

***ski-doo***<sup>®</sup>

OPERATOR'S GUIDE

2003

**CK3 Series**



**WARNING**

Read this guide thoroughly.  
It contains important safety information.



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## **SAFETY WARNING**

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

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

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RECREATIONAL PRODUCTS



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MACH Z®

SKI-DOO®

ROTAX®

CK3™

RER™

DESS™

DPM™

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# 2003 SKI-DOO OPERATOR'S GUIDE

This guide is applicable to CK3™ platform model:

***Mach Z Tech Plus***

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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 warranty and a network of authorized SKI-DOO snowmobile dealers ready to provide the parts, service or accessories you may require.

The *Operator's Guide* and the *Safety Handbook* have been prepared to acquaint the owner/operator and passenger of a new snowmobile with the various snowmobile controls, maintenance and safe operating instructions. Each is indispensable for the proper use of the product.

### **WARNING**

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

### **CAUTION**

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

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

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

Your dealer is committed to your satisfaction. He has taken training to perform the initial set-up and inspection of your snowmobile as well as completed the final adjustment required to suit your specific weight and riding environment before you took possession. At delivery, your dealer would have explained the snowmobile controls and provided you with a brief explanation of the various suspension adjustments. We trust you have taken full advantage of this! If you need more complete servicing information, please ask your dealer about the proper model-year *Ski-Doo Shop Manual*.

At delivery, you were also informed of the warranty coverage and completed the Warranty Registration Form which is to be sent to us for processing.

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

We also reserve the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring obligation.

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

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

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

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

A *Shop Manual* can be obtained for complete service, maintenance and more repair information.

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## **⚠ SAFETY MEASURES**

### **Observe the Following Warnings:**

- ⚠ For vehicles with a parking brake, always engage brake when vehicle is not in use.
- ⚠ Throttle mechanism should be checked for free movement and return to idle position before starting engine.
- ⚠ In an emergency, the snowmobile engine can be stopped by activating the engine cut-out switch or pulling the tether cord.
- ⚠ Engine should be running only when belt guard is secured in place. Never run the engine without drive belt installed. Running an unloaded engine such as without drive belt or with track raised, can be dangerous.
- ⚠ Never run the engine when the track is raised off the ground or with the hood or access panel opened or removed.
- ⚠ Do not stud the track. At speed it may cause the track to tear and separate from vehicle posing a risk of severe injury or death.
- ⚠ Never run the engine in a non well-ventilated area and/or unattended.
- ⚠ Maintain your snowmobile in top mechanical condition at all times.
- ⚠ Your snowmobile is not designed to be operated on public streets, roads or highways. In most States and Provinces, it is considered an illegal operation.
- ⚠ Electric start models only: Never charge or boost a battery while installed on snowmobile.
- ⚠ Do not lubricate throttle and/or brake cables and housings.
- ⚠ Only perform procedures as detailed in this guide. Unless otherwise specified, engine should be turned OFF and cold for all lubrication, adjustment and maintenance procedures.
- ⚠ Some snowmobiles are designed for the driver only and no provisions have been made for a passenger.
- ⚠ The performance of this snowmobile may significantly exceed that of other snowmobiles you have operated. Therefore, use by novice or inexperienced operators is not recommended.
- ⚠ The engine and components used in a particular model should not be used on other models. Use of Rotax® snowmobile engines in other than SKI-DOO snowmobiles is not recommended or authorized by Bombardier Inc.

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

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

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## **LIST OF HOT PARTS**

All power train components.

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## **LIST OF MOVING PARTS**

All transmission, suspension and steering parts.

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# **BOMBARDIER LIMITED WARRANTY NORTH AMERICA: 2003 SKI-DOO® SNOWMOBILES**

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

In Canada, BOMBARDIER INC. (hereinafter "BOMBARDIER"), and in the USA, Bombardier on behalf of BOMBARDIER MOTOR CORPORATION OF AMERICA (BMCA) warrants its 2003 SKI-DOO snowmobiles from defects in material or workmanship for the period described below.

All genuine BOMBARDIER parts and accessories, installed by an authorized BOMBARDIER dealer (as hereinafter defined) at the time of delivery of the 2003 SKI-DOO snowmobile, carry the same warranty as that of the snowmobile. Use of the product for racing or any other competitive activity, at any point, even by a prior owner will render this warranty null and void.

## **2. WARRANTY COVERAGE PERIOD**

This warranty will be in effect FROM THE DATE OF DELIVERY TO THE FIRST RETAIL CONSUMER or the date the product is first put into use, whichever occurs first and for a period of:

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

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

## **3. CONDITIONS TO HAVE WARRANTY COVERAGE**

This warranty coverage is available only on 2003 SKI-DOO snowmobile purchased as new and unused by its first owner from a BOMBARDIER dealer authorized to distribute SKI-DOO products in the country in which the sale occurred (hereinafter "BOMBARDIER dealer"), and then only after the BOMBARDIER specified pre-delivery inspection process is completed and documented. Warranty coverage only becomes available upon proper registration of the product by a BOMBARDIER dealer. Such limitations are necessary in order to allow BOMBARDIER to preserve both the safety of its products, and also that of its consumers and the public.

Routine maintenance outlined in the *Operator's Guide* must be timely performed in order to maintain warranty coverage. BOMBARDIER reserves the right to make warranty coverage contingent upon proof of proper maintenance.

## **4. WHAT TO DO TO OBTAIN WARRANTY COVERAGE**

The customer must notify a servicing BOMBARDIER 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 BOMBARDIER dealer, proof of purchase of the product and must sign the repair/work order prior to the start of the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of BOMBARDIER.

## 5. WHAT BOMBARDIER WILL DO

BOMBARDIER'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 BOMBARDIER parts without charge for parts and labor, at any authorized BOMBARDIER dealer.

BOMBARDIER reserves the right to improve or modify products from time to time without assuming any obligation to modify products previously manufactured.

## 6. EXCLUSIONS - ARE NOT WARRANTED

- Normal wear and tear;
- Routine maintenance items, tune ups, adjustments;
- Damage caused by failure to provide proper maintenance and/or storage, as described in the *Operator's Guide*;
- Damage resulting from removal of parts, improper repairs, service, maintenance, modifications or use of parts not manufactured or approved by BOMBARDIER or resulting from repairs done by a person that is not an authorized servicing BOMBARDIER dealer;
- Damage caused by abuse, abnormal use, neglect, use of the product on surfaces other than snow, or operation of the product in a manner inconsistent with the recommended operation described in the *Operator's Guide*;
- Damage resulting from accident, submersion, fire, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the *Operator's Guide*);
- Snow or water ingestion;
- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income; and
- Damage resulting from tracks which have been studded.

## 7. LIMITATIONS OF LIABILITY

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

Neither the distributor, any BOMBARDIER 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 BOMBARDIER.

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

## 8. TRANSFER

If the ownership of a product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided that BOMBARDIER is notified of such transfer of ownership in the following way:

- a. The former owner contacts BOMBARDIER (at the phone number provided below) or an authorized BOMBARDIER dealer and gives the coordinates of the new owner; or
- b. BOMBARDIER or an authorized BOMBARDIER dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the coordinates of the new owner.

## 9. CONSUMER ASSISTANCE

- a. In the event of a controversy or a dispute in connection with this BOMBARDIER LIMITED WARRANTY, BOMBARDIER suggests that you try to resolve the issue at the dealership level. We recommend discussing the issue with the authorized dealer's service manager or owner.
- b. If the issue has not yet been resolved, please submit your complaint in writing or call the appropriate number below:

In Canada:

**BOMBARDIER INC.**  
**RECREATIONAL PRODUCTS**  
SKI-DOO®  
CUSTOMER ASSISTANCE CENTER  
VALCOURT QC J0E 2L0  
Tel: (819) 566-3366

In USA:

**BOMBARDIER MOTOR**  
**CORPORATION OF AMERICA**  
**RECREATIONAL PRODUCTS**  
SKI-DOO®  
CUSTOMER ASSISTANCE CENTER  
7575 BOMBARDIER COURT  
WAUSAU WI 54401  
Tel: (715) 848-4957



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# **BOMBARDIER LIMITED WARRANTY INTERNATIONAL: 2003 SKI-DOO® SNOWMOBILES**

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

BOMBARDIER INC. (hereinafter "BOMBARDIER") warrants its 2003 SKI-DOO snowmobiles from defects in material or workmanship for the period described below.

All genuine BOMBARDIER parts and accessories, installed by an authorized BOMBARDIER distributor/dealer (as hereinafter defined) at the time of delivery of the 2003 SKI-DOO snowmobile, carry the same warranty as that of the snowmobile.

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

## **2. WARRANTY COVERAGE PERIOD**

This warranty will be in effect FROM THE DATE OF DELIVERY TO THE FIRST RETAIL CONSUMER or the date the product is first put into use, whichever occurs first and for a period of:

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

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

## **3. CONDITIONS TO HAVE WARRANTY COVERAGE**

This warranty coverage is available only on 2003 SKI-DOO snowmobile purchased as new and unused by its first owner from a BOMBARDIER distributor/dealer authorized to distribute SKI-DOO products in the country in which the sale occurred (hereinafter "BOMBARDIER distributor/dealer"), and then only after the BOMBARDIER specified pre-delivery inspection process is completed and documented. Warranty coverage only becomes available upon proper registration of the product by a BOMBARDIER dealer. Such limitations are necessary in order to allow BOMBARDIER to preserve both the safety of its products, and also that of its consumers and the public.

Routine maintenance outlined in the *Operator's Guide* must be timely performed in order to maintain warranty coverage. BOMBARDIER reserves the right to make warranty coverage contingent upon proof of proper maintenance.

## **4. WHAT TO DO TO OBTAIN WARRANTY COVERAGE**

The customer must notify a servicing BOMBARDIER 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 BOMBARDIER dealer, proof of purchase of the product and must sign the repair/work order prior to the start of the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of BOMBARDIER.

## 5. WHAT BOMBARDIER WILL DO

BOMBARDIER'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 BOMBARDIER parts without charge for parts and labor, at any authorized BOMBARDIER distributor/dealer.

BOMBARDIER reserves the right to improve or modify products from time to time without assuming any obligation to modify products previously manufactured.

## 6. EXCLUSIONS - ARE NOT WARRANTED

- Normal wear and tear;
- Routine maintenance items, tune ups, adjustments;
- Damage caused by failure to provide proper maintenance and/or storage, as described in the *Operator's Guide*;
- Damage resulting from removal of parts, improper repairs, service, maintenance, modifications or use of parts not manufactured or approved by BOMBARDIER or resulting from repairs done by a person that is not an authorized servicing BOMBARDIER dealer;
- Damage caused by abuse, abnormal use, neglect, use of the product on surfaces other than snow, or operation of the product in a manner inconsistent with the recommended operation described in the *Operator's Guide*;
- Damage resulting from accident, submersion, fire, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the *Operator's Guide*);
- Snow or water ingestion;
- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income; and
- Damage resulting from tracks which have been studded.

## 7. LIMITATIONS OF LIABILITY

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

Neither the distributor, any BOMBARDIER 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 BOMBARDIER.

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

## 8. TRANSFER

If the ownership of a product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided that BOMBARDIER is notified of such transfer of ownership in the following way:

- a. The former owner contacts BOMBARDIER or an authorized BOMBARDIER distributor/dealer and gives the coordinates of the new owner; or
- b. BOMBARDIER or an authorized BOMBARDIER distributor/dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the coordinates of the new owner.

## 9. CONSUMER ASSISTANCE

- a. In the event of a controversy or a dispute in connection with this BOMBARDIER LIMITED WARRANTY, BOMBARDIER suggests that you try to resolve the issue at the distributorship/dealership level. We recommend discussing the issue with the authorized dealer's service manager or owner.
- b. If further assistance is required, the distributor's service department should be contacted in order to resolve the matter.



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## FREQUENTLY ASKED QUESTIONS

Q: Why must my snowmobile be registered at the factory? After all I do have my original invoice as proof of when I purchased my snowmobile.

A: *Registration is very important and your authorized SKI-DOO dealer must register your snowmobile with Bombardier. Make sure the registration form has been sent. All of this will allow you to:*

a) *have warranty work performed at any authorized SKI-DOO dealer in North America. Your registration form will provide the authorized SKI-DOO dealer with all the necessary data to complete warranty claim forms.*

b) *be advised by Bombardier should there be a safety recall or particular warranty campaign.*

c) *be contacted much faster by the police, the minute they find your stolen snowmobile (if such a case occurs).*

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

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

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

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

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

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

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

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

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

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

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

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

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

A: *Yes, provided the re-sale has been registered with the manufacturer.*

Q: How can I receive the best owner assistance?

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

**We are always pleased to receive your comments on the SKI-DOO snowmobile.**

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## AUTHORIZED SKI-DOO DEALERS

For Canada and USA Only

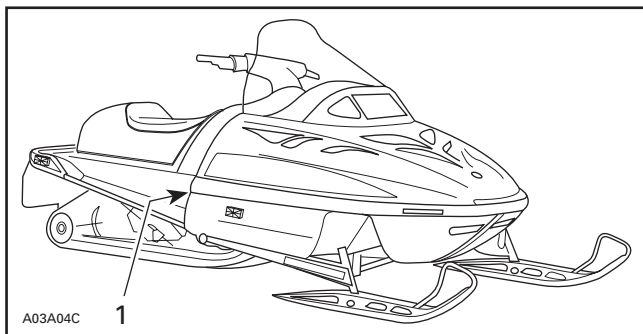
To find the nearest authorized SKI-DOO dealer, dial: 1-800-375-4366 or visit our web site at WWW.SKIDOO.COM.

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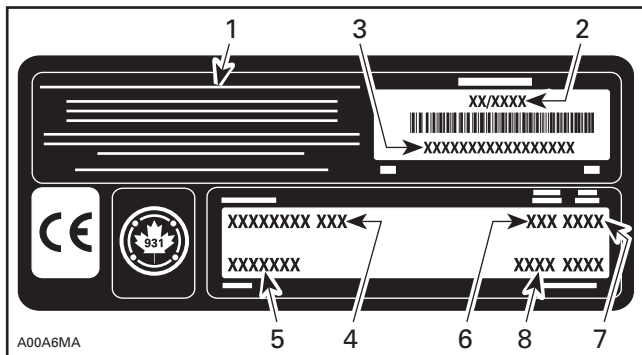
## HOW TO IDENTIFY YOUR SNOWMOBILE

### Vehicle Description Decal

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



1. Vehicle description decal



### VEHICLE DESCRIPTION DECAL

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

## Serial Numbers

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

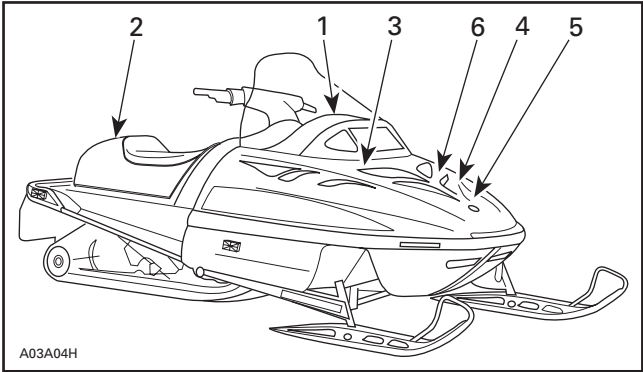
### Vehicle Identification Number (VIN) Location

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



## ON-VEHICLE IMPORTANT INSTRUCTIONS

Please read the following instructions carefully before operating snowmobile. Have all damaged decals replaced by an authorized SKI-DOO dealer.



*TYPICAL — LOCATION OF IMPORTANT INSTRUCTIONS*

# Instruction 1

## SINGLE SEAT MODELS

### **WARNING**

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

This vehicle is designed for operator only. "NO PASSENGER".

