SKI-GOO®

Operator's Guide



ZX™ Series REV® Series

SAFETY WARNING

Disregarding any of the safety precautions and instructions contained in this *Operator's Guide, Safety Videocassette* or on-product warnings may result in injury, including the possibility of death.

This *Operator's Guide* and *Safety Videocassette* should remain with the unit at time of resale.

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 GTX^{\dagger} $MX-Z^{\circledR}$

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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*.

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

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.

⚠ WARNING

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. When used without the safety alert symbol \triangle , 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 completed the Warranty Registration Form which is to be sent to us for processing.

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.

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SAFETY MEASURES

Observe the Following Warnings:

- ▲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.
- ▲ 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.
- ▲ Know the local laws regarding snowmobiles and be aware of the liability, property damage and insurance laws relating to your equipment.
- ▲ Always keep right hand side of the trail.
- ▲Always keep a safe distance from other snowmobiles and bystanders.
- Δ Jumping a snowmobile is an unsafe and dangerous practice.
- ▲ 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.
 Check your machine before each ride.
- ▲ Always make a pre-start inspection BEFORE you turn on the ignition.
- △If you are a parent, you must be the judge of your child's capability to understand, to operate and to control a snowmobile. Warn against speeding, over confidence and carelessness. Never let children snowmobile unsupervised.
- ▲ 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.
- A 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.
- △ 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.
- △ Snowmobile can carry a passenger only if it is equipped with a 2-up or 3-up seat including a single hand grip (seat strap) or a double hand grip (rear passenger grab handles).
- ⚠ The passenger (s) must be able to completely lean is feet on the footrests and keep his hands on the grab handles or seat strap at all times when he is seated on the snowmobile.
- ▲ 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 key.
- ▲ Your snowmobile is not designed to be operated on public streets, roads or highways. In most States and Provinces, it is considered an illegal operation.
- △ 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.
- ▲ Always stop the engine before refueling. Fuel is inflammable 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.
- △ 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.
- △ Unless otherwise specified, never run the engine when the track is raised off the ground or with the hood opened or removed.
- ▲ Maintain your snowmobile in top mechanical condition at all times.

- ▲ Do not lubricate throttle cable and housing.
- △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.
- ▲ Electric start models only: Never charge or boost a battery while installed on snowmobile.
- ▲ Electronic reverse (RER™) models only: The shifting to reverse mode on these snowmobiles is done by the push of the RER button when the engine is running. Wait until the reverse alarm sounds and the Rotax Electronic Reverse (RER) pilot lamp comes on in the dashboard 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 and control. Come to complete stop before depressing RER button. Always remain seated and apply the brake before shifting. Ensure the path behind is clear of obstacles or bystanders before proceeding.
- ▲ Models with mechanical reverse: The reverse speed of these snowmobiles is not limited. Always proceed with caution as fast reverse could result in loss of vehicle stability and control. Come to complete stop before selecting reverse gear. Wait until the reverse alarm sounds before operating throttle to proceed in reverse. Always remain seated and apply the brake before shifting. Ensure the path behind is clear of obstacles or bystanders before proceeding.

SAFETY INFORMATION

INTRODUCTION

This safety information section includes safety WARNINGS which if not followed may result in serious personal injury including the possibility of death.

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. An extra copy of the *Operator's Guide* is available from your SKI-DOO snowmobile dealer at no charge.

This safety information section is dedicated to safer snowmobiling.

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

SAFETY LABELING

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 signifies 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.



OTHER SAFETY FEATURES

Read this *Operator's Guide* for other features that may be on your particular snowmobile model. Do not operate your snowmobile unless all its safety features are in place and in good working order.

Lights — Head lamp, taillight and brake light are standard equipment. Be sure lights are clear of dirt, slush or snow and are in good working order or condition.

HOW TO DRESS

Proper snowmobile clothing should be worn. It should be comfortable and not too tight. Always check the weather forecast before you go on a ride. Dress for the coldest weather expected. Thermal underwear next to the skin also provides an important layer of 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 which attach to the helmet are indispensable.

Hands should be protected by a pair of snowmobile gloves or mitts which have sufficient insulation and permit 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.

A WORD TO ALL SNOWMOBILERS

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 another one.

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 the least bit 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.

TRANSPORTING AND TOWING

Follow transporting and towing instructions explained further in this guide.

TRACTION ENHANCING PRODUCTS

Using more positive carbide ski runners and traction enhancing products on your snowmobile will change its behavior, particularly in terms of manoeuvrability, acceleration, and braking.

Studding the track 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 (studs, carbide ski runners) requires a certain adaptation period. If your snowmobile is equipped with traction 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 studs on snowmobiles. Always drive your snowmobile in a responsible manner, respecting the environment and other people's property.

Manoeuvrability:

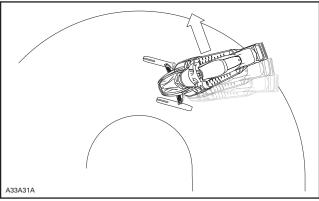
Studding the track makes the snowmobile grip the ground better at the rear. The use of carbide runners is therefore required to give the skis a better grip, so that the front and rear of the snowmobile are in balance. While off-the-shelf carbide ski runners are adequate, they don't necessarily give you optimal control, since that depends on your personal preferences, your riding style, and how your suspension is set.

⚠ WARNING

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

1- Oversteering

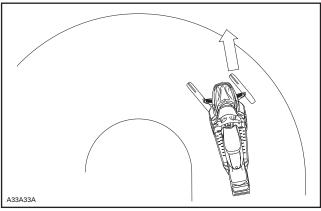
In certain conditions, using more positive carbide ski runners without studding the track could make the snowmobile prone to oversteering, see illustration.



OVERSTEERING

2- Understeering

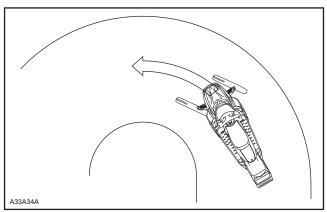
In certain conditions, the use of studs could make the snowmobile prone to understeering if the skis are not equipped with more positive carbide runners, see illustration.



UNDERSTEERING

3- Controlled Driving

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



CONTROLLED DRIVING

Acceleration:

Studding 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.

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

Important Safety Rules:

⚠ WARNING

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 Studding 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, and chaincase sprocket, and shorten track life. For this reason, it is even more important to follow the detailed maintenance program given in the periodic inspection table.

Studs 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.

$oldsymbol{\Delta}$ warning

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

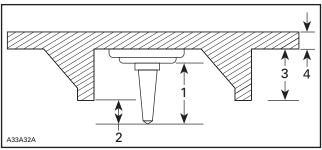
CAUTION: Ask your dealer for the appropriate tunnel protectors model and kit number required for your snowmobile.

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

Installation of Studs:

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

- Use only studs, mounting plates, and bolts 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).

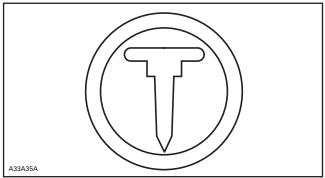


INSTALLATION OF STUDS

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

- Never stud a track that has not been approved for studs. Approved tracks can be identified by a stud symbol (see illustration) molded into the track surface.
- 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.



APPROVED TRACKS CAN BE IDENTIFIED BY THIS SYMBOL

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)
- lugs that are broken or torn off, exposing portions of rods
- delamination of the rubber
- broken rods
- broken studs
- bent studs
- studs that are torn off the track
- missing track guide(s).

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 follow the inspections schedule given in the periodic maintenance table.

⚠ WARNING

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

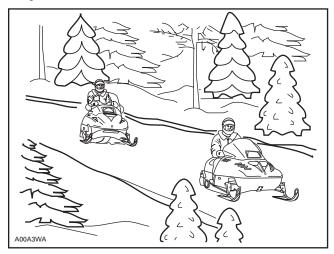
LAWS AND REGULATIONS

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.

SUMMARY OF ACCIDENT PREVENTION PRACTICES

- ▲ 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.
- △ Do not leave your keys in the ignition switch, it presents an invitation to thieves and a danger to young children.
- ▲ Nature is wonderful but don't let it distract your attention from driving. If you want to truly appreciate winter's scenery, stop your snowmobile on the side of the trail so that you don't become a hazard to others.
- △ Fences represent a very serious threat for both you and your snowmobile. Give a wide berth to telephone poles or posts.
- ▲ Hidden wires unseen from a distance can cause serious accidents. Obtain reflective tape or markings to identify hazardous wires near your trail.
- △Overhead branches can cause driver distraction, cut faces and even cause eye damage. Always wear an approved safety helmet, eye protection and a face shield. This also applies to your passenger.
- △Smoking while refueling or while checking the fuel level can be dangerous. All fuel gives off fumes. If you do smoke, do so away from the snowmobile.
- ▲ Although the snow on the ground measures several inches and even feet in depth, dry grasses — in certain areas — may extend above snow level. Remove any such accumulation from track, engine and gas tank areas.
- ▲ 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.



- ⚠ Make certain you check the throttle movement prior to starting the snowmobile to ascertain that the throttle cable is properly operational. If not, turn off the machine by pushing the engine cut-out switch, pulling the tether cord cap or by turning off the ignition. Correct the problem before the snowmobile is operated. Be prepared to immediately respond should a throttle malfunction occur.
- ▲ 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. Make sure he is dressed properly for the weather with no long scarves or loose fitting apparel that could get caught in moving parts. Make sure his feet are on the running boards and that he maintains a firm grab of the passenger strap or grips.

- ▲ 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 safety features built in. Such features include various guards and consoles, plus reflective materials and warning labels.
- ▲ 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 waters accumulate and freeze 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" your snowmobile. This should be left to professional stunt men. Don't show off. Be responsible.
- △ Stay sober. Safe riders don't ride under the influence of alcohol or drugs. Drinking and driving demonstrates a most irresponsible attitude not only to others but to yourself. Legislators and the population in general don't tolerate it for good reason and BRP doesn't either!
- △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 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.
- ▲ Excessive speeding can be fatal. In many cases, you cannot react or respond quickly enough to the unexpected. Ride at a speed which is suitable to the trail and weather conditions. If a maximum speed is posted, observe it.

- ▲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.
- ⚠ 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.
- ∆While on safari, do not "gun" the throttle. Snow and ice can be thrown back into the path of a following snowmobile. In addition, when "gunning" the throttle, the vehicle digs into and leaves an irregular snow surface for others.
- △ Safaris are both fun and enjoyable but don't show off or overtake others in the group. A less experienced operator might try to do the same as you and fail. When riding with others, limit your abilities to the experience of others.
- ▲ Always cover your snowmobile when leaving it overnight or during extended periods of inactivity. This will protect it from freezing as well as retain its appearance.
- ⚠ The guidelines that we support are not designed to limit your snowmobiling fun, but to preserve the beautiful freedom that you can experience only on a snowmobile! These guidelines will keep snowmobilers healthy, happy and able to introduce others to what they know and enjoy about their favorite winter pastime. So, the next time you hit the trails on a cool, crisp and clear winter day, we ask you to remember that you are paving the way for the future of our sport. Help us lead it down the right path! From all of us at BRP, thank you for doing your share.

PASSENGER SAFETY BASICS

- ⚠ Never ride as a passenger unless the snowmobile is equipped with a passenger seat, and sit only on the designated passenger seat.
- ▲Always wear an DOT approved helmet, and follow the same dressing guidelines as those recommended for the driver as described above.
- ⚠ Make sure that you are able to achieve a stable stance, both feet resting positively on the footboards of footrests with good grip, and that you are able to hold on firmly to the handholds.
- ♠Once underway, if you feel uncomfortable or unsecure for any reason, don't wait, tell the driver to slow-down or stop.

ENVIRONMENT

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 insure 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

FREQUENTLY ASKED QUESTIONS

- Q: Why must my snowmobile be registered at the factory? After all I do have my original invoice as proof of when I purchased my snowmobile.
 - A: Registration is very important and your SKI-DOO dealer must register your snowmobile with BRP. Make sure the registration form has been sent. All of this will allow you to:
 - a) have warranty work performed at any authorized SKI-DOO dealer in North America. Your registration form will provide the authorized SKI-DOO dealer with all the necessary data to complete warranty claim forms.
 - b) be advised by BRP should there be a safety recall or particular warranty campaign.
 - c) be contacted much faster by the police, the minute they find your stolen snowmobile (if such a case occurs).

Q: Why must my snowmobile be registered with the governing body having jurisdiction over snowmobile use?

A: Snowmobile registration has two purposes: In many provinces or states it is mandatory to register a snowmobile in the same way as for a car. It allows the state or province to maintain records of existing snowmobiles and governmental agencies use part of the registration fees for establishing and maintaining trails.

Q: Where can I find information on the lubrication and maintenance of my snowmobile?

A: In the Operator's Guide provided with the snowmobile at the time of delivery.

Q: Will the entire warranty be voided or cancelled, if I do not operate or maintain my new snowmobile exactly as specified in the *Operator's Guide*?

A: The warranty of the new snowmobile cannot be "Voided" or "Cancelled" if pre-delivered by an authorized SKI-DOO dealer. However, if a particular failure is caused by inappropriate operation or maintenance instructions in the Operator's Guide are not followed and, THAT failure may not be covered under warranty. This includes service work performed by the customer, especially the critical adjustments: ignition timing, carburetion and oil injection/or oil mixture.

Q: Would you give some examples of abnormal use or strain, neglect or abuse which may affect warranty?

A: These terms are general and overlap each other in areas. Some specific examples may include: running the snowmobile out of oil, chain failure caused by a lack of lubrication, operating the snowmobile with a broken or damaged part which causes another part to fail, and so on. If you have any specific questions on operation or maintenance, please contact an authorized SKI-DOO dealer for advice.

Q: What costs are my responsibility during the warranty period?

A: The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accidents and collision damage, as well as oils, and spark plugs, and incidental or consequential damages costs as explained in the warranty.

Q: Are "Genuine" BRP replacement parts used in warranty repairs covered by warranty?

A: Yes. When installed by an authorized SKI-DOO dealer, any "Genuine" BRP part used in warranty repairs assumes the remaining warranty that exists on the snowmobile.

Q: If I sell my snowmobile within the warranty period, will the new owner qualify for the balance of the warranty?

A: Yes, provided the resale has been registered with the manufacturer.

O: How can I receive the best owner assistance?

A: The satisfaction and goodwill of the owners of BRP products are of primary concern to your authorized SKI-DOO dealer and BRP. Normally, any problems that arise in connection with the sales transaction or the operation of your snowmobile will be handled by your authorized SKI-DOO Dealers Sales or Service Departments. It is recognized, however, that despite the best intentions of everyone concerned, misunderstandings will sometimes occur. Frequently, complaints are the result of a breakdown in communications and can quickly be resolved by a member of the authorized SKI-DOO dealership management. If the problem already has been reviewed with the Sales Manager or Service Manager, contact the General Manager or the owner of this authorized SKI-DOO dealership.

We are always pleased to receive your comments on the Ski-Doo snowmobile.

AUTHORIZED SKI-DOO DEALERS

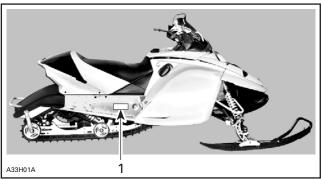
For Canada and USA Only

To find the nearest authorized SKI-DOO dealer, dial: 1 800 375-4366 or visit our web site at WWW.SKIDOO.COM.

HOW TO IDENTIFY YOUR SNOWMOBILE

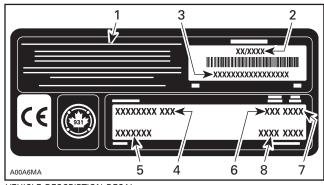
Vehicle Description Decal

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



TYPICAL

1. Vehicle description decal



VEHICLE DESCRIPTION DECAL

- 1. Manufacturer name
- 2. Manufacturing date
- 3. Vehicle identification number (VIN)
- 4. Model name
- 5. Option package
- Engine type
 Model year
- 8. Color codes

Serial Numbers

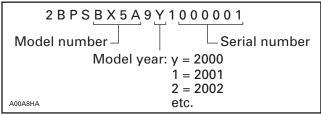
The main components of your snowmobile (engine and frame) are identified by different serial numbers. It may sometimes become necessary to locate these numbers for warranty purposes or to trace your snowmobile in the event of loss. These numbers are required by the authorized SKI-DOO dealer to complete 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.

