

ski-doo®



2011

**OPERATOR'S
GUIDE**

Includes
Safety, Vehicle
and Maintenance Information

REV-XR™

⚠ WARNING

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

5 2 0 0 0 0 9 8 1

! WARNING

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

! WARNING

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



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FOREWORD

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

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

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

Know Before You Go

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

- *SAFETY INFORMATION*
- *VEHICLE INFORMATION*.


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


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

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

Safety Messages

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

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

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

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

About this Operator's Guide

This Operator's Guide has been prepared to acquaint the owner/operator and passenger with this snowmobile and its various controls, safe riding and maintenance instructions.

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

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

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

The informations contained in this document are correct at the time of publication. BRP, however, maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured. Due to late changes, some differences between the manufactured product and the descriptions and/or specifications in this guide may occur. BRP reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring any obligation upon itself.

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

TABLE OF CONTENTS

FOREWORD	1
Know Before You Go	1
Safety Messages	1
About this Operator's Guide	1

SAFETY INFORMATION

GENERAL PRECAUTIONS	8
Avoid Carbon Monoxide Poisoning	8
Avoid Gasoline Fires and Other Hazards	8
Avoid Burns from Hot Parts	8
Accessories and Modifications	8
SPECIAL SAFETY MESSAGES	9
RIDING THE VEHICLE	12
Pre-Ride Inspection	12
How to Ride	14
Carrying a Passenger	16
Terrain/Riding Variations	17
Environment	21
TRACTION ENHANCING PRODUCTS	24
Manoeuvrability	24
Acceleration	25
Braking	25
Important Safety Rules	25
Traction Enhancing Products Effect on the Snowmobile Durability	25
Installation of Studs on BRP Approved Tracks	26
Inspection of a Studded Track	27
IMPORTANT ON-PRODUCT LABELS	28
Hang Tag(s)	28
Vehicle Safety Labels	28
Compliance Labels	33
Technical Information Label	33

VEHICLE INFORMATION

CONTROLS, INSTRUMENTS AND EQUIPMENT	36
1) Handlebar	37
2) Throttle Lever	37
3) Brake Lever	38
4) Parking Brake Lever	38
5) Engine Cut-off Switch	39
6) Emergency Engine Stop Switch	40
7) Multifunction Switch	40
8) Shift Lever	42
9) Tilt Steering	43

CONTROLS, INSTRUMENTS AND EQUIPMENT (cont'd)	
10) Mirrors	43
11) Tool Kit	43
12) Grab Handle/Bumper	44
13) Gauge	44
14) Operator's Guide	61
15) Driver's Seat	61
16) Backrest	62
17) Passenger (1+1) Seat	63
18) Passengers Handholds	64
19) Storage Compartment	64
20) Rear Rack	65
21) Tunnel Bag (GSX)	65
22) Tunnel Bag (Grand Touring)	65
23) Saddlebags	66
24) Passenger Heated Grip Switch	67
25) Heated Seats Switches	67
26) Electric Visor Jack Connectors	67
27) 12-Volt Power Outlet	68
28) Hitch	68
29) Spare Drive Belt Stowage	69
30) Drive Belt Guard	69
31) Hood	70
32) Side Panels	71
FUEL	72
Recommended Fuel	72
Fueling Procedure	72
INJECTION OIL (600 HO E-TEC)	74
Recommended Injection Oil	74
Injection Oil Level Verification	74
BREAK-IN PERIOD	75
Break-In Period Duration	75
Operation During Break-In	75
Break-In Inspection	75
OPERATING INSTRUCTIONS	76
Engine Starting Procedure	76
Emergency Starting	76
Vehicle Warm-Up	77
Operating in Reverse	78
Shutting Off the Engine	78
Towing an Accessory	78
Towing Another Snowmobile	79
TUNE YOUR RIDE	80
Air Suspension (SE Models)	80
Rear Suspension Adjustments	81
Front Suspension Adjustments	85

TUNE YOUR RIDE (cont'd)
 Vehicle Behavior Related to Suspension Adjustment..... 88

VEHICLE TRANSPORTATION..... **89**

MAINTENANCE

BREAK-IN INSPECTION **92**

MAINTENANCE SCHEDULE (600 HO E-TEC)..... **95**

MAINTENANCE SCHEDULE (1200 4-TEC)..... **97**

PRESEASON PREPARATION..... **99**

STORAGE..... **101**
 Engine Storage Mode (E-TEC) 101

MAINTENANCE PROCEDURES **103**
 Air Filter 103
 Engine Coolant 103
 Engine Oil (1200 4-TEC) 104
 Exhaust System 105
 Spark Plugs 106
 Engine Stopper (600 HO E-TEC) 106
 Brake Fluid 107
 Chaincase Oil 108
 Drive Chain 109
 Drive Belt 109
 Drive Pulley 111
 Track 113
 Suspension 116
 Skis 117
 Fuses 117
 Lights 118

VEHICLE CARE..... **121**
 Post-Operation Care 121
 Vehicle Cleaning and Protection 121

TECHNICAL INFORMATION

VEHICLE IDENTIFICATION **124**
 Vehicle Description Decal 124
 Identification Numbers 124

EC DECLARATION OF CONFORMITY..... **126**

EPA CERTIFIED ENGINES **127**
 Engine Emissions Information 127

SPECIFICATIONS **128**

TROUBLESHOOTING

TROUBLESHOOTING GUIDELINES (E-TEC)..... 136
TROUBLESHOOTING GUIDELINES (1200 4-TEC) 138
MONITORING SYSTEM 140
 Pilot Lamps, Messages and Beeper Codes..... 140
 Fault Codes 143

WARRANTY

**BRP LIMITED WARRANTY USA AND CANADA: 2011 SKI-DOO®
 SNOWMOBILES 146**
**BRP INTERNATIONAL LIMITED WARRANTY: 2011 SKI-DOO®
 SNOWMOBILES 150**
**BRP LIMITED WARRANTY FOR THE EUROPEAN ECONOMIC AREA: 2011 SKI-
 DOO® SNOWMOBILES 154**

CUSTOMER INFORMATION

PRIVACY INFORMATION 160
CHANGE OF ADDRESS/OWNERSHIP..... 161

SAFETY INFORMATION

GENERAL PRECAUTIONS

Avoid Carbon Monoxide Poisoning

All engine exhaust contains carbon monoxide, a deadly gas. Breathing carbon monoxide can cause headaches, dizziness, drowsiness, nausea, confusion and eventually death.

Carbon monoxide is a colorless, odorless, tasteless gas that may be present even if you do not see or smell any engine exhaust. Deadly levels of carbon monoxide can collect rapidly, and you can quickly be overcome and unable to save yourself. Also, deadly levels of carbon monoxide can linger for hours or days in enclosed or poorly ventilated areas. If you experience any symptoms of carbon monoxide poisoning, leave the area immediately, get fresh air and seek medical treatment.

To prevent serious injury or death from carbon monoxide:

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

Avoid Gasoline Fires and Other Hazards

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

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

Gasoline is poisonous and can cause injury or death.

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

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

Avoid Burns from Hot Parts

The exhaust system and engine become hot during operation. Avoid contact during and shortly after operation to avoid burns.

Accessories and Modifications

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

See your authorized Ski-Doo dealer for available accessories for your vehicle.

SPECIAL SAFETY MESSAGES

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

- Always make a pre-ride inspection **BEFORE** you start the engine.
- Throttle mechanism should be checked for free movement and return to idle position before starting engine.
- Always attach tether cord eyelet to clothing before starting the engine.
- Never operate the engine without drive belt guard and brake disk guard securely installed or, with hood or side panels opened or removed. Never run the engine without drive belt installed. Running an unloaded engine such as without drive belt or with track raised, can be dangerous.
- Always engage parking brake before starting the engine.
- Everyone is a beginner the first time he sits behind the controls of a snowmobile regardless of previous experience in driving any other type of vehicle. The safe use of your snowmobile depends on many conditions such as visibility, speed, weather, environment, traffic, vehicle condition and the condition of the driver.
- Basic training is required for the safe operation of any snowmobile. Study your Operator's Guide paying particular attention to cautions and warnings. Join your local snowmobile club: its social activities and trail systems are planned for both fun and safety. Obtain basic instructions from your snowmobile dealer, friend, fellow club member or enroll in your state or provincial safety training program.
- Any new operator must read and understand all safety labels on the snowmobile, the Operator's Guide and watch the *SAFETY DVD* before operating the snowmobile. Only allow a new operator to operate the snowmobile in a restricted flat area, at least until he is completely familiar with its operation. If snowmobile operator's training course is offered in your area, have him enroll.
- The performance of some snowmobiles may significantly exceed that of other snowmobiles you have operated. Therefore, use by novice or inexperienced operators is not recommended.
- Snowmobiles are used in many areas and in many snow conditions. Not all models perform the same in similar conditions. Always consult your snowmobile dealer when selecting the snowmobile model for your particular needs and uses.
- Injury or death may result to the snowmobile operator, passenger or bystander if the snowmobile is used in risky conditions which are beyond the driver's, passenger's or snowmobile's capabilities or intended use.
- BRP recommends the operator has at least 16 years old of age.
- It is very important to inform any operator, regardless of his experience, of the handling characteristics of this snowmobile. The snowmobile configuration, such as ski stance, ski type, suspension type, track length, width and type vary from a model to another. The snowmobile handling is greatly influenced by these characteristics.
- The novice driver should become familiar with the snowmobile through practice on a level area at slow speeds before venturing far afield.
- Know your local laws. Federal, state, provincial and local government agencies have enacted laws and regulations pertaining to the safe use and operation of snowmobiles. It is your responsibility as a snowmobiler to learn and obey these laws and regulations. Respect and observance will result in safer snowmobiling for all. Be aware of the liability property damages and insurance laws regarding your equipment.

- Speeding can be fatal. In many cases, you cannot react or respond quickly enough to the unexpected. Always ride at a speed which is suitable to the trail, weather conditions and your own ability. Know your local rules. Speed limit may be in effect and meant to be observed.
- Always keep right hand side of the trail.
- Always keep a safe distance from other snowmobiles and bystanders.
- Remember, promotional material may show risky maneuvers performed by professional riders under ideal and/or controlled conditions. You should never attempt any such risky maneuvers if they are beyond your level of riding ability.
- Never ride this vehicle under influence of alcohol or drugs. They slow reaction time and impair judgement.
- Your snowmobile is not designed to be operated on public streets, roads or highways.
- Avoid road traveling. If you must do so, and it is permitted, reduce speed. The snowmobile is not designed to operate or turn on paving. When crossing a road, make a full stop, then look carefully in both directions before crossing at a 90° angle. Be wary of parked vehicles.
- Snowmobiling at night can be a delightful experience but because of reduced visibility, be extra cautious. Avoid unfamiliar terrain and be sure your lights are working. Always carry a flashlight and spare light bulbs.
- Never remove any original equipment from your snowmobile. Each vehicle has many built in safety features. Such features include various guards and consoles, plus reflective materials and safety labels.
- Nature is wonderful but don't let it distract your attention from driving. If you want to truly appreciate winter's scenery, stop your snowmobile on the side of the trail so that **you** don't become a hazard to others.
- Fences represent a very serious threat for both you and your snowmobile. Give a wide berth to telephone poles or posts.
- Hidden wires unseen from a distance can cause serious accidents.
- Always wear an approved safety helmet, eye protection and a face shield. This also applies to your passenger.
- Be aware of inherent risks associated with riding off trails, such as avalanche and other natural or man made hazards or obstacles.
- Tailgating another snowmobile should be avoided. If the snowmobile in front of you slows for any reason, its driver and passenger could be harmed through your neglect. Maintain a safe stopping distance between you and the snowmobile in front of you. Depending on the terrain condition, stopping may require a little more space than you think. Play it safe. Be prepared to use evasive driving.
- Venturing out alone with your snowmobile could also be hazardous. You could run out of fuel, have an accident, or damage your snowmobile. Remember, your snowmobile is capable of traveling further in half an hour than you may be able to walk in a day. Use the "buddy system". Always ride with a friend or member of your snowmobile club. Even then, tell someone where you are going and the approximate time you plan to return.

- Meadows sometimes have low areas where water accumulate and freezes over in winter. This ice is usually glare ice. Attempting to turn or brake on this surface could cause your vehicle to spin out of control. Never brake or attempt speeding or turning on glare ice. If you do happen to travel over such a condition, reduce speed by carefully releasing the throttle.
- Never “jump” with your snowmobile.
- When riding in a group, 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.
- Riding in a group is fun and enjoyable but don't show off or overtake others in the group. A less experienced operator might try to do the same as you and fail. When riding with others, limit your abilities to the experience of others.
- In case of an emergency, press down on the engine emergency stop switch, then apply brake.
- Always engage parking brake when vehicle is not in use.
- Never run the engine in a non-ventilated area and/or if vehicle is left unattended.
- Never charge or boost a battery while installed on snowmobile.
- E-TEC engines: Never attempt any fuel system or electrical system maintenance or repair. Any maintenance or repair of these systems must be performed by an authorized Ski-Doo dealer.
- Ensure the path behind is clear of obstacles or bystanders before proceeding in reverse.
- Always remove the tether cord cap from engine cut-off switch when vehicle is not in operation in order to prevent accidental engine starting, to avoid unauthorized use by children or others or theft.
- NEVER stand behind or near a rotating track. Debris could be projected causing severe injuries. To remove packed snow or ice, stop engine, tilt and hold vehicle on its side and use screwdriver from tool kit.
- Do not stud the track unless it has been approved for studs. At speed, a studded track that has not been approved for studs could tear and separate from vehicle. See an authorized Ski-Doo dealer for current specific studding availability and applications.
- You may stud the track on this vehicle model. However, you MUST only use the BRP approved type stud for use on Ski-Doo snowmobiles. DO NOT EVER use conventional studs because the track thickness is thinner than our standard tracks. The stud could tear off of track and separate from vehicle.
- Never ride as a passenger unless the snowmobile is equipped with a passenger seat and passenger handholds or holding strap. Sit only on the designated passenger seat.
- Always wear an approved helmet and follow the same dressing guidelines as those recommended for the operator and described in this guide.
- Make sure that you are able to achieve a stable stance, both feet resting positively on the footboards of footrests with good grip, and that you are able to hold on firmly to the handholds.
- Once underway, if you feel uncomfortable or insecure for any reason, don't wait, tell the driver to slow down or stop.

RIDING THE VEHICLE

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

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

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

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

Pre-Ride Inspection

WARNING

The pre-operation check is very important prior to operating the vehicle. Always check the proper operation of critical controls, safety features and mechanical components before starting.

Before Starting the Engine

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

3. Verify that skis and steering operate freely. Check corresponding action of skis versus handlebar.
4. Check fuel level. Replenish if necessary.
5. Check injection oil level (E-TEC models). Replenish if necessary.
6. Check coolant and brake fluid levels. In case of a low level, contact an authorized Ski-Doo dealer.
7. All storage compartments must be properly latched and they must not contain any heavy or breakable objects. Hood and side panels must be also properly latched.
8. Activate the throttle control lever several times to check that it operates easily and smoothly. It must return to idle position when released.
9. Check track condition. Remove snow or ice if necessary.
10. Check rear suspension slider shoes condition.
11. Activate the brake lever and make sure the brake fully applies before the brake control lever touches the handlebar grip. It must return to the rest position when released.
12. Apply parking brake and check if it operates properly. Leave parking brake applied.

After Engine is Started

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

1. Check headlights high beam and low beam, taillight, stop light and pilot lamps operation.

NOTE: You may need to detach tether cord from your clothes to check lights. In such a case, attach cord as soon as you get back at the controls of the snowmobile.

2. Check the engine cut-off switch (by pulling tether cord cap) and emergency engine stop switch operation.
3. Release parking brake.
4. Refer to the *VEHICLE WARM UP* section and follow instructions.

Pre-ride Check List

ITEM	OPERATION	✓
Body including seat, footrests, lights, controls and instruments	Check condition and remove snow or ice.	
Air silencer prefilter	Check condition and remove snow or ice.	
Steering system	Check for free movement and proper action.	
Skis and runners	Check condition.	
Fuel	Check level and replenish if necessary.	
Engine oil (1200 4-TEC)	Refer to <i>ENGINE OIL (1200 4-TEC)</i> in <i>MAINTENANCE PROCEDURES</i> .	
Injection oil (E-TEC models)	Check level and replenish if necessary.	
Coolant	Check level. If low, contact an authorized Ski-Doo dealer.	
Brake Fluid	Check level. A low fluid level indicates a leak or worn brake pads. Contact an authorized Ski-Doo dealer.	
Storage compartment	Check for proper latching and no heavy or breakable objects.	
Throttle lever	Check for proper action.	
Track	Check condition and remove snow or ice. For studded tracks, see <i>INSPECTION</i> in the <i>TRACTION ENHANCING PRODUCTS</i> subsection.	
Rear suspension slider shoes	Check condition	
Brake lever	Check for proper operation.	
Parking device	Check for proper operation.	
Emergency engine stop switch and engine cut-off switch	Check for proper action. Tether cord must be attached to driver clothing eyelet.	
Lights	Check for proper operation.	

How to Ride**Riding Gear**

Proper snowmobile clothing should be worn. It should be comfortable and not too tight. Always check the weather forecast before going on a ride. Dress for the coldest weather

expected. Thermal underwear next to the skin also provides a good insulation.

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

does not have a built-in colored lens, carry colored lens, carry colored lens goggles.

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

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

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

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

Carry colored lens goggles.

What to Bring

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

- First aid kit
- Mobile phone
- Spare spark plugs and wrench
- Friction tape
- Spare drive belt
- Spare light bulbs
- Provided tool kit (including at least pliers, screwdriver, adjustable wrench)
- Adjustable wrench
- Knife
- Flashlight
- Trail map.

Include other items such as additional tools, drinking water and food depending on the length and time of your ride.

Rider Position (Forward Operation)

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

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

WARNING

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

Sitting

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



Posting

A semi-sitting position with the body off the seat and the feet under the body in a sort of squatting posture, thus al-

lowing 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.



Rider Position (Reverse Operation)

We recommend sitting on your snowmobile when operating in reverse.

Avoid standing up. Your weight could shift forward against throttle lever while operating in reverse, causing an unexpected acceleration.

⚠ WARNING

Unexpected acceleration when snowmobile operates in reverse can cause a loss of control.

Carrying a Passenger

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

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

⚠ WARNING

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

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

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

⚠ WARNING

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

Riding with passengers on board is different than riding alone. The operator has the benefit of knowing what will be the next maneuver and is able to

prepare himself accordingly. The operator also benefits from the support of his grip on the handlebar. In contrast, the passengers have to rely on the operator's careful and safe operation of the vehicle. In addition, "body english" is limited with passengers, and the operator can sometimes see more of the trail ahead than the passengers. Therefore, smooth starting and stopping are required with passengers, and the operator must slow down. The operator must also warn passengers of side hills, bumps, branches, etc. An unforeseen bump can leave you passenger-less. Remind your passengers to lean into the turn with you, without causing the vehicle to topple. Be extremely careful, go more slowly and check the passengers frequently.

⚠ WARNING

When riding with a passenger:

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

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

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

Terrain/Riding Variations**Groomed Trail**

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

Ungroomed Trail

Unless there has been a fresh snowfall you can expect “washboard” and snowdrift conditions. Taken at excessive speeds, such conditions can be physically harmful. Slow down. Hold on the handlebar and assume a posting position. Feet should be under the body assuming a crouched position to absorb any jarring effect. On longer stretches of “washboard” trails, the kneeling position of one knee on the seat can be adopted. This provides a certain amount of comfort, while at the same time keeps the body loose and capable of vehicle control. Beware of hidden rocks or tree stumps partially hidden by a recent snowfall.

Deep Snow

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

Frozen Water

Traveling frozen lakes and rivers can be fatal. Avoid waterways. If you are in an unfamiliar area, ask the local authorities or residents about the ice condi-

tion, 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.

Avalanche Hazard

When riding on mountainous terrain, you should be aware of the risk of avalanches. Avalanches vary in size and shapes and generally occur in steep terrain and on unstable snow.

New snow, animals, people, wind and snowmobiles can all trigger an avalanche. Avoid high marking or traversing steep terrain when avalanche conditions are possible. When in unstable snow conditions, travel should be restricted to lower angle slopes. Wind formed cornices should be avoided. Staying off un-

stable conditions is the key to safe mountain riding. Probably most important is to be aware of the conditions and dangers on a daily basis when in the mountains. Check local avalanche forecasts and threats each day before heading out to ride and heed forecasters advice.

You should always carry a snow shovel, probe and avalanche beacon while riding on mountains. We recommend that all mountain riders take a local avalanche safety training course to become more familiar with snow conditions and learn how to properly use their equipment.

Here are some web sites that can help you finding important information:

- US: www.avalanche.org
- Europe: www.avalanches.org
- Canada: www.avalanche.ca

Slush

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

Fog or Whiteouts

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

Unfamiliar Territory

Whenever you enter an area that is new to you, drive with extreme caution. Go slow enough to recognize potential hazards such as fences or fence posts, brooks crossing your

path, rocks, sudden dips, guy wires and countless other obstacles which could result in a termination of your snowmobile ride. Even when following existing tracks, be cautious. Travel at a speed so you can see what is around the next bend or over the top of the hill.

Bright Sunshine

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

Unseen Obstruction

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

Hidden Wires

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

Obstacles and Jumping

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

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

Turning

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

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



Road Crossing

In some cases, you will be approaching the road from a ditch or snowbank. Choose a place where you know you can climb without difficulty. Use the standing position and proceed with only as much speed needed to crest

the bank. Stop completely at the top of the bank and wait for all traffic to clear. Judge the drop to the roadway. Cross the road at a 90° angle. If you encounter another snowbank on the opposite side, position your feet near the rear of the vehicle. Remember, your snowmobile is not designed to operate on bare pavement and steering on this type of surface is more difficult.

Railroad Crossing

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

Night Rides

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

Safari Riding

Before starting out, designate a "trail boss" to lead the party and another person to follow-up at the end of the party. Ensure that all members of the party are aware of the proposed route and destination. Make certain that you are carrying all necessary tools and equipment and that you have sufficient fuel to complete the trip. Never overtake

the trail boss or, for that matter, any other snowmobile. Use down-the-line hand signals to indicate hazards or intent of direction change. Assist others whenever necessary.

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

Signals

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

Trail Stops

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

Trails and Signs

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

Environment

Wildlife compliments your snowmobiling day. Snowmobile tracks provide firm ground over which animals can travel from area to area. Do not violate this privilege by chasing or harassing wildlife. Fatigue and exhaustion can lead to animal's death. Avoid areas posted for the protection or feeding of wildlife.

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

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

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

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

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

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

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

Light Treading refers to more than the thread of our tracks. It's a statement of concern, respect and willingness

to take the lead and take action. It applies to the environment in general, its proper care and maintenance, its natural inhabitants and all enthusiasts and the public at large who enjoy the great outdoors. With this theme, we invite all snowmobilers to remember that respecting the environment is not only critical to the future of our industry but to future generations.

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

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

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

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

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

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

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

Obtain permission to travel across private land. Respect the rights of landowners and other people's privacy. Remember, snowmobile technology has lowered the noise factor

considerably, but you still shouldn't rev your engines where quiet "is the order of the day".

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

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

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

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

TRACTION ENHANCING PRODUCTS

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

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

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

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

Manoeuvrability

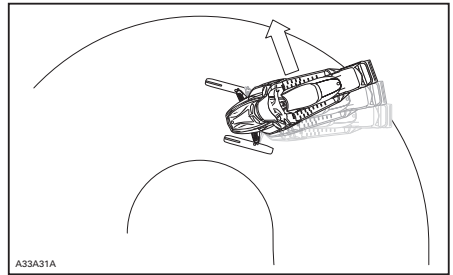
Using traction enhancing products such as, more aggressive ski carbide runners and/or studs makes the snowmobile grip the ground better at both the front and at the rear. The use of carbide runners is therefore required to give the skis a better grip, so that the front and rear of the snowmobile are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

WARNING

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

Oversteering

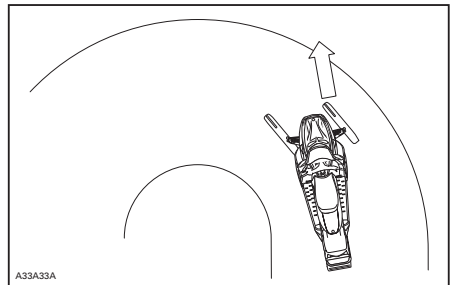
In certain conditions, using more aggressive ski carbide runners without studs on the rear track could make the snowmobile prone to oversteering, see illustration.



OVERSTEERING

Understeering

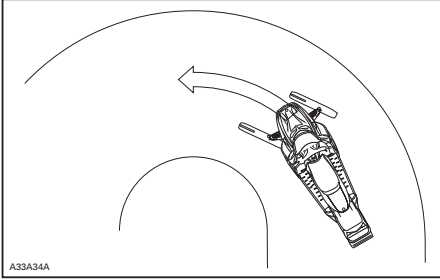
In certain conditions, the use of studs on the track could make the snowmobile prone to understeering if the skis are not equipped with more aggressive ski carbide runners, see illustration.



UNDERSTEERING

Controlled Driving

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



CONTROLLED DRIVING

Acceleration

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

⚠ WARNING

To prevent surprises that could lead to a loss of control of the snowmobile:

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

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

Braking

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

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

Important Safety Rules

⚠ WARNING

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

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

Traction Enhancing Products Effect on the Snowmobile Durability

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

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

⚠ WARNING

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

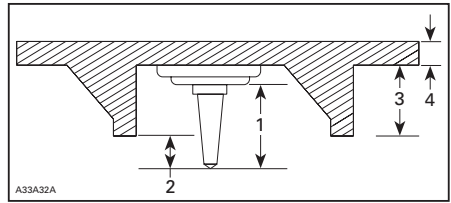
NOTICE Ask your dealer for the appropriate tunnel protectors model and kit number required for your snowmobile.

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

Installation of Studs on BRP Approved Tracks

⚠ WARNING

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

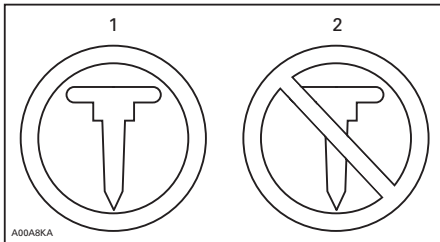


INSTALLATION OF STUDS

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

⚠ WARNING

- See an authorized Ski-Doo dealer for current specific stud-
ding availability and applica-
tions.
- Always consult the traction
product manufacturer's instal-
lation instructions and recom-
mendations before having your
dealer install studs and runners.



TRACK SYMBOLS

1. Approved
2. NOT Approved

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

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

⚠ WARNING

- You **MUST** only use the BRP approved stud type on these Ski-Doo snowmobiles. **DO NOT EVER** use conventional stud because, the track thickness is thinner than our standard tracks and the stud could tear off of track and separate from vehicle.
- 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 (1.378 in) or more.
- The number of studs installed must always perfectly match the pattern of molded bulges in the track. Installing an incorrect number of studs can increase the risk of track tearing or severing.
- It is very important to follow the torque specifications for the stud bolts. Improper installation of studs can increase the risk of track tearing or severing.

- Missing track guide(s)
- Loose studs.

