



Blizzard[®]

5500

**1979
OPERATOR
MANUAL**



* Trademarks of Bombardier Limited

model _____

V.I.N. _____

purchase date _____

warranty expiry date _____

DEALER IMPRINT AREA

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TECHNICAL INFORMATION CENTRE
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BOMBARDIER LIMITED
VALCOURT, QUÉBEC
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ELAN	T'NT	ELITE
GRAND-PRIX		

FOREWORD

CONGRATULATIONS... You are now the proud owner of a new 1979 snowmobile. This vehicle is the result on incomparable teamwork between Bombardier designers, engineers and technicians. Consequently, this vehicle is designed and engineered with safety, handling, comfort and quietness in mind.

The information has been prepared to acquaint the owner/operator of a new snowmobile with the various vehicle controls, owner-related maintenance, and safe operating instructions. This is accomplished via 'The Snowmobile Safety Handbook Booklet' and the 'Operator Manual'. Each is inseparable toward 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 selling dealer.

This manual emphasizes particular information denoted by the wording and symbols:



WARNING: Identifies an instruction which, if not followed, could cause personal injury.



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.

Ride safe and have fun.

Recreational Products Group
Bombardier Limited,
Valcourt, Quebec, Canada, J0E 2L0

PLEASE ENSURE YOUR WARRANTY BY REGISTERING YOUR SNOWMOBILE THROUGH YOUR DEALER, AT THE FACTORY.

SAFETY IN MAINTENANCE

Observe the following precautions:

- Throttle mechanism should be checked for free movement before starting engine.
- Engine should be running only when pulley guard is secured in place.
- Never run engine without drive belt installed. Running an unloaded engine can prove to be dangerous.
- Never run engine when the track of the vehicle is raised off the ground.
- It can be dangerous to run engine with the cab removed.
- Gasoline is flammable and explosive under certain conditions. Always perform procedures 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.
- 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.
- 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.
- Only perform procedures as detailed in this manual. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.
- Installation of other than standard equipment, including ski-spreaders, bumpers, pack racks, etc., could severely affect the stability and safety of your vehicle. Avoid adding on accessories that alter the basic vehicle configuration.
- The snowmobile engine can be stopped by activating the emergency cut-out switch or turning off the key.
- This vehicle is designed for the driver only. No provisions have been made for a passenger.

Please read and understand all other warnings contained elsewhere.

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

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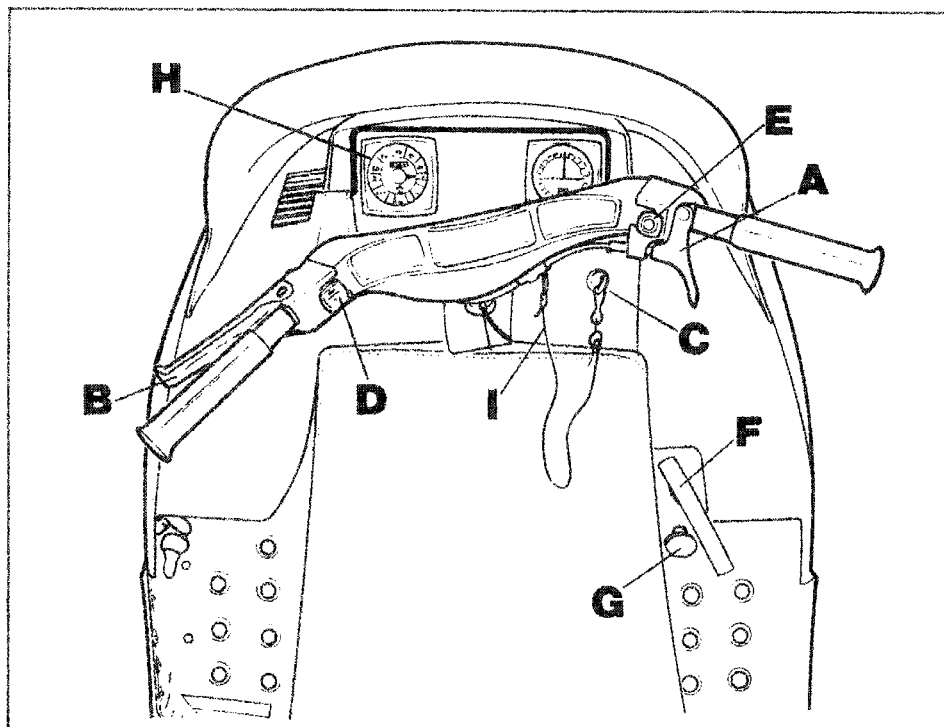
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CONTROLS/INSTRUMENTS



