

Model
V.I.N
Purchase Date
Warranty Expiry Date
To be completed by dealer at time of sale

	DEALER	IMPRINT A	REA	

AFTER SALES SERVICE BOMBARDIER INC. VALCOURT (QUEBEC) CANADA JOE 2LO



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ÉLAN®	SKANDIC*	TUNDRA*
FORMULA*		

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Safari L/LE/LCE/GLX

Skandic Skandic II 377 Skandic II 377 R

SAFETY WARNING

Disregarding any of the safety precautions and instructions contained in this *Operator's Guide* and the *Safety Handbook* could cause injury, including the possibility of death.

This Operator's Guide and the Safety Handbook should remain with the vehicle at the time of resale.

NOTICE

The Operator's Guide and the Snowmobiler's Safety Handbook have been prepared to acquaint the owner/operator or passenger of a new snowmobile with the various vehicle controls, maintenance and safe operating instructions. Each is indispensable for the proper use of the product, and should be kept with the vehicle at all times.

Should you have any questions pertaining to the warranty and its application, please consult the "Often Asked Question" section of this guide, or an authorized dealer.

This guide uses the following symbols.

WARNING : Identifies an instruction which, if not followed, could cause serious personal injuries including possibility of death.

CAUTION : Denotes an instruction which, if not followed, could severely damage vehicle components.

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

Although the mere reading of such information does not eliminate the hazard, your understanding of the information will promote its correct use. The information and components/system descriptions contained in this guide are correct at time of publication. Bombardier Inc. however, maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured.

Bombardier Inc. reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring obligation.

The illustrations 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.

Most specifications are given in both metric and customary units. Where precise accuracy is not required, some conversions are rounded to even numbers for easier use.

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

WARNING : The engine and components implemented 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.

WARNING : Maintenance procedures and tightening torques must be strictly adhered to, never attempt repairs unless the appropriate tools are available. CAUTION : Most components of this vehicle are built with parts dimensioned in the metric system. Most fasteners are metric and must not be replaced by customary fasteners or vice versa. Mismatched or incorrect fasteners could cause damage to the vehicle or possible personal injury.

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Observe the following precautions :

- Throttle mechanism should be checked for free movement before starting engine.
- Do not operate vehicle near snow making equipment.
- The snowmobile engine can be stopped by activating the emergency cut-out or tether switch or turning off the key.
- Clean and check operation of the headlight, taillight and brake light.
- Engine should be running only when belt guard and/or pulley guard is secured in place.
- Never run the engine without drive belt installed. Running an unloaded engine can prove to be dangerous.
- Never run the engine when the track is raised off the ground.
- It can be dangerous to run engine with the hood removed.
- Fuel is flammable and explosive under certain conditions. Always manipulate in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity. If fuel fumes are noticed while driving, the cause should be determined and corrected without delay.
- Maintain your vehicle in top mechanical condition at all times.
- Your snowmobile is not designed to be driven or operated on black top, bare earth, ice, hard pack or other abrasive surfaces. On such surfaces, abnormal and excessive wear of critical parts is inevitable.
- Your snowmobile is not designed to be operated on public streets, road 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 vehicle.

- ◆ Installation of other than standard equipment, including ski-spreaders, bumpers, pack racks, etc., could severely affect the stability and safety of your vehicle. Avoid adding on accessories that alter the basic vehicle configuration.
- ♦ Whenever the vehicle is parked outdoors, overnight or for a long period, it is suggested to protect it against the inclemency of the weather with a snowmobile cover.
- 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 for all lubrication and maintenance procedures.
- Liquid cooled models only : Since engine cooling is fully in effect only when the vehicle is in motion and driven on snow, it is not recommended that you allow the engine to idle for more than brief periods and/or you drive the vehicle on icy surfaces. Prolonged idling and/ or continuous driving on ice may cause engine damage.
- ◆ Liquid cooled models only: When removing coolant tank cap, first place a cloth over cap then turn cap to its first step to release pressure. Never drain or refill the cooling system when engine is hot.
- Some models are designed for the driver only. No provisions have been made for a passenger.
- Should removal of a locking device be required when undergoing repairs/disassembly, always replace by new ones. Tighten fasteners as specified in the applicable Shop Manual.

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THE 1992 SNOWMOBILE LIMITED WARRANTY

1 - PERIOD

BOMBARDIER INC. as manufacturer, warrants FROM THE DATE OF DELIVERY TO THE FIRST CONSUMER, every 1992 BOMBARDIER[®] snowmobile, sold as NEW AND UNUSED, and predelivered by an authorized BOMBARDIER[®] dealer for a period of :

- 12 consecutive months.
- Warranty coverage on all new snowmobiles delivered between June 1st and December 1st of a year will expire on December 1st of the following year.

2 - WHAT BOMBARDIER INC. WILL DO

BOMBARDIER INC. will repair and/or replace, at its option, components defective in material and/or workmanship (under normal use and service), with a genuine BOMBARDIER[®] component without charge for parts or labour, at any authorized BOMBARDIER[®] dealer during said warranty period.

3 - CONDITION TO HAVE WARRANTY WORK PERFORMED

Present to the servicing dealer, the hard copy of the BOMBARDIER® Warranty Registration card or proof of purchase received by the customer from the selling dealer at time of delivery.

4 - EXCLUSIONS - ARE NOT WARRANTED

- Normal wear on all items such as, but not limited to :
 - drive belts bulbs
 - slider shoes runners on skis
 - spark plugs
- Replacement parts and/or accessories which are not genuine BOMBARDIER[®] parts and/or accessories.
- Damage resulting from installation of parts other than genuine BOMBARDIER[®] parts.
- Damage caused by failure to provide proper maintenance as detailed in the *Operator's Guide*. The labour, parts and lubricants costs of all maintenance services, including tune-ups and adjustments will be charged to the owner.
- · Cold seizure and piston scuffing caused by insufficient warm-up.
- Vehicles designed and/or used for racing purposes.
- All optional accessories installed on the vehicle. (The normal warranty policy for parts and accessories, if any, applies).
- Damage resulting from accident, fire or other casualty, misuse, abuse or neglect.
- Damage resulting from operation of the snowmobile on surfaces other than snow.
- Damage resulting from modification to the snowmobile not approved in writing by BOMBARDIER INC.
- Damage incurred by track studs.
- Losses incurred by the snowmobile owner other than parts and labour, such as, but not limited to, transportation, towing, telephone calls, taxis, or any other incidental or consequential damage.

5 - BATTERY WARRANTY:

- 12 consecutive months (Prorated).
- 100% warranty coverage will start on the date the snowmobile was delivered and run to the following April 30th. The remainder of the 12-month period will be prorated as follows:
 - 50% from April 30th to December 1st.
 - 40% from December 1st to December 31st.
 - 30% from January 1st to end of warranty.

6 - EXPRESSED OR IMPLIED WARRANTIES

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. Where applicable this warranty is expressly in lieu of all other expressed or implied warranties of BOMBARDIER INC., its distributors and the selling dealer, including any warranty of merchantability or fitness for any particular purpose; otherwise the implied warranty is limited to the duration of this warranty. However, some states or provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply.

Neither the distributor, the selling dealer, nor any other person has been authorized to make any affirmation, representation or warranty other than those contained in this warranty, and if made, such affirmation, representation or warranty shall not be enforceable against BOMBARDIER INC. or any other person.

Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply.

BOMBARDIER INC. reserves the right to modify its warranty policy at any time, being understood that such modification will not alter the warranty conditions applicable to vehicles sold while the above warranty is in effect.

7 - CONSUMER ASSISTANCE

If a servicing problem or other difficulty occurs we suggest that you try to solve it with your selling dealer. Discuss your concern with the Service Manager or Owner. In most cases you will have your concern resolved at this level.

If you still have a service or product complaint, you may contact the Customer Service Department in Valcourt. Write or call to :

Bombardier Inc. Ski-Doo® Service Department Valcourt, Quebec Canada JOE 2L0

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OFTEN 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 dealer must register your snowmobile with Bombardier Inc. Make sure the card has been sent. All of this will allow you to :

a) have warranty work performed at any authorized Bombardier dealer in North America. Your registration card will provide the 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 vehicle (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 snow-mobile?

A: In this Operator's Guide provided with the vehicle 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 predelevered by an authorized 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 to ignition timing, carburation 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 machine out of oil, chain failure caused by a lack of lubrication, operating the machine 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 dealer for advice.