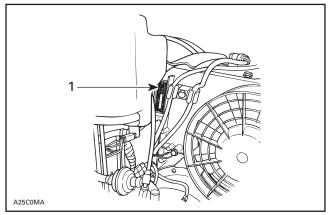
Model Number Location

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

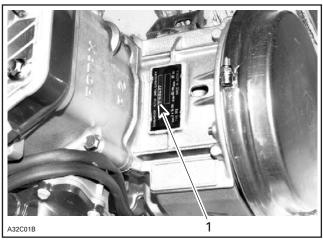


VIN DESCRIPTION

Engine Serial Number Location

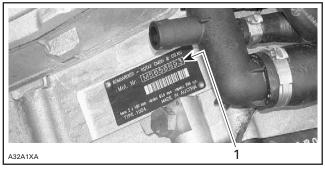


FAN-COOLED MODELS
1. Engine serial number



2-STROKE LIQUID COOLED MODELS

1. Engine serial number

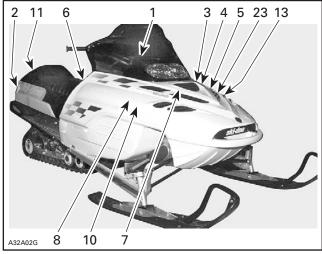


4-TEC MODELS — RH OF ENGINE
1. Engine serial number

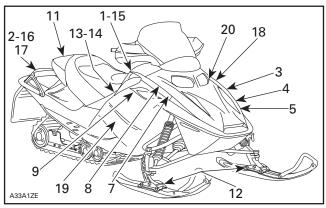
ON-VEHICLE IMPORTANT INSTRUCTIONS

The following instructions are on your snowmobile. 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 — ZX SERIES



TYPICAL — LOCATION OF IMPORTANT INSTRUCTIONS — REV SERIES

Lisez et respecı
Le fait de passe
Avant de dém
Avant de dém
Les gardes
Les gardes
Après démaras,
Avant d'utiliser
Conduisez p'
ou poignées q

WARNING

Sefore starting engine, check: •If throttle lever returns to its initial position when released. •All guards are in place. Severe injury or death can result from ignoring warnings or through improper use of snowmobile. After starting, check proper operation of: •Engine emergency cut-off switch and a≣ controls. Read and follow all warning labels & operator's guide/safety handbook before operation. The hood is closed and the clutch access door is installed. Parking brake is applied.

Drive carefully. This vehicle is designed for operator only, unless an extra seat station with a single or

3efore operating the vehicle: •Make sure parking brake is fully disengaged.

louble handgrip is installed for a passenger.

AVERTISSEMENT

•Le fait de passer outre aux avertissements ou d'utiliser la motoneige de façon inadéquate peut entraîner de graves blessures ou la mort. •Les gardes soient en place. •Le capot soit fermé et le panneau d'accès de la poulie soit installé. •Le frein de stationnement soit appliqué Lisez et respectez tous les avertissements contenus dans le guide du conducteur/guide de sécurité, avant toute mise en marche. Après démarrage, s'assurer que : ∙L'interrupteur d'arrêt d'urgence du moteur et tous les contrôles fonctionnent normalement. Avant de démarrer le moteur, s'assurer que: ∙La manette d'accélérateur revienne à sa position initiale lorsque relâchée.

Conduisez prudemment. • Ce véhicule est conçu pour un conducteur seulement, à moins qu'une 2ième place avec courroie

Avant d'utiliser le véhicule : •S assurer que le frein de stationnement soit complètement relâché

ou poignées de retenue ne soient installées pour accommoder un passager.

516 002 074

A32A1YA

A WARNING

BEFORE STARTING:

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

AFTER STARTING:

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

A AVERTISSEMENT

AVANT DE DÉMARRER:

- 1. Attachez le cordon coupe-circuit à votre vêtement.
- 2. 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.
- 4. Tourner le quidon au maximum de chaque côté pour vérifier les interférences et le libre fonctionnement.

APRÈS LE DÉMARRAGE :

- 1. Déconnectez le cordon coupe-circuit
- pour vérifier qu'il arrête le moteur.
- 2. 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. 516 002642

A33A2CA

REV SERIES

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 250Kg / 562 lbs Max. VERTICAL LOAD 10Kg / 23 lbs Max.

AWARNING

A33A2DA

EXPEDITION FAN 550

AWARNING

Do not exceed the following loads:

DRAWBAR 2500N/562 lbf Max.

VERTICAL LOAD 100N/23 lbf Max.

A AVERTISSEMENT

Ne pas excéder les charges maximales: Effort de traction 2500 N/562 lbf Max. Charge verticale 100N/23 lbf Max.

A33A2EA

FUROPEAN 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.

516 001 191

A01A2EA

ALL MODELS

MARNING

This guard must always be in place when engine is running.

AVERTISSEMENT

Ce garde-courroie doit toujours être en place lorsque le moteur fonctionne.

516 001 190

A01A2FA

4-TEC MODELS

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

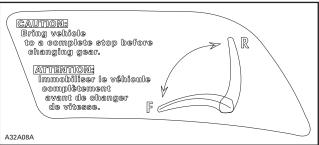
A33A2FA

REV SERIES



TYPICAL — ALL FAN-COOLED MODELS

Instruction 6



4-TEC MODELS

A WARNING

Certain components in the engine compartment may be very hot. Direct contact may result in skin burn.

A AVERTISSEMENT

Certaines composantes dans l'habitacle du moteur peuvent être très chaudes. Le contact direct sur la peau peut causer des brûlures.

516 001 297

A32A1GA

4-TEC MODELS

A WARNING

Beware of HOT parts!

A AVERTISSEMENT

Attention aux pièces CHAUDES!

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A33A2GA

REV SERIES



LIQUID-COOLED MODELS

Instruction 9

CAUTION

Use XP-S™ 2-Stroke Synthetic blend or XP S™ Synthetic 2 Stroke oil

XP-S™ Synthetic 2-Stroke oil.

ATTENTION

Utilisez de l'huile
semi-synthétique 2-temps XP-S₁₀₀
ou synthétique 2-temps XP-S₂₀₀.

516 002 325A

2-TEC MODELS

CAUTION

Checking Engine Oil Level

- Make sure engine is at operating temperature.
- Snowmobile must be on a level surface.
 Let engine running at idle for at least 30 seconds.
- Stop engine & wipe the dipstick.
- Stop engine & wipe the dipstic - Dipstick must be screwed in
- completely before checking oil level.
- Use BOMBARDIER synthetic oil 0W40.

ATTENTION

Vérification du niveau d'huile moteur

- S'assurer que le moteur est à la température normale d'opération.
- La motoneige doit être de niveau.
- Laisser tourner le moteur au ralenti 30 secondes minimum.
- Arrêter le moteur et nettoyer la jauge de niveau d'huile
- Visser la jauge complètement avant de mesurer le niveau d'huile.
- niveau d'nuile. - Utiliser de l'huile synthétique **BOMBARDIER** 0W40.

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A32A1ZA

4-TEC MODELS

Instruction 11

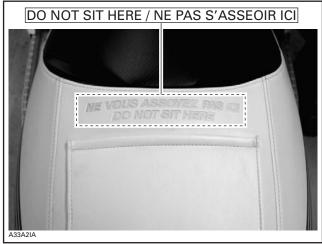


SINGLE SEAT ZX SERIES

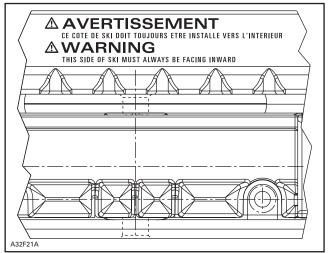


SOME MODELS — SINGLE SEAT REV SERIES

50 ______



SOME MODELS — SINGLE SEAT REV SERIES



SUMMIT MODELS

AWARNING

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.



DOIVENT LIRE CE QUI SUIT:
Évitez les surprises! SOYEZ AUX AGUETS

Evitez 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.

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A33A2JA

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.

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

A33A2KA

SOME MODELS - REV SERIES

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. Ride slowly.

- Excessive speed and reckless driving can kill!

 ALWAYS adjust your speed according to snow conditions and circumstances.
- Steering control and braking ability may be reduced on hard-pack snow, ice or roads. Reduce speed & allow more space to stop or turn.
 - Respect laws
 on minimum operator age.
 Manufacturer recommends
 a minimum operating age
 of 16 years old.

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

- 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

Le manufacturier recommande que le conducteur soit âgé d'au moins 16 ans.

516 002 671

A33A2MA

REV SERIES

Instruction 16

A WARNING

- NEVER STAND BEHIND or near a rotating track.
 Only spin track at lowest possible speed whenever off the ground.

 Roken track or depice could be projected with
- 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

- 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

REV SERIES

A WARNING

NEVER SIT IN CARGO AREA.

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

MAXIMUM cargo load:

15.8 Kg /35 Lbs.

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 :

15,8 Kg / 35 Lbs.

516 002 666

A33A2OA

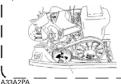
REV SERIES

Instruction 18

A 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 guide de l'opérateur pour connaître la méthode d'utilisation adéquate.





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REV SERIES

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.

A WARNING

Capacitor May Spark If Shorted.

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



A33A20A

REV SDI MANUAL START MODELS

Instruction 20

FMISSION CONTROL INFORMATION

THIS ENGINE IS CERTIFIED TO OPERATE ON LINI FADED GASOLINE AND CONFORMS TO XXXX

U.S. EPA REGULATIONS FOR SNOWMOBILE SI ENGINES.

ENGINE FAMILY: XXXXXXXXXX

FEL: XXg/kW-hr HC+NO_x XXXg/kW-hr CO

ENGINE DISPLACEMENT: XXXX cc

EXHAUST EMISSION CONTROL SYSTEM: XXX

TUNE-UP SPECIFICATIONS

IDLE SPEED: XXXX RPM ± XXX

SPARK PLUG TYPE: XXXXXXXXXXX

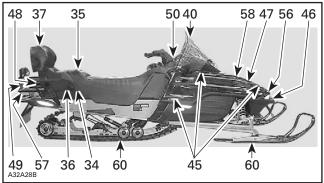
SPARK PLUG GAP: XXXX in/XXXX mm

A00A8RA

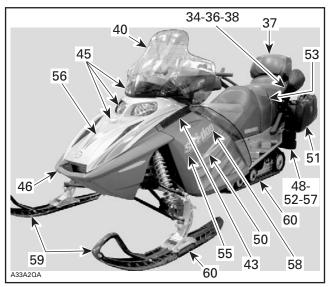
TYPICAL

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.

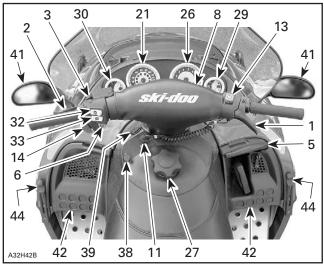


TYPICAL — ZX SERIES

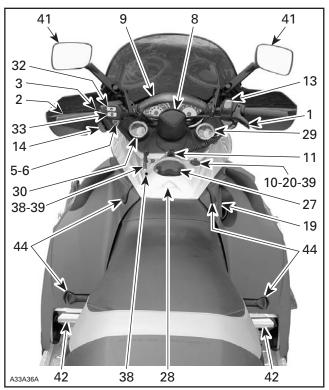


TYPICAL — REV SERIES

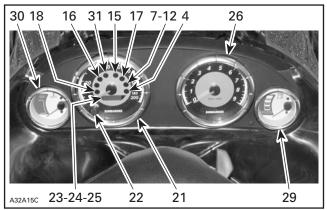
58 ______



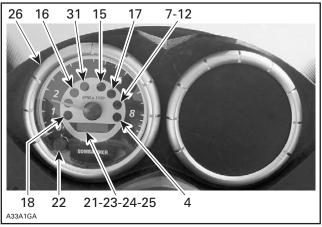
TYPICAL — ZX SERIES



TYPICAL — REV SERIES



TYPICAL



 $TYPICAL - SUMMIT ADRENALINE^{TM}/X$

1) Throttle Lever

Located on the right hand side of handlebar and 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.

2) Brake Lever

Located on the left hand side of handlebar. 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.

3) Parking Brake Lever

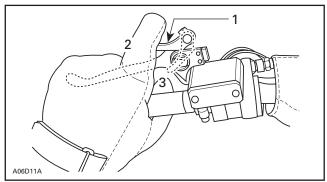
Located on left hand side of handlebar. Parking brake should be used whenever snowmobile is parked.

Whenever parking brake is applied and engine is running, injection oil level/parking brake pilot lamp lights up to remind you that it is engaged.

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.

To release mechanism, squeeze brake lever. Locking lever will automatically return to its original position. Always release parking brake before riding.

NOTE: On some models, locking lever can be adjusted in two different positions.



TYPICAL

- 1. Locking lever
- 2. OFF
- 3 ON

4) Brake/Parking Brake Pilot Lamp (Red)

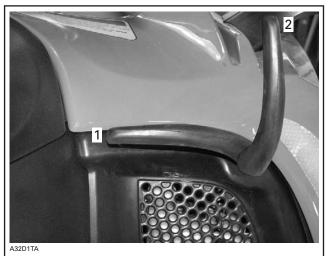
Lights when brake or parking brake is applied (with engine running).

This pilot lamp also lights up when injection oil level is low (with engine running). Check oil level and replenish as soon as possible.

5) Gear Shift Lever

ZX Series

These models are equipped with a mechanical reverse controlled by a 2-position gear shift lever.



- 1. Forward
- 2 Reverse

Shifting Procedure

⚠ WARNING

The reverse speed of these snowmobiles is not limited. Always proceed with caution as fast reverse could result in loss of vehicle stability and control. Come to complete stop before selecting reverse gear. Wait until the reverse alarm sounds before operating throttle to proceed in reverse. Always remain seated and apply the brake before shifting. Ensure the path behind is clear of obstacles or bystanders before proceeding.

With snowmobile completely stopped and engine at idle, move lever to engage in desired gear.

Do not force lever. If unable to shift, apply throttle to move snow-mobile, stop vehicle then, try again.

6) START/RER Button

General

The START/RER button has two functions

All Liquid Cooled Models

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

REV Series

When the engine is running, depressing the START/RER button will command the engine to reverse crankshaft rotation as driving the snowmobile in reverse is achieved by changing the direction of rotation of the engine, not by shifting the chaincase in reverse gear.

When depressing the START/RER button, the electronic module will practically slow down the engine RPM to a stop and advance the ignition timing to cause crankshaft rotation reversing.

Engine will automatically shift into forward when 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

All Liquid Cooled Models

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 (if so equipped).

REV Series

⚠ 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 DESSTM/RERTM 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

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

General

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

Operation

Non-DPM™ Liquid-Cooled Models

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.

DPM/DPM-Power TEK/SDI 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.

7) Reverse Pilot Lamp

This pilot lamp will light up when reverse is selected.

8) Handlebar

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

⚠ WARNING

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

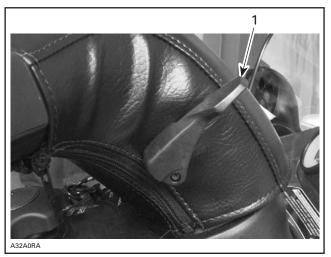
Handlebar height is adjustable. See an authorized SKI-DOO dealer.

Some Models

Handlebar angle can be adjusted to suit driver's preference. Lift lever, tilt handlebar to desired position then release lever.

⚠ WARNING

Adjust with vehicle at rest in a safe place. Securely tighten all adjustments.



1. Lever

68 _____

Some REV Series Models

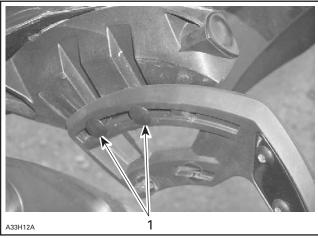
Steering Column Position Adjustment

Steering column position is adjustable. Proceed as follows.

There are 2 positions.

NOTE: Following procedure describes how to change steering column position from rearward to forward position.

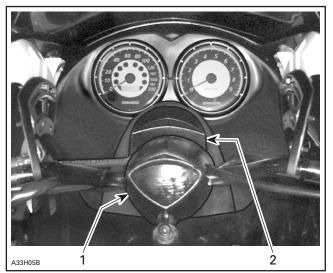
Unscrew 4 bolts retaining windshield assembly to handlebar. Remove windshield assembly.



ONE SIDE SHOWN — REARWARD POSITION

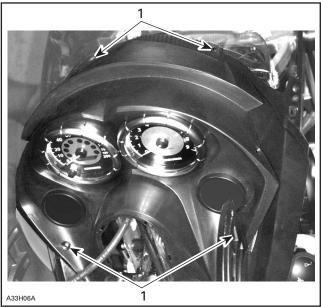
1. Bolts retaining windshield assembly

Remove steering cover and console cap.