- A) Throttle Control Lever
- B) Brake Control Lever
- C) Ignition/Light Switch
- D) Headlamp Dimmer Switch
- E) Emergency Cut-Out Switch

- F) Manual Starter Handle
- G) Primer
- H) Speedometer
- I) Tether Cut-Out Switch

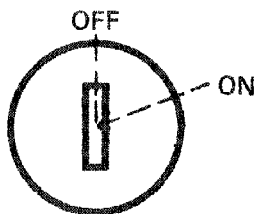
A) Throttle Control Lever

Located on 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 Control 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.

C) Ignition/Light Switch



Key operated, 2 position switch. To start engine, first turn key clockwise to ON position. To **stop engine**, turn key counter-clockwise to OFF position.

The lights are automatically ON whenever the engine is running.

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 depress switch.

E) Emergency Cut-Out Switch

A push button switch located on right side of handlebar. To stop the engine in an emergency, press button down into **lower** position.

Before re-starting engine always depress button into released **upper** 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 button has been used in an emergency situation the source of malfunction should be determined and corrected before re-starting engine.

F) Manual Starting Handle

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

G) Primer

A push-pull button. 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.

H) Speedometer

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

I) Tether Cut-Out Switch

Attach tether cord to wrist or other convenient location then snap tether cut-out cap over receptacle before starting engine.

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

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

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

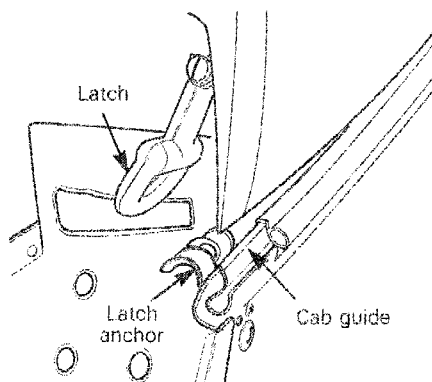
J) Cab Opening

Pull down the latch to unhook the cab from the anchor.

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

◆ **WARNING:** It is dangerous to run an engine with the cab open or removed. Personal injury could result.

▼ **CAUTION:** Prior to re-securing the cab latch, position the bottom edge of the cab into the cab guide located on each side of the frame.



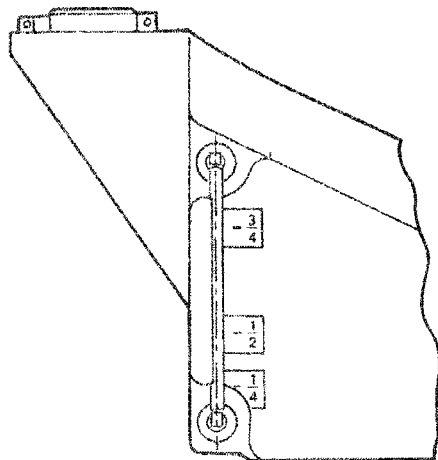
BREAK-IN PERIOD

Tool Box

Located under the cab. To gain access, tilt cab. Ideal location for spare plugs, belt, rope, etc.

Fuel Gauge

The fuel gauge is located on the left side of the fuel tank. The gauge functions on the principle of communicating vessels, so the fuel level inside the tank is directly related with the level indicated on the gauge.




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

With Bombardier-Rotax snowmobile engines, a break-in period is required before running the vehicle at full throttle. Engine's manufacturer recommendation is 10 to 15 operating hours. During this period, a richer mixture is needed (i.e. 40 parts of gas for 1 part of 50/1 Bombardier oil). Maximum throttle should not exceed $\frac{3}{4}$, 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.