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

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

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

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

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 unit 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 dealer and Bombardier Inc. Normally, any problems that arise in connection with the sales transaction or the operation of your snowmobile will be handled by your 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 dealership management. If the problem already has been reviewed with the Sales Manager or Service Manager, contact the Dealer himself or the General Manager.

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

LISTING OF AREA DISTRIBUTORS

CANADIAN DISTRIBUTORS

PROVINCE OF QUEBEC

SERVICE OFFICE

BOMBARDIER INC. 1350 Nobel Street Boucherville, Quebec J4B 1A1 (514) 655-6121

PROVINCE OF ONTARIO

SERVICE OFFICE

BOMBARDIER INC. 230 Bavview Drive Barrie, Ontario L4N 5E9 (705) 728-8600

(514) 655-6121

SALES OFFICE

BOMBARDIER INC. 1350 Nobel street Boucherville, Quebec J4B 1A1

SALES OFFICE

BOMBARDIER INC. 230 Bayview Drive Barrie, Ontario L4N 5E9 (705) 728-8600

MARITIMES

SERVICE OFFICE

BOMBARDIER INC. P.O. Box 7060 Riverview, New Brunswick E1B 1V0 (506) 386-6117

SALES OFFICE

BOMBARDIER INC. 1350 Nobel Street Boucherville, Quebec J4B 1A1 (514) 655-6121

ALBERTA, BRITISH COLUMBIA, **MANITOBA, SASKATCHEWAN, YUKON**

SERVICE OFFICE

BROOKS EQUIPMENT LIMITED 1616 King Edward Street P.O. Box 985 Winnipeg, Manitoba R3C 2V8 (204) 633-7247

NEWFOUNDLAND, LABRADOR

SERVICE OFFICE

CHARLES R. BELL LIMITED Riverside Drive P.O. Box 1050 Corner Brook, Newfoundland A2H 6J3 (709) 634-3533

NORTH-WEST TERRITORIES, FRANKLIN DISTRICT & KEEWATIN

SERVICE OFFICE

THE NORTH WEST CO. INC. 77 Main Street Winnipeg, Manitoba R3C 2R1 (204) 934-1566

SALES OFFICE

BROOKS EQUIPMENT LIMITED 1616 King Edward Street P.O. Box 985 Winnipeg, Manitoba R3C 2V8 (204) 633-7247

SALES OFFICE

CHARLES R. BELL LIMITED Riverside Drive P.O. Box 1050 Corner Brook, Newfoundland A2H 6J3 (709) 634-3533

SALES OFFICE

THE NORTH WEST CO. INC. 77 Main Street Winnipeg, Manitoba R3C 2R1 (204) 934-1566



AMERICAN DISTRIBUTORS

EAST-CENTRAL, CENTRAL REGIONS

SERVICE OFFICE

BOMBARDIER CORPORATION 4418 Grand Avenue Duluth, MN 55807 U.S.A. (218) 628-2881

OR

BOMBARDIER CORPORATION 7575 Bombardier Court PO. Box 8035 Wausau, WI 54402-8035 U.S.A. (715) 842-8886

SALES OFFICE

BOMBARDIER CORPORATION 7575 Bombardier Court P.O. Box 8035 Wausau, WI 54402-8035 U.S.A. (715) 842-8886

WESTERN REGION

SERVICE OFFICE

BOMBARDIER CORPORATION P.O. Box 1572 Golden, CO 80402-1572 U.S.A. (303) 232-5284

SALES OFFICE

BOMBARDIER CORPORATION 7575 Bombardier Court P.O. Box 8035 Wausau, WI 55402-8035 U.S.A. (715) 842-8886

EASTERN REGION

SERVICE OFFICE

BOMBARDIER CORPORATION East Main Street Road Malone, NY 12953 U.S.A. (518) 483-4411 OR

BOMBARDIER INC. PO. Box 7060 Riverview NB E1B 1V0 CANADA (506) 386-6117

SALES OFFICE

BOMBARDIER CORPORATION East Main Street Road Malone, NY 12953 U.S.A. (518) 483-4411

ALASKA

SERVICE OFFICE

THE BRYANT CORPORATION NE. 190th & Woodinville Snohomish Road P.O. Box 389 Woodinville, Wa 98072 U.S.A. (206) 483-0110

SALES OFFICE

THE BRYANT CORPORATION NE. 190th & Woodinville Snohomish Road P.O. Box 389 Woodinville, Wa 98072 U.S.A. (206) 483-0110

HOW TO IDENTIFY YOUR SNOWMOBILE.

The main components of your snowmobile (engine, track 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.

NOTE : We strongly recommend that you take note of all the serial numbers on your vehicle and supply them to your insurance company.



CONTROLS/ INSTRUMENTS_



- A025 007 002
 - A) Throttle Lever
 - B) Brake Lever
 - C) Parking Brake Button
 - D) Gear Shift Lever (models with reverse gear only)
 - E) Tether Cut-Out Switch
 - F) Headlamp Dimmer Switch
 - G) Emergency Cut-Out Switch
 - H) Ignition Switch
 - 1) Rewind Starter Handle
 - J) Primer Button
 - K) Adjustable Steering Handle
 - L) Speedometer/Odometer
 - M) Trip Meter Reset Button (some models only)

- N) Tachometer (some models only)
- O) Electric Fuel Level Gauge (some models only)
- P) Fuel Level Indicator (some models only)
- Q) Temperature Gauge (liquid cooled models only)
- R) High Beam Pilot Lamp
- S) Injection Oil Level Pilot Lamp
- T) Heated Grip Switch (some models only)
- U) Fuel Tank Cap
- V) Hood Latches
- W) Snow Deflector

A) Throttle Lever

Located on the right side of handlebar. When compressed, it controls the engine speed and the engagement of the transmission. When released, engine speed returns automatically to idle.

B) Brake Lever

Located on the left side of handlebar. When compressed, 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.

C) Parking Brake Button

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

To engage mechanism, squeeze brake lever and maintain while pulling button with the other hand. There are two retaining notches on button lever; pull button until it locks on a notch then release brake lever.

To release mechanism, squeeze brake lever then fully push parking brake button.



D) Gear Shift Lever (models with reverse gear only)

A two-position lever. Up position : forward gear. Down position : reverse gear.



Shifting Procedure

Proceed as follows :

- Apply brake until vehicle completely stops.
- Strongly compress gear shift locking lever, located on right side of handlebar. Keep lever compressed.



- Select desired position using gear shift lever.
- Release gear shift locking lever.

WARNING : This snowmobile is capable of a fast reverse. On first outing, operator should become familiar with this operation by practicing on level ground. Always apply the brake before shifting and come to a complete stop then, change gear. This is particularly important while on a slope. Ensure the path behind is clear of obstacles or bystanders. Fast reverse, while turning, could result in loss of stability.

E) Tether Cut-out Switch

A pull switch located on right side of console. Attach tether cord to wrist or other convenient location then snap tether cut-out cap over receptacle before starting engine.

If emergency engine **shut off** is required, completely pull cap from safety switch and engine power will be automatically shut off.

NOTE : The cap must be installed on the safety switch at all times in order to operate the vehicle.

WARNING : If the switch is used in an emergency situation, the source of malfunction should be determined and corrected before restarting engine.

F) Headlamp Dimmer Switch

The dimmer switch, located on left side of handlebar, allows correct selection of headlamp beam. To obtain high or low beam simply flick switch.



G) Emergency Cut-Out Switch

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



The driver of this vehicle should familiarize himself with the function of this device by using it several times on first outing. Thereby being mentally prepared for emergency situations requiring its use.

WARNING : If the switch has been used in an emergency situation the source of malfunction should be determined and corrected before restarting engine.

H) Ignition Switch

The lights are automatically ON whenever the engine is running.

Manual Starting (some models only)



Key operated, two-position switch. To start the engine, first turn the key to ON position. To stop the engine, turn the key to OFF position.

Electric Starting (some models only)



Key, operated, three-position switch. To start engine, turn key to START position and hold.

CAUTION: Do not hold key at START position more than 30 seconds.

Release key immediately when engine has started. Key return to ON position as soon as it is released.

If engine does not start on first try, key must be turned fully back to OFF each time. To stop engine, turn key to OFF position.

CAUTION : Holding key in START position when engine has started could damage starter mechanism.

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

I) Rewind Starter Handle

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

J) Primer Button

Pull and push button two or three times to start a cold engine. Not necessary when engine is warm.

K) Adjustable Steering Handle

Steering handle height is adjustable, see an authorized dealer.

L) Speedometer/Odometer

The speedometer is linked directly to the drive axle. Direct-reading dial indicates the speed of the vehicle in kilometers or in miles per hour. Odometer records the total distance travelled in kilometers or in miles.

