operator's manual







DEALER IMPRINT AREA

AFTER SALES SERVICE BOMBARDIER INC. VALCOURT (QUEBEC) CANADA JOE 2L0



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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.
- The snowmobile engine can be stopped by activating the emergency cut-out or tether switches or turning off the key.
- Clean and check operation of the headlight, tail light 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.
- 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.

- 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.
- 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 surface. Prolonged idling and/or continuous driving on ice may cause engine damage.
- 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.
- These vehicles are designed for the driver only. No provisions have been made for a passenger.
- The performance of these vehicles may significantly exceed that of other snowmobiles you have operated. Therefore, use of this vehicle by novice or inexperienced operators is not recommended.
- 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.

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 snow-mobile?
 - 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.

O: 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 Newfoudland, 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
 PO. Box 16106
 Duluth, Minnesota 55816-0106
 (218) 628-2881
 East-Central, Central Region

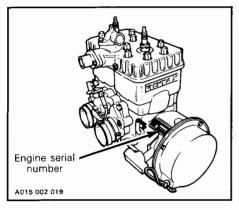
P.O. Box 1569
 Idaho Falls, Idaho 83403
 (208) 529-9510
 Western Region

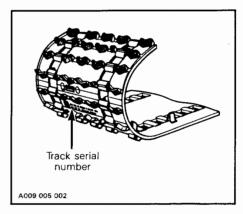
NATIONAL SALES OFFICE O'Hare Lake Plaza 2350, Devon Avenue Suite 150 Des Plaines, Illinois 60018 (312) 298-9540

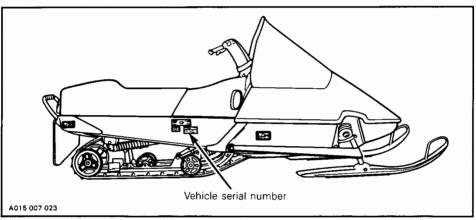
MILLER EQUIPMENT AND RECREATIONAL CENTER 1049, Whitney Road Anchorage, Alaska 99501 (907) 274-9513 Alaska

HOW TO IDENTIFY YOUR SNOWMOBILE

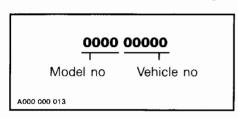
The main components of your snowmobile (engine, track and frame) are identified by different serial numbers. It may sometimes become necessary to locate these numbers for warranty purposes or to trace your snowmobile in the event of theft.





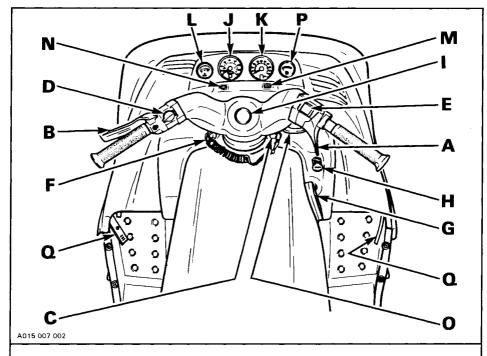


Vehicle serial number meaning:



1988 Formula MX/MX LT/PLUS have 3732, 3734 and 3733 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.



- A) Throttle Lever
- B) Brake Lever
- C) Ignition/Light Switch
- D) Headlamp Dimmer Switch
- E) Emergency Cut-out Switch
- F) Tether Cut-out Switch
- G) Rewind Starter Handle
- H) Primer
- I) Adjustable Steering Handle

- J) Speedometer
- K) Tachometer
- L) Temperature Gauge
- M) Injection Oil Level Pilot Lamp (red)
- N) High Beam Pilot Lamp (blue)
- O) Tank Cap
- P) Electric Fuel Level Gauge
- Q) Hood Opening

A) Throttle Lever

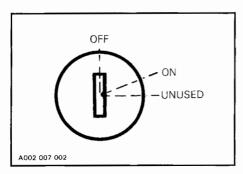
Located on the right side of handlebar. When compressed, it controls the engine speed and the engagement of the transmission. When released, engine speed returns automatically to idle.

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

The lights are automatically ON whenever the engine is running.

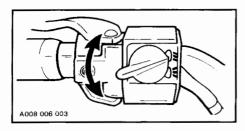


Key operated, three (3) position switch. To start the engine, first turn key to ON position. To stop the engine, turn the key to OFF position.

The 3rd position is unused.

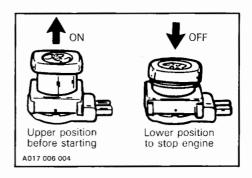
D) Headlamp Dimmer Switch

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



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

WARNING: For safety reasons, the emergency cut-out switch is easily accessible; be careful not to operate it inadvertently.

F) Tether Cut-out Switch

A pull switch located below the handlebar. Attach tether cord to wrist or other convenient location then snap tether cutout 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.

G) Rewind Starter Handle

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

H) Primer

A push-pull button located below handlebar. 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.

I) 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.

J) 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.

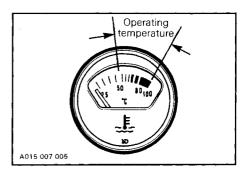
K) Tachometer

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

CAUTION: The tachometer is protected by a fuse, if tachometer stops operating check fuse condition and if necessary replace. The fuse is 0.1 amp. Do not use a higher rated fuse as this can cause severe damage to the tachometer.

L) Temperature Gauge

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



However, coolant temperature can vary depending on driving condition. 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 possible severe burns could occur.

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 out of oil. Serious engine damage will occur.

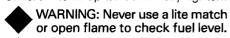
NOTE: Whenever brake lever is compressed, oil injection level pilot lamp should light up. If not replace lamp.

N) High Beam Pilot Lamp (Blue)

Lights up when headlamp is on high beam.

O) Tank Cap

Unscrew to fill up tank then fully tighten.



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

P) Electric Fuel Level Gauge

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

Q) Hood Opening

Pull down the latches to unlock the hood from its 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.

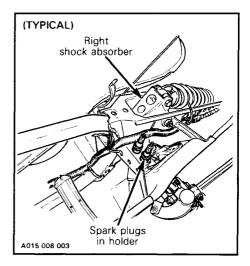
Tool Bag

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 inside of hood, close to top of right shock absorber.

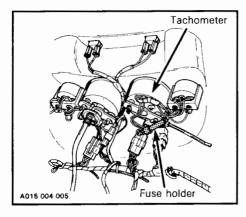
Fully tighten them into the holder.



Fuse Holder

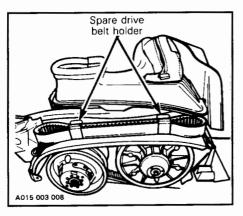
Tachometer

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



Spare Drive Belt Holder

A spare drive belt can be installed in clips on belt guard.