10-Hour Inspection

As with any precision piece of mechanical equipment, we suggest that after the first 10 hours of operation or 30 days after the purchase, whichever comes first, that your vehicle be checked by your dealer. This inspection will give you the opportunity to discuss the unanswered questions you may have encountered during the first hours of operation. Remember that it is easier to remedy at this time than to allow the snowmobile to operate until a possible failure occurs.

The 10 hours inspection is at the expense of the vehicle owner.

10-HOUR INSPECTION CHECK LIST	
Engine timing	
Fan belt tension	
Spark plug condition	
Carburetor adjustment	
Engine head nuts	
Engine mount nuts	
Muffler attachment	
Chaincase oil level	
Brake operation and lining condition	
Skis alignment (runner condition)	
Pulley alignment and drive belt condition	
Track condition, tension and alignment	
Lubricate (steering)	
Electrical wiring (loose connections, stripped wires, damaged insulation), tighten all loose bolts, nuts and linkage	
Operation of lighting system (HI/LO beam, brake light, etc.). test operation of emergency cut-out switch	

We recommend that you have your dealer sign this inspection.

Date of 10 hour inspection

Dealer signature

FUEL MIXING

Oil must be added to the gasoline in pre-measured amounts then both oil and gasoline should be thoroughly mixed together before fueling the tank.

Recommended Gasoline

The correct gasoline is regular gasoline (not less than 92 octane), available from all service stations.

CAUTION: Never experiment with different fuel or fuel ratios. Never use low lead or non leaded gasoline, naphtha, methanol or similar products.

Recommended Oil

Use concentrated Bombardier snowmobile oil available from your dealer. This type of oil has specially formulated oil bases to meet the lubrication requirements of the Bombardier-Rotax engine.

If Bombardier snowmobile oil is unavailable substitute with a high-quality 2 cycle snowmobile oil. The oil/gas mix must meet the vehicle requirements. See oil manufacturer recommendations on container.

CAUTION: Never use outboard or straight mineral oils.

Fuel Mixture Ratio

The importance of using the correct fuel mixture cannot be overstressed. An incorrect fuel ratio results in serious engine damage. Recommended fuel ratio is 50/1.

SI Measure

500 mL oil to 25 liters = 50/1.

Imperial Measure

1 can 16 oz oil to 5 Imp. gals = 50/1.

or

1 can 500 mL oil to 5 1/2 Imp. gals = 50/1.

U.S. Measure

1 can 12 oz oil to 5 U.S. gals = 50/1.

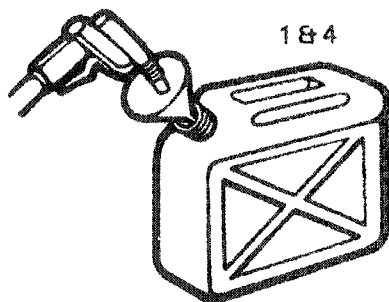
NOTE: To facilitate fuel mixing oil should be kept at room temperature.

Fuel Mixing Procedure

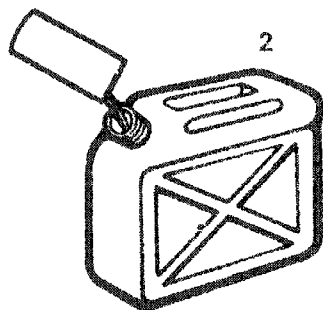
To mix the gasoline and oil always use a separate clean container. Never mix directly in your snowmobile tank. For best results, acquire two containers, either plastic or metal. Draw from one until empty then use the second one.

WARNING: Gasoline is flammable and explosive under certain conditions. Always perform procedures 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. Never add fuel while engine is running. Avoid skin contact with fuel at below freezing temperature.

1. Pour approximately one gallon of gasoline into a clean container.

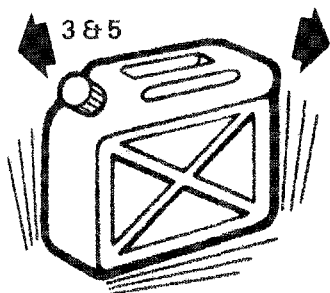


2. Add the fuel amount of oil.



PRE-START CHECK

3. Replace container cap and shake the container thoroughly.



4. Add the remainder of the gasoline.
5. Once again thoroughly agitate the container. Then using a funnel with a fine mesh screen to prevent the entry of water and foreign particles, transfer mixture from container into the snowmobile tank.

