

**operator's
manual**

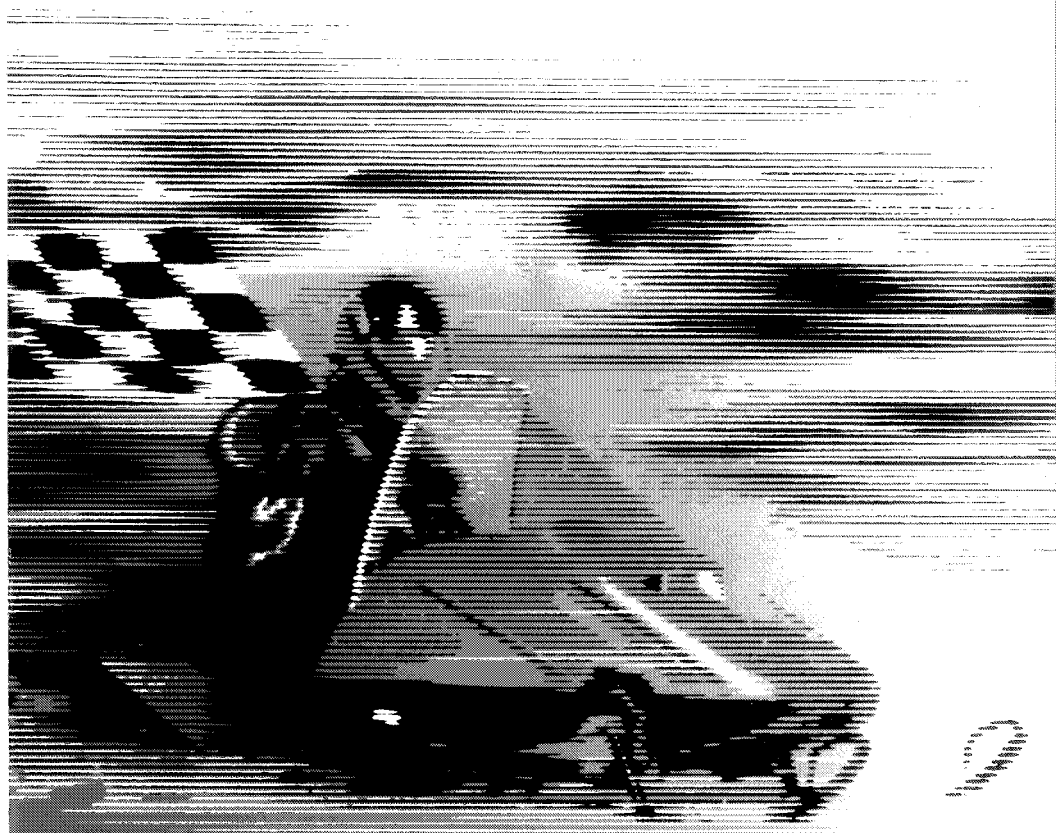
SAFARI*

377

377E

503

2nd Edition



1988

414 6240 00

model _____

V.I.N. _____

purchase date _____

warranty expiry date _____

To be completed by dealer at time of sale

DEALER IMPRINT AREA

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



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BLIZZARD®	FUTURA®	SKANDIC®
BOMBARDIER®	GRAND PRIX SPECIAL®	SKI-DOO®
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FOREWORD


The operator manual and the Snowmobile 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 manual, or your authorized dealer.

This manual 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 manual 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 engines and the corresponding components identified in this manual should not be utilized on product(s) other than those mentioned on the cover page of this manual.

 **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.

SAFETY MEASURES

Observe the following precautions:

- Throttle mechanism should be checked for free movement before starting engine.
- Do not operate vehicle near snow making equipment.
- 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.
- Gasoline 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 gasoline 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, 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.

- 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.
- The snowmobile engine can be stopped by activating the emergency cut-out switch, tether switch or by turning off the key.
- 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 manual. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.
- Clean and check operation of the headlight, taillight and brake light.
- 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.

PLEASE READ AND UNDERSTAND ALL WARNINGS AND CAUTIONS IN THIS MANUAL AND ON THE VEHICLE

THIS MANUAL SHOULD REMAIN WITH THE VEHICLE AT THE TIME OF RESALE

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THE 1988 SNOWMOBILE LIMITED WARRANTY

1 - PERIOD

BOMBARDIER® INC. as manufacturer, warrants FROM THE DATE OF DELIVERY TO THE FIRST CONSUMER, every 1988 BOMBARDIER snowmobile, sold as NEW AND UNUSED, and predelivered by an authorized BOMBARDIER dealer for a period of:

- 12 consecutive months.

2 - WHAT BOMBARDIER WILL DO

BOMBARDIER 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 - WARRANTY TRANSFER

This warranty is transferable to subsequent owner(s) for remainder of warranty period from original date of delivery.

5 - 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 Manual. The labour, parts and lubricants costs of all maintenance services, including tune-ups and adjustments will be charged to the owner.
- 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.

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- 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.

6 - BATTERY WARRANTY:

- 12 consecutive months. (Pro-rated)
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 pro-rated as follows:
 - 50% from April 30th to December 1st.
 - 40% from December 1st to December 31st.
 - 30% from January 1st to end of warranty.

7 - 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, 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 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.

8 - CONSUMER ASSISTANCE

If a servicing problem or other difficulty occurs, we suggest the following:

1. Try to solve the problem at the dealership with the Service Manager or Owner.
2. If this fails, contact your area distributor listed in the Operator's Manual.
3. Then if your grievance still remains unsolved, you may write to us:

Bombardier Inc.
Service Department
Recreational Products Division
Valcourt (Quebec), Canada JOE 2L0

September 1986
Bombardier Inc.
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: Your warranty is valid at any authorized dealer of the product. Your registration is the key element in providing the servicing dealer with the necessary data to complete warranty claim forms. This information is also used to notify owners in the event of a safety recall.

Q: Who should send the registration card to Bombardier Inc.?

A: The authorized dealer. However, it is important that the customer make sure that it has been sent. The company might contact you should your vehicle be recalled or in case of a particular warranty campaign.

Q: I bought my snowmobile in O'King County but I snowmobile in Washington County. Can an authorized dealer in Washington County accept to perform warranty work on my snowmobile?

A: Yes, any authorized dealer in North America can perform warranty repairs, providing the customer warranty registration card is presented.

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

A: In this Operator Manual provided with the vehicle at the time of delivery.

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

A: The warranty of the new snowmobile cannot be "Voided" or "Cancelled". However, if a particular failure is caused by operation or maintenance other than is shown in the Operator Manual, 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?

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 authorized 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 already been registered with the manufacturer. Note that the change of ownership card in this manual should be completed and sent to Bombardier Inc.

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 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. If you have a problem that has not been handled to your satisfaction through normal channels, we suggest that you discuss your problem with a member of dealership management. 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.

LISTING OF AREA DISTRIBUTORS

CANADIAN DISTRIBUTORS

Quebec Branch
1350, Nobel
Boucherville (Quebec) J4B 1A1
(514) 655-6121
Province of Quebec

Ontario Branch
230, Bayview Drive
Barrie (Ontario) L4N 4Y8
(705) 728-8600
Province of Ontario

Technical office
P.O. Box 7060
Riverview (New Brunswick) E1B 1V0
(506) 386-6117
Atlantic Region

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

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

HUDSON'S BAY CO. LTD.
165, Hymus Blvd
Pointe-Claire (Quebec) H9R 1G2
(514) 630-5279
**North-West Territories, Franklin District &
Keewatin**

AMERICAN DISTRIBUTORS

BOMBARDIER CORPORATION
All States (excluding Alaska)

SERVICE OFFICES
- East Main Street Road
Malone, New York 12953
(518) 483-4411

Technical office
(506) 386-6117
Eastern Region

- 4505, West Superior Street
P.O. Box 16106
Duluth, Minnesota 55816-0106
(218) 628-2881
East-Central, Central Region

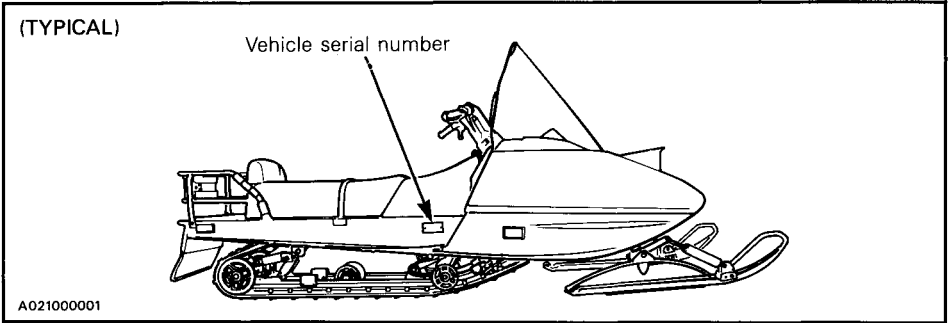
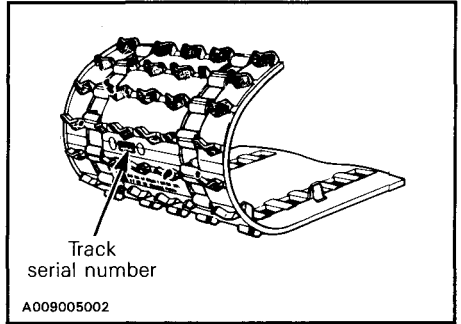
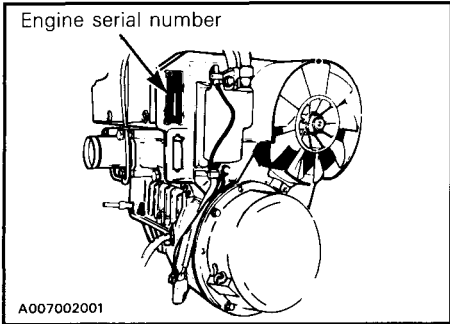
- P.O. Box 1569
Idaho Falls, Idaho 83403
(208) 529-9510
Western Region

NATIONAL SALES OFFICE
O'Hare Lake Plaza
2350, Devon Avenue
Suite 150
Des Plaines, Illinois 60018
(312) 298-9540

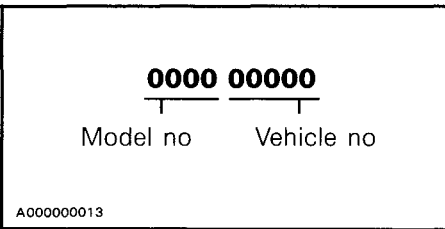
MILLER EQUIPMENT AND RECREATIONAL
CENTER
1049, Whitney Road
Anchorage, Alaska 99501
(907) 274-9513
Alaska

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 theft.



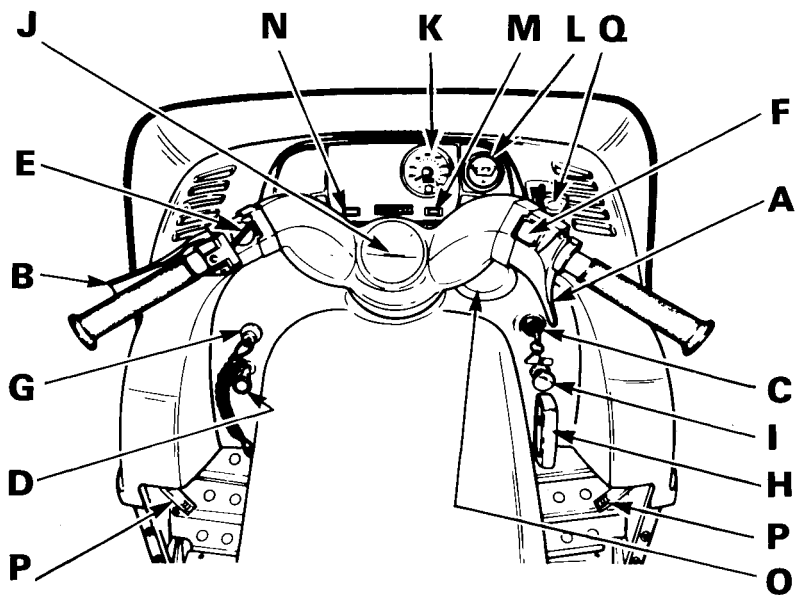
Vehicle serial number meaning:



1988 Safari 377/377E/503 have 3625, 3626 and 3627 as model number respectively.

NOTE: We strongly recommend that you take note of all the serial numbers on your vehicle and supply them to your insurance company. It will surely help in the event your snowmobile is stolen.