### **AVERTISSEMENT**

Lisez et respectez tous les avertissements inscrits dans le guide de fonctionnement du produit, avant toute mise en marche.  
•Le fait de passer outre aux avertissements ou d'ignorer le mode de fonctionnement peut entraîner de graves blessures ou la mort.  
•Avant de démarrer le moteur, s'assurer que: •La manivelle d'accélérateur revient à sa position initiale lorsque relâchée.  
•Les gardes soient en place. •Le capot soit fermé et le panneau d'accès de la poignée soit installé. •Le frein de stationnement soit appliqué.  
Après démarrage, s'assurer que: •L'interrupteur d'arrêt d'urgence du moteur et tous les contrôles fonctionnent normalement.  
•Le frein de stationnement soit complètement relâché.  
•Le fonctionnement des commandes soit normal.

Ce véhicule est conçu pour un conducteur seulement. "AUCUN PASSAGER".

911 061 271

## Instruction 2



A01A1ZD

SINGLE SEAT MODELS

## Instruction 3

### **CAUTION**

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

### **ATTENTION**

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

516 001 191

A01A2EA

ALL MODELS



#### Instruction 4

<b>⚠ WARNING</b>	
This guard must always be in place when engine is running.	
<b>⚠ AVERTISSEMENT</b>	
Ce garde-courroie doit toujours être en place lorsque le moteur fonctionne.	
A01A2FA	516 001 190

ALL MODELS

#### Instruction 5



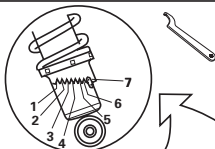
TYPICAL — ALL MODELS

## Instruction 6

### SUSPENSION ADJUSTMENT CHART/TABLEAU DES RÉGLAGES DE LA SUSPENSION FRONT SUSPENSION (SKI)/SUSPENSION AVANT (SKI)

NOT APPLICABLE

SANS OBJET



### REAR SUSPENSION/SUSPENSION ARRIÈRE ADJUST ACCORDING TO LOAD/RÉGLER SELON LA CHARGE

(LB)	LOAD CHARGE	(kg)	REAR SPRING RESSORT ARRIÈRE		
up to 125		jusqu'à 57	1		NOT APPLICABLE
125 to 150		57 à 68	2		SANS OBJET
150 to 175		68 à 79	3		
175 to 200		79 à 91	4		

FOR LOADS EXCEEDING RANGE SHOWN ABOVE, CONSULT YOUR DEALER.  
SI LES CHARGES EXCÈDENT LES PLAGES MONTREES CI-HAUT, CONSULTEZ VOTRE CONCESSIONNAIRE.

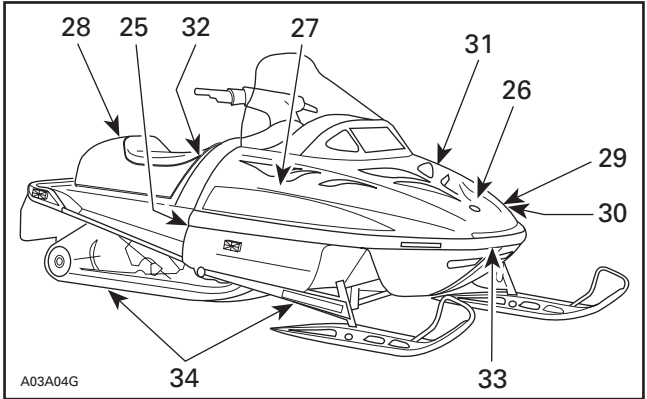
418 0017 01

A01A25D

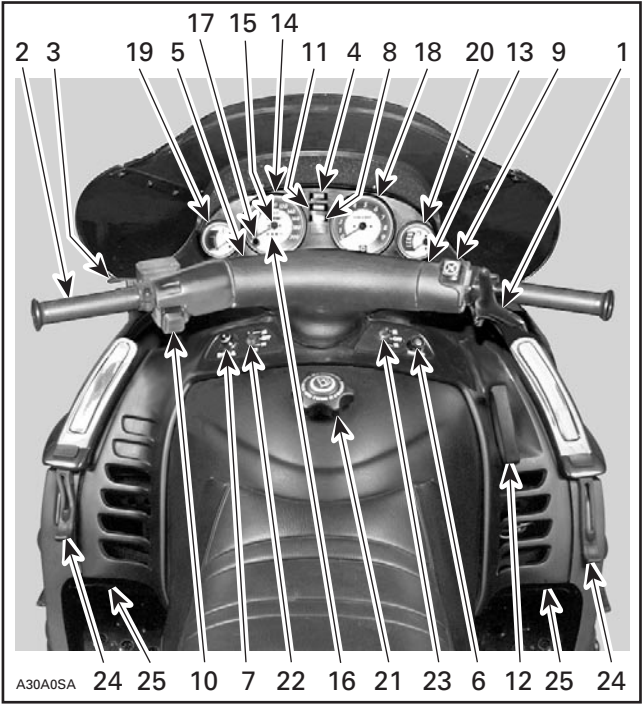
TYPICAL — ALL MODELS

## CONTROLS/INSTRUMENTS/EQUIPMENT

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



*TYPICAL*



TYPICAL

## 1) Throttle Lever

Located on the right hand side of handlebar and designed to be thumb activated. When squeezed, it increases the engine speed and engages the transmission. When released, engine speed returns automatically to idle.

### **WARNING**

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

## 2) Brake Lever

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

## 3) Parking Brake Locking Lever

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

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

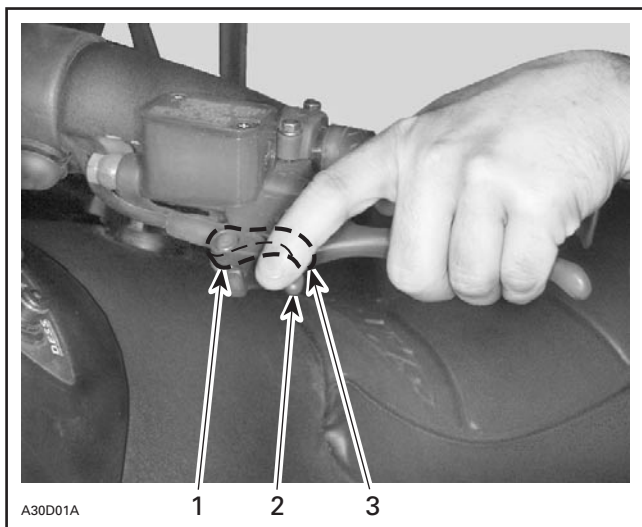
### **WARNING**

Make sure parking brake is fully disengaged before operating the snowmobile.

When you ride the vehicle, brake that are caused to drag by a continuous pressure on the lever may cause damage to the brake system and cause loss of braking capacity and/or fire.

To **engage** mechanism, squeeze brake lever and maintain while pulling locking lever with a finger. When brake lever is held at half-way the parking brake should be fully applied.

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



1. Locking lever
2. OFF
3. ON

#### **4) Injection Oil Level/Parking Brake Pilot Lamp (Red)**

Lights when injection oil level is low or when parking brake or brake is applied (with engine running). Check oil level and replenish as soon as possible. Also lights when parking brake is applied (with engine running).

#### **5) 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.

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

## **WARNING**

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

### **6) Reverse Button**

## **WARNING**

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

### **General**

Some models are equipped with a Rotax Electronic Reverse (RER™) controlled by a reverse button.

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

When depressing the RER button, the MPEM (Multi-Purpose Electronic Module) will practically slow down the engine RPM to a stop and advance the ignition timing to cause crankshaft rotation reversing.

Engine will automatically shift into forward when starting after stopping or stalling.

Shifting procedure will take place only when the engine is running.

If engine is running at a speed above 3800 RPM, the reverse function of the RER button is cancelled.

It is recommended to warm up the engine to its normal operating temperature before shifting.

## Shifting in Reverse

### **WARNING**

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

With the snowmobile completely stopped and engine running at idle, press and release the reverse button.

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

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

### **Shifting in Forward**

With the snowmobile completely stopped and engine running at idle, press and release the reverse button.

DESS/RER pilot lamp and warning buzzer will stop.

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

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

These vehicles are equipped with a Digital Performance Management (DPM) system. This system takes care of the altitude mode required by the RER.

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



## 7) Tether Cut-Out Switch

### General

The tether cut-out switch is part of tether cut-out system. This system serves 3 functions.

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

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

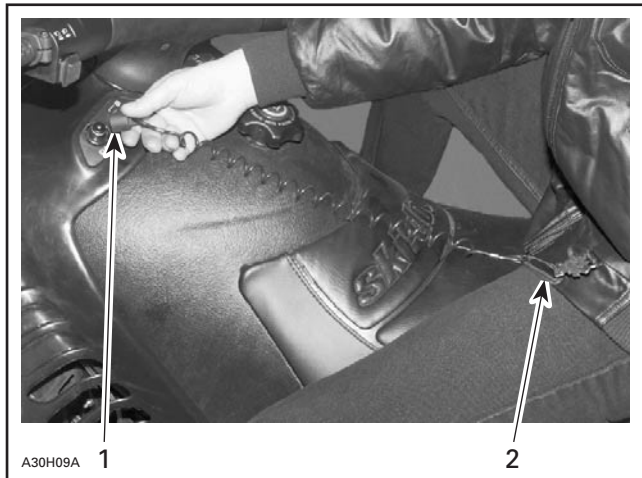
Finally, it prevents unintentional electric starter operation on vehicles so equipped by disabling the electric starter and ignition circuits in the MPEM.

### **WARNING**

Always disconnect tether cord when leaving vehicle unattended and keep in a secured location.

### Operation

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



#### TYPICAL

1. Snap over switch post
2. Attach to eyelet

To stop engine, completely pull cap from safety switch.



TYPICAL

### **DESS (Digitally Encoded Security System) Description**

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

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

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

### **Operation**

See above for details.

### **Additional Tether Cord Caps**

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

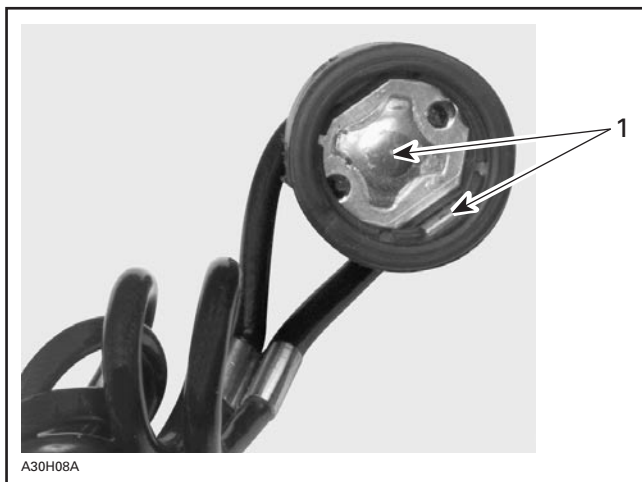
We recommend the purchase of additional tether cord caps from your authorized SKI-DOO dealer. Once programmed by your dealer they could be used as additional keys. If you have more than one SKI-DOO snowmobile, each can be programmed by your authorized SKI-DOO dealer to accept the other vehicles' keys.

## DESS/RER Pilot Lamp and Buzzer Codes

**NOTE:** Every time DESS/RER pilot lamp will blink, buzzer will sound.

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

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



1. Free of dirt or snow

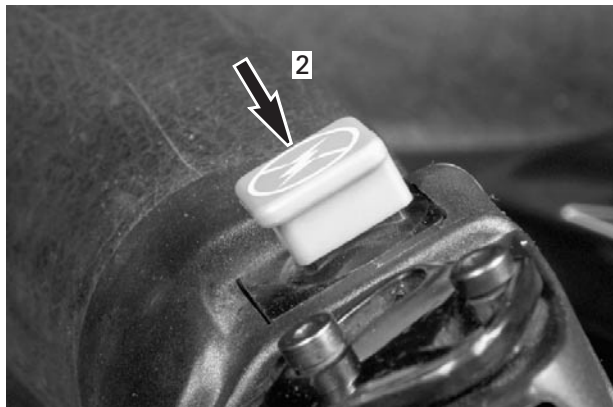
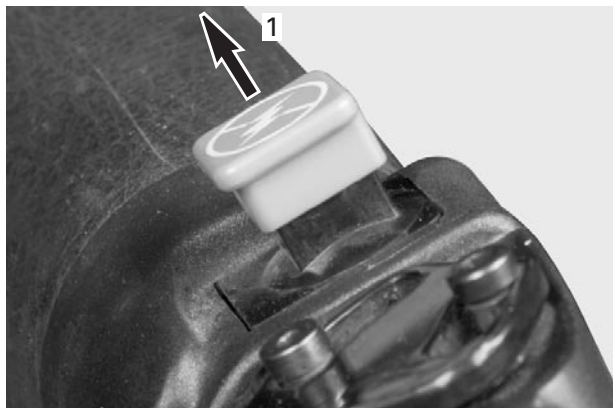
A DESS/RER pilot lamp blinking 3 times per second and a beeping at same rate mean that an incorrectly programmed tether cord is being used. Vehicle cannot be driven.

## 8) DESS/RER Pilot Lamp

This lamp will light up to confirm DESS status or to indicate that snowmobile is reversing. Refer to previous paragraphs for description.

## 9) Engine Cut-Out Switch

A push-pull type switch located on the right side of the handlebar. To stop the engine, push the button to the lower OFF position and simultaneously apply the brake. To restart, button must be at the upper ON position.



A30E03A

*TYPICAL*

1. ON
2. OFF

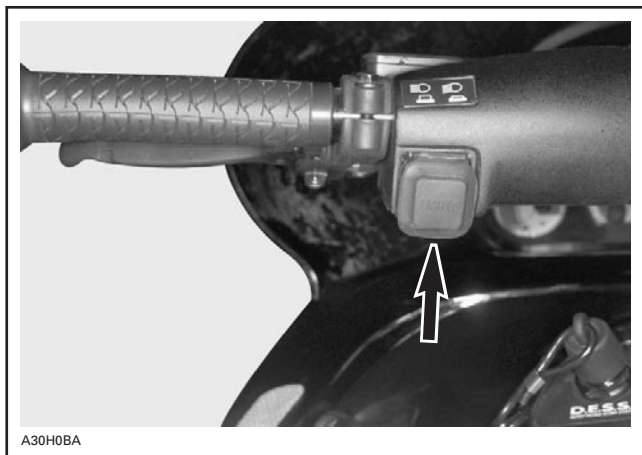
All drivers of the snowmobile should familiarize themselves with the function of this device by using it several times on first outing and everytime to stop the engine there after. Thereby this engine cut-out procedure will become reflex preparing operators to emergency situations requiring its use.

## **WARNING**

If the switch has been used in an emergency caused by a mechanical malfunction, the source of the malfunction should be determined and corrected before restarting engine.

### **10) Headlamp Dimmer Switch**

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



### **11) High Beam Pilot Lamp (Blue)**

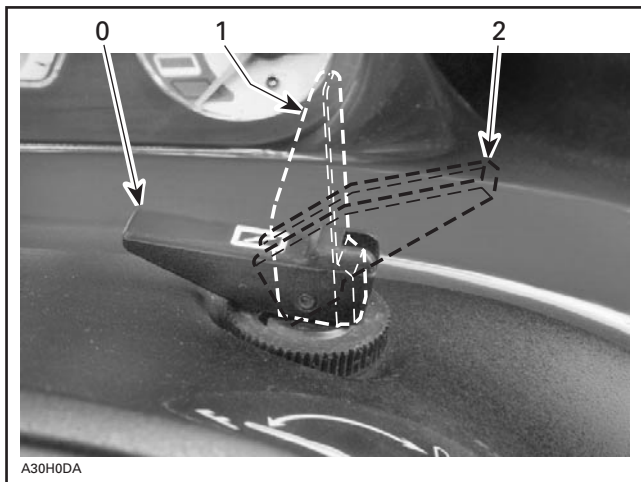
Lights when headlamp is on HIGH beam.

