SKI-UUU. BRP



# 2008 Onerat

Operator's Guide

# **REV**™SERIES

Safety, Vehicle and Maintenance Information

### **WARNING**

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

520 000 682

### SAFETY WARNING

Disregarding any of the safety precautions and instructions contained in this Operator's Guide, *SAFETY VIDEO* or on-product warnings may result in injury, including the possibility of death. This Operator's Guide and *SAFETY VIDEO* should remain with the snowmobile at time of resale.



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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.

The Operator's Guide has been prepared to acquaint the owner/operator and passenger with this new snowmobile and its various controls, maintenance and safe riding instructions. This guide is indispensable for the proper use of the product and should be kept with this snowmobile at all times.

Make sure you read and understand the content of this Operator's Guide.

After reading, please keep this Operator's Guide with the snowmobile. If the snowmobile is resold, please give the guide to the new owner for his awareness.

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**. Also note that the guide is available in several languages.

If you have any question regarding any topic whether or not it is covered in this Operator's Guide, please call BRP at the number below and we will be happy to assist you:

In USA: 715 848-4957

In Canada: 819 566-3366

For Russia, CIS and the middle east:

+ 32 9 218 26 00

For Scandinavian and European countries:

+ 358 16 3208 111

For all other countries, please contact your respective distributor (his coordinates are on www.brp.com) or our North American office:

+ 1 819 566-3366

This guide uses the following safety alert symbol in conjunction with signal words to indicate a potential personal injury hazard.

### **⚠** WARNING

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

### **⚠** CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. When used without the safety alert symbol  $\Delta$ , potential hazard exists for property damage only.

NOTE: Indicates supplementary information needed to fully complete an instruction.

Although the mere reading of such information does not eliminate the hazard, the understanding and application of the information will promote the correct use of the vehicle.

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, your dealer would have explained the snowmobile controls and provided you with a brief explanation of the various suspension adjustments. We trust you have taken full advantage of this!

At delivery, you were also informed of the warranty coverage and have completed the Warranty Registration process.

The information and components/system descriptions contained in this guide are correct at 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.

Because of its ongoing commitment to product quality and innovation, BRP reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring obligation.

The illustrations in this document show the typical construction of the different assemblies and, in all cases, may not reproduce the full detail or exact shape of the parts shown, however, they represent parts which have the same or a similar function.

It is understood that this guide may be translated into another language. In the event of any discrepancy, the English version shall prevail.

Specifications are given in the SI metric system with the SAE U.S. equivalent in parentheses. Where precise accuracy is not required, some conversions are rounded off for easier use.

Most components of this snowmobile are built with parts dimensioned in the metric system. Most fasteners are metric and must not be replaced by customary fasteners or vice versa.

We recommend genuine BRP products for replacement parts and accessories. They've been specially designed for your vehicle and manufactured to meet BRP's demanding standards.

A SHOP MANUAL can be obtained for complete service, maintenance and more repair information.

For any questions pertaining to the warranty and its application, consult the *WARRANTY* section in this guide, and/or an authorized SKI-DOO dealer.

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## SAFETY INFORMATION

### INTRODUCTION

Everyone is a beginner the first time he sits behind the controls of a snowmobile regardless of previous experience in driving an automobile, a motorcycle or a motorboat. The safe use of your snowmobile is dependent on many conditions such as visibility, speed, weather, environment, traffic, vehicle condition and the condition of the driver.

Each operator has a responsibility to ensure the safety of his/her passenger, if any, and 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.

### IMPORTANT BASIC SAFETY MEASURES

### **Training**

- ▲ Basic training is required for the safe operation of any snowmobile. Study your Operator's Guide paying particular attention to cautions and warnings. Join your local snowmobile club: its social activities and trail systems are planned for both fun and safety. Obtain basic instructions from your snowmobile dealer, friend, fellow club member or enroll in your state or provincial safety training program.
- ▲Always show a new operator how to start and stop the vehicle. Indicate the correct riding positions and, above all else, only allow him to operate the snowmobile in a restricted flat area at least until he is completely familiar with its operation. If there is a local snowmobile operator's training course existing, have him enroll.

### Performance

- ▲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.

### Age

△BRP recommends the operator has at least 16 years old of age.

### Speed

△ 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.

### Ridina

▲ Always keep right hand side of the trail.

- $\Delta$  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 after consuming drugs or alcohol or if you feel tired or ill. Operate your snowmobile prudently.
- ⚠ Your snowmobile is not designed to be operated on public streets, roads or highways.
- △ Snowmobiling at night can be a delightful experience but because of reduced visibility, be extra cautious. Avoid unfamiliar terrain and be sure your lights are working. Always carry a flashlight and spare light bulbs.
- ⚠ 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.
- $\Delta$  Hidden wires unseen from a distance can cause serious accidents.
- △ Always wear an approved safety helmet, eye protection and a face shield. This also applies to your passenger.
- ⚠ Be aware of inherent risks associated with riding off trails, such as avalanche and other natural or man made hazards or obstacles.
- △ Avoid road traveling. If you must do so, and it is permitted, reduce speed. The snowmobile is not designed to operate or turn on paving. When crossing a road, make a full stop, then look carefully in both directions before crossing at a 90° angle. Be wary of parked vehicles.
- ▲ Tailgating another snowmobile should be avoided. If the snowmobile in front of you slows for any reason, its driver and passenger could be harmed through your neglect. Maintain a safe stopping distance between you and the snowmobile in front of you. Depending on the terrain condition, stopping may require a little more space than you think. Play it safe. Be prepared to use evasive driving.

- △ Venturing out alone with your snowmobile could also be hazardous. You could run out of fuel, have an accident, or damage your snowmobile. Remember, your snowmobile is capable of traveling further in half an hour than you may be able to walk in a day. Use the "buddy system". Always ride with a friend or member of your snowmobile club. Even then, tell someone where you are going and the approximate time you plan to return.
- ⚠ Meadows sometimes have low areas where water accumulate and freezes over in winter. This ice is usually glare ice. Attempting to turn or brake on this surface could cause your vehicle to spin out of control. Never brake or attempt speeding or turning on glare ice. If you do happen to travel over such a condition, reduce speed by carefully releasing the throttle.
- △ Never "jump" with your snowmobile. This should be left to professional stunt men. Don't show off. Be responsible.
- ⚠ While on safari, do not "gun" the throttle. Snow and ice can be thrown back into the path of a following snowmobile. In addition, when "gunning" the throttle, the vehicle digs into and leaves an irregular snow surface for others.
- △ Safaris are both fun and enjoyable but don't show off or overtake others in the group. A less experienced operator might try to do the same as you and fail. When riding with others, limit your abilities to the experience of others.

### Operation

- $\Delta$  Always make a pre-start inspection BEFORE you turn on the ignition.
- ▲In an emergency, the snowmobile engine can be stopped by activating the engine cut-out switch, pulling the tether cord cap or turning off the ignition switch key.
- ▲Throttle mechanism should be checked for free movement and return to idle position before starting engine.
- ▲ Always engage parking brake when vehicle is not in use.
- △ Never run the engine in a non-ventilated area and/or if vehicle is left unattended.
- ⚠ Never operate the engine without belt guard securely installed or, with hood or access/side panels open 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.
- ▲ Electric start models only: Never charge or boost a battery while installed on snowmobile

- $\Delta$  Ensure the path behind is clear of obstacles or bystanders before proceeding in reverse.
- ▲Always remove the ignition key (if applicable) or the tether cord
  cap when vehicle is not in operation in order to prevent accidental
  engine starting, to avoid unauthorized use by children or others or
  theft.
- ⚠ Raising the rear of your snowmobile while the engine is running could cause snow, ice or debris to be thrown back at an observer. Never raise the rear of the vehicle while the engine is running. To clear or inspect the track, stop the engine, tilt the vehicle on its side and remove blockage with a piece of wood or branch. Never allow anyone near a rotating snowmobile track.

### Maintenance

- ⚠ Know your snowmobile and treat it with the respect and care due
  of any power driven machine. Common sense, proper handling
  and routine maintenance will result in safer and enjoyable use.
- △ Only perform procedures as detailed in this guide. Unless otherwise specified, engine should be turned OFF and cold for all lubrication, adjustment and maintenance procedures.
- ▲ Never have the engine running while the hood is open. Even at idle, a snowmobile engine is turning around 1,800 revolutions per minute. Always turn off the ignition before opening the hood for any reason.
- ▲ Never remove any original equipment from your snowmobile. Each vehicle has many built in safety features. Such features include various guards and consoles, plus reflective materials and warning labels.
- ▲ A poorly maintained snowmobile itself can be a potential hazard. Excessively worn components could render the vehicle completely inoperative. Keep the snowmobile in good working condition at all times. Follow your pre-operation check, weekly, monthly and annually routine maintenance and lubrication procedures as detailed in this guide. Consult a snowmobile dealer or acquire a shop manual and proper tools and equipment if other repairs or service is required.
- △ Do not stud the track unless it as been approved for studs. At speed, a studded track that as not been approved for studs could tear and separate from vehicle posing a risk of severe injury or death.

#### Fuel

▲ 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.

### **Basics for Passenger**

- ⚠ Never ride as a passenger unless the snowmobile is equipped with a passenger seat, and sit only on the designated passenger seat.
- ▲ Always wear a DOT approved helmet and follow the same dressing guidelines as those recommended for the operator and described in this guide.
- ♠ Once underway, if you feel uncomfortable or insecure for any reason, don't wait, tell the driver to slow down or stop.

### LAWS AND REGULATIONS

▲ 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.

### RIDING THE VEHICLE

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.

### **Principle of Operation**

### **Propulsion**

Depressing throttle lever increases engine RPM causing the drive pulley to engage. Depending on models, engine RPM must be between 2500 and 4200 before drive pulley engagement will occur.

Outer sheave of drive pulley moves toward inner sheave, forcing the drive belt to move upward on the drive pulley and simultaneously forcing the sheaves apart on the driven pulley.

The driven pulley senses the load on the track and limits the belt movement. The result is an optimized speed ratio between engine RPM and the speed of the vehicle at any time.

### **⚠ WARNING**

Never operate engine without belt guard securely installed or, with hood or access/side panels open or removed.

Power is transferred to the track through the chaincase and drive axle.

### **↑** WARNING

Always use a wide-base snowmobile mechanical stand to properly support vehicle during any track verification. Slowly accelerate engine in order to rotate track at very low speed when it is not on ground.

### Turning

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

### Stopping

Before riding your snowmobile, you should understand how to stop it. This is done by releasing the throttle and gradually depressing the brake lever on the left side of the handlebar. In an emergency, you may stop your vehicle by pressing the engine cut-out switch located near the throttle control and applying the brake. Remember, a snowmobile cannot "stop on a dime". Braking characteristics vary with deep snow, packed snow or ice. If the track is locked during hard braking, skidding may result.

#### How to Ride

#### How to Dress

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.

DOT approved helmets are recommended at all times. They provide both warmth and reduce injury. A stocking type cap, balaclava and face mask should always be carried or worn. Goggles or a face shield that attach 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 starter rope
- spare light bulbs

- tool kit (including at least pliers, screwdriver, adjustable wrench)
- knife
- flashlight.

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

### Riding Position

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

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

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

### 

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

### Sitting

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



### **Posting**

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



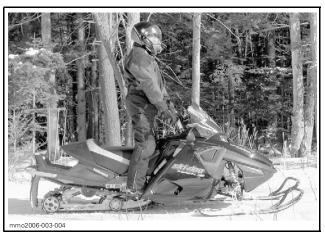
### Kneeling

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



### Standing

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



### Carrying a Passenger

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

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

### **⚠** WARNING

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

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

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

### **⚠** WARNING

- Passengers must only sit on designated passenger seats.
   Never allow anyone to sit between the handlebar and the operator.
- Each passenger seat must have a strap or grab handles and meet SSCC standards.
- Passengers and operators must always wear DOT approved helmets and warm clothing appropriate for snow-mobiling. 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 section of this Operator's Guide entitled SUSPENSION ADJUSTMENTS

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.



### **Road Crossing**

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

### Railroad Crossing

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

### Night Rides

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

### Safari Riding

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

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

### Signals

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

### Trail Stops

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

### Trails and Signs

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

### **Transporting and Towing**

Follow transporting and towing instructions explained further in this guide.

### TRACTION ENHANCING PRODUCTS

**NOTE:** This section is applicable to snowmobiles equipped with a factory installed pre-studded or for a track approved by BRP for studs installation.

### **⚠** WARNING

Never stud a track that has not been approved for studs. Installing studs on an unapproved track could increase the risk of the track tearing or severing, possibly resulting in serious injury or death.

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

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

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

### Manoeuvrability

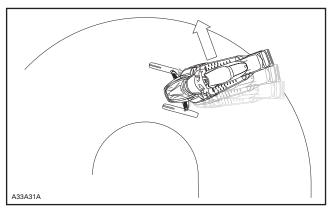
Using traction enhancing products such as, more aggressive ski carbide runners and/or studs makes the snowmobile grip the ground better at the rear. The use of carbide runners is therefore required to give the skis a better grip, so that the front and rear of the snowmobile are in balance. While off-the-shelf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

### **↑** WARNING

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

### Oversteering

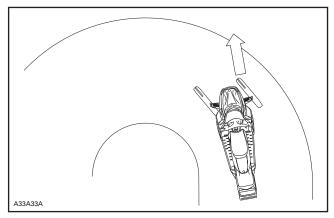
In certain conditions, using more aggressive carbide ski runners without studs on the rear track could make the snowmobile prone to oversteering, see illustration.



**OVERSTEERING** 

### Understeering

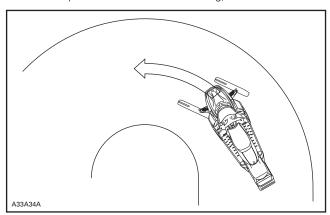
In certain conditions, the use of studs on the track could make the snowmobile prone to understeering if the skis are not equipped with more aggressive carbide runners, see illustration.



**UNDERSTEERING** 

### Controlled Driving

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



CONTROLLED DRIVING

### Acceleration

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

### **⚠** WARNING

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

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

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

#### **Braking**

As in the case of acceleration, using studs on the track will give you better braking capacity on packed snow or ice but will have no noticeable effect on soft snow. Braking may thus vary suddenly under certain conditions. Be sure to use restraint in braking to keep from blocking the track in order to avoid surprises that could lead to a loss of control.

#### **Important Safety Rules**

# $oldsymbol{\Delta}$ warning

To prevent serious injury to individuals near the snowmobile:

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

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

# Effects of Traction Enhancing Products on the Life of the Snowmobile

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

Studs on the track can also cause serious damage to your snowmobile if it is not equipped with the tunnel protectors designed for your particular model. Damage to the electrical wiring or perforation of the heat exchangers are potential hazards, that could cause the engine to overheat and be severely damaged.

# **⚠** WARNING

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

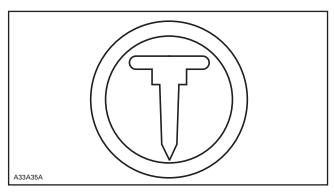
**CAUTION:** Ask your dealer for the appropriate tunnel protectors model and kit number required for your snowmobile.

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

#### Installation of Studs on BRP Approved Tracks

# $oldsymbol{\Lambda}$ warning

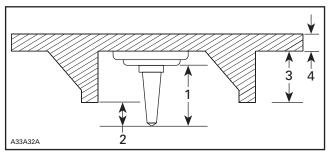
Never stud a track that has not been approved for studs. Approved tracks can be identified by a stud symbol (see illustration below) molded into the track surface. Installing studs on an unapproved track could increase the risk of the track tearing or severing, possibly resulting in serious injury or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



APPROVED TRACKS CAN BE IDENTIFIED BY THIS SYMBOL

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

- Use only studs, mounting plates and nuts sold by BRP.
- Never use studs that exceed the height of your snowmobile's track profile by more than 9.5 mm (3/8 in).



#### INSTALLATION OF STUDS

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

# **⚠ WARNING**

- Studs should only be installed in the locations indicated by molded bulges in the track surface.
- Never stud a track with a profile of 35 mm (1.375 in) or more.
- The number of studs installed must always perfectly match the pattern of molded bulges in the track.
- Always consult the traction product manufacturer's installation instructions and recommendations before having your dealer install studs and runners. It is very important to follow the torque specifications for the stud bolts.

INSTALLING AN INCORRECT NUMBER OF STUDS OR AN IMPROPER INSTALLATION CAN INCREASE THE RISK OF THE TRACK TEARING OR SEVERING, POSSIBLY RESULTING IN SERIOUS INJURY OR DEATH.

#### Maintenance/Replacement

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

Look for any defects, such as:

- perforations in the track
- tears in the track (particularly around traction holes on studded tracks)
- lugs that are broken or torn off, exposing portions of rods
- delamination of the rubber
- broken rods

- broken studs (studded tracks)
- bent studs (studded tracks)
- missing studs
- studs that are torn off the track
- missing track guide(s)
- also, ensure that studs nut are tighten to the recommended torque.

On pre-studded tracks, broken or missing studs can not be replaced.

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

# **⚠** WARNING

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

#### LOCATION OF THE IMPORTANT LABELS

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

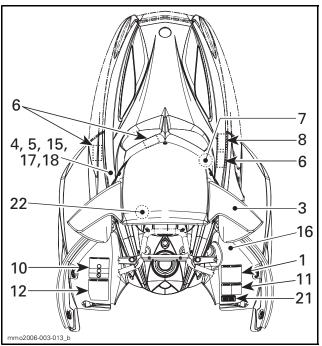
This label shows that an independent testing laboratory has verified compliance with the SSCC safety standards.

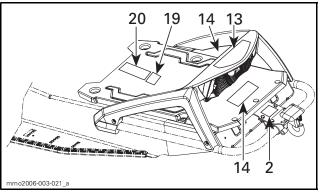


Other important labels on the vehicle are WARNING or CAUTION labels relating to safety, maintenance and/or snowmobile operation. Ensure all such labeling is retained on the vehicle and its content is followed by vehicle operator and passenger.

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

Please read the following instructions carefully before operating this snowmobile.





TYPICAL — LOCATION OF IMPORTANT INSTRUCTIONS

#### **A WARNING**

#### BEFORE STARTING :

- 1. Attach tether cord to your clothing.
- 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.
- Turn handlebars all the way
   in both directions to check for
   interference and insure free operation.

#### AFTER STARTING:

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

#### **A AVERTISSEMENT**

#### AVANT DE DÉMARRER :

- Attachez le cordon coupe-circuit à votre vêtement.
- Vérifiez le bon fonctionnement des manettes d'accélérateur et de frein avant chaque démarrage. Elles doivent revenir à leur position initiale lorsque relâchées.
- 3. Engagez le frein de stationnement.
- Tourner le guidon au maximum de chaque côté pour vérifier les interférences et le libre fonctionnement.

#### APRÈS LE DÉMARRAGE :

- Déconnectez le cordon coupe-circuit pour vérifier qu'il arrête le moteur.
- Redémarrez et enfoncez le bouton d'arrêt d'urgence pour vérifier qu'il arrête le moteur.
- 3. Désengagez le frein de stationnement avant le départ pour éviter la surchauffe et la perte du frein.

A33A2CA

#### Instruction 2

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

DRAWBAR XXX Kg / XXX lbs Max. VERTICAL LOAD XX Kg / XX lbs Max.

### **A WARNING**

mmo2007-002-001\_en

**EUROPEAN MODELS** 

# **CAUTION**

- To comply with noise regulations, this engine is designed to operate with an air intake silencer.
- Operation without air intake silencer or with one not properly installed may cause engine damage.

## **ATTENTION**

- Le moteur a été conçu pour fonctionner avec ce silencieux d'admission afin de se conformer aux lois et réglements relatifs au bruit.
  - Son absence ou une mauvaise installation peut endommager le moteur.

A01A2EA

#### Instruction 4

# **A WARNING**

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

# **A 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

516 001 191

A33A2FA



Do not disassemble or modify this pulley.

# **A** AVERTISSEMENT

Ne pas démonter ni modifier cette poulie.

516 001 726

mmo2006-003-006 a

FAN COOLED MODELS

#### Instruction 6

# **AWARNING**

Beware of HOT parts!

# **A** AVERTISSEMENT

Attention aux pièces CHAUDES!

516002664

A33A2GA



LIQUID COOLED MODELS

#### Instruction 8

#### **CAUTION**

Use XP-S™ 2-Stroke Synthetic blend

XP-S™ Synthetic 2-Stroke oil.