◆ **WARNING:** To prevent fuel spillage in the engine compartment, a funnel must always be used when filling the gas tank.

○ **NOTE:** When using pre-mixed fuel, always shake the container thoroughly as the oil has a tendency to settle.

◆ **WARNING:** Never 'top up' gas tank before placing vehicle in a warm area. At certain temperatures, gasoline will expand and overflow.

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 fuel level.
- Check that the skis and the track are not frozen to the ground or snow surface and that the steering operates freely.
- Activate the brake control lever and make sure the brake fully applies before the brake control lever touches the handlebar grip.
- Verify that the path ahead of the vehicle is clear of bystanders and obstacles.

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

STARTING PROCEDURE

Upper position
before starting
engine.

Lower position
to stop engine.



Emergency Cut-Out Button

Manual Starting

1. Insert key in ignition and turn to ON position.
2. Test throttle control lever.
3. Activate the primer (2 to 3 times).

○ **NOTE:** Primer is not necessary when engine is warm.

4. Ensure the tether cut-out cap is in position and that the cord is attached to your clothing. Check that the emergency cut-out button is in the release **upper** position.
5. Grasp manual starter handle firmly and pull slowly until a resistance is felt then pull vigorously. Slowly release rewind starter handle.

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

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

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

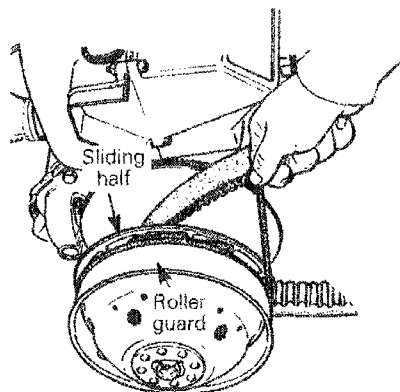
7. Allow the engine to warm before operating at full throttle.

Emergency Starting

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

◆ **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.

Remove pulley guard from vehicle and wind the emergency rope tight around the drive pulley between the sliding half and the roller guard. Start engine as per usual manual starting.



◆ **WARNING:** When starting the vehicle in an emergency situation by the drive pulley, do not make a knot at the end of the emergency rope and do not reinstall the pulley guard.

Drive Tips

▼ **CAUTION:** 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.

LUBRICATION

Frequency

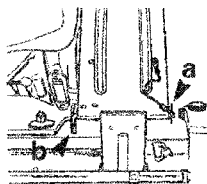
Routine maintenance is necessary for all mechanized products, and the snowmobile is no exception. A weekly vehicle inspection contributes to the life span of the snowmobile as well as retain safe and dependable operation. It is recommended that the steering system and suspension, be lubricated monthly or every 40 hours of operation. If the vehicle is operated in wet snow or in severe conditions these items should be lubricated more frequently.

◆ **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.

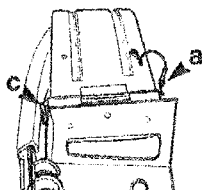
Belt Guard Removal

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

1. Tilt cab, remove both belt guard retaining clip (A).



2. Pull out both B & C retaining pins.



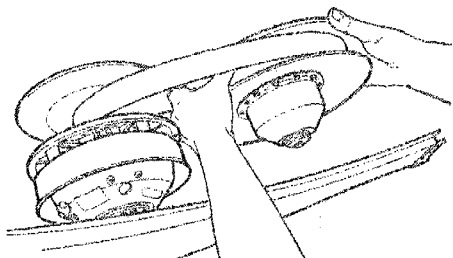
◆ **WARNING:** At the removal or installation of the belt guard front retaining pin be careful not to burn yourself on the exhaust system.