### **12) Rewind Starter Handle**

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

### 13) Choke Lever

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



- 0. OFF
- 1. Position 1
- 2. Position 2

Refer to OPERATING INSTRUCTIONS for more details.

### 14) Speedometer

These vehicles are equipped with a speedometer graduated in kilometers per hour (miles per hour for the USA).

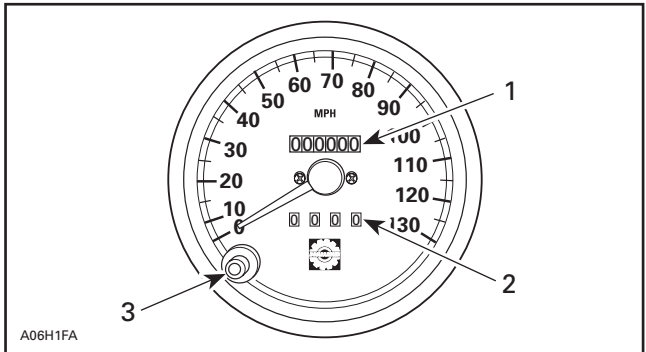
Direct-reading dial indicates the speed of the snowmobile in kilometers per hour (miles per hour for the USA).

### 15) Odometer

Odometer records the total distance travelled in kilometers (miles for the USA).

## 16) Trip Meter

Records distance travelled in kilometers (miles for the USA) until it is reset. It can be used to establish a fuel tank range or distance between 2 way points for instance.



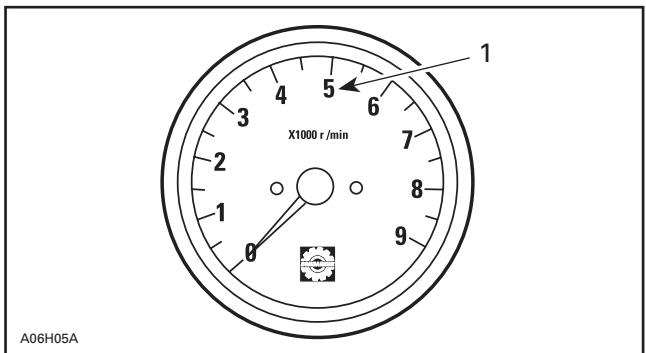
1. Odometer
2. Trip meter
3. Reset button

## 17) Trip Meter Reset Button

To reset, push on button until all numbers read zero.

## 18) Tachometer

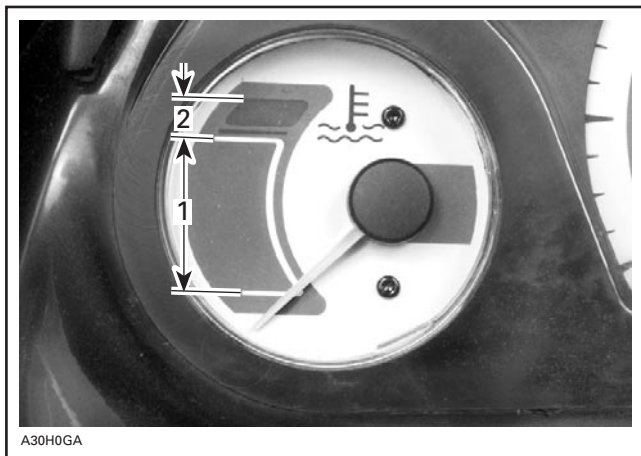
Direct-reading dial indicates the number of thousand of revolutions per minute (RPM) of the engine.



1. Multiply the reading by 1000

## 19) Temperature Gauge

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

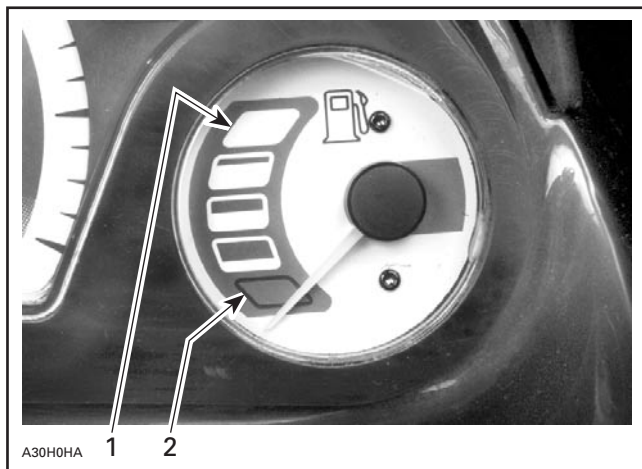


1. Normal
2. Overheat



## 20) Electric Fuel Level Gauge

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



1. Full
2. Empty

## 21) Fuel Tank Cap

Unscrew to fill up tank then fully tighten.

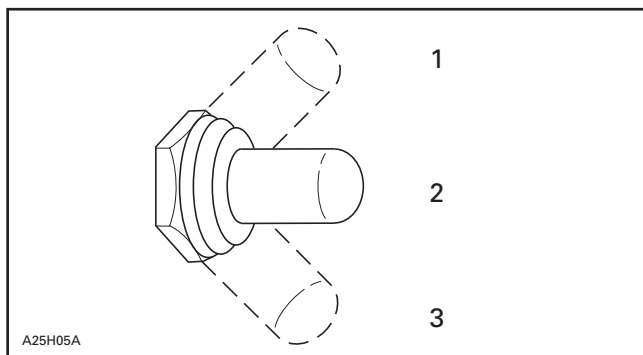
### **WARNING**

Always stop engine before refueling. Fuel tank may be pressurized, open cap slowly. Fuel is flammable and explosive. Never use an open flame to check fuel level. Never smoke or allow flame or spark in vicinity. 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.

**CAUTION:** Do not mismatch oil reservoir cap with fuel tank cap. Install cap that is identified OCTANE RATING OF 91 RECOMMENDED.

## 22) Heated Grip Switch

Three-position toggle switch. Select the desired position to keep your hands at a comfortable temperature.



*TYPICAL*

1. *HOT*
2. *OFF*
3. *WARM*

## 23) Heated Throttle Lever Switch

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

## 24) Hood Latches

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

Always lift hood gently until stopped by retaining device.

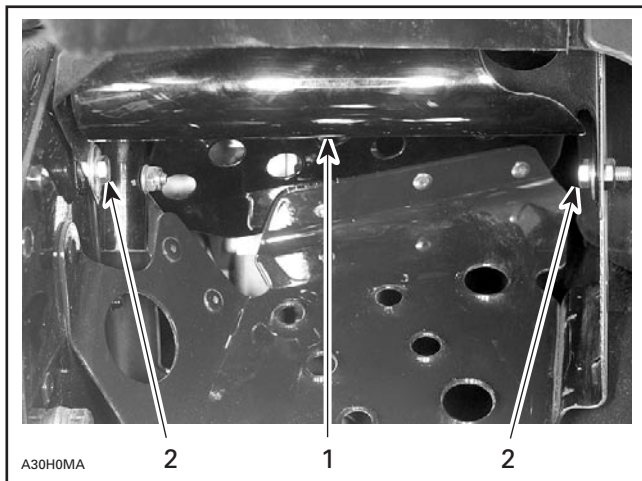
Close hood slowly then hook up latches.

## 25) Adjustable Toeholds

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

### **WARNING**

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

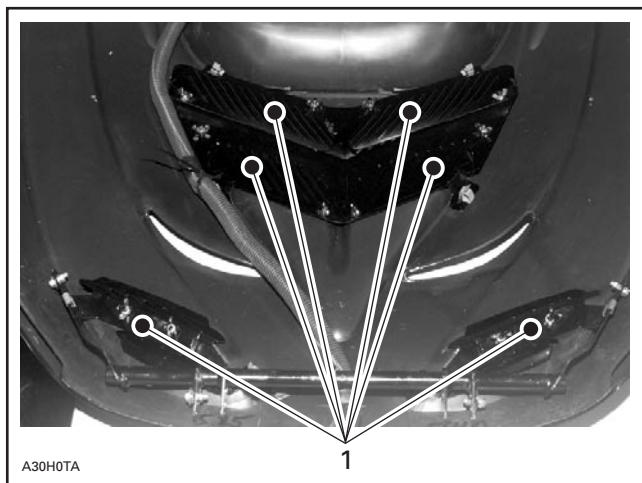


*RIGHT SIDE SHOWN*

1. Toehold
2. After adjustment retighten bolts to 10 N•m (89 lbf•in)

## 26) Hood Grills

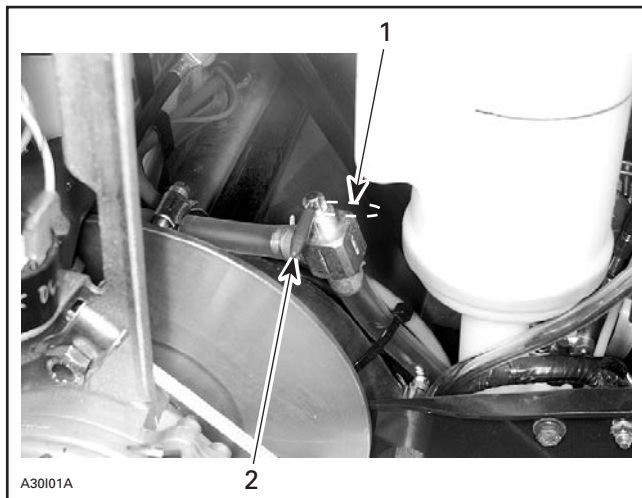
These hood grills must be closed at all times except when riding at high speeds and/or when outside temperature is above 5°C (40°F). Slightly unscrew wing nuts, slide close grills then, retighten wing nuts.



1. Grills

## 27) Fuel Shut-Off Valve

Valve should be closed when transporting or storing snowmobile.



1. *Opened*

2. *Closed*

Fully open the valve in order to operate the snowmobile.

**CAUTION:** Always fully open the valve before riding. Never allow the valve to remain half opened.

## 28) Storage Compartment

A storage compartment is provided inside rear portion of seat.

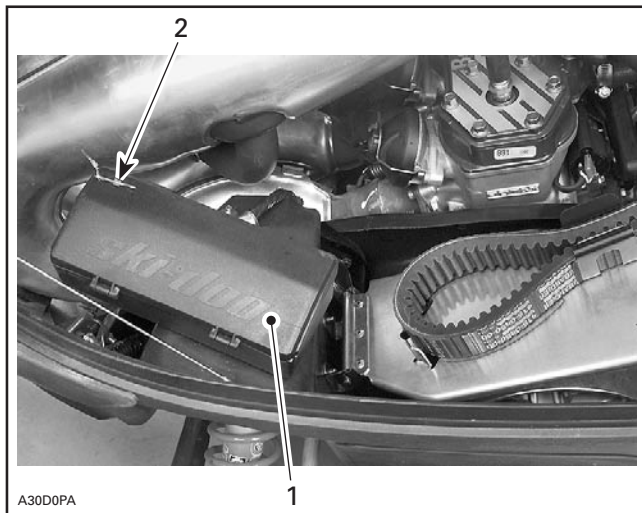
### **WARNING**

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

## 29) Tool Box

A tool box containing tools for basic maintenance is supplied with the vehicle. Tool box is located in engine compartment in front of belt guard.

**NOTE:** The plastic bag containing tools may be discarded to ease storing tools.



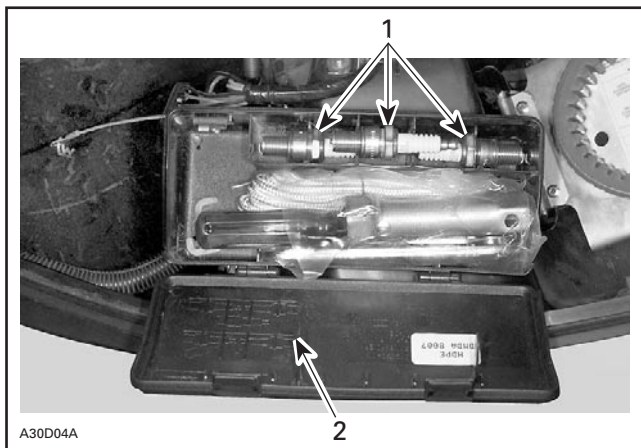
1. Tool box
2. Remove hair pin before opening

## 30) Spark Plug Holder

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

**NOTE:** Always adjust spark plug gap according to SPECIFICATIONS before installation.

**NOTE:** Spare spark plugs are not supplied with the snowmobile.



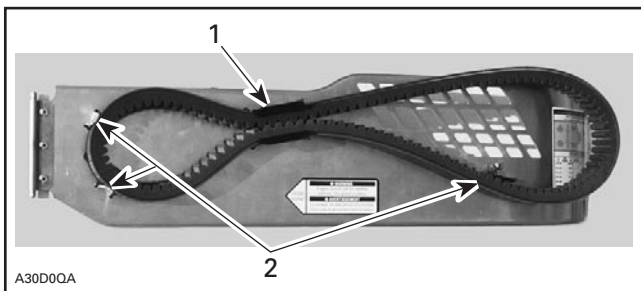
A30D04A

1. Spare spark plugs stored in tool box
2. Instructions for spare spark plugs removal

### 31) Spare Drive Belt Holder

A spare drive belt can be installed in drive belt holder clip. Make sure to position spare drive belt as illustrated.

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



A30D00A

1. Spare drive belt installed in holder clip
2. Spare drive belt on this side of stopper

## 32) Fuse

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

### **WARNING**

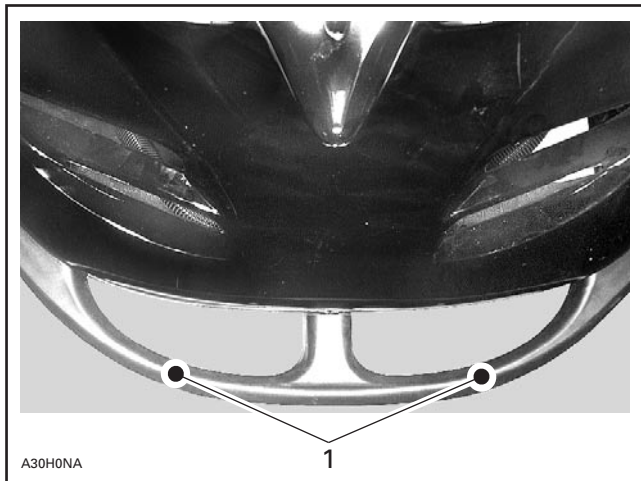
If fuse has burnt out, source of malfunction should be determined and corrected before restarting. See an authorized SKI-DOO dealer for servicing.

## Electric Fuel Level Gauge Fuse

See an authorized SKI-DOO dealer for fuse replacement.

## 33) Front Grab Handles/Front Bumper

To be used whenever front of snowmobile requires manual lifting.