CONTROLS/ INSTRUMENTS



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- | | |
|--|---|
| A) Throttle Lever | K) Speedometer |
| B) Brake Lever | L) Electric Fuel Level Gauge
(optional on some models) |
| C) Ignition Switch | M) Injection Oil Level Pilot Lamp
(red) |
| D) Light Switch
(electric starting) | N) High Beam Pilot Lamp (blue) |
| E) Headlamp Dimmer Switch | O) Tank Cap, Fuel Gauge/Tank Cap
(some models) |
| F) Emergency Cut-out Switch | P) Hood Opening |
| G) Tether Cut-out Switch | Q) Retractable Headlamp Lever |
| H) Rewind Starter Handle | |
| I) Primer | |
| J) Adjustable Steering Handle | |

A) Throttle Lever

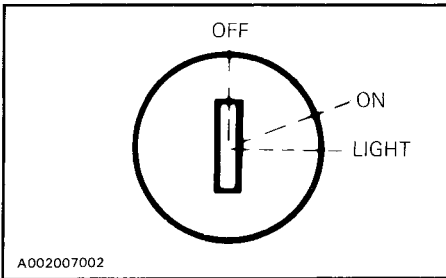
Located on the right side of handlebar. When compressed, it controls the engine speed and the engagement of the transmission. When released, engine speed returns automatically to idle.

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 proportionate to the pressure applied on the lever and to the type of terrain and its snow coverage.

C) Ignition Switch

Manual starting



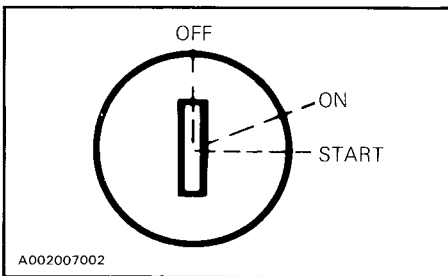
Key operated 3 position switch. To start engine, first turn key to ON position. To stop engine, turn key to OFF position.

To put lights on while engine is running, turn key to LIGHT position.

▼ **CAUTION:** Never start a vehicle equipped with halogen headlamp with the key placed on the LIGHT position. Otherwise headlamp bulb may burn as a voltage peak may be produced when the engine starts running.

Electric starting

(optional on some models)



Key operated, 3 position switch. To start engine, turn key to START position and hold. Return key to ON position immediately when engine has started. To stop engine, turn key to OFF position.

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

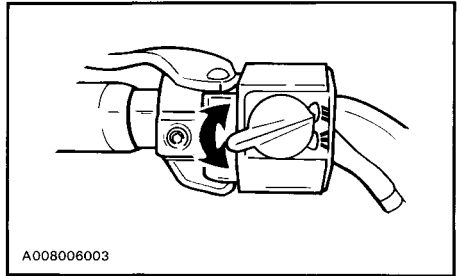
D) Light Switch

(Electric starting)

To illuminate headlamp and taillight, pull switch knob. (Ignition switch must be turned to ON position).

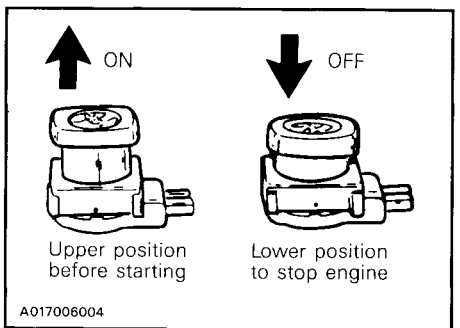
E) Headlamp Dimmer Switch

The dimmer switch allows correct selection of headlamp beam. To obtain high or low beam simply flick switch.



F) Emergency Cut-out Switch

To stop the engine in an emergency, push the button to the lower off position and simultaneously apply the brakes. 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:** For safety reasons, the emergency cut-out switch is easily accessible; be careful not to operate it inadvertently.

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

G) Tether Cut-out Switch

Attach tether cord to wrist or other convenient location of the driver's clothing. 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 an emergency situation the source of malfunction should be determined and corrected before restarting engine.

H) Rewind Starter Handle

Auto rewind type located on right hand side of vehicle. To engage mechanism, pull handle.

I) Primer

Pull and push button (2-3 times) to activate primer. The primer should always be used for cold engine starts. After engine is warm however, it is not necessary to use primer when starting.

J) Adjustable Steering Handle

Remove steering pad.

Loosen the four (4) retaining screws.

Adjust the handle to the desired position.

◆ **WARNING:** Do not adjust too high as the brake lever may contact the windshield when turning.

Lock the steering handle in place by tightening the four (4) retaining screws to 26 N•m (19 lbf•ft).

Reinstall steering pad.

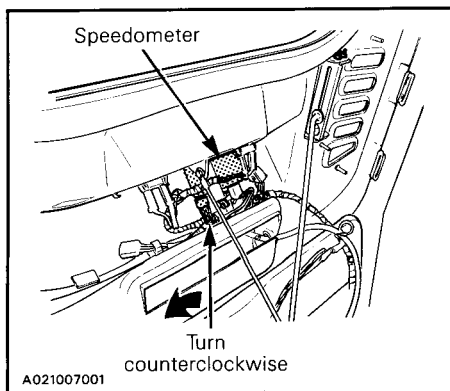
K) Speedometer

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

Trip meter button

(Safari 503 only)

The trip meter reset button is located on the speedometer housing. To reset, open hood and turn black knob counterclockwise until all numbers read zero.




L) Electric Fuel Level Gauge (optional on some models)

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

M) 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 until it is out of oil. Serious engine damage will occur.

Whenever brake lever is compressed, oil level pilot lamp should light up. If not, replace lamp.

N) High Beam Pilot Lamp (Blue)

Lights up when headlamp is on high beam.

O) Tank Cap


(Safari 377/377E)


Unscrew to fill up tank then fully tighten.

Fuel Gauge/Tank Cap

(Safari 503)


Unscrew fuel tank cap and withdraw dipstick to check fuel level.


 **WARNING:** Remove fuel tank cap slowly. Fuel may be under pressure and spray may cause fire and injuries.

 **WARNING:** Never use a lit match or open flame to check fuel level.

P) Hood Opening

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

 **NOTE:** Always lift hood gently up until stopped by restraining device.

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

Q) Retractable Headlamp Lever

Push lever forward to expose headlamp. To retract, pull lever backward.

Seat Belt

Located on middle of seat. Provide a grip for the rear passenger.

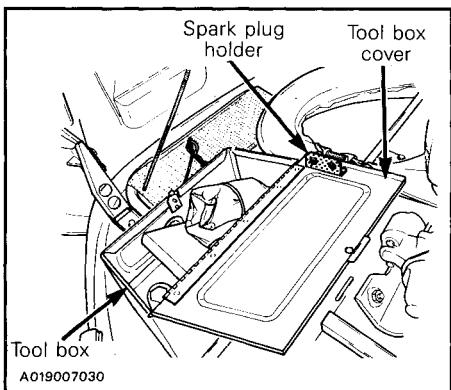
Tool Box

Located under the hood. To gain access, tilt hood. Ideal location for spare spark plugs, rope, first aid kit, flashlight, etc.

Spark Plug Holder

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

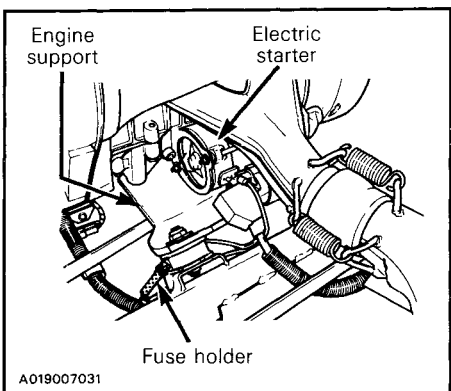
Fully tighten them into the holder.



Fuse Holder

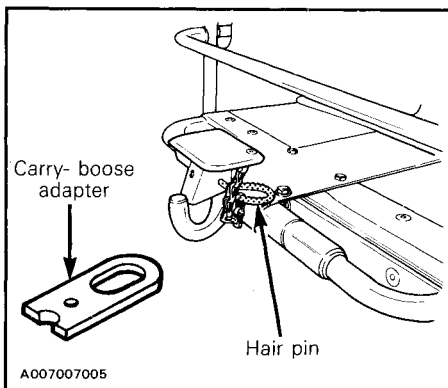
Starter (electric starting)

Starting system is protected with thirty (30) amperes rated fuse. Fuse holder is located near the starter. If starter does not operate, check fuse condition and if necessary replace.



Hitch

The hitch is fixed on the rear bumper. A hair pin is supplied to lock the hook.



◆ **WARNING:** When towing a sled or trailer, always ensure to lock the hook with the hair pin.

○ **NOTE:** For convenience, a carry-boose adapter is supplied in the tool box.

Trailers of sleds towed behind a snowmobile should always be loaded in a way to obtain the lowest possible center of gravity. Use a rigid tow bar when pulling a tow sled behind your snowmobile. When you are pulling passengers in a trailer or tow sled, use moderate speed and avoid rough terrain for their safety. Also, have all passengers get out of a towed vehicle and walk across all roads.


Accessories


Some optional accessories might be added to your vehicle such as speedometer, tachometer, hitch, electric starter, etc, if not standard on your vehicle. Ask your authorized dealer for more information.

BREAK-IN PERIOD

Engine

With Bombardier-Rotax snowmobile engine, a break-in period is required before running the vehicle at full throttle. Engine's manufacturer 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 lugging are detrimental during the break-in period.

 **NOTE:** To assure additional protection during the initial engine break-in, 500 ml (18 imp. oz) of BLIZZARD OIL (P/N 496 0135 00) or the same quantity of Bombardier Injection oil should be added to fuel for the **first** full fuel tank filling.

 **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 your 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	✓
Engine timing	
Fan belt tension	
Spark plugs condition: (Remove and clean)	
Carburetor adjustment	
Oil injection pump adjustment	
Engine head nuts	
Drive pulley screw (torque)	
Engine mount nuts	
Muffler attachment	
Chaincase oil level	
Injection system oil level	
Brake operation and lining condition	
Ski alignment (runner condition)	
Handlebar bolts, retorque to 26 N•m (19 lbf•ft)	
Pulley alignment and drive belt condition	
Track condition, tension and alignment	
Lubrication (steering, suspension, drive axle, etc.)	
Electrical wiring, 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 switch	
Battery electrolyte level (electric starting)	

We recommend that you have your dealer sign this inspection list.

Date of 10 hour inspection

Dealer signature

FUEL & OIL

Recommended Gasoline

Use **regular leaded** gasoline available from all service stations.

◆ **WARNING:** Remove fuel tank cap slowly. Fuel may be under pressure and spray may cause fire and injuries.

◆ **WARNING:** Gasoline 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.

▼ **CAUTION:** Never experiment with other fuels or fuel ratios. The use of gasoline containing alcohol such as methanol, ethanol (commonly called gasohol) or similar products including naphtha is not recommended. The use of gasoline containing alcohol can result in vehicle performance deterioration and damage to critical parts in the fuel system and engine components.

◆ **WARNING:** Never "top up" the gas tank before placing the vehicle in a warm area. At certain temperatures, gasoline will expand and overflow. Always wipe off any gasoline spillage from the snowmobile.

Recommended Oil

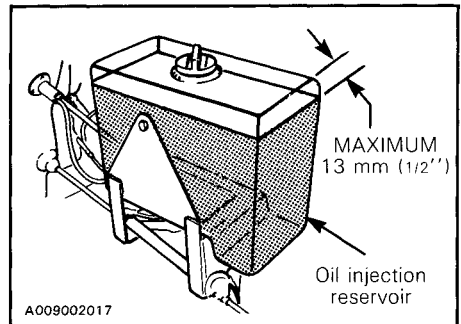
Use "Bombardier Snowmobile Injection Oil" (P/N 496 0133 00 - 1 liter) available from the authorized dealer. This type of oil will flow at temperatures as low as minus 40°C (-40°F).

If "Bombardier Snowmobile Injection Oil" is unavailable, substitute with BLIZZARD OIL (P/N 496 0135 00 - 500 ml).

▼ **CAUTION:** Never use outboard or straight mineral oils.

Oil Injection System

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



▼ **CAUTION:** Check level and refill every time you refuel. Do not overfill.

○ **NOTE:** To assure additional protection during the initial engine break-in, 500 ml (18 imp. oz) of BLIZZARD OIL (P/N 496 0135 00) or the same quantity of Bombardier Injection oil should be added to gas for the **first** full gas tank filling.

PRE-START CHECK

Check Points

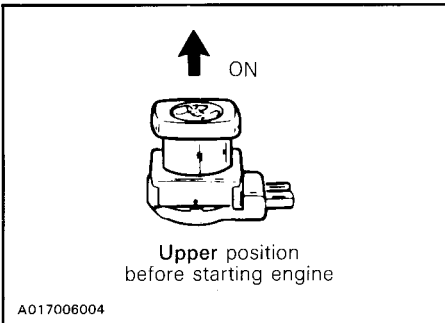
- ACTIVATE THE THROTTLE CONTROL LEVER SEVERAL TIMES to check that it operates easily and smoothly. The throttle control lever must return to idle position when released.
- Check that the skis and the track are not frozen to the ground or snow surface and that steering operates freely.
- Activate the brake control lever and make sure the brake fully applies before the brake control lever touches the handlebar grip.