- Steering cover
 Console cap

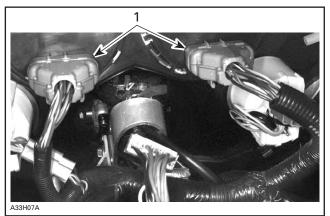
Unscrew 4 bolts retaining console.



1. Bolts retaining console

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Slightly lift console to gain access to electrical connector housings. Unplug the 2 large connector housings and the separate 3 wire connector.

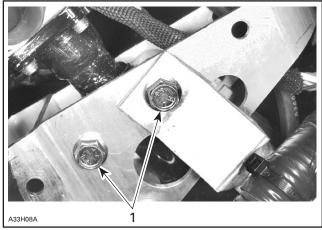


TYPICAL

1. Large connector housings

Remove console.

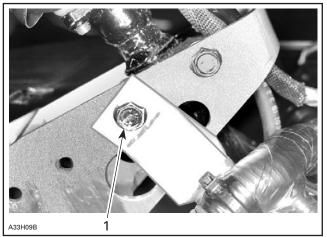
Remove 2 bolts retaining top of steering column.



STEERING COLUMN IN REARWARD POSITION

1. Two bolts retaining top of steering column

Move steering column to forward position.



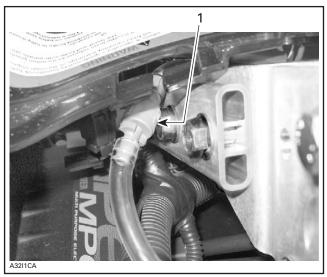
STEERING COLUMN IN FORWARD POSITION

1. Longer bolt

Reinstall the 2 bolts. Always install the longer bolt on thicker portion to be bolted. Use new lock nuts. Torque nuts to 24 N•m (18 lbf•ft).

NOTE: Should rearward position be selected, it is mandatory, while changing column position, to relocate fuel tank vent hose as per following procedure.

Locate blue check valve.



1. Check valve

Disconnect fuel tank vent hose from blue check valve.

Reroute fuel tank vent hose under upper cross member.



ROUTING WITH FORWARD POSITION STEERING COLUMN



ROUTING WITH REARWARD POSITION STEERING COLUMN

Reconnect fuel tank vent hose to blue check valve.

Reconnect the electrical connectors and reinstall all removed parts.

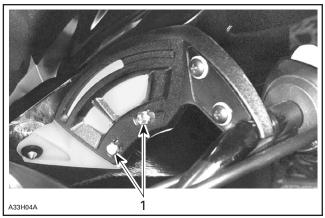
Position of console cap will be inverted. Instead of being above it will be beneath steering column.



CONSOLE CAP INSTALLED BENEATH STEERING COLUMN

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Reinstall windshield assembly to handlebar. Refer to WINDSHIELD ADJUSTMENT below.



ONE SIDE SHOWN — FORWARD POSITION

1. Bolts retaining windshield assembly

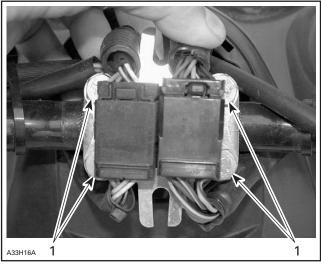
Readjust throttle lever housing and brake lever housing accordingly to optimal angle so that you will not need to release your grip to operate levers.

⚠ WARNING

Adjust with vehicle at rest in a safe place. Securely retighten all fasteners. Never rotate throttle lever to operate with fingers instead of thumb.

Handlebar Position Adjustment

The handlebar position can be adjusted to suit driver's preferences. Loosen all 4 bolts retaining handlebar to steering column.



1. Four bolts

Move handlebar to the desired position. Torque all 4 bolts to 24 N •m (18 lbf•ft).

Readjust windshield for proper fit with console. Refer to WIND-SHIELD ADJUSTMENT below.

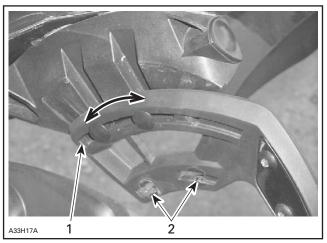
Windshield Adjustment

The windshield can be adjusted to properly fit with console.

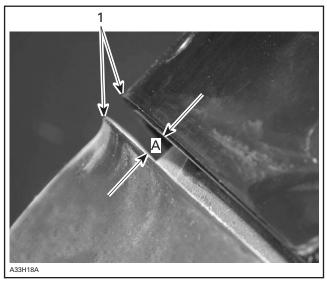
Before adjusting windshield, make sure it is installed on the proper bracket slots according to steering column position. See above photos.

Slots in brackets allow different windshield positions. Move windshield to fit with console. Retighten 4 nuts to 5 N•m (44 lbf•in).

Check that windshield does not touch console after adjustment.



- 1. Slot when windshield is installed for rearward steering column position
- 2. Slots when windshield is installed for forward steering column position



PROPER FIT OF WINDSHIELD VERSUS CONSOLE

1. In line

A. 8 to 12 mm (3/8 to 1/2 in)

9) Holding Strap

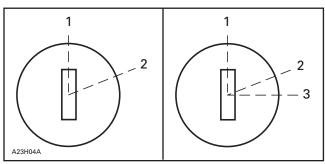
Holding strap provides a grip for driver when side-hilling.

⚠ 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.

10) 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 grip. To stop the engine, turn the key to OFF position.

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.

11) Tether Cut-Out Switch

All Models

General

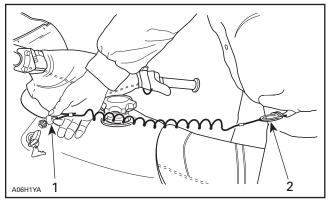
It shuts off engine preventing snowmobile to runaway if the operator falls off the vehicle accidently.

⚠ WARNING

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

Operation

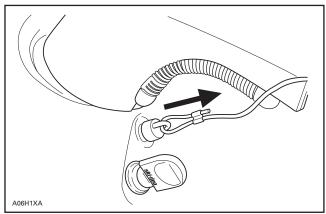
Attach to clothing eyelet then snap tether cord cap over post before starting engine.



TYPICAL

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

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



TYPICAL

Liquid-Cooled Models

On these models tether cut-out switch is part of tether cut-out system. This system serves 3 functions.

It shuts off engine preventing snowmobile to runaway if the operator falls off the vehicle accidently.

Through the DESSTM (Digitally Encoded Security System), it acts as a lock by preventing unauthorized use of your snowmobile thus deterring theft

Finally, it prevents unintentional electric starter operation on vehicles so equipped by disabling the electric starter and ignition circuits in the MPEM or ECU.

⚠ 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.

DESS (Digitally Encoded Security System) Description

This system is digitally encoded to provide you and your snowmobile with the equivalent security as a conventional lock key.

The tether cord cap provided with your snowmobile contains an electronic chip in which a unique digital code is permanently memorized. Your authorized SKI-DOO dealer programs this key code in the MPEM (Multi-Purpose Electronic Module) or ECU (Electronic Control Unit) of your snowmobile to allow engine operation above 3000 RPM if and only if this unique code has been read after engine starting.

If a tether cord cap with different code is installed, the engine will start but cannot reach drive pulley engagement speed to move vehicle.

Operation

See above for details.

Additional Tether Cord Caps

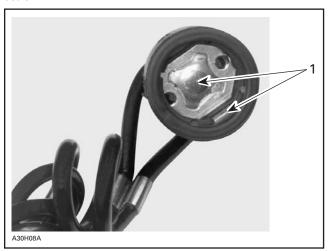
The MPEM of your snowmobile can be programmed by your authorized SKI-DOO dealer to accept 8 different key codes (tether cord caps).

We recommend the purchase of additional caps from your authorized SKI-DOO dealer as additional keys. 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

DESS pilot lamp blinking slowly (one time per 1.5 seconds) means that a bad connection has been detected. Vehicle can not be driven.

To check for bad connection, remove tether cord cap. Make sure the tether cord cap is free of dirt or snow. Reinstall cap and restart engine. If a blink per 1.5 seconds still occurs contact an authorized dealer.



1. Free of dirt or snow

A DESS pilot lamp blinking 3 times per second means that you have installed a cap with a code that MPEM of this snowmobile was not programmed to recognize (wrong key). Vehicle can not be driven.

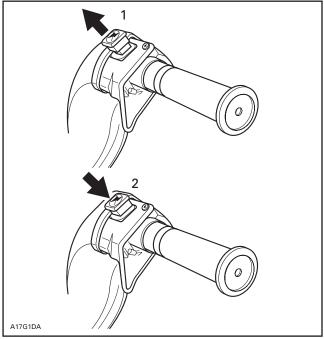
12) DESS Pilot Lamp

This lamp will light up to confirm DESS status. Refer to previous paragraphs for description.

13) Engine Cut-Out Switch

All Models

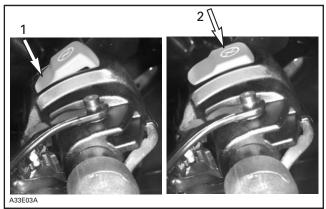
This push-pull type or toggle type switch (depending on models) is located on the right hand side of the handlebar. To stop the engine in an emergency, select OFF position and simultaneously apply the brake. To restart, button must be at the ON position.



TYPICAL — SOME MODELS

1. ON

2. OFF



TYPICAL — SOME MODELS

1. 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.

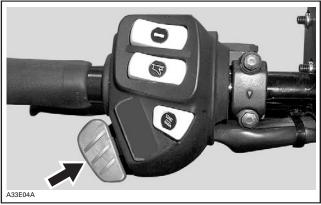
⚠ WARNING

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.

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14) Headlamp Dimmer Switch

Located on left hand side of handlebar, allows selection of headlamp beam. Note that lights are automatically ON whenever the engine is running.



TYPICAL

15) High Beam Pilot Lamp (Blue)

Lights when headlamp is on HIGH beam.

16) Oil Pilot Lamp

2-Stroke Models

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

4-Stroke Models

This pilot lamp will glow up when engine oil pressure is too low. Stop vehicle in a safe place then, check oil level and replenish as described in FLUID LEVEL.

Restart engine, oil pilot lamp must turn off after few seconds. If oil pilot lamp still glows up, stop engine and have lubrication system inspected by an authorized SKI-DOO dealer.

17) Low Battery Voltage Pilot Lamp

This lamp will light up to indicate a low battery voltage condition. See an authorized SKI-DOO dealer as soon as possible.

18) Engine Management System (EMS) Pilot Lamp

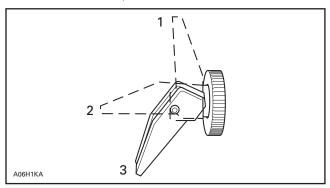
This lamp will light up to indicate a trouble. Refer to TROU-BLESHOOTING for trouble code meaning and remedy.

19) 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.

20) Choke Lever

This device features a 3-position lever to facilitate 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.

21) Speedometer

All Models except Summit ADRENALINE/X

These models are equipped with an electronic speedometer. It may show speed in km/h or MPH.

NOTE: At vehicle speed of 90 km/h (55 MPH) and more the mode LCD screen will show speed only instead of the selected mode.

Change from One Unit to the Other

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

Stop engine and open engine compartment. Cut locking ties. Plug connectors together to change units from miles to kilometers.

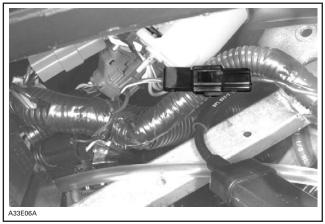
Unplug to return to miles reading. Fasten connector to harness with locking ties.



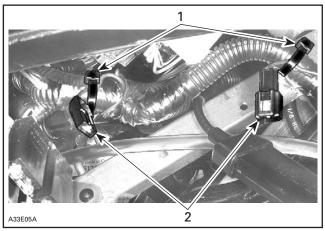
ZX SERIES — KILOMETERS READING — CONNECTORS PLUGGED



ZX SERIES — MILES READING — CONNECTORS UNPLUGGED



REV SERIES — KILOMETERS READING — CONNECTORS PLUGGED



REV SERIES — MILES READING — CONNECTORS UNPLUGGED

Locking ties
 Connectors

Summit ADRENALINE/X

These models are equipped with a tachometer that includes a LCD screen on which speed is shown in km/h or MPH.

NOTE: As soon as the vehicle is moving, the LCD screen will show speed only instead of the selected mode.

Change from One Unit to the Other

NOTE: Speedometer, odometer and trip meter will have their units (kilometer or miles) changed all together. Refer to above procedure described for all other models to change unit.

22) Mode Button

All Models

Depress mode button to change 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.

23) Odometer

Odometer records the total distance travelled and displays it either in miles or kilometers. Refer to SPEEDOMETER for changing units.

All Models except Summit ADRENALINE/X

NOTE: At vehicle speed of 90 km/h (55 MPH) and more the mode LCD screen will show speed only instead of the selected mode.

Summit ADRENALINE/X

NOTE: As soon as the vehicle is moving, the LCD screen will show speed only instead of the selected mode.

24) Trip Meter

Records distance travelled since it has been reset. Distance travelled is displayed either in miles or kilometers. Refer to SPEEDOME-TER for changing units.

All Models except Summit ADRENALINE/X

NOTE: At vehicle speed of 90 km/h (55 MPH) and more the mode LCD screen will show speed only instead of the selected mode.

Summit ADRENALINE/X

NOTE: As soon as the vehicle is moving, the LCD screen will show speed only instead of the selected mode.

25) Resetable Hourmeter

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

All Models except Summit ADRENALINE/X

NOTE: At vehicle speed of 90 km/h (55 MPH) and more the mode LCD screen will show speed only instead of the selected mode.

Summit ADRENALINE/X

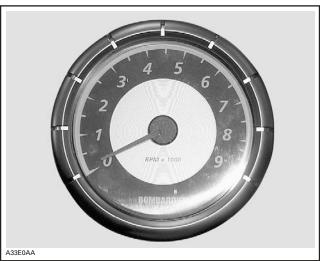
NOTE: As soon as the vehicle is moving, the LCD screen will show speed only instead of the selected mode.

All Models

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

26) Tachometer

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



MULTIPLY THE READING BY 1000

27) Fuel Tank Cap/Gauge

Unscrew to fill up tank then fully tighten.

⚠ WARNING

Always stop the engine before refueling. Fuel is inflammable 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.

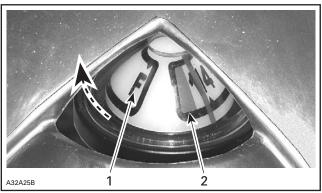
96 ______

Some ZX Series Models

Fuel tank cap features a mechanical gauge.

28) Mechanical Fuel Level Gauge

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



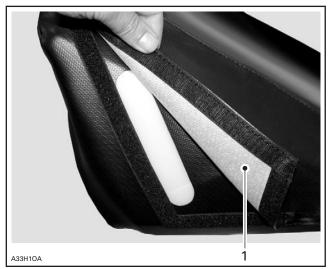
TYPICAL

1. Full 2. Empty

NEEDLE POSITION OF FUEL LEVEL GAUGE	APPROXIMATE REMAINING FUEL QUANTITY L (U.S. GALLON)
1/4	15 (4)
1/2	21 (5.5)
3/4	30 (8)
F	36 (9.5)

Summit ADRENALINE/X

Open fabric door to see the fuel level through the transparent fuel tank.

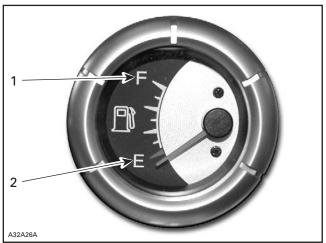


1. Fabric door

98 ______

29) Electric Fuel Level Gauge

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

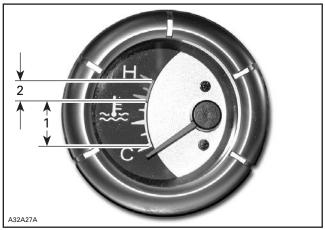


TYPICAL

- 1. Full 2. Empty

30) Temperature Gauge

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

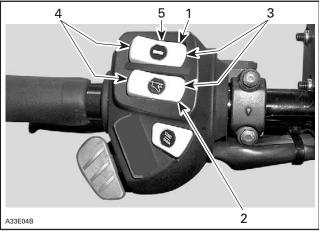
Normal
 Overheat

31) Engine Overheat Warning Lamp (Red)

If this lamp glows, reduce snowmobile speed and run snowmobile in loose snow or stop engine immediately.