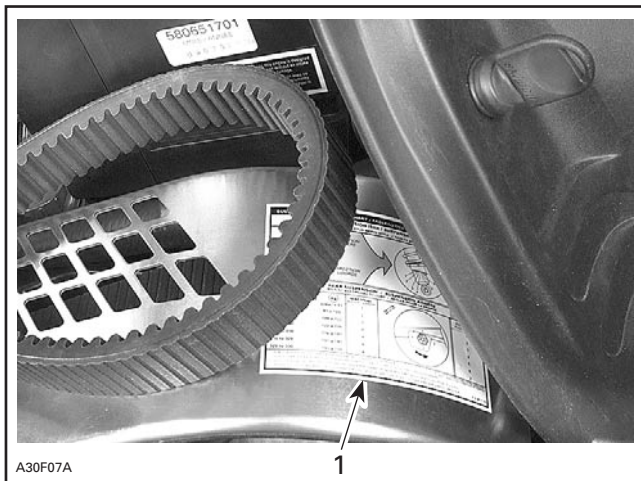
1. Front grab handles

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



### 34) Adjustable Suspensions

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



*TYPICAL*

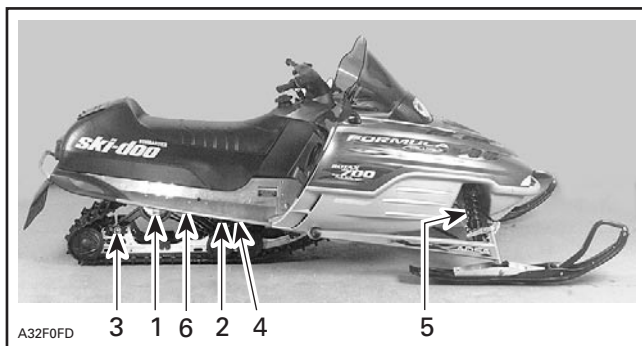
1. Decal

## General

Snowmobile handling and comfort depend upon suspension adjustments.

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

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



### TYPICAL

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

## Guidelines to Adjust Suspension

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

### **WARNING**

Always completely stop vehicle and engine before attempting any suspension adjustments.

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

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

### 1. Rear Springs — Comfort and Ride Height

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



**TYPICAL — PROPER ADJUSTMENT**

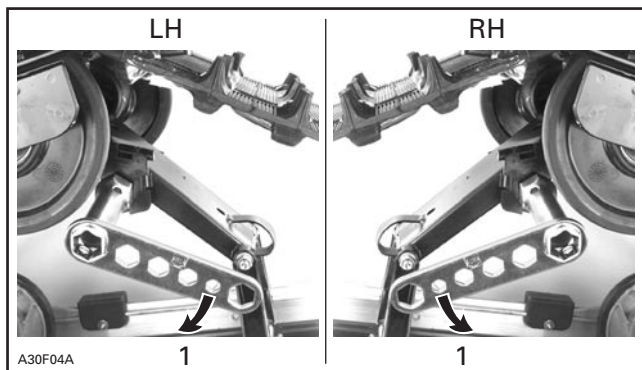
A. 50 to 75 mm (2 to 3 in)



*TYPICAL — TOO SOFT OF ADJUSTMENT*



Turn the left side adjustment cam in a clockwise direction, the right side cam in a counterclockwise direction. Left and right adjustment cams may be set at different position.



*TYPICAL*

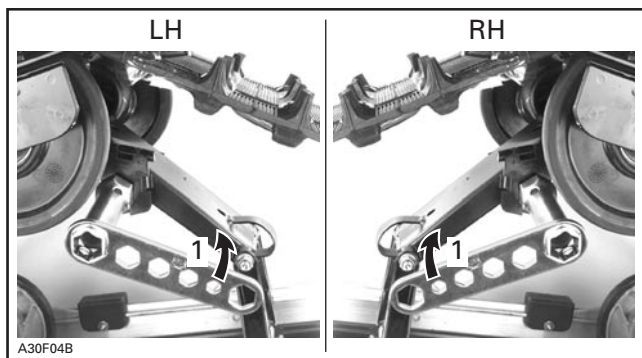
1. Increase spring preload



*TYPICAL — TOO HARD OF ADJUSTMENT*



Turn the left side adjustment cam in a counterclockwise direction, the right side cam in a clockwise direction. Left and right adjustment cams may be at different position.



*TYPICAL*

1. *Decrease spring preload*

## 2. Center Spring — Steering Behavior

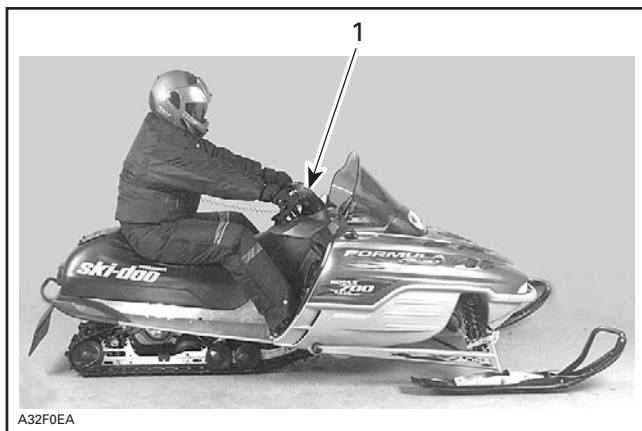
Ride at moderate speed on a trail.

If steering is too easy or too hard to turn, adjust center spring accordingly.



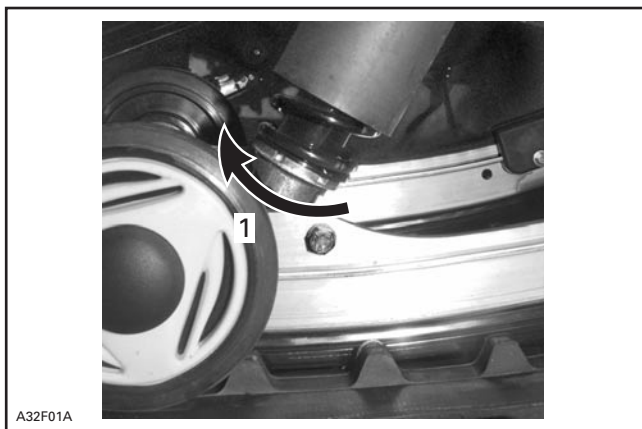
**TYPICAL — GOOD ADJUSTMENT AT MODERATE SPEED**

1. Steering easy to turn



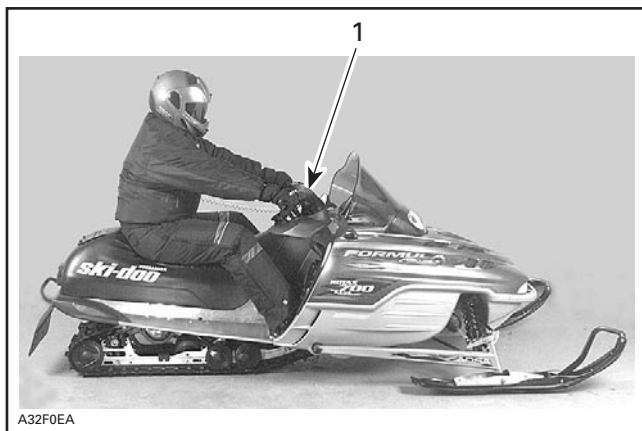
**TYPICAL — TOO SOFT OF ADJUSTMENT**

1. Steering hard to turn



**TYPICAL**

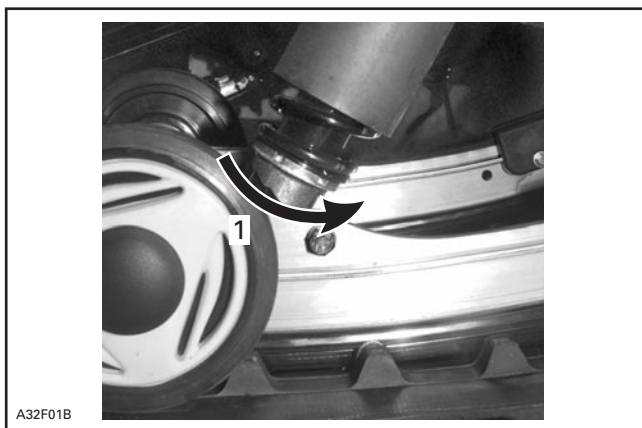
1. Use adjuster wrench provided in tool box to increase preload



A32F0EA

**TYPICAL — TOO HARD OF ADJUSTMENT**

1. *Steering less aggressive*



A32F01B

**TYPICAL**

1. *Use adjuster wrench provided in tool box to decrease preload*



### 3. Coupling Blocks — Handling

Ride at moderate speed and check for desired handling.

When driver and passenger (if applicable) take place the coupling blocks should be centered between rubber stoppers. This condition is achieved when a proper rear spring preload is done. See above REAR SPRING ADJUSTMENT.

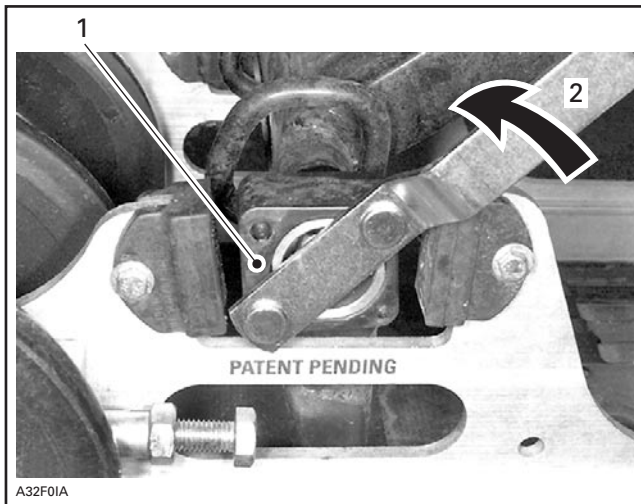
If handling requires adjustment, turn both left and right blocks by 90°.

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

#### **⚠ WARNING**

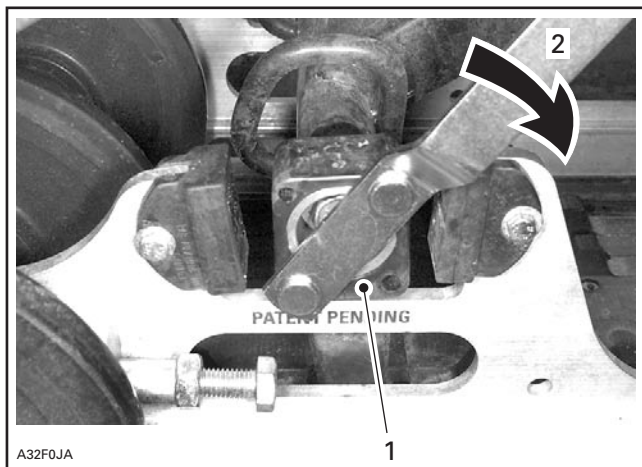
Both blocks must be set at the same position. Otherwise vehicle behavior may be unpredictable and suspension may become warped.

Use tool provided in tool box to adjust coupling blocks.



**COUPLING BLOCK — RIGHT SIDE VIEW (“R” — RIGHT EMBOSSED ON BLOCK)**

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



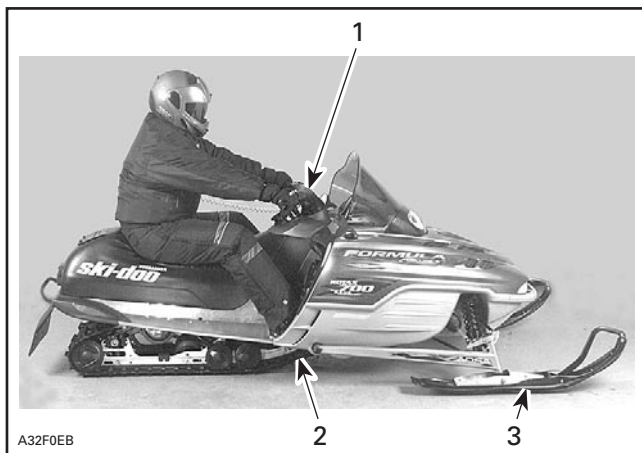
**COUPLING BLOCK — RIGHT SIDE VIEW**  
(“R” — RIGHT EMBOSSED ON BLOCK)

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

#### 4. Stopper Strap — Weight Transfer

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

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



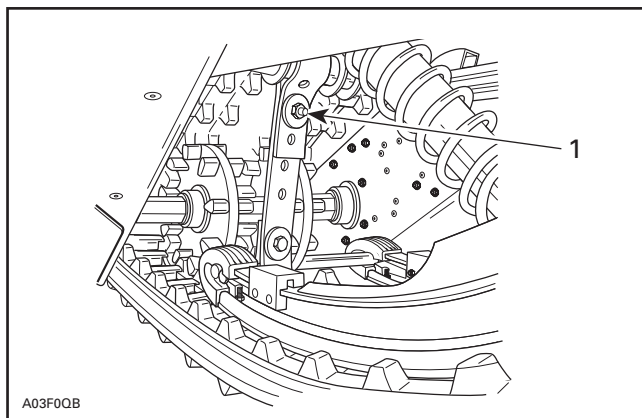
**TYPICAL — GOOD ADJUSTMENT AT FULL ACCELERATION**

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



**TYPICAL — TOO LONG STRAP**

1. Skis lift off the ground



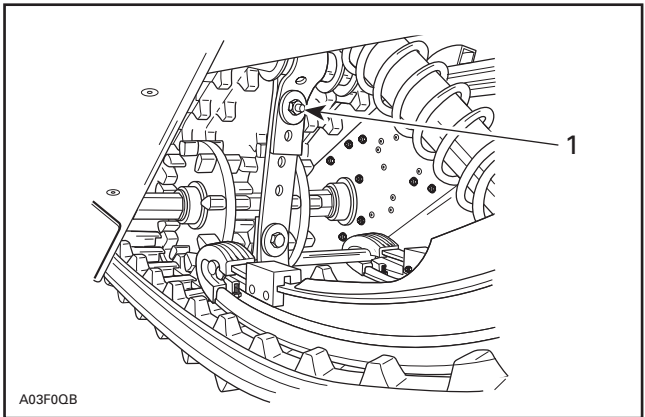
**TYPICAL**

1. Reduce strap length by bolting to a different hole



**TYPICAL — TOO SHORT STRAP**

1. Heavy steering



**TYPICAL**

1. Increase strap length by bolting to a different hole

## 5. Front Springs — Handling

Ride at moderate speed and check for proper handling.

Adjust front springs accordingly.

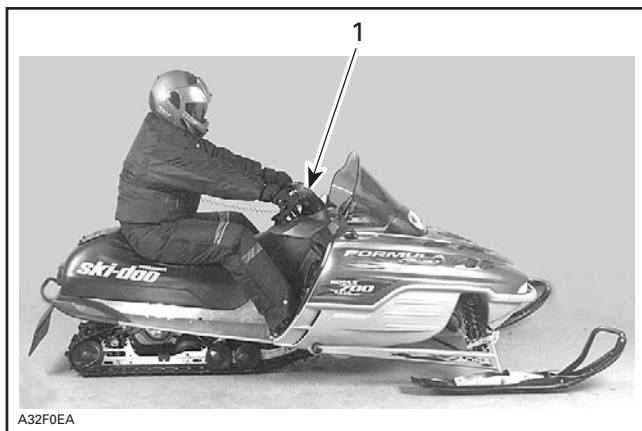
### **WARNING**

Always adjust both front springs to same position.