- Check injection oil level.
- Check fuel level.
- 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 the clothing.

Activate the primer (2 or 3 times).

○ **NOTE:** The use of the primer is not necessary when the engine is warm.

Manual Starting

Insert the key in the ignition 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.

▼ **CAUTION:** Never start a vehicle equipped with halogen headlamp with the key placed on the LIGHT position. Otherwise headlamp bulb may burn as a voltage peak may be produced when the engine starts running.

Electric Starting

(optional on some models)

▼ **CAUTION:** Never operate the snowmobile with the battery removed or disconnected, since the battery reduces voltage fluctuations, operating vehicle without it might cause instrument or bulb failure.

Insert key in ignition switch.

Turn ignition 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.

◆ **WARNING:** Do not apply throttle while starting.

Before Riding

Check operation of the emergency cut-out switch and tether switch. Restart engine.

◆ **WARNING:** If engine does not shutoff 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 your authorized dealer.

Allow the engine to warm before operating at full throttle.

Emergency Starting

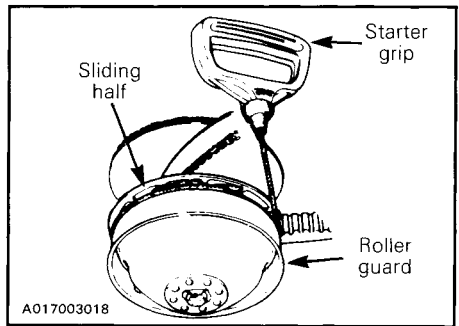
Should the rewind starter rope fray and break, the engine can be started with the emergency starter rope supplied with the tool kit.

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

Safari 377/377E

Attach emergency rope to any available handle. Remove the belt guard from the vehicle and wind the emergency rope tight around the drive pulley between the sliding half and the roller guard.

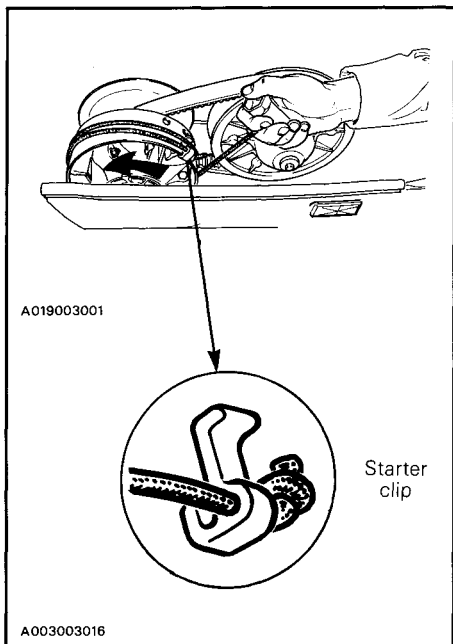
○ **NOTE:** The spark plug socket can be used as an emergency starter grip.



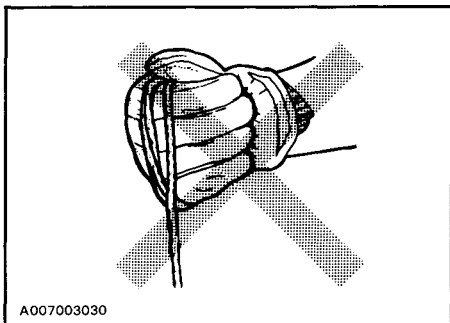
Safari 503

Attach emergency starting rope to any available handle and to the starter clip supplied in the tool box. Remove the belt guard from the vehicle and wind the rope tightly around drive pulley.

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



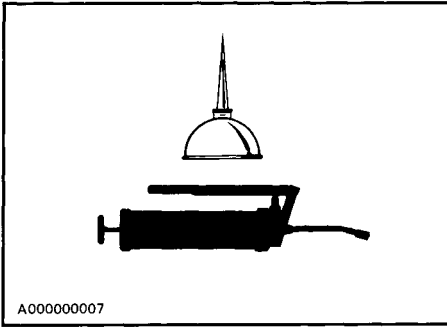
◆ **WARNING:** Do not wind starting rope around your hand. Hold rope by the handle only.



Start engine as per usual manual starting.

◆ **WARNING:** When starting the vehicle in an emergency situation by the drive pulley, do not reinstall the belt guard.

LUBRICATION



Steering Mechanism

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

Lubricate the ski legs and spring coupler bolts at grease fittings until new grease appears at joints. Coat spring slider cushion with grease.

Oil ball joints and steering column bushings.

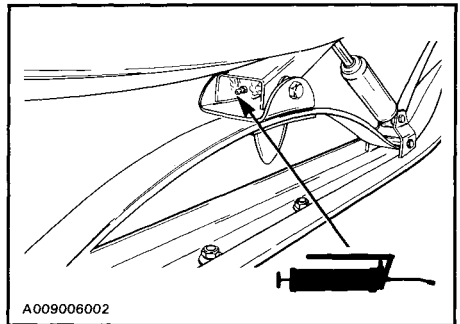
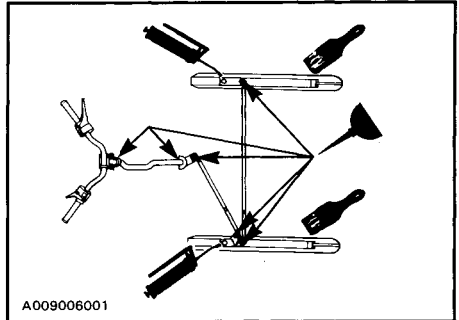
Frequency

Routine maintenance is necessary for all mechanized products, and the snowmobile is no exception. A weekly vehicle inspection contributes to the life span of the snowmobile.

It is recommended that the steering system and suspension be lubricated monthly or every 40 hours of operation. If the vehicle is operated in wet snow or in severe conditions these items should be lubricated more frequently.

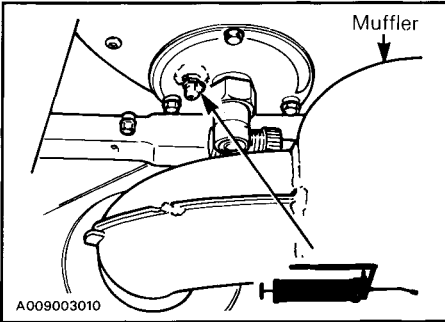
○ **NOTE:** When lubricating grease fittings, grease until grease appears at joints. Always use low temperature grease (P/N 413 7061 00).

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

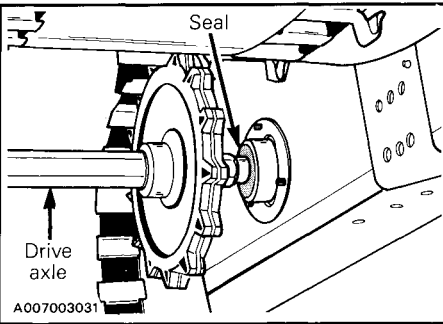


Drive Axle

Lubricate at grease fitting using low temperature grease.

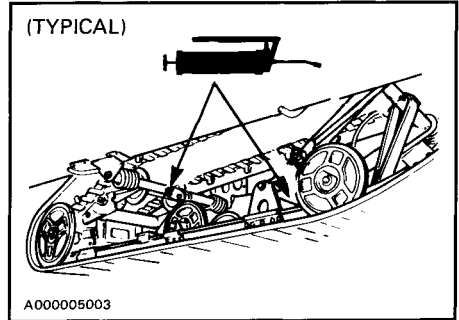


CAUTION: When lubricating the drive axle bearing, do not apply excessive grease as the seal will be pushed out of its housing. Check seal position with finger.



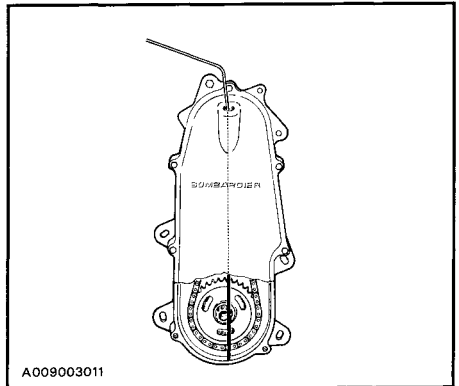
Slide Suspension

Lubricate front & rear arms at grease fittings until grease appears at joints. Use low temperature grease only.



Chaincase Oil Level

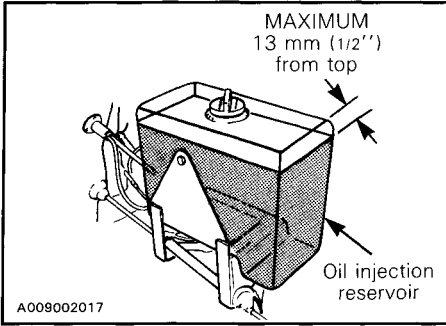
Using the spark plug socket, remove the filler cap then using a rigid wire as a "dipstick" check oil level. The oil level on the "dipstick" should be 50-65 mm (2" to 2 1/2"). Refill as required using Bombardier chaincase oil (P/N 413 8019 00 - 250 ml (9 oz)).



NOTE: The chaincase oil capacity is approximately 200 ml (7 oz).

Oil Injection System

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



▼ **CAUTION:** Check level and refill every time you refuel. Do not overfill.

Driven Pulley

Remove pulley guard and slip off drive belt. Open the driven pulley, (push and twist sliding half.)

Thoroughly clean the driven pulley shaft.

Apply a light film of low-temperature grease on the shaft. Always wipe off surplus.

○ **NOTE:** Activate the sliding half several times to distribute lubricant over full length of shaft. Be careful that lubricant does not get on inner halves of pulley.

MAINTENANCE

The following Maintenance Chart indicates regular servicing schedules to be performed by the owner or the servicing dealer. If these services are performed as suggested, the snowmobile will provide many years of use.

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

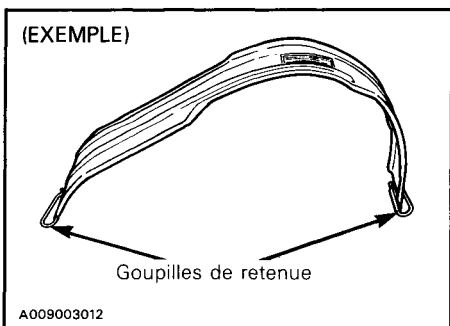
MAINTENANCE CHART	Weekly or every 240 km (150 mi)	Monthly or every 800 km (500 mi)	Once a year or every 3200 km (2000 mi)	Refer to page
Drive belt condition	■			26
Brake condition	■			27
Brake adjustment		■		27
Spark plugs		■		27
Battery (electric starting)	■			28
Suspension condition		■		28
Suspension stopper strap condition			■	28
Suspension adjustment	(as required)			29
Track condition		■		30
Track tension and alignment	(as required)			31
Drive pulley		■		32
Steering mechanism		■		34
Ski and runner wear	■			34
Steering adjustment		■		34
Muffler attachment		■		35
Engine head nuts			■	35
Engine mount nuts			■	35
Carburator adjustment			■	35
Injection oil filter condition		■		36
Oil injection pump adjustment			■	36
Fan belt			■	36
Headlamp beam aiming			■	37
General inspection		■		38

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

Dépose du garde-courroie

◆ **AVERTISSEMENT:** Ne pas faire tourner le moteur lorsque le garde-courroie n'est pas en place.

1. Basculer le capot.
2. Retirer les deux goupilles de retenue.

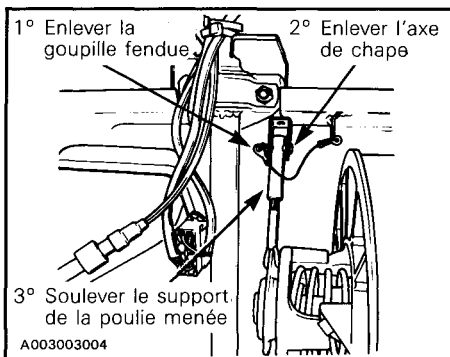


3. Soulever et déposer le garde-poulie.

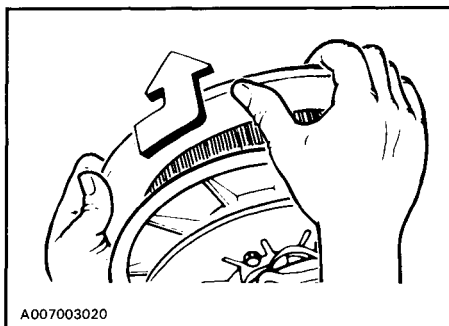
Dépose et installation de la courroie d'entraînement

◆ **AVERTISSEMENT:** Ne jamais faire démarrer le moteur lorsque la courroie d'entraînement n'est pas en place.