Trip Meter (some models only)

Speedometer features a trip meter that records a distance travelled in kilometers or in miles until it is reset. It can be used to record a fuel tank range or distance between two relays for instance.



M) Trip Meter Reset Button (some models only)

Trip meter reset button is located on left side of dashboard. To reset, turn button until all numbers read zero.

N) Tachometer (some models only)

The tachometer registers the impulses of magneto. Direct-reading dial indicates the number of revolutions per minute (RPM) of the engine.

O) Electric Fuel Level Gauge (some models only)

The electric fuel gauge is located in the dashboard and allows driver to observe the fuel level while riding the snowmobile.

P) Fuel Level Indicator (some models only)

Mounted on left side of fuel tank, it provides visual indication of fuel level in tank.

Q) Temperature Gauge (liquid cooled models only)

The gauge indicates engine coolant temperature. Normal operating temperature is from 50° to 100°C (120° - 212°F).



However, coolant temperature can vary according to driving conditions. If coolant temperature exceeds 100°C (212°F), reduce speed and run vehicle in loose snow or stop engine immediately.

WARNING : To remove coolant tank cap, place a cloth over the cap and unscrew it to the first stop to release the pressure. If this notice is disregarded loss of fluid and severe burns could occur.

R) High Beam Pilot Lamp (Blue)

Lights when headlamp is on high beam.

S) Injection Oil Level Pilot Lamp (Red)

Will light up when injection oil level is low. Check level and replenish as soon as possible.

CAUTION: Do not run engine out of oil. Serious engine damage will occur.

NOTE: Whenever brake lever is actuated, oil injection level pilot lamp should light up. If not replace lamp.

T) Heated Grip Switch (some models only)

The three-position toggle switch is located on right side of dashboard. Select the desired position to keep hands at a comfortable temperature.



U) Fuel Tank Cap

Unscrew to fill up tank then fully tighten.



WARNING : Never use an open flame to check fuel level.

V) Hood Latches

Pull down the latches to unlock the hood from its anchors.



NOTE : Always lift hood gently until stopped by retaining device.

WARNING: It is dangerous to run an engine with the hood opened, unfastened or removed.

W) Snow Deflector

Close snow deflector when riding in powdered snow.

Tool Kit

On fan cooled models, tool kit is located in engine compartment at front.

On liquid cooled models equipped with saddle bags, tool kit is located in left side saddle bag.

On liquid cooled models with storage compartment at rear of seat, tool kit is inside this compartment.

Tachometer Fuse (some models only)

The tachometer is protected by a 0.1 ampere rated fuse. Fuse holder is located under the hood beside the tachometer. If tachometer stops operating, check fuse condition and replace if necessary.

CAUTION : Do not use a higher rated fuse as this can cause severe damage to the tachometer.



Starting System Fuse (some models only)

Starting system is protected with a 30 ampere rated fuse. See following illustrations for fuse holder location. If starter does not operate, check fuse condition and replace if necessary.





Front Grab Handles

Located at the front of the bottom pan, these grab handles must be used whenever front of vehicle is lifted.





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

Storage Compartment (some models only)

Push button to open cover.



WARNING : Do not sit on cover at rear of seat while riding.



FUEL AND OIL

NOTE : During the break-in period, engine requires a richer fuel/oil mixture. Refer to BREAK-IN section.

Recommended Fuel

Use regular unleaded gasoline, available from most service stations or gasohol containing less than 10% of ethanol.

WARNING : Never top up the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and might overflow. Fuel is flammable and explosive under certain conditions. Always handle in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity. If fumes are noticed while driving, the cause should be determined and corrected without delay. Never add fuel while engine is running. Avoid skin contact with fuel when temperature is below freezing point. Always wipe off any fuel spillage from the vehicle.

CAUTION : Never experiment with other fuels or fuel ratios. The use of fuel containing methanol, or similar products including naphta is not recommended. The use of unrecommended fuel can result in vehicle performance deterioration and damage to critical parts in the fuel system and engine components.

Recommended Oil

Use BOMBARDIER Snowmobile Injection Oil (P/N 496 0133 00 - 1 liter) available from the authorized dealer. This type of oil will flow at temperatures as low as minus 40°C (-40°F).

If BOMBARDIER Snowmobile Injection Oil is unavailable, substitute with BLIZ-ZARD Oil (P/N 496 0135 00).

CAUTION : Never mix brands of two-cycle oil as serious chemical reaction can cause severe damage. Never use outboard or straight mineral oils.

Oil Injection System

Always maintain a sufficient amount of BOMBARDIER Snowmobile Injection Oil in the injection oil reservoir.





CAUTION : Check level and refill every time you refuel. Do not overfill. Wipe off any spillage. **NOTE**: For initial engine break-in, add 500 mL (18 oz) of BLIZZARD oil or the same quantity of BOMBAR-DIER Injection Oil to the first full filling of fuel tank.

BREAK-IN PERIOD

Engine

With Rotax[®] snowmobile engines, a break-in period is required before running the vehicle at full throttle. Engine manufacturer's recommendation is 10 to 15 operating hours. During this period, maximum throttle should not exceed 3/4. However, brief full acceleration and speed variations contribute to a good break-in. Continued wide open throttle accelerations, prolonged cruising speeds, and engine overheating are detrimental during the break-in period.

NOTE : To assure additional protection during the initial engine break-in, 500 mL (18 imp. oz) of BLIZ-ZARD Oil (P/N 496 0135 00) or the same quantity of BOMBARDIER Injection Oil (P/N 496 0133 00) should be added to fuel for the first full filling of fuel tank.

CAUTION : Remove and clean spark plugs after engine break-in.

Belt

A new drive belt requires a break-in period of 25 km (15 miles).

10 - Hour Inspection

As with any precision piece of mechanical equipment, we suggest that after the first 10 hours of operation or 30 days after the purchase, whichever comes first, your vehicle be checked by an authorized dealer. This inspection will give you the opportunity to discuss the unanswered questions you may have encountered during the first hours of operation.

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

10 - HOUR INSPECTION CHECKLIST	1
Engine timing	
Fan belt tension	
Spark plug condition (remove and clean)	
Carburetor adjustments	
Oil injection pump adjustment	
Engine head nuts	
Drive pulley screw (torque)	
Engine mount nuts	
Muffler attachment	
Chaincase/transmission oil level	
Drive chain tension	
Injection system oil level	
Coolant level	
Brake operation and lining condition	
Ski alignment (runners condition)	
Handlebar bolts (torque)	
Driven pulley preload	
Pulley alignment and drive belt condition	
Track condition, tension and alignment	
Suspension, torque rear axle screw to 48 N•m (35 lbf•ft)	
Lubrication (steering, suspension, drive axle, etc.)	
Electrical wiring (routing and connections)	
Tighten all loose bolts, nuts and linkage	
Operation of lighting system (HI/LO beam, brake light, etc.), test operation of emergency cut-out switch and tether cut-out switch	
Battery electrolyte level (electric start only)	

We recommend that you have your dealer sign this inspection.

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PRE-START CHECK

Check Points:

- ACTIVATE THE THROTTLE CONTROL LEVER SEVERAL TIMES to check that it operates easily and smoothly. It must return to idle position when released.
- Check that the skis and the track are not frozen to the ground or snow surface and that steering operates freely.
- Check that air filter is free of snow.
- Activate the brake control lever and make sure the brake fully applies before the brake control lever touches the handlebar grip.
- Check coolant level (on liquid cooled models). Liquid should be at cold level mark (engine cold) of coolant tank.



If additional coolant is necessary or if entire system has to be refilled, use a solution of three parts of antifreeze for two parts of water (60% antifreeze, 40% water).

NOTE : Always use ethylene-glycol antifreeze containing corrosion inhibitors specifically recommended for aluminum engines.

WARNING : If radiator cap has to be removed, place a cloth over the cap and unscrew it to the first step to release the pressure. Never drain or refill the cooling system when engine is hot. Loss of fluid and severe burns could occur if this notice is disregarded.

- Check injection oil level.
- Check fuel level.
- Check gear shift lever position (models with reverse gear only).
- Verify that the path ahead of the vehicle is clear of bystanders and obstacles.
- Clean and check operation of the headlight, taillight and brake light.

WARNING : Only start your snowmobile once all components are checked and functioning properly.

STARTING PROCEDURE

Test throttle control lever operation.

Check that the emergency cut-out switch is in the ON position.



Ensure the tether cut-out cap is in position and that the cord is attached to your clothing.