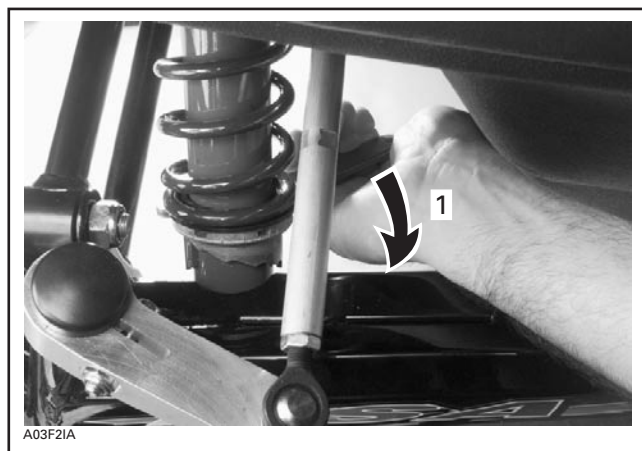
#### **TYPICAL — PROPER ADJUSTMENT**

1. *Good handling and comfortable steering*

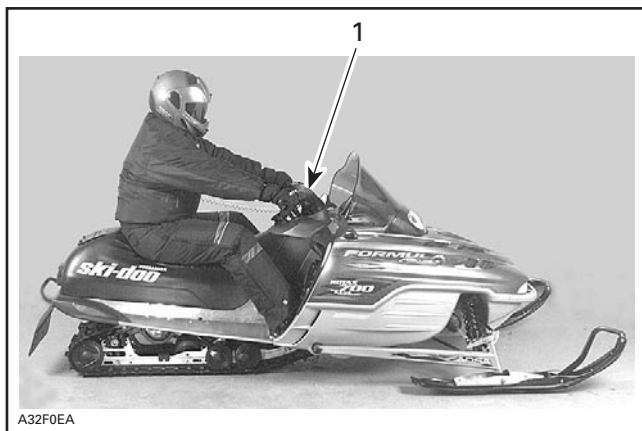


**TOO SOFT OF ADJUSTMENT**

1. Bad handling

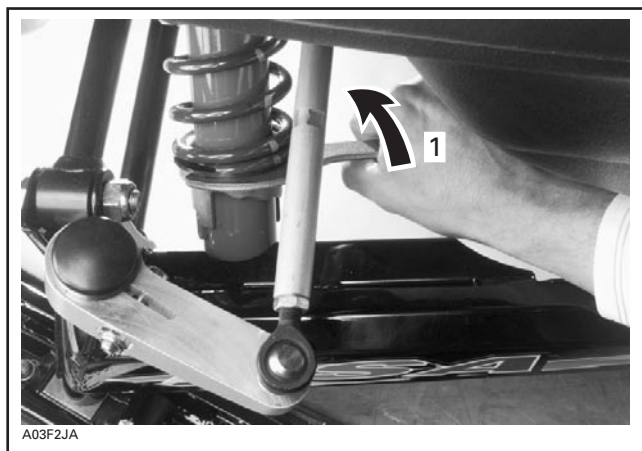


1. Increase spring preload



**TOO HARD OF ADJUSTMENT**

1. Steering hard to turn



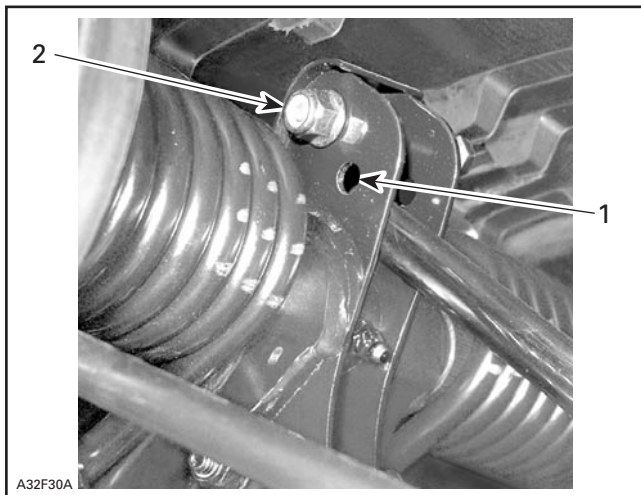
1. Decrease spring preload



## 6. Rear Shock Motion Ratio — Damping Strength

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

There are two adjustment positions.



1. *Soft position*
2. *Firm position*

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

## TROUBLESHOOTING CHART

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

### In Deep Snow

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

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## FUEL AND OIL

### Recommended Fuel

Use super unleaded gasoline, available from most service stations or oxygenated fuel containing less than 10% of ethanol or 5% of methanol. The fuel used must have an octane number  $(R + M)/2$  of 91 or higher.

**NOTE:** In most service station pump octane number corresponds to  $(R + M)/2$  octane number.

**CAUTION:** Never experiment with other fuels. The use of unrecommended fuel can result in snowmobile performance deterioration and damage to critical parts in the fuel system and engine components. Do not mismatch oil reservoir cap with fuel tank cap. Install cap that is identified OCTANE RATING OF 91 RECOMMENDED.

### WARNING

Always stop engine before refueling. Fuel tank may be pressurized, open cap slowly. Fuel is flammable and explosive. 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.

### Fuel System Antifreeze

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

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

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

**IMPORTANT:** Use only methyl hydrate free gas line antifreeze.

## Recommended Oil

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

Oil is contained in the injection oil reservoir.

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

MODEL	OIL TYPE
All	BOMBARDIER FORMULA XP-S II synthetic injection oil (or equivalent) OR BOMBARDIER injection oil (or equivalent) ① ②

- ① If BOMBARDIER injection oil is not available, API TC high-quality low ash two-stroke injection oil may be used.
- ② BOMBARDIER FORMULA XP-S II synthetic injection oil and BOMBARDIER injection oil are compatible, they can be mixed together.

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

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

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

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

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

 **WARNING**

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

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## **COLD WEATHER CARBURETION MODIFICATIONS**

All vehicles have been calibrated for - 20°C (- 4°F). They can be operated at warmer winter temperatures without problems.

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

Refer also to RIDING AT HIGH ALTITUDES in following pages.

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## BREAK-IN PERIOD

### Engine

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

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

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

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

### Belt

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

### 10-Hour Inspection

As with any precision piece of mechanical equipment, we suggest that after the first 10 hours of operation — 500 km (300 miles) — or 30 days after the purchase, whichever comes first, your snowmobile be checked by an authorized SKI-DOO dealer. This inspection will give you the opportunity to discuss the unanswered questions you may have encountered during the first hours of operation.

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

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## PRE-OPERATION CHECK

### **WARNING**

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

- Remove snow and ice from body including seat, footrests, lights, controls and instruments.
- Verify that track and idler wheels are unfrozen and free to turn.

### **WARNING**

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

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

### **WARNING**

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

- Check operation of tether and engine cut-out switches, headlight switch (HI-LO), taillight, brake light and indicator lights.
- Verify that skis and steering operate freely. Check corresponding action of skis versus handlebar.
- Check fuel and injection oil for levels and leaks. Replenish as necessary and see an authorized SKI-DOO dealer in case of any leaks.
- Verify that air filter(s) is free of snow and ice, if so equipped.

 **WARNING**

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

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



## PRE-OPERATION CHECK LIST

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

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## OPERATING INSTRUCTIONS

### **WARNING**

Proceed with pre-operation check list before riding.

### **WARNING**

Operator and passenger (if applicable) must be properly seated before riding.

## Principle of Operation

### Propulsion

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

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

The driven pulley senses the load on the track and limits the belt movement. The result is a continuous change in the ratio of the two pulleys which maximizes acceleration and movement of the vehicle.

### **WARNING**

Do not operate engine with hood open or belt guard removed.

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

### **WARNING**

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

### Turning

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

### **WARNING**

Fast reverse could result in loss of stability.

## Starting the Engine

- Re-check throttle control lever operation.
- Ensure that engine cut-out switch is in the ON position.
- Ensure that tether cord cap is set in place and that cord is attached to your clothing.

### Initial Cold Starting

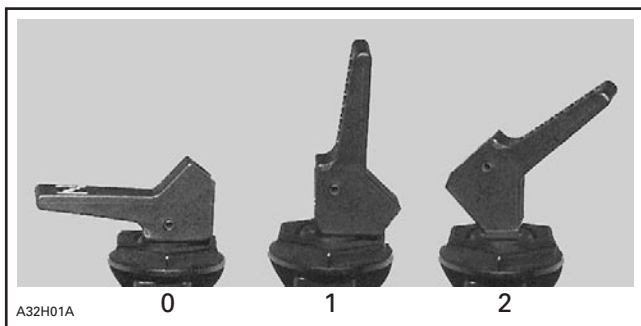
**NOTE:** Do not operate the throttle lever during starting.

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

Set the choke lever to the second position.

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

After the engine is started, close off choke to ensure proper air-fuel mix when speed drops below 2000 RPM.



0. OFF
1. Position 1
2. Position 2

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

Set the choke lever to the first position.

Grasp starter handle firmly and crank engine.

After the engine is started, close off choke to ensure proper air-fuel mix.

### Warm Engine Starting

Start the engine without any choke. If the engine will not start after two pulls of the rope or two 5 second attempts with the electric starter move choke lever to position 1. Start the engine without activating the throttle lever. As soon as the engine starts move the choke lever to OFF.

## Manual Starting

Install tether cord cap on DESS post. Turn on engine cut-out switch.

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

### **WARNING**

Do not apply throttle while starting.

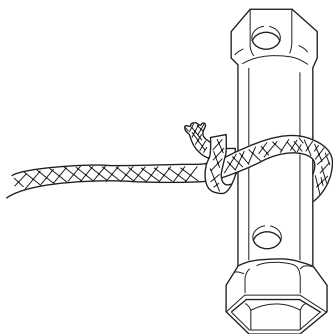
## Emergency Starting

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

Remove belt guard.

Attach emergency rope to rewind handle and to the starter clip supplied in the tool box.

Use the spark plug socket as an emergency handle.



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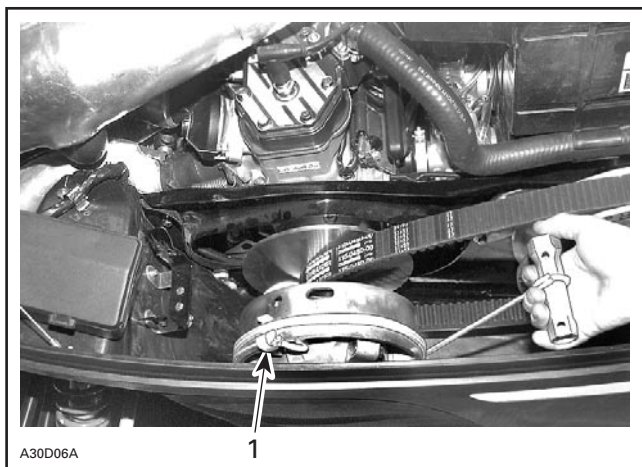
### **WARNING**

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.



Tie a knot near clip. Hook up clip on drive pulley and wind counterclockwise up to 3 turns.

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



1. *Clip*

Start engine as described in COLD ENGINE STARTING or WARM ENGINE STARTING according to engine temperature.

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

 **WARNING**

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

## Shutting Off the Engine

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

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

 **WARNING**

Never leave tether cord on vehicle when not in operation in order to prevent accidental engine starting.

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## VEHICLE WARM-UP

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

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

Attach tether cord to operator's clothing eyelet.

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

Release parking brake.

### **WARNING**

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

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

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

Skis may be frozen on the ground. Grasp both skis by their loops and lift them.

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

---

## POST-OPERATION CARE

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

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

Protect vehicle with a snowmobile cover.

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## SPECIAL OPERATIONS

### Riding at High Altitudes

If you ride at altitudes above 600 m (2000 ft), your snowmobile should have modifications. Refer to an authorized SKI-DOO dealer.

**CAUTION:** Do not change original factory calibration if snowmobile is used below 600 m (2000 ft).

### Engine Overheating

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

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

### Fuel Flooded Engine

#### *All Models*

#### **WARNING**

Do not hold throttle partially or fully open when starting a fuel flooded engine.

Install new spark plugs and restart engine.

### Rear Suspension Slider Shoe Starts Sticking

#### *All Models*

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

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

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







# PERIODIC MAINTENANCE CHART

## WARNING

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

Some items may not apply to your particular model. Refer to LUBRICATION and MAINTENANCE in *Shop Manual* for more details.

- ① 10-HOUR OR 500 km (300 miles) INSPECTION  
(To be performed by an authorized SKI-DOO dealer)
- ② WEEKLY OR EVERY 240 km (150 miles)
- ③ MONTHLY OR EVERY 800 km (500 miles)
- ④ ONCE A YEAR OR EVERY 3200 km (2000 miles)
- ⑤ STORAGE (To be performed by an authorized SKI-DOO dealer)
- ⑥ PRE-SEASON PREPARATION (To be performed by an authorized SKI-DOO dealer)

PERIODIC MAINTENANCE CHART		①	②	③	④	⑤	⑥
	Rewind Starter Lubrication and Starting Rope Condition					✓	✓
	Engine Nuts and Screws	✓			✓	✓	
	Exhaust System	✓		✓		✓	
	Engine Lubrication					✓	✓
	Cooling System Condition	✓			✓		✓
	Coolant Replacement					✓	✓
	Condition of Seals					✓	✓
	Injection Oil Filter Condition			✓			
	Injection Oil Filter Replacement					✓	
	Injection Oil Pump Adjustment	✓			✓		
	Fuel Stabilizer					✓	
	Fuel Filter Replacement						✓
	Fuel Lines and Connections	✓				✓	✓
	Carburetor Adjustment	✓			✓		✓
	Carburetor Cleaning						✓
	Throttle Cable Inspection	✓			✓	✓	✓
	Air Filter Cleaning			✓			✓

<b>PERIODIC MAINTENANCE CHART</b>		①	②	③	④	⑤	⑥
	Drive Belt Condition	✓	✓				✓
	Condition of Drive and Driven Pulleys	✓		✓		✓	
	Cleaning of Drive and Driven Pulleys				✓		✓
	Retorquing of Drive Pulley Screw	✓			✓		✓
	Driven Pulley Preload	✓			✓	✓	
	Brake Fluid Level	✓	✓				✓
	Brake Fluid (change once a year)					✓	
	Brake Condition	✓	✓			✓	✓
	Drive Chain Tension	✓		✓		✓	
	Countershaft Lubrication**	✓		✓		✓	
	Chaincase Oil Level	✓		✓			✓
	Chaincase Oil Change	✓				✓	
	Lubrication of Drive Axle End Bearing**	✓		✓		✓	
	Steering and Front Suspension Mechanism Lubrication**	✓			✓	✓	
	Steering and Front Suspension Mechanism Condition	✓		✓		✓	
	Wear and Condition of Skis and Runners	✓	✓			✓	
	Steering and Ski Leg Adjustment	✓		✓		✓	
	Suspension Adjustments	AS REQUIRED					
	Suspension Lubrication**				✓	✓	
	Suspension Condition	✓		✓	✓	✓	
	Suspension Stopper Strap Condition				✓	✓	
	Track Condition	✓		✓		✓	
	Track Tension and Alignment	✓	AS REQUIRED				
	Spark Plugs* Condition	✓		✓			✓
	Battery Condition (if so equipped)	✓		✓		✓	✓
	Headlight Beam Aiming				✓		✓
	Wiring Harnesses, Cables and Lines	✓		✓		✓	
	Operation of Lighting System (HI/LO Beam, Brake Light, etc.) Test Operation of Engine Cut-Out Switch and Tether Cut-Out Switch	✓	✓			✓	
	Rags in Air Intake and Exhaust System					✓	✓
	Engine Compartment	✓		✓		✓	
	Vehicle Cleaning and Protection	✓		✓		✓	

\* Before installing new properly gapped spark plugs at pre-season preparation, it is suggested to burn excess storage oil by starting the engine with the old spark plugs. Only perform this operation in a well ventilated area.

