delivery to the first retail consumer or (2) the date the product is first put into use, whichever occurs first and for 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 1<sup>st</sup> and December 1<sup>st</sup> of a given year will expire November 30<sup>th</sup> 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 2010 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 2010 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 labour, 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:

### BRP FINLAND OY

Service Department  
Isoaavantie 7  
FIN-96320 Rovaniemi  
Finland  
Tel.: +358 163 208 111

You can find your distributor's coordinates on [www.brp.com](http://www.brp.com).

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# ***CUSTOMER INFORMATION***

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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 QC J1L 1W3  
Canada  
Fax: 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  
Isoaavantie 7  
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](http://www.brp.com)).**

**B) Our North American office:**

Warranty Department  
75 J.-A. Bombardier Street  
Sherbrooke QC J1L 1W3  
Canada  
Fax: 819 566-3590

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# 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 QC J1L 1W3  
Canada  
Fax: 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  
Isoaavantie 7  
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](http://www.brp.com)).

### **B) Our North American office:**

Warranty Department  
75 J.-A. Bombardier Street  
Sherbrooke QC J1L 1W3  
Canada  
Fax: 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.











520 000 911

CA

OPERATOR'S GUIDE, EXPEDITION TUV SERIES / ENGLISH  
GUIDE DU CONDUCTEUR, SÉRIE EXPEDITION TUV / ANGLAIS

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