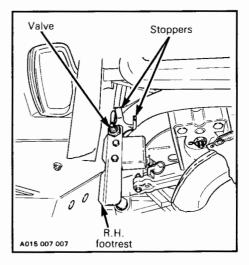


Fuel Shut-off Valve

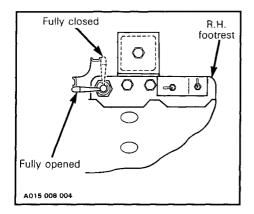
It is recommended to close it when transporting or storing vehicle. The valve is under hood, on top of R.H. side footrest.

Two stoppers are provided on the fuel shut-off valve to prevent the lever from rotating due to vibrations.

These stoppers are set so that the inner tip of the lever slightly contacts the stoppers while in the **fully opened** or **fully closed** positions.



When opening or closing valve, always rotate lever so that it flips over the stopper and maintains its position.

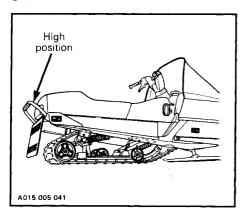


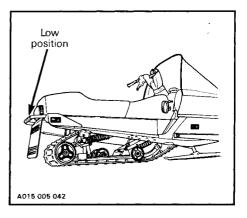
Fully open the valve in order to operate the vehicle.

CAUTION: Always **fully** open the valve before riding. **Never** allow the valve lever to remain between stoppers.

Rear Bumper

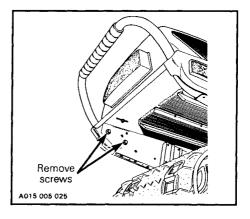
The rear bumper can be installed in two (2) positions as desired by the driver. The low position can be useful when the driver is digged in deep snow to give a grip at a more convenient level.





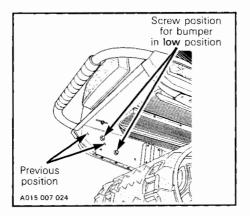
To install bumper in its **lower** position, proceed as follows:

- Lift snow guard and block in that position.
- From inside of tunnel, remove both bumper retaining screws, each side of vehicle.



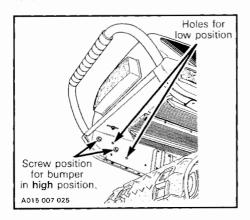
- Take bumper off.
- Reverse bumper position and fully insert into tunnel.

 When installing bumper in its lower position, the retaining screws have to be relocated in different holes as shown.



- Firmly tighten bumper screws.
- -- Replace snow guard.

NOTE: When installing bumper at its upper position, bumper retaining screws have to be relocated in different holes as shown.



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 engines, a break-in period is required before running the vehicle at full throttle. Engine's manufacturer recommendation is ten (10) to fifteen (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 breakin, 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.



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 ten (10) hours of operation or thirty (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 CHECK LIST	1			
Engine timing				
Spark plugs condition: (remove and clean)				
Carburetor adjustment				
Oil injection pump adjustment				
Engine head nuts				
Drive pulley screw (torque)				
Engine mount screws				
Muffler attachment				
Chaincase oil level				
Drive chain tension				
Injection system oil level				
Rotary valve oil level				
Engine coolant level				
Brake operation and lining condition				
Ski alignment (runners condition), ski leg camber adjustment				
Steering arm, retorque to 25 N·m (18 lbf·ft)				
Handlebar bolts, retorque to 26 N•m (19 lbf•ft)				
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, 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				
We recommend that you have your dealer sign this inspection.				

Dealer signature

18 _____

Date of 10 hour inspection

Recommended Gasoline

Use the specified gasoline, leaded or unleaded, available from most service stations.

MODEL	GAS TYPE		
Formula MX/MX LT	Regular		
Formula PLUS	Premium (90 octane)		

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 naphta 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).

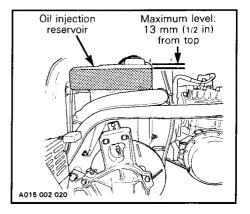
It is a blend of specially selected base oils and additives which provides outstanding lubrication, engine cleanliness and minimum spark plug fouling.

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

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.



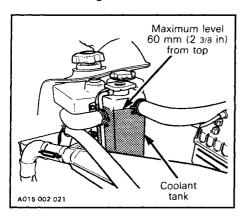
CAUTION: Check level and refill every time you refuel. Do not overfill.

NOTE: To assure additional protection during the initial engine breakin, 500 ml (18 imp. oz) of BLIZZARD Oil 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 coolant level. Liquid should be 60 mm (2 3/8 in) lower than top of radiator (engine cold).

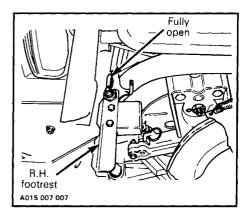


If additional coolant is necessary or if entire system has to be refilled, use a solution of three (3) parts of antifreeze for two (2) parts of water (60% antifreeze, 40% water). (See "Cooling System" in "Storage" section).

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

WARNING: Before removing the radiator pressure cap 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 possibility of severe burns could occur, if this notice is disregarded.

- · Check injection oil level.
- Check fuel level.
- Ensure fuel shut-off valve is in fully opened position.

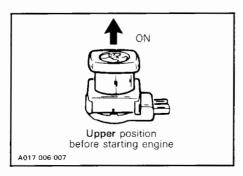


- Verify that the path ahead of the vehicle is clear of bystanders and obstacles.
- Clean and check operation of the head-light, taillight and brakelight.
- WARNING: Only start your snow-mobile once all components are checked and functionning properly.

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 (2) or three (3) times.

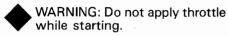
NOTE: Primer is not necessary when the engine is warm.

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 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.



Before Riding

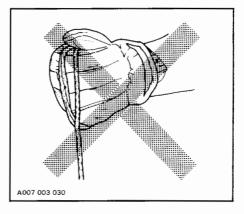
Check operation of the emergency cutout switch and tether switch. Restart engine. WARNING: If engine does not shut-off when applying the emergency cut-out switch and or when pulling the tether cut-out cap, stop the engine by turning off the ignition key. Do not operate the vehicle further, see an authorized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

Allow the engine to warm before operating at full throttle.

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.

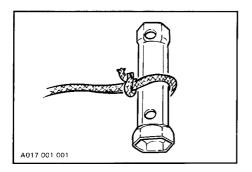
WARNING: Do not wind starting rope around your hand. Hold rope by the handle only.

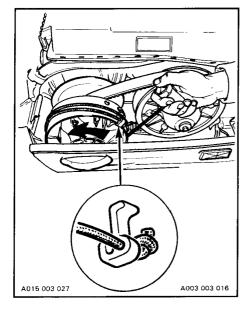


WARNING: Do not start the vehicle by the drive pulley unless it is a true emergency situation. Have the vehicle repaired as soon as possible.

Attach emergency rope to any available handle and to the starter clip supplied in the tool box. Wind the rope thightly around drive pulley.