Activate the primer two or three times.

NOTE : Priming is not necessary when engine is warm. To prime, activate button until a pumping resistance is felt. This indicates that fuel has reached primer valve. From this point, pump two or three times to inject fuel in intake manifold. After priming, ensure that primer button is pushed all the way in to avoid fuel from draining.

CAUTION : Use of ether and/or other types of fluid as a starting aid can cause damage to engine components and is not recommended.

Manual Starting

Insert the key in the ignition switch and turn to ON position.

Grasp manual starter handle firmly and pull slowly until a resistance is felt then pull vigorously. Slowly release the rewind starter handle.



WARNING : Do not apply throttle while starting.

Electric Starting (some models only)

To start engine, follow either manual or electric starting procedure.

CAUTION : Never operate your snowmobile with the battery removed or disconnected. As it reduces voltage fluctuations, operating vehicle without battery might cause instrument or bulb failures.

Insert key in ignition switch.

Turn key clockwise until starter engages.

CAUTION : To avoid starter overheating, the cranking period should never exceed 30 seconds and a rest period should be observed between the cranking cycles to let starter cool down.

Release key immediately when engine has started. If engine does not start on first try, key must be turned fully back to OFF each time.

NOTE : If for some reason, the vehicle cannot be started electrically, place ignition key to ON position and start engine manually.

Before Riding

Check operation of the emergency cutout switch and tether switch. Restart engine.

WARNING : If engine does not shut-off when applying the emergency cut-out switch and/or when pulling the tether cut-out cap, stop the engine by turning OFF the ignition key. Do not operate the vehicle further, see an authorized dealer.

Allow the engine to warm before operating at full throttle.

NOTE : Liquid cooled models only : Engine is warm when operating temperature has been reached on temperature gauge. On fans cooled models without temperature gauge, let engine idle three to five minutes.

WARNING : This snowmobile is propelled by a revolving track which must be partially exposed for proper operation. Serious injuries may be caused by operator carelessness, resulting in hands, feet or clothing becoming entangled in the track.

Emergency Starting

Should the rewind starter rope fray and break, the engine can be started with the emergency starter rope supplied with the tool kit.

WARNING : Do not wind starting rope around your hand. Hold rope by the handle only.



WARNING : Do not start the vehicle by the drive pulley unless it is a true emergency situation. Have the vehicle repaired as soon as possible.

Attach emergency rope to any available handle and to the starter clip supplied in the tool box. Wind the rope tightl, around drive pulley so that when pulled, pulley will rotate counterclockwise.

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





Start engine as per usual manual starting.

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

LUBRICATION



Frequency

Routine maintenance is necessary for all mechanized products, and snowmobiles are no exception. A weekly vehicle inspection greatly contributes to the life span of the snowmobile. It is recommended that the suspension be lubricated monthly or every 40 hours of operation. The steering system needs to be lubricated once a year. If the vehicle is operated in wet snow or in severe conditions these items should be lubricated more frequently.

NOTE : When lubricating through grease fittings, slowly pump grease gun until grease appears at joints. Always use low temperature grease (P/N 413 7061 00).

WARNING : Only perform such procedures as detailed in this guide. It is recommended that dealer assistance be periodically obtained on other components/systems not covered in this guide. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures. Do not lubricate throttle and/or brake cables and housings.

Steering Mechanism

On models so equipped, remove protector plate to gain access to steering mechanism.





WARNING : Check tightness of fasteners and ball joints.

From underneath of bottom pan, lubricate both rocker arms of steering system.



Oil upper and lower steering column bushings.

Inspect ski leg boots for damage such as tears or cracks. If damaged, refer to an authorized dealer.

Once a year, ski leg ball joints and ski pivot should be lubricated.

- Remove boot locking rings.



- Slide boot to access ball joints.
- Apply small amount of grease on all ball joints.



- Properly secure boot.
- Remove ski and apply grease on ski pivot.
- Proceed the same way on the other side.

Slide Suspension

Lubricate the following parts at grease fitting until grease appears at joints. Use low temperature grease only.

Front upper cross shaft.



Front lower cross shaft.



Rear upper cross shaft.



Rear pivot arm shafts.



Brake Caliper

See an authorized dealer for proper lubrication of brake caliper ratchet wheel.

WARNING : Do not lubricate throttle and/or brake cables and housings.

Chaincase/Transmission Oil Level



To fill, remove filler plug from top of transmission. Refill as required using Bombardier chaincase oil (P/N 413 8019 00 - 250 mL).

NOTE : The chaincase oil capacity is approximately 250 mL (9 imp. oz) on models without reverse gear and 500 mL (18 imp. oz) on transmission with reverse gear.

Oil Injection System

Always maintain a sufficient amount of Bombardier Snowmobile Injection Oil in the injection oil reservoir.



CAUTION : Check level and refill every time you refuel. Do not overfill. Wipe off any spillage.

MAINTENANCE.

The following Maintenance Chart indicates regular servicing sheduled to be performed by you or an authorized dealer. If these services are performed as suggested, your snowmobile will provide many years of use.



WARNING : Only perform such procedures as detailed in this guide. It is recommended that dealer assistance be periodically obtained on other components/systems not covered in this guide. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.

SERVICE AND MAINTENANCE CHART	Weekly or every 240 km (150 m)	Monthly or every 800 km (500 m)	Once a year or every 3200 km (2000 m)	Refer to page
Drive belt condition				32
Brake condition				33
Brake adjustment				33
Drive chain tension				33
Spark plugs				34
Battery (electric starting only)				34
Suspension condition				
Suspension adjustment	(a	(as required)		
Track condition				
Track tension and alignment	(a	(as required)		
Drive and driven pulleys				
Steering mechanism and front suspension				42
Skis and runners				42
Steering adjustment				42
Exhaust system				42
Engine compartment				42
Air filter cleaning				43
Carburetor adjustment (cable inspection)				43
Injection oil filter condition				44
Oil injection pump adjustment				44
Cooling system (liquid cooled models only)				45
Fan belt (fan cooled models only)				45
Headlamp beam aiming				45
Wiring harnesses, cables and lines				46
General inspection				46

NOTE : The 10-hour inspection is a very important part of proper service and maintenance.

Drive Belt Removal and Installation

- 1. Remove ignition key.
- 2. Tilt the hood.
- 3. Pull out both retaining pins on ends of belt guard.



4. Lift and remove the belt guard.

WARNING : Engine should be operated only when belt guard is properly secured.

5. Unlock and raise driven pulley support.



NOTE: Removal and installation of drive belt is easier when driven pulley is held with parking brake on.

6. Open the driven pulley by twisting and pushing the sliding half. Hold in fully open position.



7. Slip the belt over the top edge of the sliding half, as shown.



8. Slip the belt out from the drive pulley and remove completely from vehicle.



WARNING : Never start or run engine without the drive belt installed. Running an unloaded engine is dangerous.

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

The maximum drive belt life span is achieved when the belt runs in the same direction. Always install drive belt so Bombardier name can be read when facing pulleys.





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

Drive Belt Condition

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

Check the drive belt width. Replace if less than 32 mm (1-1/4 in).

New Drive Belt

When installing a new drive belt, breakin period of 25 km (15 miles) is strongly recommended.
NOTE : Always store a spare belt in a manner to allow its natural shape to be maintained.

Brake Condition

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

WARNING : Brake pads must be replaced when fixed pad projects only by 1 mm (1/32 in) from caliper. Replacement must be performed by an authorized dealer.



Brake Adjustment

The brake mechanism is a self-adjusting type. If a quicker brake response is desired, strongly squeeze the brake lever several times, this will actuate the adjusting mechanism.



After the adjustment, brake should apply fully when lever is approximatively 13 mm (1/2 in) from handlebar grip. If not, do not tamper with the brake, contact an autorized dealer.



Drive Chain Tension

Run vehicle forward so that true freeplay can be taken. To adjust, remove the adjusting screw hair pin. Fully tighten adjusting screw **by hand** then back off only far enough for hair pin to engage in locking hole and install hair pin.



WARNING : If specified free-play is not reached with the tensioner screw fully tightened, consult an authorized dealer.

Spark Plugs

Disconnect the spark plug wires and remove the spark plugs.

Check the condition of the plugs.

- A brownish tip reflects ideal conditions (carburetor adjustments, spark plug heat range, etc., are correct).
- A black insulator tip indicates fouling caused by : carburetor idle speed mixture and/or high speed mixture too rich, incorrect oil injection pump adjustment wrong type of spark plug (heat range), or excessive idling.
- A light grey insulator tip indicates a lean mixture caused by : carburetor high speed mixture adjusted too lean, wrong spark plug heat range, incorrect oil injection pump adjustment, or a leaking seal or gasket.