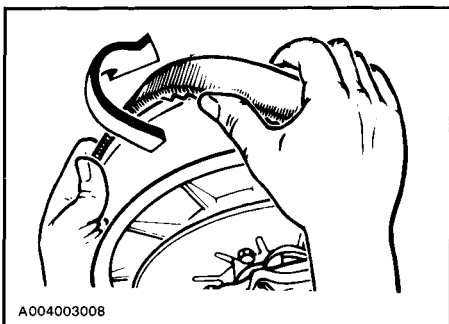
1. Déposer le garde-courroie.
2. Déverrouiller et soulever le support de la poulie menée.



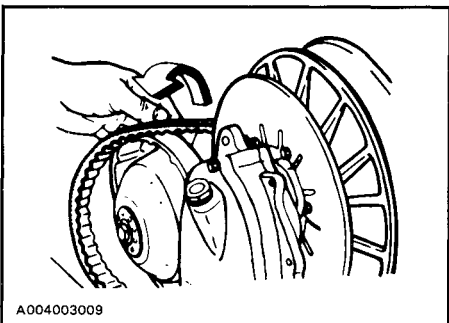
3. Ouvrir la poulie menée en tournant et en poussant la demi-poulie coulissante; la maintenir ouverte.



4. Faire glisser la courroie par-dessus le rebord supérieur de la demi-poulie coulissante.

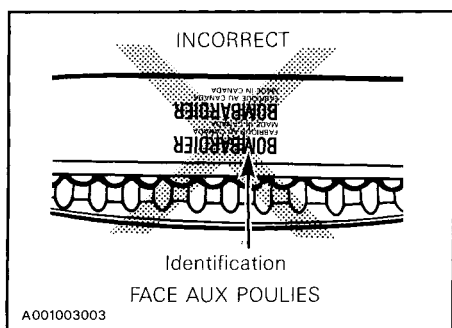
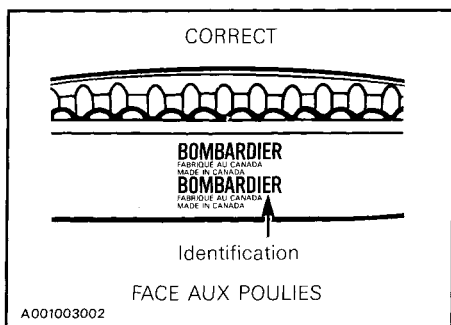


5. Faire glisser la courroie par-dessus la poulie motrice et la retirer du véhicule.



Inverser les opérations pour la réinstallation en portant une attention aux points suivants:

Pour une durée maximale de la courroie d'entraînement, s'assurer qu'elle tourne dans le sens approprié. Installer celle-ci de sorte que l'information soit lisible en se tenant face aux poulies.



▼ **ATTENTION:** Ne pas forcer la courroie ni utiliser d'outils pour la passer par-dessus les poulies lors de l'installation, sinon ses cordes pourraient se couper ou se briser.

État de la courroie d'entraînement

Examiner la courroie. S'assurer qu'elle n'est pas fendillée, effilée ou usée de façon anormale (usure inégale, usure d'un seul côté, crampons manquants, matériau fendillé). L'usure anormale de la courroie peut provenir d'un mauvais alignement des poulies, d'un régime excessif alors que la chenille est gelée, de démarrages rapides sans réchauffement préalable, d'une poulie couverte d'ébarbures, d'huile sur la courroie ou d'une courroie de rechange tordue. Au besoin, voir le concessionnaire.

Vérifier la largeur de la courroie. Remplacer la courroie si sa largeur est inférieure à 32 mm (1 1/4 ").

Courroie d'entraînement neuve

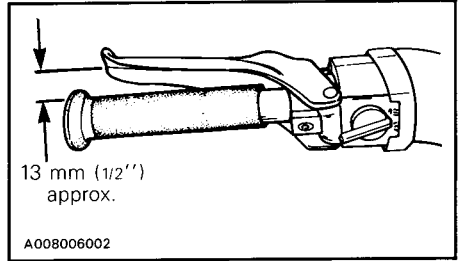
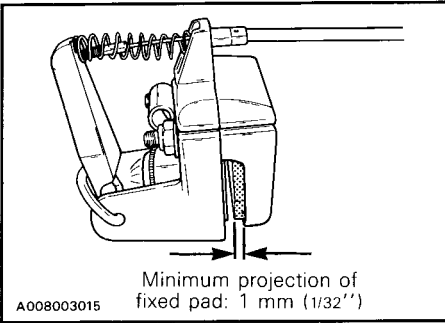
Après l'installation d'une courroie d'entraînement neuve, on recommande fortement d'observer une période de rodage de 25 km (15 milles).

○ **REMARQUE:** Toujours remettre une courroie de rechange de façon à ce qu'elle conserve sa forme naturelle.

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 1 mm (1/32") from caliper. Replacement must be performed by an authorized dealer.



Spark Plugs

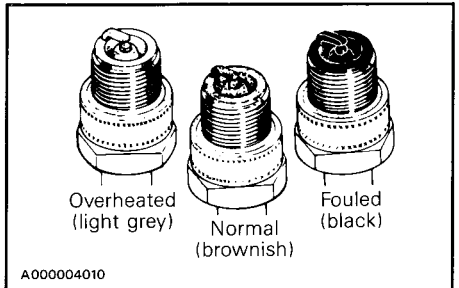
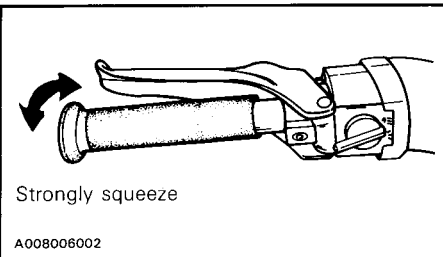
Disconnect the spark plug wires and remove the spark plugs.

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 fuel mixture ratio, 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 fuel mixture ratio, or a leaking seal or gasket.

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 self adjusting mechanism.



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

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

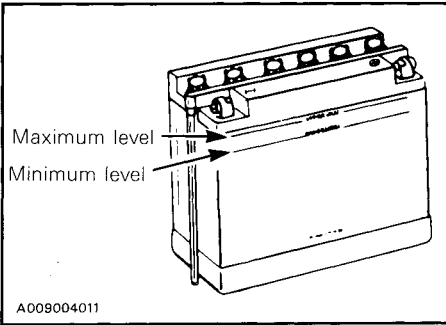
Check spark plug gap using a wire feeler gauge. It should be 0.4 mm (.016").

Reinstall spark plugs and connect wires.

Battery

(Electric starting)

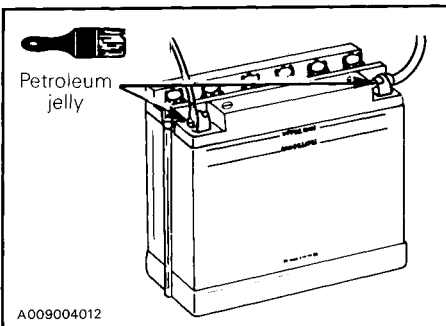
Check electrolyte level weekly. Electrolyte level must be at upper level line on battery casing.



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 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.

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

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

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.

NOTE: Always keep battery fully charged. (To charge, refer to "Battery" in "Storage" section).

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.

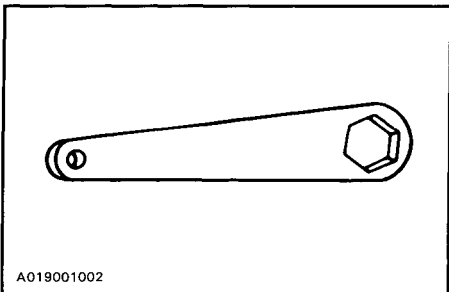
Stopper Strap Condition

Inspect strap for wear and cracks, bolt and nut for tightness. If loose inspect holes for deformation. Replace as required. Torque nut to 10 N•m (89 lbf•in).

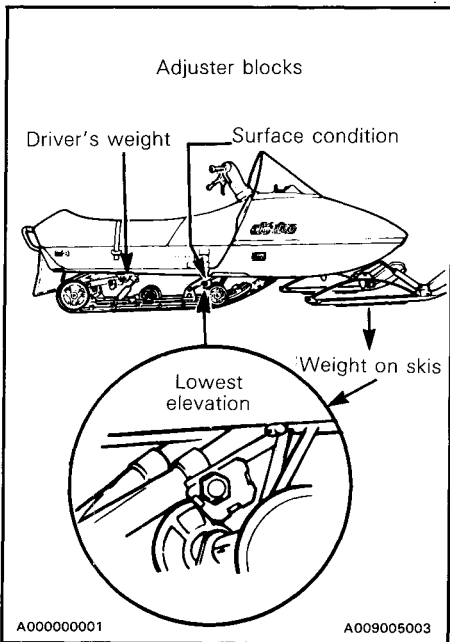
Suspension Adjustment

Adjuster blocks

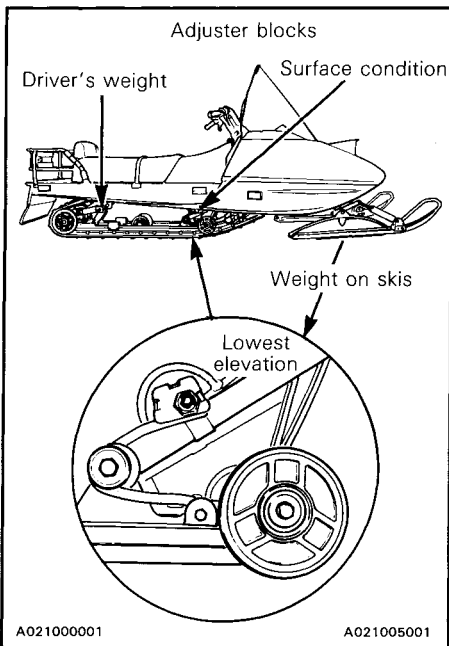
The suspension is adjustable. The front adjustment for surface condition, the rear for driver's weight. Use the special key located in tool box



Safari 377/377E



Safari 503



When the front adjuster blocks are at the lowest elevation more weight is distributed on the skis.

At the highest position the weight is transferred from the skis to the track. The rear adjuster blocks should be adjusted to suit the driver's preference.

○ NOTE: For deep snow condition or hill climbing, it is recommended to place the front adjuster blocks on the lowest position and set stopper strap to the shortest position.

▼ CAUTION: Always turn the left side adjuster blocks in a clockwise direction, the right side blocks in a counterclockwise direction. Left and right adjuster blocks of each adjustment must always be set at the same elevation.

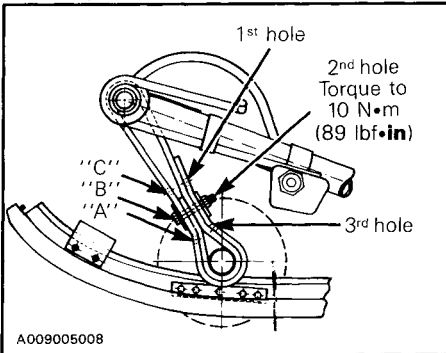
Stopper strap

The function of the suspension stopper strap is to control the transfer of vehicle weight **during acceleration**. 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. Adjusting holes on the stopper strap allow to adjust it according to driver's requirements, field and or snow conditions.

Safari 377/377E

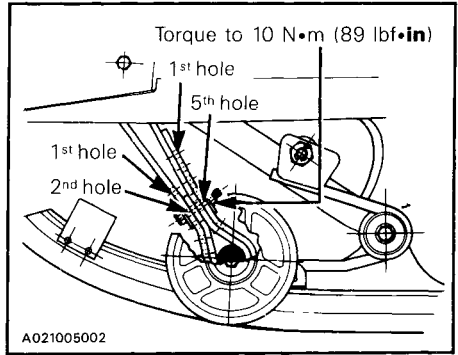
For normal use locate bolt through 2nd hole and its corresponding hole "B".

HOLE NUMBER	CORRESPONDING HOLE
1	"A"
2	"B"
3	"C"



Safari 503

For normal use, insert bolt through strap holes as shown.



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

Track Condition

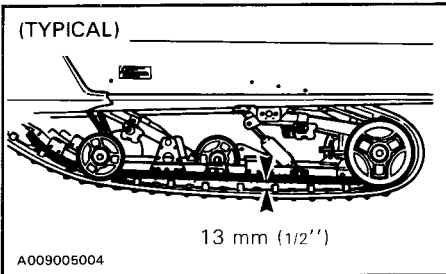
Lift the rear of the vehicle and support it off the ground. With the engine **OFF**, rotate the track by hand, and inspect condition. If worn or cut, or if track fibers are exposed, or if missing or defective inserts or guides are noted; contact an authorized dealer.