3. Lift and remove the belt guard assembly.

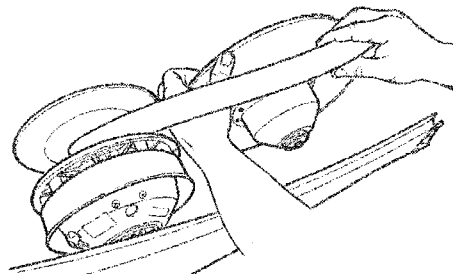
Drive Belt Removal

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

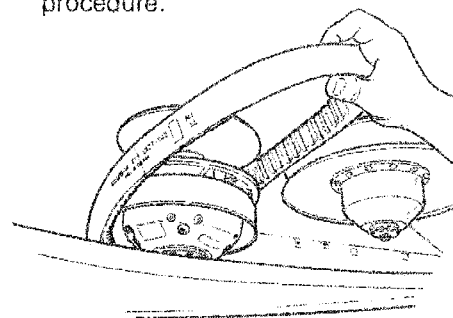
1. Tilt cab and remove belt guard.
2. Open the driven pulley by twisting and pushing the sliding half. Hold in fully open position.



3. Slip slackened belt over the top edge of the sliding half.



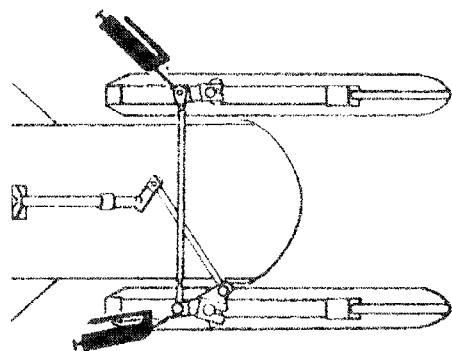
4. Slip the belt out from the drive pulley and remove completely from vehicle. To install drive belt, reverse procedure.



Steering Mechanism

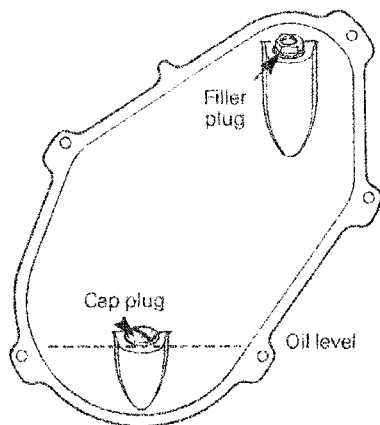
WARNING: Do not lubricate throttle and/or brake cable and housings.

Lubricate ski legs at grease fittings until new grease appears at joints. Oil spring coupler bolts.



Chaincase Oil Level

Check oil level by removing oil level cap plug.



The oil should be level with the bottom of the oil level orifice.

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

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

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

Code	(Weekly)	Page
W1	Spark plug	12
W2	Suspension condition	13
W3	Track condition	13
W4	Track tension and alignment	13
W5	Carburetor adjustment	14
W6	Drive belt	15
W7	Steering mechanism	16
Code	(Monthly)	Page
M1	Brake	15
M2	Steering adjustment	16
M3	Engine head nuts	16
M4	Engine mount nuts	16
M5	Muffler attachment	16
M6	Fan belt	17
M7	General inspection	17
	Headlamp adjustment	17

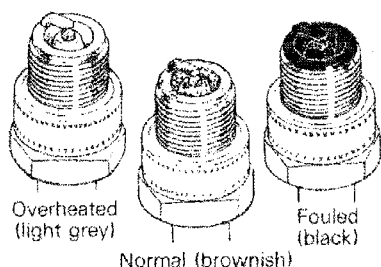
(W1) Spark Plugs

Disconnect spark plug wires and remove spark plugs.

Check condition of plugs.

- A brownish tip reflects ideal conditions. (Correct carburetor, spark plug heat range; etc.).
- 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.

Reinstall plugs and connect wires.

(W2) Suspension Condition

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

NOTE: During normal driving, snow will act as a lubricant and coolant for the slider shoes. Extensive riding on ice or sanded snow, (not to mention dirt, asphalt, etc. never recommended) will create excessive heat build-up and cause premature slider shoe wear.

(W3) Track Condition

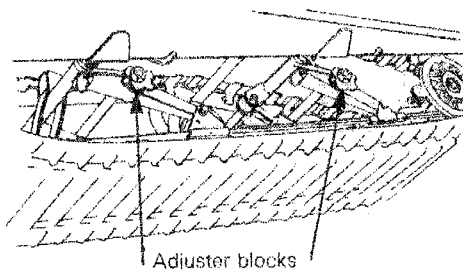
Lift rear of vehicle and support it off the ground. With engine off, rotate track by hand, and inspect condition. If worn, cut or track fibers are exposed or missing or defective inserts or guides are noted, contact your dealer.