CAUTION : If spark plug condition is not ideal, contact an authorized dealer.

Check spark plug gap using a wire feeler gauge, adjust as specified in ''specifications'' section.

Reinstall plugs and connect wires.

Battery (electric starting only)

Check electrolyte level weekly. Electrolyte must be at UPPER LEVEL line on battery casing.



If necessary add distilled water. Battery connections must also be free of corrosion. If cleaning is necessary remove corrosion using a stiff brush then clean with a solution of baking soda and water. Rinse and dry well.

CAUTION: Do not allow cleaning solution to enter battery. It will destroy the chemical properties of the electrolyte.

After reconnecting battery, coat battery terminals and connectors with silicone dielectric grease (P/N 413 7017 00) or petroleum jelly to prevent corrosion. Check that battery is well secured and that battery vent tube is not kinked or blocked.



WARNING : Vent tube must be free and open. If not, it will restrict ventilation and create a gas accumulation that could result in an explosion. Avoid skin contact with electrolyte. Gases given off by a battery being charged are highly explosive. Always charge in a well ventilated area. Keep battery away from cigarettes, open flames and sparks.

CAUTION : Prior to charging the battery, always remove it from the vehicle to prevent electrolyte spillage. Be careful not to ground positive terminal with the chassis. Always disconnect black negative cable first.

NOTE : Always keep battery fully charged. To charge, refer to battery in STORAGE section.

CAUTION : A poorly charged or a discharged battery will freeze and damage its elements and possibly damage its casing and parts surrounding battery.

Suspension Condition

Visually inspect all suspension components.

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 Adjustment

The front and rear suspensions are adjustable. **Front suspension** includes twoshock absorber/spring combination that have a three-position adjustment cam. See an authorized dealer for adjustment.

Front Suspension Adjustment

The preload of shock absorber spring can be adjusted as follows :

SPRING END / STOPPER DISTANCE	CONDITION
Smallest	Soft riding, smooth trail
Intermediate	Normal riding
Greatest	Hard surface

NOTE : Exhaust muffler or shock absorber may be removed to ease adjustment cam access. See an authorized dealer.

Rear suspension includes two torsional springs at **front portion** that have a four-position adjustment block, and adjustable stopper strap and finally two shock absorber/spring combination at **rear portion** that have a five-position adjustment cam.



The front suspension is adjustable for surface condition, vehicle handling and stability.

The front portion of rear suspension is adjustable for surface condition and steering effects.

The stopper strap is adjustable for vehicle weight transfer control.

The rear portion of rear suspension is adjustable for driver's weight.

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

Cam/block position	Soft> Stiff
Operator's Weight	Light
Riding speed	Low — High
Field condition	Flat ————————————————————————————————————

Slight suspension bottoming occuring under the worst riding conditions indicates a good choice of preload adjustment (cam/block position).

Optional different rate springs are available for your convenience. Ask an authorized dealer for more information.

Suspension is adjusted as outlined in the following lines.

Adjustment Block Tool

To adjust rear suspension adjustment blocks, use the special key supplied in tool kit.



Turning adjustment block moves edges of block supporting spring rod. The softest adjustment is reached when the supporting edge of block is the closest to pivot of block.



The stiffest adjustment is reached when the supporting edge of block is the farthest to pivot of block.



CAUTION : Always turn the left side adjustment block in a clockwise direction, the right side block in a counterclockwise direction. Left and right adjustment blocks must always be set at the same position.





Shock Absorber Spring Cam Tool

To adjust **rear** suspension shock absorber springs, use the special key supplied in tool kit.



Turning adjustment cam moves steps of cam over a stopper and controls cam height which in turn, change compressed length of spring. Spring preload can be increased or decreased by turning the cam.

The softest adjustment is reached when selected cam step is the closest to spring end.



The stiffest adjustment is reached when selected cam step is the farthest to spring end.



CAUTION : Always adjust left and right shock absorber spring cams at the same position.

Rear Suspension Adjustment

Adjustment Blocks

When the adjustment blocks are set at the softest adjustment, more vehicle weight is distributed to the skis thus giving a more positive steering. Track lead angle will be reduced in this position.

Steering stiffness can be reduced by setting adjustment blocks at their stiffest adjustment.

Shock Absorber Spring Cam

The preload of shock absorber springs can be adjusted as follows :

SPRING END / STOPPER	DRIVER'S WEIGHT kg (lb)	
DISTANCE	FROM	UP TO
Smallest	—	68 (150)
Intermediate	68 (150)	82 (180)
Greatest	82 (180)	_

Stopper Strap

The function of the suspension stopper strap is to control the transfer of vehicle weight during acceleration and to control track lead angle.

The longer the belt, the more the weight will be transferred to the track to provide a better traction. The shorter the belt, the lesser the weight transferred to the track, thus maintaining a more positive direction.

The longer the belt, the greater will be the track lead angle. A shorter belt will reduce track lead angle which may help when negociating a particular snow condition. Adjusting holes on the stopper strap allow to adjust it according to driver's requirements, field and/or snow conditions.





WARNING: Always torque the nut to 10 N•m (89 lbf•in).

Deep Snow Operation

When operating the vehicle in deep snow, it may be necessary to vary position of adjustment blocks, shock absorber spring cams, stopper strap and / or driver's 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.

Track Condition

Lift the rear of the vehicle and support it off the ground. 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 dealer.

WARNING : Do not operate a snowmobile with a cut, torn or damaged track.

Track Tension and Alignment

Tension

Lift the rear of vehicle and support with a mechanical stand.

Allow the slide to extend normally and check the gap half-way along slider shoe. The gap should be 40 to 50 mm (1-9/16 to 2 in) between the slider shoe and the bottom inside of the track when applying a downward pull of 7.3 kg (16 lb). The gap should be measured close to suspension center idler wheel.

NOTE : A belt tension tester (P/N 414 3482 00) may be used to measure deflection as well as force applied.





If the track tension is too loose, the track will have a tendency to thump.

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

If adjustment is necessary : loosen the rear idler wheel retaining screws and the adjusting screw lock nut, then loosen or tighten the adjusting screw located on the inner side of the rear idler wheels. If correct tension is unattainable, contact an authorized dealer.



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

Alignment

Start the engine and accelerate slightly so that track turns **slowly**. Check that the track is well centered (equal distance on both sides between edges of track guides and slider shoes).



WARNING : Before checking track alignment, ensure that the track is free of all particles which could be thrown out while it is rotating. Keep hands, tools, feet and clothing clear of track. Ensure no one is standing in close proximity to the vehicle.

To correct, **stop the engine**, loosen the rear idler wheels retaining screws then loosen the lock nuts and tighten the adjusting bolt on side where the slider shoe is the farthest from the track insert guides.



Tighten lock nuts and the idler wheel retaining screws.



Restart engine, rotate track slowly and recheck alignment.

Drive and Driven Pulleys

These are complex mechanisms which operate at high rotational speeds. Each pulley is dynamically balanced at the factory. Any tampering by the owner may disrupt this precision balancing and create an unstable condition.

Pulleys are factory-adjusted to provide the best performance under most riding conditions. However certain conditions, such as deep snow, high altitude, pulling a load, etc., may require different adjustments. Contact an authorized dealer for adjustment.

WARNING : The drive and driven pulleys must be inspected and cleaned by an authorized dealer at least annually.

Steering Mechanism and Front Suspension

Inspect the steering mechanism and front suspension.



WARNING : Tighten all fasteners.

Skis and Runners

Check the condition of the skis and the ski runners. If worn, contact an authorized dealer.

WARNING : Excessively worn skis and/or ski runners will hinder proper vehicle control.

Steering Adjustment

Skis should have a toe out of 3 mm (1/8 in).

To check, measure the distance between each ski runner at the front and rear. The front distance should be 3 mm (1/8) in) more than the rear when the handle bar is horizontal.

If adjustment is necessary, refer to an authorized dealer.

Exhaust System

Replace any components which have developed cracks or holes. Ensure muffler is properly secured in its mount and the ends of retaining springs have not been over-stretched. The tail pipe of the muffler should be centered with the exit hole in the bottom pan.

CAUTION : Do not operate vehicle with muffler disconnected : serious engine damage will occur.

Engine Compartment

Keep clean of grass, twigs, clothes, etc. These are combustible under certain conditions.

Air Filter

Leaving the vehicle uncovered during a snowfall or riding in deep powder snow may block air filter.