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

Track Tension and Alignment

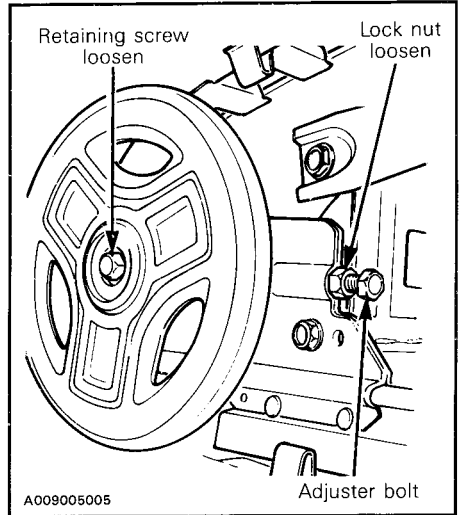
Tension:

Lift the rear of vehicle and support with a mechanical stand. Allow the suspension to extend normally and check gap half-way of slider shoe. The gap should be 13 mm (1/2'') between the slider shoe and the bottom inside of the track. 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.

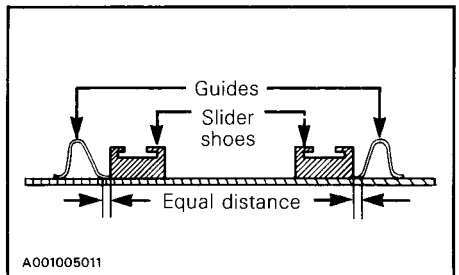
If necessary to adjust, loosen the rear idler wheel retaining screw and the adjuster bolt lock nut; then loosen or tighten the adjuster bolts located on the inner side of the rear idler wheels. If correct tension is unattainable, contact an authorized dealer.



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

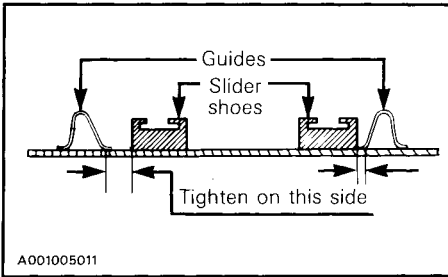
Alignment

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.

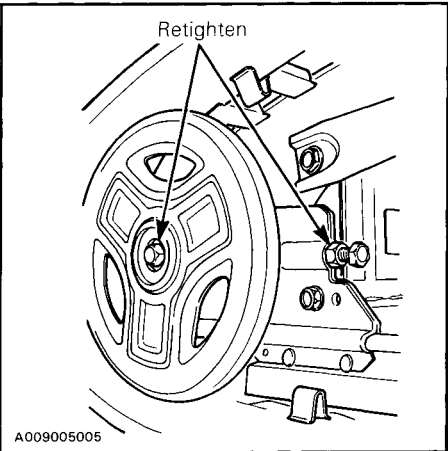


WARNING: Before checking track alignment, ensure that the track is free of all particles which could be thrown out while track is rotating. Keep hands, tools, feet and clothing clear of track. Ensure no-one is standing in close proximity to the vehicle.

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



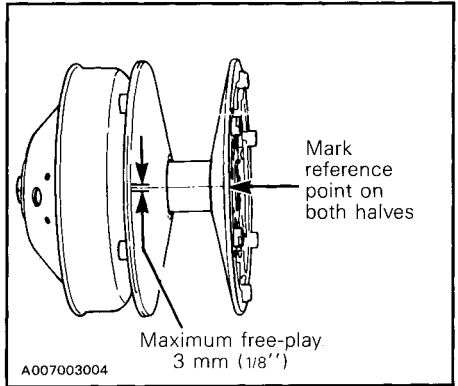
Tighten lock nuts and the idler wheel retaining screws.



Drive Pulley

Safari 377/377E

Inspect the Duralon bushing condition by checking the free-play of the sliding half pulley. This is achieved by restraining the inner half and checking if the sliding half moves in the direction of the arrows more than 3 mm (1/8"). If so, contact the dealer.



WARNING: The drive pulley should be inspected by an authorized dealer at least annually.

Safari 503

This vehicle is equipped with the TRA drive pulley (Total Range Adjustable). This pulley includes three (3) calibration screws that provide the opportunity to perform minor adjustments to the clutch in order to keep the engine at it's peak power R.P.M., thereby maintaining optimal vehicle performance.

The clutch is factory adjusted to position four (4) to provide the best performance under most riding conditions at sea level. However certain conditions, such as deep snow, high altitude, pulling a load, etc., may allow the engine to run below it's peak power R.P.M. at wide open throttle thus decreasing the vehicle performance. Should such conditions be encountered the calibration screws can then be reset to allow the engine to operate at it's peak power R.P.M. (given in technical data as max. HP R.P.M.).

The adjustment may be set at any one of six (6) positions, numbered from 1 to 6. Note that for casting purposes numeral one (1) appears as a dot. Each of these positions provides an increase or decrease, in numerical order, of the engine speed by approximately 200 R.P.M.

Example:

(Vehicle at sea level during full acceleration in normal conditions).

ADJUSTMENT SCREW	ENGINE SPEED
Position no 3	6550 R.P.M.
Position no 4	6750 R.P.M. (standard position)
Position no 5	6950 R.P.M.

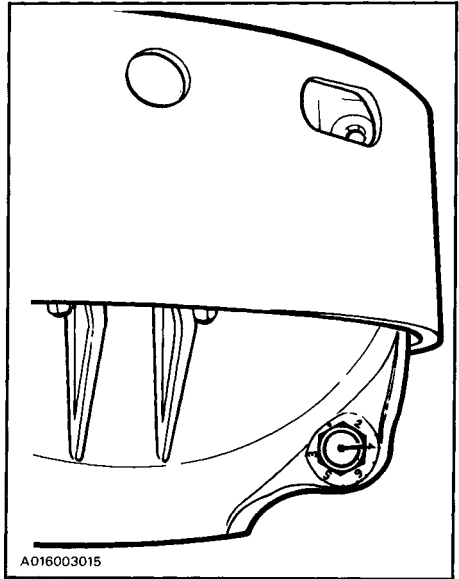
Positions three (3) and five (5) allow the engine to run below or above it's power peak. Reducing vehicle performance.

○ **NOTE:** One must bear in mind that the purpose of these calibration screws is to maintain the engine R.P.M. at it's peak power, a lower or upper speed will actually result in less vehicle performance.

The point of maximum power, in the 1988 Safari 503, occurs at about 6750 R.P.M., while the maximum permissible engine speed (red line) is 7500 R.P.M.

Adjustment Procedure

To change the calibration screw position; back off its locking nut and change the position of the calibration screw head. The notch on the screw head must be aligned with the desired numeral position. See illustration.



▼ **CAUTION:** Back off the calibration screw locking nut only far enough to allow a change of position of the screw head. **Never** attempt to remove the locking nut or the calibration screw. Make sure the adjustment is set at the **same** position for all three (3) screws.

◆ **WARNING:** Always retorque locking nut to 10 N•m (89 lbf•in).

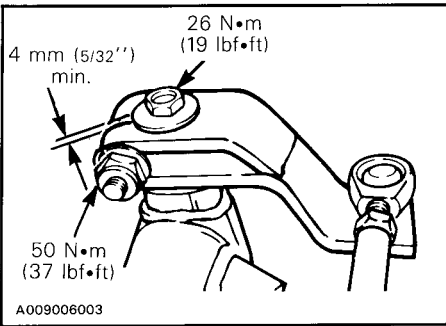
◆ **WARNING:** The drive pulley must be inspected and cleaned by an authorized dealer at least annually.

Steering Mechanism

Inspect the steering mechanism for tightness of components (steering arms, tie rods, ball joints, spring coupler bolts, etc.). If necessary, replace or retighten.

WARNING: Check the condition of the skis and the ski runners. Replace if more than half worn.

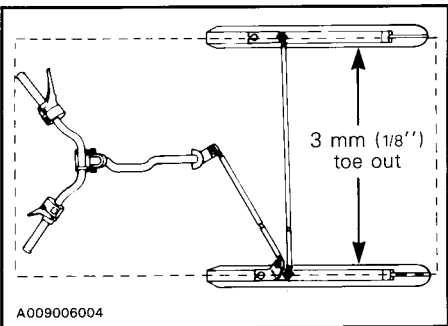
Torque steering arm bolts as illustrated below making sure to keep a minimum gap of 4 mm (5/32") between lugs.



Steering Adjustment

Skis should have a toe out of 3 mm (1/8"). To check, measure the distance between each ski at the front and rear of the leaf springs. The front distance should be 3 mm (1/8") more than the rear when the handlebar is horizontal.

IMPORTANT: Close the front of the skis manually to eliminate all slack from the steering mechanism.



If adjustment is required:

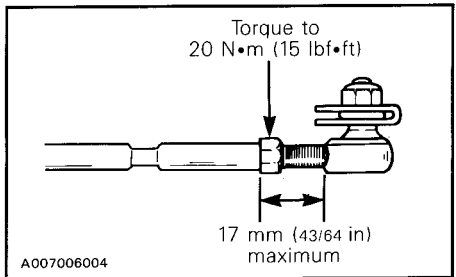
Loosen the lock nuts of the longest tie rod. Turn the tie rod manually until the skis are properly aligned. Firmly retighten the lock nuts.

The handlebar should also be horizontal when the skis are pointed toward the front.

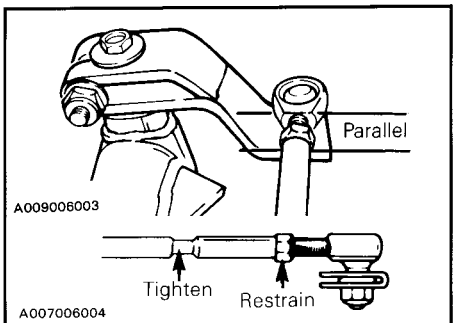
To adjust:

Loosen the lock nuts of the shortest tie rod. Turn the tie rod manually until the handlebar is horizontal. Retighten the lock nuts firmly.

WARNING: The maximum ball joint external threaded length not engaged in the tie rod end must not exceed 17 mm (43/64"). Torque lock nut to 20 N•m (15 lbf•ft).



WARNING: The ball joint socket must run parallel with the steering arm. The tie rod must be restrained when tightening the tie rod end lock nuts.



Muffler Attachment

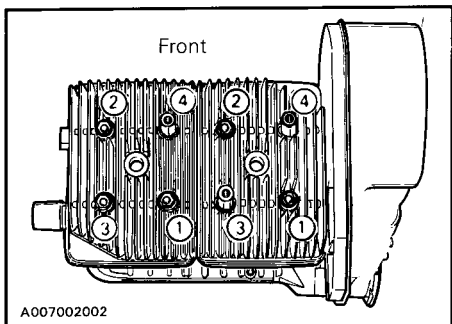
The engine/exhaust system parts are vital toward efficient muffler function. Check all attachments and muffler ball joint. Replace the springs and/or tighten if necessary.

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

Engine Head Nuts

With the engine cold, check that the engine head nuts are tight and equally torqued to 12 N•m (15 lbf•ft).

Respect tightening sequence as follows:



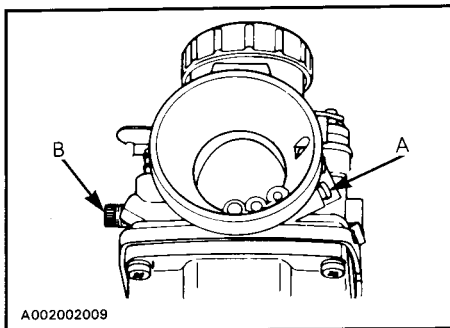
IMPORTANT: The engine head nut torque should be checked after the first five (5) hours of operation.

Engine Mount Nuts

Check the engine mount nuts for tightness. Torque to 38 N•m (28 lbf•ft) if necessary.

Carburetor Adjustment

▼ **CAUTION:** Never operate your snowmobile with the air intake silencer disconnected. Serious engine damage will occur if this notice is disregarded.



A) Air Screw Adjustment

Completely close the air screw (until a slight seating resistance is felt) then back off screw as follows:

Safari 377/377E: 1 1/2 turn

Safari 503: 1 turn

B) Idle Speed Adjustment

Turn the idle speed screw clockwise until it contacts the throttle slide then continue turning two (2) additional turns. This will provide a preliminary idle speed setting. Start engine and allow it to warm then adjust the idle speed to 1800-2000 R.P.M. by turning the idle speed screw clockwise or counterclockwise.

▼ **CAUTION:** Do not attempt to set the idle speed by using the air screw. Severe engine damage can occur. If idle speed is unattainable contact your authorized dealer.