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

⚠ WARNING

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

Inspection of a Studded Track

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

Look for any defects, such as:

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

IMPORTANT ON-PRODUCT LABELS

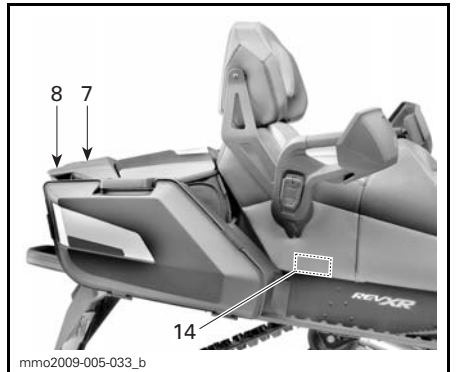
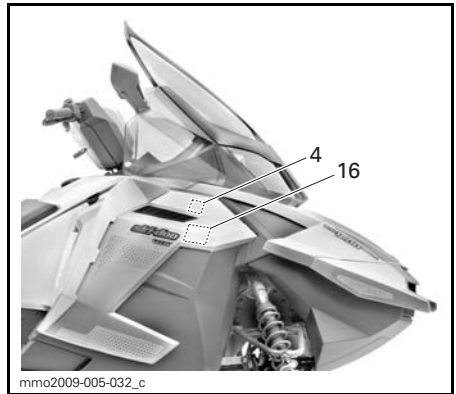
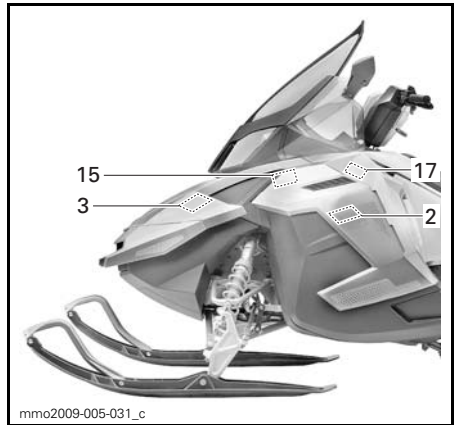
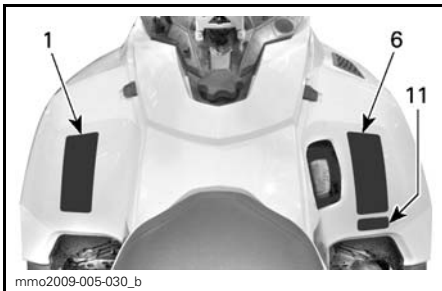
Hang Tag(s)

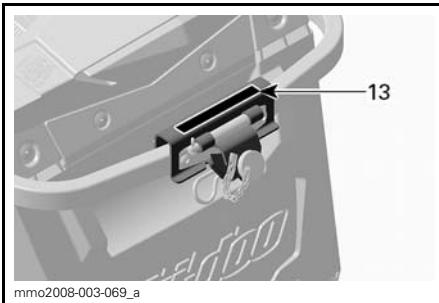
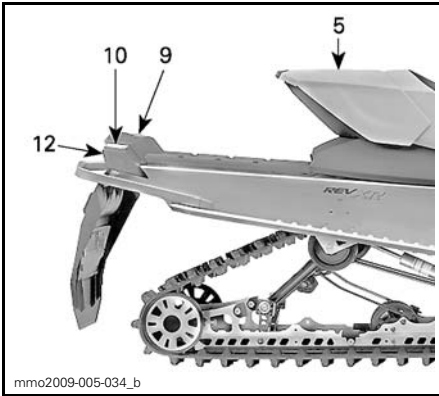


Vehicle Safety Labels

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

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





⚠ WARNING

- Read and understand all safety labels, operator's guide and watch your safety DVD before operation. Operator's guide is located either in the passenger seat or under the driver's seat. To access guide under driver's seat, pull front of seat cushion then pull tab to unlock seat (if applicable, passenger's seat needs to be removed first).
- Get familiar with your vehicle. Inexperienced riders may overlook risks and be surprised by vehicle's specific behavior and terrain conditions. Ride slowly.
- Excessive speed and reckless driving can kill! ALWAYS adjust your speed according to snow conditions and circumstances.
- Steering control and braking ability may be reduced on hard-pack snow, ice or roads. Reduce speed & allow more space to stop or turn.
- Respect laws on minimum operator age. Manufacturer recommends a minimum operating age of 16 years old.
- Never open side panels or hood while engine is running or if vehicle is in motion. Ensure to remove DESS key before opening those.

BEFORE STARTING :

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

AFTER STARTING :

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

516004561A

516004561

LABEL 1

⚠ WARNING

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

516004595

516004595

LABEL 2

⚠ CAUTION

Beware of HOT parts!

516004566

516004566

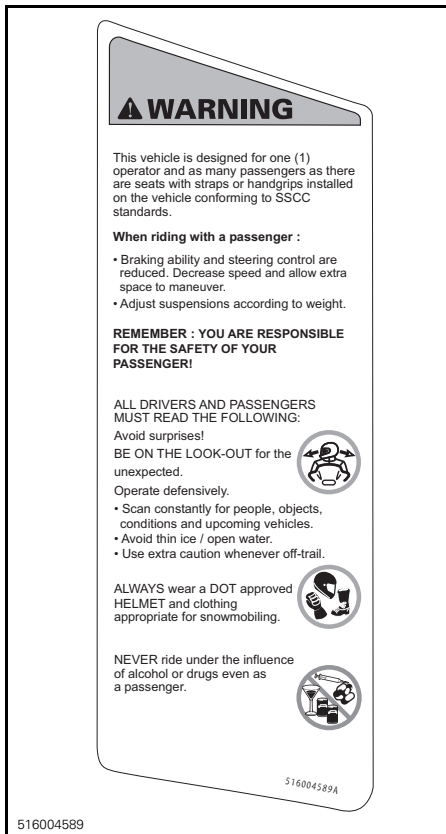
LABEL 3



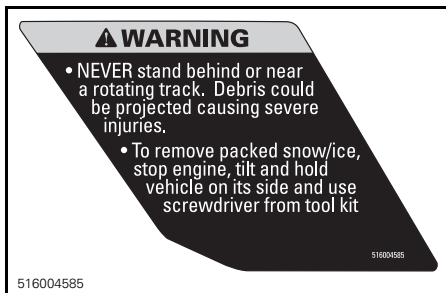
LABEL 4



LABEL 5 - GSX™ AND MXZ



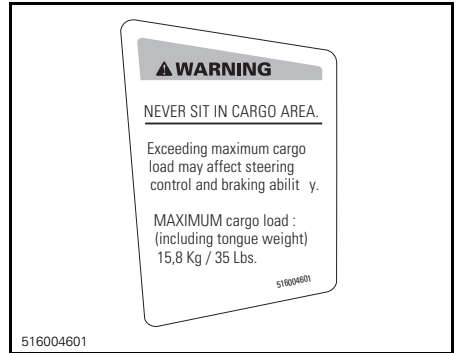
LABEL 6



INSTRUCTION 7 - GRAND TOURING



INSTRUCTION 8 - GRAND TOURING



LABEL 10



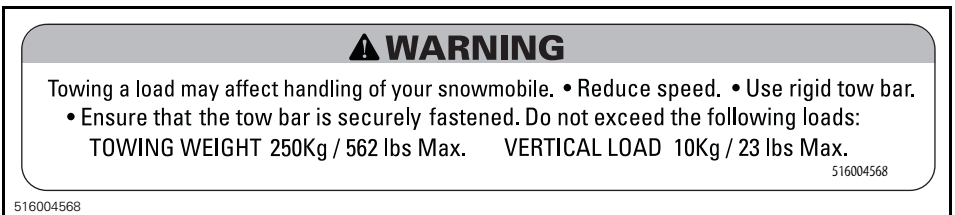
LABEL 9



LABEL 11 - EUROPEAN MODELS



LABEL 12 - APPLICABLE MODELS



LABEL 13

⚠ WARNING

Before riding the snowmobile make sure to properly install and lock the seat(s) into place.

516004587A


INSTRUCTION 14 - DUAL PASSENGER MODELS

⚠ WARNING

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

516003940

LABEL 15 - E-TEC ONLY

<p>⚠ WARNING</p> <p>Capacitor May Spark If Shorted.</p> <ul style="list-style-type: none"> - Spark can ignite fuel vapors. - Keep objects away from poles. - When removing from vehicle, always discharge properly. 	<p>CAPACITOR</p>  <p>516 004570</p>
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516004570

LABEL 16- E-TEC ONLY

⚠ CAUTION

ENGINE OIL AND CERTAIN COMPONENTS IN THE ENGINE COMPARTMENT MAY BE HOT. DIRECT CONTACT MAY RESULT IN SKIN BURN.

CHECKING ENGINE OIL LEVEL

- Make sure engine is at operating temperature.
- Vehicle must be level to perform verification.
- Let engine running at idle for at least 30 seconds.
- Stop engine and wait at least 30 seconds.
- Check oil level using the dipstick.

- The engine of this snowmobile has been developed and validated using the BRP XPS™ Synthetic 4-stroke oil (293 600 112). BRP strongly recommends the use of its XPS™ Synthetic 4-stroke oil at all times. Damages caused by oil which is not suitable for the engine will not be covered by the BRP limited warranty.

516004718

LABEL 17 - 1200 4-TEC MODELS ONLY

⚠ WARNING

- This shock absorber is pressurized.
- An explosion may occur if heated or punctured.
- Do not disassemble.

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ON GAS SHOCK ABSORBERS

⚠ AVERTISSEMENT

Ce garde doit TOUJOURS être en place lorsque le moteur fonctionne.

⚠ WARNING

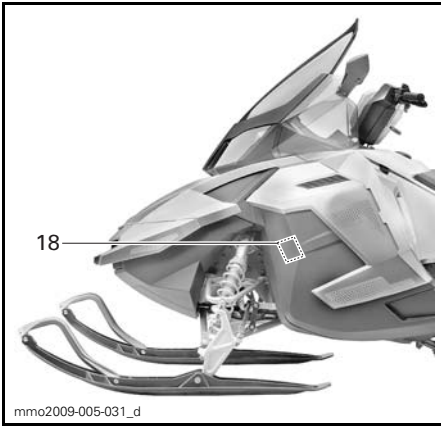
This guard must ALWAYS be in place when engine is running.

516 004 552

ON BRAKE DISC GUARD

Compliance Labels

EPA Compliance Label



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

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

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

SEE OPERATOR'S GUIDE FOR MAINTENANCE SPECIFICATIONS
 VOIR GUIDE DU CONDUCTEUR POUR LES SPÉCIFICATIONS D'ENTRETIENS

BOMBARDIER RECREATIONAL PRODUCTS INC.

mmo2007-009-070

INSTRUCTION 18

SSCC Label

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

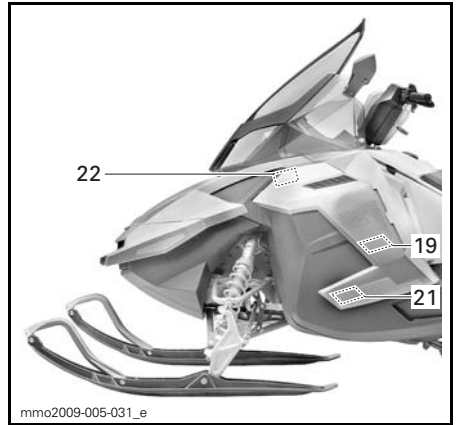
The following label shows that an independent testing laboratory has verified compliance with the SSCC safety standards.

CE MODELE A ÉTÉ ÉVALUÉ PAR UN LABORATOIRE D'ESSAIS INDÉPENDANT ET SATISFAIT TOUTES LES NORMES DE SÉCURITÉ DU SSCC EN VIGUEUR À LA DATE DE FABRICATION. PARRAINÉ PAR LE COMITÉ DE SÉCURITÉ DE CERTIFICATION DE LA MOTONEIGE, INC.	CERTIFIED CERTIFIÉ	THIS MODEL HAS BEEN EVALUATED BY AN INDEPENDENT TESTING LABORATORY AND IT MEETS ALL SSCC SAFETY STANDARDS IN EFFECT ON THE DATE OF ITS MANUFACTURE. SPONSORED BY THE SNOWMOBILE SAFETY AND CERTIFICATION COMMITTEE, INC.
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A00A1MA

ON TUNNEL

Technical Information Label



NOTICE

- 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.

516004572

516004572

LABEL 19

NOTICE

The engine of this snowmobile has been developed and validated using the BRP XPS™ Synthetic Blend 2-stroke oil (293 600 101). BRP strongly recommends the use of its XPS™ Synthetic Blend 2-stroke oil at all times. Damages caused by oil which is not suitable for the engine will not be covered by the BRP limited warranty.

516004719

516004719

LABEL 20 - E-TEC MODELS

NOTICE

Drive pulley bolt recommended torque
85-92 lbf-ft / 115-125 N·m

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

516004542

516004542

LABEL 21



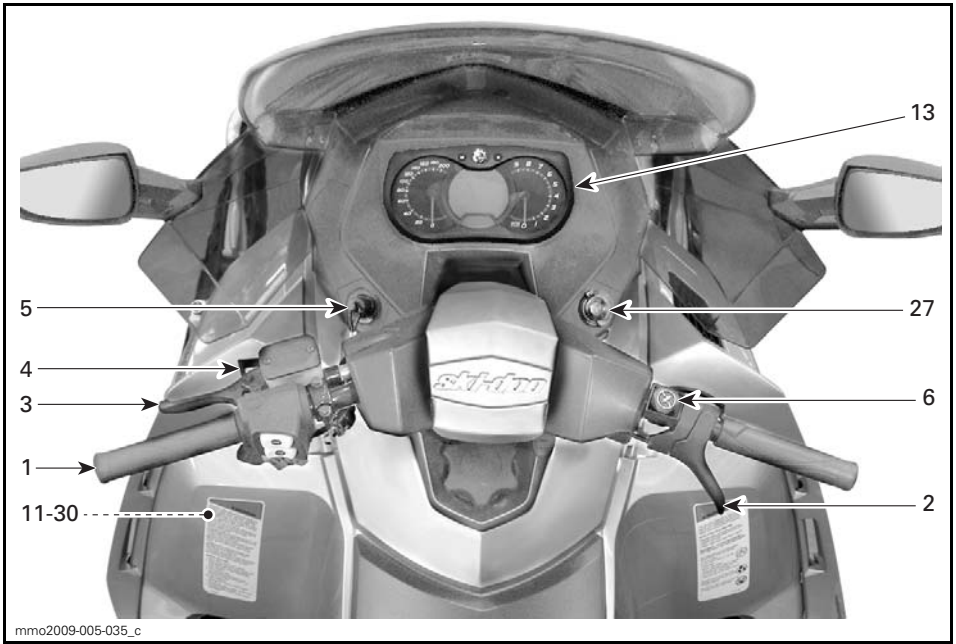
mno2008-008-024

INSTRUCTION 22 - 600 HO E-TEC MODEL

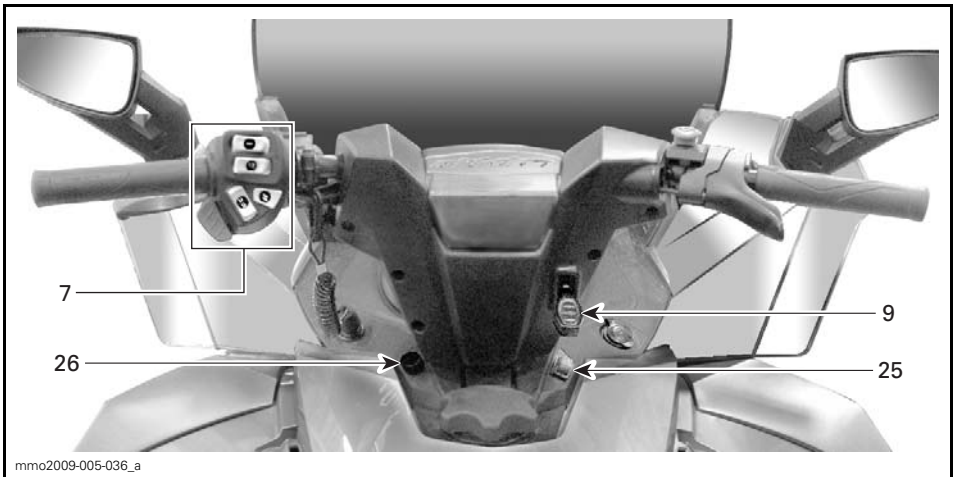
VEHICLE INFORMATION

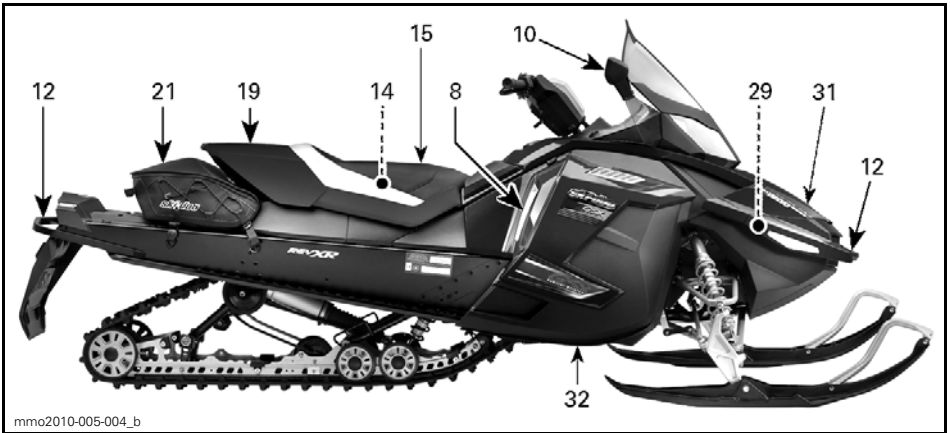
CONTROLS, INSTRUMENTS AND EQUIPMENT

NOTE: Controls, instruments or equipment may vary according to the model.

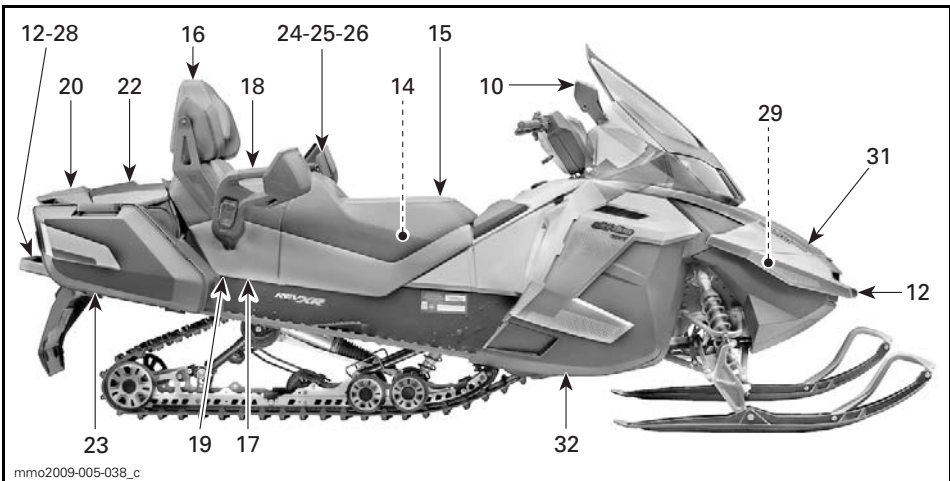


TYPICAL





TYPICAL



1) Handlebar

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

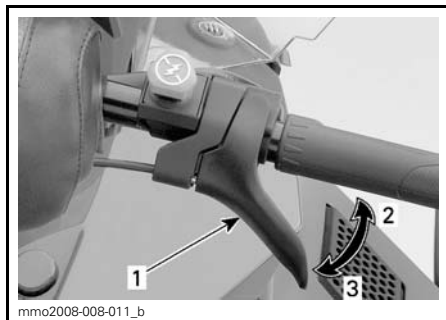
⚠ WARNING

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

2) Throttle Lever

Throttle lever is located on the RH side of handlebar.

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



TYPICAL

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

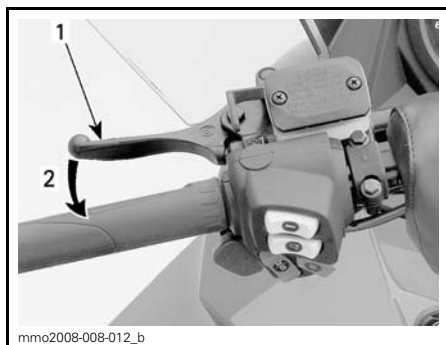
⚠ WARNING

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

3) Brake Lever

Brake lever is located on the LH side of handlebar.

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



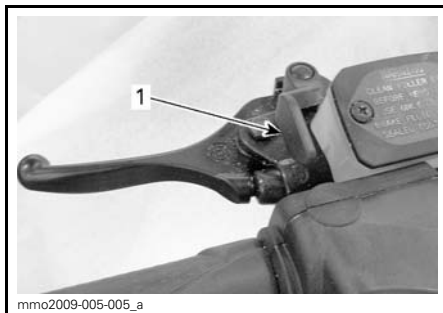
TYPICAL

1. Brake lever
2. To apply brake

4) Parking Brake Lever

Parking brake lever is located on the LH side of handlebar.

Parking brake should be used whenever snowmobile is parked.



TYPICAL

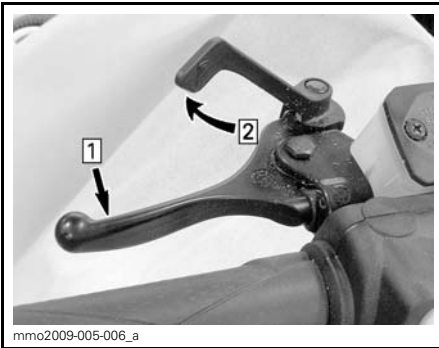
1. Parking brake lever

⚠ WARNING

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

To Engage Parking Brake

Apply and hold brake, then lock brake lever using the parking brake lever as shown.



TYPICAL — ENGAGE MECHANISM

- Step 1: Apply and hold brake
- Step 2: Lock brake lever using parking brake lever

To Release Parking Brake

Squeeze brake lever. Locking lever will automatically return to its original position.

Always release parking brake before riding.

5) Engine Cut-off Switch

The engine cut-off switch (tether cord) is located to on the LH side of console.

The tether cord cap must be securely snapped on the engine cut-off switch to allow vehicle operation.

Pulling the tether cord cap from the switch shuts the engine off.

⚠ WARNING

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

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

D.E.S.S. stands for Digitally Encoded Security System.

The tether cord cap contains an electronic chip which features a unique permanently memorized digital code (D.E.S.S. key).

Your authorized Ski-Doo dealer has programmed the D.E.S.S. of your snowmobile to recognize the D.E.S.S. key to allow vehicle operation.

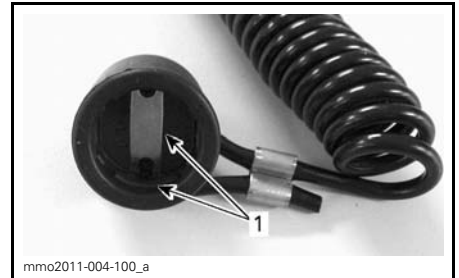
NOTE: Two short beeps after engine is started means the D.E.S.S. key is recognized.

If another tether cord is used without programming the D.E.S.S., the engine will start but cannot be driven.

Make sure the tether cord cap is free of dirt or snow.

D.E.S.S. KEY

- 1. Free of dirt or snow



TETHER CORD CAP

- 1. Free of dirt or snow

D.E.S.S. Flexibility

The D.E.S.S. of your snowmobile can be programmed by your authorized Ski-Doo dealer to accept up to 8 different keys.

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

6) Emergency Engine Stop Switch

The emergency engine stop switch is located on the RH side of handlebar.

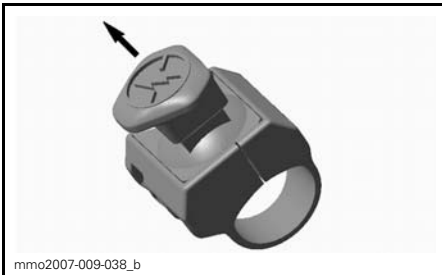
To stop the engine in an emergency, select OFF position (down) and simultaneously apply the brake.



mmo2007-009-038_a

OFF POSITION

To allow engine starting, the switch must be in the ON position (UP).



mmo2007-009-038_b

ON POSITION

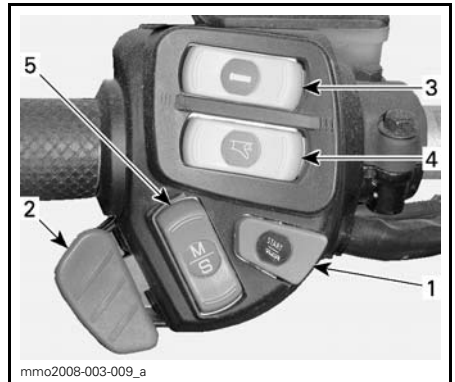
All operators of the snowmobile should familiarize themselves with the function of the emergency engine stop switch by using it several times on first outing and whenever stopping the engine thereafter. This engine stopping procedure will become a reflex and will prepare operators for emergency situations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

⚠ WARNING

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

7) Multifunction Switch

Multifunction switch is located on the LH side of handlebar.



mmo2008-003-009_a

TYPICAL

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

Start/Electronic Reverse Button

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

Electronic Reverse Models

Once engine is started, press to engage the electronic reverse. Refer to *OPERATING IN REVERSE* in *OPERATING INSTRUCTIONS* for details.

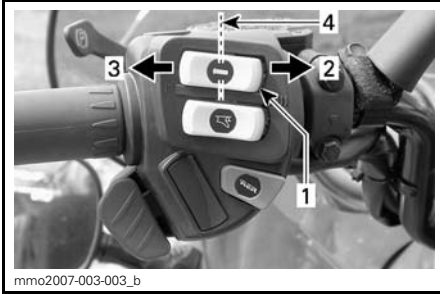
Headlights Dimmer Switch

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

Heated Grips Switch

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

Models with Analog/Digital Gauge



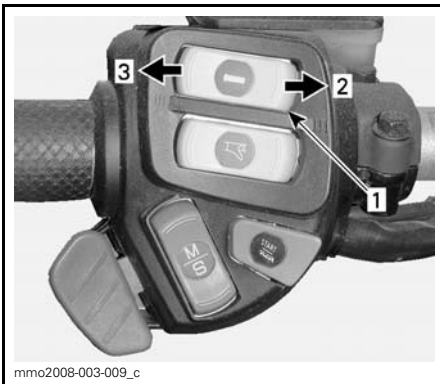
TYPICAL

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

Models with Multifunction Analog/Digital Gauge

NOTE: Heated grips are enabled above 1900 engine RPM.

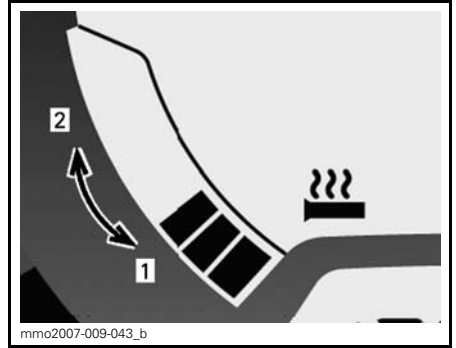
Depress switch as required to select heating intensity to keep your hands at a comfortable temperature.



VARIABLE INTENSITY

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

The heating intensity is displayed via the multifunction display.