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

(W4) Track Tension and Alignment

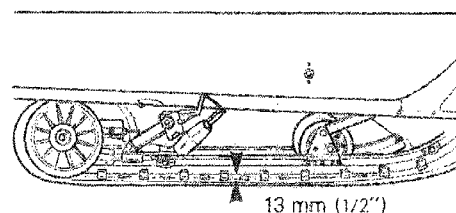
The suspension is adjustable, the front adjustment for surface condition, the rear for driver's weight.

When the front adjuster blocks are at the lowest elevation more weight is distributed on skis. At the highest position the weight is transferred from the skis to the track. The rear adjuster blocks should be adjusted to suit the driver's preference.



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

Lift rear of vehicle and support with a mechanical stand. Allow slide to extend normally. Check the gap 13 mm (1/2") between slider shoe and bottom inside of track. If track tension is too loose, the track will have a tendency to thump.

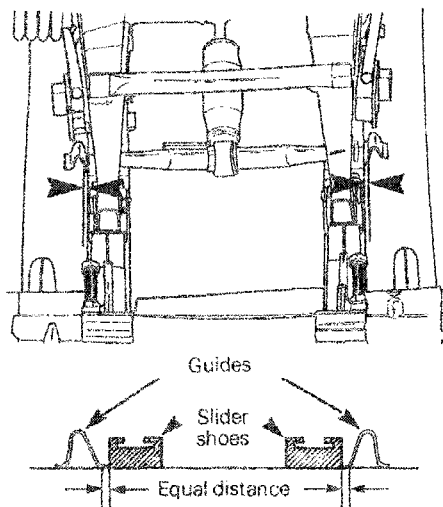


CAUTION: Too much tension will result in power loss and excessive stresses on suspension components.

If necessary to adjust. Loosen the rear idler wheel retaining screw and then loosen or tighten adjuster bolts located on inner side of rear idler wheels. If correct tension is unattainable. Contact your dealer.

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

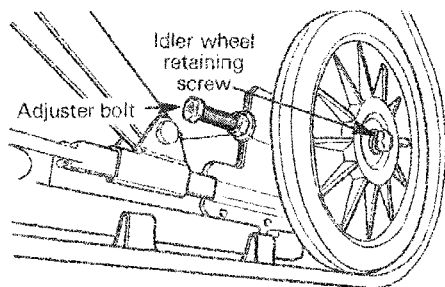
Start the engine and accelerate slightly so that track turns slowly. Check that track is well centered. Equal distance on both sides between edges of track guides and slider shoes.



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

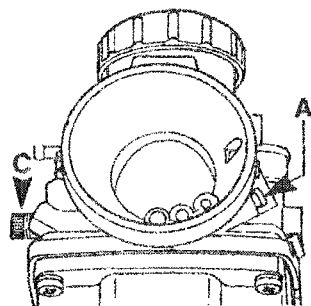
To correct, stop engine loosen the rear idler wheels retaining screws then loosen the lock nuts and tighten the adjuster bolt on side where the slider shoe is the furthest to the track insert guides.

Tighten lock nuts and recheck alignment. Ensure to retighten the idler wheel retaining screws.



(W/S) Carburetor Adjustment

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



A) Air Screw Adjustment

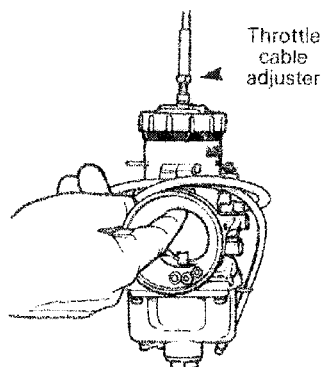
Completely close the air screw (until a slight reseating resistance is felt) then back off screw: $1\frac{1}{2}$ turn $\pm 1/8$.

B) Throttle Slide Adjustment

◆ **WARNING:** Ensure the engine is turned **OFF**, prior to the throttle slide adjustment.