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

## FLUID LEVELS

### **WARNING**

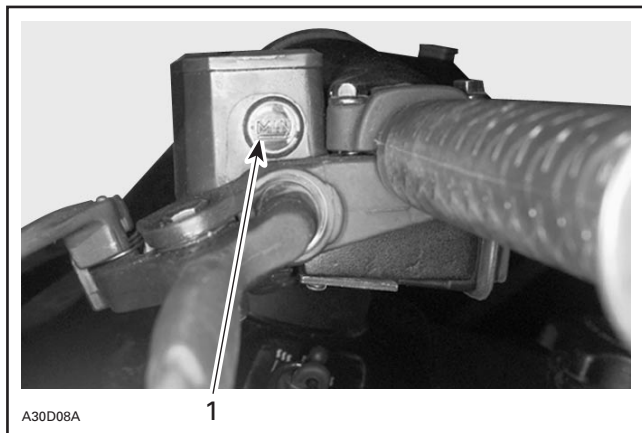
It is recommended that the assistance of an authorized SKI-DOO dealer be periodically obtained on other components/systems not covered in this guide. Unless otherwise specified, engine must be cold and not running. The tether cord cap must be removed for all maintenance procedures.

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

### **Brake System**

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

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



**TYPICAL — BRAKE FLUID RESERVOIR**

1. Minimum

## Chaincase Oil Level

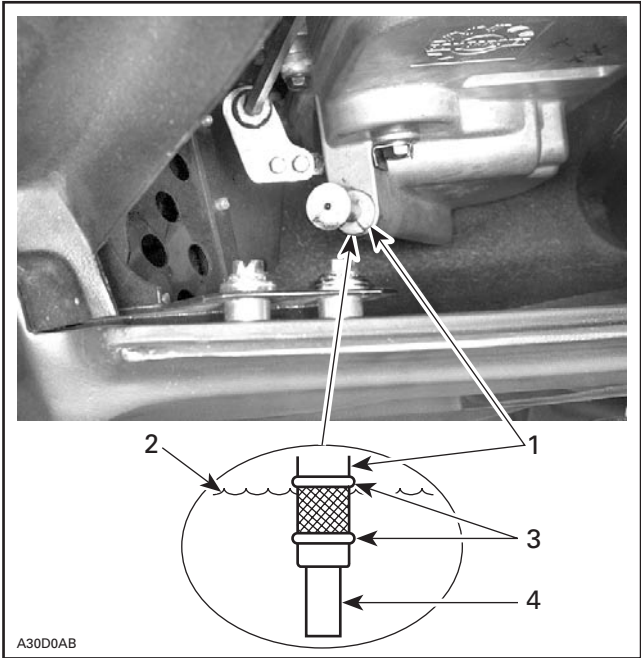
With snowmobile on a level surface, check the oil level by removing dipstick. Oil level must be between lower and upper marks.

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

Remove metal particles from magnet.

Refill up to upper mark using BOMBARDIER synthetic chaincase oil (P/N 413 803 300 — 12 x 355 mL).

**CAUTION:** Use BOMBARDIER synthetic chaincase oil or suitable equivalent when servicing. Do not mix synthetic oil with other oils.



### TYPICAL

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

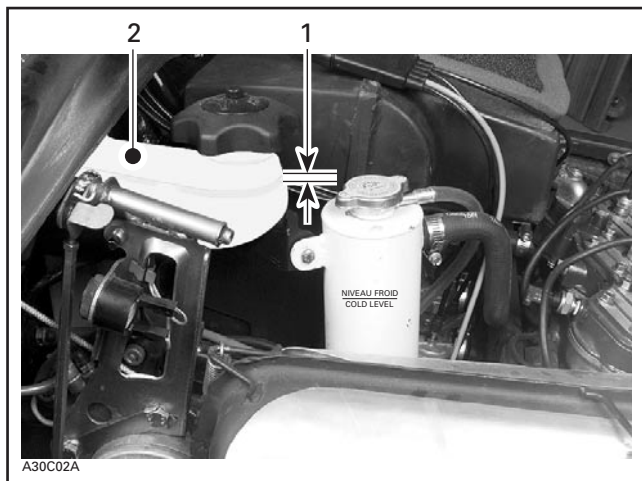
## Oil Injection System

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

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

### **WARNING**

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



#### TYPICAL

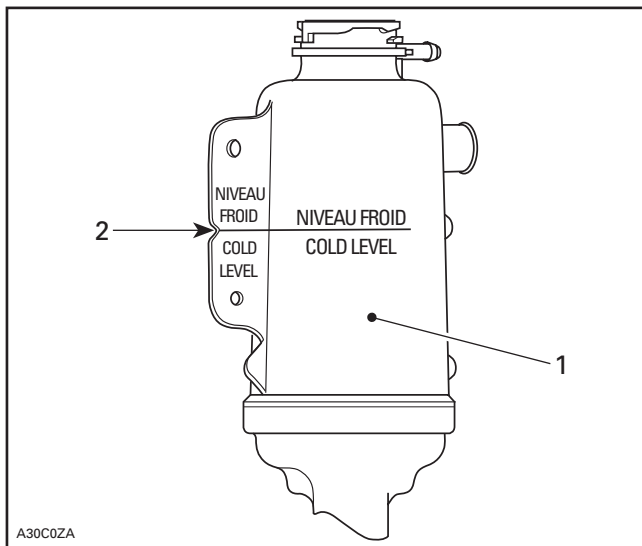
1. Maximum level: 13 mm (1/2 in) from top
2. Injection oil reservoir

## Cooling System

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

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

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



1. Coolant tank
2. COLD LEVEL line

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## MAINTENANCE

### **WARNING**

It is recommended that the assistance of an authorized SKI-DOO dealer be periodically obtained on other components/systems not covered in this guide. Unless otherwise specified, engine must be cold and not running. The tether cord cap must be removed for all maintenance procedures.

### Vehicle Cleaning and Protection

Remove any dirt or rust.

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

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

To clean the entire vehicle, including bottom pan and metallic parts use Heavy duty cleaner (P/N 293 110 001 (spray can 400 g) and P/N 293 110 002 (4 L)).

**CAUTION:** Do not use Pulley flange cleaner on decals or vinyl.

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

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

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

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

Inspect the hood and repair any damage.

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

Wax the hood and the painted portion of the frame for better protection.

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

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

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

**NOTE:** Do not release track tension.

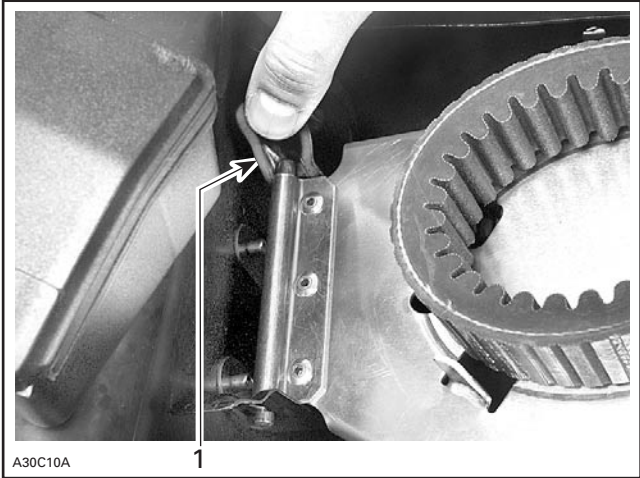
## Belt Guard Removal and Installation

### **WARNING**

Engine should be running only when belt guard is secured in place.

Turn off engine cut-out switch. Open hood.

Open retainer to release pin then pull belt guard toward front.

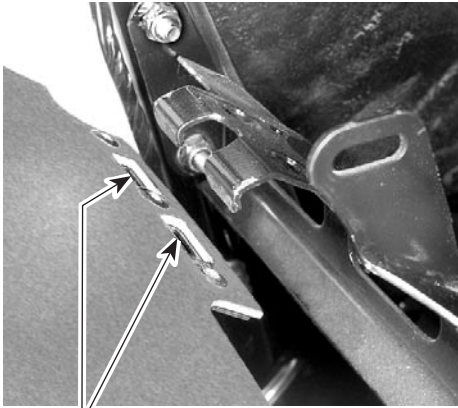


1. Pin retainer

When reinstalling belt guard, position its cut-away toward front of snowmobile. Refer to decal on belt guard.

Insert belt guard slots at rear first.

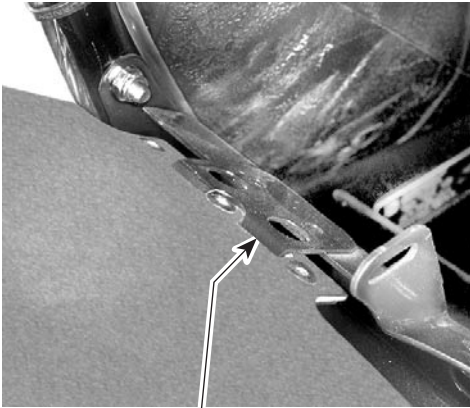




A30C06A

1

1. Slots



A30C07A

1

1. Rear of belt guard properly installed

Push down front portion of belt guard in retainer.

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

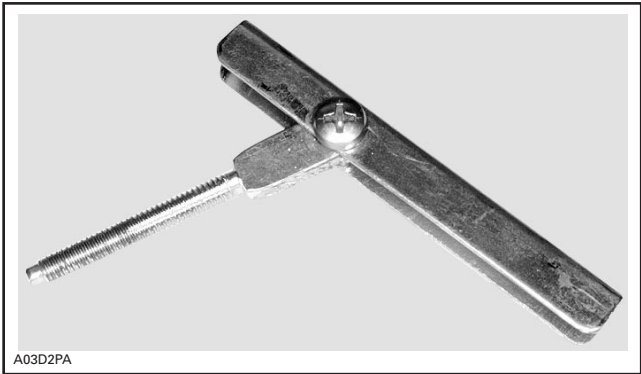
## **Drive Belt Removal/Installation**

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

Turn off engine cut-out switch.

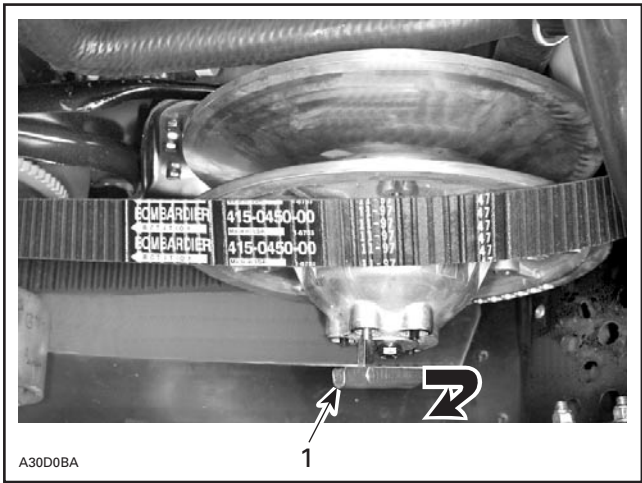
Open hood and remove belt guard.

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



### ***DRIVE BELT INSTALLER/REMOVER***

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

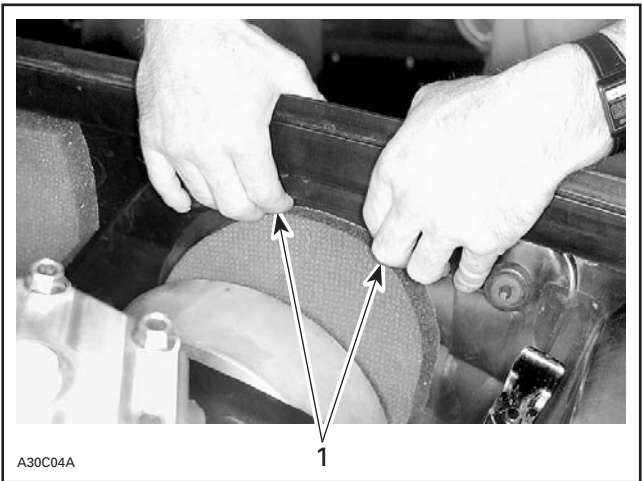


A30D0BA

1. Tighten to open pulley

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

Remove access panel from bottom pan.



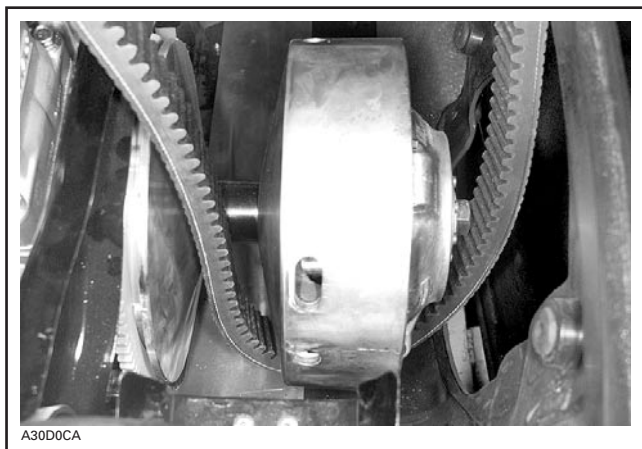
A30C04A

1. Push top of panel out of bottom pan



1. Pull panel tab out of bottom pan

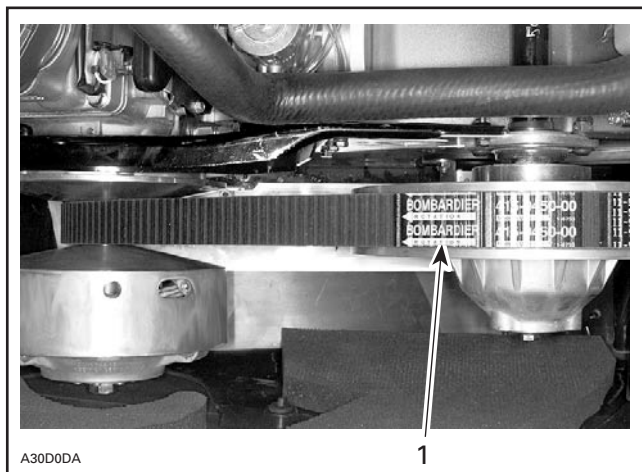
Slip belt under drive pulley then, remove it from vehicle.



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

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

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



1. Arrow pointing front of vehicle

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

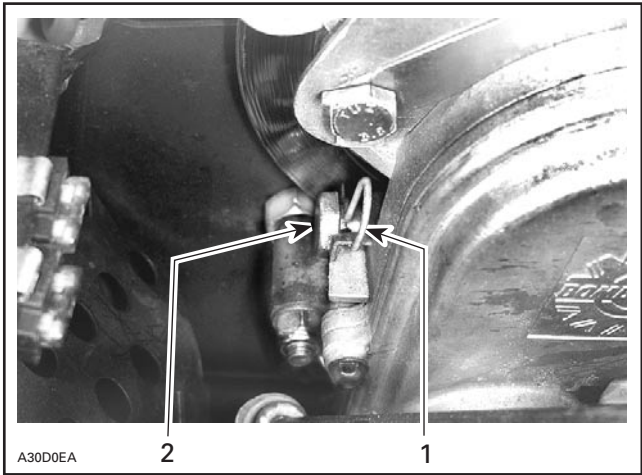
To install the drive belt, first place belt between drive pulley sheaves. Then, between driven pulley sheaves, finishing with bottom.

Remove drive belt installer/remover. Reinstall access panel and belt guard.

## Drive Chain Tension

Remove hair pin.

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



1. Hair pin
2. Adjustment screw

## TRA Drive Pulley Adjustment

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

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

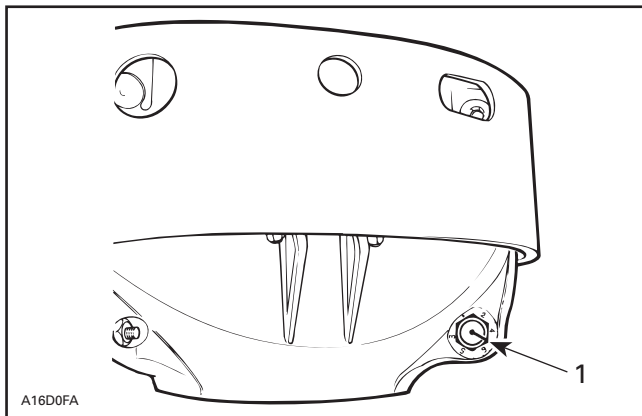
Calibration screws should be adjusted so that actual maximum engine RPM in vehicle matches with the maximum horsepower RPM.