HEATING INTENSITY DISPLAY

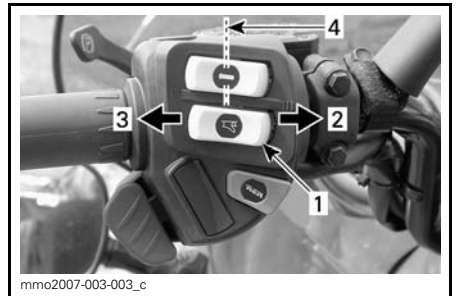
1. Less heat
2. More heat

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

Heated Throttle Lever Switch

Models with Analog/Digital Gauge

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



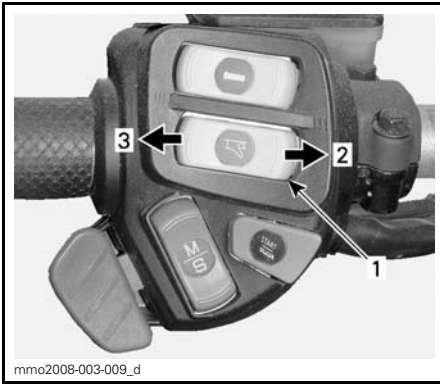
TYPICAL

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

Models with Multifunction Analog/Digital Gauge

NOTE: Heated grips are enabled above 1900 engine RPM.

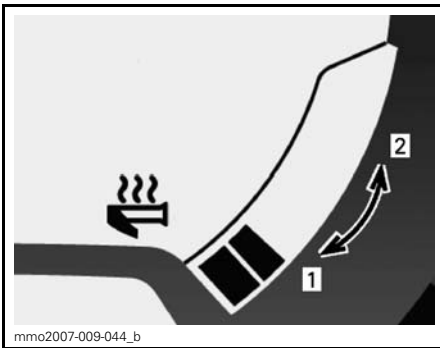
Depress switch as required to select heating intensity to keep your thumb at a comfortable temperature.



VARIABLE INTENSITY

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

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



HEATING INTENSITY DISPLAY

1. Less heat
2. More heat

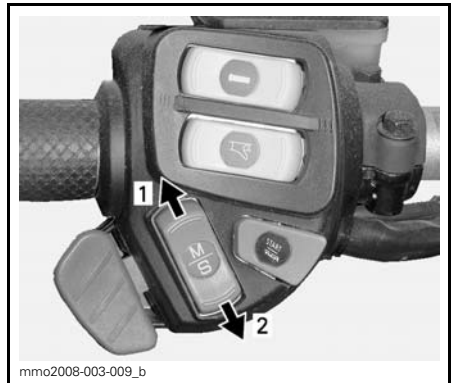
Heated throttle lever will be in OFF position when there are no bars displayed on the gauge.

Mode/Set Button

Models with Multifunction Analog/Digital Gauge

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

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



MULTIFUNCTION GAUGE

1. MODE function
2. SET function

8) Shift Lever

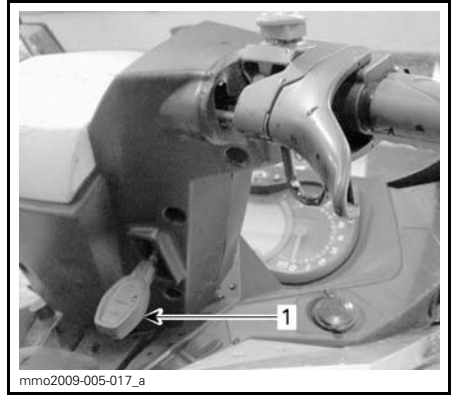
Manual Shift Models

Use this lever to shift in forward or reverse.



mmo2009-005-015_a

1. Reverse shift lever



mmo2009-005-017_a

1. Tilt steering lock lever



mmo2009-005-016_a

PULL TO ENGAGE REVERSE GEAR

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

9) Tilt Steering

On the above mentioned models, the handlebar height is adjustable. To adjust, proceed as follows:

1. Pull up the lock lever.

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

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

10) Mirrors

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

⚠ WARNING

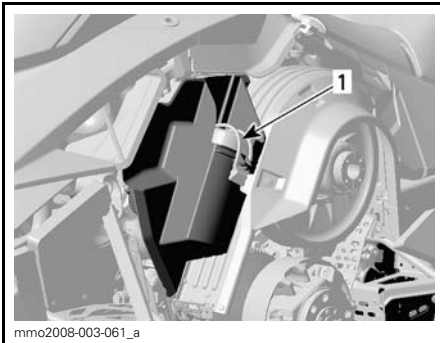
Adjust with vehicle at rest in a safe place.

11) Tool Kit

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

The tool kit support is located in engine compartment on pulley guard.

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

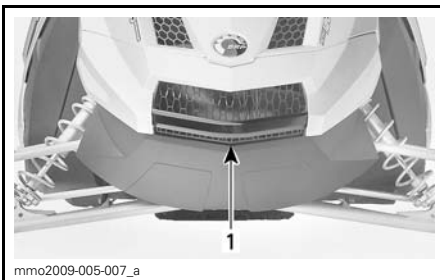


TYPICAL
1. Tool kit

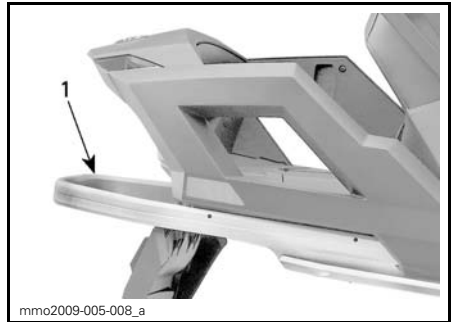
12) Grab Handle/Bumper

To be used whenever snowmobile requires manual lifting.

CAUTION Use proper lifting techniques, notably using your legs force. Do not attempt to lift either end of the vehicle if it is above your limits. Use appropriate lifting device or have assistance to share lifting stress if possible.



FRONT
1. Grab handle/bumper



REAR
1. Grab handle/bumper

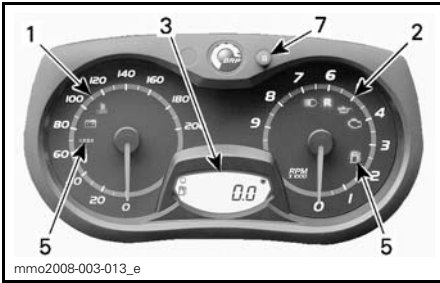
NOTICE Do not use skis to pull or lift snowmobile.

13) Gauge

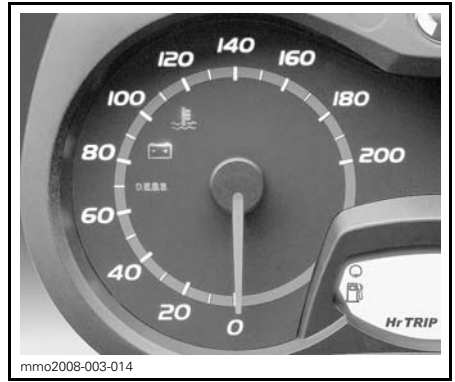
NOTE: Some features are not applicable to all models or may be available as an option.

WARNING

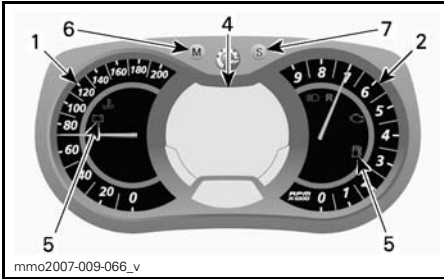
Selecting various numerical displays, system modes of operation or changing settings should only be carried out with the vehicle stopped. Selecting these various functions while operating the vehicle at speed is not recommended as it deters your attention from situational awareness.



ANALOG/DIGITAL GAUGE



LH PORTION OF GAUGE



MULTIFUNCTION ANALOG/DIGITAL GAUGE

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

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

Speedometer

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



RH PORTION OF GAUGE

Pilot Lamps and Messages







TYPICAL — PILOT LAMPS

See table below for usual pilot lamps information.

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

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

PILOT LAMP(S)		BEEPER	MESSAGE DISPLAY (X AND LIMITED PACKAGE ONLY)	DESCRIPTION
	ON	4 short beeps every 5 minutes	LOW OIL	Two stroke engine: Injection oil level is low. Stop vehicle in a safe place then, replenish injection oil reservoir.
				Four stroke engines: See <i>MONITORING SYSTEMS</i>
	ON	—	—	Low fuel level. Replenish fuel tank as soon as possible.
	Blinking	Long beeps repeating slowly	REVERSE	Reverse is selected.
	ON	—	—	High beam headlights are selected.
—		—	WARM UP	Engine in warm-up mode. The engine's RPM is limited until a suitable temperature is reached (up to 10 minutes when driving). Warm-up mode may occur after a restart in very cold weather.

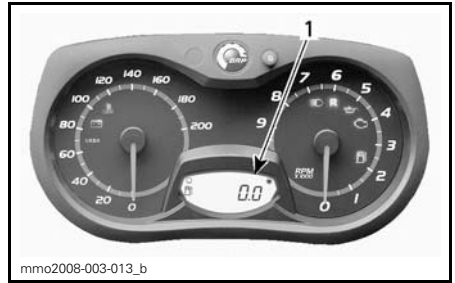
MODE (M) Button

Multifunction Analog/Digital Gauge Only

Button used to navigate in gauge multi-function display.

In order to memorize settings, engine must be running.

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



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ANALOG/DIGITAL GAUGE

1. Digital display

SET (S) Button

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

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

Digital Display

Analog/Digital Gauge Only

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

⚠ WARNING

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

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

DISPLAY FEATURES

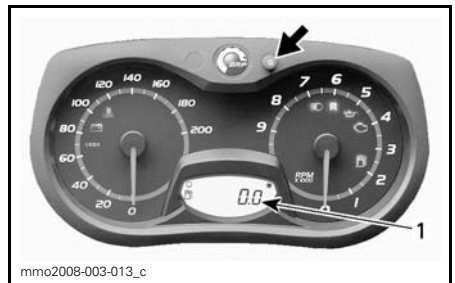
FUNCTIONS	REFER TO TOPICS
Odometer	A
Trip meter "A" or "B"	B
Trip hour meter	C
Fuel level	D

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

A) Odometer

Records the total distance travelled.

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



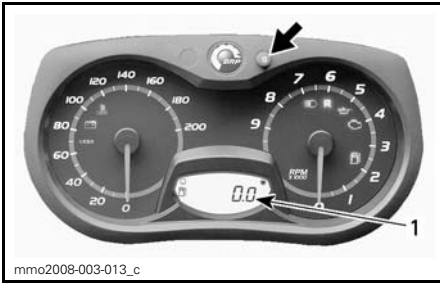
mmo2008-003-013_c

1. Odometer mode

B) Trip Meter "A" or "B"

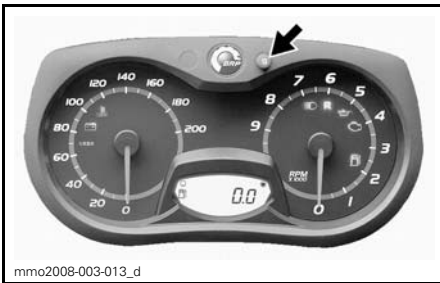
Trip meters records distance travelled since it has been reset.

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



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

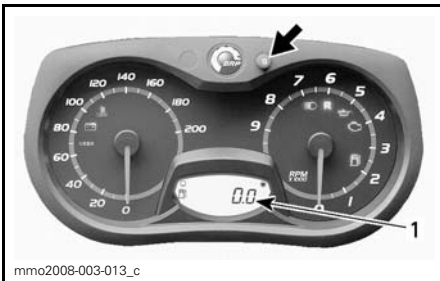
Press and hold the SET (S) button to re-set.



C) Trip Hour Meter

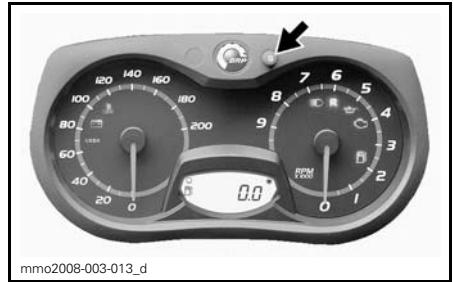
Records vehicle running time when the electrical system is activated since it has been reset.

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



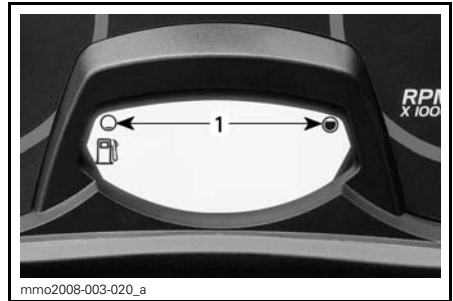
1. Trip hour meter (HrTRIP) mode

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



D) Fuel Level

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



FUEL LEVEL

1. Operating range

Multifunction Digital Display

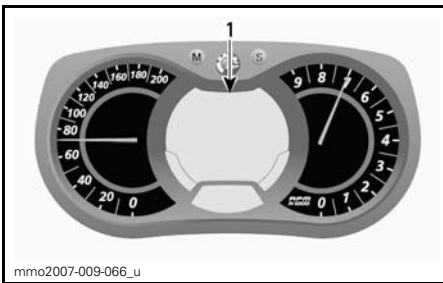
Multifunction Analog/Digital Gauge Only

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

⚠ WARNING

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

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



MULTIFUNCTION ANALOG/DIGITAL GAUGE

1. Multifunction display

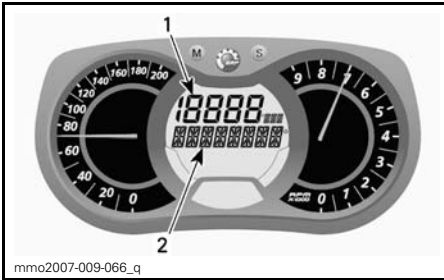
DISPLAY FEATURES

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

A) Speedometer

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

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



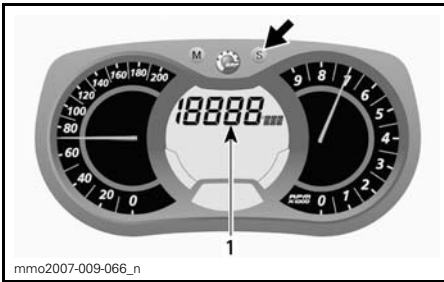
MULTIFUNCTION DISPLAY

1. Display 1
2. Display 2

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

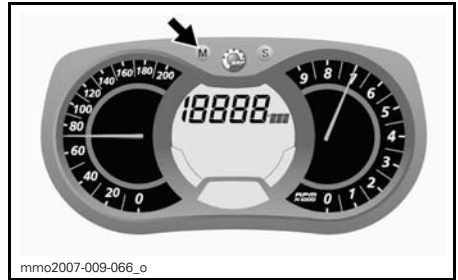


While display is flashing, press the SET (S) button to select speedometer mode.



1. Speedometer mode

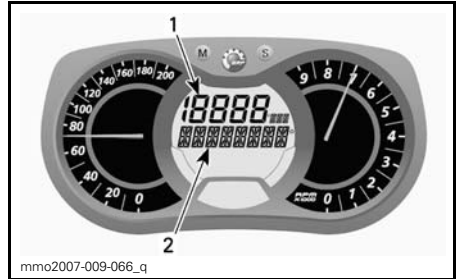
Press the MODE (M) button to confirm selection or wait 5 seconds.



B) Tachometer (RPM)

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

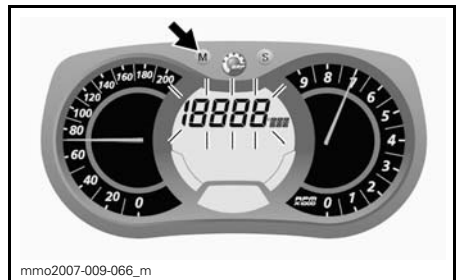
Engine RPM can be displayed on display 1 or display 2.



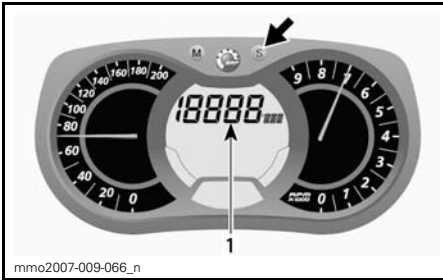
MULTIFUNCTION DISPLAY

1. Display 1
2. Display 2

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

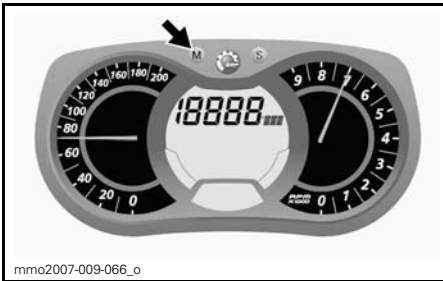


While display is flashing, press SET (S) button to select RPM mode.



1. RPM mode

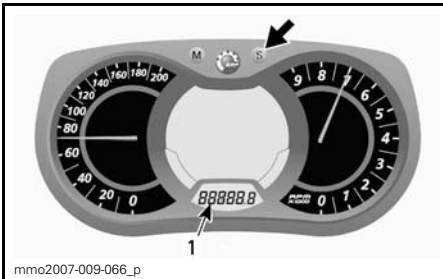
Press the MODE (M) button to confirm selection or wait 5 seconds.



C) Odometer

Records the total distance travelled.

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

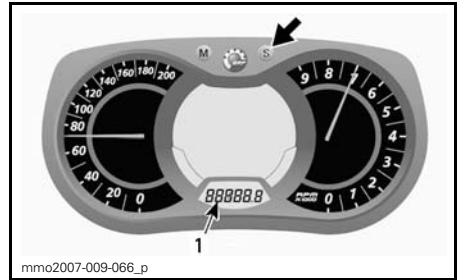


1. Odometer (km/mi) mode

D) Trip Meter "A" or "B"

Trip meters records distance travelled since it has been reset.

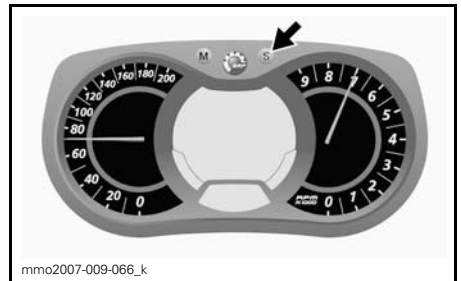
Press the SET (S) button to select trip meter (TRIP A/TRIP B) mode.



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

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

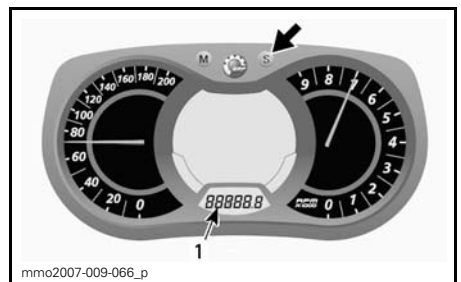
NOTE: On E-TEC models, resetting TRIP B mode will also reset TOTAL FUEL CONSUMPTION.



E) Trip Hour Meter

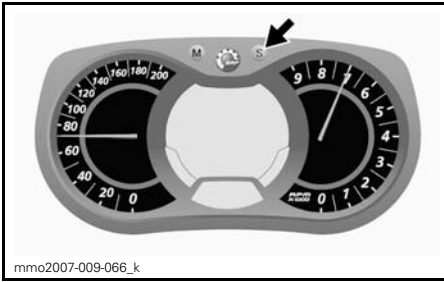
Records vehicle running time when the electrical system is activated since it has been reset.

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



1. Trip hour meter (HrTRIP) mode

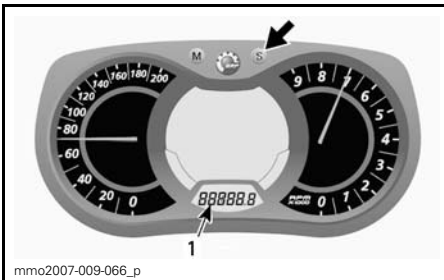
Press and hold the SET (S) button to re-set.



F) Clock

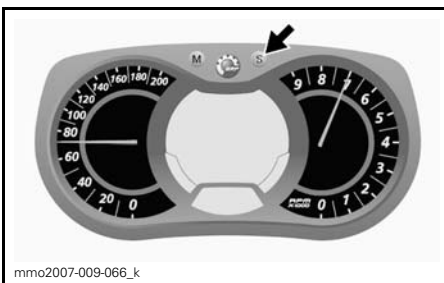
NOTE: This clock displays hour in the 24-hour format only.

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



1. Clock mode

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



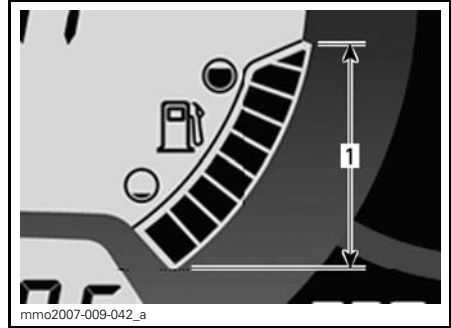
To change HOURS, while the value of HOURS is blinking, use the SET (S) button to change hours.

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

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

G) Fuel Level

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



FUEL LEVEL

1. Operating range

H) Altitude

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

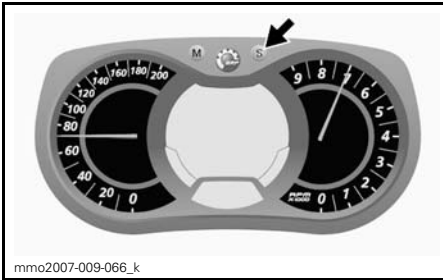
NOTE: Altitude displayed is rounded off every 100 meters (gauge set in metric units) or 200 feet (gauge set in imperial units).

To display vehicle altitude, proceed as follows.

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



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

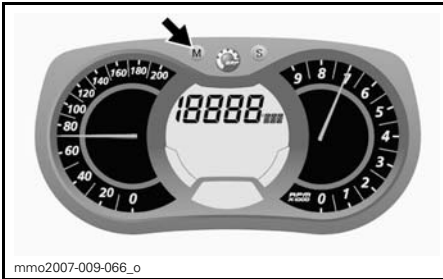


The following symbol appears when altitude mode is selected.



ALTITUDE MODE

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

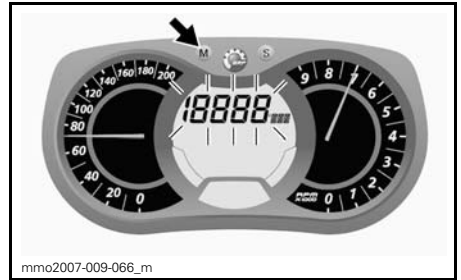


l) Top Speed

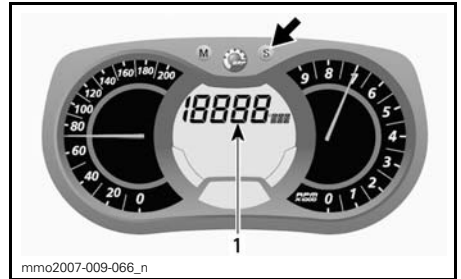
Records vehicle top speed since it has been reset.

To display vehicle top speed, proceed as follows.

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

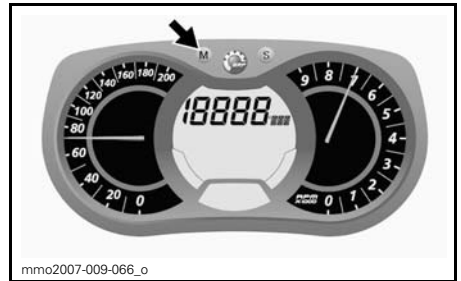


While display flashes, press the SET (S) button to select top speed (TOP_SPD) mode.



1. Top speed (TOP_SPD) mode

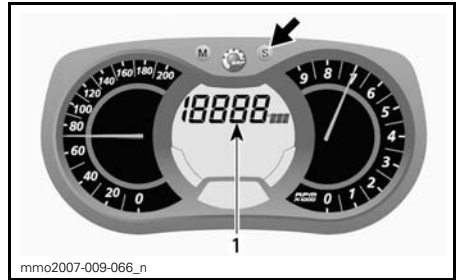
Press the MODE (M) button to confirm selection or wait 5 seconds.



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

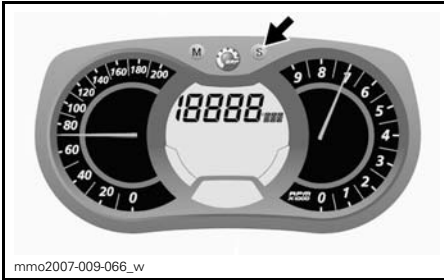


While display flashes, press and hold the SET (S) button within 5 seconds to reset.



1. Vehicle average speed (AVR_SPD) mode

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

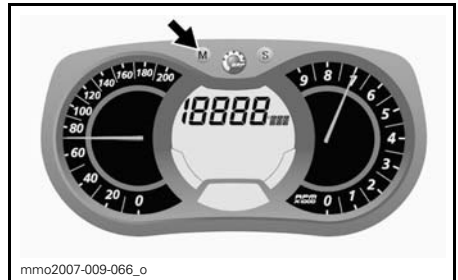


J) Average Speed

Records vehicle average speed since it has been reset.

To display vehicle average speed, proceed as follows.

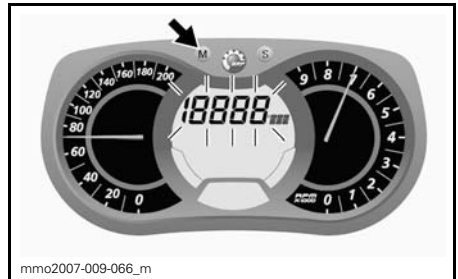
Press the MODE (M) button to select display 1.



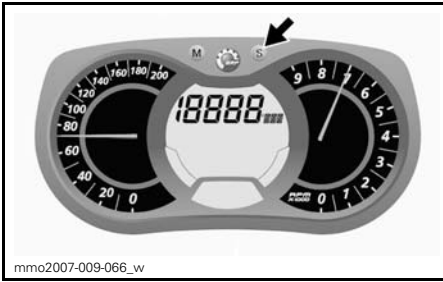
To reset, press the MODE (M) to select mode.



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



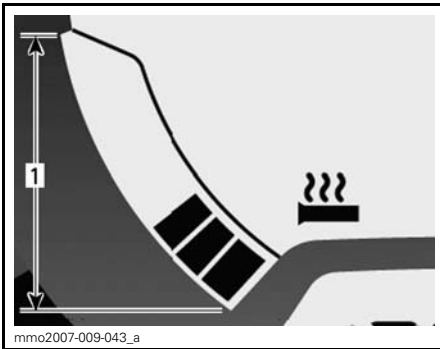
While display flashes, press and hold the SET (S) button within 5 seconds to reset.



K) Heated Grips Heating Intensity

Bar gauge that indicates heating intensity.

Refer to *HEATED GRIPS SWITCH* for more details.



HEATED GRIPS

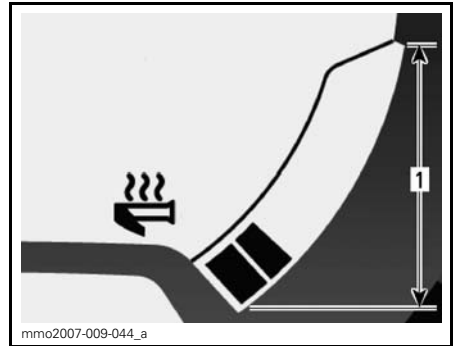
1. Operating range

L) Heated Throttle Lever Heating Intensity

Bar gauge that indicates heating intensity.