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

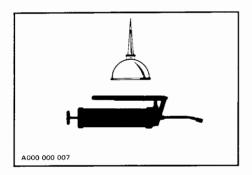




Start engine as per usual manual starting.

WARNING: When starting the vehicle in an emergency situation by the 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 the snow-mobile is no exception. A weekly vehicle inspection contributes to the life span of the snowmobile.

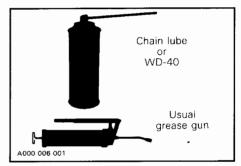
It is recommended that the steering system and suspension be lubricated monthly or every forty (40) hours of operation. If the vehicle is operated in wet snow or in severe conditions these items should be lubricated more frequently.

Penetrating lubricant is recommanded on ball joints and moving parts. May be used either:

- chain lube from BARDAHL (BCS 362, dry)
- WD-40

Other grease fittings require low temperature grease (P/N 413 7061 00) using usual grease gun.

The following symbols will be used to show what type of lubricant should be used at the suitable locations.



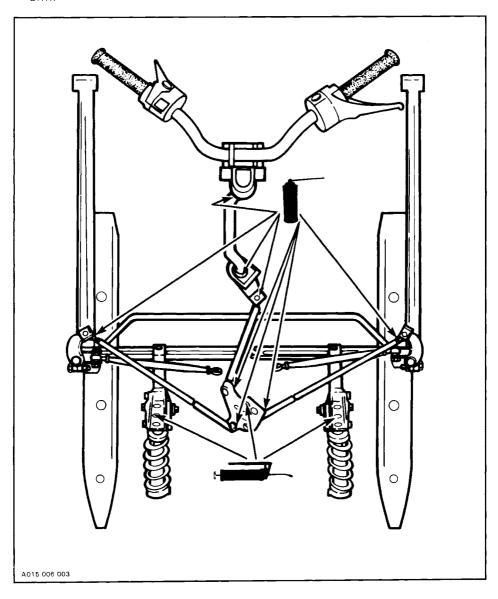
NOTE: When lubricating grease fittings, grease until grease appears at joints. Always use low temperature grease (P/N 413 7061 00).

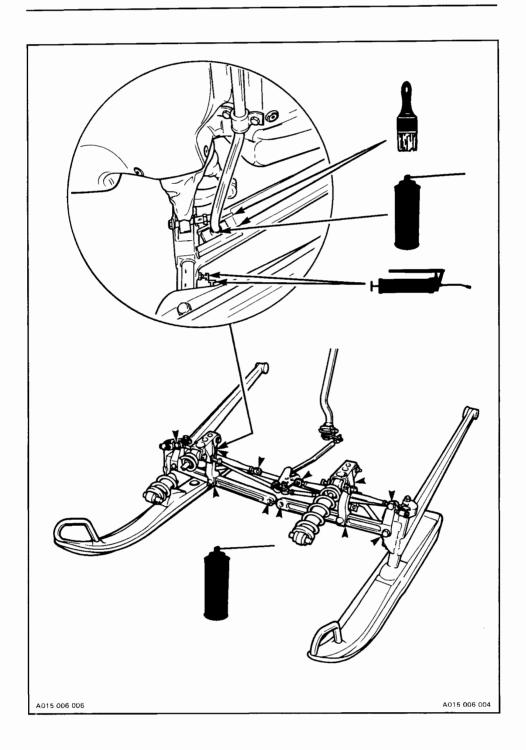
WARNING: Only perform such procedures as detailed in this manual. It is recommended that dealer assistance be periodically obtained on other components/systems not covered in this manual. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.

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

Steering and Front Suspension Mechanism

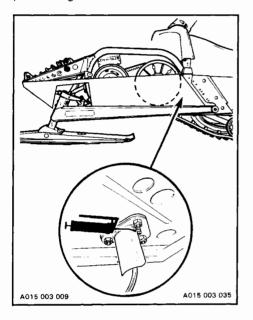
- Lubricate upper and lower control arms and tie rod ends.
- Grease ski legs, ski pivots and idler arm
- Coat stabilizer sliders with grease and oil their ball joints.
 - NOTE: There are thirty-three (33) lubrication points.





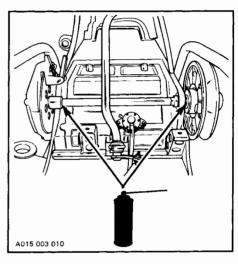
Drive Axle

Lubricate at grease fitting using low temperature grease.

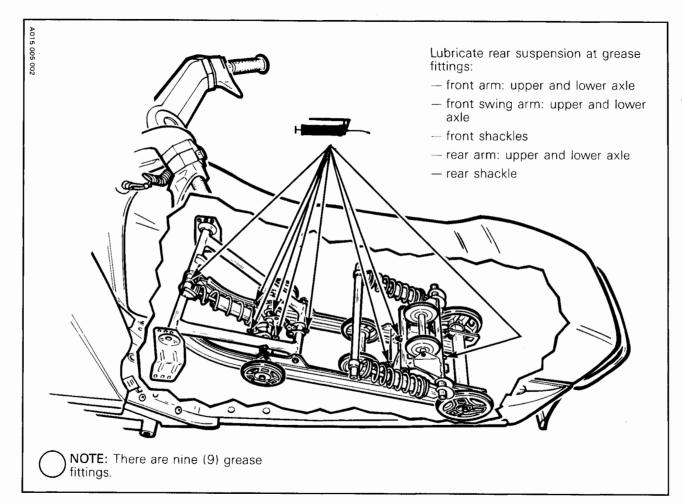


Countershaft (Disk Brake & Driven Pulley)

For proper operation, disk and driven pulley must slide freely on countershaft. So lubricate slightly and evenly.

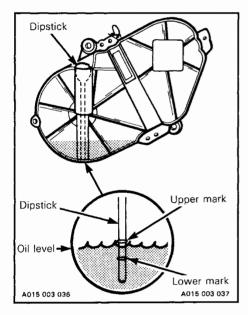


CAUTION: Do not lubricate excessively as the lubricant could contact and soil brake pads and/or drive belt.



Chaincase Oil Level

Check the oil level by removing the oil filler cap. Oil level must be within lower and upper mark on dipstick with dipstick unscrewed. Refill as required using BOMBARDIER chaincase oil (P/N 413 8019 00 - 250 ml).

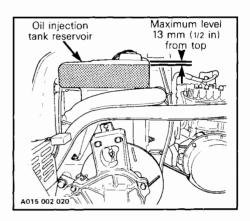


NOTE: The chaincase oil capacity is approximately 256 ml (9 imp. oz).

Oil Injection System

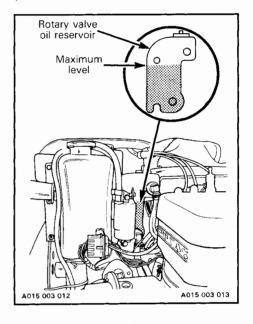
Always maintain a sufficient amount of BOMBARDIER Snowmobile Injection Oil in the injection oil tank.