**NOTE:** Use precision digital tachometer for engine RPM adjustment.

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

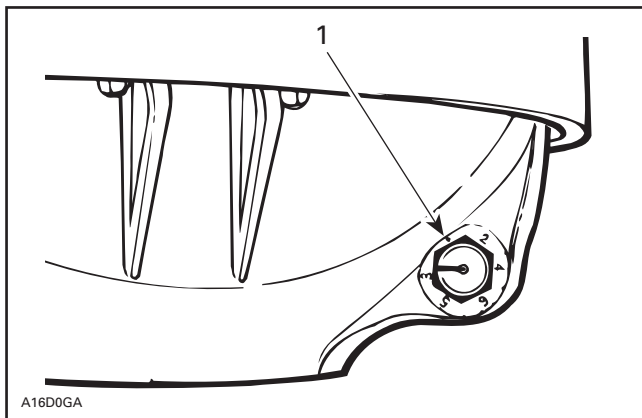
To adjust, turn calibration screws.

Calibration screw has a notch on top of its head.



1. Notch

Governor cup has 6 positions numbered 2 to 6. Note that in position 1 the number is substituted by a dot (due to its location on casting).



1. Position 1 (not numbered)

Each number modifies maximum engine RPM by about 200 RPM.

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

Example:

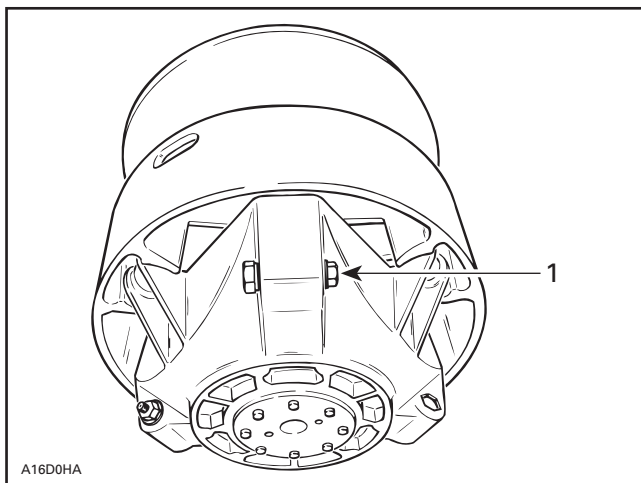
Calibration screw is set at position 4 and is changed to position 6. So maximum engine RPM is increased by 400 RPM.

**CAUTION:** Do not adjust TRA drive pulley so that engine turns over maximum power RPM. Refer to SPECIFICATIONS.

To adjust:

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

**CAUTION:** Do not completely remove calibration screw or its inside washer will fall off. Always adjust all 3 calibration screws and make sure they are all set at the same number.



A16D0HA

1. Loosen just enough to permit rotating of calibrate screw



## **WARNING**

Always reinstall belt guard. Do not operate engine with hood open or belt guard removed. Improper servicing, modification or poor adjustment may affect drive pulley performance and belt life. Always refer to the *Shop Manual* or obtain an authorized SKI-DOO dealer advice before servicing or modifying the drive or driven pulleys. Always respect maintenance schedules.

### **Drive Belt Condition**

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

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

### **Brake Condition**

## **WARNING**

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

### **Brake Adjustment**

A hydraulic brake is not adjustable. See an authorized SKI-DOO dealer if any problems.

### **Rear Suspension Condition**

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

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

## Suspension Stopper Strap Condition

Inspect stopper strap for wear and cracks, bolt and nut for tightness. If loose inspect holes for deformation. Replace as required. Torque nut to 9 N•m (80 lbf•in).

## Track Condition

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

### **WARNING**

Do not modify track, including by installing traction enhancing products. At speed it may cause the track to tear and separate from vehicle posing a risk of severe injury or death. Do not operate or rotate a track if torn, damaged or excessively worn (fibers showing).

## Track Tension and Alignment

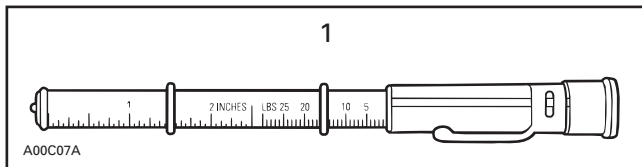
### Tension

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

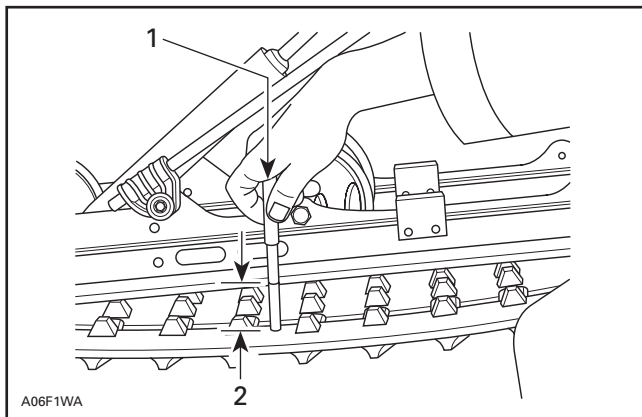
Lift rear of snowmobile and support it with a wide-base snowmobile mechanical stand.

Allow the suspension to extend normally and check gap half-way along slider shoe. The gap should be as given in SPECIFICATIONS. If the track tension is too loose, track will have a tendency to thump.

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



1. Belt tension tester



*TYPICAL*

1. 7.3 kg (16 lb)

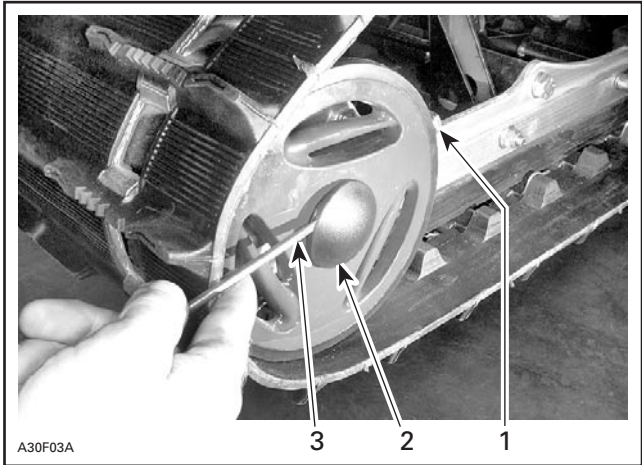
2. Deflection

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

**To adjust tension:**

- Remove wheel cap.
- Loosen the rear idler wheel retaining screws.
- Turn adjustment screws to adjust.

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



**TYPICAL**

1. Adjustment screw
2. Loosen screw
3. Wheel cap removing

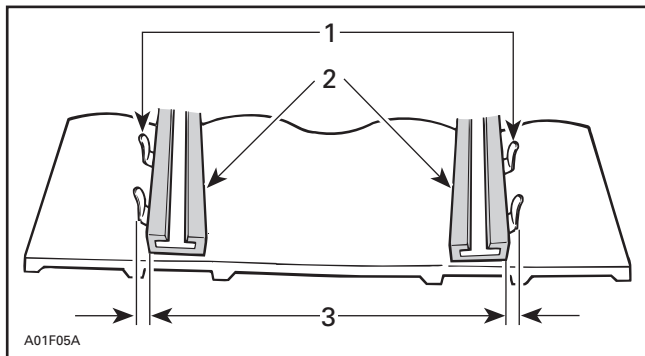
**Alignment**

**NOTE:** Track tension and alignment are inter-related. Do not adjust one without the other.

**⚠ 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. Ensure no one is standing in close proximity to the snowmobile. Never rotate track at high speed.

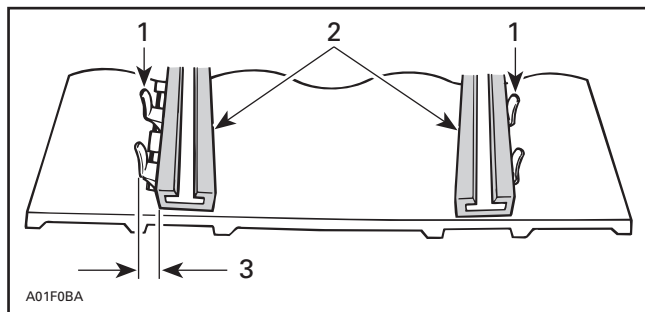
Start the engine and accelerate slightly so that track barely turns. This must be done in a short period of time (1 to 2 minutes). Check that the track is well centered; equal distance on both sides between edges of track guides and slider shoes.



**TYPICAL**

1. Guides
2. Slider shoes
3. Equal distance

To correct, **stop the engine**: Loosen rear wheel screws tighten the adjustment screw on side where the slider shoe is the farthest from the track insert guides.



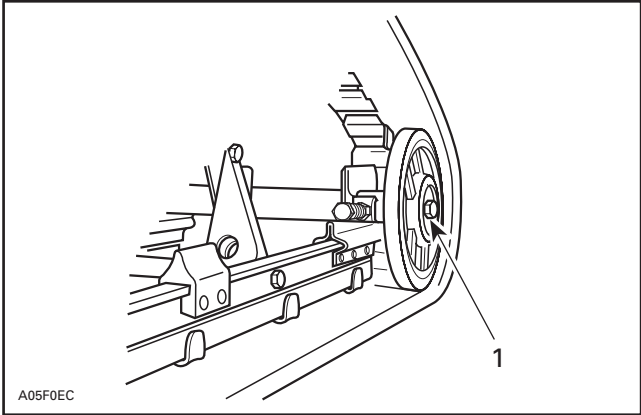
**TYPICAL**

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

Retighten wheel screws to 48 N•m (35 lbf•ft).

## **WARNING**

Properly tighten wheel screws, otherwise wheel may come off and cause track to “lock”.



### **TYPICAL**

1. Retighten to 48 N•m (35 lbf•ft)

Restart engine and rotate track slowly to recheck alignment.

Reposition snowmobile on ground.

## **Steering and Front Suspension Mechanism**

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

## **Wear and Condition of Skis and Runners**

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

## **WARNING**

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

## Exhaust System

The tail pipes of the muffler should be centered with the exit holes in the bottom pan. Exhaust system must be free of rust or leaks. Make sure that gear clamps are properly tightened.

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

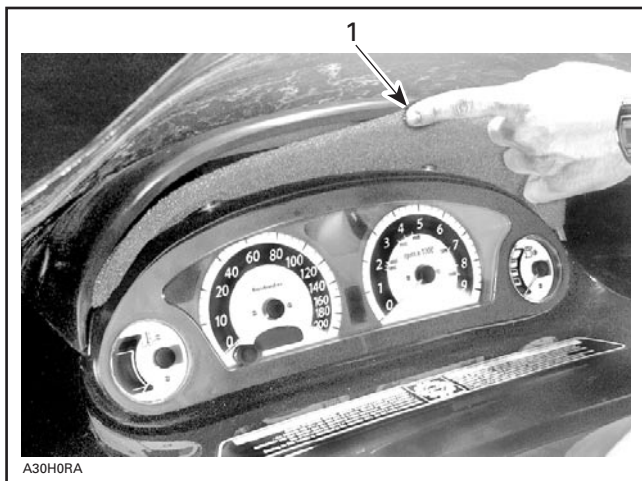
**CAUTION:** If any exhaust system component is removed, modified or damaged, severe engine damage may result.

## Air Filter Cleaning

Leaving the snowmobile uncovered during a snowfall or riding in deep powder snow may block air filter and choke the engine.

While riding in deep powder snow, periodically stop then shake the snow from the filter and reinstall filter.

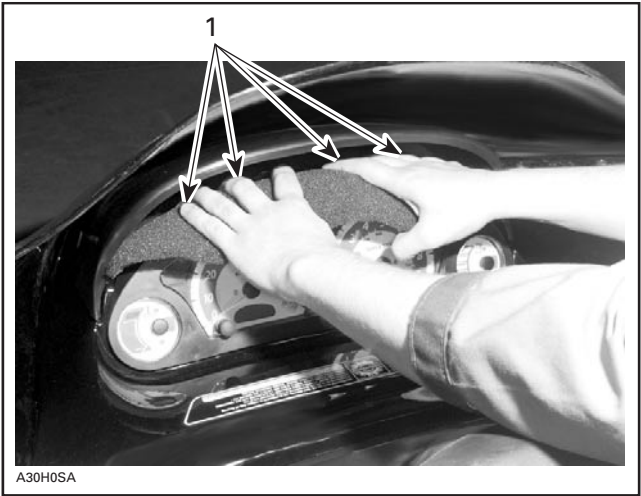
Insert air filter so its top edge is flush with air deflector.



TYPICAL

1. Top edge of filter flush with air deflector

Reinstall filter over dashboard sticking bottom edge first.

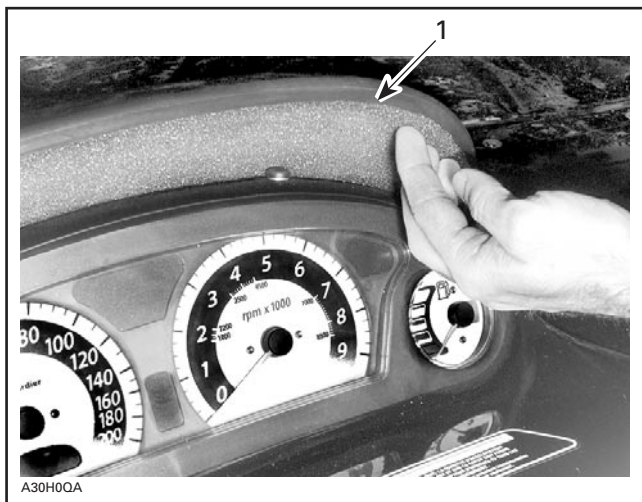


**TYPICAL**

1. Stick bottom edge first

Finalize filter top edge installation.





*TYPICAL*

1. Push top edge of filter under air deflector lip

Check air silencer filter for snow. Remove filter and shake it as required.



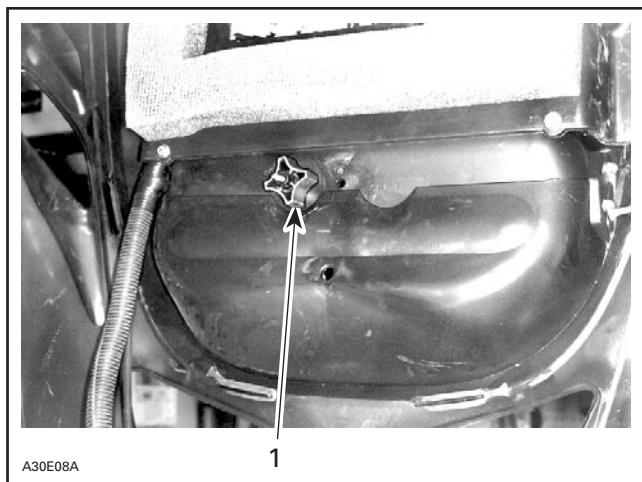
*AIR SILENCER FILTER INSTALLED*

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

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

## Headlight Beam Aiming

Turn knob to adjust beam height.