A33A2HA

#### **ATTENTION**

Utilisez de l'huile semi-synthétique 2-temps XP-S<sub>MD</sub> ou synthétique 2-temps XP-S<sub>MD</sub>.

516 002 325A

SDI MODELS



SOME MODELS — SINGLE SEAT

# DO NOT SIT HERE / NE PAS S'ASSEOIR ICI

SOME MODELS — SINGLE SEAT

A33A2IA

#### Instruction 10

#### **A WARNING**

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.

#### **A AVERTISSEMENT**

TOUS LES CONDUCTEURS ET PASSAGERS DOIVENT LIRE CE QUI SUIT:

Évitez les surprises! SOYEZ AUX AGUETS pour les imprévus. Conduisez défensivement.

- Scrutez constamment pour repérer personnes, objets, conditions et autres véhicules.
- Évitez la glace mince / étendue d'eau non gelée.
- · Redoublez de vigilance hors sentier.

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



TOUJOURS porter un CASQUE approuvé DOT et des vêtements appropriés à la motoneige.

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



Ne JAMAIS utiliser une motoneige sous l'influence de drogues ou alcool même en tant que passager.

51600264

A33A2JA

TYPICAL

## **AWARNING**

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.

A33A2KA

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

#### **A AVERTISSEMENT**

Ce véhicule a été conçu pour un (1) conducteur et autant de passagers qu'il y a de sièges avec courroies ou poignées installés sur le véhicule et rencontrant la norme SSCC.

Lors de la conduite avec passager :

- La capacité de freinage et la direction sont réduites. Réduisez votre vitesse et prévoyez plus d'espace pour manœuvrer.
- Ajustez les suspensions selon le poids.

N'OUBLIEZ PAS : VOUS ÊTES RESPONSABLE DE LA SÉCURITÉ DE VOTRE PASSAGER!

516 002 672

**SAFETY INFORMATION** 

#### **A 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 snowmobile.
  Inexperienced riders may overlook risks and be surprised by snowmobile's specific behavior and terrain conditions.
  Bide slowly.

  Output

  Description

  Descriptio
- 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.

#### **A AVERTISSEMENT**

- Lire et comprendre toutes les étiquettes d'avertissements et le guide du conducteur avant utilisation. Si le guide est introuvable, demandez-en un nouveau à votre concessionnaire.
- Familiarisez-vous avec votre motoneige.

Les motoneigistes inexpérimentés peuvent sous-estimer les risques et être surpris par le comportement spécifique de la motoneige et des conditions du terrain. Conduisez lentement.

- La vitesse excessive et la conduite irresponsable peuvent causer la mort!
   TOUJOURS adapter votre vitesse selon les conditions de neige et les circonstances environnantes.
- Le contrôle de la direction et le freinage peuvent être réduits sur la neige compactée, la glace ou les routes. Réduisez votre vitesse et allouez plus d'espace pour tourner ou freiner.
- Respectez les lois sur l'âge minimal du conducteur.
  Le manufacturier recommande que le conducteur soit âgé d'au moins 16 ans.

516 002 671

A33A2MA

#### Instruction 13

#### **A** 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.

#### A AVERTISSEMENT

- NE JAMAIS SE TENIR DERRIÈRE ou près d'une chenille qui tourne.
- Seulement faire tourner la chenille à la vitesse la plus basse possible lorsque soulevée de terre. Une chenille brisée ou des débris pourraient être projetés avec grande puissance pouvant sectionner une jambe ou causer d'autres blessures sérieuses.

A33A2NA

#### **A WARNING**

NEVER SIT IN CARGO AREA.

Exceeding maximum cargo load may affect steering control and braking ability.

MAXIMUM cargo load: XX Kg /XX Lbs.

mmo2007-002-002

#### A AVERTISSEMENT

NE JAMAIS S'ASSEOIR À LA PLACE DU CARGO

Excéder le poids maximal du cargo peut affecter le contrôle de la direction et la capacité de freinage.

Charge MAXIMALE cargo:

XX Ka / XX Lbs.

#### Instruction 15

#### WARNING

#### EMERGENCY STARTING

- . NEVER wind rope around your hand.
  - · If starter clip remained stuck, your hand could be pulled in by the clutch.
- · See operator's guide for proper procedure.



#### **A AVERTISSEMENT**

#### DÉMARRAGE D'URGENCE

- Ne JAMAIS enrouler la corde autour de votre main.
- · Si l'agraffe restait attachée sur la poulie motrice, votre main pourrait être entraînée dans la poulie.
- Voir votre quide de l'opérateur pour connaître la méthode d'utilisation adéquate.





A33A2PA

#### Instruction 16

#### A AVERTISSEMENT

Le condensateur peut produire une étincelle si court-circuité.

- Une étincelle peut enflammer les vapeurs d'essence.
- Garder tout objet éloigné des bornes.
- Si démonté du véhicule. toujours décharger adéquatement.

#### WARNING

Capacitor May Spark If Shorted.

- Spark can ignite fuel vapors.
- Keep objects away from poles.
- When removing from vehicle, always

discharge properly.

CAPACITOR CONDENSATEUR

A33A20A

SDI MANUAL START MODELS

#### CAUTION

This snowmobile is calibrated for SEA-LEVEL operation.

Operating above 2000 ft requires parts and adjustments.

For more details contact your authorized Ski-Doo dealer.

Failure to make adjustments will result in a noticeable lack of performance and may cause serious damage to certain parts.

#### ATTENTION

Cette motoneige est calibrée en fonction d'une utilisation au NIVEAU DE LA MER. Une utilisation au-delà de 600 mètres nécessite un réglage et l'installation de certaines pièces. Pour plus de détails, consulter un concessionnaire autorisé de motoneiges Ski-Doo. Sans ce réglage, un manque de performance sera remarqué et certaines pièces peuvent être gravement endommagées.

MAXIMUM HORSEPOWER/RPM CHART
TABLEAU RÉGIME DE PUISSANCE MAXIMALE
Engine Type-Moteur RPM-TR/MN (+/-100)

516 002 73

mmo2006-003-009 a

SUMMIT FAN COOLED MODELS — FUROPE

#### CAUTION

This snowmobile is calibrated for operating at an altitude of 6000 ft.

Operating at other than 6000 ft (+/- 1000 ft) requires parts and adjustments.

For more details contact your authorized Ski-Doo dealer.

Failure to make adjustments will result in a noticeable lack of performance and may cause serious engine damage.

# ATTENTION Cette motoneige est calibrée en fonction d'une utilisation à une altitude de 1800 mètres.

Une utilisation autre que 1800 mètres (+/- 300 mètres) nécessite un réglage et l'installation de certaines pièces. Pour plus de détails, consulter un concessionnaire autorisé de motoneiges Ski-Doo. Sans ce réglage, un manque de performance sera remarqué et le moteur pourrait être gravement endommagé.

MAXIMUM HORSEPOWER/RPM CHART
TABLEAU RÉGIME DE PUISSANCE MAXIMALE
Engine Type-Moteur RPM-TR/MN (+/-100)
XXX XXXXX

.....

516 002 740

mmo2006-003-010 a

SUMMIT FAN COOLED MODELS - NORTH AMERICA

This snowmobile is calibrated for operating at altitudes between 2000 ft and 8000 ft. Refer to following chart for correct maximum horsepower/RPM. Operating this snowmobile below 2000 ft OR above 8000 ft requires calibration parts, adjustments and

> TRA drive pulley roller pin weights MUST be changed. For more details contact your authorized Ski-Doo dealer. Failure to re-calibrate may cause serious engine damage.

#### MAXIMUM HORSEPOWER/RPM CHART TABLEAU RÉGIME DE PUISSANCE MAXIMALE

Engine Type•Moteur	RPM•TR/MN (+/-100)
xxx	xxxx
xxx	xxxx
xxx	xxxx

Cette motoneige est calibrée en fonction d'une utilisation en altitude situé entre 600 mètres et 2400 mètres. Se référer au tableau suivant pour connaître le régime de puissance maximale TR/MN. Si on utilise cette motoneige à moins de 600 mètres et au delà de 2400 mètres, il est nécessaire de la régler, d'installer certaines pièces de calibration ainsi que de changer le poids des goupilles des rouleaux assemblés de la poulie TRA. Pour plus de détails, consulter un concessionnaire autorisé de motoneiges Ski-Doo. Sans ce réglage, le moteur peut-être gravement endommagé.



Adjust all three drive pulley bolts to same position. Increase number = Increase RPM. Decrease Number = Decrease RPM. Régler tous les boulons de la poulie motrice à la même position.

Diminuer le numéro = Diminuer le régime TR/MN

mmo2006-003-011 a

SUMMIT LIQUID COOLED MODELS — NORTH AMERICA

# CAUTION

This snowmobile is calibrated for SEA-LEVEL operation. Operating this snowmobile above 2000 ft. requires calibration parts and adjustments.

Refer to following chart for correct maximum horsepower RPM, For more details, refer to Operator's Guide or see vour authorized Ski-Doo dealer.

Incorrect adjusments may cause parts damage.

#### MAXIMUM HORSEPOWER/RPM CHART TABLEAU RÉGIME DE PUISSANCE MAXIMALE

Engine Type•Moteur	RPM•TR/MN (+/-100)	
XXX	xxxx	
xxx	xxxx	
XXX	xxxx	

Cette motoneige est calibrée en fonction d au NIVEAU DE LA MER.

Si on utilise cette motoneige au delà de 600 mètres il est nécessaire de la recalibrer et d'installer certaines pièces. Se référer au tableau suivant pour connaître le régime de puissance

maximale TR/MN. Pour plus de détails, se référer au Guide du conducteur ou consulter un concessionnaire autorisé de motoneiges Ski-Doo.

Sans cette recalibration, certaines pièces peuvent être endommagées.



CALIBRATION

Adjust all three drive pulley bolts to same position. Increase number = Increase RPM. Decrease Number = Decrease RPM. Régler tous les boulons de la poulie motrice

à la même position. Augmenter le numéro = Augmenter le régime TR/MN Diminuer le numéro = Diminuer le régime TR/MN

mmo2006-003-012\_a

SUMMIT LIQUID COOLED MODELS — EUROPE

#### Instruction 19

#### **A WARNING**

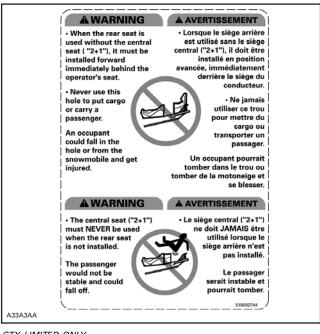
Before riding make sure that every seat is installed properly and securely locked in.

#### **A AVERTISSEMENT**

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

A33A39A

GTX MODELS



GTX LIMITED ONLY

#### Instruction 21



**EUROPEAN MODELS** 

#### **CAUTION**

- This snowmobile is calibrated for use at an altitude of 1800m (6000ft) or higher.
- For usage below this altitude, make sure to have your dealer perform the necessary calibration changes to avoid engine damage.

#### **ATTENTION**

- Cette motoneige est calibrée pour utilisation à une altitude de 1800m (6000pi) ou plus.
  - Pour utilisation à une altitude moins élevée, assurez-vous de faire effectuer les ajustements nécessaires par votre concessionnaire pour éviter un bris de moteur.

mmo2007-002-003

SUMMIT FAN COOLED MODELS — NORTH AMERICA

#### Instruction 23

#### **VEHICLE ENGINE DESCRIPTION:**

XXXXX

# EPA CERTIFIED

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

\*NOT TO BE REMOVED PRIOR TO SALE



704901107

vmo2006-005-009\_en

HANGTAG — NORTH AMERICA MODELS

EMISSION CONTROL INFORMATION
THIS VEHICLE IS CERTIFIED TO OPERATE ON
UNLEADED GASOLINE AND MEETS XXXX U.S. EPA
REGULATIONS FOR SNOWMOBILE SI ENGINES.



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

RENSEIGNEMENTS SUR LE DISPOSITIF ANTIPOLLUTION
CE VÉHICULE EST CERTIFIÉ POUR FONCTIONNER À
L'ESSENCE SANS PLOMB ET IL RÉPOND AUX NORMES XXXX
DE L'EPA DES É.-U. POUR LES MOTONEIGES À MOTEUR SI.
SEE OPERATOR'S GUIDE FOR MAINTENANCE SPECIFICATIONS

SEE OPERATOR'S GUIDE POR MAINTEMANCE SPECIFICATIONS
VOIR GUIDE DU CONDUCTEUR POUR LES SPÉCIFICATIONS D'ENTRETIENS
BOMBBARDIER RECREATIONAL PRODUCTS INC.

NOT SHOWN — NORTH AMERICA MODELS

mmo2007-009-070

# **ENVIRONMENT INFORMATION**

#### **GENERAL**

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 snow-mobiling fun, but to preserve the beautiful freedom that you can experience only on a snowmobile! These guidelines will keep snow-mobilers healthy, happy and able to introduce others to what they know and enjoy about their favorite winter pastime. So, the next time you hit the trails on a cool, crisp and clear winter day, we ask you to remember that you are paving the way for the future of our sport. Help us lead it down the right path! From all of us at BRP, thank you for doing your share.

There is nothing more exhilarating than snowmobiling. Venturing onto snowmobile trails that criss-cross the wild areas of the U.S. and Canada 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!

#### JUST WHAT IS LIGHT TREADING?

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".

#### WHY IS LIGHT TREADING SMART

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!

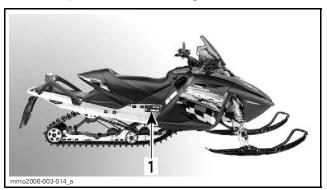
Finally, Light Treading is the sign of a smart snowmobiler. You don't have to leave big tracks or careen through a virgin forest to show you can ride. So whether you're driving a high performance Ski-Doo, a sporty MX Z snowmobile or any other make or model, show you know what you're doing. Show you know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

# VEHICLE INFORMATION

# **HOW TO IDENTIFY YOUR SNOWMOBILE**

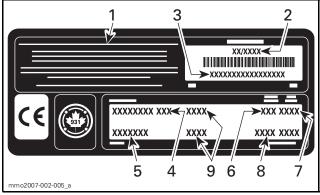
# Vehicle Description Decal

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



TYPICAL

Vehicle description decal



#### VEHICLE DESCRIPTION DECAL

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

#### Serial Numbers

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

#### Vehicle Identification Number (VIN) Location

VIN is scribed on vehicle description decal. See above. It is also engraved on tunnel near vehicle description decal.

#### Model Number Location

Model number is part of vehicle identification number (VIN).



Model year: y = 2000

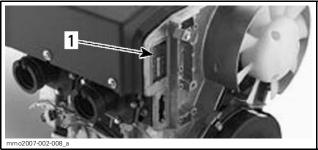
1 = 20012 = 2002

etc.

AH8A00A

VIN DESCRIPTION

#### **Engine Serial Number Location**



FAN COOLED — 550F ENGINE

1. Engine serial number

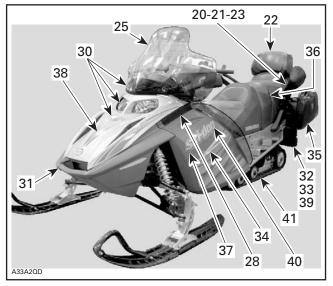


LIQUID COOLED — 500SS/600 HO SDI ENGINES

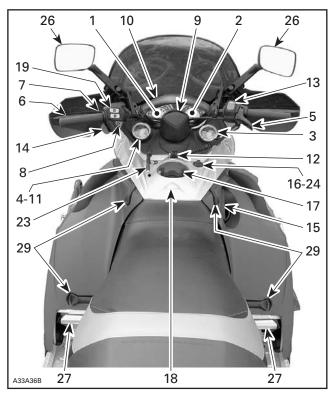
1. Engine serial number

# CONTROLS/INSTRUMENTS/EQUIPMENT

**NOTE:** Some controls/instruments/equipment do not apply or are optional on some models. In these cases their reference numbers are deliberately missing in the illustrations.



**TYPICAL** 



TYPICAL

- 1. Speedometer
- 2. Tachometer
- 3. Electric Fuel Level Gauge
- 4. Temperature Gauge
- 5. Throttle Lever
- 6. Brake Lever
- 7. Parking Brake Lever
- 8. START/RER Button
- 9. Handlebar
- 10. Holding Strap
- 11. Ignition Switch
- 12. Tether Cut-Out Switch
- 13. Engine Cut-Out Switch
- 14. Headlamp Dimmer Switch
- 15. Rewind Starter Handle
- 16. Choke Lever
- 17. Fuel Tank Cap
- 18. Mechanical Fuel Level Gauge
- 19. Heating Grip/Throttle Lever Switch
- 20. Rear Passenger Heating Grip Switch
- 21. Rear Grab Handles

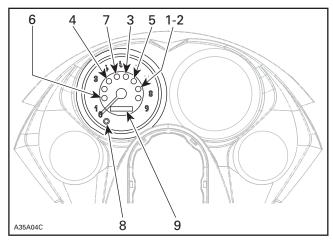
- 22. Adjustable Backrest
- 23. Electric Visor Jack Connector
- 24. 12-Volt Power Outlet
- 25. Windshield
- 26. Adjustable Mirrors
- 27. Adjustable Toeholds
- 28. Heated Carburetor Valve29. Hood and Side Panel
  - Latches
- 30. Fuses
- 31. Front Grab Handle/Front Bumper
- 32. Storage Compartment
- 33. Rear Rack
- 34. Tool Kit
- 35. Suitcase
- 36. 2+1 Seat
- 37. Spark Plug Holder
- 38. Spare Drive Belt Holder
- 39. Hitch
- 40. Shields and Guards
- 41. Track

#### 1) Speedometer/Tachometer

#### **Liquid Cooled Summit Models**

A combined speedometer/tachometer gauge that will show vehicle speed in km/h or MPH via its multifunction display and the engine number of thousand of revolutions per minute (RPM) via its pointer.

As soon as the vehicle is moving, the multifunction display will show speed only instead of the selected mode.



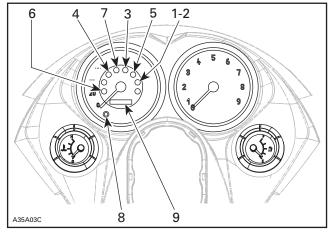
#### TYPICAL — MODELS WITH TACHOMETER ONLY

- 1. Reverse pilot lamp
- 2. DESS/RER pilot lamp
- 3. High beam pilot lamp (blue)
- 4. Oil pilot lamp
- 5. Low battery voltage pilot lamp
- 6. Engine management system (EMS) pilot lamp
- Engine overheat warning lamp (red)
- Mode button
- 9. Multifunction display

#### All Models except Liquid Cooled Summit

Electronic multifunction speedometer that may show speed in km/h or MPH.

At vehicle speed of 90 km/h (55 MPH) and more, the multifunction display will show speed only instead of the selected mode.



#### TYPICAL — MODELS WITH SPEEDOMETER

- Reverse pilot lamp
- 2. DESS/RER pilot lamp
- 3. High beam pilot lamp (blue)
- 4. Oil pilot lamp
- 5. Low battery voltage pilot lamp
- 6. Engine management system (EMS) pilot lamp
- 7. Engine overheat warning lamp (red)
- 8. Mode button
- 9. Multifunction display

### **Pilot Lamps**

#### Reverse (DESS/RER)

This pilot lamp will light up when reverse is selected.

# High Beam

This pilot lamp will light up when headlamp is on HIGH beam.

# Injection Oil

This pilot lamp will glow up when injection oil level is low. Stop vehicle in a safe place then, replenish injection oil reservoir.

# **Liquid Cooled Models**

# Low Battery Voltage

This lamp will light up to indicate a low battery voltage condition (on so equipped models). See an authorized SKI-DOO dealer as soon as possible.

#### DESS Status (DESS/RER)

This lamp will light up to confirm DESS status. Refer to DESS PILOT LAMP CODES in TETHER CUT-OUT SWITCH for description.

#### Engine Management System (EMS)

This lamp will light up to indicate that an engine fault code is present. Contact an authorized SKI-DOO dealer as soon as possible.

#### Engine Overheat Warning Lamp

If this lamp blinks (1 short and 1 long beep will also be heard), the engine is overheating, reduce snowmobile speed and run snowmobile in loose snow or stop engine immediately and allow engine to cool. Check cooling system.

#### Mode Button

#### All Models

Depress mode button to change multifunction display. Each time engine is started, display shows odometer. From that point depressing mode button will change display for the trip meter.