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



Rotary Valve System

Check reservoir oil level frequently. Level should be kept as shown in plastic reservoir. If necessary replenish to maximum oil level line using BOMBARDIER Snowmobile Injection Oil available from your authorized dealer.



MAINTENANCE

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

WARNING: Only perform such procedures as detailed in this manual. It is recommended that an authorized 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.

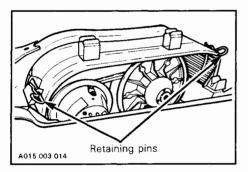
SERVICE AND MAINTENANCE CHART	Weekly or every 240 km (150 mi)	Monthly or every 800 km (500 mi)	Once a year or every 3200 km (2000 mi)	Refer to page
Drive belt condition				31
Brake condition				31
Brake adjustment				31
Spark plugs				32
Suspension condition				32
Suspension adjustments		(as red	quired)	32
Track condition				35
Track tension and alignment		(as red	quired)	35
Drive pulley				36
Drive chain tension				37
Steering and front suspension mechanism				38
Ski and runner wear and condition				38
Steering and ski legs camber adjustment				38
Muffler attachment				38
Engine head nuts				38
Engine mount screws				38
Air filter cleaning				39
Carburetor adjustment (cable inspection)				39
Injection oil filter condition				40
Oil injection pump adjustment				40
Cooling system				40
Headlamp beam aiming				41
General inspection				42

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

Belt Guard Removal

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

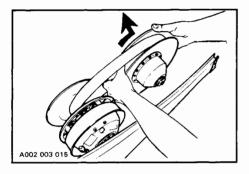
- 1. Tilt the hood.
- 2. Pull out both retaining pins.
- 3. Lift and remove the belt guard.



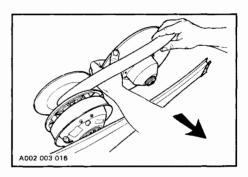
Drive Belt Removal and Installation

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

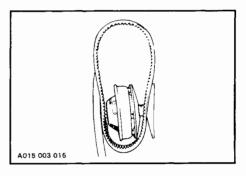
- 1. Tilt the hood and remove the belt guard.
- Open the driven pulley by twisting and pushing the sliding half. Hold in fully open position.



Slip the belt over the top edge of the fixed half.

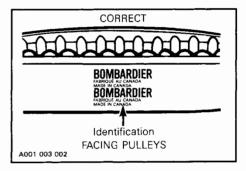


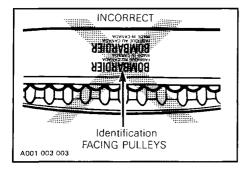
 Slip the belt out from the drive pulley and remove completely from the vehicle.



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

The maximum drive belt life span is obtained when the belt has the proper rotation direction. Install it so the printed information on the belt can be read when facing pulleys.





CAUTION: Do not force or use tools to pry the belt into place, as 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 R.P.M. with frozen track, fast starts without warm-up period, burred sheave, oil on belt or distorted spare belt. Contact your authorized dealer.

Check the drive belt width. Replace it if less than 31.9 mm (1 1/4 in).

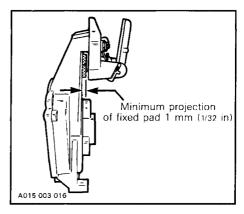
New Drive Belt

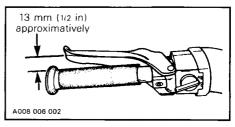
When installing a new drive belt, breakin period of 25 km (15 miles) is strongly recommended.

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.

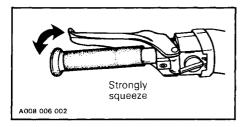
WARNING: Brake pads must be replaced when fixed pad projects only 1 mm (1/32 in) from caliper. Replacement must be performed by an authorized dealer.



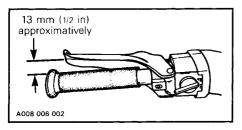


Brake Adjustment

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 self 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 your servicing dealer.

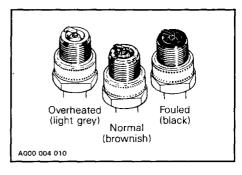


Spark Plugs

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.



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 in). Reinstall plugs and connect wires.

Suspension Condition

Check all front suspension components for excessive play or wear including ball joints, control arms and links etc.

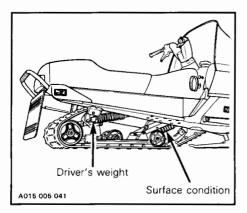
Visually inspect all rear suspension components including slider shoes, springs, wheels, etc.

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

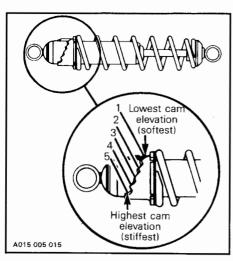
Suspension Adjustments Shock Absorber Spring Preload

The rear suspension has two (2) preload adjustments:

- The front shock spring for surface condition.
- The rear shock spring (twin shocks) for driver's weight.



Each shock absorber has a five (5) position cam located at the bottom of the shock. If a stiffer or softer action is desired, the spring preload may be increased or decreased by adjusting the cam.



FRONT SPRING

NOTE: The front shock absorber of the rear suspension should be removed to adjust spring collar.

When the front spring cam is 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.

NOTE: For deep snow condition or hill climbing, it is recommended to place the front spring cam at position four (4) or five (5). For hard surface riding place it at position one (1), two (2) or three (3). Also, the rear bumper position can be changed to give a more accessible grip (refer to "Control Instruments").

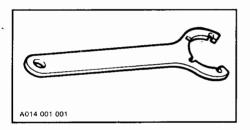
REAR SPRING

Driver's kg		Came position
from	up to	position
64 (140) 73 (160) 82 (180)	64 (140) 73 (160) 82 (180) —	1 2 3 4 — 5

To adjust, use the adjustment key supplied. Spray some WD-40 between spring and spring collar.

CAUTION: There must be two (2) thrust washers between spring and spring collar. If any is missing, do not attempt to adjust spring collar and see an authorized dealer for installation.

Fit the key on the shock spring collar and turn clockwise for stiffness or counterclockwise for softness.



To summarize, the choice of cam positions depends on operator's weight, riding speed and field condition.

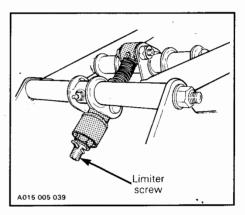
Cam position	1	2	3	4	5
Operator's weight	Light			> ⊦	Heavy
Riding speed	Low -			-	High
Field condition	Flat -			→ B	umpy

A slight suspension bottoming occuring in the worst riding conditions indicates to the operator a good choice of preload adjustment (cam position).

Optional springs with different rates are available for your convenience. Ask an authorized dealer for information.