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

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



HEATED THROTTLE LEVER

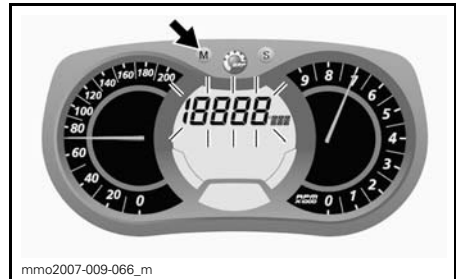
1. Operating range

M) Instant Fuel Consumption

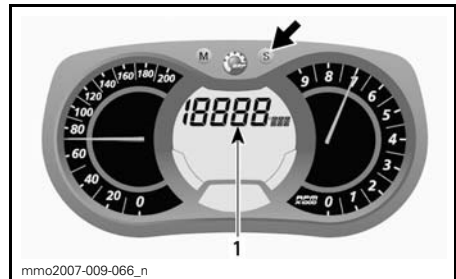
Calculates vehicle average fuel consumption while riding.

To display vehicle average fuel consumption, proceed as follows.

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



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



1. Instant fuel consumption mode

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



N) Total Fuel Consumption

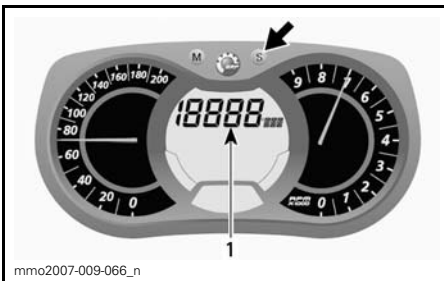
Records vehicle average fuel consumption since it has been reset.

To display vehicle total fuel consumption, proceed as follows.

Press the MODE (M) button to select display.

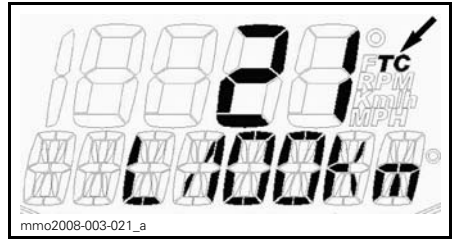


While display flashes, press the SET (S) button to select total fuel consumption (TC) mode.



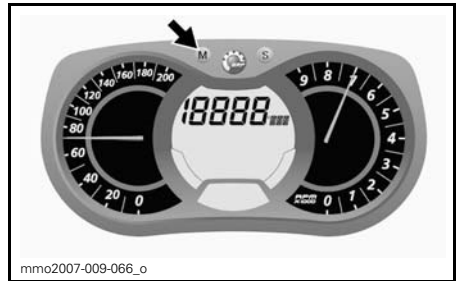
1. Total fuel consumption (TC) mode

TC appears when the mode is selected.

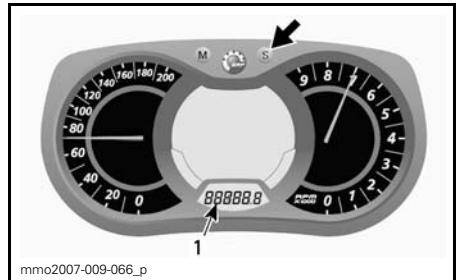


TYPICAL

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

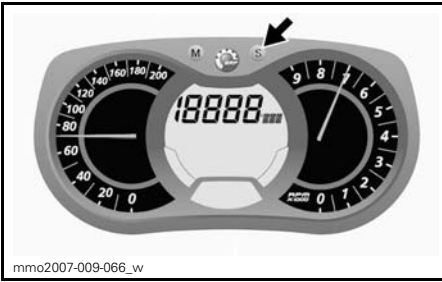


To reset, set the trip meter to TRIP B. Refer to *TRIP METER "A" OR "B"* for more details.

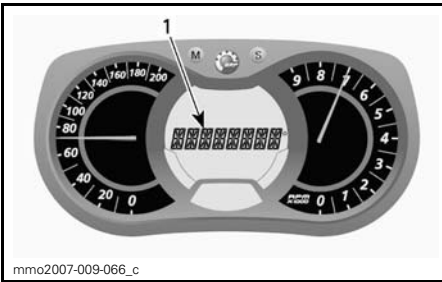


1. Trip meter (TRIP B) mode

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



O) Message Display



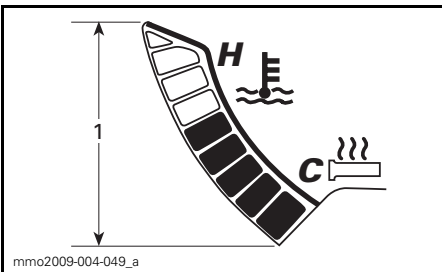
1. Message display

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

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

P) Coolant Temperature

Bar gauge that continuously indicates the engine coolant temperature.



COOLANT TEMPERATURE

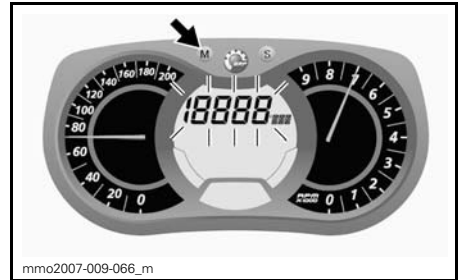
1. Range

Q) Top RPM

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

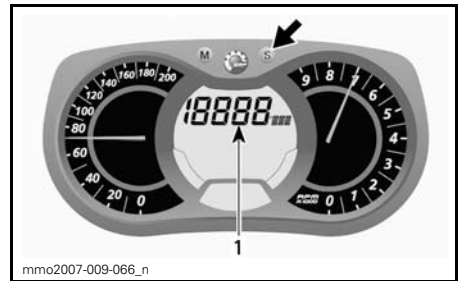
To display engine top revolution per minute, proceed as follows:

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



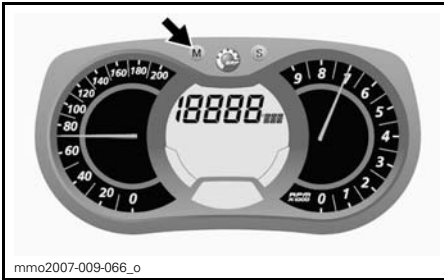
NOTE: Display will flash for approximately 5 seconds, then will return to the previously selected mode if display is not changed.

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



1. Top RPM (TOP_RPM) mode

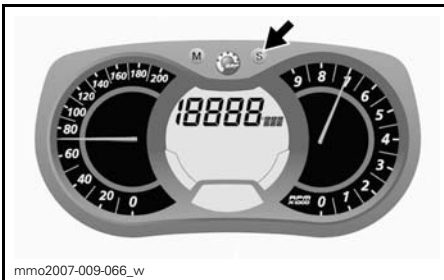
3. Press the MODE (M) button to confirm selection or wait 5 seconds.



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



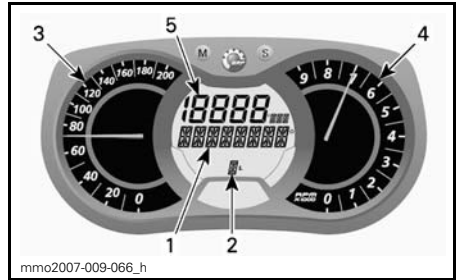
Press and hold the SET (S) button within 5 seconds to reset.



R) Lap Record Mode

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

Also, a possibility of nine (9) different sessions (laps) can be recorded for a maximum total of 2.5 minutes.



LAP RECORD MODE

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

To Activate Lap Record Mode:

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

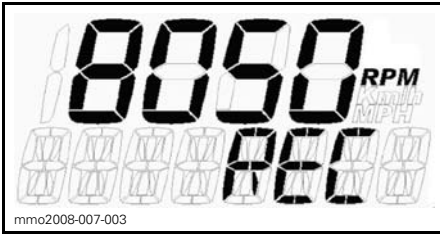


1. Record mode
2. Odometer
3. Press the SET (S) button to scroll between modes.

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

To Record:

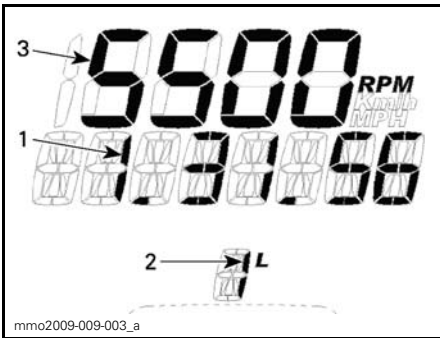
1. Select REC (record) mode.



RECORD MODE

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

Press the SET (S) button to stop recording.



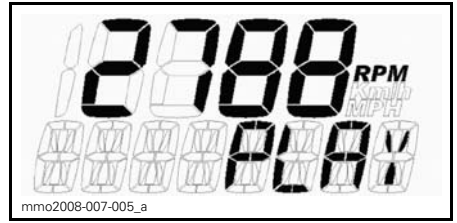
RECORD MODE

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

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

To Review Recorded Data:

Select PLAY mode.



PLAY MODE

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

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

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

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

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

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

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

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

S) Exhaust Gas Temperature

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

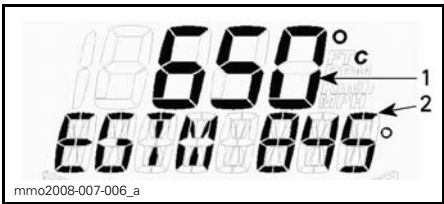
To display exhaust gas temperature, proceed as follows:

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



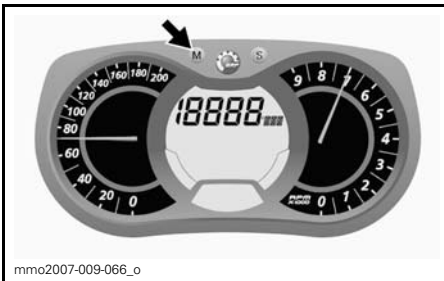
NOTE: Display will flash for approximately 5 seconds, then will return to the previously selected mode if display is not changed.

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

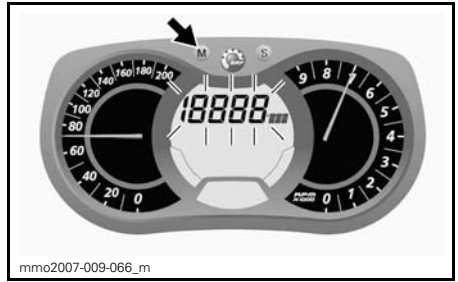


EXHAUST GAS TEMPERATURE (EGTM) MODE

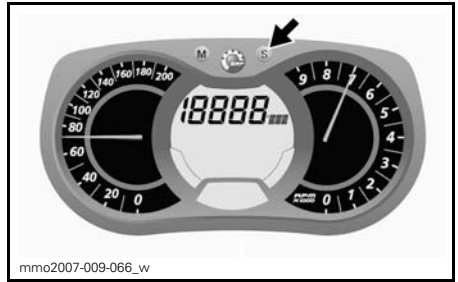
1. Current temperature
 2. Maximum temperature recorded
3. Press the MODE (M) button to confirm selection or wait 5 seconds.



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



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

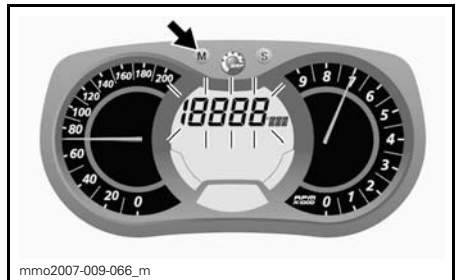


T) Throttle Position Display

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

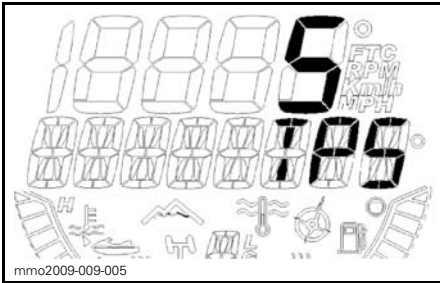
To display throttle position, proceed as follows:

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



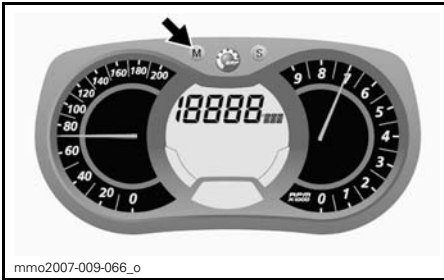
NOTE: Display will flash for approximately 5 seconds, then will return to the previously selected mode if display is not changed.

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



THROTTLE POSITION MODE

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



U) Air Control Suspension

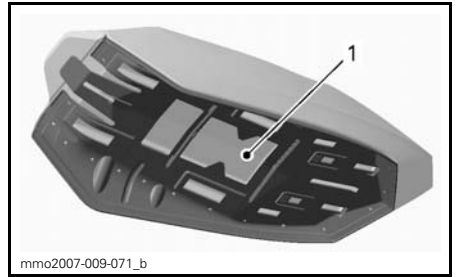
Displays rear suspension air shock absorber set point and actual setting.

V) E-TEC Engine Storage Mode

Displays "OIL" when the engine enters the storage procedure.

14) Operator's Guide

The Operator's Guide is located in the driver's seat base.



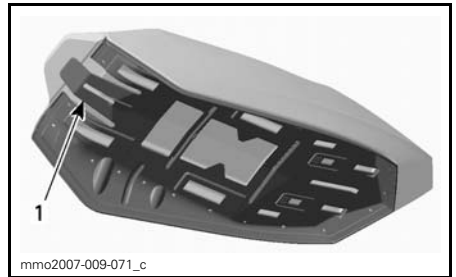
TYPICAL - SEAT

1. Operator's Guide location

15) Driver's Seat

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

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



TYPICAL - SEAT

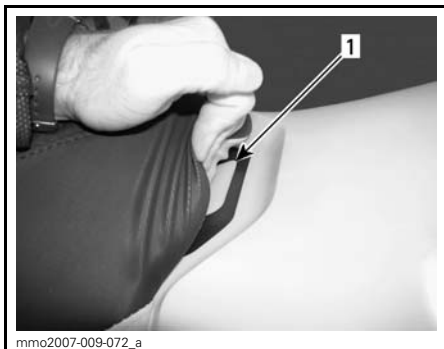
1. Seat latch

Seat Removal

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

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

1. Pull the front portion of the seat cushion, firmly push seat forward to unload latch, then pull tab to unlock seat.
2. Holding the seat latch, slide seat towards rear.

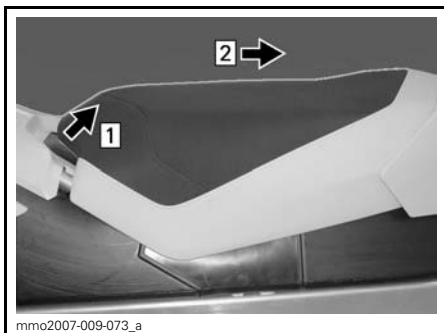


1. Seat latch

NOTE: On the models with a heated seat, disconnect the electrical connector located underneath the seat.

NOTICE Do not stretch the electrical connector and wiring.

3. Remove seat.



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

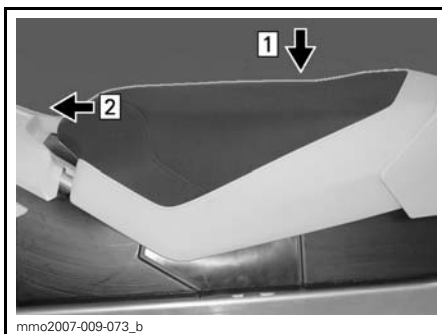
Seat Installation

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

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

1. Position seat in place.

2. Push seat forward until it latches in its position.



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

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



TYPICAL - SEAT INSTALLED

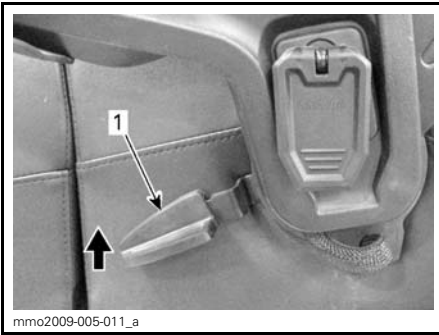
⚠ WARNING
Make sure seat is securely latched before riding.

16) Backrest

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

To adjust the backrest, proceed as follows:

1. Pull up and hold the lock lever.



1. Backrest lock lever

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

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

17) Passenger (1+1) Seat

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

WARNING

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

Passenger Seat Removal

To remove the rear seat, proceed as follows:

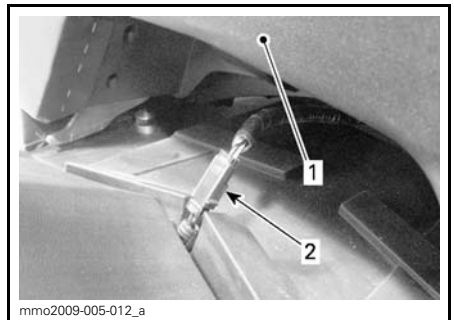
1. Remove the tunnel bag if equipped.
2. Pull the latch strap located at rear of the passenger seat as shown.



mmo2009-005-014_a

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

NOTICE Do not stretch the accessory connector and wiring.



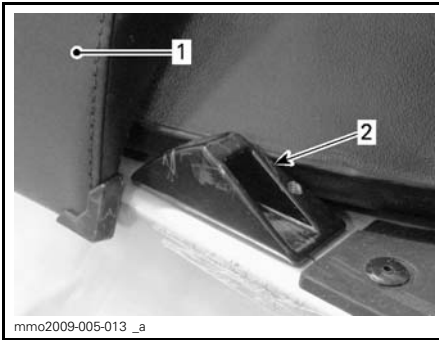
mmo2009-005-012_a

1. Rear seat
2. Accessories connector
4. Disconnect the accessories connector and remove seat.

Passenger Seat Installation

To install the passenger seat, proceed as follows:

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



1. Driver's seat
2. Tunnel slot

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

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

⚠ WARNING

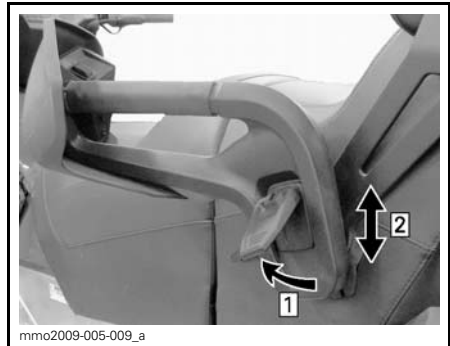
Make sure seat is securely latched before riding.

18) Passengers Handholds

Adjustable and heated handholds mounted at rear on Grand Touring models.

To adjust the handhold height, proceed as follows:

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



- Step 1: Pull knob
Step 2: Adjust height

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

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

19) Storage Compartment

⚠ WARNING

All storage compartments must be securely closed and must not contain any sharp, heavy or breakable objects.

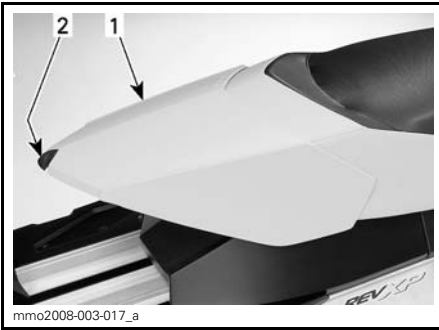
Applicable Single Passenger Models

⚠ WARNING

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

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

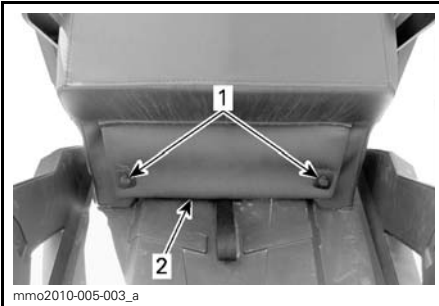
To open storage compartment cover, release rubber tie, then lift rear of cover.

**TYPICAL**

1. Storage compartment cover
2. Rubber tie

Dual Passenger Models

To open storage compartment cover, unfasten buckles, then open cover.

**REAR OF PASSENGER SEAT**

1. Buckles
2. Storage compartment cover

20) Rear Rack**⚠ WARNING**

All objects in rear rack must be properly latched. Do not carry any breakable objects. Excessive weight in rack may reduce steering ability. The **MAXIMUM** cargo load is 15.8 kg (35 lb) including the storage compartment load. Ride at low speed when loaded. Avoid speed over bumps. Always readjust suspension according to the load.

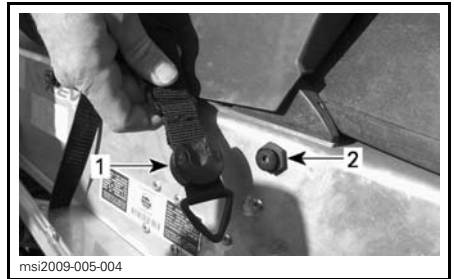
21) Tunnel Bag (GSX)**⚠ WARNING**

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

⚠ CAUTION **MAXIMUM** load for this bag is 1.4 kg (3lb) evenly distributed.

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

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



1. Strap
2. Anchor

22) Tunnel Bag (Grand Touring)**⚠ WARNING**

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

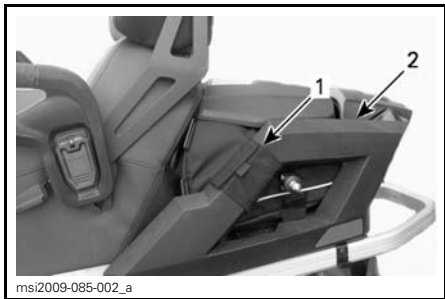
⚠ CAUTION **MAXIMUM** load for this bag is 2.27 kg (5 lb) evenly distributed.

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

Flat Installation

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

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



1. Velcro strap
2. Rear rack

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

Upright Installation

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

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



1. Backrest
2. Shoulder straps

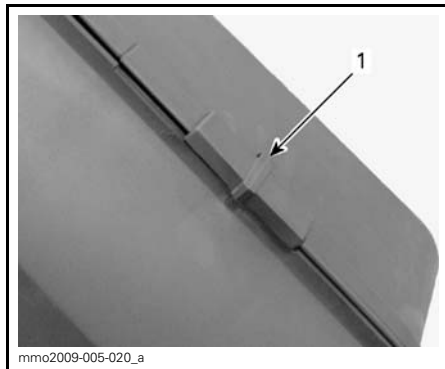
23) Saddlebags

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

Saddlebag Opening and Closing

To open the saddlebags, proceed as follows:

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



TYPICAL

1. Slide lock

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

Saddlebag Removal

To remove a saddlebag, proceed as follows:

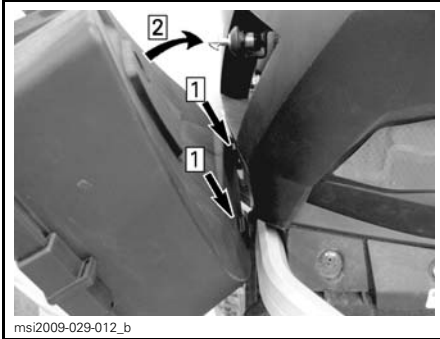
1. Unlock the handle with the provided key.
2. Pull handle all the way up and remove the saddlebag.

Saddlebag Installation

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

1. Insert the metal tabs, located on the rear bumper, in the saddlebag slots.

- Firmly push the top of the saddlebag towards the vehicle. A "snap" will be felt when the saddlebag is properly secured. Make sure the saddle bags are properly secured before getting underway.

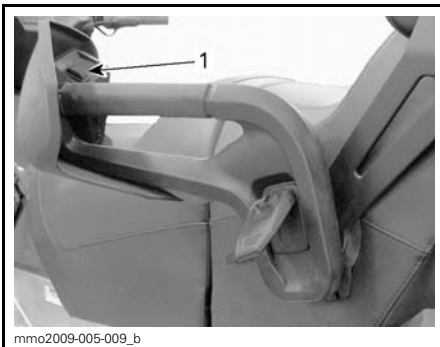


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- Step 1: Insert tabs
Step 2: Push towards vehicle

24) Passenger Heated Grip Switch

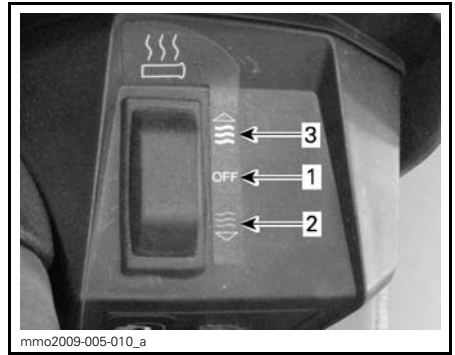
The switch is located on the LH passenger handhold.



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- Passenger heated grip switch

Adjust heating intensity as shown.



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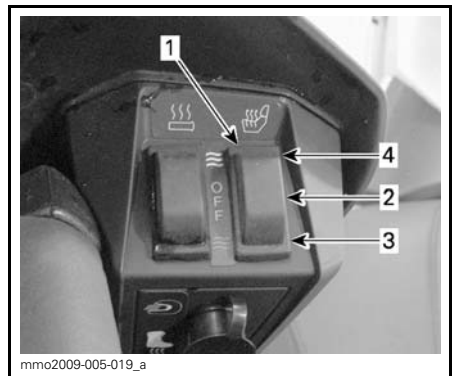
- Off
- Warm
- Hot

25) Heated Seats Switches

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

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

The rear seat switch is located on the LH handhold.



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REAR SEAT SWITCH SHOWN

- Heated seat
- OFF
- Warm
- Hot

26) Electric Visor Jack Connectors

An electric visor can be connected to the jack connector. Electric current is supplied whenever engine is running

on the 1200 4-TEC models and from 1900 RPM on the E-TEC model. A stress relief extension is supplied with the vehicle.

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

27) 12-Volt Power Outlet

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

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

28) Hitch

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

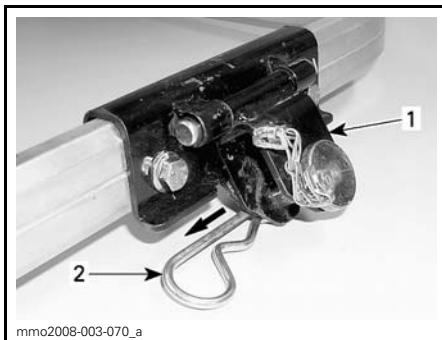
NOTE: Refer to decal on vehicle for towing weight capacities.

⚠ WARNING

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

How to Use the Hitch

Detach hitch from its support by removing the hairpin.



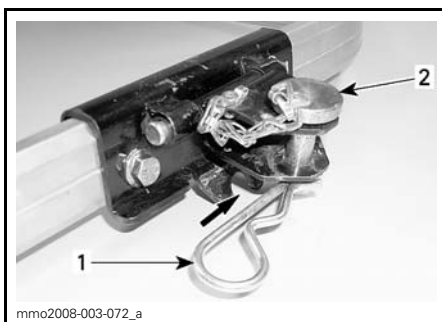
1. Hitch
2. Hairpin

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



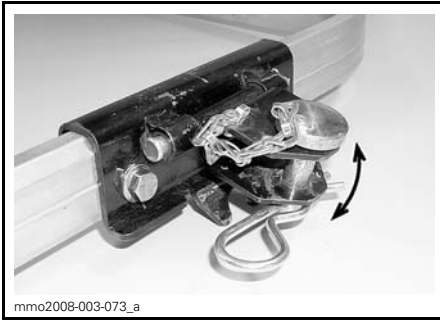
- TYPICAL**
1. Rod

Secure rod to hitch using hairpin previously removed.