32) Heating Grip Switch

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



TYPICAL

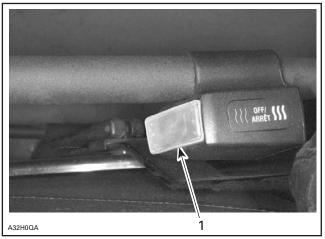
- 1. Heating grip switch
- 2. Heating throttle lever switch
- 3. Hot
- 4. Warm
- 5. Off

33) Heating Throttle Lever Switch

Three-position switch. Select the desired position to keep your right thumb at a comfortable temperature. See illustrations above.

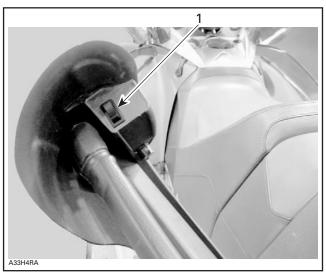
34) Rear Passenger Heating Grip Switch

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



ZX SERIES— RIGHT SIDE OF PASSENGER GRAB HANDLE

1. Rear passenger heating grab handles switch



REV SERIES — LEFT SIDE OF PASSENGER GRAB HANDLE
1. Rear passenger heating grab handles switch

102 ______

35) Seat Strap

Seat strap provides a grip for the passenger.

36) Rear Grab Handles

Rear grab handles provides a grip for the passenger.

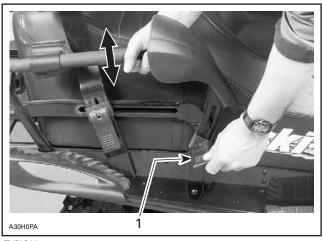
ZX Series — Some Models

Height of rear grab handles can be adjusted.

Lift adjustment lock, move grab handle to desired position. Secure adjustment lock. Proceed the same with the other side.

⚠ WARNING

Adjust with vehicle at rest in a safe place. Securely tighten all adjustments.



TYPICAL

1. Lift adjustment lock

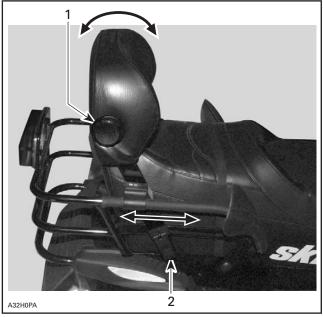
37) Adjustable Backrest

The backrest position and support angle may be adjusted to suit driver or passenger convenience.

⚠ WARNING

Adjust with vehicle at rest in a safe place. Securely tighten all adjustments.

ZX Series — Some Models

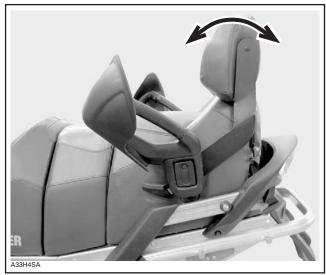


- 1. Turn adjustment knob
- 2. Lift adjustment lock (both sides)

Secure adjustment locks after desired position is obtained.

104 ______

REV Series — Some Models



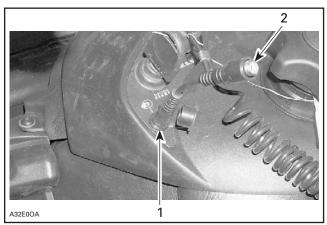
PULL ADJUSTMENT HANDLE TO ADJUST BACKREST POSITION

Pull and hold adjustment handle until desired position is obtained. Release lever to secure backrest in place.

38) Electric Visor Jack Connector

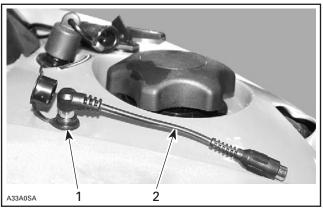
An electric visor can be connected to the jack connector. Electric current is supplied whenever engine is running. A stress relief extension is supplied with the vehicle. It is included in the predelivery kit. Ask your authorized SKI-DOO dealer for the extension.

Driver



TYPICAL — ZX SERIES

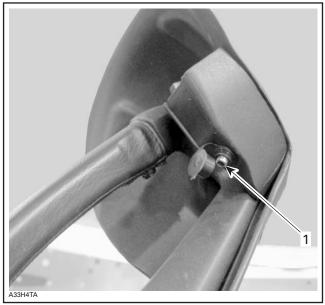
- 1. Electric visor jack connector
- 2. Stress relief extension



- TYPICAL REV SERIES

 1. Electric visor jack connector
 2. Stress relief extension

Passenger



REV SERIES — SOME MODELS

1. Electric visor jack connector

39) 12-Volt Power Outlet

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.



40) Windshield

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

41) Adjustable Mirrors

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

↑ WARNING

Adjust with vehicle at rest in a safe place.

42) Adjustable Toeholds

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

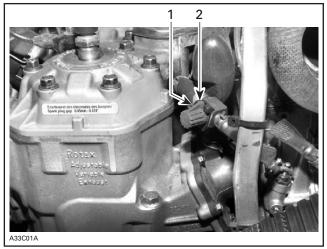
↑ WARNING

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

43) Heated Carburetor Valve

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 — REV SERIES

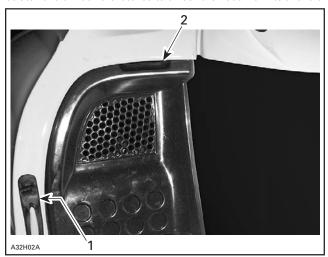
- 1. ON 2. OFF

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

44) Hood and Side Panel Latches

ZX Series

Stretch and unhook the latches to unlock the hood from its anchors.



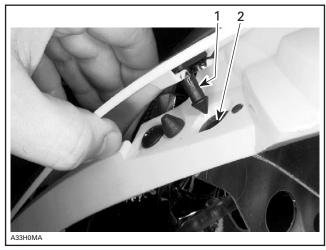
- 1. Latch
- 2. Recess provided to open hood

Always lift hood gently until stopped by retaining device.

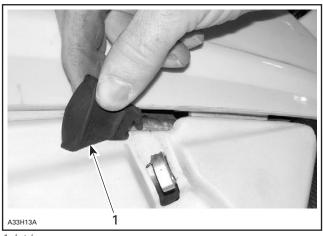
Close hood slowly then hook up latches.

REV Series

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

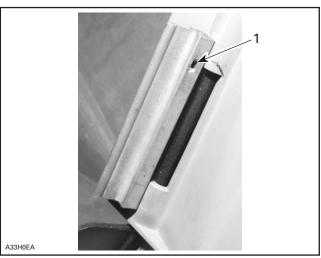


- Anchors
 Grommets
- To open a side panel, stretch and unhook the latches.



1. Latch

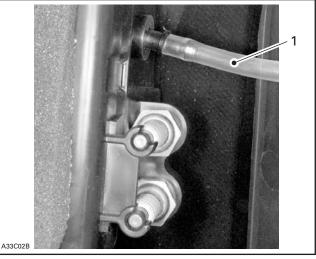
To remove a side panel remove by pulling up both locking devices from hinge.



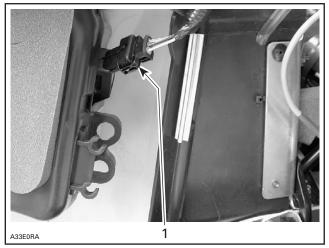
1. Locking device

112 _____

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



NON-2-TEC MODELS
1. Vent hose



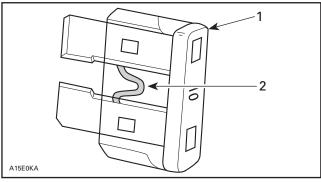
2-TEC MODELS

1. Sensor

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

45) Fuses

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



- 1. Fuse
- 2. Check if melted

114 _____

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

⚠ WARNING

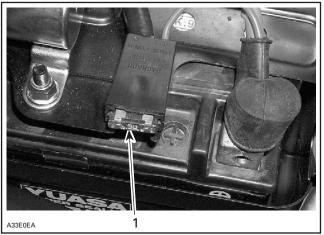
If fuse has burnt out, source of malfunction should be determined and corrected before restarting. See an authorized SKI-DOO dealer for servicing.

Ground Protection Fuse

Electric Start Fan-Cooled Models Only

Ground wire is protected with a 20 ampere rated fuse. See following illustration for fuse holder location. Check fuse condition and replace it if necessary.

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



TYPICAL

1. Ground wire protection fuse

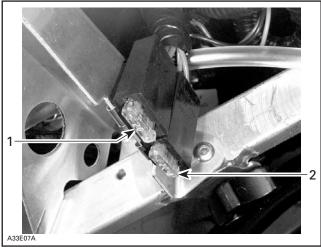
REV Series Models except 2-TEC

Accessories Fuse

Accessories are protected with 20 ampere rated fuse. See following illustration for fuse holder location. If any of the accessories stops functioning, check fuse condition and replace it if necessary.

Headlight Fuse

Headlight is protected with 20 ampere rated fuse. See following illustration for fuse holder location. If headlight does not light up, check fuse condition and replace it if necessary.



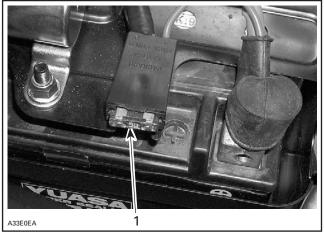
FUSE LOCATION — LEFT HAND SIDE OF ENGINE COMPARTMENT BEHIND HEADLIGHT

- 1. 20 A headlight fuse (RED/ORANGE wire)
- 2. 20 A accessories fuse (RED/YELLOW wire)

Electric-Start REV Series except 2-TEC Models

Charging System Fuse

Charging system is protected with 30 ampere rated fuse. See following illustration for fuse holder location. If charging system or starter does not operate, check fuse condition and replace it if necessary. **CAUTION:** This fuse should always be disconnected before doing any maintenance under the hood. This is to prevent any unexpected electrical activation.

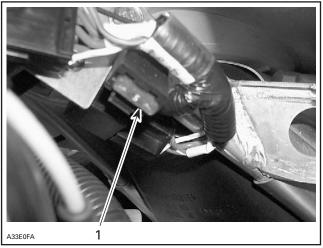


1. Charging system fuse

117

MPEM Fuse

MPEM is protected with 5 ampere rated fuse. See following illustration for fuse holder location. If no voltage is present at MPEM or starter does not operate, check fuse condition and replace it if necessary.



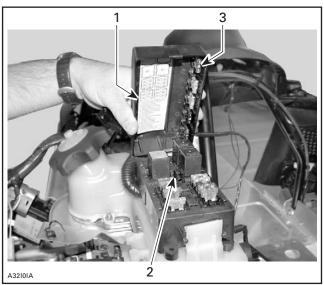
1. MPEM fuse

2-TEC and 4-TEC Models

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

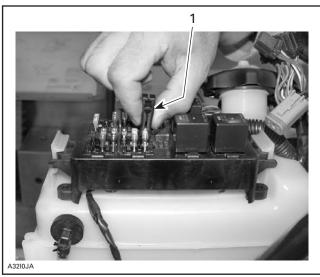


TYPICAL 1. Push tab



TYPICAL

- Fuse description decal
 Fuse remover/installer
 Spare fuses



1. Fuse remover/installer

Some Models

Electric Fuel Level Gauge Fuse

See an authorized SKI-DOO dealer for fuse replacement.

46) Front Grab Handle/Front Bumper

All Models except 4-TEC

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.



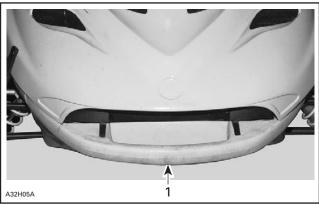
REV SERIES

1. Front grab handle

122 ______

All 4-TEC Models

To be used whenever snowmobile requires manual pulling.



1. Front grab handle

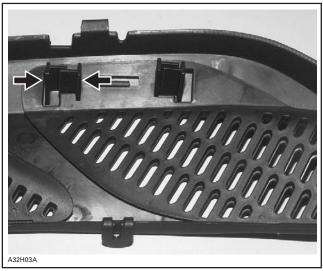
CAUTION: Do not lift snowmobile by the front bumper.

All Models

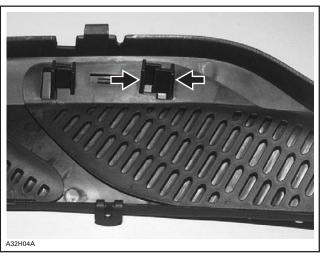
CAUTION: Do not use skis to pull or lift snowmobile.

47) Hood Grills

When riding on powdered snow, close plastic sliding hood grills from underneath hood. Otherwise always keep grills open. Squeeze tabs to close grills.



TO CLOSE, SQUEEZE CLOSING TABS BETWEEN THUMB AND INDEX



TO OPEN, SQUEEZE OPENING TABS BETWEEN THUMB AND INDEX

48) Storage Compartment

⚠ WARNING

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

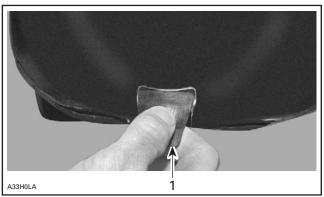
ZX Series and Some REV Series Models



1. Storage compartment cover

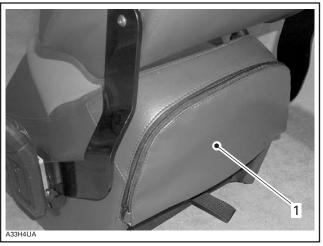
Some REV Series Models

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. Ride at very low speed when loaded. Avoid speed over bumps.

50) Tool Kit

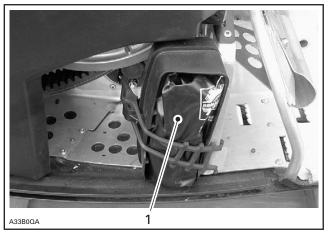
A tool kit containing tools for basic maintenance is supplied with the vehicle

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



ZX SERIES

1. Tool kit



REV SERIES

1. Tool kit

51) Suitcase

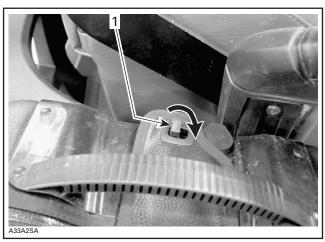
GTX Limited

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

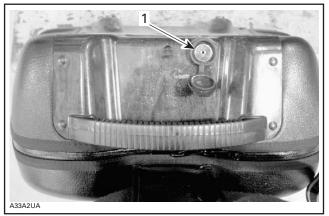
Unlock the suitcase from its support by turning the upper button 90° clockwise.

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.

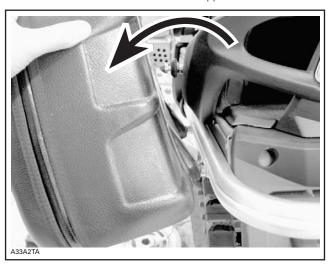


1. Upper button



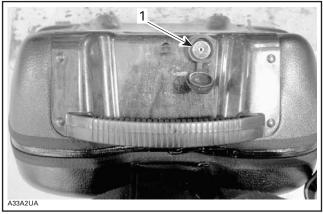
1. Locking device

Lift suitcase to release it from its lower support.



130 ______

Suitcases can also be locked using the safety locking device, this will also prevent the upper button to turn.



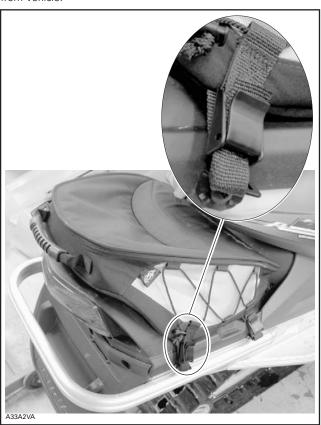
1. Locking device

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

52) Integrated Bag

GSX

Lift release lever from plastic buckles to unfasten integrated bag from vehicle.

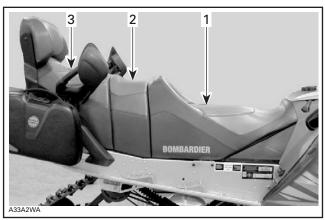


132 _____

53) 2 + 1 Seat

GTX Limited

The GTX Limited has 3 seats.



- 1. Driver seat
- 2. 2+1 seat
- 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.

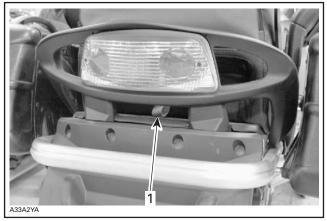
Transformation of the GTX Limited into a Snowmobile for 2 Occupants

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.