Depressing mode button again will change display for the resetable hourmeter. Push mode button again to return to odometer.

Push and hold mode button for 2 seconds to reset the tripmeter or the resetable hourmeter depending on the one displayed.

# Multifunction Display

#### All Models

#### Odometer

Odometer records the total distance travelled and displays it either in miles or kilometers. Refer to *UNIT SELECTION (MPH VS KM/H)* for changing units.

# Trip Meter (resetable)

Records distance travelled since it has been reset. Distance travelled is displayed either in miles or kilometers. Refer to *UNIT SE-LECTION (MPH VS KM/H)* for changing units.

#### Hourmeter (resetable)

Records engine running time in hours and minutes since it has been reset.

Push and hold mode button for 2 seconds to reset the hourmeter.

#### Multifunction Display Code

If your speedometer shows SCALE in the multifunction display, it means that the display selector button is stuck in the down position or depressed when the electrical system was activated.

#### Unit Selection (MPH vs km/h)

#### All Models

The speedometer is factory preset in miles but it is possible to change it to kilometer reading, refer to the following procedure or contact an authorized SKI-DOO dealer.

**NOTE:** Speedometer, odometer and trip meter will have their units (kilometer or miles) changed all together.

Stop engine and open LH side panel.

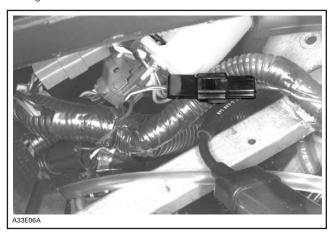
Connectors are located underneath console near steering column.

Underneath console, look for:

- 1 circuit male connector housing with BLACK/GREY wire
- 1 circuit female connector housing with BLACK/BLUE wire.

Cut locking ties. Plug connectors together to change units from miles to kilometers.

Unplug to return to miles reading. Fasten connector to harness with locking ties.



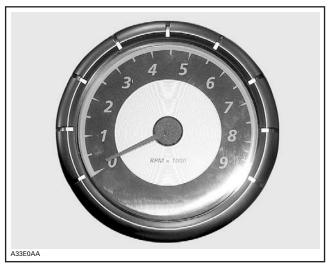
TYPICAL — LIQUID COOLED MODELS

# 2) Tachometer

### All Models except Summit Fan Cooled Models

Direct-reading dial indicates the number of thousand of revolutions per minute (RPM) of the engine.

**NOTE:** Summit liquid cooled models are equipped with a combined speedometer/tachometer gauge, refer to *SPEEDOMETER/TACHOMETER* above for more details.

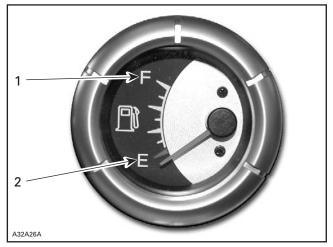


TYPICAL — MULTIPLY THE READING BY 1000

# 3) Electric Fuel Level Gauge

# GTX Limited Models

Dash-mounted gauge to facilitate fuel level reading. This gauge functions when engine is running.



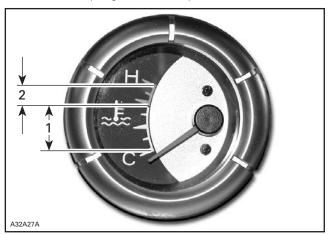
# TYPICAL

- 1. Full
- 2. Empty

# 4) Temperature Gauge

#### GTX Limited Models

The gauge indicates engine coolant temperature. The needle moves to the normal range as engine warms. Under all riding conditions, the needle should stay within this range. If needle moves into the overheat range, reduce snowmobile speed and run snowmobile in loose snow or stop engine immediately.



#### TYPICAL

- 1. Normal
- 2. Overheat

# 5) Throttle Lever

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

# **↑** 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.

# 6) Brake Lever

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

# 7) Parking Brake Lever

Parking brake should be used whenever snowmobile is parked.

# **⚠** WARNING

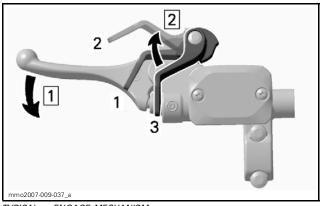
Make sure parking brake is fully disengaged before operating the snowmobile. When you ride the vehicle, brake pads that are caused to drag by a continuous pressure on the lever may cause damage to the brake system and cause loss of braking capacity and/or fire.

#### To Engage Mechanism

Squeeze brake lever and maintain while pulling locking lever with a finger. When brake lever is held at halfway the parking brake should be fully applied.

NOTE: Locking lever can be adjusted in two different positions.

**CAUTION**: Parking brake position can vary depending on brake pads wear. Ensure when the parking brake is applied that the vehicle stays securely in place.



TYPICAL — ENGAGE MECHANISM

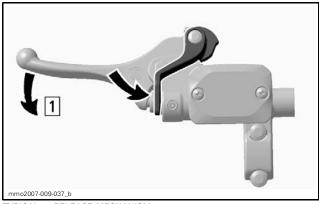
Step 1: Squeeze and maintain brake lever

Step 2: Adjust locking lever

- Position 1
   Position 2
- 3. OFF

#### To Release Mechanism

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



TYPICAL — RELEASE MECHANISM

Step 1: Squeeze brake lever

# 8) START/RER Button

#### General

The START/RER button has two functions.

Electric Starting (if so equipped)

#### GSX and GTX Models

NOTE: For fan cooled models, refer to IGNITION SWITCH.

When the engine is not running, depressing the START/RER button will engage the electric starter on vehicle so equipped and start the engine.

#### Electronic Reverse

#### All Models

When the engine is running, depressing the START/RER button will slow down engine RPM to almost a stop and advance the ignition timing to cause direction change in crankshaft rotation.

- Engine will automatically shift into forward when re-starting after stopping or stalling.
- Shifting procedure will take place only when the engine is running.
- If engine is running at a speed above 4300 RPM, the reverse function of the START/RER button is cancelled.
- It is recommended to warm up the engine to its normal operating temperature before shifting.

#### Start Mode

#### GSX and GTX Models

NOTE: For fan cooled models, refer to IGNITION SWITCH.

To start engine, push START/RER button and hold until engine has started.

**CAUTION**: Do not hold START/RER button more than 10 seconds. A rest period should be observed between the cranking cycles to let starter cool down. Holding START/RER button when engine has started could damage starter mechanism.

Release START/RER button immediately when engine has started.

If engine does not start on first try, wait a few seconds then repeat procedure. To stop engine, turn off engine cut-out switch or pull off tether cord cap.

NOTE: If necessary engine may be manually started with rewind starter

#### Shifting in Reverse

#### All Models

# **⚠** WARNING

Shifting to reverse mode on these snowmobiles is done by depressing the START/RER button when the engine is running. Wait until the reverse alarm sounds and the DESS/RER pilot lamp comes on in the dash before operating throttle to proceed in reverse. The reverse speed of these snowmobiles is not limited. Always proceed with caution as fast reverse could result in loss of vehicle stability. Come to complete stop before depressing START/RER button. Always remain seated and apply the brake before shifting. Ensure the path behind is clear of obstacles or bystanders before proceeding.

With the snowmobile completely stopped and engine running at idle, press and release the START/RER button.

The DESS<sup>TM</sup>/RER<sup>TM</sup> pilot lamp will blink and a warning buzzer will sound once every second with a half a second duration when the snowmobile is engaged in reverse.

Apply throttle slowly and evenly. Allow drive pulley to engage then accelerate carefully.

### Shifting in Forward

#### All Models

With the snowmobile completely stopped and engine running at idle, press and release the START/RER button.

DESS/RER pilot lamp and warning buzzer will stop.

Apply throttle slowly and evenly. Allow drive pulley to engage then accelerate carefully.

#### **RER Modification at High Altitude**

#### Fan Cooled Models

#### General

At high altitude, the RER system needs a different engine timing curve to work properly.

### Operation

Before using the reverse system, first select the altitude mode that changes engine timing curve.

To do so, push and hold START/RER button with engine running. After 2 seconds, one beep is heard meaning that the low altitude mode can be selected. Releasing START/RER button just after hearing that one beep will select the low altitude mode. The reverse system is now ready to operate in low altitude regions. Shifting in reverse is achieved as described above in SHIFTING IN REVERSE.

To select high altitude mode, push and hold START/RER button until 2 beeps are heard. Release button within one second. The reverse system is now ready to operate in high altitude regions. Shifting in reverse is achieved as described above in *SHIFTING IN REVERSE*.

As long as the START/RER button is pushed and held the RER system switches from one mode to the other. One beep then 2 beeps then one beep then 2 beeps and so on are heard with one second interval. The mode to be selected corresponds to the last beep code heard.

**NOTE:** The selected altitude mode is kept in memory until a new one is chosen — whether the engine is stopped or not.

### **Liquid Cooled Models**

These vehicles are equipped with a air pressure sensor that takes care of the altitude mode required by the RER.

No START/RER button operation is needed to select a mode. Just follow SHIFTING IN REVERSE above.

# 9) 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.

# 

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

# 10) Holding Strap

#### Summit Models

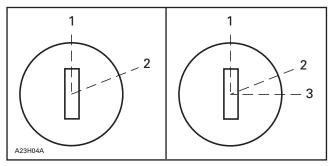
Holding strap provides a grip for driver when side-hilling.

# **⚠** WARNING

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

# 11) Ignition Switch

#### Fan Cooled Models



#### MANUAL START/ELECTRIC START MODELS

- 1. OFF
- 2. ON
- 3. START

# Manual Starting

To start the engine, first turn the key to ON position, then pull rewind starter handle. To stop the engine, turn the key to OFF position. See illustration above.

# Electric Starting

To start engine, turn key to START position and hold until engine has started. See illustration above.

**CAUTION:** Do not use electric starter for more than 10 seconds. A rest period should be observed between the cranking cycles to let electric starter cool down. Using electric starter when engine has started could damage electric starter mechanism.

Release key as soon as the engine starts. Key returns to ON position as soon as it is released.

If engine does not start on first try, turn key back to OFF position and wait a few seconds before restarting. To stop engine, turn key to OFF position.

**NOTE:** Engine may be manually started with rewind starter if necessary.

If starter does not operate, check starting system fuse condition. Refer to *FUSES* section.

# 12) Tether Cut-Out Switch

#### General

When the tether cord cap is removed, its shuts the engine off preventing snowmobile to runaway if the operator falls off the vehicle accidently.

# **⚠ WARNING**

Always remove tether cord cap and key when vehicle is not in operation in order to prevent accidental engine starting, to avoid unauthorized use by children or others or theft.

#### Operation

Attach tether cord eyelet to clothing, then snap cap (DESS key) over post before starting engine.



#### TYPICAL

- 1. Snap over post
- 2. Attach to eyelet

If emergency engine shut off is required, completely pull tether cord cap from post.

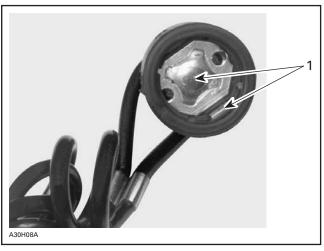
# DESS (Digitally Encoded Security System) Key/Cut-Out Switch Liquid Cooled Models

On these models, the tether cord cap (DESS key) is digitally encoded to provide you and your snowmobile with the equivalent security of a conventional lock key and its shuts off the engine preventing snowmobile to runaway if the operator falls off the vehicle accidently.

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

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

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



DESS KEY

1 Free of dirt or snow

### Additional DESS Keys

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

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

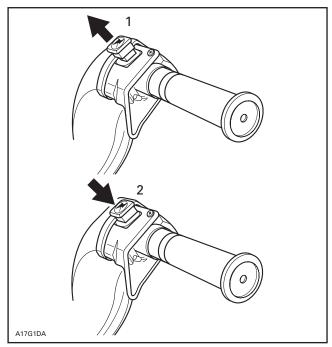
# **DESS Pilot Lamp Codes**

NOTE: If any code still occurs, contact an authorized SKI-DOO dealer.

WARNING S	IGNALS		
BEEPER	DESS PILOT LAMP	DESCRIPTION	
2 shorts	Blink	Good key	
1 short per 1.5 second/ repetitive	Blink	Unable to read key (bad connection)	Make sure the DESS key is free of dirt or snow. Reinstall cap and restart engine. Vehicle can not be driven.
3 shorts per second/ repetitive	Blink	Invalid key or key not programmed	Use the proper key for this vehicle or have the key programmed. Vehicle can not be driven.

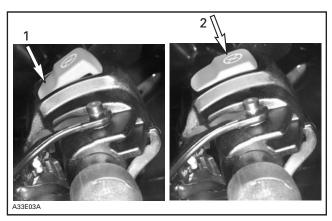
# 13) Engine Cut-Out Switch

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).



TYPICAL — SUMMIT MODELS

- 1. ON
- 2. OFF



TYPICAL — ALL MODELS EXCEPT SUMMIT

- ON
- 2 OFF

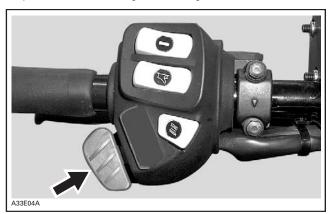
All operators of the snowmobile should familiarize themselves with the function of this device by using it several times on first outing and whenever stopping the engine thereafter. This engine cut-out procedure will become a reflex and will prepare operators for emergency situations requiring its use.

# **⚠** 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.

# 14) Headlamp Dimmer Switch

Allows selection of headlamp beam. Note that lights are automatically ON whenever the engine is running.



**TYPICAL** 

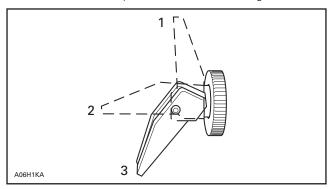
# 15) Rewind Starter Handle

Auto-rewind type located on right hand side of snowmobile. To engage mechanism, pull handle slowly until a resistance is felt then pull vigorously. Slowly release handle.

# 16) Choke Lever

See proper usage instructions in *STARTING THE ENGINE* in *OPERATING INSTRUCTIONS* section.

This device features a 3-position lever to facilitate engine cold start.



- 1. OFF
- 2. Position 2
- 3. Position 3

#### Initial Cold Starting

NOTE: Do not operate the throttle lever with the choke lever on.

Move the choke lever to position 3 and start the engine. As soon as the engine starts move the lever to position 2. After a few seconds (10 seconds maximum) move the choke lever to OFF.

NOTE: In severe cold weather, colder than - 20°C (- 4°F) you may need to flip choke lever from OFF to position 1 a couple of times once engine is started.

# Warm Engine Starting

Start the engine without any choke. If the engine will not start after two pulls of the rope or two 5 second attempts with the electric starter move choke lever to position 2. Start the engine without activating the throttle lever. As soon as the engine starts move the choke lever to OFF.

# 17) Fuel Tank Cap

Unscrew to fill up tank then fully tighten.

# **⚠** WARNING

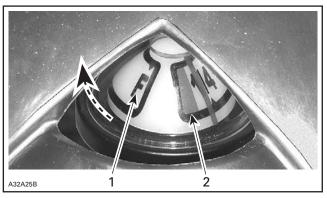
Always stop the engine before refueling. Fuel is flammable and explosive under certain conditions. Always work in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity. Open cap slowly. If a differential pressure condition is noticed (whistling sound heard when loosening 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.

# 18) Mechanical Fuel Level Gauge

### All Models except GTX Limited

Located at rear of fuel tank cap the gauge facilitates fuel level reading.

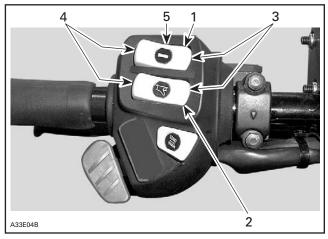


#### TYPICAL

- Full
- 2. Empty

# 19) Heating Grip/Throttle Lever Switch

It is a three-position switch. Select the desired position to keep your hands at a comfortable temperature.



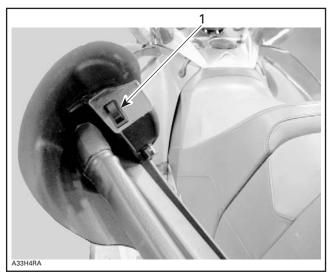
#### TYPICAL

- 1. Heating grip switch
- 2. Heating throttle lever switch
- 3. Hot
- 4. Warm
- 5. Off

# 20) Rear Passenger Heating Grip Switch

#### GTX Limited Models

Three-position switch. Select the desired position to keep rear passenger's hands at a comfortable temperature.



LEFT SIDE OF PASSENGER GRAB HANDLE

1. Rear passenger heating grab handles switch

# 21) Rear Grab Handles

#### GTX Models

Rear grab handles provides a grip for the passenger.

# 22) Adjustable Backrest

#### GTX Limited Models

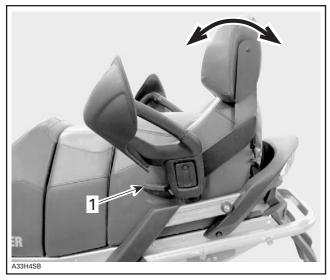
The backrest position may be adjusted to suit passenger or depending on seat set-up, be adjusted to suit driver convenience.

Pull and hold adjustment handle until desired position is obtained.

Release lever to secure backrest in place.

# **⚠** WARNING

Adjust with vehicle at rest in a safe place.



TYPICAL — BACKREST ADJUSTMENT FOR PASSENGER

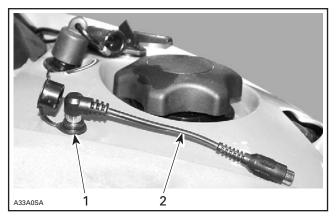
1. Adjustment handle

# 23) Electric Visor Jack Connector

#### GSX and GTX Models

An electric visor can be connected to the jack connector. Electric current is supplied whenever engine is running. A stress relief extension is supplied with the vehicle. It is included in the predelivery kit. Ask your authorized SKI-DOO dealer for the extension.

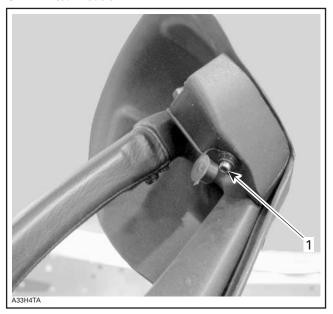
# Driver



- TYPICAL
  1. Electric visor jack connector
  2. Stress relief extension

# **Passenger**

# GTX Limited Models



GTX LIMITED

1. Electric visor jack connector

# 24) 12-Volt Power Outlet

#### GTX Limited Models

A 12-volt electric appliance may be connected to that jack connector. Electric current is supplied when ever engine is running. See *FUSES* below for electric power outlet fuse location.



# 25) Windshield

Windshield provides operator comfort, as well as protection by deflecting wind and snow away from the operator.

# 26) Adjustable Mirrors

#### GSX and GTX Models

Each mirror can be adjusted to suit driver's preference.

# ∕N WARNING

Adjust with vehicle at rest in a safe place.

# 27) Adjustable Toeholds

Each toehold can be adjusted to suit driver's preference. Loosen bolts, adjust then, retighten bolts to 10 N•m (89 lbf•in).

# WARNING

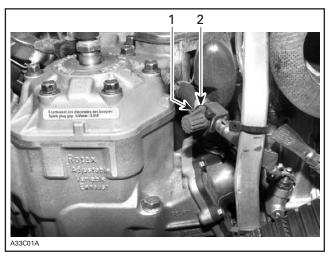
Adjust with vehicle at rest in a safe place. Do not adjust too snugly to trap booted foot. Securely tighten all adjustments.

# 28) Heated Carburetor Valve

# Liquid Cooled Models

The heated carburetor valve should be closed except:

- When riding between 5°C and 5°C (23°F and 41°F) in a high relative humidity.
- When riding in deep powder snow.
- When following another snowmobile which makes snow dust.



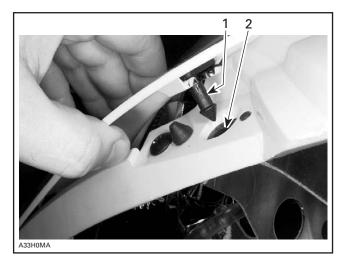
TYPICAL 1. ON 2. OFF

**CAUTION:** When operating the snowmobile above 5°C (41°F), move the carburetor heating valve to the OFF position.

# 29) Hood and Side Panel Latches

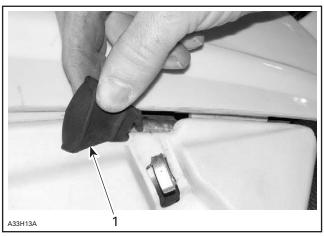
To open hood, slightly widen (pull-out) its both sides top portion in order to unhook its anchors from their grommets.