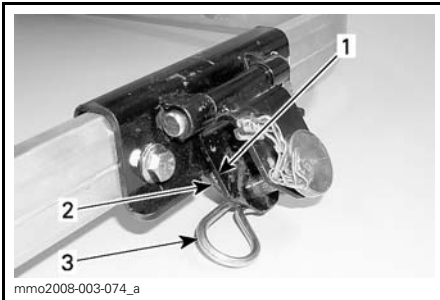
- TYPICAL**
1. Hairpin
2. Rod

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



HITCH MOVES FREELY WHEN TOWING

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



HITCH NOT IN USE

1. Hitch
2. Support
3. Hairpin

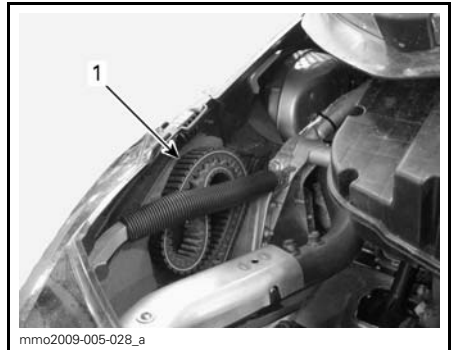
29) Spare Drive Belt Stowage

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

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

Remove hood, see procedure in this subsection.

Position drive belt as shown.



1. Spare drive belt correctly stored

NOTICE Make sure that spare drive belt does not come in contact with the exhaust system.

30) Drive Belt Guard

Drive Belt Guard Removal

WARNING

NEVER operate engine:

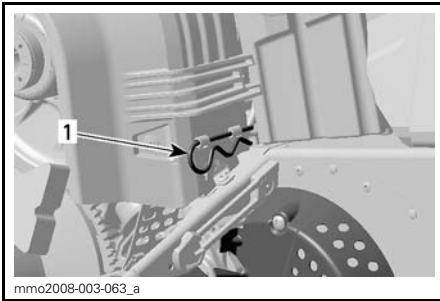
- Without shields and drive belt guard securely installed.
- With hood and/or side panels opened or removed.

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

Remove the tether cord cap from engine cut-off switch.

Open LH side panel, see procedure in this subsection.

Remove retaining pin.



1. Retaining pin

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

Drive Belt Guard Installation

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

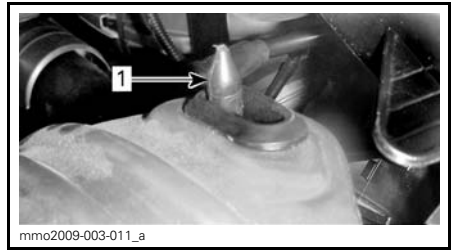
Place the front LH slot of the guard over the longest tab.

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



1. Tabs

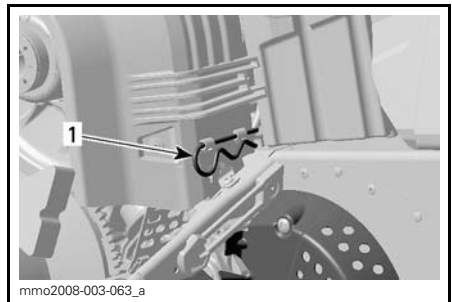
Position the grommet over the retaining rod. It may be necessary to slightly lift the console to make room.



1. Retaining rod

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

NOTE: The drive 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.



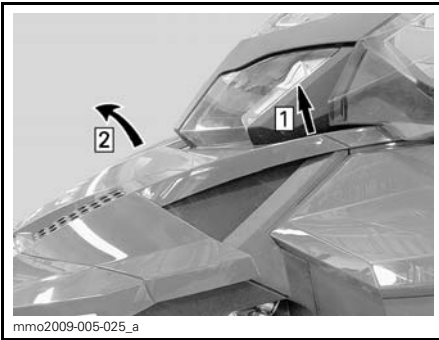
1. Retaining pin

31) Hood

⚠ WARNING
 Never operate engine with hood removed from vehicle.

Hood Removal

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



Step 1: Pull up

Step 2: Lift

Reverse procedure to close the side panel.

Side Panel Removal

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

Reverse procedure to install the side panel.

Hood Installation

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

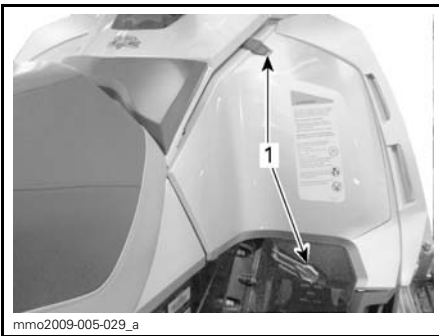
32) Side Panels

⚠ WARNING

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

Side Panel Opening

1. Stretch and unhook the latches.
2. Pull the rear of side panel outwards.



TYPICAL

1. Latches

FUEL

Recommended Fuel

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

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

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

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

Fuel Antifreeze Additives

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

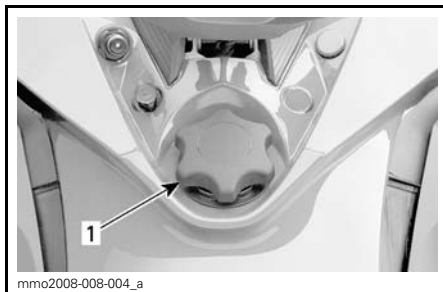
When using non-oxygenated fuel, we highly recommend the use of isopropyl base gas line antifreeze in a proportion of 150 ml (5 U.S. oz) of gas line antifreeze added to 40 L (10.6 U.S. gal.) of gas.

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

NOTE: Use only methyl hydrate free gas line antifreeze.

Fueling Procedure

Unscrew to fill up tank then fully tighten.



TYPICAL
1. Fuel tank cap

⚠ WARNING

- Always stop engine before refueling. 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.
- Fuel is flammable and explosive under certain conditions.
- Never use an open flame to check fuel level.
- Never smoke or allow flame or spark in vicinity.
- Always work in a well-ventilated area.
- Never top up the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and may overflow.
- Always wipe off any fuel spillage from the vehicle.

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

INJECTION OIL (600 HO E-TEC)

Recommended Injection Oil

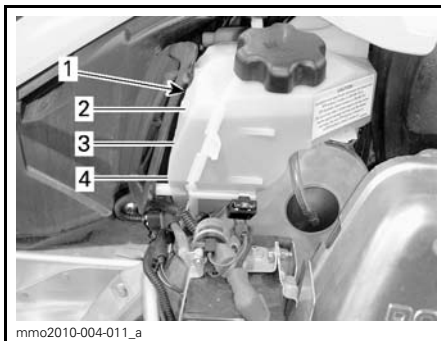
ENGINE	RECOMMENDED INJECTION OIL
600 HO E-TEC	XPS SYNTHETIC BLEND 2-STROKE OIL (P/N 293 600 100) ⁽¹⁾

NOTICE (1) The engine of this snowmobile has been developed and validated using the BRP XPS™ Synthetic Blend 2-stroke oil. BRP strongly recommends the use of its XPS Synthetic Blend 2-stroke oil at all times. Damages caused by oil which is not suitable for the engine will not be covered by the BRP limited warranty.

Injection Oil Level Verification

The injection oil reservoir is located behind the RH side panel. See *CONTROLS, INSTRUMENTS AND EQUIPMENT* for opening procedure.

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



TIPICAL

1. Oil reservoir
2. 3/4 level
3. 1/2 level
4. 1/4 level

NOTICE Check level and refill every time you refuel.

To Add Injection Oil

Remove injection oil reservoir cap.
Add injection oil. Do not overfill.
Reinstall cap and fully tighten.

NOTICE Do not mismatch oil reservoir cap with fuel tank cap.

WARNING

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

BREAK-IN PERIOD

Break-In Period Duration

A break-in period of 500 km (300 mi) or 10 operating hours is required.

E-TEC Models

The engine break-in duration is based on fuel volume. It will take approximately two fuel tanks to complete the break-in.

During this period:

- The engine performance and behavior will not be optimal.
- The fuel consumption will be higher.
- The oil consumption will be higher.

Operation During Break-In

Engine

During the break-in period:

- Avoid prolonged full throttle operation.
- Avoid sustained accelerations.
- Avoid prolonged cruising speeds.
- Avoid engine overheating.

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

Drive Belt

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

During the break-in period:

- Avoid strong acceleration and deceleration.
- Avoid pulling a load.
- Avoid high speed cruising.

Break-In Inspection

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

OPERATING INSTRUCTIONS

Engine Starting Procedure

Procedure

1. Apply parking brake.
2. Recheck throttle control lever operation.
3. Put your helmet on.
4. Ensure that the tether cord cap is installed on the engine cut-off switch and that the cord is attached to your clothing eyelet.
5. Ensure that the emergency engine stop switch is in the ON position.
6. Depress the START/RER™ button to engage the electric starter and start the engine. Release button immediately when engine has started.

⚠ WARNING

Never depress throttle while starting engine.

7. Release parking brake.

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

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

Emergency Starting

1200 4-TEC

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

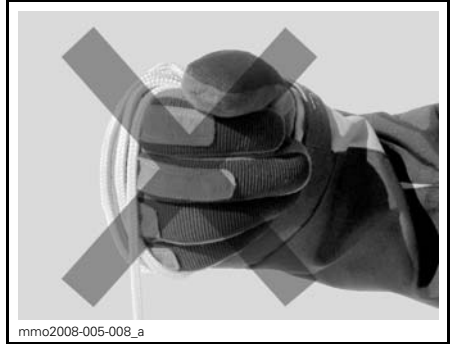
E-TEC

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

Remove drive belt guard.

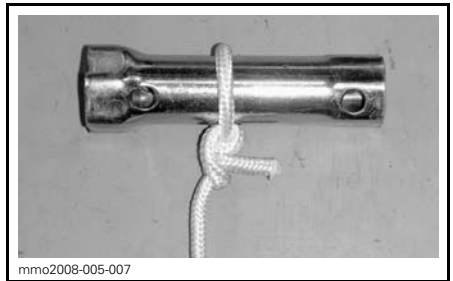
⚠ WARNING

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



Attach one end of emergency rope to rewind handle.

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

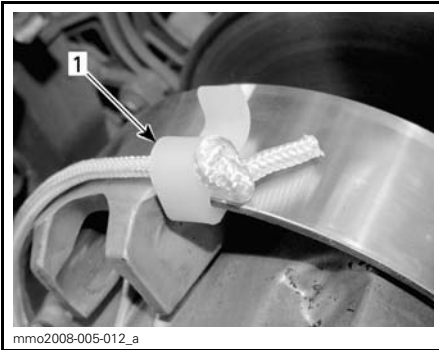


Attach the other end of emergency rope to the starter clip supplied in the tool kit.



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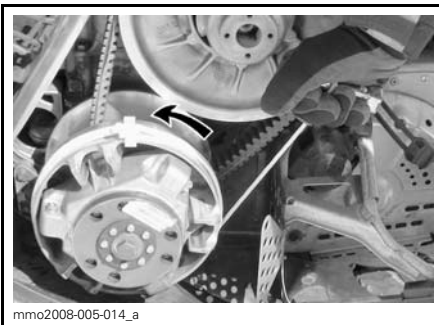
Hook up clip on drive pulley.



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1. Clip installation location

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



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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 drive belt guard and return slowly to have snowmobile repaired.

Vehicle Warm-Up

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

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

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

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

NOTICE If vehicle does not move when throttle is applied, stop engine, remove tether cord cap from the engine cut-off switch, then do the following.

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

⚠ CAUTION Use proper lifting techniques, notably using your legs force. Do not attempt to lift the either end of the vehicle if it is above your limits.

⚠ WARNING

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

NOTE: On E-TEC models, warm-up is controlled by the engine management system. During this period (up to 10 minutes depending on ambient temperature), engine RPM is limited.

Operating in Reverse**⚠ WARNING**

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

Reverse (Manual Shift Models)**Shifting in Reverse**

To engage reverse gear, proceed as follows:

1. Bring vehicle to a complete stop.
2. Apply and hold brake. Remain seated, refer to *RIDER POSITION (REVERSE OPERATION)* for posture information.
3. With engine at idle speed, pull the reverse shift lever all the way out.
4. Gently depress throttle lever.

Shifting in Forward

To engage forward gear, proceed as follows:

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

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

To engage reverse or forward, proceed as follows:

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

Shutting Off the Engine

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

Shut off the engine using either the emergency engine stop switch or by pulling off the tether cord cap from the engine cut-off switch.

⚠ WARNING

Always remove the tether cord cap from engine cut-off switch when vehicle is not in operation in order to prevent accidental engine starting, theft or use by unauthorized persons.

Towing an Accessory

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

⚠ WARNING

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

Towing Another Snowmobile

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

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

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

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

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

⚠ WARNING

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

TUNE YOUR RIDE

Snowmobile handling and comfort depend upon suspension adjustments.

⚠ WARNING

Suspension adjustment could affect vehicle handling. Always take time to familiarize yourself with the vehicle's behavior after any suspension adjustment have been made. Always adjust LH and RH suspension components to the same setting.

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.

⚠ WARNING

Before proceeding with any suspension adjustment, remember:

- Park in a safe place.
- Remove the tether cord cap from the engine cut-off switch.
- Use appropriate lifting device or have assistance to share lifting stress. If a lifting device is not used, use proper lifting techniques, notably using your legs force.
- Do not attempt to lift the front or rear of vehicle if it is above your limits.
- Support front of vehicle off the ground with a suitable device before adjusting suspension.
- Support rear of vehicle off the ground with a wide-base snowmobile stand with a rear deflector panel.
- Make sure support device is stable and secure.

The best way to set up the suspension is to customize each adjustment one at a time. Various adjustments are

interrelated. It may be necessary to readjust center spring after adjusting front springs for instance. Test run the snowmobile under the same conditions; trail, speed, snow, driver riding position, etc. Proceed methodically until you are satisfied.

Following are guidelines to fine-tune suspension. Use suspension adjustment tool provided in the tool kit.

Air Suspension (SE Models)

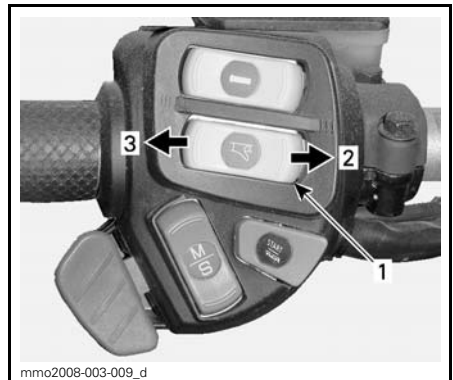
The operator can adjust the comfort and ride height by adjusting the air pressure inside the air shock absorber.

To adjust, proceed as follows:

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

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

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



VARIABLE INTENSITY

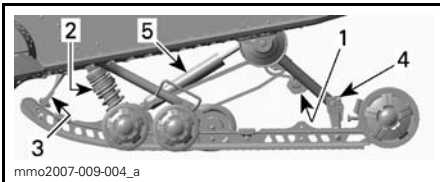
1. Heated throttle lever switch
2. Increase pressure
3. Decrease pressure

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



1. Set point
2. Actual setting

Rear Suspension Adjustments



SC-5™ REAR SUSPENSION

1. Rear springs preload
2. Center spring preload and shock absorber damping
3. Stopper strap
4. Coupling blocks
5. Rear shock absorber damping

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

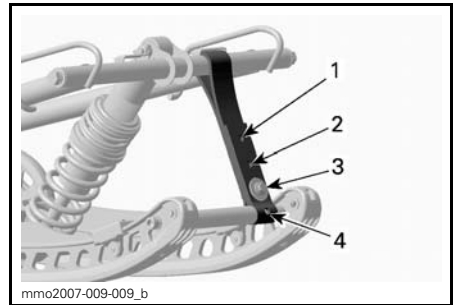
Stopper Strap Length

Stopper strap length has an effect on the amount of weight the center spring has to carry especially during acceleration, therefore on the front end uplift.

Stopper strap length also has an effect on center spring travel.

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

ACTION	RESULT
Increasing stopper strap length	Lighter ski pressure under acceleration
	More center spring travel
	More bump absorption capability
Decreasing stopper strap length	Heavier ski pressure under acceleration
	Less center spring travel
	Less bump absorption capability



TYPICAL

1. Position 1 (longest)
2. Position 2
3. Position 3
4. Position 4

NOTE: Decreasing the stopper strap length may reduce comfort. If too much weight transfer is felt, try to correct it by adjusting the coupling blocks first. Always install stopper strap bolt as close as possible to the lower shaft.

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

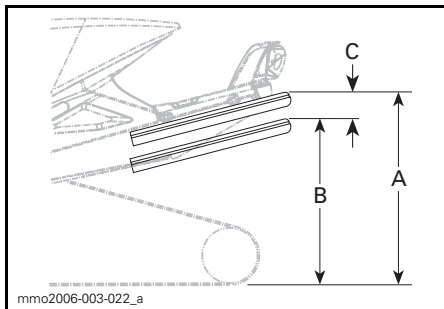
Generally, a longer stopper strap setting gives better performance in deep snow on a flat landscape.

Rear Spring Preload

Rear spring preload has an effect on comfort, ride height and load compensation.

Also, adjusting rear spring preload shifts more or less weight to the snowmobile front end. As a result, more or less weight is applied to the skis. This has an effect on performance in deep snow, steering effort and handling.

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



TYPICAL — PROPER ADJUSTMENT

- A. Suspension fully extended
- B. Suspension has collapsed with driver, passenger(s) and load added
- C. Distance between dimension "A" and "B", see table below

ACTION	RESULT
Increasing preload	Firmer rear suspension
	Higher rear end
	More bump absorption capability
	Heavier steering
Decreasing preload	Softer rear suspension
	Lower rear end
	Less bump absorption capability
	Lighter steering
	Better deep snow performance and handling

"C"	WHAT TO DO
50 to 75 mm (2 to 3 in)	No adjustment required
More than 75 mm (3 in)	Adjusted too soft, increase preload
Less than 50 mm (2 in)	Adjusted too firm, decrease preload

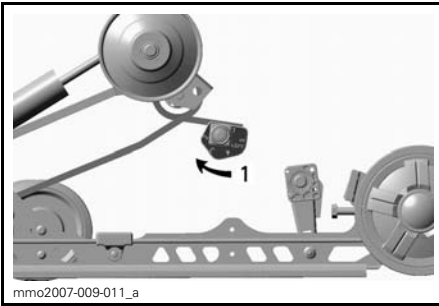
Refer to the following to determine if preload is correct.

NOTE: If the specification is unattainable with the original springs, see an authorized Ski-Doo dealer for other available springs.

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

CAUTION Never set preload cams directly from position 5 to 1 or directly from position 1 to 5.

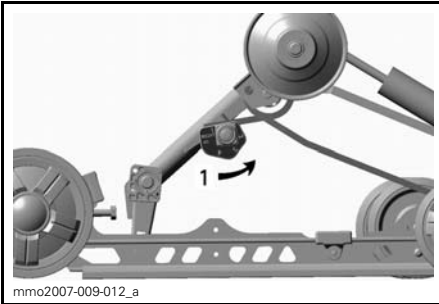
The adjustment cams have 5 different settings, 1 being the softest.



mmo2007-009-011_a

TYPICAL — SC-5 — LH SIDE

1. Adjust spring preload

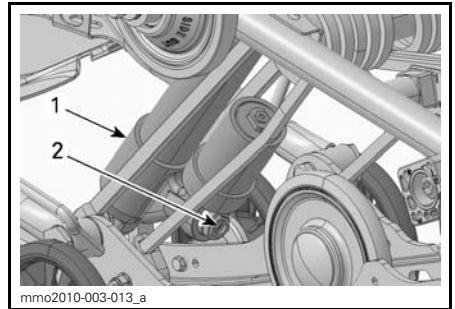


mmo2007-009-012_a

TYPICAL — SC-5 — RH SIDE

1. Adjust spring preload

To adjust, turn clockwise to increase damping force and counterclockwise to decrease damping force.



mmo2010-003-013_a

1. Rear shock absorber
2. Low speed compression damping adjuster (knob or slot)

High Speed Compression Damping

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

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

To adjust, turn clockwise to increase damping force and counterclockwise to decrease damping force.

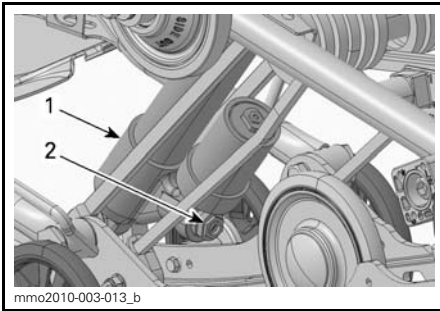
Rear Shock Compression Damping

KYB PRO Series Only

Low Speed Compression Damping

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

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



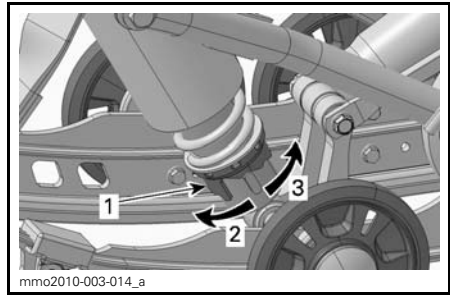
1. Rear shock absorber
2. High speed compression damping adjuster (hexagonal)

Center Spring Preload

Center spring preload has an effect on steering effort, handling and bump absorption.

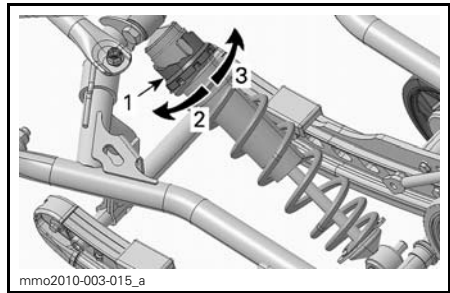
Also, since center spring preload adjustment puts more or less pressure on the front of the track, it has an effect on the performance in deep snow.

ACTION	RESULT
Increasing preload	Lighter steering
	More bump absorption capability
	Better deep snow starts
	Better deep snow performance and handling
Decreasing preload	Heavier steering
	Less bump absorption capability
	Better trail handling



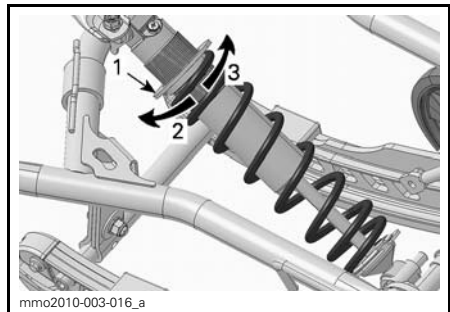
CAM TYPE - MOTION CONTROL SHOCK ABSORBER

1. Spring preload adjustment cam
2. Increase preload
3. Decrease preload



CAM TYPE - HPG™ SHOCK ABSORBER

1. Spring preload adjustment cam
2. Decrease preload
3. Increase preload



TYPICAL - RING TYPE

1. Spring preload adjustment ring
2. Increase preload
3. Decrease preload

NOTE: For cam type preload adjuster, use the suspension adjustment tool provided in the tool kit.

Coupling Blocks

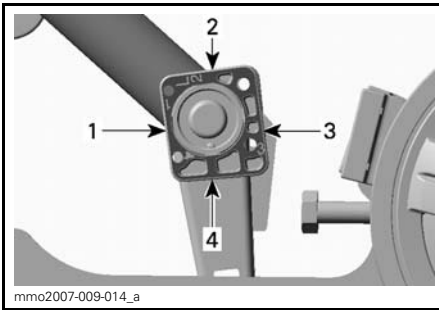
Coupling blocks adjustment has an effect on vehicle handling during acceleration only.

To adjust, turn coupling blocks using the suspension adjustment tool provided in the tool kit.

Place the desired setting number towards 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 — LEFT SIDE VIEW
("L" — LEFT EMBOSSED ON BLOCK)

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

Coupling Blocks Setting

POSITION	USE
1	More ski lift during acceleration
2	Intermediate setting
3	Intermediate setting
4	Less ski lift during acceleration

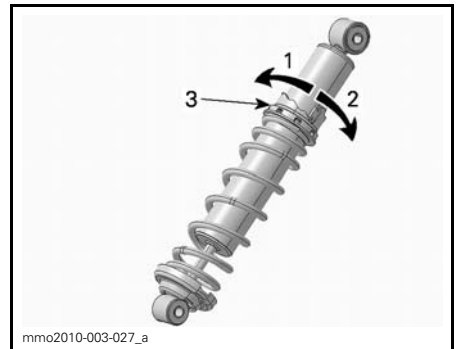
Front Suspension Adjustments

Spring Preload

Front spring preload has an effect on front suspension firmness.

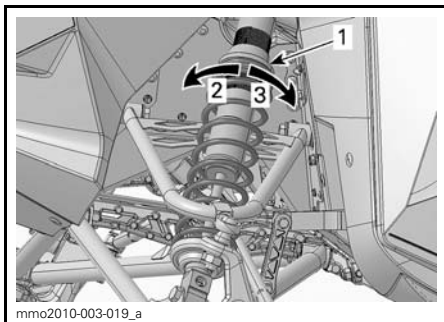
Front spring preload also has an effect on the steering behavior.

ACTION	RESULT
Increasing preload	Firmer front suspension
	Higher front end
	More precise steering
	More bump absorption capability
Decreasing preload	Softer front suspension
	Lower front end
	Lighter steering
	Less bump absorption capability



CAM TYPE - HPG SHOCK ABSORBER

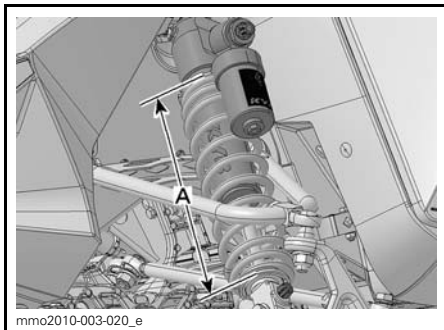
1. Decrease preload
2. Increase preload
3. Spring preload adjustment cam



TYPICAL- RING TYPE

1. Spring preload adjustment ring
2. Increase preload
3. Decrease preload

NOTICE On KYB PRO Series shock absorbers, in order to have a sufficient preload, the spring free length (with skis off the ground) must not exceed 270 mm (10.63 in). An insufficient preload can cause the spring stopper to fall off the shock absorber.



1. Maximum 270 mm (10.63 in) with skis off the ground.

Front Shock Compression Damping

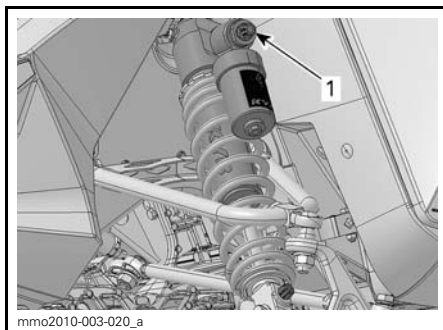
KYB PRO Series Only

Low Speed Compression Damping

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

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

To adjust, turn clockwise to increase damping force and counterclockwise to decrease damping force.