♠ 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.

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.



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

Remove 2 + 1 seat.



136 ______

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

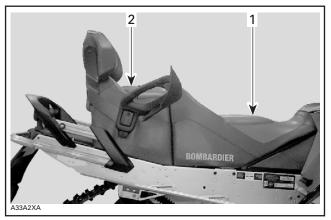
- NEVER use the hole left by removing the "2 + 1" seat to sit a passenger or put cargo. The passenger could hurt his back or suffer other serious injuries due to his seating position. Cargo placed in this hole would be unstable, could fall and potentially injure someone.
- A passenger sitting on the 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.

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.



- Driver seat
- 2. Passenger's seat

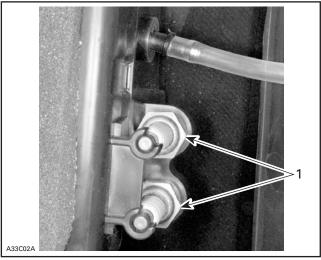
$oldsymbol{\triangle}$ WARNING

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

55) Spark Plug Holder

All Models except 4-TEC

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



REV SERIES — SPARK PLUG HOLDER ON LEFT HAND SIDE PANEL
1. Spare spark plugs installed in holder

NOTE: Spare spark plugs are not supplied with snowmobile.

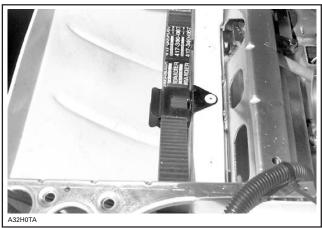
NOTE: Check spare spark plug gap according to SPECIFICATIONS before installation.

CAUTION: Do not attempt to adjust gap on spark plug BR9ECS.

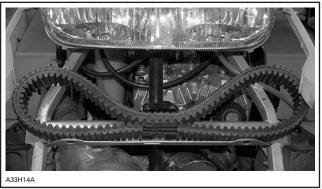
56) Spare Drive Belt Holder

A spare drive belt can be stored in holder.

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



ZX SERIES — SPARE DRIVE BELT INSTALLED IN HOLDER



REV SERIES — SPARE DRIVE BELT INSTALLED IN HOLDER

57) Hitch

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

140 ______

58) 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.

59) Convertible Ski Stance

Summit Models Only

Ski stance (distance between each skis) is adjustable. See an authorized SKI-DOO dealer.

60) Adjustable Suspensions

General

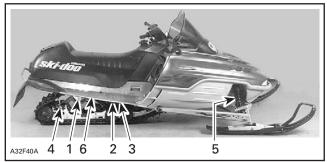
All Models

Snowmobile handling and comfort depend upon suspension adjustments.

For factory recommended adjustments refer to decal on belt guard. It describes settings for optimum comfort according to load for your SKI-DOO model.

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.



TYPICAL

- 1. Rear springs for comfort and ride height
- Center spring for steering behavior
- 3. Stopper strap for snowmobile weight transfer
- 4. Coupling blocks Handling
- 5. Front springs for handling
- 6. Rear shock motion ratio Damping strength

Guidelines to Adjust Suspension

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 DESS 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.

1. 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 photo.

↑ 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

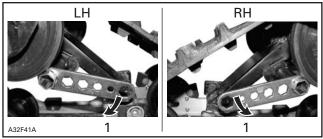
A. From fully extended, rear of suspension has collapsed by 50 to 75 mm (2 to 3 in)

144 ______



TYPICAL — TOO SOFT OF ADJUSTMENT (REAR SUSPENSION IS TOO LOW, IT HAS COLLAPSED MORE THAN 75 MM (3 IN)

CAUTION: To increase preload, always turn the left side adjustment cam in a clockwise direction, and the right side cam in a counterclockwise direction. Left and right adjustment cams may be at different settings.



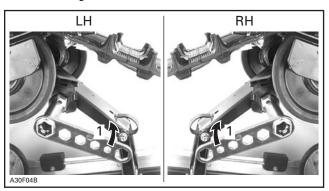
TYPICAL

1. Increase spring preload



TYPICAL — TOO HARD OF ADJUSTMENT (REAR SUSPENSION RUNS TOO HIGH, IT HAS COLLAPSED LESS THAN 50 MM (2 IN)

CAUTION: To decrease preload, always turn the left side adjustment cam in a counterclockwise direction, the right side cam in a clockwise direction. Left and right adjustment cams may be at different settings.



TYPICAL
1. Decrease spring preload

2. 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 DESS 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.



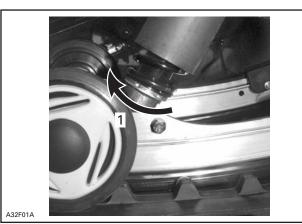
TYPICAL — GOOD ADJUSTMENT AT MODERATE SPEED

1. Handlebar easy to turn — neutral steering attitude



TYPICAL — TOO SOFT OF ADJUSTMENT

1. Handlebar harder to turn — oversteering attitude



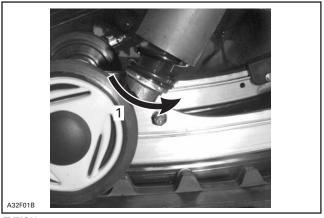
TYPICAL

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



TYPICAL — TOO HARD OF ADJUSTMENT — TOO MUCH PRELOAD

1. Handlebar is very easy to turn — understeering attitude



TYPICAL

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

3. Stopper Strap — Weight Transfer

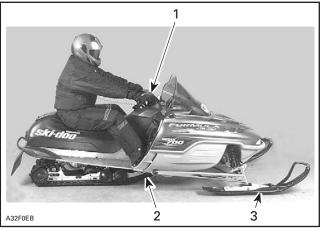
Ride at low speed then fully accelerate. Note steering behavior. Adjust stopper strap length accordingly.

⚠ WARNING

Before proceeding with any suspension adjustment, remember:

- park in a safe place
- remove DESS 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.



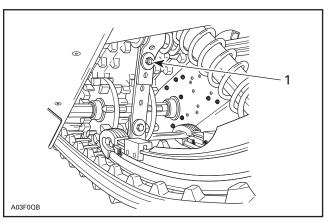
TYPICAL — GOOD ADJUSTMENT AT FULL ACCELERATION

- 1. Comfortable steering
- 2. Good weight transfer to the track
- 3. Light pressure of skis on the ground

All Models except Summit



TYPICAL — TOO LONG STRAP 1. Skis lift off the ground



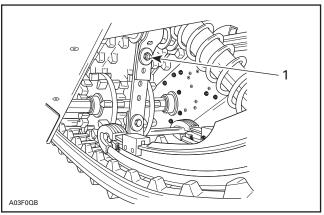
TYPICAL

1. Reduce strap length by bolting to a different hole



TYPICAL — TOO SHORT STRAP

1. Heavy steering



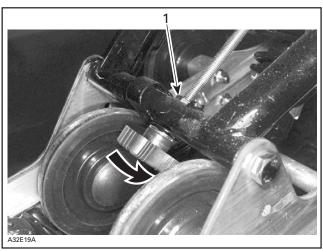
TYPICAL

1. Increase strap length by bolting to a different hole

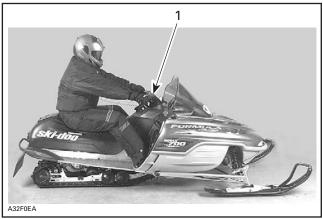
Summit Models



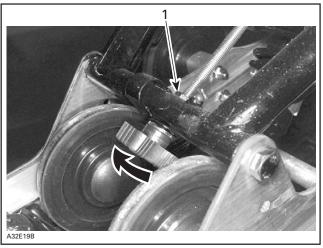
TOO LONG STRAP 1. Skis lift off the ground



1. Loosen lock nut, turn knob accordingly then retighten lock nut



TOO SHORT STRAP 1. Heavy steering



1. Loosen lock nut, turn knob accordingly then retighten lock nut

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4. Coupling Blocks — Handling

All Models except Summit and X Package

Ride at moderate speed and check for desired handling.

When driver and passenger (if applicable) are seated on vehicle, the coupling blocks should be centered between rubber stoppers. This condition is achieved when a proper rear spring preload is done. See above rear spring adjustment.

If handling requires adjustment, turn both left and right blocks by 90.

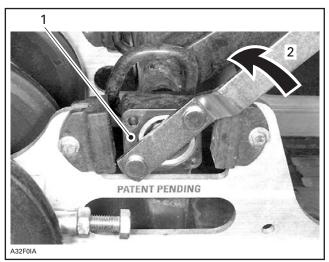
There are only two adjustment positions. Thicker part of block must be facing rearward or downward.

As a general rule, thicker part of block should be facing rearward when riding with a passenger.

⚠ WARNING

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

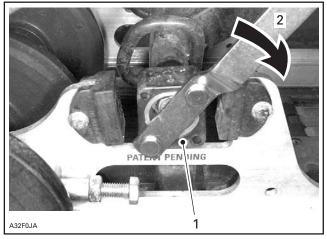
Use tool provided in tool bag to adjust coupling blocks.



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

- Thicker part of block facing rearward (fully coupled suspension) less track grip and more skis steering
- 2. Turn block in this direction to adjust to the other position

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 $COUPLING\ BLOCK-RIGHT\ SIDE\ VIEW\ ("R"-RIGHT\ EMBOSSED\ ON\ BLOCK)$

- Thicker part of block facing downward (partly coupled suspension)
 — more track grip and less skis steering
- 2. Turn block in this direction to adjust to the other position

X Package Only

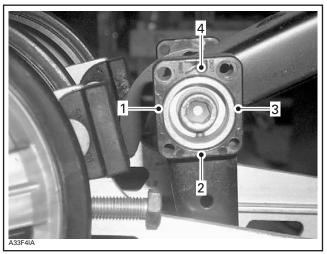
Ride at moderate speed and check for desired handling.

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

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

↑ WARNING

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



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

- 1. Side of block marked "1" facing rearward (partly coupled suspension)
- more track grip and less skis steering
 2. Side of block marked "2" facing rearward (partly coupled suspension) - reduce track grip and increase skis steering
- 3. Side of block marked "3" facing rearward (partly coupled suspension) - reduce track grip and increase skis steering
- 4. Side of block marked "4" facing rearward (fully coupled suspension) - less track grip and more skis steering

5. Front Springs — Handling

Ride at moderate speed and check for proper handling.

Adjust front springs accordingly.

⚠ WARNING

Before proceeding with any suspension adjustment, remember:

- park in a safe place
- remove DESS 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.

⚠ WARNING

Always adjust both front springs to same position.



TYPICAL — PROPER ADJUSTMENT

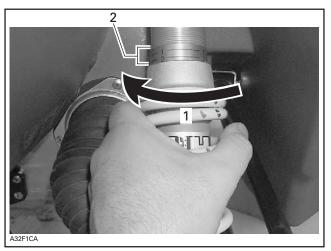
1. Good handling and comfortable steering

Some Models



TYPICAL — TOO SOFT OF ADJUSTMENT

1. Bad handling



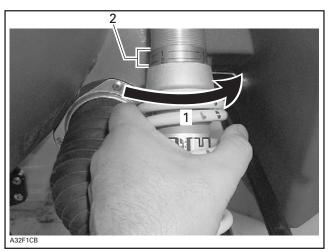
- Increase spring preload
 Position number

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TYPICAL — TOO HARD OF ADJUSTMENT

1. Steering hard to turn



1. Decrease spring preload

2. Position number

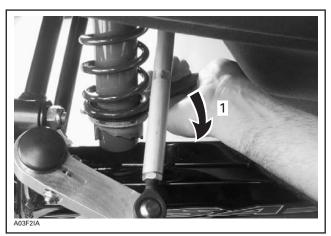
CAUTION: Make sure that both front springs are still pre loaded when front of vehicle is off the ground.

Some Models



TYPICAL — TOO SOFT OF ADJUSTMENT

1. Bad handling



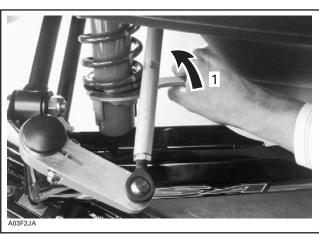
1. Increase spring preload

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TYPICAL — TOO HARD OF ADJUSTMENT

1. Steering hard to turn



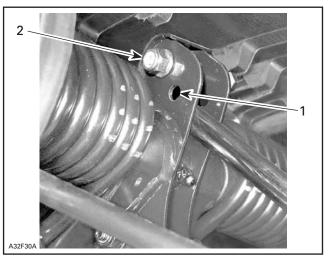
1. Decrease spring preload

Rear Shock Motion Ratio — Damping Strength

Some Models Only

Rear shock motion ratio can be adjusted according to driver and passenger weight and/or trail condition.

There are two adjustment positions.



- 1. Soft position
- 2. Firm position

⚠ 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.

To adjust, remove nut, move bolt to desired position. Install a new nut and torque it to 24 N•m (18 lbf•ft).

⚠ WARNING

Never reuse elastic stop nut. Always install a new one.

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X Package Only

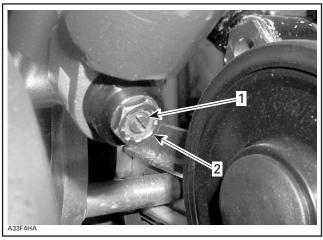
Rear shock on the above mentioned models feature 2 adjustments.

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)

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	Reduce rear suspension front arm pressure. Reduce center spring preload. Increase rear spring preload. Increase front suspension spring preload.
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	 Lengthen stopper strap. Increase center spring preload.
Track spins too much at start	- Lengthen stopper strap Move thicker part of coupling block downward.

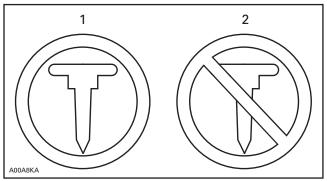
In Deep Snow

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.

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Track

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 to 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

- 1. Approved
- 2. NOT Approved

Generally, snowmobiles adapted for mountain riding comes with tracks equipped with high lug profiles. These tracks are optimized for operation on loose snow. Running those tracks on hard packed surfaces put more stress on the lugs, which tend to heat up as a result. Avoid riding a snowmobile equipped with a high lug profiles track in a trail or on hard surfaces for an extended period of time to avoid potential degradation or damage to the track.

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.

FUEL AND OIL

Recommended Fuel

All Models except 800 HO Engine Equipped

Use regular unleaded gasoline, available from most service stations or oxygenated fuel containing less than 10% of ethanol or 5% of methanol. The gasoline used must have the following recommended minimum octane number.

LOCATION	OCTANE NUMBER
Inside North America	87 octane (RON + MON)/2
Outside North America	91 RON

All 800 HO Engine Equipped Models

Use premium unleaded gasoline, available from most service stations or oxygenated fuel containing less than 10% of ethanol or 5% of methanol. The gasoline used must have the following recommended minimum octane number.

LOCATION	OCTANE NUMBER
Inside North America	91 octane (RON + MON)/2
Outside North America	95 RON

All Models

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.

↑ WARNING

Always stop the engine before refueling. Fuel is inflammable 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

All Models except 4-TEC

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

MODEL	OIL TYPE
2-TEC SDI (1)	XP-S TM synthetic 2-stroke oil ⁽³⁾ or XP-S TM 2-stroke synthetic blend ⁽³⁾
All others	XP-S TM synthetic 2-stroke oil ⁽³⁾ or XP-S TM 2-stroke synthetic blend ⁽³⁾ or XP-S TM mineral injection oil ⁽²⁾

CAUTION: (1) XP-STM synthetic 2-stroke oil and XP-S 2-stroke 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-STM synthetic 2-stroke oil or XP-S 2-stroke synthetic blend. There is no known equivalent on the market for the moment. If a high quality equivalent were available, it could be used.

- (2) If XP-STM Mineral Injection Oil is not available, API TC high-quality low ash two-stroke injection oil may be used.
- (3) XP-STM synthetic 2-stroke, XP-STM 2-stroke synthetic blend and XP-STM mineral injection oil are compatible, they can be mixed together.

XP-STM 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.

The XP-STM 2-stroke synthetic blend and XP-STM synthetic 2-stroke oilprovides 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 OII.

⚠ WARNING

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

4-TEC Models

These models are equipped with a 4-stroke engine.

Use XP-S 0W40 synthetic 4-stroke oil (P/N 293 600 054) — 12 x 1L).

NOTE: There is no known equivalent for this oil on the market for the moment. If a high quality equivalent were available, it could be used.