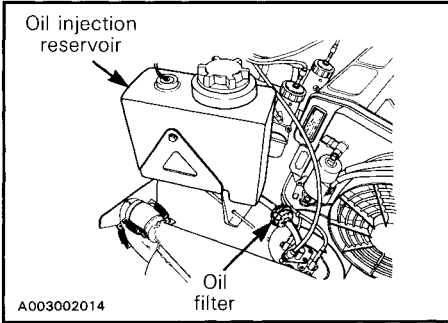
High Altitude Kit

Snowmobiles used in high altitude areas (1900 m (4000 ft) and up) are subjected to lose power, about 3% per 470 m (1000 ft) of elevation increase. The carburetor and power train have to be recalibrated to meet those particular requirements. Ask your authorized dealer for more information on high altitude kit availability.

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.



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

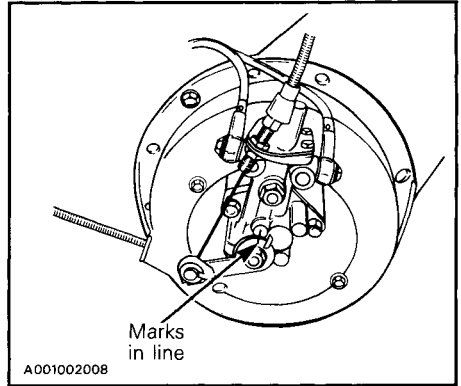
○ **NOTE:** After a storage period, it is important that the dealer replace the injection oil filter and that the oil flow of the injection pump be checked.

Injection Pump Adjustment

Proper oil injection pump adjustment is very important. 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 R.P.M.

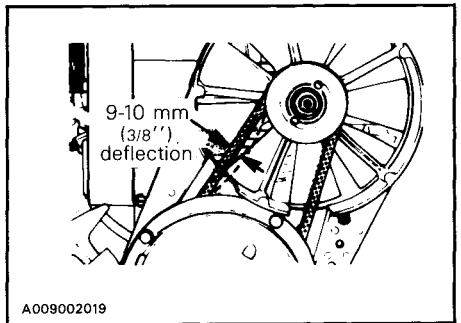
To check adjustment: Eliminate the throttle cable free-play by pressing the throttle lever until a slight resistance is felt then hold in place. The aligning marks on the pump casting and lever must align perfectly. If not, contact an authorized dealer.



○ **NOTE:** Injection pump should be adjusted by an authorized dealer.

Fan Belt

Inspect belt for cracks, uneven wear, etc. Check fan belt tension, 9-10 mm (3/8'') deflection should exist.



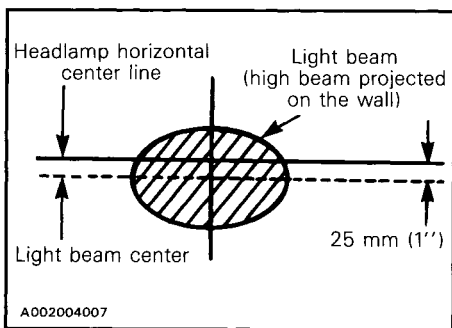
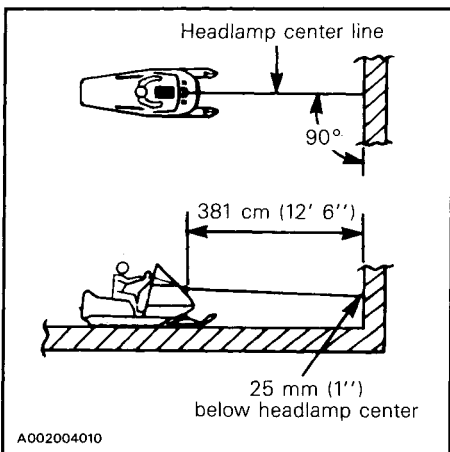
If belt seems damaged or if tension is incorrect, contact an authorized dealer immediately.

◆ **WARNING:** If fan protector is removed, always reinstall after servicing.

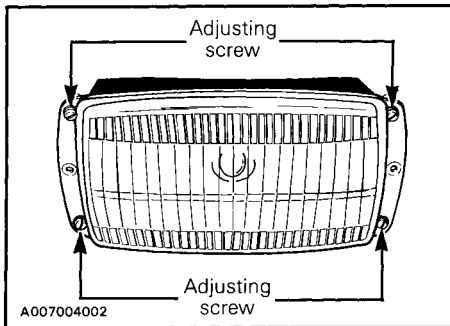
Headlamp Beam Aiming

The angle of the headlamp beam has been pre-adjusted prior to delivery. Should a readjustment is necessary, place the vehicle on a flat surface 381 cm (12' 6") from a wall or screen.

With the suspension correctly adjusted, the rider seated on the vehicle and the high beam ON check that the center of high intensity zone of high beam is 25 mm (1") below horizontal line of headlamp height.



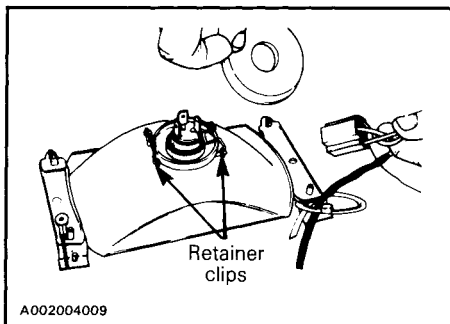
To adjust, remove the four (4) caps, turn upper or lower adjusting screws to obtain desired beam position.



Bulb Replacement

If the headlamp bulb is burnt, tilt hood, unplug the connector from the headlamp. Remove the rubber boot and unfasten bulb retainer clips. Detach the bulb and replace.

CAUTION: Never touch glass portion of an halogen bulb with bare fingers, it shortens it's operating life. If by mistake glass is touched clean it with a glass cleaner that will not leave a film on the bulb.



If taillight bulb is burnt, expose the bulb by removing the red plastic lens. To remove, unfasten the two (2) screws.

WARNING: Always check light operation after bulb replacement.

General Inspection

Check the 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 any length of time that proper storage is a necessity. Storage of the snowmobile during long periods of inactivity consists of checking and replacing missing, broken or worn parts, proper lubrication and treatment to insure that parts do not become rusted; cleaning items such as carburetor, to prevent gum and varnish formation within the carburetor, and in general, preparing the vehicle so that when the time comes to use the snowmobile again it will be in top condition.

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

Track

Inspect the track for wear, cuts, missing track guides and broken rods. Make any necessary replacement.

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

Lift the rear of vehicle until track is clear of the ground then support with a brace or trestle. The snowmobile should be stored in such a way that the track does not stay in contact with the cement floor or bare ground.

○ **NOTE:** The track should be rotated periodically, (every forty (40) days). Do not release track tension.

▼ **CAUTION:** To prevent track damage, temperature in the storage area must not exceed 38°C (100°F).

Suspension

Remove any dirt or rust. Lubricate suspension. Wipe off surplus. (Replace worn slider shoes).

Skis

Wash or brush all dirt or rust accumulation from the skis and springs. Lubricate steering system.

◆ **WARNING:** Check the condition of the skis, ski runners and leaf springs. Replace if weak or worn more than half.

Controls


Inspect all components for tightness, steering arm locking bolts, tie rods, ball joints, etc.). Tighten if necessary. 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 a greaseless metal protector. If unavailable, use petroleum jelly.

Chaincase

Drain the chaincase and refill to proper level, using fresh chaincase oil (P/N 413 8019 00-250 ml (9 oz)). To drain, remove the chaincase cover.

 **NOTE:** Chaincase oil capacity is about 200 ml (7 oz).

Drive Pulley


Inspection and cleaning must be performed by the dealer at the end of each season.

Engine and Primer Lubrication

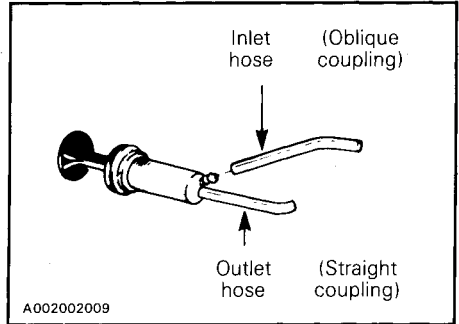
Engine internal parts must be lubricated to protect them from possible rust formation during the storage period.

To perform the storage procedures (engine and primer valve) proceed as follows:

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

 **WARNING:** Ensure 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.

2. Start the engine and allow it to run at idle speed until the engine reaches its operational temperature.
3. Stop the engine.
4. Disconnect the inlet primer hose from the primer valve.



5. Plug inlet primer hose to prevent gasoline from draining.
6. Using an appropriate hose, connect one end of the hose to the inlet of the primer valve and place the other end in a Bombardier Snowmobile Injection Oil container.
7. Activate the primer in order to fill it with oil.
8. Restart engine and run at idle.
9. Using the primer valve, inject oil until the engine dies or until a sufficient quantity of oil has entered the engine (approximately twenty-five (25) complete strokes of the primer).
10. The engine stopped, remove the spark plugs and pour approximately 85 ml (3 imp. oz) of oil into the cylinders.
11. Crank the engine to allow the crankshaft to turn two (2) or three (3) revolutions.
12. Reinstall the spark plugs and the inlet primer hose.

Do not run engine during storage period.

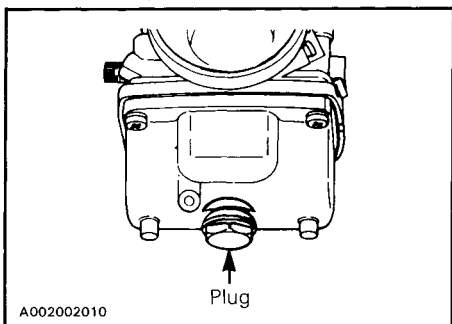
Fuel Tank and Carburetor

Remove the cap then using a syphon, remove the gasoline from tank.

◆ **WARNING:** Gasoline 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.

Carburetor must be dried out completely to prevent gum formation during the storage period.

Once the fuel tank is emptied, remove the float chamber drain plug from carburetor. Drain carburetor.



Reinstall plug.

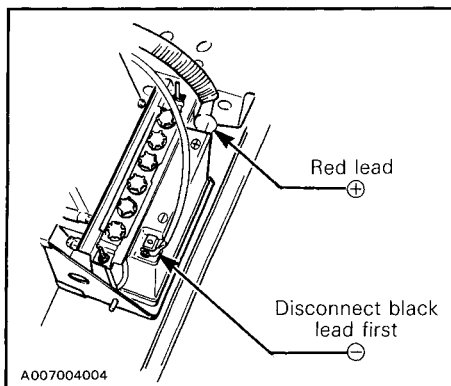
Check all fuel lines, replace if necessary.

Battery

(Electric Starting)

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.
4. 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 interior 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.

6. Coat electrical connections and switches with a greaseless metal protector, 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 forty (40) days.

Chassis

Clean the vehicle thoroughly, removing all dirt and grease accumulation.

▼ **CAUTION:** Plastic alloy components such as fuel tank, windshield, controls, etc., can be cleaned using mild detergents or isopropyl alcohol and a soft clean cloth. Never clean plastic parts with strong detergent, degreasing agent, paint thinner, acetone, etc. Do not apply isopropyl alcohol directly on decals.

Inspect the hood and repair any damage. Clean the frame.

For the unpainted aluminum portion use only "Aluminum cleaner" and follow instructions on the container.

Touch up all metal spots where paint has been scratched off. Spray all metal parts with metal protector. 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:** If for some reason the snowmobile has to be stored outside it is necessary to cover it with an opaque tarpaulin. This caution will prevent the sun rays and the grime from affecting the plastic components and the vehicle finish.

General Inspection

Check the 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.

○ **NOTE:** Leave the drive belt off the pulleys for the entire storage period.

Suspension Stopper Strap

Replace annually and/or as stopper strap condition dictates. Torque nut to 10 N•m (89 lbf•in).

PRE-SEASON PREPARATION

To simplify the pre-season preparation we have drawn up a small chart. The chart indicates servicing points to be performed by you and your dealer. If these services are performed as suggested, your vehicle will give many hours of fun.


IMPORTANT: Observe all Warnings and Cautions mentioned throughout this manual which are pertinent to the item being checked. When component conditions seem less than satisfactory, replace with genuine Bombardier parts or suitable equivalents.

PRE-SEASON PREPARATION CHART	TO BE PERFORMED BY DEALER	●
	TO BE PERFORMED BY THE OWNER	○
Reinstall battery (electric starting)		○
Change spark plugs*		○
Check chaincase oil level		○
Replace fuel filter (located inside fuel tank)		○
Check track tension and alignment		○
Lubricate suspension		○
Inspect drive belt and install		○
Check steering alignment and ski runner condition		○
Inspect condition of starting rope		○
Check tightness of all bolts, nuts and linkage		○
Refill gas tank		○
Check throttle cable for free operation		●
Check electrical wiring		○
Inspect seals for possible cuts or leaks		○
Replace injection oil filter		●
Refill injection oil tank		●
Inspect brake condition and operation		○
Set engine timing		●
Check pulleys, verify components and clean, lubricate driven pulley		●
Adjust carburetor		●
Adjust oil injection pump		●

○ *NOTE: Before installing new spark plugs, it is suggested to burn the excess storage oil by starting the engine, using the old spark plugs.