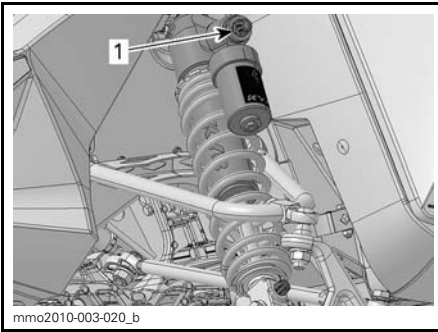
1. Low speed compression damping adjuster (slot or knob)

High Speed Compression Damping

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

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

To adjust, turn clockwise to increase damping force and counterclockwise to decrease damping force.



1. High speed compression damping adjuster (hexagonal)

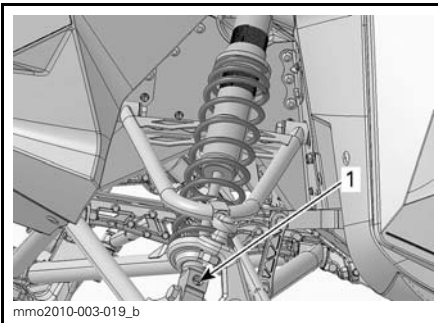
Front Shock Rebound Damping

HPG Plus R Only

Rebound damping controls how the shock absorber restrains the extension stroke.

ACTION	RESULT
Increasing rebound damping force	Firmer rebound damping (extension stroke)
Decreasing rebound damping force	Softer rebound damping (extension stroke)

NOTE: In repetitive short small bumps (ripple), it is recommended to use a lower rebound damping setting.



1. Rebound adjuster (knob or slot)

Vehicle Behavior Related to Suspension Adjustment

PROBLEM	CORRECTIVE MEASURES
Front suspension darting	Check ski alignment: <ul style="list-style-type: none"> – Reduce front suspension spring preload. – Increase center spring preload. – Reduce rear spring preload.
Steering feels too heavy at steady speeds	<ul style="list-style-type: none"> – Reduce front suspension spring preload. – Increase center spring preload.
Steering feels too heavy during acceleration	<ul style="list-style-type: none"> – Set coupling blocks to a lower position. – Reduce rear spring preload – Lengthen limiter strap.
Too much ski lift during cornering or acceleration	<ul style="list-style-type: none"> – Set coupling blocks to a higher position. – Shorten limiter strap. – Increase rear spring preload.
Rear of snowmobile seems too stiff	Reduce rear spring preload.
Rear of snowmobile seems too soft	Increase rear spring preload.
Rear suspension is frequently bottoming	<ul style="list-style-type: none"> – Increase rear spring preload. – Increase center spring preload. – Lengthen limiter strap.
Snowmobile seems to pivot around its center	<ul style="list-style-type: none"> – Reduce center spring preload. – Increase rear spring preload. – Increase front suspension spring preload. – Shorten limiter strap.
Track spins too much at start	<ul style="list-style-type: none"> – Set coupling blocks to a lower position. – Lengthen limiter strap.

VEHICLE TRANSPORTATION

Make sure the fuel tank cap is are properly installed.

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

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

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MAINTENANCE

BREAK-IN INSPECTION

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

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

We recommend that this inspection be signed by an authorized Ski-Doo dealer.

Date of inspection

Authorized dealer signature

Dealer name

BREAK-IN INSPECTION (600 HO E-TEC)

Inspect engine motor mounts

Inspect exhaust system and check for leaks

Tighten exhaust manifold screws to specified torque

Check coolant level

Inspect fuel lines and connections

Inspect throttle cable

Inspect drive belt

Visually inspect drive pulley

Tighten drive pulley retaining screw to specified torque

Inspect driven pulley

Adjust and align track

Change chaincase oil

Adjust drive chain

Check brake fluid level

Inspect brake hose, pads and disk

Inspect steering mechanism

Inspect skis and runners

Inspect front suspension

Inspect rear suspension and slider shoes

BREAK-IN INSPECTION (1200 4-TEC)

Inspect engine seals and gaskets for leaks

Inspect exhaust system and check for leaks

Check coolant level

Change engine oil and filter

Inspect fuel lines and connections

Inspect throttle cable

Inspect drive belt

Visually inspect drive pulley

Tighten drive pulley retaining screw to specified torque

Inspect driven pulley

BREAK-IN INSPECTION (1200 4-TEC)
Adjust and align track
Change chaincase oil
Adjust drive chain
Check brake fluid level
Inspect brake hose, pads and disk
Inspect steering mechanism
Inspect skis and runners
Inspect front suspension
Inspect rear suspension and slider shoes

MAINTENANCE SCHEDULE (600 HO E-TEC)

NOTE: The maintenance schedule does not exempt the pre-ride inspection.

EVERY 1 500 KM (1,000 MI)
Adjust drive chain
EVERY 3 000 KM (2,000 MI) OR 1 YEAR (WHICHEVER COMES FIRST)
Inspect engine motor mounts
Inspect exhaust system and check for leaks
Inspect cooling system cap, hoses and clamps and check for leaks
Clean RAVE valves
Inspect RAVE valves solenoid
Adjust engine stopper
Visually inspect and clean drive pulley
Tighten drive pulley retaining screw to specified torque
Clean driven pulley
Adjust and align track
Inspect brake hose, pads and disk
Inspect steering mechanism
Inspect front suspension
Inspect rear suspension and stopper strap
Lubricate rear suspension (lubricate whenever the vehicle is used in wet conditions (rain, puddles))
EVERY 6 000 KM (4,000 MI) OR 2 YEARS (WHICHEVER COMES FIRST)
Replace oil filter
Replace fuel filter
Replace brake fluid
Inspect throttle cable

EVERY 10 000 KM (6,000 MI) OR 3 YEARS
(WHICHEVER COMES FIRST)

Replace spark plugs (must be replaced by an authorized Ski-Doo dealer)

EVERY 5 YEARS

Replace engine coolant

MAINTENANCE SCHEDULE (1200 4-TEC)

NOTE: The maintenance schedule does not exempt the pre-ride inspection.

EVERY 1 500 KM (1,000 MI)
Adjust drive chain

EVERY 3 000 KM (2,000 MI) OR 1 YEAR (WHICHEVER COMES FIRST)
Replace drive pulley O-rings
Clean drive pulley
Tighten drive pulley retaining screw to specified torque
Clean driven pulley
Adjust and align track
Inspect brake hose, pads and disk
Inspect steering mechanism
Inspect front suspension
Inspect rear suspension and stopper strap
Lubricate rear suspension (lubricate whenever the vehicle is used in wet conditions (rain, puddles))

EVERY 6 000 KM (4,000 MI) OR AT PRE-SEASON (WHICHEVER COMES FIRST)
Change engine oil and filter

EVERY 6 000 KM (4,000 MI) OR 2 YEARS (WHICHEVER COMES FIRST)
Replace fuel filter
Inspect drive pulley sliders and replace if necessary
Replace brake fluid
Inspect throttle cable

EVERY 10 000 KM (6,000 MI) OR 3 YEARS (WHICHEVER COMES FIRST)
Replace spark plugs

EVERY 20 000 KM (12,500 MI)

Check valve clearance and adjust if necessary

EVERY 5 YEARS

Replace engine coolant

PRESEASON PREPARATION

PRESEASON PREPARATION (600 HO E-TEC)

Inspect engine motor mounts

Check exhaust system condition and check for leaks

Tighten exhaust manifold screws or nuts to specified torque

Inspect cooling system cap, hoses and clamps

Check coolant density

Inspect crankshaft PTO seal

Inspect fuel lines and connections

Clean and inspect throttle body

Inspect throttle cable

Inspect drive belt (adjust at every drive belt replacement)

Clean and visually inspect drive pulley

Clean and inspect driven pulley

Inspect, adjust and align track

Adjust drive chain

Change chaincase oil

Check brake fluid level

Inspect brake hose, pads and disk

Inspect steering mechanism

Inspect skis and runners

Inspect front suspension

Inspect rear suspension stopper strap

Charge battery (if so equipped)

Adjust headlight beam aiming

PRESEASON PREPARATION (1200 4-TEC)

Visually inspect engine seals and gaskets and check for leaks

Check exhaust system condition and check for leaks

Change engine oil and filter

Check coolant density

Inspect fuel lines and connections

Clean and inspect throttle body

PRESEASON PREPARATION (1200 4-TEC)
Inspect throttle cable
Inspect drive belt (adjust at every drive belt replacement)
Clean and visually inspect drive pulley
Clean and inspect driven pulley
Inspect, adjust and align track
Adjust drive chain
Change chaincase oil
Check brake fluid level
Inspect brake hose, pads and disk
Inspect steering mechanism
Inspect skis and runners
Inspect front suspension
Inspect rear suspension stopper strap
Charge battery (if so equipped)
Adjust headlight beam aiming

STORAGE

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

STORAGE
Clean the vehicle
Add fuel stabilizer to fuel following the product manufacturer recommendations Run the engine after adding the product to the fuel
600 HO E-TEC models: lubricate engine. See <i>ENGINE STORAGE MODE (E-TEC)</i> in this subsection
Lubricate brake lever pivot
Inspect and lubricate rear suspension
Charge battery monthly to keep it fully charge during storage
Block muffler with rags
Lift rear of vehicle until track is clear of the ground. Do not release track tension

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

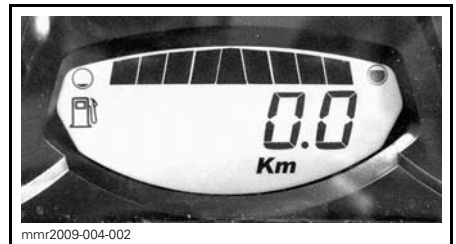
NOTICE The snowmobile has to be stored in a cool and dry place and covered with an opaque but ventilated tarpaulin. This will prevent sun rays and grime from affecting plastic components and vehicle finish.

Engine Storage Mode (E-TEC)

Like other engines, the E-TEC has to be properly lubricated at storage for internal parts protection. The E-TEC system offers a built-in engine lubrication function can be initiated by the operator.

To engage procedure, do the following:

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



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

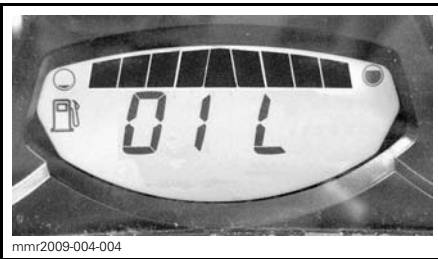
4. Repeatedly depress the HI/LOW beam switch rapidly, then, **while doing this**, press and hold the **SET button** until PUSH "S" appears on the display.



5. Release all buttons when gauge displays **PUSH "S"** appears.
6. Again, press and hold the SET (S) button for 2 - 3 seconds.

NOTE: The gauge will display **OIL** when the storage procedure is initiated.

7. When gauge displays **OIL**, release button and wait the end of the procedure.



Do not touch anything during engine lubrication cycle.

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

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

Remove tether cord cap from engine cut-off switch.

NOTICE Do not start the engine during storage period.

MAINTENANCE PROCEDURES

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

⚠ WARNING

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

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

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

⚠ WARNING

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

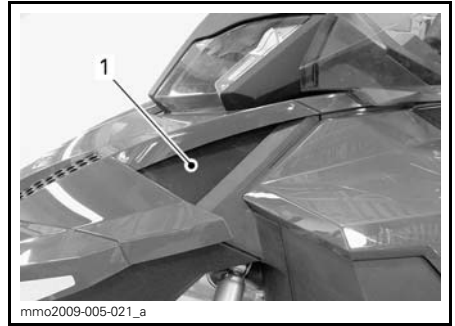
⚠ WARNING

Should removal of a locking device be required (e.g. lock tabs, self-locking fasteners, etc.) when undergoing disassembly/assembly, always replace with a new one.

Air Filter

Air Filter Verification

Ensure that air filter is properly installed, clean and in good condition.



1. Air filter

If the air filter has to be cleaned or replaced, see an authorized Ski-Doo dealer.

Engine Coolant

⚠ WARNING

Never open coolant tank cap when engine is hot.

Engine Coolant level Verification

600 HO E-TEC

The engine coolant tank is located under the hood. See *CONTROLS, INSTRUMENTS AND EQUIPMENT* for removal procedure.

1200 4-TEC

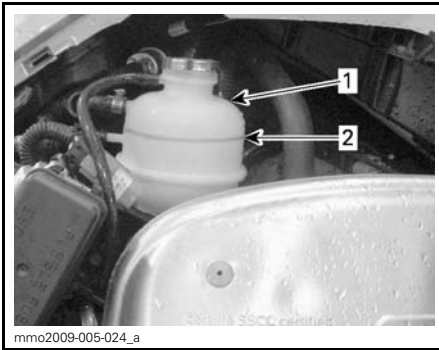
The engine coolant tank is located behind the RH side panel. See *CONTROLS, INSTRUMENTS AND EQUIPMENT* for opening procedure.

All Models

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

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

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



1200 4-TEC MODEL SHOWN

1. Coolant tank
2. COLD LEVEL line

Recommended Engine Coolant

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

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

Engine Oil (1200 4-TEC)

Recommended Engine Oil

ENGINE	RECOMMENDED ENGINE OIL
1200 4-TEC	XPS SYNTHETIC OIL (WINTER GRADE) (P/N 293 600 112)

NOTICE The engine of this snowmobile has been developed and validated using the BRP XPS™ Synthetic 4-stroke oil. BRP strongly recommends the use of its XPS Synthetic 4-stroke oil at all times. Damages caused by oil which is not suitable for the engine will not be covered by the BRP limited warranty.

If the recommended oil is not available, use SAE 0W-40 synthetic-based oil that meets or exceeds the requirements for API service classification SM.

Engine Oil Level Verification

Check engine oil level every 10 hours or 500 km (300 mi) whichever comes first.

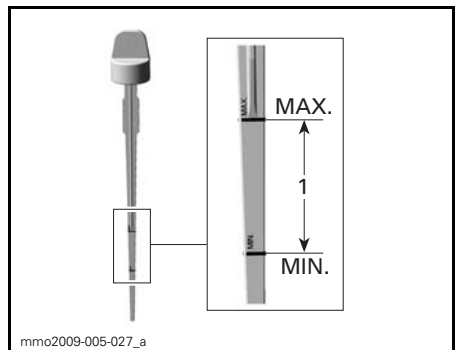
NOTICE Operating the engine with an improper oil level may severely damage engine. Wipe off any spillage.

Make sure the engine is at normal operating temperature.

NOTE: The engine reaches its normal operating temperature when the rear radiator gets warm.

Place vehicle on a level surface and proceed as follows to check oil level:

1. Let engine run at idle for approximately 30 seconds.
2. Stop engine.
3. Remove the drive belt guard, refer to *CONTROLS, INSTRUMENTS AND EQUIPMENT*.
4. Remove dipstick from the filler tube, then wipe it clean.
5. Completely insert dipstick in the filler tube.
6. Remove dipstick and check the oil level. Oil level should be between the MIN and MAX marks as shown, add if necessary.



1. Oil level between MIN. and MAX.

⚠ WARNING

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

Exhaust System

Exhaust System Verification

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

Check retaining springs condition and replace if necessary.

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

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

Muffler Removal and Installation

1. Refer to *BODY* and remove RH side panel.
2. Refer to *CONTROLS, INSTRUMENTS AND EQUIPMENT* and remove drive belt guard.

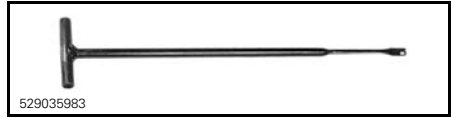
600 HO E-TEC

3. Disconnect the EGTS (Exhaust Gas Temperature Sensor).

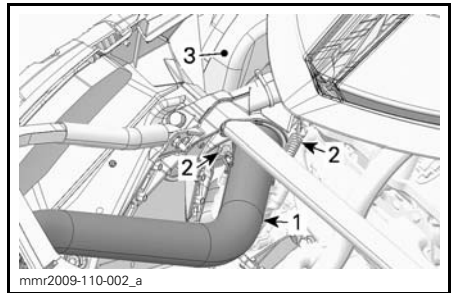
1200 4-TEC

4. Remove exhaust pipe:
 - 4.1 Remove LH side panel and hood. Refer to *CONTROLS, INSTRUMENTS AND EQUIPMENT*.
 - 4.2 Remove the springs retaining the exhaust pipe to the muffler and exhaust manifold using the following tool.

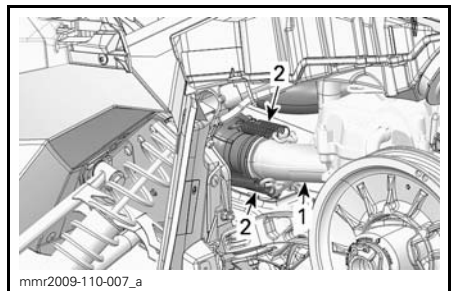
SPRING
INSTALLER/REMOVER
(P/N 529 035 983)



⚠ CAUTION Wear protective eye glasses when removing exhaust components. Beware of sudden spring tension release.



1. Exhaust pipe
2. Exhaust springs
3. Muffler



AIR INTAKE SILENCER REMOVED FOR CLARITY

1. Exhaust manifold
2. Exhaust springs (4)

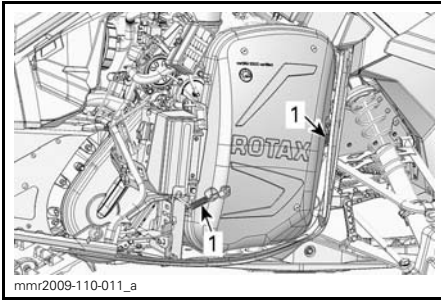
- 4.3 Move the exhaust pipe forward to free its retaining rod from the rubber damper.

NOTICE Do not drop the exhaust gaskets.

All Models

5. Remove muffler:

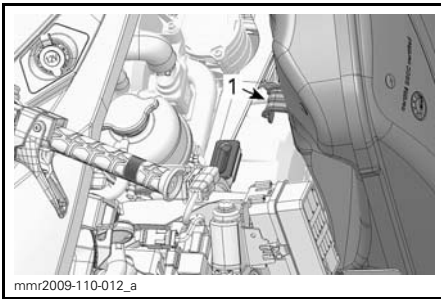
- 5.1 Remove springs retaining the muffler to the chassis.



TYPICAL

1. Exhaust springs

- 5.2 Lift up muffler to free the retaining hook.



1. Retaining hook

- 5.3 Remove muffler.

Inspect doughnut shaped muffler gasket and replace if necessary.

To install muffler, reverse removal procedure.

Spark Plugs

Spark plugs inspection or replacement must be done by an authorized Ski-Doo dealer.

⚠ WARNING

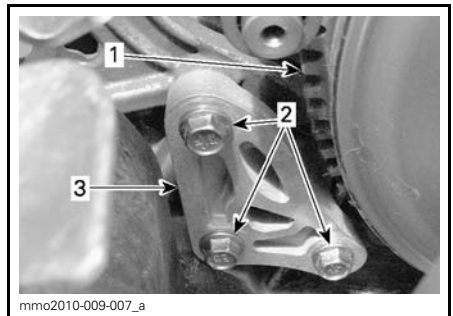
To avoid fire hazard, never attempt to check spark efficiency at spark plugs or spark plug wires and never remove spark plugs on a E-TEC engine.

Engine Stopper (600 HO E-TEC)

Engine Stopper Adjustment

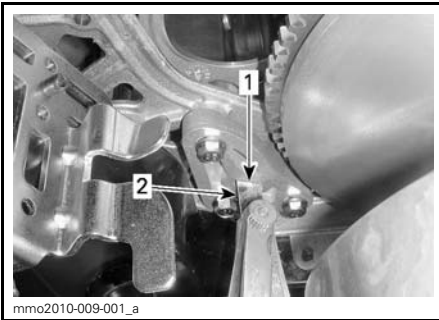
The engine stopper is located on the LH front engine support, in front of the drive pulley.

1. Remove tether cord cap from engine cut-off switch.
2. Remove drive belt guard, refer to *CONTROLS, INSTRUMENTS AND EQUIPMENT* in this section.
3. Loosen the three screws retaining the engine stopper to the engine support just enough to allow a vertical play (1/2 to one turn).



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

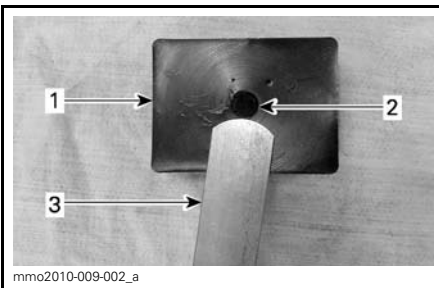
4. Insert a 0.5 mm (.02 in) feeler gauge in the engine stopper opening (see illustration).



1. Opening
2. Feeler gauge

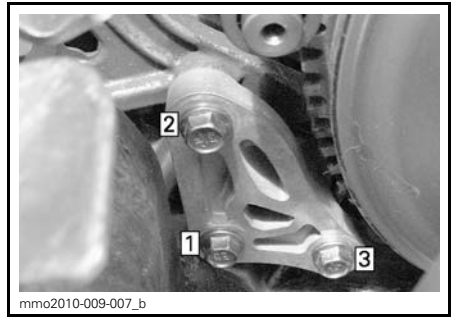
5. Place feeler gauge between engine stopper and rubber stop block (on engine).

NOTE: Do not insert the feeler gauge too deep, as it will pass over the bump at the surface of the rubber stop block and alter adjustment. See illustration.



1. Rubber stop block
2. Bump
3. Feeler gauge

6. Tighten screws to the specified torque, following the illustrated sequence. Take care not to pinch the feeler gauge.



TIGHTENING SEQUENCE

STOPPER SCREW TIGHTENING TORQUE

10 N•m ± 2 N•m (89 lbf•in ± 18 lbf•in)

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

Brake Fluid

Recommended Brake Fluid

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

⚠ WARNING

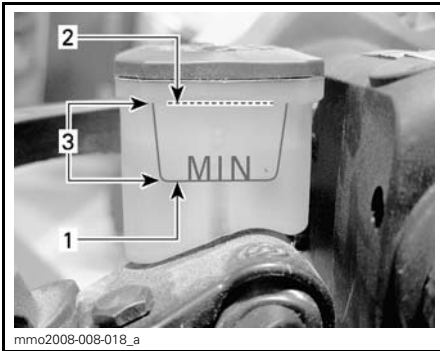
Use only DOT 4 brake fluid from a sealed container. To avoid serious damage to the braking system, do not use fluids other than the recommended one, nor mix different fluids for topping up.

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

Brake Fluid Level Verification

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

Check brake fluid in reservoir for proper level. Add recommended brake fluid as required.



1. Minimum
2. Maximum
3. Operating range

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

Chaincase Oil

Recommended Chaincase Oil

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

NOTICE The chaincase of this snowmobile has been developed and validated using the XPS™ Synthetic chaincase oil. BRP strongly recommends the use of its XPS Synthetic chaincase oil at all times. Damages caused by oil which is not suitable for the chaincase will not be covered by the BRP limited warranty.

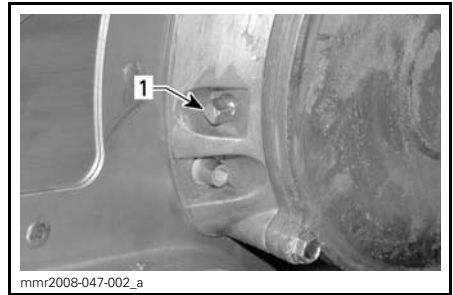
Access to Chaincase

Open RH side panel, refer to *CONTROLS, INSTRUMENTS AND EQUIPMENT*.

Chaincase Oil Level Verification

With the vehicle on a level surface, check the oil level by removing the check.

600 HO E-TEC Models



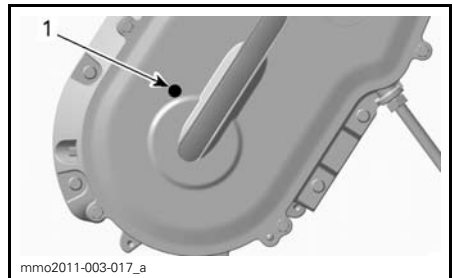
TYPICAL - 600 HO E-TEC MODELS

1. Magnetic check plug

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

Remove metal particles from magnetic check plug.

1200 4-TEC Models



TYPICAL - 1200 4-TEC MODELS

1. Check plug

All Models

Oil level must reach the threaded hole.

Chaincase Filling Procedure

Remove the check plug.

Remove the filler cap on the chaincase cover.



TYPICAL - TOP OF CHAINCASE

1. Filler cap

Pour recommended oil in chaincase by the filler hole until oil comes out by the check plug hole.

Reinstall check plug and torque to $6\text{ N}\cdot\text{m} \pm 1\text{ N}\cdot\text{m}$ ($53\text{ lbf}\cdot\text{in} \pm 9\text{ lbf}\cdot\text{in}$).

Reinstall the filler cap.

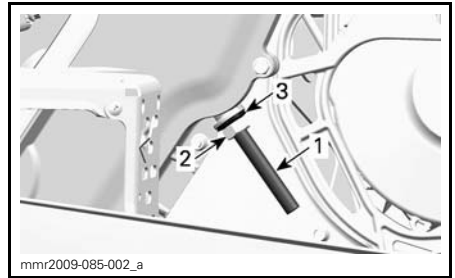
Drive Chain

Access to Chaincase

Open RH side panel, refer to *CONTROLS, INSTRUMENTS AND EQUIPMENT*.

Drive Chain Adjustment

1. Remove muffler, refer to *EXHAUST SYSTEM* in this subsection.
2. Unscrew tensioner lock nut several turns.



1. Tensioner adjustment screw
2. Lock nut
3. Seal washer

3. Unscrew tensioner adjustment screw a few turns.
4. Pull seal washer back.
5. Clean adjustment screw threads if necessary.

NOTICE Adjustment screw threads must be clean to obtain an accurate adjustment.

6. Tighten tensioner adjustment screw by hand.

NOTE: Turn adjustment screw until resistance is strong enough that it can not be turned by hand.

7. Hold tensioner adjustment screw and tighten lock nut to $36\text{ N}\cdot\text{m} \pm 3\text{ N}\cdot\text{m}$ ($27\text{ lbf}\cdot\text{ft} \pm 2\text{ lbf}\cdot\text{ft}$).
8. Install muffler.

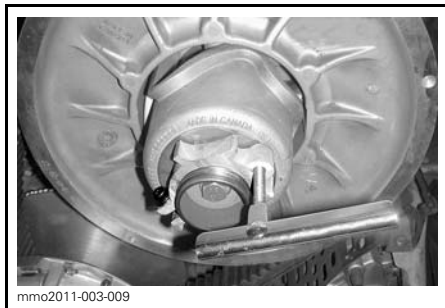
Drive Belt

Drive Belt Inspection

Inspect drive 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 drive belt or distorted spare drive belt. Contact an authorized Ski-Doo dealer.

Drive Belt Removal

1. Remove tether cord cap from engine cut-off switch.
2. Remove drive belt guard, refer to *CONTROLS, INSTRUMENTS AND EQUIPMENT*.
3. Insert the driven pulley expander provided in the tool kit in the threaded hole on the adjuster hub as shown.



PULLEY EXPANDER INSTALLED ON ADJUSTER HUB

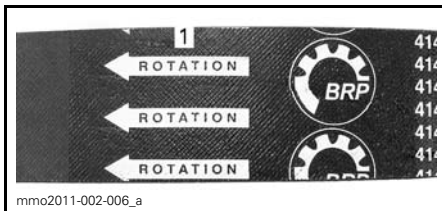
4. Open the driven pulley by screwing the tool in.
5. Remove the drive belt by slipping it over the top of the driven pulley, then over the drive pulley.