97



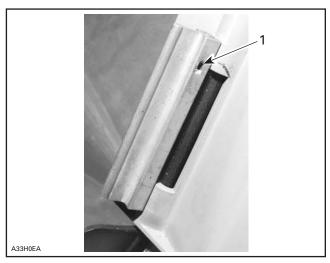
- Anchors Grommets 2.

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



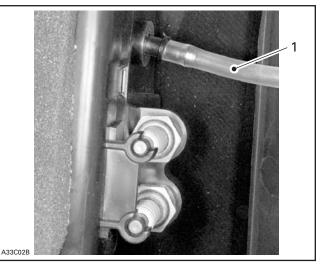
1. Latch

To remove a side panel remove by pulling up both locking devices from hinge.

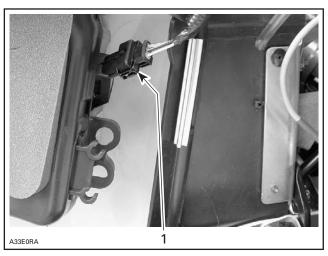


# 1. Locking device

For left hand side panel removal, also unplug vent hose or sensor from air silencer.



ALL EXCEPT SDI MODELS
1. Vent hose



# SDI MODELS 1. Sensor

100 .

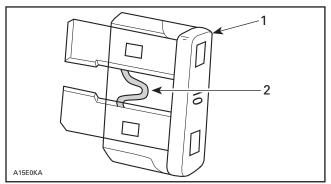
Reverse opening procedure to close hood and side panels. Properly hook up latches.

# 30) Fuses

### Fuse Removal/Inspection

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

**CAUTION:** Do not use a higher rated fuse as this can cause severe damage to electric components and/or fire.

# **⚠** WARNING

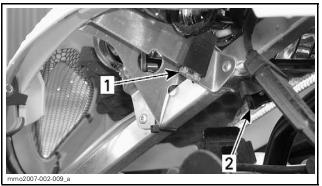
If fuse has burnt out, source of malfunction should be determined and corrected before restarting. See an authorized SKI-DOO dealer for servicing.

# Description/Location

#### Fan Cooled Models

MODEL	FUSE	DESCRIPTION	LOCATION
Manual start	20 A	Ground protection	Underneath console
Electric start	30 A	Charging system	Top of battery
	20 A	Ground protection	Underneath console

#### **Ground Protection**

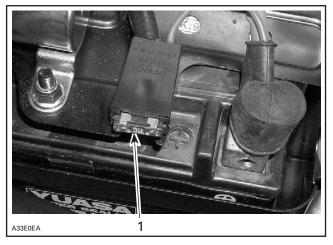


LH SIDE OF ENGINE COMPARTMENT — MANUAL AND ELECTRIC START MODELS

- 1. Ground protection fuse
- 2. Headlamp beam aiming knob

# Charging System

**CAUTION:** This fuse should always be disconnected before doing any maintenance under the hood. This is to prevent any unexpected electrical activation.



TOP OF BATTERY — ELECTRIC START MODELS
1. Charging system fuse

# Liquid Cooled Models

Engine: 500SS

MODEL	FUSE	DESCRIPTION	LOCATION	
Electric start	5 A	ECM		
	20 A Headlamp		Underneath console	
	20 A Accessories			
	30 A	Charging system	Top of battery	

Engine: 600 HO SDI

MODEL	FUSE	DESCRIPTION	LOCATION	
GTX Limited	0.25 A	Fuel level gauge	Underneath seat	
Electric start/ manual start	5 A	Outer injectors		
	5 A	Inner injectors		
	5 A	ECM		
	5 A	Accessories	Fuse box	
	5 A	Relay/Start button	(engine	
	10 A	Fuel pump/Coil	compartment)	
	20 A	Headlamp		
	20 A	Accessories		
	20 A	Capacitor		
	30 A	Charging system	Top of battery	

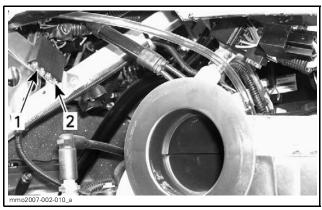
# Electric Fuel Level Gauge

# GTX Limited Models

See an authorized SKI-DOO dealer for fuse replacement.

#### Accessories/Headlamp

# GTX Sport 500SS Models



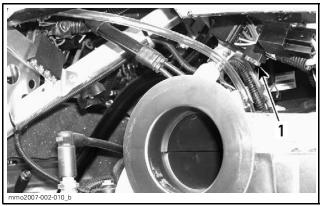
LH SIDE OF ENGINE COMPARTMENT

1. 20 A headlight fuse (RED/ORANGE wire)

2. 20 A neadiight fuse (hED/ORANGE Wife)
2. 20 A accessories fuse (RED/YELLOW wire)

#### **ECM**

# GTX Sport 500SS Models



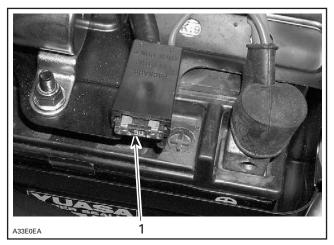
LH SIDE OF ENGINE COMPARTMENT — ELECTRIC START NON-SDI MODELS

1. ECM fuse

105

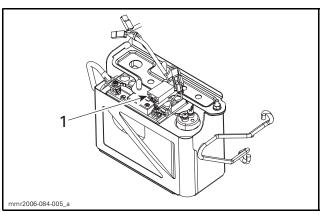
# Charging System

**CAUTION:** This fuse should always be disconnected before doing any maintenance under the hood. This is to prevent any unexpected electrical activation.



TOP OF BATTERY — NON-SDI MODELS

1. Charging system fuse



TOP OF BATTERY — SDI MANUAL START MODELS

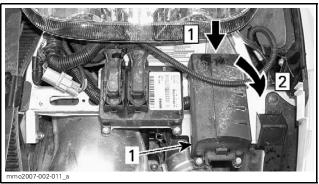
1. Charging system fuse

#### Fuse Box

#### SDI Models

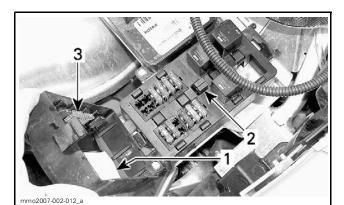
Open front hood.

To open fuse box push on cover tab and tilt cover.



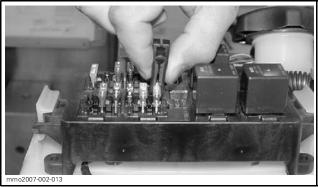
FUSE BOX — SDI MODELS

Step 1: Push on tab Step 2: Lift cover 1. Fuse box



#### FUSE BOX — SDI MODELS

- 1. Fuse description decal
- Fuse remover/installer
- 3. Spare fuses



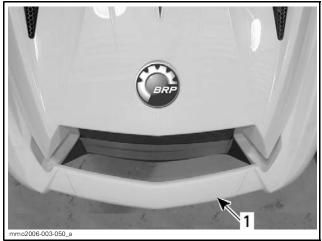
TYPICAL — REMOVE FUSE USING TOOL

### 31) Front Grab Handle/Front Bumper

To be used whenever front of 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.



1. Front grab handle

CAUTION: Do not use skis to pull or lift snowmobile.

**CAUTION**: Never use the front bumper to lift the snowmobile for maintenance purpose.

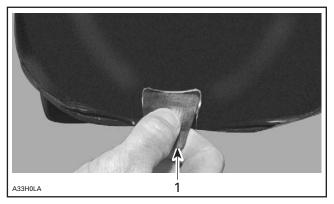
### 32) Storage Compartment

# **⚠ WARNING**

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

### 1+1 Capable Seat Equipped Models

Pull latch slightly upward then, backward to unlock cover.



1. Latch

### GTX Models



1. Storage compartment

## **⚠** WARNING

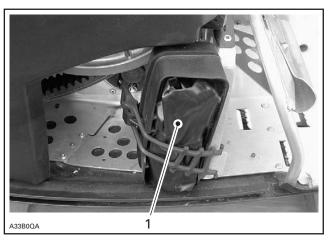
All objects in rear rack must be properly latched. Do not carry any breakable objects. Excessive weight in rack may reduce steering ability.

**CAUTION:** Always readjust suspension according to the load. The capacity of this rack is limited, refer to weight recommendation decal on vehicle cargo rack. Ride at very low speed when loaded. Avoid speed over bumps.

#### 34) Tool Kit

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

Tool bag is located in engine compartment above left hand side toe-hold



Tool kit

### 35) Suitcase

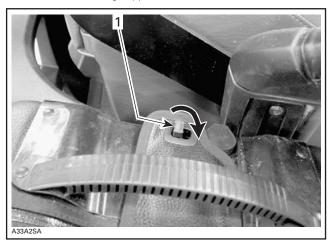
#### GTX Limited Models

CAUTION: MAXIMUM load for each suitcase is 4 kg (9 lb).

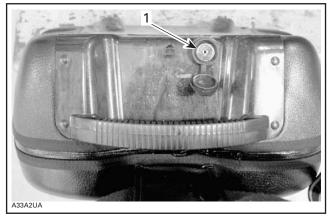
Unlock the suitcase from its support by turning the upper button  $90^{\circ}$  clockwise.

**NOTE:** If upper button cannot be turned, unlock upper button using the suitcase locking device.

Push upper button downward and gently pull on the suitcase to release it from its locking support.

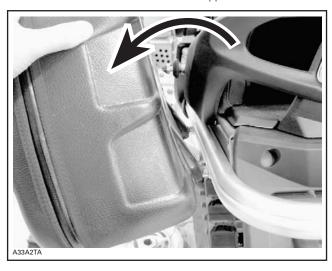


1. Upper button

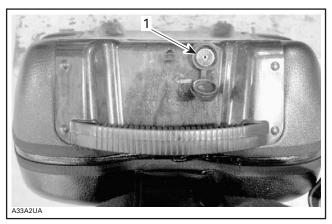


1. Locking device

Lift suitcase to release it from its lower support.



Suitcases can be locked on vehicle using the safety locking device, using this device will prevent the suitcase release button to turn.



1. Locking device

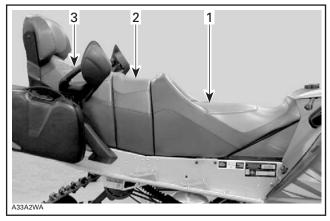
**CAUTION:** Make sure suitcases are properly fixed and secured before using snowmobile.

### 36) 2+1 Seat

GTX Limited Models

### 3 Passenger's Seat Set-Up

The GTX Limited has 3 seats.



#### 3 PASSENGER'S SEAT SET-UP

- Driver seat
- 2. 2+1 seat
- 3. Passenger's seat

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.

## **⚠ WARNING**

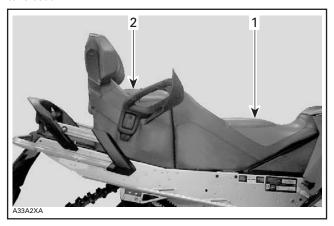
Any passenger must be able to firmly lay his feet on the footrests and keep his hands on the grab handles or seat strap at all times when seated. Respecting those physical criteria is important to ensures that the passenger is stable and to reduce the risks of ejection.

## **⚠** WARNING

- NEVER place any cargo on either of the 2 passenger seats, as cargo could collide with occupants.
- If you ride with the 2 passenger seats installed, your cargo must be placed only in the suitcases.
- If you want to ride with 1 passenger and some cargo, do not put the cargo on the passenger's seat left unused. You must instead remove the "2+1" seat and slide the passenger's seat from the rearmost position, to the position just behind the operator's seat. This will create space behind the passenger's seat to place your cargo.

#### 2 Passenger's Seat Set-Up

The GTX Limited can be converted into a snowmobile with 2 seats instead of 3, by removing the middle "2+1" seat and installing the passenger's seat with the backrest immediately behind the operator's seat.



#### 2 PASSENGER'S SEAT SET-UP

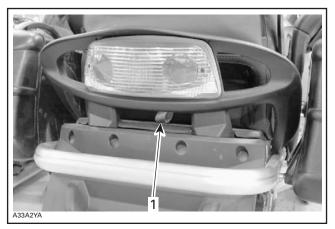
- Driver seat
- Passenger's seat

## **⚠** WARNING

- NEVER ride with the "2+1" seat installed if the rearmost passenger's seat is not installed.
- The "2+1" seat must rest against the passenger's seat behind it to be fully locked and stable. Without the passenger's seat behind it, the "2+1" seat is unstable and could cause injuries to passengers.
- Never ride without the 2+1 seat removed, unless the rearmost seat is installed forward immediately behind the operator's seat.

#### 2+1 Seat Removal

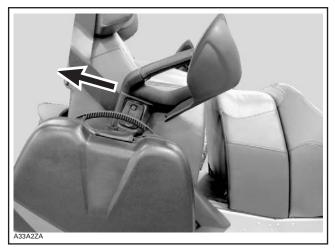
Pull on passenger's seat strap while gently lifting rear of seat.



1. Strap

Slightly pull passenger's seat rearward to release alignment tab from 2+1 seat.

**CAUTION:** If passenger's seat needs to be removed from vehicle, make sure to unplug passenger's seat harness.



PULL PASSENGER'S SEAT REARWARD

Slightly pull 2+1 seat rearward to release alignment tab from driver seat.

Remove 2+1 seat.

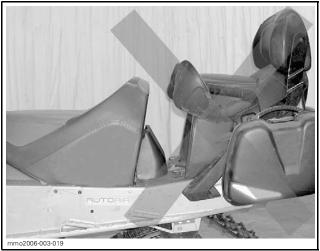


PULL 2+1 SEAT REARWARD

NOTE: When the "2+1" seat is removed, you must always proceed to the reinstallation of the passenger's seat (the one with a backrest) immediately behind the operator's seat before riding. Failure to do so leaves the snowmobile with a hole between the operator's seat and the passenger's seat. This is incorrect and the snowmobile must not be ridden in this configuration.

## **⚠ WARNING**

- NEVER use the hole left by removing the "2+1" seat to sit a passenger or put cargo. The passenger could hurt his back or suffer other serious injuries due to his seating position. Cargo placed in this hole would be unstable, could fall and potentially injure someone.
- A passenger sitting on the passenger's seat that is installed in the "third" position must not use the hole left by the "2+1" seat to put his feet as it could impair his stability.
   Feet must remain on the footrests and hands must firmly grasp the grab handles at all times.



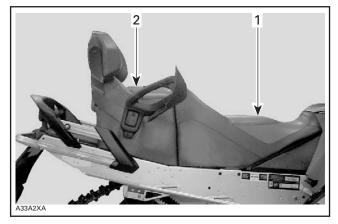
IMPROPER 2 PASSENGER'S SEAT SET-UP

**CAUTION:** Take care to store the 2+1 seat properly to avoid any damages.

Reinstall passenger's seat on vehicle immediately behind the operator's seat.

When passenger's seat rests in its position, firmly push seat down to latch.

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



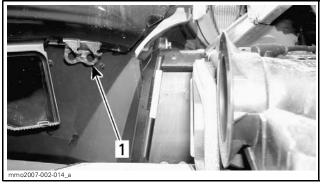
- 1. Driver seat
- 2. Passenger's seat

## 

Make sure the passenger's seat(s) that are installed are locked securely in place before using the snowmobile.

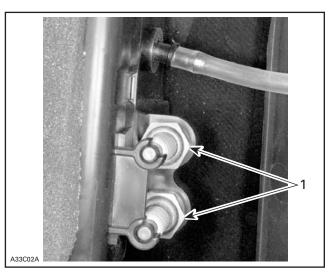
### 37) Spark Plug Holder

To keep spare spark plugs dry and prevent shocks that might affect the adjustment or break them, a holder is provided in engine compartment.



FAN COOLED MODELS — SPARK PLUG HOLDER ON LEFT HAND SIDE PANEL

1. Spare spark holder



LIQUID COOLED MODELS — SPARK PLUG HOLDER ON LEFT HAND SIDE PANEL

Spare spark plugs installed in holder

122 \_\_\_\_\_

NOTE: Spare spark plugs are not supplied with snowmobile.

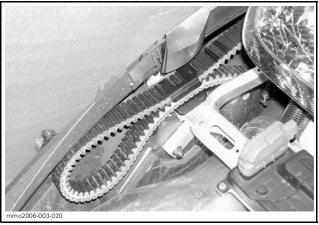
**NOTE:** Check spare spark plug gap according to *SPECIFICATIONS* before installation.

**CAUTION:** Do not attempt to adjust gap on spark plug BR8ECS, BR9ECS and BR10ECS.

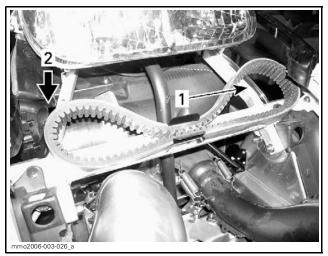
### 38) Spare Drive Belt Holder

A spare drive belt can be stored in holder.

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



LIQUID COOLED — SPARE DRIVE BELT INSTALLED IN HOLDER



FAN COOLED — SPARE DRIVE BELT INSTALLED IN HOLDER

- 1. Push drive belt on LH side
- 2. Make sure there is no contact with air duct

### 39) Hitch

The hitch can be used to pull most equipment. Use a rigid tow bar.

### 40) Shields and Guards

## **⚠ WARNING**

Never operate engine without belt guard securely installed or, with hood or access/side panels open or removed.

Your snowmobile is provided with a number of shields and guards. Leave these in place on your vehicle as they are designed to keep clothing and hands out of moving parts and away from hot components. Never attempt to make adjustments to any moving part while the engine is running.

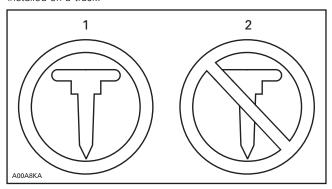
## **⚠ WARNING**

Never stud a track that has not been approved for studs. Installing studs on an unapproved track could increase the risk of the track tearing or severing, possibly resulting in serious injury or death.

Depending on the model of snowmobile that you own, your vehicle may come with a track for which the manufacturer permits the installation of studs, or a track for which the manufacturer forbids it.

Tracks approved for the installation of studs have a stud symbol (see illustration) molded into the track surface, and tracks not approved bear a forbidden stud symbol (see illustration).

Before proceeding with the installation of studs on tracks for which it is allowed, you must first acquaint yourself with the safety instructions related to the studding of tracks, found in the section entitled TRACTION ENHANCING PRODUCTS in the SAFETY INFORMATION section at the beginning of this guide. This section also provides other important information that you must consider before having studs installed on a track



#### TRACK SYMBOLS

- Approved
- NOT Approved

# Models Equipped with Track Profile Height of 44.5 mm (1.75 in) and Higher

Generally, snowmobiles adapted for mountain riding comes with tracks equipped with high lug profiles. These tracks are optimized for operation on loose snow.

BRP does **not recommend** to ride snowmobiles equipped with high lug profiles track at **high speed** in a trail, on hard packed surfaces or ice for an extended period of time.

In the event that you have to, **reduce your speed**, then minimize the distance you ride on those surfaces.

**CAUTION:** Running those tracks at high speed in a trail, on hard packed surfaces or ice put more stress on the lugs, which tend to heat up as a result. To avoid potential degradation or damage to the track, reduce your speed, then minimize the distance you ride on those surfaces.

For general instructions on maintenance of tracks, refer to the sections TRACK CONDITION and TRACK TENSION AND ALIGNMENT in the MAINTENANCE section of this guide.

### RECOMMENDED FUEL AND OIL

#### Recommended Fuel

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

MINIMUM OCTANE NUMBER					
Inside North America					
(87 (RON + MON)/2)					
(91 (RON + MON)/2)					
Outside North America					
92 RON					
95 RON					
ENGINES	95	92		91	87
550F	X	Χ		Χ	Х
500SS	Χ	Χ		Χ	Χ
600 HO SDI	X	Χ		Χ	Х

**CAUTION:** Never experiment with other fuels or fuel ratios. The use of unrecommended 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.

## $oldsymbol{\Lambda}$ 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.

#### Fuel System Antifreeze

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

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

This precaution is in order to reduce the risk of frost buildup in carburetor(s) which may lead, in certain cases, to high fuel consumption or severe damage to engine.