COLD WEATHER CARBURETION MODIFICATIONS

All Models except 2-TEC and 4-TEC

All vehicles have been calibrated for - 20°C (-4°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 in following pages.

BREAK-IN PERIOD

Engine

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

During break-in period, maximum throttle should not exceed 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 4-TEC

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 miles). Avoid strong acceleration/deceleration, pulling a load or high speed cruising.

10-Hour Inspection

As with any precision piece of mechanical equipment, we suggest that after the first 10 hours of operation — 500 km (300 miles) — or 30 days after the purchase, 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.

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

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, lights, controls and instruments.
- Verify that track and idler wheels are not frozen and free to turn.

⚠ 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

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.

- Check operation of tether and engine cutout switches, ignition switch, headlamp switch (HI-LO), taillight, brake light and pilot lamps.
- Check gear shift lever position (models with mechanical reverse only).
- 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.	
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.	

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OPERATING INSTRUCTIONS

⚠ WARNING

Proceed with pre-operation check list before riding.

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 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 anytime.

⚠ 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 or gearbox 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.

Starting the Engine

IMPORTANT: On 2-TEC electrical starter equipped models, 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.

IMPORTANT: On 2-TEC electrical starter equipped models and 4-TEC models if the battery is dead, engine cannot be started. Have the battery recharged or replaced.

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

⚠ WARNING

Never depress throttle when starting engine.

Choke Equipped Models

Initial Cold Starting

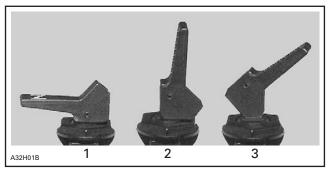
NOTE: Do not operate the throttle lever with the choke lever on.

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

Set the choke lever to position 2.

Grab starter handle firmly and crank engine or use electric starter on so equipped models.

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 1
- 3. Position 2

When Temperature is Above - 10°C (above + 15°F)

Set the choke lever to position 1.

Grab starter handle firmly and crank engine or use electric starter on so equipped models.

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 1. Start the engine without activating the throttle lever. As soon as the engine starts move the choke lever to OFF

2-TEC Models (Manual Starting)

Initial Cold Starting and Warm Engine Starting

Push on the START/RER button once to energize the ECM and gauges, this will ease the starting.

NOTE: If the small battery is low or dead, the ECM and gauges cannot be energize before starting.

Grab starter handle firmly and crank engine.

IMPORTANT: If the small battery is low or dead it is still possible to start the engine, in this case, the pull on the rewind starter must be long (full length of rope).

2-TEC Models (Electrical Starting)

Initial Cold Starting and Warm Engine Starting

Use electric starter.

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.

4-TEC Models

Initial Cold Starting and Warm Engine Starting

Use electric starter.

IMPORTANT: On 4-TEC models if the battery is dead, engine cannot be started. Have the battery recharged or replaced.

NOTE: There is no manual rewind starter on 4-TEC models.

Manual Starting

All Models except 4-TEC

NOTE: There is no manual rewind starter on 4-TEC models.

On fan-cooled models, insert the key in the ignition switch and turn to ON position.

Except for 2-TEC models, activate the choke according to the temperature as explained above.

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

⚠ WARNING

Never depress throttle when starting engine.

Electric Starting (for models so equipped)

Electric Start Fan-Cooled Models

Insert key in ignition switch.

Activate the choke according to the temperature as explained above.

Turn key clockwise until starter engages.

Release key immediately when engine has started.

⚠ WARNING

Never depress throttle when 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.

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

Electric Start Liquid-Cooled Models

Push the START/RER button.

Release START/RER button when engine has started.

♠ WARNING

Never depress throttle when 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.

NOTE: Except for 4-TEC models, if for any reason, the engine cannot be cranked electrically, use rewind starter and start engine manually. There is no manual rewind starter on 4-TEC models.

Emergency Starting

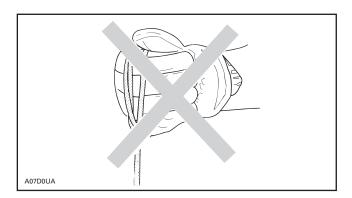
All Models except 4-TEC

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

Remove belt guard.

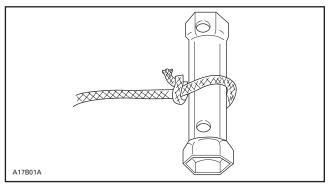
⚠ WARNING

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.

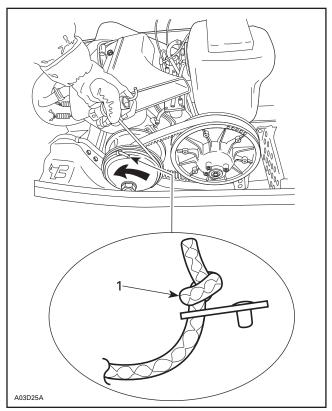


TYPICAL

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

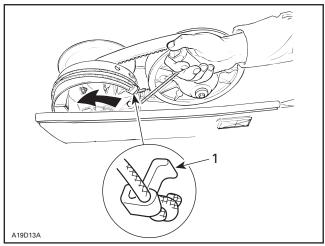
Hook up clip on drive pulley.

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



TYPICAL — FAN-COOLED MODELS

1. Knot on this side



TYPICAL — LIQUID-COOLED MODELS

1. Clip

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.

Shutting Off the Engine

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

Shut off the engine using either ignition switch (fan-cooled models only), 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.

VEHICLE WARM-UP

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

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

Attach tether cord to operator's clothing eyelet.

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

NOTE: On models equipped with DPM-Power TEK technology, engine will stop automatically after four minutes of idling and engine temperature higher than 85°C (185°F). By depressing throttle handle within the four minutes delay, this will reset timer for another four minutes.

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.

RIDING THE VEHICLE

At this point you are acquainted to the specifics of these models of snowmobile and you are instructed about the control locations and operation.

Before starting out on your first ride with this vehicle, read the following safety information as you will be informed about the safe operating practices.

Although the mere reading of such information does not eliminate the hazard, its understanding and heeding of all of the warnings and cautions will promote the safe use of 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.

HOW TO RIDE

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 must never assist by place their feet outside of the vehicle. Experience will teach you how much lean to put into turns at different speeds and how much you will have to lean into a slope to maintain proper balance.

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

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

⚠ WARNING

Do not attempt any maneuvers if they are beyond your level ability.

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.



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 vehicle rear 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 a 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 overexert 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.

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 snowmobiling.
 Make sure that no skin is exposed.
- Once underway, if a passenger feels uncomfortable or unsecure for any reason, he must not wait, and tell the driver to slow-down 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 ADJUSTABLE SUSPENSIONS and to the relevant label on the belt guard.

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.

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.

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.

Protect vehicle with a snowmobile cover.

SPECIAL OPERATIONS

Riding at High Altitudes

If you ride at altitudes above 600 m (2000 ft), your snowmobile should be modified. Refer to an authorized SKI-DOO dealer. Summit models are factory calibrated for high altitude. These models must be converted for sea level utilization.

CAUTION: Do not change original factory calibration if snow-mobile is used below 600 m (2000 ft) (except Summit models).

Engine Overheating

Fan Cooled Models

Shut off the engine.

Check for clogged air duct passages. Remove any foreign materials. Check for proper fan belt condition and tension. See an authorized SKI-DOO dealer.

Liquid Cooled Models

Engine overheating pilot lamp will light up if engine is too hot.

Reduce snowmobile speed and run snowmobile in loose snow or stop engine immediately.

Check for adequate coolant level. See an authorized SKI-DOO dealer.

Fuel Flooded Engine

All Models

Never depress throttle when starting engine, even if flooded with gas.

Install new spark plugs and restart engine.

Rear Suspension Slider Shoe Sticking

All Models

Slider shoes are cooled and lubricated by snow. When riding at moderate or high speed on a thin-snow-covered surface, slider shoes may stick on metallic track guides.

Run snowmobile on a surface covered by snow or drive snowmobile at very slow speed.

Have slider shoes inspected by an authorized SKI-DOO dealer.

MAINTENANCE INFORMATION

PERIODIC MAINTENANCE CHART

⚠ 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 MAIN-TENANCE in *Shop Manual* for more details.

- (1) 10-HOUR OR 500 km (300 m.) INSPECTION (to be performed by an authorized SKI-DOO dealer)
- (2) WEEKLY OR EVERY 240 km (150 m.)
- (3) MONTHLY OR EVERY 800 km (500 m.)
- (4) ONCE A YEAR OR EVERY 3200 km (2000 m.)
- (5) EVERY 6000 km (3700 m.)
- (6) STORAGE (to be performed by an authorized SKI-DOO dealer)
- (7) PRESEASON PREPARATION (to be performed by an authorized SKI-DOO dealer).

PERIODIC MAINTENANCE CHART	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
ENGINE								
Rewind Starter and Rope						I,L,C	Τ	
Engine Nuts and Screws	1			I		ı		
Exhaust System	1		I			1		
Engine Lubrication						L		
Cooling System	1			1			Ι	
Coolant	- 1					R		
Condition of Seals ***						1	1	
RAVE Valves ***				С				
Oil and Filter Replacement (4-TEC)					R			
Injection Oil Filter			I			R		
Injection Oil Pump	Α			Α			Α	

PERIODIC MAINTENANCE CHART	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
FUEL SYSTEM								
Fuel Stabilizer						R		
Fuel Filter							R	
Fuel Lines and Connections	I					ı	1	
Carburetor	Α			Α			A,C	
Throttle Cable	-			I		ı	I	
Air Filter			С				С	
Fuel Injection System (visual inspection)				I				
Throttle Body Bores and Throttle Plates ***							С	
DRIVE								
Drive Belt	-	1					1	
Drive and Driven Pulleys	1		1	С		1	С	
Tightening Torque of Drive Pulley Screw	-			1			1	
Driven Pulley Preload	1			1		1		
BRAKE								
Brake Fluid	-	1				R	1	
Brake	1	1				1	Ι	
TRANSMISSION								
Drive Chain Tension	Α		Α			Α		
Countershaft Lubrication**	L		L			L		
Chaincase Oil	ı		1			R	I	
Drive Axle End Bearing**	L		L			L		
STEERING/SUSPENSION								
Steering and Front Suspension Mechanism **	A,I,L		A,I	L		A,I,L		
Wear and Condition of Skis and Runners	ı	Ι				1		
Suspension Adjustments	AS REQUIRED							
Suspension **	1		I,L			I,L		
Suspension Stopper Strap				I		1		
Track	I		I			I		
Track Tension and Alignment	A AS REQUIRED							

PERIODIC MAINTENANCE CHART	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
ELECTRICAL								
EMS Fault Codes ***					-			
Spark Plugs */***	- 1		1				R	
Battery (if so equipped)	١		I			I	ı	
Headlamp Beam Aiming				Α			Α	
Wiring Harnesses, Cables and Lines	_		1			I		
Operation of Lighting System (HI/LO beam, brake light, etc.), Test Operation of Engine Cut-Out Switch and Tether Cut-Out Switch	ı	1				_		
BODY/FRAME								
Rags in Air Intake and Exhaust System						R	С	
Engine Compartment	С		С			С		
Vehicle Cleaning and Protection	С		С			С		

A = ADJUST

I = INSPECT (CLEAN, INSPECT, REPAIR, ADJUST AND LUBRICATE)

L = LUBRICATE

R = REPLACE

C = CLEAN

- * 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.
- ** Lubricate whenever the vehicle is used in wet conditions (wet snow, rain, puddles).
- *** Emission-related

FLUID LEVELS

⚠ WARNING

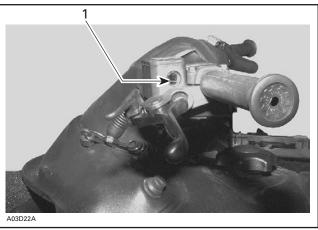
It is recommended that the assistance of an authorized SKI-DOO dealer be periodically obtained on other components/systems not covered in this guide. Unless otherwise specified, engine must be cold and not running. Remove tether cord cap before performing any maintenance or adjustment, unless otherwise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

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

Brake System

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

Chaincase/Gearbox Oil Level

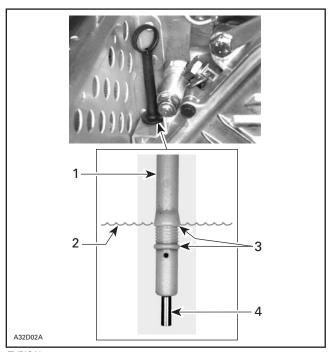
With snowmobile on a level surface, check the oil level by removing dipstick. Oil level must be between lower and upper marks.

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 SPECIFICATIONS.

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



TYPICAL

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

Oil Injection System

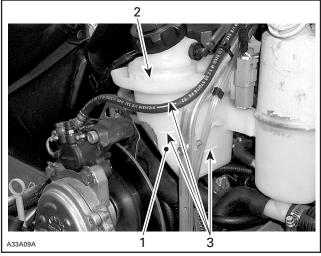
All Models except 4-TEC

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.

$oldsymbol{\Lambda}$ WARNING

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



REV SERIES

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

Engine Oil Level

4-TEC Models

Make sure engine is at operating temperature.

Snowmobile must be on a level surface.

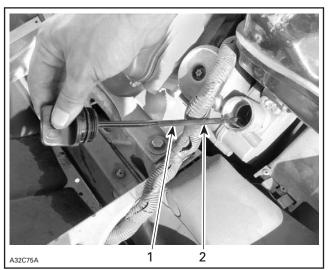
Leave engine running at idle for 30 seconds.

Stop engine and wipe the dipstick.

Dipstick must be completely screwed in before checking oil level.

Oil level must be between minimum and maximum marks on dipstick.

There is a capacity of 500 mL (17 U.S. oz) between the two marks.



- 1. Maximum
- 2. Minimum

Add XP-S 0W40 synthetic 4-stroke oil through dipstick hole as required.

Reinstall dipstick.

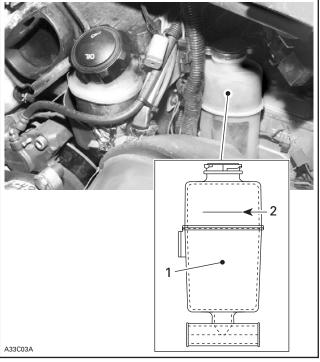
Cooling System

All Liquid-Cooled Models

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

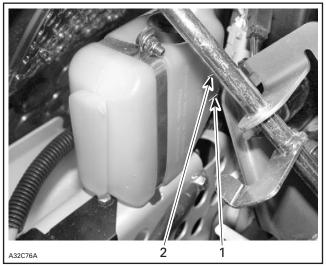
NOTE: When checking level at low temperature it may be slightly lower then the mark.

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



REV SERIES

- 1. Coolant tank
- 2. COLD LEVEL line



4-TEC — OVERFLOW COOLANT TANK

- 1. MINIMUM LEVEL line
- 2. MAXIMUM LEVEL line



4-TEC — CHECK COOLANT LEVEL IN COOLANT TANK
1. Fill to maximum line if necessary

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.

MAINTENANCE FOR 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 2004 model year engines, snowmobile manufacturers of snowmobile engines may 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.

BRP certified the following engines to applicable EPA snowmobile standards:

600 HO SDI

Dealer's Responsibility

When performing service on all 2004 and more recent 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 new 2004 and more recent certified 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:

VIA U.S. POSTAL SERVICE:

Office of Mobile Sources Engine Programs and Compliance Division Engine Compliance Programs Group (6403J)

401 M St. NW Washington, DC 20460

VIA EXPRESS or COURIER MAIL:

Office of Mobile Sources Engine Programs and Compliance Division Engine Compliance Programs Group (6403J)

501 3rd St. NW Washington, DC 20001

EPA INTERNET WEB SITE:

www.epa.gov

MAINTENANCE

⚠ 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 not be running and cold. 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.

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 clean the entire vehicle, including bottom pan and metallic parts 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.

For vinyl and plastic parts use Vinyl & Plastic Cleaner ((P/N 413 711 200) (6 x 1 L)).

To remove scratches on windshield or hood use BOMBARDIER* 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 BOMBARDIER LUBE (P/N 293 600 016).

Wax the hood and the painted portion of the frame 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.

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.

All Models

- Remove tether cord cap. Open engine compartment.

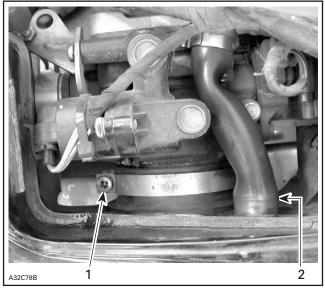
4-TEC Models Only

- Remove air silencer access panel.