Lift hood and remove air filter from air intake silencer.



To clean the filter, shake the snow out of it then, dry it out.

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

CAUTION : These vehicles have been calibrated with the filter installed. Operating the vehicle without it may cause engine damage.

Carburetor Adjustment

CAUTION : Never operate your snowmobile with the air intake silencer disconnected. Serious engine damage will occur if this notice is disregarded. On twin-carburetor models, make sure both carburetors start to operate simultaneously.



A) Air Screw Adjustment

Slowly close the **air** screw (until a slight seating resistance is felt) then unscrew as per specified in "specifications" section.

B) Idle Speed Adjustment

Turn **idle speed** screw clockwise until it contacts the throttle slide then continue turning two additional turns. This will provide a preliminary idle speed setting. Start engine and allow it to warm up. Adjust idle speed to 1800-2000 RPM by turning the idle speed screw clockwise or counterclockwise.

CAUTION : Severe engine damage can occur if idle speed is unattainable. Contact your authorized dealer.

High Altitude Kit

Snowmobiles used in high altitude areas (1200 m (4000 ft) and up) are subjected to lose power as temperature, elevation and snow condition are different.

The carburetor and power train have to be recalibrated to meet those particular requirements. See an authorized dealer for high altitude kit installation. CAUTION : Do not change original jetting if vehicle is used below 1200 m (4000 ft).

Oil Injection System

Injection Oil Filter Condition

Inspect oil filter at least once a month. Insure that filter is not obstructed by foreign particles; if so, see an authorized dealer.

LIQUID COOLED MODELS



Oil filter Oil filter Oil filter Oil filter Oil filter

FAN COOLED MODELS

CAUTION : An obstructed injection oil filter will cause oil starvation resulting in serious engine damage.

NOTE : After a storage period, it is **important** that a dealer replace the injection oil filter, that he verifies the oil flow of the injection pump and adjust it.

Injection Pump Adjustment

Proper oil injection pump adjustment is critical, any delay in the opening of the pump can result in serious engine damage.

CAUTION : The carburetor must be adjusted before adjusting the oil injection pump. Make sure idle speed is 1800-2000 RPM.

To check adjustment, eliminate the throttle cable free-play by pressing the throttle lever until a slight resistance is felt then hold in place. The marks on the pump casting and lever must align perfectly. If not, contact an authorized dealer.



Cooling System (liquid cooled models only)

Check condition of hoses and tightness of clamps.

NOTE: If coolant temperature rises above recommended range of 50 to 100°C (120 to 212°F), hose off grime from the heat exchanger (underneath the frame above the track).

If necessary contact an authorized dealer.

Fan Belt (fan cooled models only)

Inspect belt for cracks, uneven wear, etc. Check fan belt tension, 9.5 mm (3/8 in) deflection should exist.



If belt seems damaged or if deflection is incorrect, contact an authorized dealer immediately.

Headlamp Beam Aiming

To adjust, remove windshield. Turn adjusting screw to obtain desired beam position. Reinstall windshield.



Bulb Replacement



WARNING : Always check light operation after bulb replacement.

Headlight

If the headlight bulb is burnt, tilt hood, unplug the connector from the headlight. Remove the rubber boot and unfasten bulb retainer ring. Detach the bulb and replace. Properly reinstall parts.



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

Instrument(s)

Bulb socket is always behind the instrument under a black rubber boot. Pull rubber boot and socket to expose bulb. To release bulb, push bulb and at the same time, rotate bulb counterclockwise.



Taillight

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

Wiring Harnesses, Cables and Lines

WARNING : Ensure each routing is well secured with proper fastening device (locking tie, clip, grommet, etc.) away from hot or rotating components.

General Inspection

Check electrical wiring and components, retighten loose connections. Check for stripped wires or damaged insulation. Thoroughly inspect the vehicle and tighten loose bolts, nuts and linkage. Inspect skis and ski runners for wear.

STORAGE

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

WARNING : Only perform such procedures as detailed in this guide. It is recommended that dealer assistance be periodically obtained on other components/systems not covered in this guide. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.

Track

Lift rear of vehicle until track is clear of the ground and support with a brace or trestle.

NOTE : Do not release track ten-

Controls

Lubricate the steering mechanism. Inspect all components for tightness. Oil moving joints of the brake mechanism.

WARNING : Do not lubricate the throttle and/or brake cables and housings. Avoid getting oil on the brake pads.

Coat all electrical connections and switches with silicone dielectric grease (P/N 413 7017 00). If unavailable, use petroleum jelly.

Chaincase

Drain the chaincase then refill to proper level, using fresh chaincase oil (P/N 413 8019 00 - 250 mL (9 oz)). To drain, remove the chaincase cover. Models with a reverse gear have a drain plug.

NOTE : Chaincase oil capacity is about 500 mL (17 oz) on models equipped with a reverse gear and 250 mL (9 oz) on models without such a reverse gear.

Engine

Engine internal parts must be lubricated to protect them from possible rust formation during the storage period.

To perform the storage procedures proceed as follows :

- 1. Start the engine and allow it to run at idle speed until the engine reaches its operating temperature.
- 2. Stop the engine.
- 3. To prevent fuel from draining, primer button should be pushed all the way in.
- 4. Disconnect the outlet primer hose from the primer valve (straight coupling).



- 5. Insert storage oil (P/N 496 0141 00) can nozzle into primer outlet hose.
- 6. Restart engine and run at idle speed.
- 7. Inject storage oil until the engine stalls or until a sufficient quantity of oil has entered the engine (approximately half a can).

- 8. With the engine stopped, remove the spark plugs and spray storage oil (P/N 496 0141 00) into each cylinder.
- 9. Crank slowly two or three revolutions to lubricate cylinders.
- 10. Reinstall the spark plugs and the outlet primer hose.

WARNING : This procedure must only be performed in a well ventilated area. Do not run engine during storage period.

Drive and Driven Pulleys

Remove belt guard and slip off drive belt.

Spray antirust product on pulleys.

Fuel Tank and Carburetor(s)

A fuel stabilizer, such as STA-BIL® (or equivalent), can be added in fuel tank to prevent fuel deterioration and avoid draining fuel system for storage. Follow manufacturer's instructions for proper use.

If above fuel stabilizer is not used, drain fuel system as described below.

Remove the cap and using a siphon, drain fuel tank.

WARNING : Fuel is flammable and explosive under certain conditions. Always handle in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity. Carburetor(s) must be dried out completely to prevent gum formation during the storage period.

CAUTION : Due to gum/varnish formation, severe damage can happen.

Once the fuel tank is emptied, remove the float chamber drain plug from carburetor(s) and drain carburetor(s).



Reinstall plug.

Battery (electric starting only)

1. Disconnect the battery cables and remove the battery retainer cover.

CAUTION : Be careful not to ground positive terminal with the chassis. Always disconnect black negative cable first.



- 2. Remove the battery vent tube from the vent hole.
- 3. Lift out the battery.
- Clean outside surface of battery with solution of baking soda and water. Remove all deposits from posts then rinse with clear tap water.

CAUTION : Do not allow cleaning solution to enter battery since it will destroy the electrolyte.

5. Check electrolyte level. Refill if necessary with distilled water. Fully charge battery at a maximum rate of 2.0 A.

CAUTION : Prior to charging the battery, always remove it from the vehicle to prevent electrolyte spillage.

WARNING : Gases given off by a battery being charged are highly explosive. Always charge in a well ventilated area. Keep battery away from cigarettes or open flames. Avoid skin contact with electrolyte.

- Coat electrical connections and switches with silicone dielectric grease (N/P 413 7017 00), if unavailable, use petroleum jelly.
- 7. Store unit in a cool, dry place.

NOTE : To prevent battery from discharging, store it on a wooden shelf away from moisture. A stored battery must be recharged at least every 40 days.

General Inspection

Grease or oil at all recommended lubrication points. Wipe off surplus.

Block air intake hole and exhaust system hole using clean cloths.

Remove any dirt or rust.

To clean the entire vehicle, use only flannel clothes or Kimtowels® wipers no. 58-380 from Kimberly-Clark.

To clean the entire vehicle, including metallic parts with a **thick** coat of grease, use "Endust" imported by Bristol Myers, available at hardware stores or supermarkets.

To clean the entire vehicle, including metallic parts with a **thin** coat of grease, use "Simple Green" from Sunshine Makers Inc., available at hardward stores or at automotive parts retailer.

To remove scratches on windshield or hood : Start with "Slip Streamer Motocylcle Windshield Heavy Duty Scratch Remover". Finish with "Slip Streamer Motorcycle Cleaner and Polish".