Drive Belt Installation

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

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

NOTE: The maximum drive belt life span is obtained when drive belt is installed with arrows in the direction of rotation.



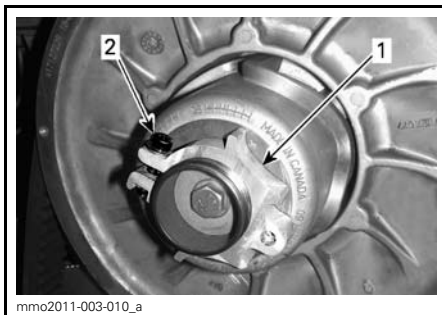
1. To be pointed in the direction of rotation
3. Unscrew and remove the driven pulley expander from the pulley.
4. Rotate the driven pulley several times to properly set the drive belt between the sheaves.
5. If a new drive belt was installed, adjust the drive belt height. Refer to *DRIVE BELT HEIGHT ADJUSTMENT* below.
6. Install drive belt guard and close side panel, refer to *CONTROLS, INSTRUMENTS AND EQUIPMENT*.

Drive Belt Height Adjustment

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

To adjust the drive belt height, proceed as follows:

1. Remove tether cord cap from engine cut-off switch.
2. Remove drive belt guard, refer to *CONTROLS, INSTRUMENTS AND EQUIPMENT*.
3. Loosen the clamping screw.



1. Adjuster hub
2. Clamping screw

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



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1. Suspension adjustment tool

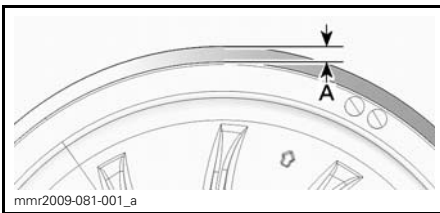
NOTE: The adjustment ring has left hand threads.

1200 4-TEC Models

Repeat step 5 until the external surface of drive belt is even with the driven pulley edge.

E-TEC Models

Repeat step 5 until the external surface of drive belt exceeds driven pulley edge by 0 mm to 2 mm (0 in to .08 in).



mm2009-081-001_a

TYPICAL - PRELIMINARY SETTING
A. 0 mm to 2 mm (0 in to .08 in)

All Models

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

- Firmly tighten the clamping screw. If possible, tighten to $5.5 \text{ N}\cdot\text{m} \pm 0.5 \text{ N}\cdot\text{m}$ ($49 \text{ lb}\cdot\text{ft} \pm 4 \text{ lb}\cdot\text{ft}$) using a torque wrench.
- Install drive belt guard, refer to *CONTROLS, INSTRUMENTS AND EQUIPMENT*.
- Install side panel, refer to *CONTROLS, INSTRUMENTS AND EQUIPMENT*.

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

If the vehicle creeps, lower the drive belt height from the preliminary setting. Repeat procedure until creeping stops.

Reverse Activation

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

Drive Pulley

Drive Pulley Adjustment

⚠ WARNING

Remove the tether cord cap from engine cut-off switch before performing any adjustment. Vehicle must be parked in a safe place, away from the trail.

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

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

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

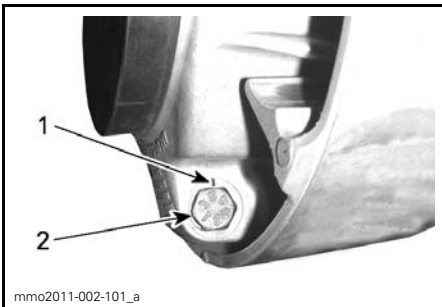
ENGINE	MAXIMUM HORSEPOWER RPM
600 HO E-TEC	8100 RPM (± 100)
1200 4-TEC	7800 RPM (± 100)

NOTE: Use precision digital tachometer for engine RPM adjustment.

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

The calibration screws have 6 different settings identified by numbers scribed on their head.

The actual setting is the screw head number aligned with the mark on the pulley.



PULLEY SETTING

1. Mark
2. Number

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 screws initially set at position 4 and changed to position 6 will increase maximum engine RPM by 400 RPM.

Procedure

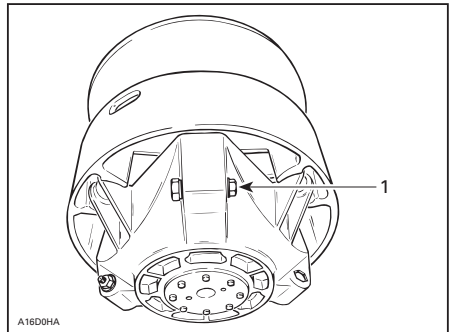
Loosen the lock nut just enough to get the calibration screw head out of the pulley and rotate to the desired position.

NOTE: Do not completely remove the lock nut.

Set all 3 calibration screws to the same position.

Tighten lock nuts to 10 N•m ± 2 N•m (89 lbf•in ± 18 lbf•in).

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



TYPICAL

1. Loosen just enough to permit rotating of calibrate screw

⚠ WARNING

NEVER disassemble or modify the drive pulley. Improper assembly or modifications could cause the pulley to explode violently under the stress generated by the high rotational speed. See your Ski-Doo dealer to maintain or service the drive pulley. Improper servicing or maintenance may affect performance and reduce drive belt life. Always respect maintenance schedules.

⚠ WARNING

NEVER operate engine:

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

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

Track

Track Condition

⚠ WARNING

Remove tether cord cap from engine cut-off switch 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 from engine cut-off switch.

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

Snowmobiles Equipped with Traction Enhancing Products

If your snowmobile is equipped with a BRP approved studded track, refer to *INSPECTION OF A STUDDED TRACK* in the *TRACTION ENHANCING PRODUCTS* subsection.

⚠ WARNING

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

Track Tension and Alignment

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

⚠ WARNING

To prevent serious injury to individuals near the snowmobile:

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

Centrifugal force could cause debris, 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.

Track Tension Verification

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

1. Remove tether cord cap from engine cut-off switch.
2. Lift rear of vehicle and support it off the ground.

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

3. Allow rear suspension to fully extend.
4. Use the TENSIO METER (P/N 414 348 200).



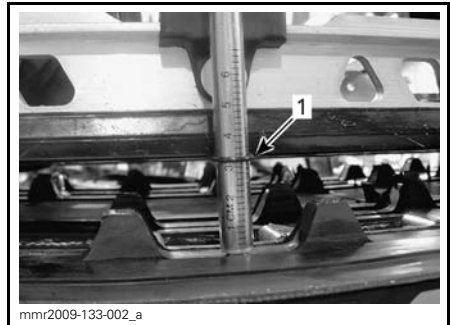
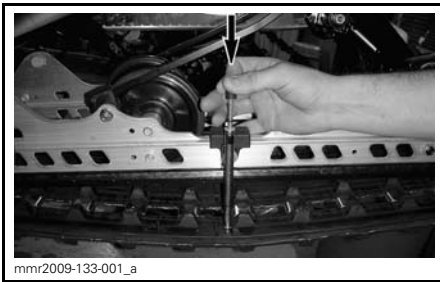
5. Set deflection between 30 mm and 35 mm (1-3/16 in and 1-3/8 in) using bottom O-ring.



DEFLECTION SETTING

1. Bottom O-ring

6. Place upper O-ring to 0 kgf (0 lbf).
7. Position the tensiometer on track, halfway between front and rear idler wheels.
8. Push the tensiometer downwards until bottom O-ring (deflection set earlier) be aligned with the bottom of slider shoe.



1. Deflection O-ring aligned with slider shoe

9. Read load recorded by the upper O-ring on the tensiometer.



LOAD READING

1. Upper O-ring

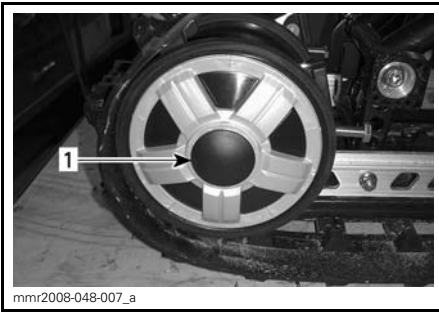
10. Load reading must be as per the following table.

TRACK ADJUSTMENT SPECIFICATION	
Track deflection setting	30 mm - 35 mm (1-3/16 in - 1-3/8 in)
Track load reading	7.3 kg (16 lb)

11. If load reading is not in accordance with the specification, adjust track tension. Refer to **TRACK TENSION ADJUSTMENT**.

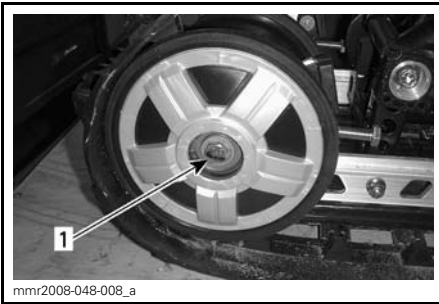
Track Tension Adjustment

1. Remove tether cord cap from engine cut-off switch.
2. Remove rear wheel caps (if so equipped).



1. RH rear idler wheel cap

3. Loosen the rear idler wheel retaining screws.



1. RH rear idler wheel bolt

4. Tighten or loosen both adjustment screws to increase or decrease track tension.



1. RH adjustment screw

5. If correct tension is unattainable, contact an authorized Ski-Doo dealer.

6. Retighten retaining bolts to $48 \text{ N}\cdot\text{m} \pm 6 \text{ N}\cdot\text{m}$ ($35 \text{ lbf}\cdot\text{ft} \pm 4 \text{ lbf}\cdot\text{ft}$).

7. Check track alignment as described below.

Track Alignment

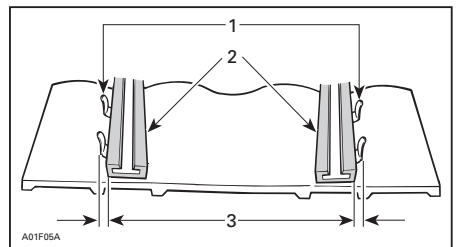
⚠ WARNING

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

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

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

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



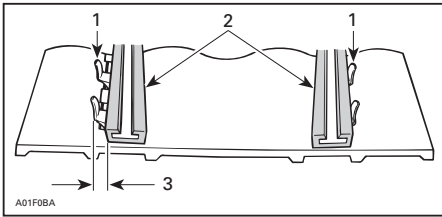
1. Guides
2. Slider shoes
3. Equal distance

If off center, perform alignment as follows:

⚠ WARNING

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

1. Remove the from engine cut-off switch tether cord cap.
2. Loosen rear idler wheel retaining bolts.
3. Tighten the adjustment bolt on side where the slider shoe is the farthest from the track insert guides.

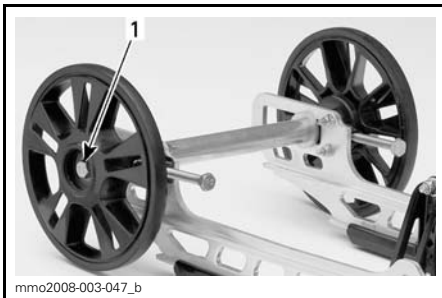


1. Guides
2. Slider shoes
3. Tighten on this side

4. Tighten retaining bolts.

⚠ WARNING

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



TYPICAL

1. Retighten to $48\text{ N}\cdot\text{m} \pm 6\text{ N}\cdot\text{m}$ ($35\text{ lbf}\cdot\text{ft} \pm 4\text{ lbf}\cdot\text{ft}$)

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

Suspension

Rear Suspension Condition

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

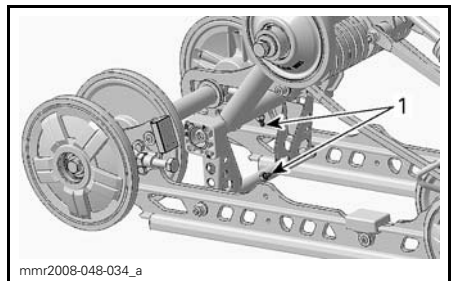
NOTE: During normal driving, snow will act as a lubricant and coolant for the slider shoes. Extensive riding on ice or sanded snow, will create excessive heat build-up and cause premature slider shoe wear.

Suspension Stopper Strap Condition

Inspect stopper strap for wear and cracks, bolt and nut for tightness. If loose inspect holes for deformation. Replace as required. Torque nut to $10\text{ N}\cdot\text{m} \pm 1\text{ N}\cdot\text{m}$ ($89\text{ lbf}\cdot\text{in} \pm 9\text{ lbf}\cdot\text{in}$).

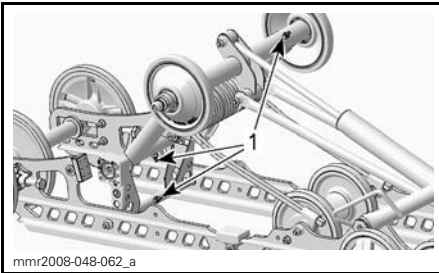
Rear Arm Lubrication

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



MX Z AND GSX SERIES

1. Grease fittings



RENEGADE AND GRAND TOURING SERIES

1. Grease fittings

Steering and Front Suspension Condition

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

Skis

Wear and Condition of Skis and Runners

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

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

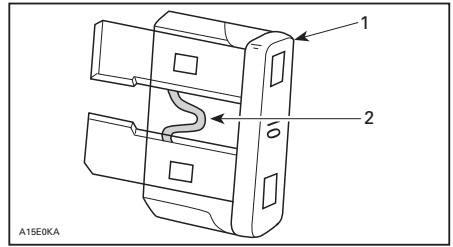
Fuses

Fuse Inspection

The electrical system is protected with fuses.

Check fuse condition and replace it if necessary.

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



1. Fuse
2. Check if melted

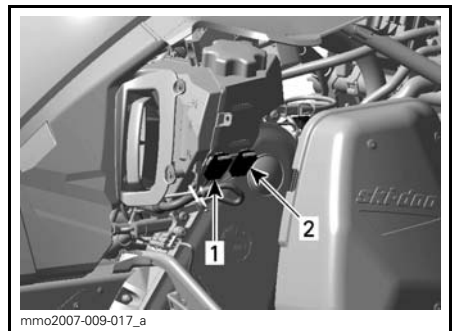
NOTICE Do not use a higher rated fuse as this can cause severe damage to electrical components and/or be a potential fire.

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

Fuse Location

Remove RH side panel, refer to *BODY*.

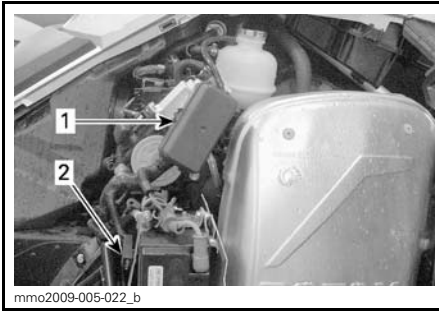
600 HO E-TEC



TYPICAL - RH SIDE OF ENGINE COMPARTMENT

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

1200 4-TEC



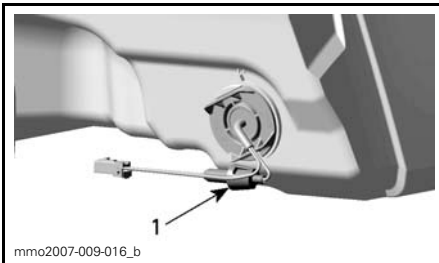
RH SIDE OF ENGINE COMPARTMENT

1. Fuse box
2. 30 A charging system fuse

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

All Models

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



BEHIND AIR INTAKE SILENCER

1. Fuse location

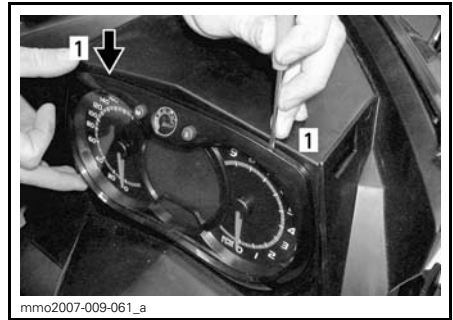
Lights

Always check light operation after bulb replacement.

Headlights Bulb Replacement

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

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

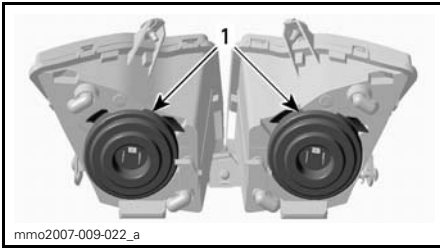


1. Locking tab

2. Gently pull on multifunction gauge and set aside.

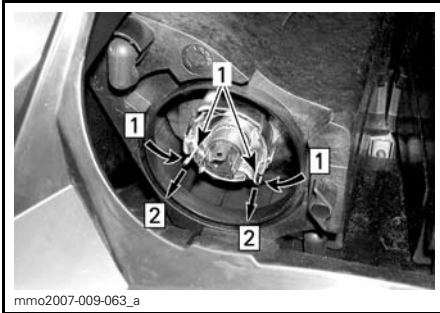


3. Disconnect burnt bulb connector. Remove the rubber boot.



1. Rubber boots

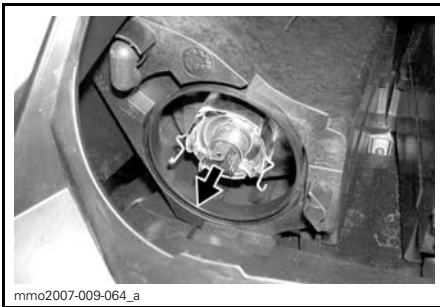
4. Press and pull both sides of the retaining clip at the same time to release it from bulb support.



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

1. Retaining clip

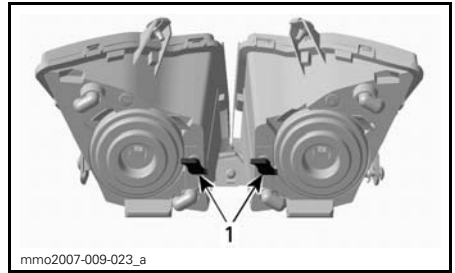
5. Pull bulb and replace. Properly re-install parts.



PULL BULB AND REPLACE

Headlights Beam Aiming

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



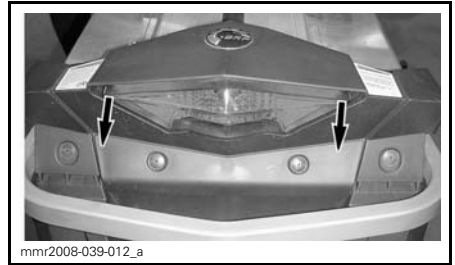
TYPICAL

1. Knobs

Taillight Bulb Replacement

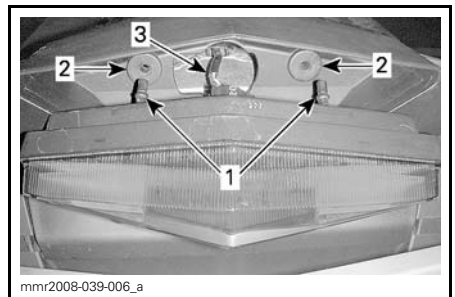
Single Passenger Models

1. Remove taillight housing by carefully pulling on lens at both ends using an equal force.



TYPICAL - CAREFULLY PULL OUT AT CORNERS

NOTICE If taillight housing is not removed perpendicularly to the taillight holder, mounting pins may break and taillight housing will have to be replaced.



1. Taillight housing retaining pins
2. Retaining grommets
3. Light wire harness

NOTICE Do not pull taillight housing out too far to avoid damaging wiring.

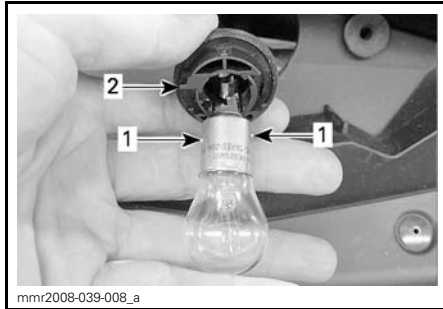
2. Rotate bulb socket counterclockwise to remove it from taillight housing.
3. Push in and rotate bulb counterclockwise to remove it from its socket.
4. Install the new bulb by pushing it in the socket and turning it clockwise.

NOTE: Note position of bulb locking pins on its base, and socket alignment key.

2. Remove the screws retaining the taillight housing.



1. Taillight housing retaining screws



1. Bulb locking pins
2. Bulb holder alignment key

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

Dual Passenger Models

To expose bulbs, proceed as follows:

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



1. Taillight cover

VEHICLE CARE

Post-Operation Care

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

Wax painted portion of the vehicle for better protection.

NOTE: Apply wax on glossy finish only.

WARNING

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

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

Vehicle Cleaning and Protection

Remove any dirt or rust.

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

NOTICE It is necessary to use flannel cloths or equivalent on windshield and hood to avoid scratching the surfaces.

To remove grease, oil and grime, use BRP HEAVY DUTY CLEANER (P/N 293 110 001).

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

To remove stubborn dirt from all plastic and vinyl surfaces, use XPS MULTI-PURPOSE CLEANER (P/N 219 701 709).

To remove scratches on windshield or hood use the SCRATCH REMOVER KIT (P/N 861 774 800).

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

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TECHNICAL INFORMATION

VEHICLE IDENTIFICATION

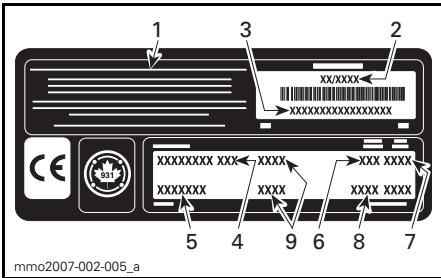
Vehicle Description Decal

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



TYPICAL

1. Vehicle description decal



VEHICLE DESCRIPTION DECAL

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

Identification Numbers

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

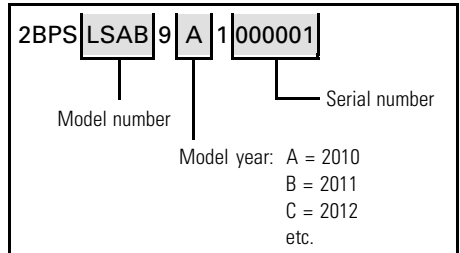
ommend that you take note of all the identification numbers on your snowmobile and supply them to your insurance company.

Vehicle Identification Number (V.I.N.)

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

Model Number Location

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

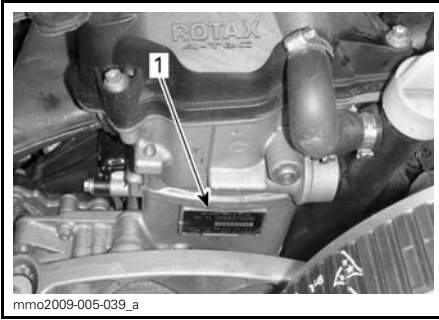


Engine Identification Number



TYPICAL - 600 HO E-TEC ENGINE

1. Engine identification number



1200 4-TEC ENGINE

1. Engine identification number

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

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

EPA CERTIFIED ENGINES

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

Engine Emissions Information

Manufacturer's Responsibility

Beginning with 2007 model year engines, snowmobile manufacturers of snowmobile engines need to determine the exhaust emission levels for each engine horsepower family and certify these engines with the United States of America Environmental Protection Agency (EPA). An emissions control information label, showing emission levels and engine specifications, must be placed on each vehicle at the time of manufacture.