▼ CAUTION: Only perform this procedure in a well ventilated area.

TROUBLE SHOOTING

 **NOTE:** The possible causes have been listed in an order of frequency. Therefore, items should be checked out in the same order as mentioned in the trouble shooting guide.

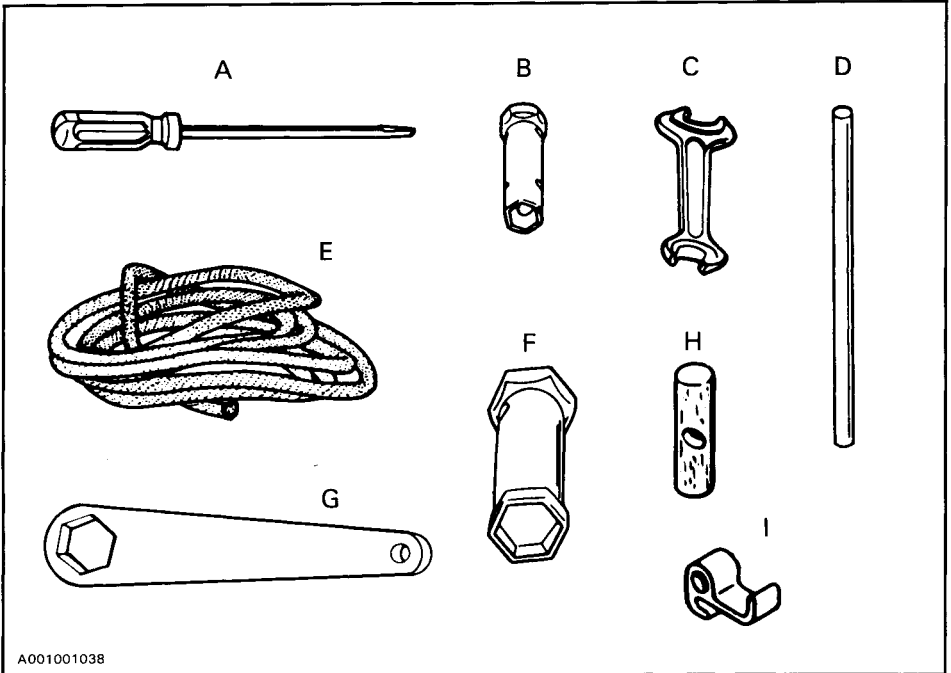
SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
Engine turns over but fails to start or starts with difficulty.	1. No fuel to the engine	Check the tank level. Check for possible clogging of fuel line, item 4.
	2. Flooded engine	Remove wet spark plug, turn ignition to OFF and crank engine several times. Install clean dry spark plug. Start engine following usual starting procedure. If engine continues to flood, see your authorized dealer.
	3. Spark plug/ignition	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 cylinder head. Reconnect wire and ground exposed plug on engine cowl, being careful to hold away from spark plug hole . Follow engine starting procedure and check for spark. If no sparks appear, replace spark plug. If trouble persists, contact your authorized dealer.
	4. Clogged fuel line (water or dirt)	Change fuel filter if necessary. Check condition and connections of fuel lines. Check the cleanliness of fuel tank.
	5. Carburetor	Contact your authorized dealer for repair.
	6. Too much oil in fuel	See an authorized dealer for oil injection pump adjustment.
	7. Engine timing	Engine timing may be incorrect or out of adjustment. Contact your authorized dealer.
8. Engine compression	Running with a lean fuel mixture may produce excessive engine wear resulting in poor engine compression. If this occurs, contact your authorized dealer at once.	

SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
Engine does not turn manually.	1. Seized engine	In the case of a seized engine contact your authorized dealer.
Engine lacks acceleration or power.	1. Fouled or defective spark plug	Check item 3 of "Engine turns over but fails to start or starts with difficulty".
	2. Clogged fuel line (water or dirt)	Check fuel line condition. (See item 4 of "Engine turns over but fails to start or starts with difficulty").
	3. Carburetor	Contact your authorized dealer.
	4. Ignition	First check item 3 of "Engine turns over but fails to start or starts with difficulty". If the ignition system still seems faulty, contact your authorized dealer.
	5. Engine	If unable to locate specific symptoms, contact your authorized dealer.
Engine continually backfires.	1. Faulty spark plug	Check item 3 of "Engine turns over but fails to start or starts with difficulty".
	2. Overheated	Carburetor set too lean, contact your authorized dealer.
	3. Engine timing incorrectly set	Contact your authorized dealer.
Snowmobile cannot reach full speed.	1. Drive Belt	Check for damaged or worn drive belt. Replace if necessary.
	2. Incorrect track adjustment	Check track tension and alignment. Readjust to specifications. (See Maintenance Section).
	3. Engine	Check item 1 to 5 of "Engine lacks acceleration or power".
	4. Pulley misaligned	Contact your authorized dealer.

TOOLS

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

Standard Tools



A001001038

- | | |
|-----------------------------|--|
| A. Screwdriver | F. Socket 21/26 mm |
| B. Socket 10/13 mm | G. Hexagonal wrench |
| C. Open end wrench 10/13 mm | H. Starter grip |
| D. Socket wrench handle | I. Emergency starter clip
(Safari 503 only) |
| E. Starter rope | |

SPECIFICATIONS

	SAFARI 377	SAFARI 377E
ENGINE		
Type	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	6.9:1
Maximum horsepower R.P.M.*	7000 R.P.M.	7000 R.P.M.
Carburetor type	Mikuni VM 34-309	Mikuni VM 34-309
Carburetor adjustment:		
— air screw	1 1/2 turn	1 1/2 turn
— idle speed	1800-2000 R.P.M.	1800-2000 R.P.M.
Fan belt deflection	9-10 mm (3/8")	9-10 mm (3/8")
Torque:		
— engine head nuts	M8: 21 N•m (15 lbf•ft)	M8: 21 N•m (15 lbf•ft)
— crankcase nuts	M6: 9 N•m (80 lbf•in)	M6: 9 N•m (80 lbf•in)
— magneto ring nut	M22: 85 N•m (63 lbf•ft)	M22: 85 N•m (63 lbf•ft)
— fan nut	M16: 65 N•m (48 lbf•ft)	M16: 65 N•m (48 lbf•ft)
— crankcase engine support nuts	M10: 38 N•m (28 lbf•ft)	M10: 38 N•m (28 lbf•ft)
— exhaust manifold bolts	M8: 21 N•m (15 lbf•ft)	M8: 21 N•m (15 lbf•ft)
— electrical starter bolts	N.A.	M5: 4 N•m (3 lbf•ft)
CHASSIS		
Overall length	266.7 cm (105")	266.7 cm (105")
Overall width	96.5 cm (38")	96.5 cm (38")
Overall height	106.4 cm (42")	106.4 cm (42")
Ski stance (center to center)	81.9 cm (32.25")	81.9 cm (32.25")
Ski alignment (toe out)	3 mm (1/8")	3 mm (1/8")
Torque:		
— steering arm/ski leg bolt	50 N•m (37 lbf•ft)	50 N•m (37 lbf•ft)
— steering column/handlebar	26 N•m (19 lbf•ft)	26 N•m (19 lbf•ft)
Weight	179.8 kg (396 lb)	188.9 kg (416 lb)
Bearing area	7065 cm ² (1030 in ²)	7065 cm ² (1030 in ²)
Ground pressure	2.54 kPa (.362 lb/in ²)	2.67 kPa (.378 lb/in ²)
BRAKE		
Type	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.	

N.A.: Not applicable

*The maximum horse R.P.M. is applicable with engine on the vehicle. It may be different under certain circumstances and Bombardier Inc. reserves the right to modify it without any obligation.

SAFARI 377**SAFARI 377E****POWER TRAIN**

Track:

- width	41.9 cm (16 1/2'')	41.9 cm (16 1/2'')
- length	290 cm (114'')	290 cm (114'')
- tension	13 mm (1/2'') gap between slider shoe and bottom inside of track.	
- alignment	Equal distance between edges of track guides and slider shoes.	

Standard gear ratio

16/34

16/34

Drive belt:

- number	414 5233 00	414 5233 00
- maximum width	34.9 mm (1 3/8'')	34.9 mm (1 3/8'')
- minimum width	31.7 mm (1 1/4'')	31.7 mm (1 1/4'')
Chaincase oil	200 ml (7 oz)	200 ml (7 oz)

ELECTRICAL

Lighting system (output)

12 V 160 W

12 V 160 W

Bulb:

- headlamp	60/60 W	60/60 W
- tail/stop	5/21 W	5/21 W
- speedometer	5 W	5 W
- tachometer	N.A.	N.A.
- electric fuel level gauge	2 W	2 W

Fuse:

- starter solenoid	N.A.	30 A
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Spark plug:

- type	NGK BR9ES	NGK BR9ES
- gap	0.4 mm (0.016'')	0.4 mm (0.016'')

Ignition timing:

- timing mark (B.T.D.C.)	2.31 mm (.091'')	2.31 mm (.091'')
- stroboscopic timing	6000 R.P.M.	6000 R.P.M.

FUEL

Gas type

Regular leaded.

Regular leaded.

Fuel tank capacity:

- SI	28.6 liters	28.6 liters
- Imp.	6.3 gallons	6.3 gallons
- U.S.	7.6 gallons	7.6 gallons

Injection oil

Bombardier snowmobile injection oil.

Tank capacity:

- SI	2.6 liters	2.6 liters
- Imp.	92 oz	92 oz
- U.S.	88 oz	88 oz

Hal.: Halogen

N.A.: Not applicable

Bombardier Inc. reserves the right to make changes in design and specifications and/or to make additions to, or improvements in its product without imposing any obligation upon itself to install them on its products previously manufactured.

SAFARI 503

ENGINE

Type	503
No of cylinders	2
Bore	72 mm (2.835")
Stroke	61 mm (2.402")
Displacement	496.7 cm ³ (30.27 in ³)
Compression ratio (corrected)	6.2:1
Maximum horsepower R.P.M.*	6750 R.P.M.
Carburetor type	Mikuni VM 34-363
Carburetor adjustment:	
— air screw	1 1/2 turn
— idle speed	1800-2000 R.P.M.
Fan belt deflection	9-10 mm (3/8")
Torque:	
— engine head nuts	M8: 21 N•m (15 lbf•ft)
— crankcase nuts	M6: 9 N•m (80 lbf•in)
	M8: 21 N•m (15 lbf•ft)
— magneto ring nut	M22: 85 N•m (63 lbf•ft)
— fan nut	M16: 65 N•m (48 lbf•ft)
— crankcase engine support nuts	M10: 38 N•m (28 lbf•ft)
— exhaust manifold bolts	M8: 21 N•m (15 lbf•ft)
— electrical starter bolts	N.A.

CHASSIS

Overall length	302.3 cm (119")
Overall width	96.5 cm (38")
Overall height	120.6 cm (47.5")
Ski stance (center to center)	81.9 cm (32.25")
Ski alignment (toe out)	3 mm (1/8")
Torque:	
— steering arm/ski leg bolt	50 N•m (37 lbf•ft)
— steering column/handlebar	26 N•m (19 lbf•ft)
Weight	197.8 kg (436 lb)
Bearing area	7910 cm ² (1227 in ²)
Ground pressure	2.50 kPa (.355 lb/in ²)

BRAKE

Type	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.

N.A.: Not applicable

*The maximum horse R.P.M. is applicable with engine on the vehicle. It may be different under certain circumstances and Bombardier Inc. reserves the right to modify it without any obligation.

SAFARI 503

POWER TRAIN

Track:	
– width	41.9 cm (16 1/2'')
– length	353 cm (139'')
– tension	13 mm (1/2'') gap between slider shoe and bottom inside of track.
– alignment	Equal distance between edges of track guides and slider shoes.
Standard gear ratio	14/39
Drive belt:	
– number	414 6175 00
– maximum width	34.9 mm (1 3/8'')
– minimum width	31.7 mm (1 1/4'')
Chaincase oil	200 ml (7 oz)

ELECTRICAL

Lighting system (output)	12 V 160 W
Bulb:	
– headlamp	60/55 W. HAL.
– tail/stop	5/21 W
– speedometer	5 W
– tachometer	N.A.
– electric fuel lever gauge	N.A.
Spark plug:	
– type	NGK BR9ES
– gap	0.4 mm (0.016'')
Ignition timing:	
– timing mark (B.T.D.C.)	2.29 mm (.090'') (20°)
– stroboscopic timing	6000 R.P.M.