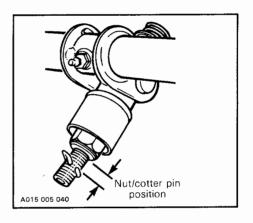
Limiter Screw

The function of the suspension limiter screw is to control the transfer of vehicle weight during acceleration. The closer the nut from the cotter pin, the more the weight will be transferred to the track to provide a better traction. The farther the nut from the cotter pin, the lesser the weight will be transferred to the track, thus maintaining a more positive direction. Limiter screw allows to adjust weight transfer according to driver's requirement, field and/or snow conditions.



As a guideline here are the preferred positions:

Snow condition	Nut position related to cotter pin
Hill climbing	Close
Hard surface	Farther



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.

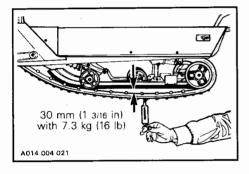
WARNING: Do not operate a snowmobile with a cut, torn or damaged track.

Track Tension and Alignment

Tension:

NOTE: Ride the vehicle in snow about fifteen (15) - twenty (20) minutes prior to adjusting track tension.

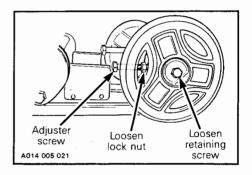
Lift the rear of vehicle and support with a mechanical stand. Allow the suspension to extend normally and check gap half-way of slider shoe. The gap should be 30 mm (1 3/16 in) between the slider shoe and the bottom inside of the track when applying a downward pull of 7.3 kg (16 lb). If the track tension 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 screws and the adjuster bolt lock nuts, then loosen or tighten the adjuster screws located on the inner side of the rear idler wheels. If correct tension is unattainable, contact an authorized dealer.

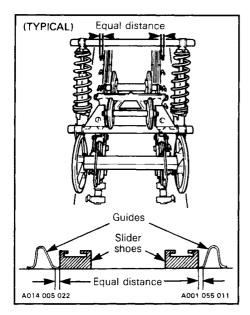
NOTE: Torque retaining screw to 48 N•m (35 lbf•ft) after adjustment.



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

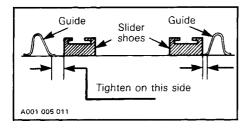
Alignment

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.



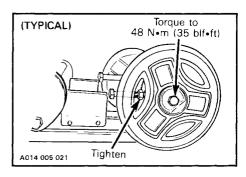
WARNING: Before checking track alignment, ensure that the track is free of particles which could be thrown out while it is rotating. Keep hands, tools, feet and clothing clear of track. Ensure no-one is standing in close proximity to the vehicle.

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



Tighten lock nuts and the idler wheel retaining screws.

NOTE: Torque retaining screw to 48 N•m (35 lbf•ft) after adjustment.



Restart engine, rotate track **slowly** and recheck alignment.

Drive Pulley

These vehicles are 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 at position three (3) 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 resets 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 one (1) to six (6). Note that for casting purposes numeral one (1) appears as a dot. Each of these positions provides an increase or a 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 2	7800 R.P.M.
Position no 3	8000 R.P.M. (standard position)
Position no 4	8200 R.P.M.

Positions two (2) and four (4) 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 Formula PLUS, occurs at 8000 R.P.M. while the maximum permissible engine speed (red line) is 9000 R.P.M.

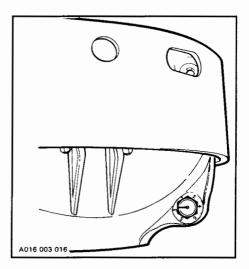
Adjustment Procedure

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.



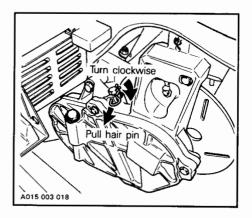
WARNING: Always retorque locking nut to 10 N•m (89 lbf•in).



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

Drive Chain Tensioner

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



This initial adjustment should provide 3-5 mm (1/8 - 13/64 in) free-play when measured at the outer circumference of the brake disk.

CAUTION: Free-play must not exceed 5 mm (13/64 in), readjust if necessary.

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

Steering and Front Suspension Mechanism

Inspect steering and front suspension mechanism tightness of components (steering arms control arms and links, tie rods, ball joints, ski coupler bolts etc.). If necessary replace or retighten.

Check the condition of the skis and the ski runners. Replace if worn.

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

Steering and Ski Legs Camber Adjustment

There are accurate adjustments to perform on this vehicle and they should be done only by an authorized dealer.

Muffler Attachment

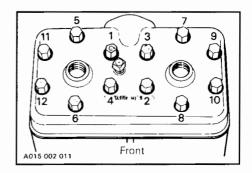
The engine/exhaust system parts are vital toward efficient muffler function. Check all attachments and muffler ball joint. Replace the springs and/or tighten if necessary.

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

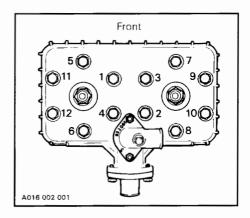
Engine Head Nuts

With the ENGINE COLD, check that the engine head nuts are tight and equally torqued to 20 N•m (15 lbf•ft). Respect tightening sequence as follows:

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

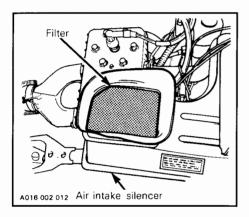
Engine Mount Screws

Check the engine mount screws for tightness. Retighten if necessary to 25 N•m (18 lbf•ft).

Air Filter

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

Lift hood and remove air filter from air intake silencer.



Clean the filter by shaking the snow out of it, dry it out.

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

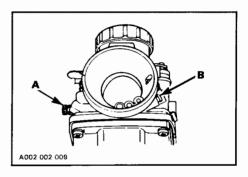
CAUTION: These vehicles have been calibrated with the filter installed. Operating the vehicle without it will cause damage to the engine.

Reinstall properly.

Carburetor Adjustment

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

CAUTION: Make sure both carburetors start to operate simultaneously.



A) Air Screw Adjustment

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

467 engine type: 1 1/2 turn 537 engine type: 1 turn

B) Idle Speed Adjustment

Turn 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 idle speed to 1800-2000 R.P.M. by turning the idle speed screw clockwise or counterclockwise.

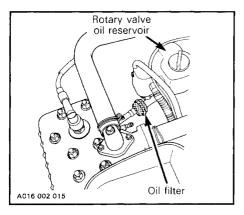
CAUTION: Do not attempt to set the idle speed by using the air screw. Severe engine damage can occur. If idle speed is unattainable contact your authorized dealer.

High Altitude Kit

Snowmobiles used in high altitude areas (1200 m (4000 ft) and up) are subjected to lose power, about 3% per 300 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 your dealer replace the injection oil filter and that he verifies the oil flow of the injection pump.