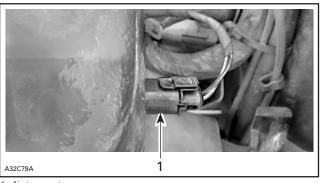


1. Access panel

- Loosen collar screw on air silencer grommet.
- Disconnect engine vent hose from air silencer.



- 1. Collar screw
- 2. Engine vent hose
- Disconnect air temperature sensor from air silencer.

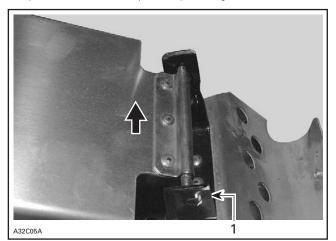


1. Air temperature sensor

At installation do not forget to connect air temperature sensor otherwise a trouble code will appear.

All Models

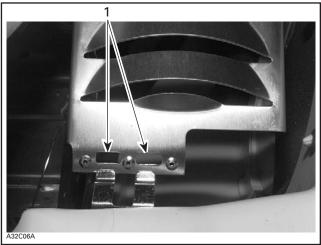
- Open retainer to release pin then pull belt guard out of vehicle.



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 re-



TYPICAL 1. Slots

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.

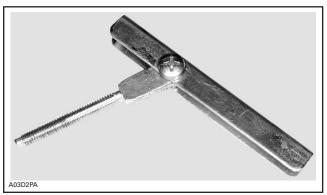
Removal

All Models

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.

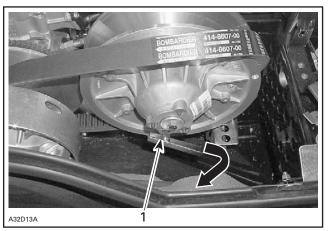
Remove tether cord cap. Open engine compartment and remove belt guard.

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



DRIVE BELT INSTALLER/REMOVER

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



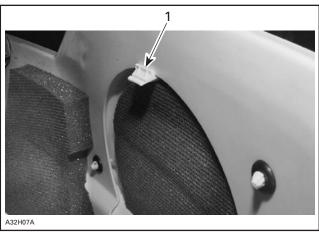
TYPICAL

1. Tighten to open pulley

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

ZX Series Only

Remove access panel from bottom pan.



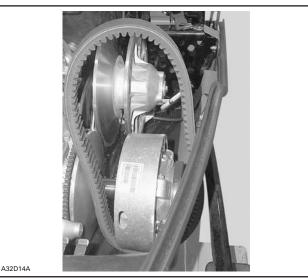
1. Push tab down and remove panel out of bottom pan



PULL PANEL OUT OF BOTTOM PAN

All Models

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



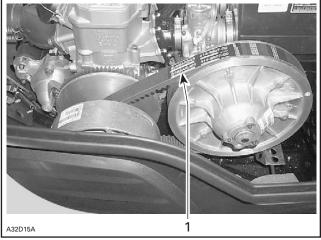
TYPICAL

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

1. 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.

ZX Series Only

Reinstall access panel.

4-TEC Models Only

Reinstall air silencer

All Models

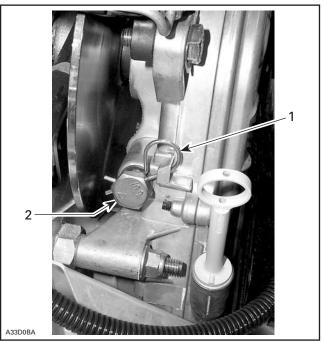
Close engine compartment.

Drive Chain Tension

All Models

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 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

All Models except 4-TEC

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

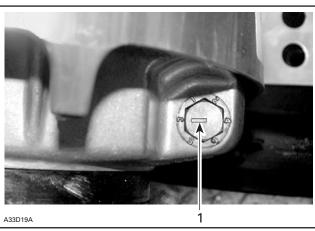
This adjustable drive pulley allows setting maximum engine RPM in the vehicle to maintain maximum power.

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.

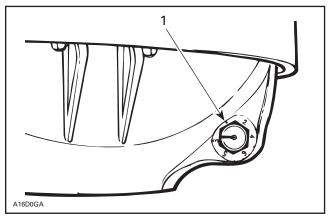
NOTE: The adjustment has an effect on high RPM only.

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.

4-TEC Models

From factory TRA drive pulley adjustment screws are set to position 3. This position allows the best compromise between acceleration, top speed and fuel economy.

Position 1 or 2 would provide the best fuel economy. Top speed would be reduced.

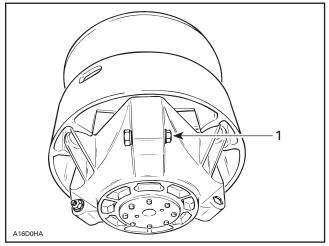
Position 4 would give the best acceleration. Fuel economy would be reduced

Adjustment

All Models

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.

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.

Check the drive belt width. Replace the drive belt if width is less than the minimum width recommended in SPECIFICATIONS

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.

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).

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.

Studded Tracks

If the track of your snowmobile is studded, 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)
- lugs that are broken or torn off, exposing portions of rods
- delamination of the rubber
- broken rods
- broken studs
- bent studs
- studs that are torn off the track
- missing track guide(s).

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 follow the inspections schedule given in the periodic maintenance table.

⚠ 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 a complete information on studs, please 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

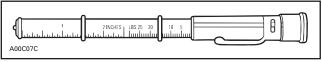
NOTE: Ride the snowmobile in snow about 15 to 20 minutes prior to adjusting track tension.

Remove the tether cord cap.

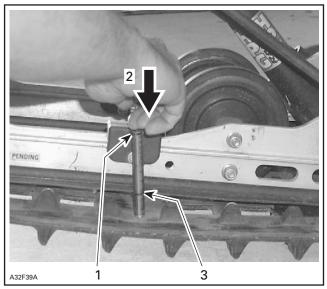
Lift rear of snowmobile and support it with a wide-base snowmobile mechanical stand

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 SPECIFICATIONS at the end of this guide. If the track tension is too loose, track will have a tendency to thump.

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



BELT TENSION TESTER



TYPICAL

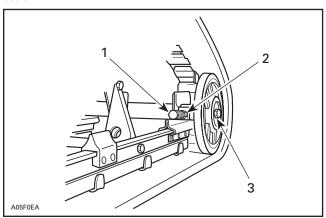
- 1. Top tool O-ring positioned at 7.3 kg (16 lb) 2. Push on top portion of tool until it contacts the top O-ring
- 3. Measured track deflection

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

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

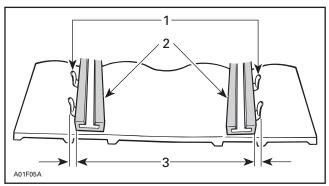
⚠ WARNING

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.

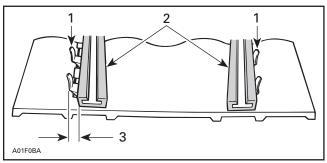


- 1. Guides
- 2. Slider shoes
- 3. Equal distance

⚠ 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.

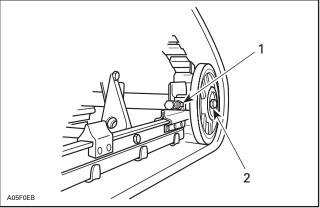


- 1. Guides
- 2. Slider shoes3. Tighten on this side

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

- 1. Retighten (so equipped models)
- 2. Retighten to 48 Nem (35 lbfeft)

Restart engine and rotate track slowly to recheck alignment.

Reposition snowmobile on ground.

Install rear wheel caps if so equipped.

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.

⚠ WARNING

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

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.

Air Filter Cleaning

ZX Series



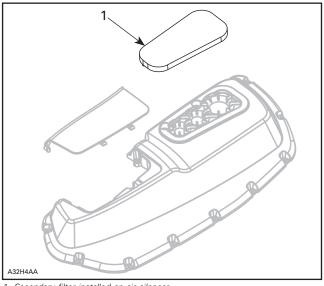
TYPICAL — PRIMARY FILTER LOCATION



REMOVAL OF RIGHT SIDE PRIMARY FILTER GRILL



REMOVAL OF FILTER FROM ITS GRILL

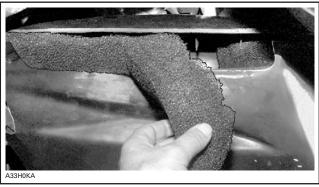


1. Secondary filter installed on air silencer

REV Series



AIR FILTER LOCATION



REMOVAL OF FILTER FROM ITS GRILL

All Models

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.

Headlamp Beam Aiming

ZX Series

Turn knob to adjust beam height.

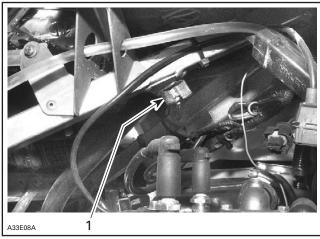


TYPICAL — ZX SERIES

1. Knob

REV Series

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



TYPICAL — REV SERIES

1. Knob

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.

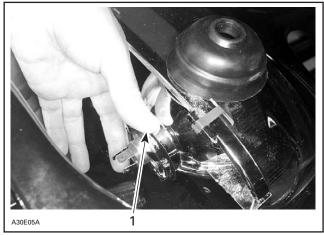
ZX Series

If any headlamp bulb is burnt, remove windshield and unplug burnt bulb connector. Remove the rubber boot.



- Bulb connector
 Rubber boot

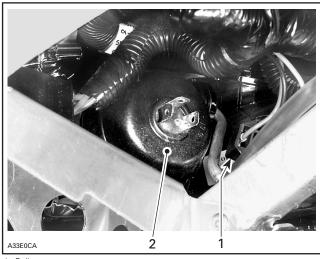
Turn bulb locking ring counterclockwise to remove it. Detach the bulb and replace. Properly reinstall parts.



1. Locking ring

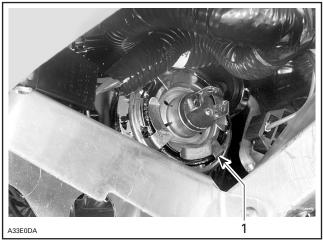
REV Series

Unplug burnt bulb connector. Remove the rubber boot.



- Bulb connector
 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.

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.

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.

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 for the storage period 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.

TROUBLESHOOTING

Monitoring Beeper Coded Signals

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.

2 short beeps (when engine is started). DESS/RER pilot lamp also blinks.

- Confirms that proper tether cord cap is installed. Engine can rev above pulley engagement.
 - Normal condition

1 short beep every 1.5 seconds (when engine is started). DESS/RER pilot lamp also blinks.

Engine cannot reach pulley engagement speed. Vehicle cannot be driven.

- 1. Bad DESS system connection.
 - Reinstall tether cord cap correctly over post.
- 2. Defective tether cord cap.
 - Use another programmed tether cord cap.
- Dirt or snow in tether cord cap.
 - Clean tether cord cap.
- 4. Defective DESS post.
 - Replace DESS post.

1 long beep per second.

- 1 Reverse is selected
 - Vehicle can be driven in reverse.

3 short beeps per second. DESS/RER pilot lamp also blinks. Engine cannot reach pulley engagement speed. Vehicle cannot be driven.

- 1. Wrong tether cord cap is installed.
 - Install proper tether cord cap. Program key into electronic module.

3 short beeps per second. Engine overheating pilot lamp also blinks.

- 1. Engine is overheating.
 - Stop engine immediately and allow to cool. Check cooling system.

3 short beeps per second. Oil pilot lamp also lights up.

- 1. Low oil pressure on 4-TEC models.
 - Stop engine immediately and check oil level and top it. Check lubrication system.

3 short beeps per second.

- 1. Low battery voltage.
 - Check battery and charging system.

4 short beeps every 2 minutes. Oil pilot lamp also lights up.

- 1 Low oil level on 2-TFC models
 - Check oil level and replenish as soon as possible.

Battery pilot lamp lights up.

- 1. No charging.
 - Check battery and charging system.

4 short beeps every 2 minutes.

- 1. Too high battery voltage.
 - Check battery and charging system.
- 2. DESS system has detected a shorted key installed on DESS post.
 - Use another programmed tether cord cap.

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 cutout 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.

- 1. DESS did not read tether cord cap 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 (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.

- 6. 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 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 (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.
- 5. 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 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 (key) for which this snowmobile was programmed.
- 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.
- Water in fuel.
 - Drain fuel system and refill with fresh fuel.

Snowmobile cannot reach full speed.

- DESS did not read tether cord cap 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 (key) for which this snowmobile was programmed.
- 3. Drive belt.
 - Check item 6 of ENGINE LACKS ACCELERATION OR POWER.
- 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.
- 6. Engine.
 - See items 1, 2, 6 and 7 of ENGINE LACKS ACCELERATION OR POWER.

SPECIFICATIONS

MODEL		GSX/GTX/MX-Z FAN 380 F
Engine		
Maximum power engine speed	± 100 RPM	6800
Drive Belt		
Part number		415 060 600
Wear limit width	mm (in)	32.3 (1-9/32)
Spark Plug		
Туре		NGK BR 9 ES
Gap	± 0.05 mm (± .002 in)	0.45 (.018) (11)
Track		
Tension	mm (in)	35 - 40 (1-3/8 - 1-9/16) (1)
Alignment		(2)
Fuel		
Туре		(3)
Tank capacity	L (U.S. gal)	37.0 (9.8)
Oil (engine)		
Туре		(6)
Tank capacity	L (U.S. oz)	3.5 (118)
Chaincase/Transmission Oil		
Туре		(8)
Capacity	mL (U.S. oz)	250 (8.5)
Coolant		
Туре		N.A.
Capacity	L (U.S. oz)	N.A.
Brake System Fluid		
Туре		DOT 4 (12)
(1) to (12) and N.A.: See at end		

(1) to (12) and N.A.: See at end of specifications. 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.

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MODEL		EXPEDITION FAN 550F	GSX/GTX/MX-Z FAN 550F
Engine			
Maximum power engine speed	± 100 RPM	6950	6950
Drive Belt			
Part number		415 060 600	415 060 600
Wear limit width	mm (in)	32.3 (1-3/8)	32.3 (1-3/8)
Spark Plug			
Туре		NGK BR 9 ES	NGK BR 9 ES
Gap	± 0.05 mm (± .002 in)	0.45 (.018) (11)	0.45 (.018) (11)
Track			
Tension	mm (in)	30 - 35 (1-3/16 - 1-3/8)(1)	30 - 35 (1-3/16 - 1-3/8) (1)
Alignment		(2)	(2)
Fuel			
Type		(3)	(3)
Tank capacity	L (U.S. gal)	37.0 (9.8)	37.0 (9.8)
Oil (engine)			
Туре		(6)	(6)
Tank capacity	L (U.S. oz)	3.5 (118)	3.5 (118)
Chaincase/Transmission	0il		
Туре		(8)	(8)
Capacity	mL (U.S. oz)	250 (8.5)	250 (8.5)
Coolant			
Туре		N.A.	N.A.
Capacity	L (U.S. oz)	N.A.	N.A.
Brake System Fluid			
Туре		DOT 4 (12)	DOT 4 (12)

MODEL		LEGEND SPORT /SE V-1000	LEGEND SE GT/SPORT GT V-1000
Engine			
Maximum power engine speed	± 100 RPM	7250	7250
Drive Belt			
Part number		417 300 197	417 300 197
Wear limit width	mm (in)	34.2 (1-11/32)	34.2 (1-11/32)
Spark Plug			
Туре		NGK DCPR8E	NGK DCPR8E
Gap	± 0.05 mm (± .002 in)	0.80 (.031)	0.80 (.031)
Track			
Tension	mm (in)	30 - 35 (1-3/16 - 1-3/8) (1)	30 - 35 (1-3/16 - 1-3/8) (1)
Alignment		(2)	(2)
Fuel			
Туре		(3)	(3)
Tank capacity	L (U.S. gal)	39 (10.3)	39 (10.3)
Oil (engine)			
Туре		(7)	(7)
Tank capacity	L (U.S. oz)	3.4 (115)	3.4 (115)
Chaincase/Transmission	0il		
Туре		(9)	(9)
Capacity	mL (U.S. oz)	250 (8.5)	250 (8.5)
Coolant			
Туре		(10)	(10)
Capacity	L (U.S. oz)	3.8 (128)	4.0 (135)
Brake System Fluid			
Туре		DOT 4 (12)	DOT 4 (12)
(1) to (12) and N. A.: Soo	at and of anasifi	- ,	2014 (12)

(1) to (12) and N.A.: See at end of specifications.

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.