1. Knob

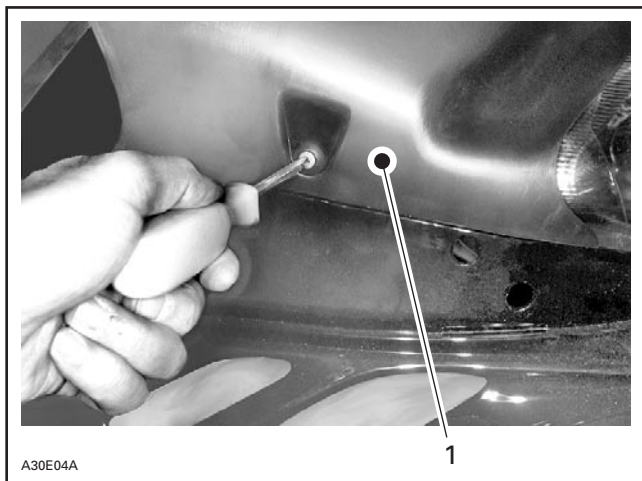
## Bulb Replacement

Always check light operation after bulb replacement.

### Headlight

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

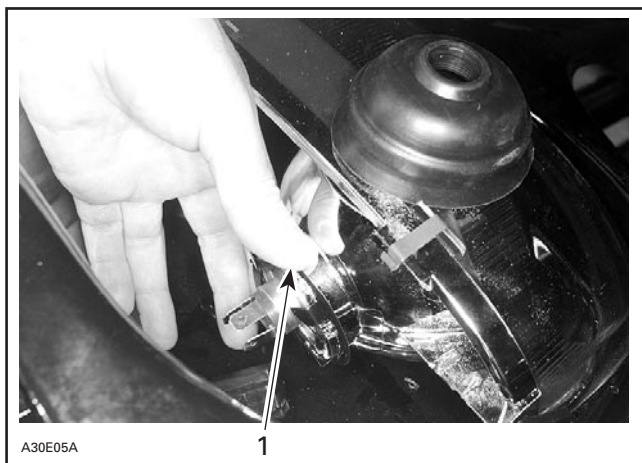
If any headlight bulb is burnt, remove windshield, air filter then, air deflector.



1. Air deflector

Unplug burnt bulb connector. Remove the rubber boot.

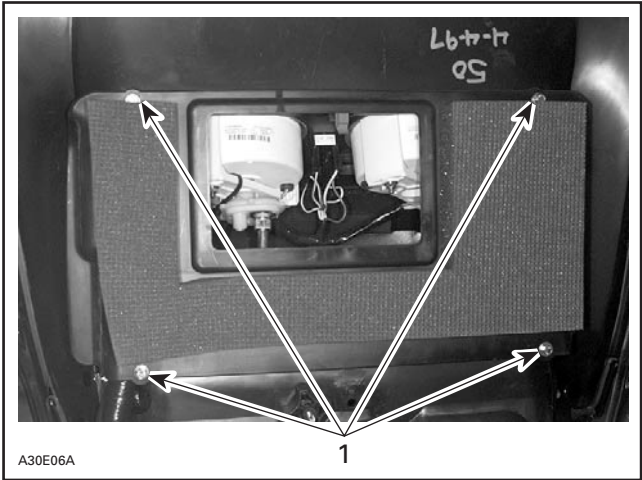
Turn bulb locking ring counterclockwise to remove it. Detach the bulb and replace. Properly reinstall parts including air filter.



1. Locking ring

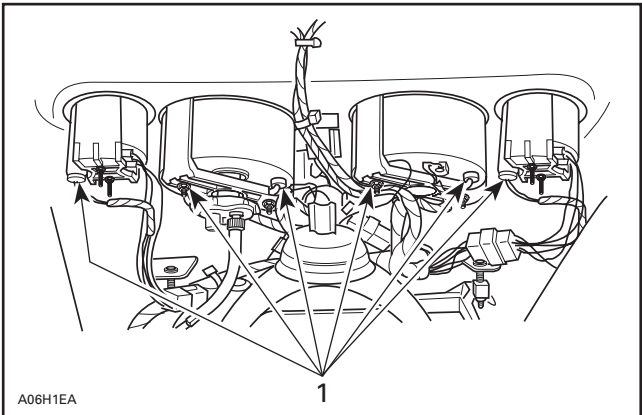
## Instrument(s)

Remove air duct from underneath hood.



1. Remove these screws

Bulb socket is always behind the instrument under a black rubber boot. Pull rubber boot and socket to expose bulb. Pull bulb out of socket.



TYPICAL

1. Instruments sockets

## Taillight

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

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## TOWING THE VEHICLE

First remove drive belt from vehicle to be towed.

A rope is not suitable to tow. Use a rigid bar and tow at very low speed.

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## TRANSPORTING THE VEHICLE

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

Tie vehicle to the transporting unit securely using suitable straps.

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## STORAGE AND PRESEASON PREPARATION

### **WARNING**

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

### **Storage**

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

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

**CAUTION:** Do not run engine during storage period.

### **Preseason Preparation**

Refer to an authorized SKI-DOO dealer.

**CAUTION:** Have carburetor(s) cleaned-up before restarting engine.

## TROUBLESHOOTING

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

**SYMPTOM: *Engine lacks acceleration or power.***

POSSIBLE CAUSES	WHAT TO DO
1. DESS has not read code of the cap. Engine can not exceed 3000 RPM.	DESS/RER pilot lamp blinks once every 1.5 seconds. Properly install tether cord.
2. DESS has read a different code than the one programmed. Engine can not exceed 3000 RPM.	DESS pilot lamp blinks rapidly (3 times per second). Install a cap (key) for which this snowmobile was programmed.
3. Fouled or defective spark plug.	Check item 5 of "ENGINE TURNS OVER BUT FAILS TO START".
4. Lack of fuel to engine.	Check item 4 of "ENGINE TURNS OVER BUT FAILS TO START".
5. Carburetor adjustments.	Contact an authorized SKI-DOO dealer.
6. Drive belt worn too thin.	If the drive belt width is less than minimum specification it will affect vehicle performance.
7. Drive and driven pulleys require servicing.	Contact an authorized SKI-DOO dealer.
8. Engine is overheating.	On liquid cooled engines, check coolant level, pressure cap and for air locks in cooling system. On fan cooled engines, check fan belt and its tension; clean cooling fins of engine; if overheating persists, contact an authorized SKI-DOO dealer.

<b>SYMPTOM: <i>Engine backfires.</i></b>	
<b>POSSIBLE CAUSES</b>	<b>WHAT TO DO</b>
1. DESS has not read code of the cap. Engine can not exceed 3000 RPM.	DESS/RER pilot lamp blinks once every 1.5 seconds. Properly install tether cord cap.
2. DESS has read a different code than the one programmed. Engine can not exceed 3000 RPM.	DESS pilot lamp blinks rapidly (3 times per second). Install a cap (key) for which this snowmobile was programmed.
3. Faulty spark plug (carbon accumulation) or wrong gap.	See item 5 of "ENGINE TURNS OVER BUT FAILS TO START".
4. Engine is running too hot.	See item 8 of "ENGINE LACKS ACCELERATION OR POWER".
5. Ignition timing is incorrect or there is an ignition system failure.	Contact an authorized SKI-DOO dealer.

<b>SYMPTOM: <i>Engine misfires.</i></b>	
<b>POSSIBLE CAUSES</b>	<b>WHAT TO DO</b>
1. DESS has not read code of the cap. Engine can not exceed 3000 RPM.	DESS/RER pilot lamp blinks once every 1.5 seconds. Properly install tether cord cap.
2. DESS has read a different code than the one programmed. Engine can not exceed 3000 RPM.	DESS pilot lamp blinks rapidly (3 times per second). Install a cap (key) for which this snowmobile was programmed.
3. Fouled/defective/ worn spark plugs or wrong gap.	Clean/verify spark plug and heat range. Replace as required.
4. Too much oil supplied to engine.	Improper oil pump adjustment, refer to an authorized SKI-DOO dealer.
5. Water in fuel.	Drain fuel system and refill with fresh fuel.



**SYMPTOM: Snowmobile cannot reach full speed.**

POSSIBLE CAUSE	WHAT TO DO
1. DESS has not read code of the cap. Engine can not exceed 3000 RPM.	DESS/RER pilot lamp blinks once every 1.5 seconds. Properly install tether cord cap.
2. DESS has read a different code than the one programmed. Engine can not exceed 3000 RPM.	DESS pilot lamp blinks rapidly (3 times per second). Install a cap (key) for which this snowmobile was programmed.
3. Drive belt.	Check item 6 of "ENGINE LACKS ACCELERATION OR POWER".
4. Incorrect track adjustment.	See MAINTENANCE and/or an authorized SKI-DOO dealer for proper alignment and tension adjustments.
5. Pulleys misaligned.	Contact an authorized SKI-DOO dealer.
6. Engine.	See items 3 to 8 of "ENGINE LACKS ACCELERATION OR POWER".

# SPECIFICATIONS

GENERAL		MACH Z TECH PLUS
<b>Engine</b>		
– Maximum Power Engine Speed	± 100 RPM	8300
<b>Drive Belt</b>		
– Number		417 300 066
– Width of a New Belt	mm (in)	35.1 (1.382)
– Wear Limit Width	mm (in)	32.7 (1.287)
<b>Spark Plug</b>		
– Type		NGK BR 9 ES
– Gap	± 0.05 mm (± .002 in)	0.45 (.018)
<b>Track</b>		
– Tension	mm (in)	30 - 35 (1-3/16 - 1-3/8) ①
– Alignment		②
<b>FLUIDS</b>		
<b>Fuel</b>		
– Type		Super Unleaded ③
– Tank Capacity	L (U.S. gal)	42.0 (11.1)
<b>Oil (engine)</b>		
– Type		④
– Tank Capacity	L (U.S. oz)	4.1 (139)
<b>Chaincase/Transmission Oil</b>		
– Type		⑤
– Capacity	mL (U.S. oz)	250 (8.5)
<b>Cooling System</b>		
– Type		⑥
– Capacity	L (U.S. oz)	5.0 (169)
<b>Brake System Fluid</b>		
– Type		DOT 4

① to ⑥ and N.A.: See below.

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

- ① Measure gap between slider shoe and bottom inside of track when exerting a downward pull of 7.3 kg (16 lbf) to the track.
- ② Equal distance between edges of track guides and slider shoes.
- ③ Super unleaded gasoline with a minimum octane number of 91 (R + M)/2.
- ④ BOMBARDIER Formula XP-S II synthetic injection oil (P/N 293 600 245 — 12 x 1 L) (or equivalent) OR BOMBARDIER injection oil (P/N 413 802 900 — 12 x 1 L) (or equivalent).
- ⑤ BOMBARDIER synthetic chaincase oil (P/N 413 803 300 — 12 x 355 mL).
- ⑥ Blend of 50/50 distilled water and ethylene-glycol (P/N 293 600 038 — 12 x 1 L). That blend will protect the system from freezing as low as -37°C (-35°F).

N.A.: Not applicable

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## CHANGE OF ADDRESS OR OWNERSHIP

If your address or owner has changed, be sure to fill out and mail the card provided on next page.

Such notification is likewise necessary for your own safety even after expiration of the original warranty, since Bombardier will be in a position to contact you if correction to your snowmobile becomes necessary.

### NOTICE TO ALL NEW OWNERS

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

### STOLEN UNITS

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

Please provide your name, address, phone number, vehicle serial number and date it was stolen.

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

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## **PRIVACY OBLIGATIONS/DISCLAIMER**

We wish to inform you that your coordinates will be used for safety and warranty purposes. Sometimes, we also use the coordinates of our clients to inform them about our products and to present them offers. Should you prefer not to receive information on our products, services and offers, please let us know by writing to the address below.

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

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



**BOMBARDIER**  
*RECREATIONAL PRODUCTS*



**CHANGE OF ADDRESS**

**CHANGE OF OWNERSHIP**

VEHICLE IDENTIFICATION NUMBER

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

OLD ADDRESS  
OR PREVIOUS OWNER:

NAME

NO

STREET

APT.

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

NEW ADDRESS  
OR NEW OWNER:

NAME

NO

STREET

APT.

CITY

STATE/PROVINCE

ZIP/POSTAL CODE

AFFIX  
PROPER  
POSTAGE

**BOMBARDIER**  
RECREATIONAL PRODUCTS

WARRANTY DEPARTMENT  
75 J.A. BOMBARDIER ST.  
SHERBROOKE (QUEBEC)  
CANADA J1L 1W3

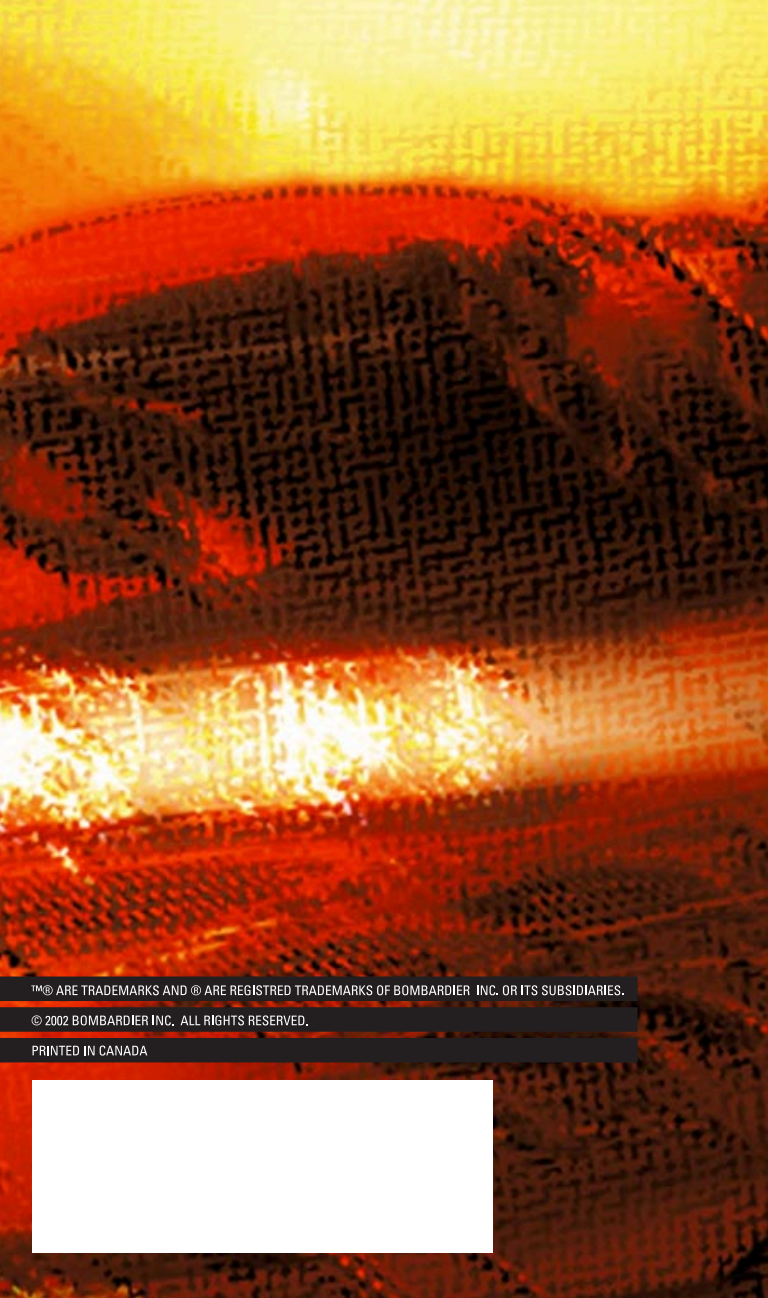




AFFIX  
PROPER  
POSTAGE

**BOMBARDIER**  
RECREATIONAL PRODUCTS

WARRANTY DEPARTMENT  
75 J.A. BOMBARDIER ST.  
SHERBROOKE (QUEBEC)  
CANADA J1L 1W3



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