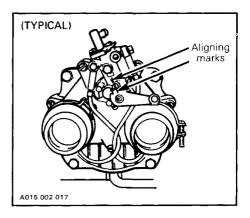
Injection Pump Adjustment

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 your authorized dealer.



Cooling System

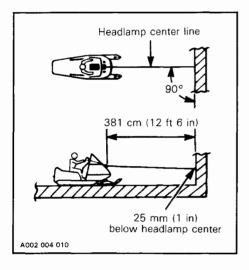
Check condition of hoses and clamps tightness. Using a hydrometer check that the antifreeze solution is strong enough for the temperature in which the vehicle is operated.

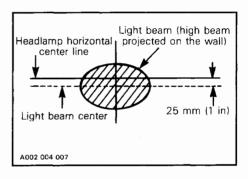
NOTE: Should the coolant temperature raise above recommended range 50 100°C (120 212°F) hose off grime from the heat exchanger (underneath the frame above the track).

Headlamp Beam Aiming

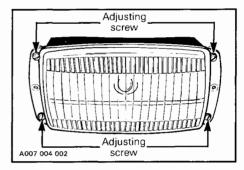
The angle of the headlamp beam has been pre-adjusted prior to delivery. Should you wish readjustment, place the vehicle on a flat surface 381 cm (12 ft 6 in) from a wall or screen.

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 in) below horizontal line of headlamp height.





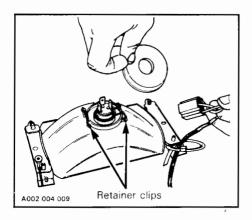
To adjust, remove the four (4) caps, turn upper or lower adjusting screws to obtain desired beam position.



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. Grease at all grease fittings. Wipe off surplus. Replace worn slider shoes.

Skis

Wash or brush all dirt or rust accumulation from the skis and springs. Grease at all grease fittings.

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

Controls

Lubricate the steering mechanism. Inspect all components for tightness, (spring coupler bolts, 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). To drain, remove the chaincase cover.

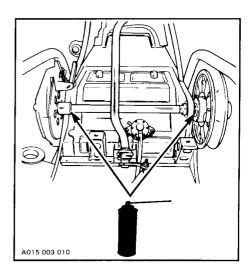
NOTE: Chaincase oil capacity is about 256 ml (9 fl. oz).

Drive Pulley

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

Countershaft (Disk Brake & Driven Pulley)

For proper operation, disk and driven pulley must slide freely on countershaft. So lubricate slightly and evenly.



CAUTION: Do not lubricate excessively as the lubricant could contact and soil brake pads and/or drive belt.

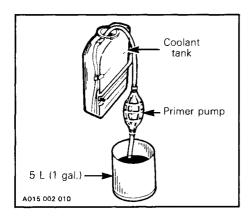
Cooling System

The engine cooling system should be drained and refilled with a new coolant mixture before each storage period.

WARNING: Never drain or refill the cooling system when engine is hot.

To drain the cooling system, siphon the coolant mixture from the coolant tank, using a primer pump and a length of plastic hose and steel tubing inserted as deep as possible into the lower hose of the tank

WARNING: Use PRIMER PUMP to siphon the coolant mixture. Do not siphon with your mouth. The coolant mixture is poison and can be fatal is swallowed.



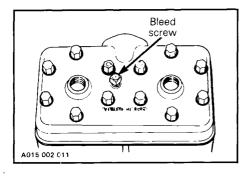
When the coolant level is low enough, remove the engine bleed screw and lift the rear of vehicle to drain the heat exchangers.

CAUTION: To prevent rust formation in the cooling system, always replenish the system with the recommended solution (60% antifreeze 40% water). Pure antifreeze without water produces premature freezing. Always use ethylene-glycol antifreeze containing corrosion inhibitors specifically recommended for aluminum engines.

To refill the cooling system:

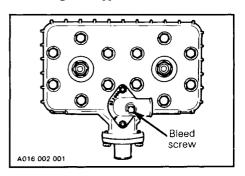
Put back the rear of vehicle on the ground.

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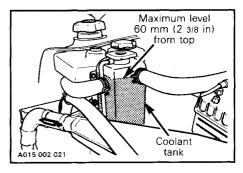


- Refill tank slowly until coolant overfills at bleed hole.
- Reinstall bleed screw.

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Continue to pour the coolant in the tank until level reaches 60 mm (2 3/8 in) below top of radiator (engine cold).



With the coolant tank cap still removed start the engine and let it warm up to reach its operating temperature and thermostat open. Allow it running a few minutes more.

Stop engine and check coolant freezing point with a suitable tester. Coolant must be strong enough for the temperature in which the vehicle is operated.

Check coolant level and add liquid if required. Put back the tank cap.

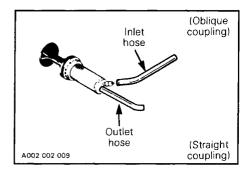
WARNING: Before removing the cap place a cloth over the coolant tank and release the cap to the first step to release the pressure. Loss of fluid and possibility of severe burns could occur, if this notice is disregarded.

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:

- Lift the rear of the vehicle and support it off the ground.
- WARNING: Ensure the track is free of alls 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.
- 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.
- 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). Do not run engine during storage period.
- The engine stopped, remove the sparks plugs and pour approximately 85 ml (3 fl. oz imp.) 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.

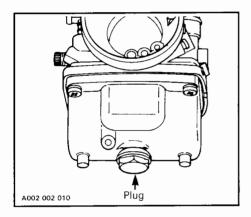
Fuel Tank and Carburetors

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.

Carburetors 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 on each carburetor. Drain carburetor.



Reinstall plug.

Check all fuel lines, replace if necessary.

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. Never clean RIM Metton hood with cleaners or products containing chlorine. 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 bare 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.

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 authorized 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	TO BE PERFORMED BY DEALER	•	
PREPARATION CHART	TO BE PERFORMED BY OWNER	0	
Change spark plugs*		0	
Check chaincase oil level		0	
Check drive chain tension		0	
Check rotary valve oil level		0	
Replace fuel filter (filter is located inside f	uel tank)	0	
Clean air filter		0	
Refill gas tank		0	
Check track condition, tension and alignm	ent	0	
Check and lubricate suspension			
Inspect drive belt and install		0	
Check throttle cable for free operation			
Check steering, ski legs camber adjustments and ski runners condition			
Check electrical wiring		0	
Inspect condition of starting rope			
Check tightness of all bolts, nuts and links			
Check coolant condition and level		•	
Inspect seals for possible cuts or leaks	-	0	
Inspect brake condition and operation	Inspect brake condition and operation		
Replace injection oil filter			
Refill injection oil tank			
Adjust oil injection pump			
Set engine timing			
Check pulleys, verify components and clean			
Adjust carburetors			

*NOTE: Before installing new spark plugs, it is suggested to burn excess storage oil by starting the engine, using the old spark plugs. Only perform this operation 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.
with difficulty.	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.
	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	Oil Injection Pump system: See an authorized dealer for pump adjustment.
		Gas and Oil mixed in tank: Drain the fuel tank and refill with the correct gas/oil mixture.
	7. Engine timing	Engine timing may be incorrect or out of adjustment. Contact your authorized dealer.