Dealer's Responsibility

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

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

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

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

Owner Responsibility

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

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

EPA Emission Regulations

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

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

MAIL:

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

INTERNET WEB SITE:

www.epa.gov/otaq/

SPECIFICATIONS

600 HO E-TEC

MODEL		600 HO E-TEC
ENGINE		
Engine type	Rotax® 593, liquid cooled w/Reed valve, 3D-RAVE	
Cylinders	2	
Displacement	594.4 cm ³ (36.3 in ³)	
Bore	72 mm (2.83 in)	
Stroke	73 mm (2.87 in)	
Maximum horsepower engine RPM	8100 RPM	
Exhaust system	Single tuned pipe, baffle muffler	
Engine oil	XPS SYNTHETIC BLEND 2-STROKE OIL (P/N 293 600 100)	
Engine oil tank capacity	3.7 L (3.9 qt (U.S. liq.))	
Engine coolant	Ethyl glycol/water mix (50% coolant, 50% distilled water). Use BRP premix coolant or coolant specifically designed for aluminum engines	
FUEL SYSTEM		
Fuel injection system	E-TEC Direct injection	
Recommended fuel type	Super unleaded	
Minimum octane	Inside North America	91 (RON + MON)/2
	Outside North America	95 RON
Fuel tank capacity	40 L (10.6 U.S. gal.)	
DRIVE SYSTEM		
Drive pulley type	TRA™ III	
Driven pulley type	QRS	
Engagement	3400 RPM	
Small sprocket number of teeth	23	
Large sprocket number of teeth	45	
Drive sprocket number of teeth	8	
Chaincase oil	XPS SYNTHETIC CHAINCASE OIL (P/N 413 803 300)	
Chaincase oil capacity	250 ml (8.5 U.S. oz)	
Track nominal width	381 mm (15 in)	
Track nominal length	3 487 mm (137 in)	

MODEL		600 HO E-TEC
DRIVE SYSTEM (cont'd)		
Track profile height		25.4 mm (1 in)
Track tension	Deflection	30 mm - 35 mm (1-3/16 in - 1-3/8 in)
	Force ⁽¹⁾	7.3 kg (16 lb)
Track alignment		Equal distance between edges of track guides and slider shoes
BRAKE SYSTEM		
Brake system		Hydraulic, REV-XP brake type
Brake fluid		DOT 4
SUSPENSION		
Front suspension		REV-XP
Front shock		HPG
Front suspension max. travel		229 mm (9 in)
Rear suspension		SC-5
Center shock		MC
Rear shock		HPG-VR
Rear suspension max. travel		406 mm (16 in)
ELECTRICAL SYSTEM		
Lightning system output		12 V/360 W 55 V/1100 W
Headlights bulb HI/LOW beam		2 x 60/55 Watts (H-4)
Taillight bulb		2 x P 21/5 W
Spark plug	Type	NGK PZFR6F ⁽²⁾
	Gap	0.7 mm - 0.8 mm (.028 in - .031 in) (Not adjustable)
Fuses		Refer to <i>FUSES</i> section
WEIGHT AND DIMENSIONS		
Dry weight		244 kg (538 lb)
Vehicle overall length		322.6 cm (127 in)
Vehicle overall width		121.7 cm (47.9 in)
Ski stance		107.7 cm (42.4 in)
Ski width		145 mm (5.7 in)

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

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

1200 4-TEC

MODEL		1200 4-TEC
ENGINE		
Engine type	Rotax 1203, liquid cooled, 4-Stroke, D.O.H.C. with balancer shaft, dry sump	
Cylinders	3	
Displacement	1 170.7 cm ³ (71.4 in ³)	
Bore	91 mm (3.58 in)	
Stroke	60 mm (2.36 in)	
Maximum horsepower engine RPM	7800 RPM	
Exhaust system	Exhaust pipe, muffler	
Engine oil	XPS SYNTHETIC OIL (WINTER GRADE) (P/N 293 600 112)	
Engine oil tank capacity	Oil change with filter: 3.5 L (3.7 qt (U.S. liq.))	
Engine coolant	Ethyl glycol/water mix (50% coolant, 50% distilled water). Use BRP premix coolant or coolant specifically designed for aluminum engines	
FUEL SYSTEM		
Fuel injection system	Multi point EFI, 52 mm heated throttle body	
Recommended fuel type	Regular unleaded	
Minimum octane	Inside North America	(87 (RON + MON)/2)
	Outside North America	92 RON
Fuel tank capacity	40 L (10.6 U.S. gal.)	
DRIVE SYSTEM		
Drive pulley type	TRA IV	
Driven pulley type	QRS	
Engagement	2500 RPM	
Small sprocket number of teeth	24	

MODEL		1200 4-TEC
DRIVE SYSTEM (cont'd)		
Large sprocket number of teeth	MX Z TNT MX Z X GSX LE	43
	Renegade Adrenaline Renegade X GSX SE Grand Touring LE Grand Touring SE (Can/US)	45
	Grand Touring SE (Eur)	49
Drive sprocket number of teeth		8
Chaincase oil		XPS synthetic chaincase oil
Chaincase oil capacity		500 ml (16.9 U.S. oz)
Track nominal width	MX Z TNT MX Z X GSX LE GSX SE Grand Touring LE Grand Touring SE (Can/US)	381 mm (15 in)
	Renegade Adrenaline Renegade X Grand Touring SE (Eur)	406 mm (16 in)
Track nominal length	MX Z TNT MX Z X GSX LE	3 051 mm (120 in)
	Renegade Adrenaline Renegade X GSX SE Grand Touring LE Grand Touring SE	3 487 mm (137 in)
Track profile height	MX Z TNT GSX LE GSX SE Grand Touring LE Grand Touring SE (Can/US)	25.4 mm (1 in)
	MX Z X Renegade Adrenaline Renegade X (Can/US) Grand Touring SE (Eur)	31.8 mm (1.25 in)
	Renegade X (Eur)	44.5 mm (1.75 in)
Track tension	Deflection	30 mm - 35 mm (1-3/16 in - 1-3/8 in)
	Force ⁽¹⁾	7.3 kg (16 lb)
Track alignment		Equal distance between edges of track guides and slider shoes

SPECIFICATIONS

MODEL		1200 4-TEC
BRAKE SYSTEM		
Brake system		Hydraulic, REV-XP brake type
Brake fluid		DOT 4
SUSPENSION		
Front suspension		REV-XP
Front shock	GSX LE GSX SE Grand Touring LE Grand Touring SE	HPG
	MX Z TNT Renegade Adrenaline	HPG Plus
	MX Z X Renegade X	HPG Plus R
Front suspension max. travel		229 mm (9 in)
Rear suspension		SC-5
Center shock	GSX LE Grand Touring LE	MC
	Renegade Adrenaline GSX SE Grand Touring SE	HPG
	MX Z TNT MX Z X Renegade X	HPG Plus
	Others	
Rear shock	Renegade Adrenaline	HPG
	GSX LE Grand Touring LE	HPG-VR
	MX Z TNT	HPG Plus
	MX Z X Renegade X	KYB PRO 36
	GSX SE Grand Touring SE	ACS (Air Control Suspension)
Rear suspension maximum travel	MX Z TNT MX Z X GSX LE	381 mm (15 in)
	Renegade Adrenaline Renegade X GSX SE Grand Touring LE Grand Touring SE	406 mm (16 in)

MODEL		1200 4-TEC
ELECTRICAL SYSTEM		
Lightning system output		12 V/490 W
Headlights bulb HI/LOW beam		2 x 60/55 Watts (H-4)
Taillight bulb		2 x P 21/5 W
Spark plug	Type	NGK CR8EKB ⁽²⁾
	Gap	Not adjustable
Fuses	F1: Cluster/heater element	15 A
	F2: Fuel pump/starter solenoid/C.A.P.S.	10 A
	F3: Cylinder 3	5 A
	F4: Cylinder 2	5 A
	F5: Cylinder 1	5 A
	F6: Taillight/heat element/air suspension	20 A
	F7: Headlights	15 A
	F8: E-Reverse	20 A
	F9: Start button/clock	5 A
	F10: Rear accessories	15 A
	F11: Fan	15 A
WEIGHT AND DIMENSIONS		
Dry weight	MX Z TNT	226 kg (498 lb)
	MX Z X	231 kg (509 lb)
	Renegade Adrenaline GSX LE	240 kg (529 lb)
	Renegade X	235 kg (518 lb)
	GSX SE	249 kg (549 lb)
	Grand Touring LE	265 kg (584 lb)
	Grand Touring SE	272 kg (600 lb)
Vehicle overall length	MX Z TNT MX Z X GSX LE	290.5 cm (114.4 in)
	Renegade Adrenaline Renegade X GSX SE	311 cm (122.4 in)
	Grand Touring LE Grand Touring SE	322.6 cm (127 in)
	Vehicle overall width	121.7 cm (47.9 in)

SPECIFICATIONS

MODEL		1200 4-TEC
WEIGHT AND DIMENSIONS (cont'd)		
Ski stance		1 077 mm (42.4 in)
Ski width	MX Z TNT MX Z X GSX LE GSX SE Renegade Adrenaline Renegade X (Can/US) Grand Touring LE Grand Touring SE (Can/US)	145 mm (5.7 in)
	Renegade X (Eur) Grand Touring SE (Eur)	175 mm (6.9 in)

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

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

TROUBLESHOOTING

TROUBLESHOOTING GUIDELINES (E-TEC)

ELECTRIC STARTER DOES NOT WORK

1. Emergency engine stop switch in OFF position or tether cord cap not installed on engine cut-off switch.
 - *Place the emergency engine stop switch in the ON position and install tether cord cap on engine cut-off switch.*
2. Throttle applied while attempting an engine start.
 - *Release throttle while cranking.*

ENGINE IS CRANKED BUT FAILS TO START

1. No fuel to the engine.
 - *Check fuel tank level, add fuel if necessary.*
2. System voltage too low.
 - *Contact an authorized Ski-Doo dealer.*

ENGINE RPM DOES NOT REACH CLUTCH ENGAGEMENT POINT

1. D.E.S.S. key not recognized. D.E.S.S. pilot lamp blinks (slow short beeps/repetitive).
 - *Properly install tether cord cap (D.E.S.S. key).*
 - *Install a tether cord cap with the D.E.S.S. key for which this snowmobile was programmed.*

ENGINE OVERHEATS

1. Insufficient snow or hard packed snow.
 - *Drive in loose snow. If there is no loose snow near, pull over, stop engine and let it cool down. Once engine has cooled down, reach loose snow as soon as possible.*
2. Low coolant level.
 - *Check coolant level, see MAINTENANCE PROCEDURES.*
3. Clogged heat exchangers
 - *Clean heat exchangers.*
4. Rear suspension adjusted too high (too much distance between the snow guard and the ground)

ENGINE LACKS OF POWER/VEHICLE DOES NOT REACH FULL SPEED

1. Engine warm-up in progress (E-TEC).
 - *Drive vehicle at low speeds for a few minutes.*
2. Engine break-in period not completed (E-TEC).
 - *Complete break-in period.*
3. Incorrect drive pulley adjustment.
 - *Adjust drive pulley, refer to MAINTENANCE PROCEDURES.*
4. Drive and driven pulleys require servicing.
 - *Contact an authorized Ski-Doo dealer.*

ENGINE LACKS OF POWER/VEHICLE DOES NOT REACH FULL SPEED (cont'd)

5. 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.*

6. Incorrect track adjustment.

- *See MAINTENANCE INFORMATION and/or an authorized Ski-Doo dealer for proper alignment and tension adjustments.*

7. RAVE valves problem (E-TEC).

- *Contact an authorized Ski-Doo dealer.*

8. Fuel pressure too low.

- *Contact an authorized Ski-Doo dealer.*

ENGINE BACKFIRES

1. Engine is running too hot.

- *See ENGINE OVERHEATS.*

2. Ignition timing is incorrect or there is an ignition system failure.

- *Contact an authorized Ski-Doo dealer.*

3. Exhaust system leak.

- *Contact an authorized Ski-Doo dealer.*

4. Fuel pressure too low.

- *Contact an authorized Ski-Doo dealer.*

ENGINE MISFIRES

1. Water in fuel.

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

2. RAVE valves malfunction (E-TEC).

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

REVERSE DOES NOT ENGAGE

1. Incorrect shifting procedure.

- *Make sure to follow correct shifting procedure, refer to OPERATING IN REVERSE in OPERATING INSTRUCTIONS.*

2. Incorrect drive belt height.

- *Adjust drive belt properly, refer to DRIVE BELT in MAINTENANCE PROCEDURES.*

TROUBLESHOOTING GUIDELINES (1200 4-TEC)

STARTER DOES NOT WORK

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

ENGINE RPM DOES NOT REACH CLUTCH ENGAGEMENT POINT

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

ENGINE OVERHEATS

1. Insufficient snow or hard packed snow.
 - *Drive in loose snow. If there is no loose snow near, pull over, stop engine and let it cool down. Once engine has cooled down, reach loose snow as soon as possible.*
2. Low coolant level.
 - *Check coolant level, see MAINTENANCE PROCEDURES.*
3. Clogged heat exchangers
 - *Clean heat exchangers.*
4. Rear suspension adjusted too high (too much distance between the snow guard and the ground)

ENGINE LACK OF POWER/VEHICLE DOES NOT REACH FULL SPEED

1. Drive and driven pulleys require servicing.
 - *Contact an authorized Ski-Doo dealer.*
2. 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.*
3. Incorrect track adjustment.
 - *See MAINTENANCE INFORMATION and/or an authorized Ski-Doo dealer for proper alignment and tension adjustments.*

ENGINE MISFIRES

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

REVERSE DOES NOT ENGAGE

1. Incorrect shifting procedure.

- *Make sure to follow correct shifting procedure, refer to OPERATING IN REVERSE in OPERATING INSTRUCTIONS.*

2. Incorrect drive belt height.

- *Adjust drive belt properly, refer to DRIVE BELT in MAINTENANCE PROCEDURES.*

MONITORING SYSTEM

Pilot Lamps, Messages and Beeper Codes

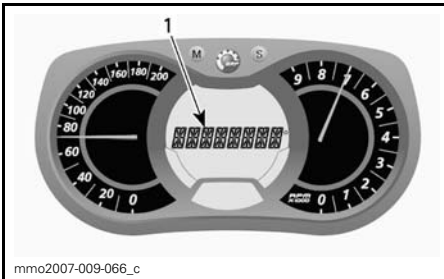
Gauge pilot lamp(s) will inform you if an anomaly occurs or to inform you of a particular condition.



TYPICAL — PILOT LAMPS

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

On the multifunction analog/digital gauge, the display is used as a complement of the pilot lamps to give you a brief description if an anomaly occurs or to inform you of a particular condition.



1. Message display



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


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

See table below for details.

NOTE: Some of the listed pilot lamps and messages do not apply to all models. Message display only available on the multifunction analog/digital gauge.

PILOT LAMP(S)		BEEPER	MESSAGE DISPLAY	DESCRIPTION
	Blinking	3 short beeps	REV. FAIL	Reverse did not engage, try again. If reverse still fails to engage, see <i>TROUBLESHOOTING</i> .
	Blinking, then ON	4 short beeps every 30 seconds	ENGINE OVERHEAT	Engine is overheating, run in loose snow or stop engine immediately and let engine cool down. Check coolant level, refer to <i>MAINTENANCE</i> . If coolant level is correct and overheating persists, contact an authorized Ski-Doo dealer. Do not run the engine if condition persists.
		4 short beeps every 5 minutes	MUFFLER	Reduce speed or stop engine. Let engine cool down and restart. If overheating persists, contact an authorized Ski-Doo dealer. Do not run the engine if condition persists.
	Blinking, then ON	Short beeps repeating rapidly	ENGINE OVERHEAT	Critical overheat. Stop engine immediately and let engine cool down. Check coolant level, refer to <i>MAINTENANCE</i> . If coolant level is correct and overheating persists, contact an authorized Ski-Doo dealer. Do not run the engine if condition persists.
			MUFFLER OVERHEAT	Critical overheat. Stop engine immediately and let engine cool down. If overheating persists, contact an authorized Ski-Doo dealer. Do not run the engine if condition persists. Do not run the engine if condition persists.
			ECM OVERHEAT	
	ON	4 short beeps every 5 minutes	LOW OIL	Four stroke engines: Low engine oil pressure. Stop vehicle in a safe place then, check oil level. Fill to proper level. If oil level was correct, discontinue use and contact an authorized Ski-Doo dealer. Two stroke engine: Injection oil level is low. Stop vehicle in a safe place then, replenish injection oil reservoir.

PILOT LAMP(S)		BEEPER	MESSAGE DISPLAY	DESCRIPTION
	ON	4 short beeps every 5 minutes	LOW BAT	Indicate a low or high battery voltage condition. See an authorized Ski-Doo dealer as soon as possible.
			HIGH BAT	
	Blinking, then ON	4 short beeps	CHECK ENGINE	Engine fault, see an authorized Ski-Doo dealer as soon as possible.
—	—	4 short beeps every 5 minutes	KNOCK	Engine detonation (RPM is limited when this condition occurs). <ul style="list-style-type: none"> – Ensure recommended fuel is used. – Check fuel quality, replace if necessary. – If fault still occurs, contact an authorized Ski-Doo dealer.
—	—	4 short beeps every 5 minutes	REV LIMIT	Engine RPM limited for protection when certain faults occur.
—	—	Short beeps repeating rapidly	SHUTDOWN	Shutdown procedure in force due to engine overheating or fuel pump problem, remove tether cord cap from engine cut-off switch and contact an authorized Ski-Doo dealer.
—	—	—	COMMUNICATION	Communication problem between ECM and gauge. Stop engine, remove D.E.S.S. key (tether cord cap). Wait a few minutes, then start engine. If problem persists, contact an authorized Ski-Doo dealer.
DESS	Blinking	2 short beeps	—	Good key, vehicle ready to operate.
		2 short beeps, repeating slowly	CHECK KEY	Unable to read key (bad connection). Make sure the key is clean and correctly snapped on post.
		Short beeps repeating rapidly	BAD KEY	Invalid key or key not programmed. Use the proper key for the vehicle or have the programmed.

PILOT LAMP(S)	BEEPER	MESSAGE DISPLAY	DESCRIPTION
—	—	 (Blinking)	Fuel level sender problem.
—	—	THROTTLE OPEN	Throttle applied while attempting an engine start (engine cranks but won't run). Release throttle while starting.
—	—	DROWN MODE	Throttle wide open while attempting an engine start (engine cranks but won't run). Release throttle while starting.

Fault Codes

Multifunction Analog/Digital Display Only

To read any active fault code, press and hold MODE (M) Button and simultaneously depress the HI/LOW beam switch repeatedly several times.

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

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

Contact an authorized Ski-Doo dealer for code signification.

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WARRANTY

BRP LIMITED WARRANTY USA AND CANADA: 2011 SKI-DOO® SNOWMOBILES

1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")* warrants its 2011 Ski-Doo snowmobiles sold by authorized BRP dealers (as hereinafter defined) in the fifty United States and Canada from defects in material or workmanship for the period and under the conditions described below. This limited warranty will become null and void if: (1) the snowmobile was used for racing or any other competitive activity, at any point, even by a previous owner; or (2) the snowmobile has been altered or modified in such a way so as to adversely affect its operation, performance or durability, or has been altered or modified to change its intended use.

All genuine Ski-Doo parts and accessories, installed by an authorized BRP dealer at the time of delivery of the 2011 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

2) LIMITATIONS OF LIABILITY

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

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

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

3) EXCLUSIONS – ARE NOT WARRANTED

The following are not warranted under any circumstances:

- Normal wear and tear;
- Routine maintenance items, tune ups, adjustments;
- Damage caused by failure to provide proper maintenance and/or storage, as described in the Operator's Guide;
- Damage resulting from removal of parts, improper repairs, service, maintenance, modifications or use of parts or accessories not manufactured or approved by BRP which in its reasonable judgement are either incompatible with the product or adversely affect its operation, performance and durability, or resulting from repairs done by a person that is not an authorized servicing BRP distributor/dealer;

- Damage caused by abuse, abnormal use, neglect, racing or operation 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, snow or water ingestion, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the Operator’s Guide);
- Damages from rust, corrosion or exposure to the elements;
- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income; and
- Damage resulting from studs installed on tracks if the installation does not conform to BRP’s instructions.

4) WARRANTY COVERAGE PERIOD

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

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

Exhaust emission-related components that are installed on EPA certified snowmobiles registered in the USA are covered for thirty (30) consecutive months or 200 hours or 2500 miles (4000 km) of engine use whichever occurs first. If the 2500 miles (4000 km) are reached during the regular warranty coverage period, the emission-related components are still covered by BRP’s standard warranty until the end of regular coverage period. Evaporative emission related components that are installed on EPA certified snowmobiles registered in the USA are warranted for twenty-four (24) consecutive months.

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

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

5) CONDITIONS TO HAVE WARRANTY COVERAGE

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

- The 2011 Ski-Doo snowmobile must be purchased as new and unused by its first owner from a BRP dealer authorized to distribute Ski-Doo snowmobiles in the country in which the sale occurred (“BRP dealer”);
- The BRP specified pre-delivery inspection process must be completed and documented;
- The product must have undergone proper registration by an authorized BRP dealer;

- The 2011 Ski-Doo snowmobile must be purchased in the country in which the purchaser resides; and
- Routine maintenance outlined in the Operator's Guide must be timely performed in order to maintain warranty coverage. BRP reserves the right to make warranty coverage contingent upon proof of proper maintenance.

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

6) WHAT TO DO TO OBTAIN WARRANTY COVERAGE

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

7) WHAT BRP WILL DO

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

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

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

8) TRANSFER

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

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

9) CONSUMER ASSISTANCE

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

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

In Canada

BOMBARDIER RECREATIONAL PRODUCTS INC.

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

In USA

BRP US INC.

Customer Assistance Center
7575 Bombardier Court
Wausau WI 54401
Tel.: 715 848-4957

* In the USA, products are distributed and serviced by BRP US Inc.
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BRP INTERNATIONAL LIMITED WARRANTY: 2011 SKI-DOO® SNOWMOBILES

1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")* warrants its 2011 Ski-Doo snowmobiles sold by authorized BRP distributor/dealer (as hereinafter defined) outside of the fifty United States, Canada and states members of the European Economic Area ("EEA") (which is comprised of the states member of the European Union plus Norway, Iceland and Liechtenstein) from defects in material or workmanship for the period and under the conditions described below. This limited warranty will become null and void if: (1) the snowmobile was used for racing or any other competitive activity, at any point, even by a previous owner; or (2) the snowmobile has been altered or modified in such a way so as to adversely affect its operation, performance or durability, or has been altered or modified to change its intended use.

All genuine Ski-Doo parts and accessories, installed by an authorized BRP distributor/dealer at the time of delivery of the 2011 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

2) LIMITATIONS OF LIABILITY

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

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

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

3) EXCLUSIONS – ARE NOT WARRANTED

The following are not warranted under any circumstances:

- Normal wear and tear;
- Routine maintenance items, tune ups, adjustments;
- Damage caused by failure to provide proper maintenance and/or storage, as described in the Operator's Guide;

- Damage resulting from removal of parts, improper repairs, service, maintenance, modifications or use of parts or accessories not manufactured or approved by BRP which in its reasonable judgement are either incompatible with the product or adversely affect its operation, performance and durability, or resulting from repairs done by a person that is not an authorized servicing BRP distributor/dealer;
- Damage caused by abuse, abnormal use, neglect, racing or operation 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, snow or water ingestion, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the Operator's Guide);
- Damages from rust, corrosion or exposure to the elements;
- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income; and
- Damage resulting from studs installed on tracks if the installation does not conform to BRP's instructions.

4) WARRANTY COVERAGE PERIOD

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

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

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

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

5) CONDITIONS TO HAVE WARRANTY COVERAGE

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

- The 2010 Ski-Doo snowmobile must be purchased as new and unused by its first owner from a BRP distributor/dealer authorized to distribute Ski-Doo snowmobiles in the country in which the sale occurred ("BRP distributor/dealer");
- The BRP specified pre-delivery inspection process must be completed and documented;
- The product must have undergone proper registration by an authorized BRP distributor/dealer;

- The 2011 Ski-Doo snowmobile must be purchased in the country or union of countries in which the purchaser resides.
- Routine maintenance outlined in the Operator's Guide must be timely performed in order to maintain warranty coverage. BRP reserves the right to make warranty coverage contingent upon proof of proper maintenance.

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

6) WHAT TO DO TO OBTAIN WARRANTY COVERAGE

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

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

7) WHAT BRP WILL DO

BRP's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine Ski-Doo parts without charge for parts and labour, at any authorized BRP distributor/dealer during the warranty coverage period under the conditions described herein. BRP's responsibility is limited to making the required repairs or replacements of parts. No claim of breach of warranty shall be cause for cancellation or rescission of the sale of the snowmobile to the owner.

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

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

8) TRANSFER

If the ownership of a product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided BRP or an authorized BRP distributor/dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the co-ordinates of the new owner.

9) CONSUMER ASSISTANCE

In the event of a controversy or a dispute in connection with this limited warranty, BRP suggests that you try to resolve the issue at the dealership level. We recommend discussing the issue with the authorized distributor/dealer's service manager or owner. If further assistance is required, the distributor's service department should be contacted in order to resolve the matter. If the matter still remains unresolved then contact BRP at the address listed below.

For European countries please contact our Finland office:

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

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

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

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

BOMBARDIER RECREATIONAL PRODUCTS INC.
Customer Assistance Center
Sherbrooke QC J1L 1W3
Canada
Tel.: +1 819 566 3366

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

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

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BRP LIMITED WARRANTY FOR THE EUROPEAN ECONOMIC AREA: 2011 SKI-DOO® SNOWMOBILES

1) SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")* warrants its 2011 Ski-Doo snowmobiles sold by authorized BRP distributor/dealer (as hereinafter defined) in states members of the European Economic Area ("EEA") (which is comprised of the states member of the European Union plus Norway, Iceland and Liechtenstein) from defects in material or workmanship for the period and under the conditions described below. This limited warranty will become null and void if: (1) the snowmobile was used for racing or any other competitive activity, at any point, even by a previous owner; or (2) the snowmobile has been altered or modified in such a way so as to adversely affect its operation, performance or durability, or has been altered or modified to change its intended use.

All genuine Ski-Doo parts and accessories, installed by an authorized BRP distributor/dealer (at the time of delivery of the 2011 Ski-Doo snowmobile, carry the same warranty as that of the snowmobile.

2) LIMITATIONS OF LIABILITY

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

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

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

3) EXCLUSIONS – ARE NOT WARRANTED

The following are not warranted under any circumstances:

- Normal wear and tear;
- Routine maintenance items, tune ups, adjustments;
- Damage caused by failure to provide proper maintenance and/or storage, as described in the Operator's Guide;

- Damage resulting from removal of parts, improper repairs, service, maintenance, modifications or use of parts or accessories not manufactured or approved by BRP which in its reasonable judgement are either incompatible with the product or adversely affect its operation, performance and durability, or resulting from repairs done by a person that is not an authorized servicing BRP distributor/dealer;
- Damage caused by abuse, abnormal use, neglect, racing or operation 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, snow or water ingestion, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the Operator's Guide);
- Damages from rust, corrosion or exposure to the elements;
- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income; and
- Damage resulting from studs installed on tracks if the installation does not conform to BRP's instructions.

4) WARRANTY COVERAGE PERIOD

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

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

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

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

5) CONDITIONS TO HAVE WARRANTY COVERAGE

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

- The 2011 Ski-Doo snowmobile must be purchased as new and unused by its first owner from a BRP distributor/dealer authorized to distribute Ski-Doo products in the country in which the sale occurred ("BRP distributor/dealer");
- The BRP specified pre-delivery inspection process must be completed and documented;
- The product must have undergone proper registration by an authorized BRP distributor/dealer;

- The 2011 Ski-Doo snowmobile must be purchased within the EEA;
- Routine maintenance outlined in the Operator’s Guide must be timely performed in order to maintain warranty coverage. BRP reserves the right to make warranty coverage contingent upon proof of proper maintenance.

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

6) WHAT TO DO TO OBTAIN WARRANTY COVERAGE

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

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

7) WHAT BRP WILL DO

BRP’s obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine Ski-Doo parts without charge for parts and labour, at any authorized BRP distributor/dealer during the warranty coverage period under the conditions described herein. BRP’s responsibility is limited to making the required repairs or replacements of parts. No claim of breach of warranty shall be cause for cancellation or rescission of the sale of the snowmobile to the owner.

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

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

8) TRANSFER

If the ownership of a product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided BRP or an authorized BRP distributor/dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the co-ordinates of the new owner.

9) CONSUMER ASSISTANCE

In the event of a controversy or a dispute in connection with this limited warranty, BRP suggests that you try to resolve the issue at the dealership level. We recommend discussing the issue with the authorized distributor/dealer's service manager or owner. If further assistance is required, the distributor's service department should be contacted in order to resolve the matter. If the matter still remains unresolved then contact BRP at the address listed below:

BRP FINLAND OY

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

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

* In the EEA, products are distributed and serviced by BRP European Distribution S.A. and other affiliates or subsidiaries of BRP.

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CUSTOMER INFORMATION

PRIVACY INFORMATION

BRP wishes to inform you that your coordinates will be used for safety and warranty related purposes. Furthermore, BRP and its affiliates may use its customer list to distribute marketing and promotional information about BRP and related products.

To exercise your right to consult or correct your data, or to be removed from the addressee-list for direct marketing, please contact BRP.

By E-mail: privacyofficer@brp.com

By mail:

BRP
Senior Legal Counsel-Privacy Officer
726 St-Joseph
Valcourt QC
Canada
J0E 2L0

CHANGE OF ADDRESS/OWNERSHIP

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

- Mailing one of the change of address cards on the following pages
- North America only: Calling at 715 848-4957 (USA) or 819 566-3366 (Canada)
- Notifying an authorized Ski-Doo dealer.

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

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

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

North America

BOMBARDIER RECREATIONAL PRODUCTS INC.

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

Scandinavian countries

BRP FINLAND OY

Service Department
Isoaavantie 7
FIN-96320 Rovaniemi

Other countries in the world

BRP EUROPEAN DISTRIBUTION

Warranty Department
Chemin de Messidor 5-7
1006 Lausanne
Switzerland

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CHANGE OF ADDRESS CHANGE OF OWNERSHIP 

VEHICLE IDENTIFICATION NUMBER

Model Number

Vehicle Identification Number (V.I.N.)

OLD ADDRESS
OR PREVIOUS OWNER:

NAME

NO.

STREET

APT

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

COUNTRY

TELEPHONE

NEW ADDRESS
OR NEW OWNER:

NAME

NO.

STREET

APT

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

COUNTRY

TELEPHONE

E-MAIL ADDRESS

V00A2F

CHANGE OF ADDRESS CHANGE OF OWNERSHIP 

VEHICLE IDENTIFICATION NUMBER

Model Number

Vehicle Identification Number (V.I.N.)

OLD ADDRESS
OR PREVIOUS OWNER:

NAME

NO.

STREET

APT

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

COUNTRY

TELEPHONE

NEW ADDRESS
OR NEW OWNER:

NAME

NO.

STREET

APT

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

COUNTRY

TELEPHONE

E-MAIL ADDRESS

V00A2F



520 000 981

CA

OPERATOR'S GUIDE REV-XR / ENGLISH
GUIDE DU CONDUCTEUR REV-XR / ANGLAIS

FAIT AU / MADE IN CANADA

U/M.P.C.