NOTE : The latest product may be use alone if only light scratches are noticeable.

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

Inspect the hood and repair any damage. Touch up all metal spots where paint has been scratched off. Spray all metal parts with antirust product. 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.

PRE-SEASON PREPARATION

We cannot overstress the importance of proper pre-season preparation. We have drawn up a chart which indicates service points to be performed by an authorized dealer. Make an appointment before first snow.

PRE-SEASON PREPARATION CHART	To be performed by d To be performed by o		Refer to page
Change spark plugs*		0	34
Check drive chain tension		0	33
Check chaincase/transmission oil level		0	29
Replace fuel and oil filter		•	-
Clean air filter		0	43
Remove cloths from air intake and exha	ust system holes	0	49
Refill fuel tank		0	20
Check track condition, tension and align	iment	0	40
Check suspension stopper strap condition	วท	0	40
Check and lubricate suspension	,	0	28
Check pulleys, verify components and c	lean	•	
Inspect drive belt guard and install		0	30
Check throttle cable for free operation		0	25
Check steering adjustment and ski runne	er condition	0	42
Check electrical wiring and connections		0	45
Inspect condition of starting rope		0	15
Check tightness of all bolts, nuts and lin	nks	0	_
Change coolant (liquid models only)		•	-
Inspect seals for possible cuts or leaks		0	-
Test battery, clean and install (electric s	tarting models only)	•	_
Inspect brake condition, operation and lubricate ratchet wheel		•	-
Refill injection oil tank		0	20
Adjust oil injection pump			-
Set engine timing		•	
Adjust carburetor(s)	··· ···	•	_

NOTE: Before installing new spark plugs, 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.

TROUBLESHOOTING

SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
Engine turns over but fails to start.	 Ignition switch, emergency cut-out switch or tether switch is in the OFF position. 	Place all switches in the RUN or ON position.
	 Mixture not rich enough to start cold engine. 	Check fuel tank level and check starting procedure, particularly use of the primer.
	 Flooded engine (spark plug wet when removed). 	Do not overprime. Remove wet spark plug, turn ignition switch to OFF and crank engine several times. Install clean dry spark plug. Start en- gine following usual starting proce- dure. If engine continues to flood, see an authorized dealer.
	 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 dealer.
	5. Spark plug/ignition (no spark).	Check that emergency cut-out switch is at the upper position ON and the tether cut-out switch cap is snapped over the receptacle.
		Check for fouled or defective spark plug. Disconnect spark plug wire, unscrew plug and remove from cyl- inder head. Reconnect wire and ground exposed plug on a metallic part of engine being careful to hold away from spark plug hole . Follow engine starting procedure and check for sparks. If no spark ap- pears, replace spark plug. If trouble persists, contact an authorized dealer.

SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
	6. Engine compression.	As the engine is pulled over with the rewind starter, "cycles" of resist- ance should be felt as piston goes past top dead center (each piston on twin-cylinder engines). If no pul- sating resistance is felt, it suggests a major loss of compression. Con- tact an authorized dealer.
Engine lacks acceleration or power.	1. Fouled or defective spark plug.	Check item 5 of "Engine turns over but fails to start."
	2. Lack of fuel to engine.	Check item 4 of "Engine turns over but fails to start."
	3. Carburetor adjustments.	Contact an authorized dealer.
	4. Drive belt worn too thin.	If the drive belt has lost more than 3 mm (1/8 in) of its original width, it will affect vehicle performance.
	 Drive and driven pulleys require servicing. 	Contact an authorized dealer.
	6. Engine is overheating.	On liquid cooled engines, check coolant level, pressure cap, ther- mostat and for air locks in cooling system.
		On fan cooled engines, check fan belt and its tension ; clean cooling fins of engine ; if heating persists, contact an authorized dealer.

SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
Engine backfires.	1. Faulty spark plug.	See item 5 of "Engine turns over but fails to start".
	2. Water in fuel.	Drain fuel system and refill with clean fuel.
	3. Engine is running too hot.	See item 6 of "Engine lacks acceler- ation or power".
	 Ignition timing is incorrect or there is an ignition system failure. 	Contact an authorized dealer.
Snowmobile cannot reach full speed.	1. Drive belt.	Check item 4 of "Engine lacks acceleration or power".
	2. Incorrect track adjustment.	See maintenance section for proper alignment and tension adjustments.
	3. Pulleys misaligned.	Contact an authorized dealer.
	4. Engine.	See items 1, 2, 3 and 6 of "Engine lacks acceleration or power".

TOOLS_

As standard equipment, each new snowmobile is supplied with basic tools such as screwdriver, wrenches, emergency starting rope, etc.

Standard Tools

	B C D
A024 001 002	
DESCRIPTION	PART NUMBERS
A. Screwdriver	414 6424 00
B. Socket 10/13 mm	414 6426 00
C. Open end wrench 10/13 mm	414 6428 00
D. Socket wrench handle	414 6427 00
E. Emergency starting rope	412 5001 00
F. Socket 21/26 mm	414 6425 00
G. Hexagonal wrench (adjuster blocks)	529 0024 00
H. Shock absorber spring collar adjustment key for rear suspension	529 0053 00
I. Emergency starting clip	420 8523 40

SPECIFICATIONS_____

	SAFARI L	SAFARI LE
ENGINE		
Туре	377	377
No. of cylinders	2	2
Bore	62 mm (2.441'')	62 mm (2.441'')
Stroke	61 mm (2.402'')	61 mm (2.402'')
Displacement	368.3 cm ³ (22.48 in ³)	368.3 cm ³ (22.48 in ³)
Compression ratio (corrected)	6.9:1 6700-7000	6.9:1 6700-7000
Shift speed (RPM)		
Carburetor type Carburetor adjustment :	Variable venturi, float type	vanable venturi, noat type
- air screw	1 tum	1 turn
- idle speed (RPM)	1800-2000	1800-2000
Fan belt deflection	9-10 mm (23/64''-25/64'')	
CHASSIS		
Overall length	277 cm (109'')	277 cm (109′′)
Overall width	103 cm (40.5'')	103 cm (40.5'')
Overall height	114 cm (45'')	114 cm (45′′)
Ski stance (center to center)	92.0 cm (36.2'')	92.0 cm (36.2'')
Ski alignment (toe out)	3 mm (1/8'')	3 mm (1/8'')
Weight	204 kg (450 lb)	213 kg (470 lb)
Bearing area	6896 cm ² (1069 in ²)	6896 cm ² (1069 in ²)
Ground pressure	2.90 kPa (.420 lb/in ²)	3.03 kPa (.439 lb/in ²)
BRAKE		
Туре	Disc, self-adjusting.	
Lining minimum thickness	Fixed pad must proje minimum fro	
Control lever adjustment	13 mm (1/2'') minir handlebar grip wh	

	SAFARI L	SAFARI LE	
POWER TRAIN	<u>,,, ,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,</u>		
Track :			
— width	41.9 cm (16-1/2'')	41.9 cm (16-1/2′′) 315 cm (124′′)	
— length	315 cm (124'')	315 cm (124)	
- tension	bottom inside of track w	40 mm (1-9/16 in) gap between slider shoe and bottom inside of track when exerting a downward pull of 7.3 kg (16 lb) to the track.	
alignment		en edges of track guides der shoes	
Standard gear ratio Drive belt :	20/44	20/44	
- number	414 6175 00	414 6175 00	
 maximum width 	35.0 mm (1-3/8'')	35.0 mm (1-3/8'')	
 minimum width 	32.0 mm (1-1/4'')	32.0 mm (1-1/4'')	
Chaincase oil	250 mL (9 oz)	250 mL (9 oz)	
ELECTRICAL			
Lighting system (output) Bulb :	12 V 160 W	12 V 160 W	
 headlamp 	60/60 W	60/60 W	
- tail/stop	8/26 W	8/26 W	
 speedometer 	5 W	5 W	
 tachometer 	N.A.	N.A.	
 electric fuel level gauge 	N.A.	N.A.	
Fuse :	N A	N A	
 tachometer starting system 	N.A. N.A.	N.A. 30 A	
Spark plug :	N.O.	50 A	
- type	NGK BR9ES	NGK BR9ES	
— gap	0.45 mm (0.018'')	0.45 mm (.018'')	
FUEL			
Gas type	Regular unleaded		
Fuel tank capacity : — SI	28.6 L	28.6 L	
– 51 – U.S.	28.6 L 7.6 gal	7.6 gal	
	U	U	
Injection oil	Bombardier snowmobil	le injection oil	
Tank capacity :	2.4.4	3.4	
– SI – U.S.	2.4 L 81 oz	2.4 L 81 oz	
- 0.3.	01 02	01 02	