FUEL

Gas type	Regular leaded.
Fuel tank capacity:	
– SI	28.6 liters
– Imp.	6.3 gallons
– U.S.	7.6 gallons
Injection oil	Bombardier snowmobile injection oil.
Tank capacity:	
– SI	2.6 liters
– Imp.	92 oz
– U.S.	88 oz

Hal.: Halogen

N.A.: Not applicable

Bombardier Inc. reserves the right to make changes in design and specifications and/or to make additions to, or improvements in its product without imposing any obligation upon itself to install them on its products previously manufactured.

SI* METRIC INFORMATION GUIDE

BASE UNITS

DESCRIPTION	UNIT	SYMBOL
length	meter	m
mass	kilogram	kg
force	Newton	N
liquid	liter	l
temperature	Celsius	°C
pressure	kilopascal	kPa
torque	Newton meter	N•m
speed	kilometer per hour	km/h

PREFIXES

PREFIX	SYMBOL	MEANING	VALUE
kilo	k	one thousand	1000
centi	c	one hundredth	0.01
milli	m	one thousandth	0.001

CONVERSION FACTORS

TO CONVERT	TO †	MULTIPLY BY
lbf•ft	lbf•in	12
imp. oz	U.S. oz	0.96
imp. gal.	U.S. gal.	1.2
in	mm	25.4
in	cm	2.54
ft	m	0.3
MPH	km/h	1.61
in ²	cm ²	6.45
in ³	cm ³	16.39
imp. oz	ml	28.41
U.S. oz	ml	29.57
imp. gal.	l	4.55
U.S. gal.	l	3.79
oz	g	28.35
lb	kg	0.45
lbf	N	4.4
lbf•in	N•m	0.11
lbf•ft	N•m	1.36
lbf/in ²	kPa	6.89
Fahrenheit	Celsius	(°F - 32) ÷ 1.8
Celsius	Fahrenheit	(°C × 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.

NOTES

WIRING DIAGRAM

COLOUR CODE					
BK	—	BLACK	GN	—	GREEN
WH	—	WHITE	GY	—	GREY
RD	—	RED	VI	—	VIOLET
BL	—	BLUE	OR	—	ORANGE
YL	—	YELLOW	BR	—	BROWN



WARNING: Ensure all terminals are properly crimped on the wires and all connector housings are properly fastened.

Safari 377/503

Location of connector housings
(Refer to diagram)

- C-1: On engine, right side
- C-2: On engine, right side
- C-3: On engine, right side
- C-4: On engine, right side
- C-5: On ignition switch
- C-6: In console, left side
- C-7: Near steering column
- C-8: Near steering column
- C-9: In console, left side
- C-10: In hood, near instruments
- C-11: In hood, near instruments
- C-12: In hood, near instruments
- C-13: In hood, near instruments
- C-14: In hood, near instruments
- C-15: In hood, near instruments
- C-16: Near injection oil reservoir
- C-17: Between seat and fuel tank
- C-18: On taillight
- C-19: Near voltage regulator
- C-20: Between seat and fuel tank
- C-21: In console, left side

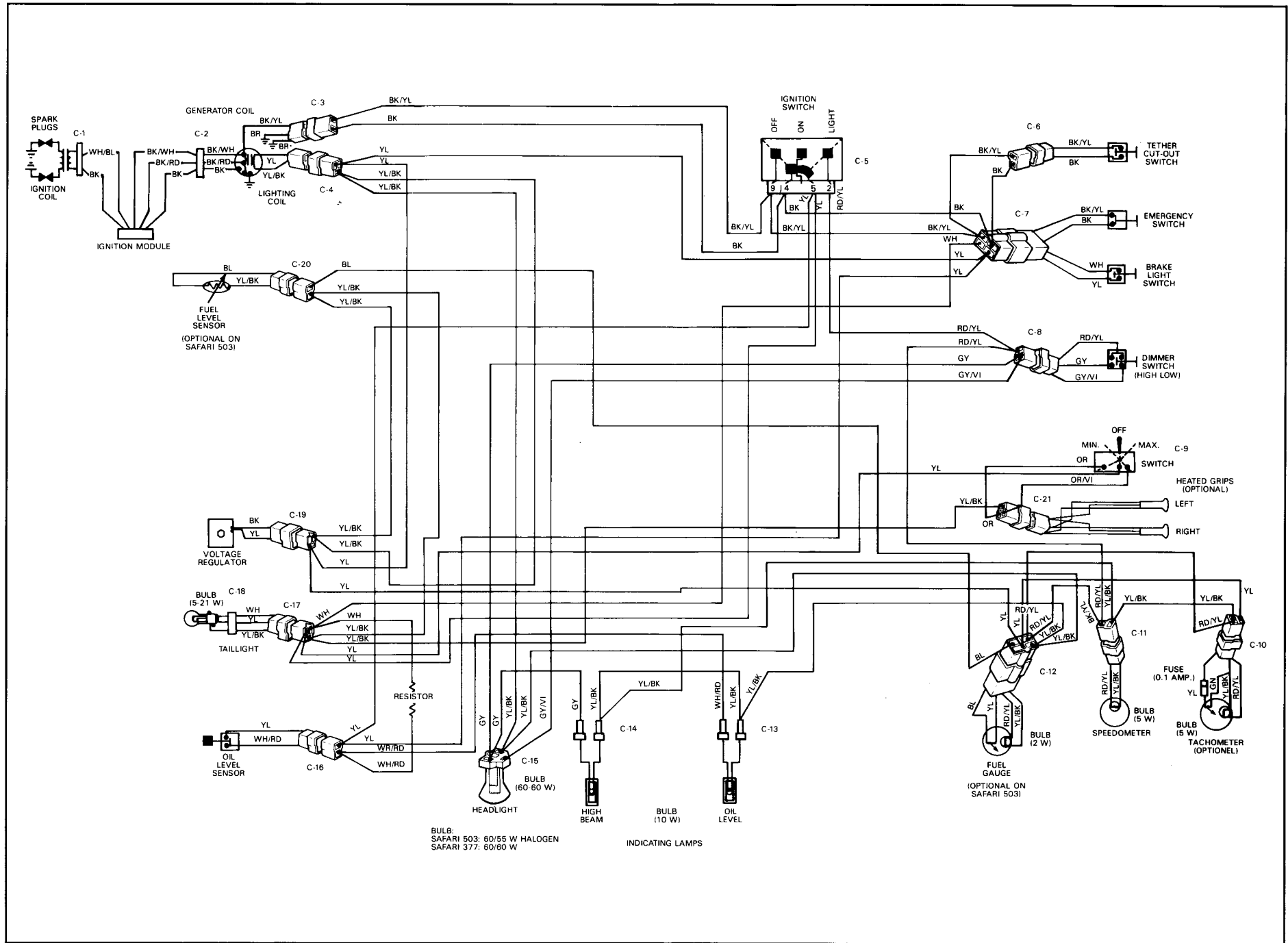
Safari 377E

Location of connector housings
(Refer to diagram)

- C-1: On engine, right side
- C-2: On engine, right side
- C-3: On engine, right side
- C-4: On engine, right side
- C-5: On ignition switch
- C-6: In console, left side
- C-7: Near steering column
- C-8: Near steering column
- C-9: In console, left side
- C-10: In hood, near instruments
- C-11: In hood, near instruments
- C-12: In hood, near instruments
- C-13: In hood, near instruments
- C-14: In hood, near instruments
- C-15: In hood, near instruments
- C-16: Near injection oil reservoir
- C-17: Between seat and fuel tank
- C-18: On taillight
- C-19: Near regulator/rectifier
- C-20: Between seat and fuel tank
- C-21: In console, left side

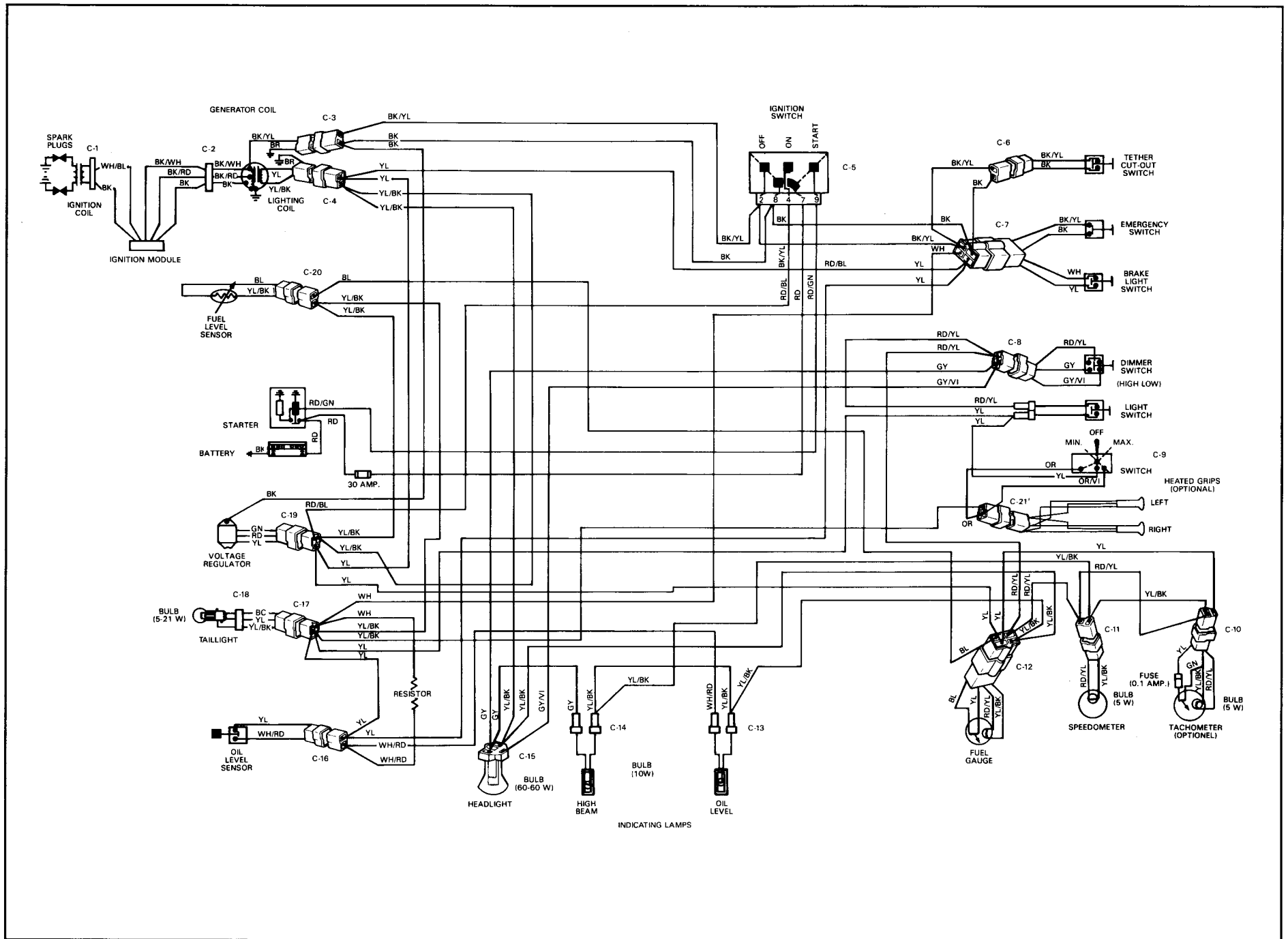
WIRING DIAGRAM

SAFARI 377/503



WIRING DIAGRAM

SAFARI 377E



CHANGE OF ADDRESS OR OWNERSHIP

Any change in address or ownership should be brought to the attention of the manufacturer by completing and sending out the card below.

NOTICE TO ALL NEW OWNERS: Make sure to receive the warranty registration card from the previous owner, when the ownership is transferred. Also enclose a photocopy of this registration card when informing of a change of ownership.



CHANGE OF ADDRESS

VEHICLE IDENTIFICATION NUMBER

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

OLD ADDRESS:

NAME		
NO	STREET	APT.

CITY	STATE/PROVINCE	ZIP/POSTAL CODE

NEW ADDRESS:

NAME		
NO	STREET	APT.

CITY	STATE/PROVINCE	ZIP/POSTAL CODE



CHANGE OF OWNERSHIP

VEHICLE IDENTIFICATION NUMBER

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

The ownership of this vehicle is transferred

FROM:

NAME		
NO	STREET	APT.

CITY	STATE/PROVINCE	ZIP/POSTAL CODE

TO:

NAME		
NO	STREET	APT.

CITY	STATE/PROVINCE	ZIP/POSTAL CODE



STAMP

BOMBARDIER INC.
ATT.: WARRANTY DEPARTMENT
VALCOURT (QUEBEC)
CANADA JOE 2LO

STAMP

BOMBARDIER INC.
ATT.: WARRANTY DEPARTMENT
VALCOURT (QUEBEC)
CANADA JOE 2LO