NOTE: Use only methyl hydrate free gas line antifreeze.

#### Recommended Oil

**CAUTION:** Use only injection oil that flows at - 40°C (- 40°F). Do not mismatch oil reservoir cap with fuel tank cap. Oil reservoir cap is identified OIL.

Oil is contained in the injection oil reservoir.

Use only two-stroke engine injection oil sold by authorized SKI-DOO dealers.

2-STROKE INJECTION OIL				
XP-S synthetic oil (2) (3)				
XP-S synthetic blend (2) (3)				
XP-S mineral injection oil (4)				
ENGINES	▼	▼	•	
550F	Χ	X	Χ	
500SS	Χ	X	Χ	
600 HO SDI	_	X (1)	Χ	

<sup>(1)</sup> Prefered.

**CAUTION:** (2) XP-S synthetic oil and XP-S synthetic blend oil are specially formulated and tested for the severe requirements of these engines. Use of any other brand two-stroke oil may void the limited warranty. Use only XP-S synthetic oil or XP-S synthetic blend. There is no known equivalent on the market for the moment. If a high quality equivalent were available, it could be used.

- (3) XP-S synthetic oil and XP-S synthetic blend injection oil are compatible, they can be mixed together.
- (4) If XP-S Mineral Injection Oil is not available, API TC high-quality low ash two-stroke injection oil may be used.

XP-S mineral injection oil is a special blend of basic oil and additives especially selected to ensure unequalled lubrication, engine cleanliness and minimum spark plug fouling.

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

**CAUTION:** Never use four-stroke petroleum or synthetic motor oil and never mix these with outboard motor oil. Do not use NMMA TC-W, TC-W2 or TC-W3 outboard two-stroke engine oils or ashless two-stroke engine oils. Avoid mixing different brands of API TC oil as resulting chemical reactions may cause severe engine damage.

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

**CAUTION:** Check level and refill every time you refuel. Do not mismatch oil reservoir cap with fuel tank cap. Install cap that is identified OIL.

## **⚠ WARNING**

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

### **BREAK-IN PERIOD**

#### **Engine**

**CAUTION:** A break-in period of 10 operating hours — 500 km (300 mi) — is required before running the snowmobile at full throttle.

During break-in period, maximum throttle should not exceed 3/4. However, brief full acceleration and speed variations contribute to a good break-in.

**CAUTION:** Engine overheating, continued wide open throttle runs and prolonged cruising without speed variations should be avoided, this can cause engine damage during the break-in period.

#### All Models except SDI Engine Equipped Models

To assure additional protection during the initial engine break-in, 500 mL (18 imp. oz) of recommended injection oil should be added to fuel for the first full filling of fuel tank. Have spark plugs cleaned after engine break-in.

#### Belt

#### All Models

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

### 10-Hour Inspection

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

As with any precision piece of mechanical equipment, we suggest that after the first 10 hours of operation or 500 km (300 mi), whichever comes first, your snowmobile be checked by an authorized SKI-DOO dealer. This inspection will also give you the opportunity to discuss the unanswered questions you may have encountered during the first hours of operation.

### **OPERATING INSTRUCTIONS**

### **Pre-Operation Check**

## **⚠** WARNING

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

- Remove snow and ice from body including seat, footrests, controls and instruments.
- Lights The headlamp, the taillight and the brake light are standard equipment. Be sure lights are clear of dirt, slush or snow and are in good working order or condition.
- Verify that track and idler wheels are free to turn and not frozen.

## $oldsymbol{\Lambda}$ WARNING

Always use a wide base snowmobile mechanical stand to properly support vehicle during any track verification. Slowly accelerate engine in order to rotate track at very low speed when it is not on ground.

- Activate the brake control lever and make sure the brake fully applies before the brake control lever touches the handlebar grip. It must fully return when released.
- Check the parking device. Apply parking brake and check if it operates properly.
- Activate the throttle control lever several times to check that it operates easily and smoothly.

## **↑** WARNING

Throttle lever must operate easily and smoothly. It must return to idle position when released.

- Check operation of tether and engine cutout switches, ignition switch, headlamp switch (HI-LO), taillight, brake light and pilot lamps.
- Verify that skis and steering operate freely. Check corresponding action of skis versus handlebar.

- Check fuel and oil for levels and leaks. Replenish as necessary and see an authorized SKI-DOO dealer in case of any leaks.
- Verify that air filter(s) is free of snow, if so equipped.
- All storage compartments must be properly latched and they must not contain any heavy or breakable objects. Hood must be also properly latched.

## 

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

- Make certain your snowmobile is pointed away from people or objects before you start it. No one is to be standing in front of or in back of the snowmobile.
- Be warmly dressed with clothing designed for snowmobiling.

PRE-OPERATION CHECK LIST				
ITEM	OPERATION	~		
Body including seat, footrests, lights, controls and instruments	Check that there is no snow or ice.			
Track and idler wheels	Check for free movement.			
Brake lever	Check proper action.			
Parking device	Check proper action.			
Throttle lever	Check proper action.			
Switches and lights	Check proper action. Tether cord must be attached to driver clothing eyelet.			
Skis and steering	Check for free movement and proper action.			
Fuel and oil	Check for proper level and leaks.			
Air filter	Check that there is no snow or ice.			
Adjustable features	Check for optimal adjustment and securely tightened adjustment locks.			
Storage compartment	Check for proper latching and no heavy or breakable objects.			
Bag/suitcase(s)	Make sure they are properly fixed and secured.			
Passenger's seat(s)	Make sure the passenger's seat(s) that are installed are locked securely in place.			
Vehicle vicinity	Snowmobile must be pointed away from people or objects. No one is to be standing in front of or in back of the snowmobile.			
Clothing	Be warmly dressed with clothing designed for snowmobiling.			

### **SDI Engine Starting Procedure**

#### General

#### IMPORTANT:

- if the low battery voltage pilot lamp is on, battery would not have enough power to start the engine. In this case, use the manual rewind starter
- if the battery is dead, engine cannot be started. Have the battery recharged or replaced.

#### Procedure

- Recheck throttle control lever operation.
- Ensure that the tether cord cap (DESS key) is in position and that the cord is attached to your clothing eyelet.
- Ensure that the engine cutout switch is in the ON position.

#### Manual Starting

 Grab manual starter handle, pull handle slowly until a resistance is felt, then hold handle firmly and pull vigorously to start engine.

## 

Do not apply throttle while starting.

### Electric Starting (if so equipped)

- Depressing the START/RER button will engage the electric starter and start the engine.
- Release button immediately when engine has started.

## **↑** WARNING

Do not apply throttle while starting.

**CAUTION:** Do not use electric starter for more than 10 seconds. A rest period should be observed between the cranking cycles to let electric starter cool down. Using electric starter when engine has started could damage electric starter mechanism.

NOTE: If for any reason, the engine cannot be cranked electrically, start engine manually using the rewind starter.

### **Carburetor Engine Starting Procedure**

#### Procedure

- Recheck throttle control lever operation.
- Ensure that the tether cord cap is in position and that the cord is attached to your clothing eyelet.
- Ensure that the engine cutout switch is in the ON position.
- On fan-cooled models, turn ignition key to ON position.
- Activate the choke according to the temperature as explained below.

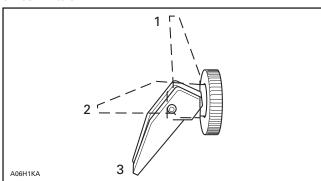
#### **Choke Application**

Initial Cold Starting When Temperature is Below - 10°C (+ 15°F)

NOTE: Do not operate the throttle lever with the choke lever on.

Set the choke lever to position 3.

NOTE: After the engine is started, let engine warm up at fast idle until engine speed drops. Then, close off choke to ensure proper air-fuel mixture.



- 1. OFF
- 2. Position 2
- 3. Position 3

Initial Cold Starting When Temperature is Above

10°C (above + 15°F)

Set the choke lever to position 2.

**NOTE:** After the engine is started, close off choke to ensure proper air-fuel mixture.

#### Warm Engine Starting

Start the engine without any choke. If the engine will not start after two pulls of the rope or two 5 second attempts with the electric starter move choke lever to position 2. Start the engine without activating the throttle lever. As soon as the engine starts move the choke lever to OFF.

#### Procedure (Cont'd)

#### Manual Starting

 Grab manual starter handle, pull handle slowly until a resistance is felt, then hold handle firmly and pull vigorously to start engine.

#### Electric Starting (if so equipped)

## **⚠** WARNING

Never depress throttle while starting engine.

**CAUTION:** Do not use electric starter for more than 10 seconds. A rest period should be observed between the cranking cycles to let electric starter cool down. Using electric starter when engine has started could damage electric starter mechanism.

#### Fan Cooled Models

- Turn key clockwise until starter engages.
- Release key immediately when engine has started.

NOTE: If for any reason, the engine cannot be cranked electrically, leave ignition key to ON position and start engine manually using the rewind starter.

### Liquid Cooled Models

- Depressing the START/RER button will engage the electric starter and start the engine.
- Release button immediately when engine has started.

NOTE: If for any reason, the engine cannot be cranked electrically, start engine manually using the rewind starter.

### Vehicle Warm-Up

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

Engage parking brake.

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

Attach tether cord to operator's clothing eyelet.

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

Release parking brake.

## **⚠ WARNING**

Make sure wide-base snowmobile mechanical stand is stable. Stay clear of the front of vehicle and the track. Do not use too much throttle during warm-up or when track is free-hanging.

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

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

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

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

### Shutting Off the Engine

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

Shut off the engine using either ignition switch, engine cut-out switch or tether cut-out switch.

## ♠ WARNING

Always remove tether cord cap and key when vehicle is not in operation in order to prevent accidental engine starting or to avoid unauthorized use by children or others or theft.

### **Post-Operation Care**

Shut off the engine. Install rear of vehicle on a wide-base snowmobile mechanical stand.

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

Always cover your snowmobile when leaving it overnight or durin extended periods of inactivity. This will protect it from freezing a
well as retain its appearance.
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### SPECIAL OPERATING INSTRUCTIONS

### Riding at High Altitudes or Sea Level

**CAUTION:** Failure to re-calibrate may cause serious engine damage.

Refer to an authorized SKI-DOO dealer for proper calibration modifications.

MODEL		FACTORY CALIBRATED FOR	PARTS REPLACEMENT/ ADJUSTMENTS REQUIRED WHEN ALTITUDE IS
	CAN/US	Sea level	Above 600 m (2000 ft)
FAN COOLED	EUROPE	1800 m (6000 ft)	Below 1500 m (4900 ft) OR above 2100 m (6900 ft)
LIQUID	ALL except SUMMIT	Sea level	Above 600 m (2000 ft)
COOLED	SUMMIT	Within 600 – 2400 m (2000 – 8000 ft)	Below 600 m (2000 ft) OR above 2400 m (8000 ft)

### Riding in Cold Weather

#### Carburetor Equipped Models

All vehicles have been calibrated for  $-20^{\circ}$ C ( $-4^{\circ}$ F). They can be operated at warmer winter temperatures without problems.

**CAUTION:** For colder temperatures than - 20°C (- 4°F), carburetor(s) must be recalibrated to avoid engine damage. Refer to an authorized SKI-DOO dealer.

Refer also to RIDING AT HIGH ALTITUDES OR SEA LEVEL in previous pages.

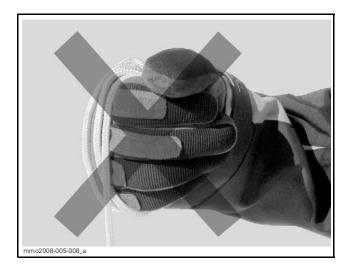
### **Emergency Starting**

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

Remove belt guard.

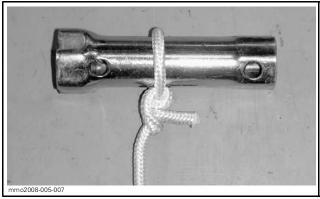
## **⚠** WARNING

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



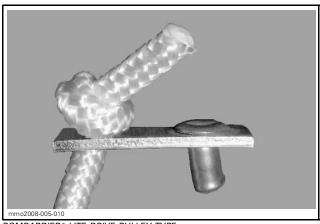
Attach one end of emergency rope to rewind handle.

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



TYPICAL

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

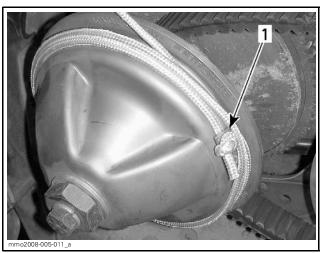


BOMBARDIER\* LITE DRIVE PULLEY TYPE



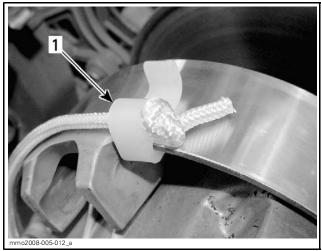
TRA DRIVE PULLEY TYPE

Hook up clip on drive pulley.



BOMBARDIER\* LITE DRIVE PULLEY TYPE

1. Clip installed using pre-drilled hole



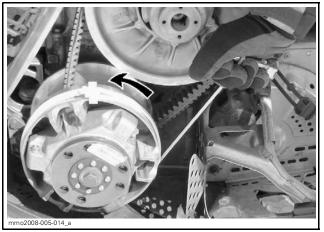
TRA DRIVE PULLEY TYPE

1. Clip installation location

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



TYPICAL — BOMBARDIER\* LITE DRIVE PULLEY TYPE



TYPICAL — TRA DRIVE PULLEY TYPE

Pull the rope using a sharp, crisp pull so the rope comes free of the drive pulley.

Start engine as per usual manual starting.

# **⚠** WARNING

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

## **Towing an Accessory**

Always use a rigid towbar to tow an accessory. Any towed accessory should have reflectors on both sides and at the rear. Check local laws for brake lights requirements.

# **⚠** WARNING

Never tow an accessory with a rope. Always use a rigid towbar. 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 towbar, remove the drive belt and tow at moderate speed.

**CAUTION:** 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 towbar 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.

**CAUTION:** 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.

## Transporting the Vehicle

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 requirement. Ensure the hitch and safety chains are secure and the brake, turn indicators and clearance lights all function.

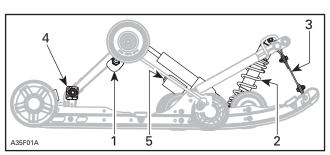
## SUSPENSION ADJUSTMENTS

Snowmobile handling and comfort depend upon suspension adjustments.

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

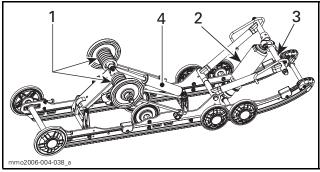
**NOTE:** Some adjustments may not apply to your snowmobile. Use special keys in tool kit.

REAR SUSPENSION			
MODELS	TYPE		
MIODELS	SC-4 SC-136 SC-14		
MX Z	Х		
GSX	Х		
GTX		Х	
Summit 550F		Х	
Summit 600 HO SDI			X



#### TYPICAL — SC-4 — MX Z X PACKAGE

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



TYPICAL — SC-136/SC-144 SUSPENSION

- 1. Rear springs adjustable cams for comfort and ride height
- Center spring for steering behavior
- 3. Stopper strap for snowmobile weight transfer
- 4. Rear shock motion ratio damping strength (not adjustable)



FRONT SUSPENSION
1. Front springs for handling

Following are guidelines to fine-tune suspension.

The best way to set up the suspension, is to start from factory settings, then customize each adjustment one at a time. Adjustments 2 through 6 are interrelated. It may be necessary to readjust center spring after adjusting front springs for instance. Test run the snow-mobile under the same conditions; trail, speed, snow, driver riding position, etc. Change one adjustment and retest. Proceed methodically until you are satisfied.

# **⚠ WARNING**

Always remove tether cord cap before performing any maintenance or adjustment, unless otherwise specified. Vehicle must be parked in a safe place, away from the trail. Always lift the front of vehicle off the ground with a suitable lifting device before adjusting ski suspension. Lift the rear of vehicle off the ground with a wide-base snowmobile stand with a rear deflector panel before rear suspension adjustment.

# **⚠** WARNING

Do not attempt to lift the vehicle by hand alone. Use appropriate lifting device to avoid risk of strain injuries. Always make sure the lifting device is stable and secure before proceeding to adjust the suspension components.

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

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

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

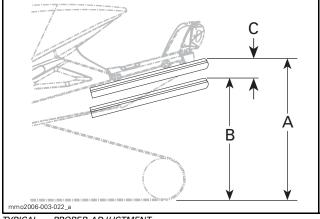
## Rear Springs — Comfort

**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.

# **⚠ 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 — PROPER ADJUSTMENT

- 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

#### Rear Springs Adjustment

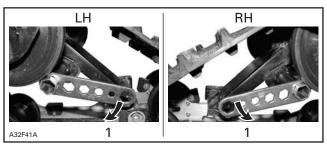
"C"	CAUSE	SOLUTION
50 to 75 mm (2 to 3 in)	No adjustment required	
More than 75 mm (3 in)	Adjusted too soft	Increase preload (see preload adjustment)
Less than 50 mm (2 in)	Adjusted too hard	Decrease preload (see preload adjustment)

## **Preload Adjustment**

NOTE: Left and right adjustment cams may be at different settings.

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

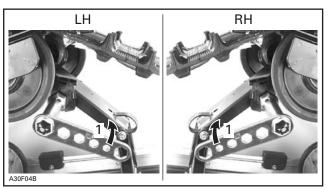
**CAUTION:** To increase preload, always turn the left side adjustment cam in a clockwise direction, and the right side cam in a counterclockwise direction.



TYPICAL

1. Increase spring preload

**CAUTION:** To decrease preload, always turn the left side adjustment cam in a counterclockwise direction, the right side cam in a clockwise direction.



#### TYPICAL

1. Decrease spring preload

## Center Spring — Steering Behavior

- Ride at moderate speed on a trail.
- If handlebar is felt too easy or too hard to turn, adjust center spring accordingly.

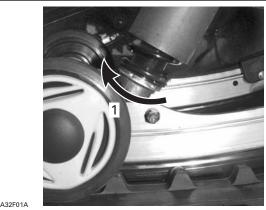
# **⚠** WARNING

Before proceeding with any suspension adjustment, remember:

- park in a safe place
- remove tether cord cap
- lift rear of vehicle off the ground with a wide-base snowmobile stand with a rear deflector panel
- make sure lifting device is stable and secure.

	CENTER SPRING ADJUSTMENT				
STEERING BEHAVIOR			ADJUSTMENT		
VEHICLE SPEED HANDLEBAR STEERING ATTITUDE		PROBLEM	SOLUTION		
	Easy to turn	Neutral	No adjustment required		
Moderate	Harder to turn	Oversteering	Adjusted too soft	Increase preload	
	Very easy to turn	Understeering	Adjusted too hard	Decrease preload	

#### **Preload Adjustment**



**TYPICAL** 

1. Use adjuster wrench provided in tool kit to increase or decrease preload

## Stopper Strap — Weight Transfer

- Ride at low speed then fully accelerate.
- Note steering behavior.
- Adjust stopper strap length accordingly.

# **↑** WARNING

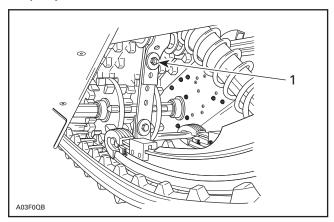
Before proceeding with any suspension adjustment, remember:

- park in a safe place
- remove tether cord cap
- lift rear of vehicle off the ground with suitable lifting device
- make sure lifting device is stable and secure.

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

STOPPER STRAP — WEIGHT TRANSFER					
WEIG	WEIGHT TRANSFER			ADJUSTMENTS	
STEERING BEHAVIOR	TRACK	SKIS	PROBLEM SOLUTIO		
Comfortable	Good weight transfer	Light pressure	No adjustment required		
Light	Too much weight transfer	Lift off the ground	Strap too long	Reduce strap length	
Heavy	Not enough weight transfer	Heavy pressure	Strap too short	Increase strap length	

#### Strap Adjustment



#### TYPICAL

Increase or decrease strap length by bolting to a different hole

## Coupling Blocks — Handling

## SC-4 Suspension Only

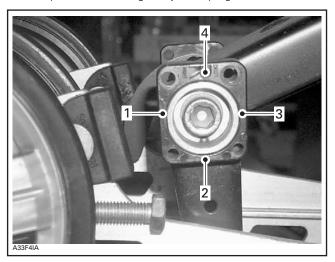
- Ride at moderate speed and check for desired handling.
- If handling requires adjustment, turn both left and right blocks by 90 to the desired position.