N.A. : Not applicable

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	SAFARI LCE	SAFARI GLX
ENGINE		
Түре	467	467
No. of cylinders	2	2
Bore	69.5 mm (2.736'') 69.5 mm (2.736'')
Stroke	61.0 mm (2.402'') 61.0 mm (2.402'')
Displacement	462.8 cm ³ (28.24 ir	1 ³) 462.8 cm ³ (28.24 in ³)
Compression ratio (corrected)	7.25:1	7.25:1
Shift speed (RPM)	6700-7000	6700-7000
Carburetor type	Variable Venturi, flo	at type Variable Venturi, float type
Carburetor adjustment :		
- air screw	1-1/2 turns	1-1/2 turns
- idle speed (RPM)	1800-2000	1800-2000
Cooling system capacity :		
	4.2 L	4.2 L
– U.S.	142 oz	142 oz
Antifreeze/water mixture (% by volume)	60/40	60/40
Thermostat	43°C (110°F)	43°C (110°F)
Radiator pressure cap	90 kPa (13 lb/ir	
CHASSIS		
Lenght overall	277 cm (109'')	269 cm (106'')
Width overall	103 cm (40.6'')	103 cm (40.6'')
Height overall	114 cm (45'')	114 cm (45'')
Ski stance (center to center)	92.1 cm (36.3'')	92.1 cm (36.3'')
Weight	234 kg (516 lb)	253 kg (558 lb)
Bearing area	6896 cm ² (1069 in	²) 6896 cm ² (1069 in ²)
Ground pressure	3.33 kPa (.482 lb)	/in ²) 3.60 kPa (.521 lb/in ²)
BRAKE	ALL MODELS	
Туре	Disc, self-adjusting	
Lining minimum thickness	Fixed pad must project 1 mm (1/32 in) minimum from caliper.	
Control lever adjustment	13 mm (1/2 in) minimum distance from handlebar grip when fully applied.	

41.9 cm(16-1/2′′) 315 cm (124′′)	41.9 cm(16-1/2′′) 315 cm (124′′)
40 - 50 mm (1-9/16 - 2 in) gap between slider shoe and bottom inside of track when exerting a downward pull of 7.3 kg (16 lb) to the track.	
	n edges of track guides ler shoes
414 6338 00 35.0 mm (1-3/8'') 32.0 mm (1-1/4'') 250 mL (9 oz)	414 6338 00 35.0 mm (1-3/8'') 32.0 mm (1-1/4'') 500 mL (18 oz)
12 V 160 W	12 V 160 W
60/55 W H4 Hal. 8/26 W 5 W 5 W 2 W 2 W	60/55 W H4 Hal. 8/26 W 5 W 5 W 2 W 2 W
0.1 A	0.1 A
30 A	30 A
NGK BR9ES 0.45 mm (.018 in)	NGK BR9ES 0.4 mm (.018 in)
Regular unleaded	
36 L 9.5 gal	36 L 9.5 gal
Bombardier Snowmobile Injection Oil	
2.4 L	2.4 L 81 oz
	315 cm (124") 40 - 50 mm (1-9/16 - shoe and bottom inside a downward pull of 7.3 Equal distance betwee and slid 414 6338 00 35.0 mm (1-3/8") 32.0 mm (1-3/8") 12 V 160 W 60/55 W H4 Hal. 8/26 W 5 W 5 W 2 W 2 W 2 W 0.1 A 30 A NGK BR9ES 0.45 mm (.018 in) Regular unlead 36 L 9.5 gal Bombardier Snowmobile

Hal. : Halogen

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	SKANDIC II 377	SKANDIC II 377 R	
ENGINE			
Type No. of cylinders Bore Stroke Displacement Compression ratio (corrected) Shift speed (RPM) Carburetor type Carburetor adjustment : — air screw	377 2 62 mm (2.441'') 61 mm (2.402'') 368.3 cm ³ (22.48 in ³) 6.9:1 6700-7000 Variable venturi, float type 1 turn	377 2 62 mm (2.441") 61 mm (2.402") 368.3 cm ³ (22.48 in ³) 6.9:1 6700-7000 Variable venturi, float type 1 turn	
— idle speed (RPM) Fan belt deflection	1800-2000 9-10 mm (23/64''-25/64'')	1800-2000 9-10 mm (23/64''-25/64'')	
CHASSIS			
Overall length Overall width Overall height Ski stance (center to center) Ski alignment (toe out) Weight Bearing area Ground pressure	277 cm (109'') 103 cm (40.5'') 114 cm (45'') 92.0 cm (36.2'') 3 mm (1/8'') 218 kg (481 lb) 6896 cm ² (1069 in ²) 2.79 kPa (.404 lb/in ²)	297 cm (117'') 103 cm (40.5'') 114 cm (45'') 92.0 cm (36.2'') 3 mm (1/8'') 225 kg (496 lb) 7669 cm ² (1189 in ²) 2.87 kPa (.416 lb/in ²)	
BRAKE			
Туре	Disc, self-	Disc, self-adjusting.	
Lining minimum thickness	Fixed pad must projects 1 mm (1/32'') minimum from caliber.		
Control lever adjustment	13 mm (1/2") minimum distance from handlebar grip when fully applied.		

	SKANDIC II 377	SKANDIC II 377 R	
POWER TRAIN		··· /	
Track :			
— width	41.9 cm (16-1/2'')	41.9 cm (16-1/2'')	
— length	355 cm (139.8'')	355 cm (139.8'')	
— tension	40 - 50 mm (1-9/16 - 2 in) gap between slider shoe and bottom inside of track when exerting a downward pull of 7.3 kg (16 lb) to the track.		
— alignment	Equal distance between edges of track guides and slider shoes		
Standard gear ratio Drive belt :	20/44	20/44	
– number	414 6175 00	414 6175 00	
 maximum width 	35.0 mm (1-3/8'')	35.0 mm (1-3/8'')	
 minimum width 	32.0 mm (1-1/4'')	32.0 mm (1-1/4'')	
Chaincase oil	250 mL (9 oz)	500 mL (17 oz)	
ELECTRICAL	······································		
Lighting system (output) Bulb :	12 V 160 W	12 V 160 W	
– headlamp	60/60 W	60/60 W	
— tail/stop	8/26 W	8/26 W	
 speedometer 	5 W	5 W	
 tachometer 	N.A.	N.A.	
 electric fuel level gauge 	N.A.	N.A.	
Fuse :			
 tachometer starting system 	N.A. 30 A	N.A. N.A.	
Spark plug :	30 A	N.A.	
- type	NGK BR9ES	NGK BR9ES	
— gap	0.45 mm (0.018'')	0.45 mm (.018'')	
FUEL			
Gas type Fuel tank capacity :	Regular unleaded		
- SI	28.6 L	28.6 L	
U.S.	7.6 gal	7.6 gal	
Injection oil	Bombardier snowmobile injection oil		
Tank capacity :			
– SI – U.S.	2.4 L	2.4 L	
- 0.3.	81 oz	81 oz	

N.A. : Not applicable

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SI* METRIC INFORMATION GUIDE_____

	BASE UNITS					
DESCRIPTION length mass force liquid temperature pressure torque speed		UNIT meter kilogram Newton liter Celsius kilopascal Newton meter kilometer per hour	SYMBOL m kg N L °C kPa N•m km/h			
PREFIXES						
PREFIX kilo centi milli micro	SYMBOL k c m μ	MEANING one thousand one hundredth one thousandth one millionth	VALUE 1 000 0.01 0.001 0.000 001			
CONVERSION FACTORS						
TO CONVERT in in in ² in ³ ft oz lb lbf lbf•in lbf•ft lbf•ft PSI imp. oz imp. oz imp. gal imp. gal U.S. oz U.S. gal MPH Fahrenheit Celsius		TO † mm cm cm ² cm ³ m g kg N N N M M M M M M M M M M M M L U.S. oz mL U.S. gal L U.S. gal L Km/h Celsius Fahrenheit	MULTIPLY BY 25.4 2.54 6.45 16.39 0.3 28.35 0.45 4.4 0.11 1.36 12 6.89 0.96 28.41 1.2 4.55 29.57 3.79 1.61 (°F - 32) \div 1.8 (°C \times 1.8) + 32			

* The international system of units abbreviates SI in all languages.

† To obtain the inverse sequence, divide by the given factor. To convert ''mm'' to ''in'', divide by 25.4.