Alignment (2) (2) Fuel Type (3) (3) (3) Tank capacity L (U.S. gal) 37 (9.8) 37 (9.8) Oil (engine) Type (6) (6) Tank capacity L (U.S. oz) 3.5 (118) 3.5 (118) Chaincase/Transmission Oil Type (9) (9) Capacity mL (U.S. oz) 250 (8.5) 250 (8.5) Coolant Type (10) (10) Capacity L (U.S. oz) 4.3 (145) GTX: 4.9 (166) Brake System Fluid	MODEL		GSX/GTX/MX-Z 500 SS	SUMMIT ADRENALINE 600 HO
engine speed	Engine			
Part number		± 100 RPM	8000	8000
Wear limit width mm (in) 34.2 (1-11/32) 34.2 (1-11/32) Spark Plug Type NGK BR 9 ECS NGK BR 9 ECS NGK BR 9 ECS NGK BR 9 ECS O.45 0.45 <td>Drive Belt</td> <td></td> <td></td> <td></td>	Drive Belt			
Spark Plug Type NGK BR 9 ECS NGK BR 9 ECS NGK BR 9 ECS Gap ± 0.05 mm (± .002 in) 0.45 (.018) (11) 0.45 (.018) (11) Track Tension mm (in) 30 - 35 (1-3/16 - 1-3/8) (1) 30 - 35 (1-3/16 - 1-3/8) (1) Alignment (2) (2) (2) Fuel Type (3) (3) (3) Tank capacity L (U.S. gal) 37 (9.8) 37 (9.8) Oil (engine) Type (6) (6) (6) Tank capacity L (U.S. oz) 3.5 (118) 3.5 (118) Chaincase/Transmission Oil Type (9) (9) Capacity mL (U.S. oz) 250 (8.5) 250 (8.5) Coolant Type (10) (10) Capacity L (U.S. oz) 4.3 (145) (166) 4.5 (152) Brake System Fluid	Part number		417 300 197	417 300 197
Type	Wear limit width	mm (in)	34.2 (1-11/32)	34.2 (1-11/32)
Capacity Capacity	Spark Plug			
Gap (± .002 in) (.018) (11) (.018) (11) Track Tension mm (in) 30 - 35 (1-3/16 - 1-3/8) (1) (1-3/16 - 1-3/8) (1) (1-3/16 - 1-3/8) (1) Alignment (2) (2) (2) Fuel Type (3) (3) (3) (3) 79.8) Oil (engine) Type (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (7) (7) (7) (9) (9) (9) (9) (9) (9) (9) (2) (2) (8) (8) (9) (9) (9) (9) (9) (9) (10) (Туре		NGK BR 9 ECS	NGK BR 9 ECS
Tension	Gap			
Iension	Track			
Fuel Type (3) (3) (3) Tank capacity L (U.S. gal) 37 (9.8) 37 (9.8) Oil (engine) Type (6) (6) Tank capacity L (U.S. oz) 3.5 (118) 3.5 (118) Chaincase/Transmission Oil Type (9) (9) Capacity mL (U.S. oz) 250 (8.5) 250 (8.5) Coolant Type (10) (10) Capacity L (U.S. oz) 4.3 (145) (152) Brake System Fluid	Tension			30 - 35 (1-3/16 - 1-3/8) (1)
Type (3) (3) (3) Tank capacity L (U.S. gal) 37 (9.8) 37 (9.8) Oil (engine) Type (6) (6) Tank capacity L (U.S. oz) 3.5 (118) 3.5 (118) Chaincase/Transmission Oil Type (9) (9) Capacity mL (U.S. oz) 250 (8.5) 250 (8.5) Coolant Type (10) (10) Capacity L (U.S. oz) 4.3 (145) (152) Brake System Fluid	Alignment		(2)	(2)
Tank capacity L (U.S. gal) 37 (9.8) 37 (9.8) Oil (engine) Type (6) (6) Tank capacity L (U.S. oz) 3.5 (118) 3.5 (118) Chaincase/Transmission Oil Type (9) (9) Capacity mL (U.S. oz) 250 (8.5) 250 (8.5) Coolant Type (10) (10) Capacity L (U.S. oz) 4.3 (145) GTX: 4.9 (166) Brake System Fluid	Fuel			
Oil (engine) (6) (6) Tank capacity L (U.S. oz) 3.5 (118) 3.5 (118) Chaincase/Transmission Oil Type (9) (9) Capacity mL (U.S. oz) 250 (8.5) 250 (8.5) Coolant Type (10) (10) Capacity L (U.S. oz) 4.3 (145) 4.5 (152) Brake System Fluid	Туре		(3)	(3)
Type (6) (6) Tank capacity L (U.S. oz) 3.5 (118) 3.5 (118) Chaincase/Transmission Oil Type (9) (9) Capacity mL (U.S. oz) 250 (8.5) 250 (8.5) Coolant Type (10) (10) Capacity L (U.S. oz) 4.3 (145) GTX: 4.9 (166) Brake System Fluid	Tank capacity	L (U.S. gal)	37 (9.8)	37 (9.8)
Tank capacity L (U.S. oz) 3.5 (118) 3.5 (118) Chaincase/Transmission Oil Type (9) (9) Capacity mL (U.S. oz) 250 (8.5) 250 (8.5) Coolant Type (10) (10) Capacity L (U.S. oz) 4.3 (145) (152) Brake System Fluid	Oil (engine)			
Chaincase/Transmission Oil Type (9) (9) Capacity mL (U.S. oz) 250 (8.5) 250 (8.5) Coolant Type (10) (10) Capacity L (U.S. oz) 4.3 (145) 4.5 (152) Brake System Fluid A.5 (152)	Туре		(6)	(6)
Type (9) (9) Capacity mL (U.S. oz) 250 (8.5) 250 (8.5) Coolant Type (10) (10) Capacity L (U.S. oz) 4.3 (145) GTX: 4.9 (166) Brake System Fluid	Tank capacity	L (U.S. oz)	3.5 (118)	3.5 (118)
Capacity mL (U.S. oz) 250 (8.5) 250 (8.5) Coolant Type (10) (10) Capacity L (U.S. oz) 4.3 (145) GTX: 4.9 (166) Brake System Fluid	Chaincase/Transmission Oi	il		
Coolant (10) (10) Type (10) (10) Capacity L (U.S. oz) 4.3 (145) GTX: 4.9 (166) 4.5 (152) Brake System Fluid	Туре		(9)	(9)
Type (10) (10) Capacity L (U.S. oz) 4.3 (145) (152) Brake System Fluid	Capacity	mL (U.S. oz)	250 (8.5)	250 (8.5)
Capacity L (U.S. oz) 4.3 (145) GTX: 4.9 (166) 4.5 (152) Brake System Fluid	Coolant			
Capacity L (U.S. 02) GTX: 4.9 (166) 4.5 (152)	Туре		(10)	(10)
·	Capacity	L (U.S. oz)		4.5 (152)
	Brake System Fluid			
Type DOT 4 (12) DOT 4 (12)	Туре		DOT 4 (12)	DOT 4 (12)

(1) to (12) and N.A.: See at end of specifications.

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		GSX/GTX/MX-Z 600 HO SDI	GSX/GTX/MX-Z 600 HO
Engine			
Maximum power engine speed	± 100 RPM	8000	8000
Drive Belt			
Part number		417 300 197	417 300 197
Wear limit width	mm (in)	34.2 (1-11/32)	34.2 (1-11/32)
Spark Plug			
Туре		NGK BR 9 ECS	NGK BR 9 ECS
Gap	± 0.05 mm (± .002 in)	0.80 (.031) (11)	0.45 (.018) (11)
Track			
Tension	mm (in)	30 - 35 (1-3/16 - 1-3/8)(1)	30 - 35 (1-3/16 - 1-3/8)(1)
Alignment		(2)	(2)
Fuel			
Туре		(4)	(3)
Tank capacity	L (U.S. gal)	37 (9.8)	37 (9.8)
Oil (engine)			
Туре		(5)	(5)
Tank capacity	L (U.S. oz)	3.5 (118)	3.5 (118)
Chaincase/Transmission	n Oil		
Type		(9)	(9)
Capacity	mL (U.S. oz)	250 (8.5)	250 (8.5)
Coolant			
Туре		(10)	(10)
Capacity	L (U.S. oz)	121": 4.9 (166) 136": 5.17 (175)	121": 4.9 (166) 136": 5.17 (175)
Brake System Fluid			
Type		DOT 4 (12)	DOT 4 (12)

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MODEL		GSX/GTX/MX-Z 800 HO
Engine		
Maximum power engine speed	± 100 RPM	7850
Drive Belt		
Part number		417 300 166
Wear limit width	mm (in)	35.3 (1-3/8)
Spark Plug		
Туре		NGK BR 9 ECS
Gap	± 0.05 mm (± .002 in)	0.45 (.018) (11)
Track		
Tension	mm (in)	30 - 35 (1-3/16 - 1-3/8) (1)
Alignment		(2)
Fuel		
Туре		(3)
Tank capacity	L (U.S. gal)	37.0 (9.8)
Oil (engine)		
Туре		(6)
Tank capacity	L (U.S. oz)	3.5 (118)
Chaincase/Transmission Oil		
Туре		(9)
Capacity	mL (U.S. oz)	250 (8.5)
Coolant		
Туре		(10)
Capacity	L (U.S. oz)	121": 4.9 (166) 136": 5.17 (175)
Brake System Fluid		
Туре		DOT 4 (12)

MODEL		SUMMIT ADR./X 800 HO
Engine		
Maximum power engine speed	± 100 RPM	7850
Drive Belt		
Part number		417 300 166
Wear limit width	mm (in)	35.3 (1-3/8)
Spark Plug		
Туре		NGK BR 9 ECS
Gap	± 0.05 mm (± .002 in)	0.45 (.018) (11)
Track		
Tension	mm (in)	30 - 35 (1-3/16 - 1-3/8) (1)
Alignment		(2)
Fuel		
Туре		(4)
Tank capacity	L (U.S. gal)	37.0 (9.8)
Oil (engine)		
Туре		(6)
Tank capacity	L (U.S. oz)	3.5 (118)
Chaincase/Transmission Oil		
Туре		(9)
Capacity	mL (U.S. oz)	250 (8.5)
Coolant		
Туре		(10)
Capacity	L (U.S. oz)	144": 4.5 (152) 159": 4.69 (159)
Brake System Fluid		
Туре		DOT 4 (12)
(1) to (12) and N.A.: See at end	of specifications. Beca	ause of its ongoing com-

- (1) Measure gap between slider shoe and bottom inside of track when exerting a downward pull of 7.3 kg (16 lb) to the track.
- (2) Equal distance between edges of track guides and slider shoes.
- (3) Regular unleaded gasoline with a minimum octane number of: (87 (R + M)/2 Inside North America) or (91 RON Outside North America).
- (4) Premium unleaded gasoline with a minimum octane number of: (91 (R + M)/2 Inside North America) or (95 RON Outside North America).
- (5) XP-S[™] synthetic 2-stroke oil OR XP-S[™] 2-stroke synthetic blend.
- (6) XP-S™ synthetic 2-stroke oil OR XP-S™ 2-stroke synthetic blend OR XP-S™ mineral injection oil.
- (7) XP-STM 0W40 synthetic 4-stroke oil (P/N 293 600 054) 12 x 1L)
- (8) XP-STM chaincase oil (P/N 413 801 900) 12 x 250 mL).
- (9) XP-STM synthetic chaincase oil (P/N $\,$ 413 803 300) 12 x 355 mL).
- (10) premixed coolant (P/N 413 711 802) 16 x 1 L).

CAUTION: (11) Do not attempt to adjust gap on spark plug BR 9 ECS.

(12) SRF (DOT 4) (P/N 293 600 063) or GTLMA (DOT 4) (P/N 293 600 062).

N.A.: Not applicable

WARRANTY

BRP LIMITED WARRANTY NORTH AMERICA: 2005 SKI-DOO® SNOWMOBILES

1. SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")* warrants its 2005 Ski-Doo snowmobiles 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 (as hereinafter defined) at the time of delivery of the 2005 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 2005 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. 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 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: 600 HO SDI and 4-TEC V-1000.

EMISSION-RELATED COMPONENTS	600 HO SDI	4-TEC V-1000
Throttle Position Sensor (TPS)	Х	X
Air Temperature Sensor (ATS)	Х	X
Air Pressure Sensor (APS)	Х	X
Fuel Pressure Regulator	Х	X
Fuel Injectors	Х	X
Engine Management System (EMS)	Х	X
Cylinder Head Rubber Rings/O-Ring or Gasket	X	Х
Cylinder/Base Gaskets	Х	
Throttle Body Shaft Seals	Х	
RAVE Hose System	Х	
Exhaust System Sealing Components	Х	
Knock Sensor	Х	
Muffler Temperature Sensor	Х	
Crankcase Ventilation System		X

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

3. CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only on 2005 Ski-Doo snowmobile purchased as new and unused by its first owner from a BRP dealer authorized to distribute Ski-Doo products in the country in which the sale occurred ("BRP dealer"), and then only after the BRP specified pre-delivery inspection process is completed and documented. Warranty coverage only becomes available upon proper registration of the product by an authorized BRP dealer. Moreover, this warranty coverage is only available if the Ski-Doo snowmobile is purchased in the country in which the purchaser resides. BRP will not honor this limited warranty to any private use owner or commercial use owner if the preceding conditions have not been met. Such limitations are necessary in order to allow BRP to preserve both the safety of its products, and also that of its consumers and the general public.

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.

4. 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.

5. 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.

6. EXCLUSIONS

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.

7. 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.

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:

- (a) 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.

SKI-DOO CONSUMER SERVICES GROUP VALCOURT QC J0E 2L0 Tel: (819) 566-3366

In USA:

BOMBARDIER MOTOR CORPORATION OF AMERICA

SKI-DOO CONSUMER SERVICES GROUP 7575 BOMBARDIER COURT WAUSAU WI 54401

Tel: (715) 848-4957

BRP INTERNATIONAL LIMITED WARRANTY: 2005 SKI-DOO® SNOWMOBILES

1. SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP") warrants its 2005 Ski-Doo snowmobiles 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 (as hereinafter defined) at the time of delivery of the 2005 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

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. 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.

3. CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only on 2005 Ski-Doo snowmobile 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"), and then only after the BRP specified pre-delivery inspection process is completed and documented. Warranty coverage only becomes available upon proper registration of the product by an authorized BRP distributor/dealer. Moreover, this warranty coverage is only available if the Ski-doo snowmobile is purchased in the country or union of countries in which the purchaser resides. BRP will not honor this limited warranty to any private use owner or commercial use owner if the preceding conditions have not been met. Such limitations are necessary in order to allow BRP to preserve both the safety of its products, and also that of its consumers and the general public.

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.

4. 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.

5. 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

6. EXCLUSIONS

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.

7. 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.

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.
- (c) If the matter still remains unresolved then contact BRP by writing to us at the address listed below.

BOMBARDIER RECREATIONAL PRODUCTS INC.

SKI-DOO CONSUMER SERVICES GROUP VALCOURT QC J0E 2L0

Tel: (819) 566-3366

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 below

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

Bombardier Recreational Products Inc.

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

CHANGE OF ADDRESS OR OWNERSHIP

If your address has changed or if you have sold or given your vehicle to anyone, be sure to fill out and mail the card provided on next page.

Such notification is necessary for your safety or the safety of any subsequent owner, even after expiration of the original warranty, since BRP will be in a position to contact you if correction to your snowmobile becomes necessary.

NOTICE TO ALL NEW OWNERS:

Make sure to mail the change of *Ownership Card* as you are entitled to the unexpired portion of the warranty.

STOLEN UNITS

If the event that your snowmobile is stolen, you should notify your area distributor's warranty department of such.

Please provide your name, address, phone number, vehicle serial number and date of theft.

BRP will provide a list of stolen units to all authorized SKI-DOO dealers on a monthly basis to aid in recovery of such units to their owners.

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CHANGE OF ADDRESS	DRESS	CHANGE OF	CHANGE OF OWNERSHIP
VEHICLE IDENTIFI	VEHICLE IDENTIFICATION NUMBER		
			_
OLD ADDRESS	RESS		
		NAME	
	NO.	STREET	APT.
	CITY	STATE/PROVINCE	ZIP/POSTAL CODE
NEW ADDRESS	RESS		
OA NEW OWNER		NAME	
	NO.	STREET	APT.
A00A8I	CITY	STATE/PROVINCE	ZIP/POSTAL CODE

AFFIX PROPER POSTAGE

BombardierRecreational Products Inc.

WARRANTY DEPARTMENT 75, J.A. Bombardier Sherbrooke, QC Canada J1L 1W3