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

# 

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

Use tool provided in tool bag to adjust coupling blocks.



COUPLING BLOCK — RIGHT SIDE VIEW ("R" — RIGHT EMBOSSED ON BLOCK)

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

## Rear Shock Motion Ratio — Damping Strength

## MX Z 550X Europe Only

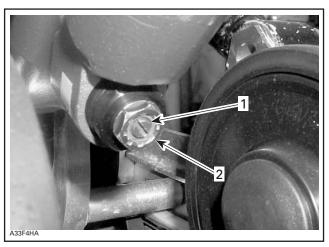
Rear shock on the above mentioned models feature 2 adjustments.

#### Low Speed Compression Adjuster

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

#### **High Speed Compression Adjuster**

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



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

## Front Springs — Handling

- Ride at moderate speed and check for proper handling.
- Adjust front springs accordingly.

# 

Before proceeding with any suspension adjustment, remember:

- park in a safe place
- remove tether cord cap.

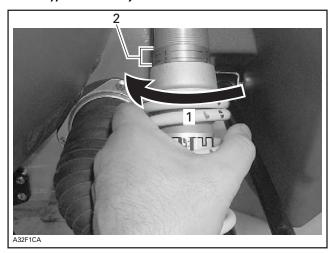
# **⚠ WARNING**

Always adjust both front springs to same position.

FRONT SPRINGS ADJUSTMENT				
HANDLING	STEERING	PROBLEM	SOLUTION	
Good	Comfortable	No adjustment required		
Bad	Too easy to turn	Adjusted too soft	Increase spring preload	
Bad	Hard to turn	Adjusted too hard	Decrease spring preload	

## **Preload Adjustment**

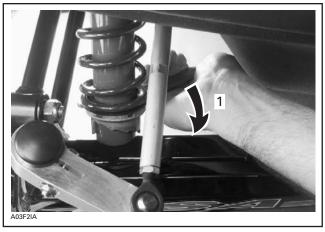
#### Screw Type Preload Adjuster



- 1. Increase or decrease spring preload
- 2. Position number

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

#### Cam Type Preload Adjuster



#### TYPICAL

1. Increase or decrease spring preload

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

## Front Suspension Shock Damping Strength

## Compression/Rebound Adjustment

#### MX Z 550X Only

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

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



1. Damping adjuster

# **Suspension Troubleshooting Chart**

SUSPENSION TROUBLESHOOTING CHART		
Problem	Corrective measures	
Front suspension wandering	- Check ski alignment and camber angle adjustment. See an authorized SKI-D00 dealer.  - Reduce ski ground pressure.  • Reduce front suspension spring preload.  • Increase center spring preload.  • Reduce rear spring preload.	
Snowmobile seems unstable and seems to pivot around its center	<ul> <li>Reduce rear suspension front arm pressure.</li> <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. Reduce front suspension spring preload. Increase center spring preload.	
Rear of snowmobile seems too stiff	- Reduce rear spring preload.	
Rear of snowmobile seems too soft	– Increase rear spring preload.	
Rear suspension front shock absorber is frequently bottoming	<ul><li>Lengthen stopper strap.</li><li>Increase center spring preload.</li></ul>	
Track spins too much at start	<ul><li>Lengthen stopper strap.</li><li>Move thicker part of coupling block downward.</li></ul>	

## **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.

## **TROUBLESHOOTING**

#### 2 SHORT BEEPS (when engine is started) THEN ENGINE STOPS.

- Engine stops automatically after four minutes of idling (without depressing the throttle handle) and engine temperature higher than 85°C (185°F).
  - Depressing throttle lever within four minutes will reset timer to four minutes.

#### ENGINE IS CRANKED BUT FAILS TO START.

- Ignition switch or engine cut-out switch in OFF position or tether cord cap away from post.
  - Place engine cut-out switch in the ON position and install tether cord cap on post.
- 2. Mixture not rich enough to start cold engine.
  - Check fuel tank level and check starting procedure, particularly use of the choke.
- 3. Flooded engine (spark plug wet when removed).
  - Do not choke. Remove wet spark plug, turn ignition switch to OFF and crank engine several times. Install clean dry spark plug.
  - Start engine following usual starting procedure. If engine continues to flood, see an authorized SKI-DOO dealer.
- 4. No fuel to the engine (spark plug dry when removed).
  - Check fuel tank level; turn fuel valve on if applicable; check fuel filter; replace if clogged; check condition of fuel and impulse lines and their connections. A failure of the fuel pump or carburetor has occurred. Contact an authorized SKI-DOO dealer.
- 5. Spark plug/ignition (no spark).
  - Remove spark plug(s) then reconnect to spark cap. Check that engine cut-out switch is at the ON position and the tether cut-out cord cap is snapped over the receptacle.
  - Start engine with spark plug(s) grounded to engine away from spark plug hole. If no spark appears, replace spark plug. If trouble persists, contact an authorized SKI-DOO dealer.
- 6. Engine compression.
  - As the engine is pulled over with the rewind starter, "cycles" of resistance should be felt as piston goes past top dead center (each piston on multi-cylinder engines).
  - If no pulsating resistance is felt, it suggests a major loss of compression. Contact an authorized SKI-DOO dealer.

#### ENGINE LACKS ACCELERATION OR POWER.

- DESS did not read tether cord cap (DESS key) code. DESS pilot lamp blinks once every 1.5 seconds. Engine can not exceed 3000 RPM.
  - Properly install.
- DESS has read a different code then the one programmed. DESS pilot lamp blinks rapidly (3 times per second). Engine can not exceed 3000 RPM.
  - Install a tether cord cap (DESS key) for which this snowmobile was programmed.
- 3. Fouled or defective spark plug.
  - Check item 5 of ENGINE TURNS OVER BUT FAILS TO START.
- 4. Lack of fuel to engine.
  - Check item 4 of ENGINE TURNS OVER BUT FAILS TO START.
- 5. Carburetor adjustments.
  - Contact an authorized SKI-DOO dealer.
- 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.
- 7. Drive and driven pulleys require servicing.
  - Contact an authorized SKI-DOO dealer.
- 8. Engine is overheating.
  - On liquid cooled engines, check coolant level, pressure cap, thermostat and for air locks in cooling system.
  - On fan cooled engines, check fan belt and its tension; clean cooling fins of engine; if overheating persists, contact an authorized SKI-DOO dealer.
- 9. Engine cannot reach full RPM and EMS pilot lamp blinks.
  - Engine is under a protection mode, contact an authorized SKI-DOO dealer.

#### ENGINE BACKFIRES.

- DESS did not read tether cord cap (DESS key) code. DESS/RER pilot lamp blinks once every 1.5 seconds. Engine can not exceed 3000 RPM.
  - Properly install.
- DESS has read a different code then the one programmed. DESS pilot lamp blinks rapidly (3 times per second). Engine can not exceed 3000 RPM.
  - Install a tether cord cap (DESS key) for which this snowmobile was programmed.

- 3. Faulty spark plug (carbon accumulation).
  - See item 5 of ENGINE TURNS OVER BUT FAILS TO START.
- 4. Engine is running too hot.
  - See item 6 of ENGINE LACKS ACCELERATION OR POWER.
- Ignition timing is incorrect or there is an ignition system failure.
  - Contact an authorized SKI-DOO dealer.

#### ENGINE MISFIRES.

- DESS did not read tether cord cap (DESS key) code. DESS/RER pilot lamp blinks once every 1.5 seconds. Engine can not exceed 3000 RPM.
  - Properly install.
- DESS has read a different code then the one programmed. DESS pilot lamp blinks rapidly (3 times per second). Engine can not exceed 3000 RPM.
  - Install a tether cord cap (DESS key) for which this snowmobile was programmed.
- 3. Fouled/defective/worn spark plugs.
  - Clean/verify spark plug gap and identification number. Replace as required.
- 4. Too much oil supplied to engine.
  - Improper oil pump adjustment, refer to an authorized SKI-DOO dealer.
  - On premixed models only, improper fuel/oil mixture. Drain fuel tank and refill with appropriate mixture ratio.
- 5. Water in fuel.
  - Drain fuel system and refill with fresh fuel.

#### SNOWMOBILE CANNOT REACH FULL SPEED.

- DESS did not read tether cord cap (DESS key) code. DESS/RER pilot lamp blinks once every 1.5 seconds. Engine can not exceed 3000 RPM.
  - Properly install.
- DESS has read a different code then the one programmed. DESS pilot lamp blinks rapidly (3 times per second). Engine can not exceed 3000 RPM.
  - Install a tether cord cap (DESS key) for which this snowmobile was programmed.
- Drive belt.
  - Check item 6 of ENGINE LACKS ACCELERATION OR POW-FR

#### SNOWMOBILE CANNOT REACH FULL SPEED. (cont'd)

#### 4. Incorrect track adjustment.

 See MAINTENANCE and/or an authorized SKI-DOO dealer for proper alignment and tension adjustments.

#### 5. Pulleys misaligned.

Contact an authorized SKI-DOO dealer.

#### Engine.

 See items 1, 2, 6 and 7 of ENGINE LACKS ACCELERATION OR POWER.

## **Engine Management System (EMS) Faults**

**NOTE:** For any fault code not listed below, refer to an authorized SKI-DOO dealer.

# 1 SHORT, 1 LONG BEEP AND DESS/RER PILOT LAMP ALSO BLINKS.

#### 1. Engine temperature sensor fault code.

 Check charging system and/or temperature sensor, see an authorized SKI-DOO dealer.

#### SDI Models

#### 2 SHORT BEEPS PER MINUTE.

#### 1. Low battery voltage.

Check battery and charging system.

# 2 SHORT BEEPS PER MINUTE AND DESS/RER PILOT LAMP BLINKS.

#### 1. High battery voltage.

Check battery and charging system.

#### DESS/RER PILOT LAMP BLINKS.

## 1. Engine Management System (EMS) fault code.

See an authorized SKI-DOO dealer.

## **SPECIFICATIONS**

NOTE: Because of its ongoing commitment to product quality and innovation, BRP reserves the right, at any time, to make changes in design and specifications and/or to make additions to, or improvements in its products without imposing any obligation upon itself to install them on its products previously manufactured.

MODEL		FAN-COOLED
		550F
ENGINE SYSTEM		
Engine type		Rotax 550, axial fan-cooled w/cylinder reed porting
Cylinders		2
Displacement	cc (in³)	553.4 (33.8)
Bore	mm (in)	76 (3)
Stroke	mm (in)	61 (2.4)
Maximum horsepower RPM		7000 RPM
Carburetion		2 x VM-34
Exhaust system		Single tuned pipe, baffle muffler
DRIVE SYSTEM		
Drive pulley type		Bombardier* Lite
Driven pulley type		LPV 27
Drive belt part number		415 060 600 <sup>(2)</sup>
Engagoment	GTX	3000 RPM
Engagement Others		3500 RPM
Small sprocket number of	GTX	21
teeth	Others	19
Large sprocket number of	GTX/Summit	45
teeth	MX Z/GSX	43

164 \_\_\_\_\_\_

MODEL		FAN-COOLED
MODEL	MODEL	
DRIVE SYSTEM (cont'd)		
Discourse last a week as a fit and	GTX/Summit	9
Drive sprocket number of teeth	MX Z/GSX	10
Brake system		Hydraulic, RT™ type brake lever
Track nominal width	Summit/GTX	406 mm (16 in)
Hack Hollillal Width	Others	381 mm (15 in)
Track naminal langth	GTX/Summit	3456 mm (136 in)
Track nominal length	MX Z/GSX	3072 mm (121 in)
	GTX/MX Z 550 X	31.8 mm (1.25 in)
Track profile height	Summit	44.5 mm (1.75 in)
	MX Z/GSX	22.2 mm (0.88 in)
Track adjustment	Deflection	30-35 mm (1-3/16 - 1-3/8 in)
,	Force (1)	7.3 kg (16 lb)
Track alignment		Equal distance between edges of track guides and slider shoes
SUSPENSION		
Format annual control	Summit	R.A.S.®
Front suspension	Others	R.A.S.® with sway bar
Frank alarah	MX Z 550 X	HPG™ clicker T/A
Front shock	Others	Motion control
Front suspension max. travel		229 mm (9 in)
	GTX/Summit	SC-136
Rear suspension	MX Z/GSX	SC-4™
Frank and about	MX Z 550 X	HPG T/A
Front arm shock	Others	Motion control

MODEL		FAN-COOLED		
		550F		
SUSPENSION (cont'd)				
	MX Z 550 X	HPG T/A		
Rear arm shock	GTX	HPG		
	Others	Motion control		
Rear suspension	GTX/Summit	330.7 mm (13 in)		
max. travel	MX Z/GSX	381 mm (15 in)		
ELECTRICAL				
Lightning system output		340 Watts @ 6000 RPM		
Headlamp bulb HI/LOW beam		2 x 60/55 Watts (H-4)		
Taillight bulb		8/27		
	Туре	NGK BR9ES		
Spark plug	Gap	0.45 ± 0.05 mm (.018 ± .002 in)		
Fuse		Refer to <i>FUSE</i> section		
DIMENSIONS				
	GTX	3075 mm (121.1 in)		
Vehicle overall length	Summit	3055 mm (120.3 in)		
	MX Z/GSX	2885 mm (113.6 in)		
Vehicle overall width	Summit	1163 to 1204 mm (45.8 to 47.4 in)		
	Others	1217 mm (47.9 in)		
	GSX	1160 mm (45.7 in)		
	GTX	1230 mm (48.4 in)		
Vehicle overall height	MX Z 550 X	1022 mm (40.2 in)		
	Summit	1122 mm (44.2 in)		
	Others	1105 mm (43.5 in)		

MODEL		FAN-COOLED
		550F
DIMENSIONS (cont'd)		
	MX Z	197 kg (435 lb)
Official during in he	GSX	211 kg (465 lb)
Official dry weight	GTX	229 kg (505 lb)
	Summit	208 kg (459 lb)
Ski stance	Summit	1138 to 1179 mm (44.8 to 46.4 in)
	Others	1195 mm (47 in)
Ski overall length		1066 mm (42 in)
Ski width	Summit	175 mm (6.9 in)
Ski width	Others	145 mm (5.7 in)
LIQUIDS		
Recommended fuel type		Regular unleaded
Minimum octane	Inside North America	(87 (RON + MON)/2)
Millimum octane	Outside North America	92 RON
Recommended oil (engine	- e)	Refer to RECOMMENDED OIL section
Brake system fluid		SRF (DOT 4) or GTLMA (DOT 4)
Oil type (chaincase)		XP-S synthetic chaincase oil
CAPACITIES		
Fuel tank	L (U.S. gal)	40 (10.6)
Oil tank L (U.S. quarts)		3.5 (3.7)

- Measure gap between slider shoe and bottom inside track when exerting a downward pull to the track.
- (2) Drive belt height must be adjusted every time a new drive belt is installed.

  Confirm drive belt part number application with an authorized SKI-D00 dealer.

MODEL		GTX SPORT 500 SS	
ENGINE SYSTEM			
Engine type		Rotax 500 SS, liquid cooled w/Reed valve, RAVE™	
Cylinders		2	
Displacement	cc (in³)	597 (36.4)	
Bore	mm (in)	76 (3)	
Stroke	mm (in)	65.8 (2.6)	
Maximum horsepower RPM		8000 RPM	
Carburetion		2 x TM-40	
Exhaust system		Single tuned pipe, baffle muffler	
DRIVE SYSTEM			
Drive pulley type		TRA™ III	
Driven pulley type		LPV VSA	
Engagement		3400 RPM	
Drive belt part number		417 300 197 <sup>(3)</sup>	
Small sprocket number of teeth		21	
Large sprocket number of teeth		43	
Drive sprocket number of teeth		10	
Brake system		Hydraulic, RT-type brake lever	
Track nominal width		381 mm (15 in)	
Track nominal length		3456 mm (136 in)	
Track profile height		22.3 mm (0.88 in)	
Track tension	Deflection	30-35 mm (1-3/16 - 1-3/8 in)	
	Force (1)	7.3 kg (16 lb)	

MODEL	GTX SPORT 500 SS						
DRIVE SYSTEM (cont'd)							
Track alignment	Equal distance between edges of track guides and slider shoes						
SUSPENSION							
Front suspension			R.A.S.® with sway bar				
Front shock			HPG				
Front suspension max. travel			229 mm (9 in)				
Rear suspension			SC-4				
Front arm shock			HPG				
Rear arm shock			HPG-VR				
Rear suspension max. travel			406.4 mm (16 in)				
ELECTRICAL							
Lightning system output		360 Watts @ 6000 RPM					
Headlamp bulb HI/LOW beam			2 x 60/55 Watts (H-4)				
Taillight bulb			8/27				
	Туре		NGK BR10ECS (2)				
Spark plug	Gap		$0.75 \pm 0.05 \text{ mm}$ (.030 ± .002 in)				
Fuse			Refer to FUSE section				
DIMENSIONS							
Vehicle overall length		3075 mm (121.1 in)					
Vehicle overall width	1217 mm (47.9 in)						
Vehicle overall height	1230 mm (48.4 in)						
Official dry weight	249 kg (549 lb)						
Ski stance	1195 (47)						
Ski overall length	1066 (42)						
Ski width		mm (in)	145 (5.7)				

MOD	GTX SPORT 500 SS		
LIQUIDS			
Recommended fuel type		Regular unleaded	
Minimum octane	Inside North America	(87 (RON + MON)/2)	
Willimum octane	Outside North America	92 RON	
Recommended oil (engine)	Refer to RECOMMENDED OIL section		
Brake system fluid	SRF (DOT 4) or GTLMA (DOT 4)		
Oil type (chaincase)	XP-S synthetic chaincase oil		
Coolant	Ethyl glycol/water mix (50% coolant, 50% distilled water). Use coolant specifically designed for aluminum engines.		
	Premix	(P/N 219 700 362) 12 x 1 L	
CAPACITIES			
Fuel tank	L (U.S. gal)	40 (10.6)	
Oil tank	L (U.S. quarts)	3.5 (3.7)	

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

<sup>(2)</sup> CAUTION: Do not attempt to adjust gap on spark plug BR10ECS.

<sup>(3)</sup> Drive belt height must be adjusted every time a new drive belt is installed. Confirm drive belt part number application with an authorized SKI-D00 dealer.