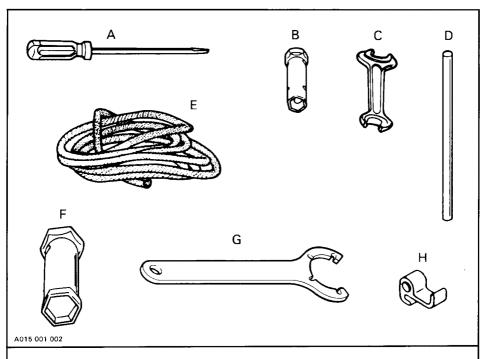
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SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
	8. Engine compression	Running with a lean fuel mixture may produce excessive engine wear resulting in poor engine compression. If this occurs, contact your authorized dealer at once.
Engine does not turn manually.	1. Seized engine	In the case of a seized engine contact your authorized dealer.
Engine lacks acceleration or power.	Fouled or defective spark plug	Check item 3 of ''Engine turns over but fails to start or starts with difficulty''.
	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 dif- ficulty".
	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



- A. Screwdriver
- B. Socket 10/13 mm
- C. Open End Wrench 10/13 mm
- D. Socket Wrench Handle
- E. Starter Rope

- F. Socket 21/26 mm
- G. Spring Collar Adjustment Key
- H. Emergency Starter Clip

SPECIFICATIONS_

ENGINE		
Туре	467	467
No of cylinders	2	2
Bore	69.5 mm (2.736 in)	69.5 mm (2.736 in)
Stroke	61.0 mm (2.402 in)	61.0 mm (2.402 in)
	462.8 cm ³ (28.24 in ³)	462.8 cm ³ (28.24 in ³)
Displacement	7.5:1	7.5:1
Compression ratio (corrected)	7.5:1 7000 R.P.M.	7.000 R.P.M.
Maximum horsepower R.P.M.*		
Carburetor type	PTO: Mikuni VM 34-352 MAG: Mikuni VM 34-353	Mikuni VM 34-352 Mikuni VM 34-353
Carburetor adjustment:	WAG. WIRDH VW 54 555	William VIII O' 550
— air screw	1 1/2 turn	1 1/2 turn
- idle speed	1800-2000 R.P.M.	1800-2000 R.P.M.
Rotary valve oil reservoir:		
- SI	455 ml	455 ml
- Imp.	16 oz	16 oz
Cooling system capacity:		- -
— SI	4.2 L	4.2 L
— Imp.	148 oz	148 oz
– imp. – U.S.	142 oz	142 oz
	60/40	60/40
Antifreeze/water mixture (% by volume) Thermostat	43°C (110°F)	43°C (110°F)
	90 kPa (13 lb/in²)	90 kPa (13 lb/in²)
Radiator pressure cap	90 KFa (13 IB/III-)	90 KFa (15 lb/ll1)
Torque:	M8: 20 N•m (15 lbf•ft)	M8: 20 N•m (15 lbf•ft)
 engine head nuts 		
 crankcase nuts 	M6: 9 N•m (80 lbf•in)	M6: 9 N•m (80 lbf•in M8: 20 N•m (15 lbf•ft)
	M8: 20 N•m (15 lbf•ft)	
 magneto ring nut 	M22: 100 N•m (74 lbf•ft)	M22: 100 N•m (74 lbf•ft)
 crankcase/engine support screws 	M8: 25 N•m (18 lbf•ft)	M8: 25 N•m (18 lbf•ft)
exhaust manifold bolts	M8: 21 N•m (15 lbf•ft)	M8: 21 N•m (15 lbf•ft)
CHASSIS		
Overall length	271.8 cm (107 in)	271.8 cm (107 in)
Overall width	104.1 cm (41 in)	104.1 cm (41 in)
Overall height	99 cm (39 in)	99 cm (39 in)
Ski stance (center to center)	92.1 cm (36.25 in)	92.1 cm (36.25 in)
Torque:		
- steering arm/ski leg bolt	25 N•m (18 lbf•ft)	25 N•m (18 lbf•ft)
- steering column/handlebar	26 N•m (19 lbf•ft)	26 N+m (19 lbf+ft)
Weight	222.3 kg (490 lb)	240 kg (529 lb)
Bearing area	5968 cm ² (925 in ²)	7626 cm ² (1182 in ²)
Ground pressure	3.72 kPa (.530 lb/in²)	3.15 kPa (.448 lb/in ²)
BRAKE		
Type	Disc, self-adj	ustina
Lining minimum thickness	•	-
g	Fixed pad must projects 1 mm (1/32 in) minimum from caliber.	

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.

	FORMULA MX	FORMULA MX LT
POWER TRAIN		
Track:		
width	38.1 cm (15 in)	41.9 cm (16.5 in)
length	290 cm (114 in)	315 cm (124 in)
— tension	30 mm (1 3/16 in) gap l bottom inside of track wl pull of 7.3 kg (16	
alignment	Equal distance between and slide	
Standard gear ratio	22/44	22/44
Drive belt: - number	414 5823 00	414 5823 00
- number - maximum width	35 mm (1 3/8 in)	35 mm (1 3/8 in)
- maximum width	32 mm (1 1/4 in)	32 mm (1 3/8 iii)
Chaincase oil	256 ml (9 oz)	256 ml (9 oz)
ELECTRICAL		
Lighting system (output)	12 V 160 W	12 V 160 W
Bulb:	60/60 W	60/60 W
- headlamp	5/21 W	5/21 W
tail/stopspeedometer	5/2/ W	5/21 W
speedometer tachometer	5 W	5 W
electric fuel level gauge	2 W	2 W
temperature gauge	2 W	2 W
Fuse:		
- tachometer	0.1 A	0.1 A
Spark plug:		
- type	NGK BR9ES	NGK BR9ES
— gap	0.4 mm (.016 in)	0.4 mm (.016 in)
Ignition timing:		
- timing mark (B.T.D.C.)	2.51 mm (.099 in)	2.51 mm (.099 in)
stroboscopic timing	6000 R.P.M.	6000 R.P.M.
FUEL		
Gas type	Regular	Regular
Fuel tank capacity:		40.01
- SI	40.9 L	40.9 L
— lmp.	9 gal.	9 gal.
— U.S.	10.8 gal.	10.8 gal.
Injection Oil	BOMBARDIER Snow	mobile Injection Oil
Tank capacity:		
- \$I	2.9 L	2.9 L
— lmp.	102 oz	102 oz
U.S.	98 oz	98 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.