MODEL	GTX/SUMMIT			
MODEL	600 HO SDI			
ENGINE SYSTEM				
Engine type		Rotax 600 HO SDI, liquid cooled w/Reed valve, e-RAVE		
Cylinders		2		
Displacement	cc (in³)	594.4 (36.3)		
Bore	mm (in)	72 (2.8)		
Stroke	mm (in)	73 (2.9)		
Maximum horsepower RPM		8100 RPM		
Carburetion		Electronic SDI		
Exhaust system		Single tuned pipe, baffle muffler		
DRIVE SYSTEM				
Drive pulley type		TRA III		
Driven pulley type		HPV VSA		
Engagement	GTX	3800 RPM		
Lingagement	Summit	3900 RPM		
Drive belt part number		417 300 197 <sup>(3)</sup>		
Small sprocket number of	GTX	21		
teeth	Summit	19		
Large sprocket number of teeth	GTX	43		
Large sprocket number of teeth	Summit ADR	45		
Drive sprocket number of teeth	GTX	10		
Drive sprocket number of teeth	Summit Summit			
Brake system	Hydraulic, RT-type brake lever			
Track nominal width	GTX	381 mm (15 in)		
naak nominai wiath	Summit	406 mm (16 in)		

MODEL	GTX/SUMMIT					
MODEL	600 HO SDI					
DRIVE SYSTEM (cont'd)						
Track nominal length	GTX	3456 mm (136 in)				
rrack nominar length	Summit	3648 mm (144 in)				
Track profile height	GTX	22.3 mm (0.88 in)				
	Summit	57.2 mm (2.25 in)				
Track tension	Deflection	30-35 mm (1-3/16 - 1-3/8 in)				
	Force (1)	7.3 kg (16 lb)				
Track alignment	Equal distance between edges of track guides and slider shoes					
SUSPENSION						
Front suspension		R.A.S.® with sway bar				
Front shock		HPG				
Front suspension max. travel		229 mm (9 in)				
Poor quanancian	GTX	SC-4				
Rear suspension	Summit	SC-144				
Front arm shock		HPG				
Poor arm shook	GTX	HPG-VR				
Rear arm shock	Summit	HPG				
Poor quanancian may travel	GTX	406.4 mm (16 in)				
Rear suspension max. travel	Summit	330 mm (13 in)				

Mon	GTX/SUMMIT					
MOD	600 HO SDI					
ELECTRICAL	ELECTRICAL					
Lightning system output		480 Watts @ 6000 RPM				
Headlamp bulb HI/LOW bea	am	2 x 60/55 Watts (H-4)				
Taillight bulb		8/27				
	Туре	NGK BR8ECS (2)				
Spark plug	Gap	0.75 ± 0.05 mm (.030 ± .002 in)				
Fuse		Refer to FUSE section				
DIMENSIONS						
Valida acceptitant	GTX	3075 mm (121.1 in)				
Vehicle overall length	Summit	3115 mm (122.6 in)				
Vehicle overall width	GTX	1217 mm (47.9 in)				
	Summit	1163 to 1204 mm (45.8 to 47.4 in)				
Waliala accessible sinha	GTX	1230 mm (48.4 in)				
Vehicle overall height	Summit	1122 mm (44.2 in)				
	GTX LTD	260 kg (574 lb)				
Official dry weight	GTX Sport	254 kg (559 lb)				
	Summit	217 kg (479 lb)				
	GTX	1195 mm (47 in)				
Ski stance	Summit	1138 to 1179 mm (44.8 to 46.4 in)				
Ski overall length	Ski overall length					
Ski width	GTX	145 mm (5.7 in)				
SKI WIULII	Summit	175 mm (6.9 in)				

MODEL	GTX/SUMMIT				
NIODEL	600 HO SDI				
LIQUIDS					
Recommended fuel type		Regular unleaded			
Minimum octane	Inside North America	(87 (RON + MON)/2)			
William Octane	Outside North America	92 RON			
Recommended oil (engine)		Refer to RECOMMENDED OIL section			
Brake system fluid	SRF (DOT 4) or GTLMA (DOT 4)				
Oil type (chaincase)	XP-S synthetic chaincase oil				
Coolant	Mixture	Ethyl glycol/water mix (50% coolant, 50% distilled water). Use coolant specifically designed for aluminum engines			
	Premix	(P/N 219 700 362) 12 x 1 L			
CAPACITIES					
Fuel tank	Fuel tank L (U.S. gal)				
Oil tank	GTX	3.5 L (3.7 U.S. quarts)			
OII Tank	Summit	3.7 L (3.9 U.S. quarts)			

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

<sup>(2)</sup> **CAUTION**: Do not attempt to adjust gap on spark plug BR8ECS or BR9ECS.

<sup>(3)</sup> Drive belt height must be adjusted every time a new drive belt is installed.

Confirm drive belt part number application with an authorized SKI-D00 dealer.

# MAINTENANCE INFORMATION

## PERIODIC MAINTENANCE CHART

# **⚠** WARNING

It is recommended that the assistance of an authorized SKI-DOO dealer be periodically obtained on other components/systems not covered in this guide. Unless otherwise specified, engine must be cold and not running. Remove tether cord cap before performing any maintenance or adjustment, unless otherwise specified. Vehicle must be parked in a safe place, away from the trail.

# **↑** WARNING

Observe WARNINGS and CAUTIONS mentioned throughout this guide which are relevent to the item being checked. When component conditions seem less than satisfactory, replace with genuine BRP parts or approved equivalents.

Some items may not apply to your particular model. Refer to MAINTENANCE in *SHOP MANUAL* for more details.

		*1	0-H	0UI	R 0	R 5	00 K	(M (300 mi)
A: ADJUST C: CLEAN	WEEKLY OR EVERY 240 KM (150 mi)							
I: INSPECT L: LUBRICATE					0N1 10 m		OR EVERY 800 KM	
R: REPLACE T: PROCEED WITH TASK	ONCE A YEAR OR EVERY 3200							
*: TO BE PERFORMED BY AN AUTHORIZED								EACH 2 YEARS OR EVERY (M (3700 mi)
SKI-DOO DEALER							*S	TORAGE
								*PRESEASON
PART/TASK								LEGEND
ENGINE								
Rewind starter and rope						L, C	-	
Engine motor mounts	I			Ι		I		
Exhaust system	I			1		I		
Exhaust manifold screws	I						I	
Engine lubrication						Τ		
Cooling system	I			Ι			I	(3) Emission-related.
Coolant	I				R			
Crankshaft PTO seal							I	
RAVE valves (3)				С				
RAVE valves solenoid (SDI)				Ι				
Injection oil filter					R			
Oil injection pump	Α			Α			Α	
FUEL SYSTEM								
Add fuel stabilizer						Τ		
Fuel filter					R			
Fuel lines, fuel rail and connections	Ι			Ι			-	_
Carburetor							A, C	

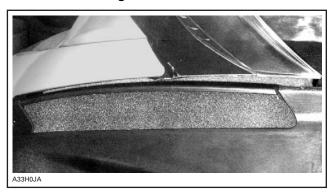
	*10-HOUR OR 500 KM (300 mi)							
A: ADJUST C: CLEAN	WEEKLY OR EVERY 240 KM (150 mi)							
I: INSPECT L: LUBRICATE R: REPLACE		MONTHLY OR EVERY 800 (500 mi)  ONCE A YEAR OR EVE						YEAR OR EVERY 3200 KM
T: PROCEED WITH TASK					(20	000 10		EACH 2 YEARS OR EVERY
*: TO BE PERFORMED BY AN AUTHORIZED						60		(M (3700 mi)
SKI-DOO DEALER							*8	TORAGE *PRESEASON
PART/TASK								LEGEND
FUEL SYSTEM (cont'd)		_		_		<u> </u>		
Throttle cable	ı			Ι			ı	
Air filter			С				С	
Fuel injection system (visual inspection)				1			Т	_
Throttle body (SDI)							С	
DRIVE SYSTEM								
Drive belt condition	_	_					_	
Drive belt height adjustment		EVERY BELT REPLACEMENT						
Drive and driven pulleys	1		Ι	С		1	С	
Tightening torque of drive pulley screw	I			1				(2) Lubricate whenever
Driven pulley preload	Ι			Τ			_	the vehicle is used in wet conditions (wet
Brake fluid	-	-			R		-	snow, rain, puddles).
Brake hose, pads and disk	-	_					_	
Drive chain tension	Α		Α			Α		
Countershaft lubrication (2)	Τ		T			Τ		
Chaincase oil	Ι		١			R	١	

	*10-HOUR OR 500 KM (300 mi)									
A: ADJUST C: CLEAN	WEEKLY OR EVERY 240 KM (150 mi)  MONTHLY OR EVERY 800 KM (500 mi)									
I: INSPECT L: LUBRICATE										
R: REPLACE T: PROCEED WITH TASK					01	<u> </u>		YEAR OR EVERY 3200 KM		
*: TO BE PERFORMED BY AN AUTHORIZED SKI-DOO DEALER			-			ONCE EACH 2 YEARS OR EVERY 6000 KM (3700 mi)				
							*STORAGE			
								*PRESEASON		
PART/TASK								LEGEND		
DRIVE SYSTEM (cont'd)										
Drive axle end bearing (2)	L		L			L		(2) Lubricate whenever		
Track condition	BEFORE EACH RIDE							the vehicle is used in wet conditions (wet		
Track tension and alignment	Α	AS REQUIRED						snow, rain, puddles).		
STEERING/FRONT SUSPE	NS	101	1							
Steering and front suspension mechanism (2)	I, L		_	L		I,L		(2) Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).		
Wear and condition of skis and runners	1	-				I				
SUSPENSION										
Suspension adjustments	Α	AS REQUIRED						(2) Lubricate whenever		
Rear suspension (2)	Ι		I, L			I, L		the vehicle is used in wet conditions (wet snow, rain, puddles).		
Suspension stopper strap				П		lт				

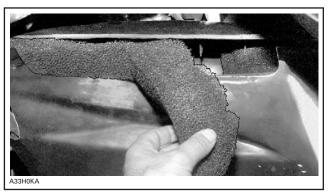
	*10-HOUR OR 500 KM (300 mi)									
A: ADJUST C: CLEAN I: INSPECT		WEEKLY OR EVERY 240 KM (150 mi)  MONTHLY OR EVERY 800 KM (500 mi)								
L: LUBRICATE R: REPLACE T: PROCEED WITH TASK			ONCE A YEAR OR EVERY 3200 KM (2000 mi)							
*: TO BE PERFORMED BY AN AUTHORIZED						ONCE EACH 2 YEARS OR EVERY 6000 KM (3700 mi) *STORAGE				
SKI-DOO DEALER							*5	*PRESEASON		
PART/TASK								LEGEND		
ELECTRICAL SYSTEM										
EMS fault codes (3)	1					Ι		(1) 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.  (3) Emission-related.		
Spark plugs <sup>(1)</sup>	1		1				R			
Battery (if so equipped)	-		-			Ι	_			
Wiring harnesses, cables and lines (3)	Ι		Ι			Ι				
Operation of lighting system (hi/lo beam, brake light, etc.), test operation of engine cut-out switch and tether cut-out switch	_	_				1				
VEHICLE										
Headlamp beam aiming				Α			Α	_		
Rags in air intake and exhaust system						Τ	Т			
Engine compartment	С		С			С				
Vehicle cleaning and protection	Τ		Т			Τ				

# **ENGINE SYSTEM**

# Air Filter Cleaning



AIR FILTER LOCATION



REMOVAL OF FILTER FROM ITS GRILL

Check that the air silencer is clean and dry and properly reinstall the filter.

**CAUTION:** Snowmobile engines have been calibrated with the filters installed. Operating the snowmobile without them may cause engine damage.

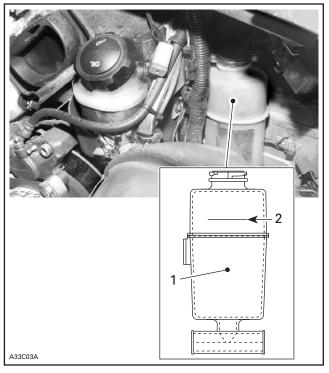
# **Cooling System**

### All Liquid-Cooled Models

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

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

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



#### TYPICAL

- 1. Coolant tank
- 2. COLD LEVEL line

## **Exhaust System**

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 gear clamps are properly tightened.

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.

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

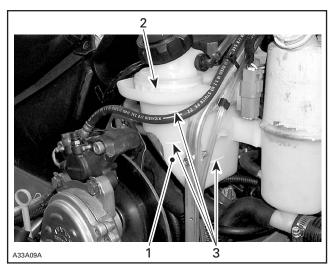
## Oil Injection System

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

**CAUTION:** Never allow oil reservoir to be almost empty. Do not mismatch oil reservoir cap with fuel tank cap. Install cap that is identified OIL.

# **⚠** WARNING

Check level and refill every time you refuel. Be careful not to overfill. Wipe off any spillage. Oil is highly flammable when heated.



#### TYPICAL

- 1. Injection oil reservoir
- Maximum level indicator: 13 mm (1/2 in) from top
- Level marks (1/4, 1/2, 3/4)

# **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 needs 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 2007 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:

#### REGULAR U.S. POSTAL MAIL:

1200 Pennsylvania Ave. NW Mail Code 6403J Washington D.C. 20460

#### FOR ALL COURIER SERVICES:

U.S. Environmental Protection Agency Office of Transportation and Air Quality 1310 L Street NW Washington D.C. 20005

## INTERNET WEB SITE:

www.epa.gov/otag/

#### E-MAIL:

otaqpublicweb@epa.gov

# DRIVE SYSTEM

### **Belt Guard Removal and Installation**

# **⚠** WARNING

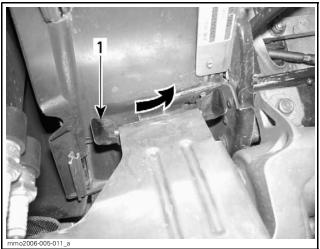
NEVER operate engine:

- without shields and belt guard securely installed
- with hood 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 tether cord cap.
- Open engine compartment.
- Open retainer to release pin then pull belt quard out of vehicle.

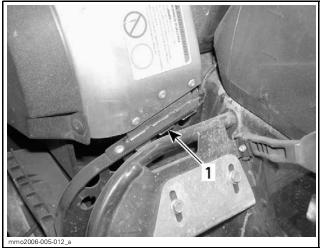


TYPICAL

1. Pin retainer

When reinstalling belt guard, position its cutaway toward front of snowmobile. Refer to decal in belt guard.

Place belt guard slots over tabs first, then snap the other end in retainer.



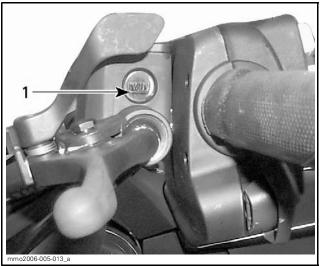
TYPICAL 1. Slots

### **Brake Fluid Level**

**CAUTION:** 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.

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



TYPICAL — BRAKE FLUID RESERVOIR

1. Minimum

#### .....

# **Brake Condition**

# 

The brake mechanism on your snowmobile is an essential safety device. Keep this mechanism in proper working condition. Above all, do not operate the snowmobile without an effective brake system. Periodically verify the condition/wear of the brake pads.

## **Brake Adjustment**

No adjustment is provided for hydraulic brake. See an authorized SKI-DOO dealer if any problems.

## Chaincase Oil Level

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

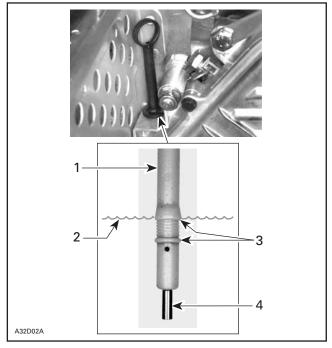
With snowmobile on a level surface, check the oil level by removing dipstick. Oil level must be between lower and upper marks.

**NOTE:** It is normal to find metallic particles stuck to dipstick magnet. If bigger pieces of metal are found, see an authorized SKI-DOO dealer.

Remove metal particles from magnet.

Refill up to upper mark using recommended oil, refer to SPECIFICA-TIONS.

**CAUTION:** Do not use other unrecommended types of oil when servicing. Do not mix synthetic oil with other types of oil.



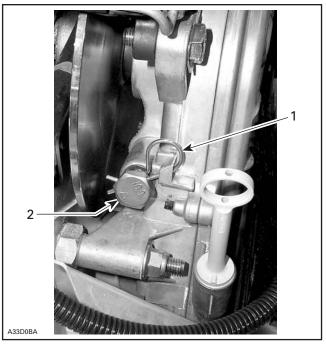
### TYPICAL

- Dipstick
- 2. Oil level
- 3. Level between marks
- 4. Magnet

## **Drive Chain Tension**

Remove hair pin.

Fully tighten tensioner adjustment screw by hand, then back off only far enough for hair pin to engage in locking hole.



#### TYPICAL

- 1. Hair pin
- 2. Adjustment screw

# **Drive Belt Condition**

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

## **Drive Belt Removal/Installation**

# **⚠** WARNING

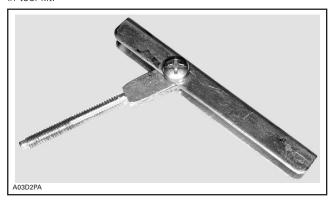
Remove tether cord cap before performing any maintenance or adjustment, unless otherwise specified. Vehicle must be parked in a safe place, away from the trail.

#### Removal

**NOTE:** Removal and installation of drive belt is easier when driven pulley is held with brake so that it can not rotate. Apply parking brake, for this purpose.

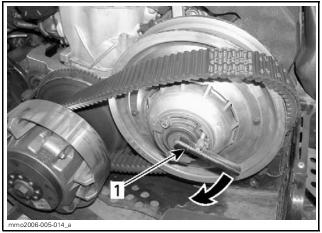
Remove tether cord cap. Open LH side panel and remove belt guard.

Open the driven pulley with the drive belt installer/remover provided in tool kit



#### DRIVE BELT INSTALLER/REMOVER

Screw drive belt installer/remover in the free threaded hole and tighten to open the pulley. Remove belt.

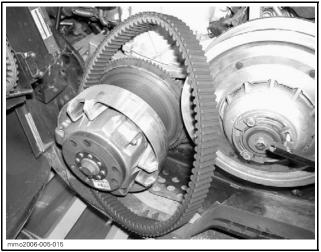


**TYPICAL** 

1. Tighten to open pulley

Slip the belt over the top edge of the sliding half of driven pulley, as shown in previous photo.

Slip belt under drive pulley then, remove it from vehicle.



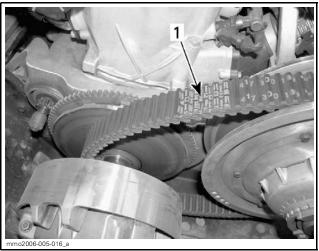
TYPICAL

Clean sheaves of both pulleys using Pulley Flange Cleaner (P/N 413 711 809).

#### Installation

To install the drive belt, reverse the removal procedure, however pay attention to the following:

The maximum drive belt life span is obtained when the belt has the proper rotation direction. See arrow on belt.



TYPICAL

Arrow pointing front of vehicle

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

To install the drive belt, first place belt between drive pulley sheaves. Then, between driven pulley sheaves, finishing with bottom.

Remove drive belt installer/remover. Reinstall belt guard.

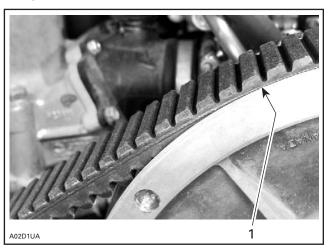
Close LH side panel.

# **Drive Belt Height Adjustment**

To obtain maximum vehicle performance and drive belt longevity, drive belt height adjustment must be performed every time a new drive belt is installed.

**NOTE:** If correct adjustment is unattainable, contact an authorized SKI-DOO dealer.

The drive belt cord should be flush with driven pulley edge. Adjust as required.



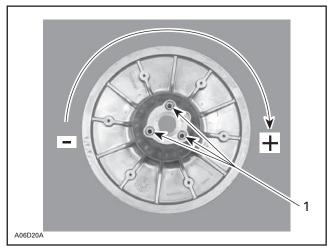
TYPICAL 1. Flush

### Fan Cooled Models

Adjust drive belt height using Allen screws, as shown.

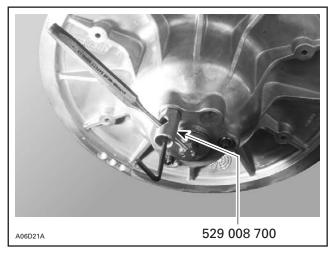
- To lower belt in driven pulley: turn Allen screws clockwise.
- To raise belt in driven pulley: turn Allen screws counterclockwise.

**NOTE:** Turn Allen screws 1/4 turn at a time, then rotate driven pulley to allow drive belt to settle in pulley. Check height, repeat as required.



TYPICAL
1. Allen screws with jam nuts

Allen screws must be restrained while tightening jam nut to prevent throwing adjustment out. Use drive belt tension adjuster (P/N 529 008 700).

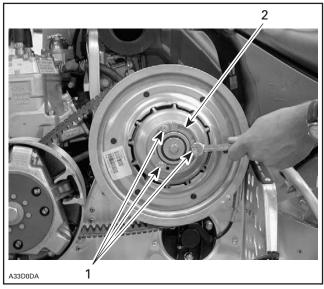


#### TYPICAL

## Liquid Cooled Models

Loosen screws and turn adjustment ring as follows:

- To lower belt in driven pulley: turn adjustment ring counterclockwise and tighten the screws.
- To raise belt in driven pulley: turn ring clockwise and tighten the adjustment screws.



- 1. Screws
- 2. Adjustment ring

Turn the adjustment ring up to one notch, tighten the screws, then rotate driven pulley to allow drive belt to settle in pulley. Check height, if required the adjustment ring can be turned up to 1/4 or 1/2 the notch. Check height, repeat as required.



DRIVEN PULLEY NOTCHES

**NOTE:** Notches are there on the driven pulley for reference purpose only and the desired adjustment can be attained at any point.

# **Drive Pulley Adjustment**

# **⚠** WARNING

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

#### General

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

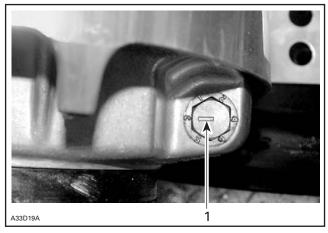
This adjustable drive pulley allows setting maximum engine RPM in the vehicle to maintain maximum power.