	FORMULA PLUS
ENGINE	
Type	537
No of cylinders	2
Bore	72.0 mm (2.835 in)
Stroke	64.0 mm (2.520 in)
Displacement	521.2 cm ³ (31.81 in ³)
Compression ratio (corrected)	6.5:1
Maximum horsepower R.P.M.*	8000 R.P.M.
Carburetor type	PTO: Mikuni VM 40-29
,,	MAG: Mikuni VM 40-30
Carburetor adjustment:	,
- air screw	1 turn
 idle speed 	1800-2000 R.P.M.
Rotary valve oil reservoir:	
– si	455 ml
Imp.	16 oz
Cooling system capacity:	
- SI	4.2 L
Imp.	148 oz
– U.S.	142 oz
Antifreeze/water mixture (% by volume)	60/40
Thermostat	42°C (107°F)
Radiator pressure cap	90 kPa (13 lb/in²)
Torque:	
 engine head nuts 	M8: 20 N•m (15 lbf•ft)
 crankcase nuts 	M6: 9 N•m (80 lbf•in)
	M8: 20 N•m (15 lbf•ft)
 magneto ring nut 	M22: 100 N•m (74 lbf•ft)
 crankcase/engine support screws 	M8: 25 N+m (18 lbf+ft)
exhaust manifold bolts	M8: 21 N•m (15 lbf•ft)
CHASSIS	
Overall length	271.8 cm (107 in)
Overall width	104.1 cm (41 in)
Overall height	99 cm (39 in)
Ski stance (center to center)	92.1 cm (36.25 in)
Torque:	
 Steering arm/ski leg bolt 	25 N•m (18 lbf•ft)
 steering column/handlebar 	26 N•m (19 lbf•ft)
Weight	226.8 kg (500 lb)
Bearing area	6348 cm ² (984 in ²)
Ground pressure	3.57 kPa (.508 lb/in²)
BRAKE	
Туре	Disc, self-adjusting
Lining minimum thickness	Fixed pad must projects 1 mm (1/32 in) from caliper.

N.A.: Not applicable

Control lever adjustment

13 mm (1/2 in) minimum distance from handlebar grip when fully applied.

^{*}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.

FORMULA PLUS POWER TRAIN Track: - width 41.9 cm (16.5 in) - length 290 cm (114 in) - tension 30 mm (1 3/16 in) gap between slider shoe and bottom inside of track when exerting a downward pull of 7.3 kg (lb) to the track. - alignment Equal distance between edges of track guides and slider shoes. 20/38 Standard gear ratio Drive belt: - number 414 5823 00 (1 3/8 in) - maximum width 35 mm minimum width 32 mm (1 1/4 in) Chaincase oil 256 ml (9 oz) **ELECTRICAL** 12 V 160 W Lighting system (output) Bulb: 60/55 W HAL. headlamp - tail/stop 5/21 W 5 W - speedometer 5 W tachometer 2 W - electric fuel level gauge 2 W temperature gauge Fuse: 0.1 A tachometer Spark plug: NGK BR9ES type 0.4 mm (.016 in) gap lanition timing: - timing mark (B.T.D.C.) 1.75 mm (.69 in) 6000 R.P.M. stroboscopic timing **FUEL** Premium (90 octane) Gas type Fuel tank capacity: 40.9 L - SI Imp. gal. 10.8 gal. U.S. BOMBARDIER Snowmobile Injection Oil Injection Oil Tank capacity: — SI 2.9 L Imp. 102 oz -- U.S. 98 ΟZ

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.

	Ε	BASE UNITS	
DESCRIPTION		UNIT	SYMBOL
length		meter	m
mass		kilogram	kg
force		Newton	Ň
liquid		liter	
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
	CONVE	RSION FACTORS	
TO CONVERT		TO t	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		m!	28.41
U.S. oz		ml	29.57
imp. gal.		1	4.55
U.S. gal.		1	3.79
oz lb		g	28.35
lbf		kg N	0.45
lbf•in		N N•m	4.4 0.11
lbf•ft		N•m N•m	0.11 1.36
lbf/in ²		M•m kPa	1.30 6.89
Fahrenheit		Celsius	(°F - 32) ÷ 1.8

^{*}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.

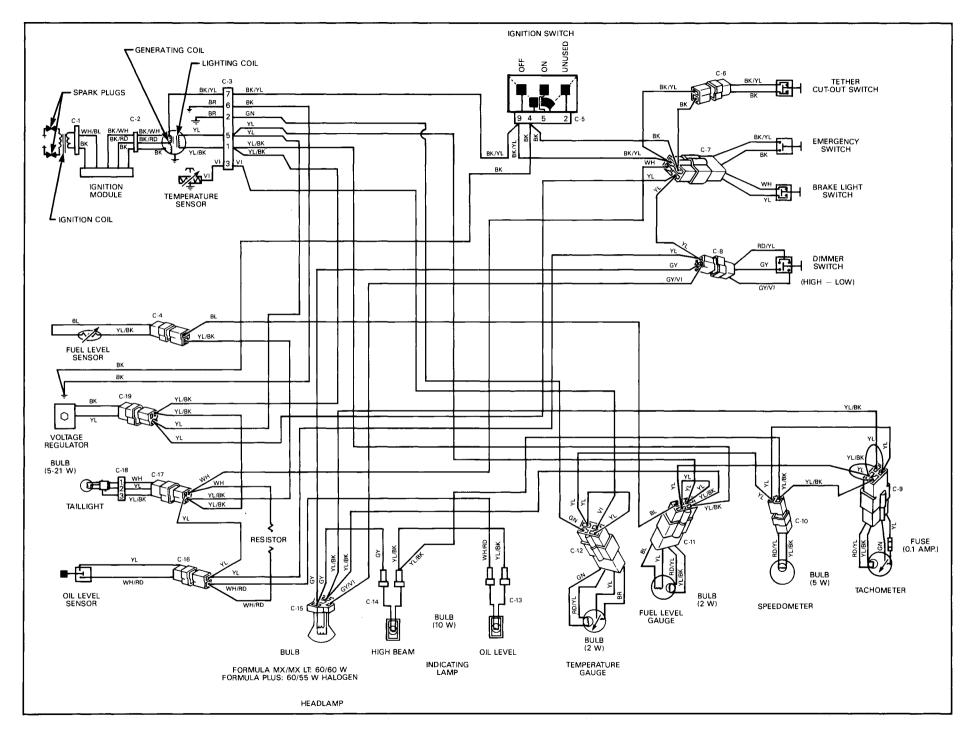
WIRING DIAGRAM

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

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

LOCATION OF CONNECTOR HOUSINGS (REFER TO DIAGRAM)

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



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 A	DDRESS		
VEHICLE IDENTIFICA	ATION 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 O	WNERSHIP		
VEHICLE IDENTIFICA	ATION NUMBER		
The ownership of	this vehicle is trai	nsferred	
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 2L0

STAMP

BOMBARDIER INC.

ATT.: WARRANTY DEPARTMENT VALCOURT (QUEBEC)
CANADA JOE 2L0