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

NOTE: Use precision digital tachometer for engine RPM adjustment.

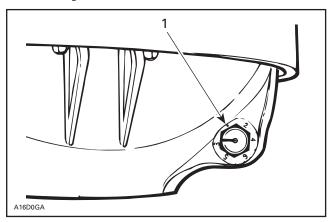
NOTE: The adjustment has an effect on high RPM only.

Calibration screw has a notch on top of its head.



#### 1. Notch

There are 6 positions numbered 1 to 6. On TRA drive pulley, note that in position 1 the number is substituted by a dot (due to its location on casting).



TRA DRIVE PULLEY
1. Position 1 (not numbered)

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.

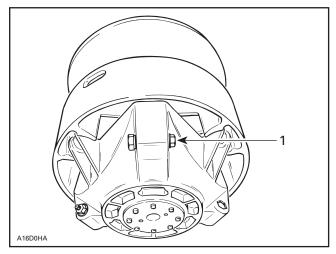
### Example:

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

### Adjustment

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

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



TYPICAL

1. Loosen just enough to permit rotating of calibrate screw

# **⚠** WARNING

NEVER disassemble or modify the drive pulley.

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

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

# **⚠** WARNING

NEVER operate engine:

- without shields and belt guard securely installed
  - with hood opened or removed.

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

### Track Condition

# **↑** WARNING

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

Remove tether cord cap.

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

## **Snowmobiles Equipped with Traction Enhancing Products**

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

Look for any defects, such as:

- perforations in the track
- tears in the track (particularly around traction holes on studded tracks)
- lugs that are broken or torn off, exposing portions of rods
- delamination of the rubber

- broken rods
- broken studs (studded tracks)
- bent studs (studded tracks)
- missina studs
- studs that are torn off the track
- missing track guide(s)
- also, ensure that studs nut are tighten to the recommended torque.

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

# **⚠ WARNING**

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

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

## **Track Tension and Alignment**

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

# **↑** WARNING

To prevent serious injury to individuals near the snowmobile:

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

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

#### Tension

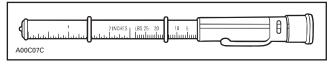
NOTE: Ride the snowmobile in snow about 15 to 20 minutes prior to adjusting track tension.

Remove the tether cord cap.

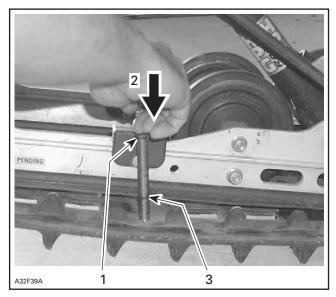
Lift rear of snowmobile and support it with a wide-base snowmobile mechanical stand

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 *SPECIFI-CATIONS* 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**

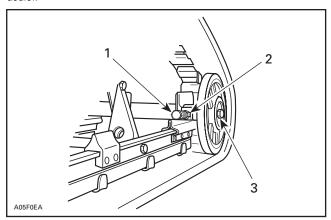
- 1. Top tool O-ring positioned at 7.3 kg (16 lb)
- 2. Push on top portion of tool until it contacts the top O-ring
- 3. Measured track deflection

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

To adjust track tension:

- Remove the tether cord cap.
- On some models, remove rear wheel caps.
- Loosen the rear idler wheel retaining screws.
- Loosen the lock nuts (on so equipped models) then turn adjustment screws to adjust.

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



### TYPICAL

- 1. Adjustment screw
- 2. Loosen lock nut (on so equipped models)
- Loosen screw
- Retighten retaining screws and lock nuts (on so equipped models)
- Check track alignment as described below.

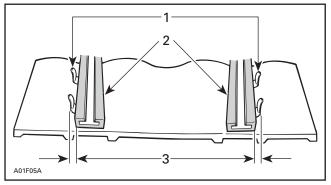
# **⚠** WARNING

Before checking track alignment, ensure that the track is free of all particles which could be thrown out while track is rotating. Keep hands, tools, feet and clothing clear of track. Always lift the snowmobile on a wide-base stand with a rear deflector panel. Ensure no one is standing in close proximity to the snowmobile, especially at the rear of the track. Never rotate track at high speed.

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

Start the engine and accelerate slightly so that track barely turns. This must be done in a short period of time (15 to 20 seconds).

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

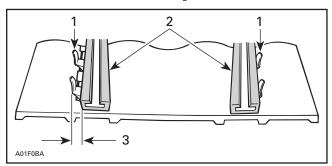


- 1. Guides
- 2. Slider shoes
- 3. Equal distance

# **⚠** WARNING

Remove tether cord cap 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.
- Loosen rear idler wheel retaining screws.
- Loosen the lock nuts (on so equipped models).
- Tighten the adjustment screw on side where the slider shoe is the farthest from the track insert guides.

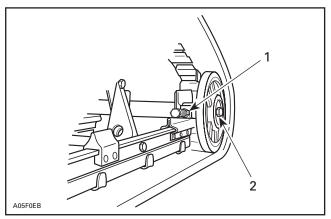


- 1. Guides
- 2. Slider shoes
- 3. Tighten on this side

Tighten lock nuts (some models only) and retaining screws.

# **↑** WARNING

If lock nuts are not tightened properly, the adjusting screws could loosen causing the track to become extremely loose and, under some operating conditions, allow the idler wheels to climb over the track lugs forcing the track against the tunnel causing the track to "lock". Properly tighten wheel retaining screws, otherwise wheel may come off and cause track to "lock".



### **TYPICAL**

- Retighten (so equipped models) Retighten to 48 N•m (35 lbf•ft)

Restart engine and rotate track slowly to recheck alignment.

Reposition snowmobile on ground.

Install rear wheel caps if so equipped.

## **ELECTRICAL SYSTEM**

### **Battery Electrolyte**

### Electric Start Models Only

These vehicles are equipped with a maintenance-free battery. Electrolyte level can not be checked.

# **⚠ WARNING**

BLACK negative battery cable must always be disconnected first and connected last.

# **↑** WARNING

Never charge or boost battery while installed. Battery electrolyte contains sulfuric acid which is corrosive and poisonous. In case of contact with skin, flush with water and call a physician immediately.

# **⚠ WARNING**

Should the battery casing be damaged, wear a suitable pair of non-absorbent gloves when removing the battery by hand.

**CAUTION:** Should any electrolyte spillage occur, immediately wash off with a solution of baking soda and water to prevent damage to vehicle components.

# **REAR SUSPENSION**

# **Rear Suspension Condition**

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

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

# Suspension Stopper Strap Condition

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

## STEERING AND FRONT SUSPENSION

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.

## Wear and Condition of Skis and Runners

Check the condition of the skis, ski runners and ski runner carbides (if so equipped). If worn, contact an authorized SKI-DOO dealer.



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

# **BODY/FRAME**

## Vehicle Cleaning and Protection

Remove any dirt or rust.

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

**CAUTION:** 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).

CAUTION: 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).

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

Clean sheaves of both pulleys using Pulley flange cleaner (P/N 413 711 809).

Inspect the hood and repair any damage.

Touch up all metal spots where paint has been scratched off. Spray all metal parts including shock chromed rods with XP-S Lube (P/N 293 600 016).

Wax painted portion of the vehicle for better protection.

**NOTE:** Apply wax on glossy finish only. Protect the vehicle with a cover to prevent dust accumulation during storage.

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

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

# **⚠ WARNING**

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

NOTE: Do not release track tension

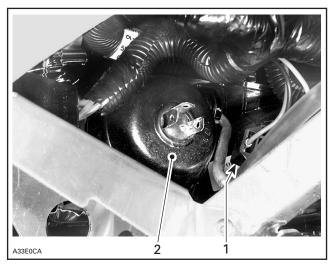
## **Bulb Replacement**

Always check light operation after bulb replacement.

### Headlamp

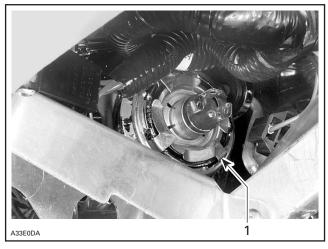
**CAUTION:** Never touch glass portion of an halogen bulb with bare fingers, it shortens its operating life. If glass is touched, clean it with isopropyl alcohol which will not leave a film on the bulb.

Unplug burnt bulb connector. Remove the rubber boot.



- 1. Bulb connector
- 2. Rubber boot

Turn bulb locking ring counterclockwise to remove it. Detach the bulb and replace. Properly reinstall parts.



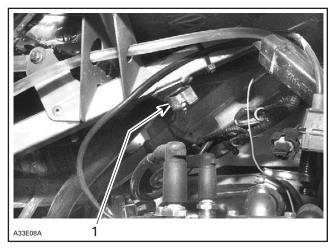
1. Locking ring

### **Taillight**

If taillight bulb is burnt, expose the bulb by removing the red plastic lens. To remove, unscrew the 2 lens screws.

# **Headlamp Beam Aiming**

Open left side panel. Turn knob to adjust beam height.



TYPICAL 1. Knob

# STORAGE AND PRESEASON PREPARATION

# **⚠** WARNING

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

# Storage

It is during summer, or when a snowmobile is not in use for more than one month that proper storage is a necessity.

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

## **Engine Cooling System**

Antifreeze should be replaced every 2 years or 6000 km (3700 mi) to prevent antifreeze deterioration.

The antifreeze replacement and a density test should be performed by an authorized SKI-DOO dealer.

CAUTION: Improper antifreeze mixture might allow freezing of the liquid in the cooling system if vehicle is stored in area where freezing point is reached. This would seriously damage the engine. Failure to replace the antifreeze for storage may allow its degradation that could result in poor cooling when engine will be used.

CAUTION: Do not run engine during storage period.

# **Preseason Preparation**

Refer to an authorized SKI-DOO dealer.

**CAUTION:** On so equipped models, have carburetor(s) cleaned-up before restarting engine.

# **WARRANTY**

# BRP LIMITED WARRANTY NORTH AMERICA: 2008 SKI-DOO® SNOWMOBILES

## 1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")\* warrants its 2008 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

All genuine Ski-Doo parts and accessories, installed by an authorized BRP dealer at the time of delivery of the 2008 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

A GPS receiver may be supplied by BRP as standard equipment on certain 2008 Ski-Doo snowmobiles. The GPS receiver is covered by the limited warranty issued by the GPS receiver's manufacturer and is not covered by this BRP limited warranty.

Use of the product for racing or any other competitive activity, at any point, even by a previous owner, will render this warranty null and void.

# 2) 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.

# 3) 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.

# 4) WARRANTY COVERAGE PERIOD

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

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

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

The EPA certified snowmobiles are those equipped with the following engines:

EMISSION-RELATED COMPONENTS	550F	500SS	600 HO SDI
Carburetor	Х	Χ	
Carburetor air intake adapter	Χ	Χ	X
Reed valve	Х	Χ	X
Rave hose system			X
Throttle Position Sensor (TPS)			X
Air Temperature Sensor (ATS)			X
Air Pressure Sensor (APS)			Х
Knock sensor			X
Fuel pressure regulator			Х
Fuel injectors			X
Engine Management System (EMS)			Х
Muffler temperature sensor			Х

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 2008 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 2008 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 notify a servicing BRP dealer within two (2) days of the appearance of a defect, and provide it with reasonable access to the product and reasonable opportunity to repair it. The customer must also present to the authorized BRP dealer, proof of purchase of the product and must sign the repair/work order prior to starting the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of BRP.

# 7) WHAT BRP WILL DO

BRP's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine Ski-Doo parts without charge for parts and labor, at any authorized BRP dealer during the warranty coverage period.

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:

- 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
- b) 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

- a) 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.
- b) 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.

Consumer Services Group 75, J.-A. Bombardier Street Sherbrooke, Québec J1L 1W3

Tel.: 819 566-3366

#### In USA

#### BRP US INC.

Consumer Services Group 7575 Bombardier Court Wausau WI 54401

Tel.: 715 848-4957

<sup>\*</sup> In the USA, products are distributed and serviced by BRP US Inc.

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<sup>®</sup> Registered trademark of Bombardier Recreational Products Inc.

# BRP INTERNATIONAL LIMITED WARRANTY: 2008 SKI-DOO® SNOWMOBILES

# 1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP") warrants its 2008 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 Union from defects in material or workmanship for the period and under the conditions described below

All genuine Ski-Doo parts and accessories, installed by an authorized BRP distributor/dealer at the time of delivery of the 2008 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

A GPS receiver may be supplied by BRP as standard equipment on certain 2008 Ski-Doo snowmobiles. The GPS receiver is covered by the limited warranty issued by the GPS receiver's manufacturer and is not covered by this BRP limited warranty.

Use of the product for racing or any other competitive activity, at any point, even by a previous owner, will render this warranty null and void.

### 2) 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.

# 3) 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.

# 4) WARRANTY COVERAGE PERIOD

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

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

# 5) CONDITIONS TO HAVE WARRANTY COVERAGE

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

- The 2008 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 2008 Ski-Doo snowmobile must be purchased in the country or union of countries 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 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 your country.

## WHAT BRP WILL DO

BRP's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine Ski-Doo parts without charge for parts and labor, at any authorized BRP distributor/dealer during the warranty coverage period.

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

- a) 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.
- b) If further assistance is required, the distributor's service department should be contacted in order to resolve the matter. You can find your distributor's coordinates on www.brp.com.
- If the matter still remains unresolved then contact BRP at the address listed below

# For Russia, CIS and the Middle East, please contact our European office:

#### BRP EUROPE N.V.

Consumer Services Group Skaldenstraat 125 9042 Gent Belgique

Tel.: + 32-9-218-26-00

# For Scandinavia and European countries, please contact our Finland office:

#### BRP FINLAND OY

Service Department Ahjotie 30 FIN-96320 Rovaniemi

Finland

Tel.: + 358 16 3208 111

# For all other countries, please contact our North American office:

### BOMBARDIER RECREATIONAL PRODUCTS INC.

Consumer Services Group 75, J.-A. Bombardier Street Sherbrooke, Québec J1L 1W3

Tel.: 819 566-3366

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<sup>®</sup> Registered trademark of Bombardier Recreational Products Inc.

# BRP EUROPEAN UNION MEMBER STATES LIMITED WARRANTY: 2008 SKI-DOO® SNOWMOBILES

# 1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")\* warrants its 2008 Ski-Doo snowmobiles sold by authorized BRP distributor/dealer (as hereinafter defined) in states members of the European Union from defects in material or workmanship for the period and under the conditions described below

All genuine Ski-Doo parts and accessories, installed by an authorized BRP distributor/dealer (at the time of delivery of the 2008 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

A GPS receiver may be supplied by BRP as standard equipment on certain 2008 Ski-Doo snowmobiles. The GPS receiver is covered by the limited warranty issued by the GPS receiver's manufacturer and is not covered by this BRP limited warranty.

Use of the product for racing or any other competitive activity, at any point, even by a previous owner, will render this warranty null and void

# 2) 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.

## 3) LIMITATIONS OF LIABILITY

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

Neither the distributor, any BRP distributor/dealer nor any other person has been authorized to make any affirmation, representation or warranty regarding the product, other than those contained in this limited warranty, and if made, shall not be enforceable against BRP.

BRP reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the products sold while this warranty is in effect.

# 4) WARRANTY COVERAGE PERIOD

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

TWENTY-FOUR (24) CONSECUTIVE MONTHS for private use owners, and TWELVE (12) CONSECUTIVE MONTHS for commercial use owners. However, the warranty coverage period on a snowmobile delivered between June 1st and December 1st of a given year will expire December 1st 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 your country.

# 5) CONDITIONS TO HAVE WARRANTY COVERAGE

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

- The 2008 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 2008 Ski-Doo snowmobile must be purchased in the country or union of countries 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 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 your country.

## 7) WHAT BRP WILL DO

BRP's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine Ski-Doo parts without charge for parts and labor, at any authorized BRP distributor/dealer during the warranty coverage period.

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 authorised 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

- a) 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.
- b) If further assistance is required, the distributor's service department should be contacted in order to resolve the matter. You can find your distributor's coordinates on www.brp.com.
- If the matter still remains unresolved then contact BRP at the address listed below.

# For Russia, CIS and the Middle East, please contact our European office:

#### BRP EUROPE N.V.

Consumer Services Group Skaldenstraat 125 9042 Gent Belgique

Tel.: + 32-9-218-26-00

# For Scandinavia and European countries, please contact our Finland office:

#### BRP FINLAND OY

Service Department Ahjotie 30 FIN-96320 Rovaniemi Finland

Tel.: + 358 16 3208 111

# For all other countries, please contact our North American office:

#### BOMBARDIER RECREATIONAL PRODUCTS INC.

Consumer Services Group 75, J.-A. Bombardier Street Sherbrooke, Québec J1L 1W3

Tel.: 819 566-3366

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<sup>®</sup> Registered trademark of Bombardier Recreational Products Inc.

# PRIVACY OBLIGATIONS/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 helow

Also note that, from time to time, carefully selected and trustworthy organizations may be permitted to use the coordinates of our clients to promote quality products and services. If you prefer not to have your name and address released, please let us know by writing to the address below:

#### In Canada

#### BOMBARDIER RECREATIONAL PRODUCTS INC.

Warranty Department 75, J.-A. Bombardier Street Sherbrooke, Québec J1L 1W3 Fax Number: 819 566-3590

#### In USA

#### BRP US INC.

Warranty Department 7575 Bombardier Court Wausau WI 54401 Tel.: 715 848-4957

## For Russia, CIS and the Middle East

#### BRP EUROPEAN DISTRIBUTION

After Sales Service Department Chemin de Messidor 5-7 1006 Lausanne Switzerland Fax Number: + 41213187801

## For Scandinavian and European countries

#### BRP FINLAND OY

Service Department Ahjotie 30 FIN-96320 Rovaniemi

Finland

Tel.: + 358 16 3208 111

## For all other countries, please contact A) or B)

A) Your respective distributor (you will find is coordinates on www.brp.com).

#### B) Our North American office:

#### BOMBARDIER RECREATIONAL PRODUCTS INC.

Warranty Department 75, J.-A. Bombardier Street Sherbrooke, Québec J1L 1W3 Canada

Fax Number: 819 566-3590

# **CHANGE OF ADDRESS/OWNERSHIP**

If your address has changed or if you are the new owner of the vehicle, be sure to notify BRP by either:

- mailing one of the following card below;
- North America Only: calling at 715 848-4957 (USA) or 819 566-3366 (Canada);
- notifying an authorized SKI-DOO dealer.

#### In North America

#### BOMBARDIER RECREATIONAL PRODUCTS INC.

Warranty Department 75, J.-A. Bombardier Street Sherbrooke, Québec J1L 1W3 Fax Number: 819 566-3590

#### For Russia, CIS and the Middle East

#### BRP FUROPEAN DISTRIBUTION

After Sales Service Department Chemin de Messidor 5-7 1006 Lausanne Switzerland

Fax Number: + 41213187801

# For Scandinavian and European countries

#### **BRP FINLAND OY**

Service Department Ahjotie 30 FIN-96320 Rovaniemi Finland

Tel.: + 358 16 3208 111

## For all other countries, please contact A) or B)

A) Your respective distributor (you will find is coordinates on www.brp.com).

#### B) Our North American office:

## BOMBARDIER RECREATIONAL PRODUCTS INC.

Warranty Department 75, J.-A. Bombardier Street Sherbrooke, Québec J1L 1W3 Canada

Fax Number: 819 566-3590

In case of change of ownership, please join a proof that the former owner agreed to the transfer.

Notifying BRP, even after the expiration of the limited warranty, is very important as it enables BRP to reach the vehicle owner if necessary, like when safety recalls are initiated. It is the owner's responsibility to notify BRP.

STOLEN UNITS: If your personal vehicle is stolen, you should notify BRP or an authorized SKI-DOO dealer. We will ask you to provide your name, address, phone number, the vehicle identification number and the date it was stolen.

CHANGE 0	CHANGE OF ADDRESS	CHANGE OF	CHANGE OF OWNERSHIP
VEHICLE IDE	VEHICLE IDENTIFICATION NUMBER		
OLD ADDRESS	OLD ADDRESS		
	NAME		TELEPHONE
	NO.	STREET	APT.
	CITY	STATE/PROVINCE	ZIP/POSTAL CODE
NEW OR NEV	NEW ADDRESS OR NEW OWNER		
	NAME		TELEPHONE
	NO.	STREET	APT.
A00A81	CITY	STATE/PROVINCE	ZIP/POSTAL CODE



520 000 682

CA

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

FAIT AU / MADE IN CANADA

U/M:P.C.