With the throttle cable adjuster jam nut unlocked, press the throttle lever against the handle grip. Unscrew the cable adjuster manually to obtain maximum carburetor slide opening. (With the air silencer removed, check with your finger if the carburetor slide is well seated against the carburetor top portion). Then, screw the cable adjuster in two turns in order to nullify any possi-

ble tension on the throttle cable then tighten the cable adjuster jam nut.



WARNING: It is important that the throttle slide adjustment be performed to ensure proper functioning of throttle mechanism.

Idle Speed Adjustment

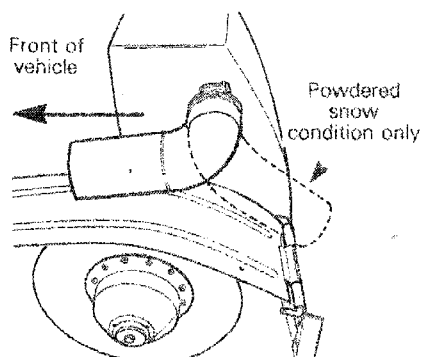
Turn idle speed screw clockwise until it contacts the throttle slide then continue turning two (2) additional turns. This will provide a preliminary idle speed setting. Start engine and allow it to warm then adjust idle speed to 1500-2000 R.P.M. by turning idle speed screw clockwise or counter-clockwise.

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.

Air Silencer

The air intake silencer elbow must always be turned to the front of the vehicle when operated in cold, warm temperature.

If the vehicle is to be operated in deep powdered snow it is recommended to turn the elbow towards the rear of the vehicle.



(100) Drive Belt

Inspect belt for cracks, fraying or abnormal wear (uneven wear, wear on one side, etc.) If abnormal wear is noted, probable cause is pulley misalignment. Contact your dealer.

Check drive belt width, if less than 3 cm (1 3/16") replace the drive belt.

NOTE: When installing a new drive belt, a break-in period of 15-25 km (10-15 miles) is strongly recommended.

(107) Steering Mechanism

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

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

(111) Brake

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

WARNING: Brake pad or pucks less than 3 mm (1/8") thick must be replaced. Replacement must be performed by an authorized dealer.

The brake mechanism is self-adjusting, therefore, periodic adjustment is not required. However, check operation of brake mechanism by depressing brake control lever. Brake should apply fully when lever is 13 mm (1/2") approx. from handlebar grip. If not, do not tamper with the brake, contact your servicing dealer.

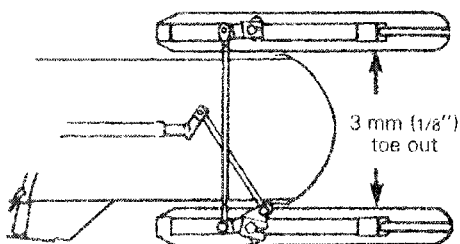
(M2) Steering Adjustment

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

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

If adjustment is required:

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

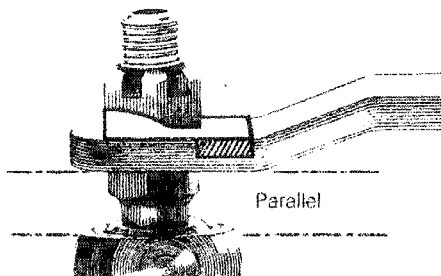


Handlebar should also be horizontal when the skis are pointed toward front.

To adjust:

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

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



(M3) Engine Head Nuts

With engine cold, check that engine head nuts are tight and equally torqued to 20 N•m (15 ft-lbs).

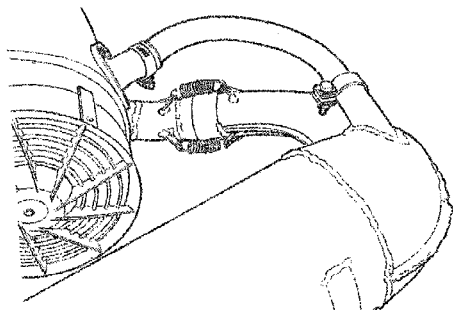
IMPORTANT: The engine head nut torque should be checked after the first 5 hours of operation.

(M4) Engine Mount Nuts

Check engine mount nuts for tightness. Retighten if necessary.

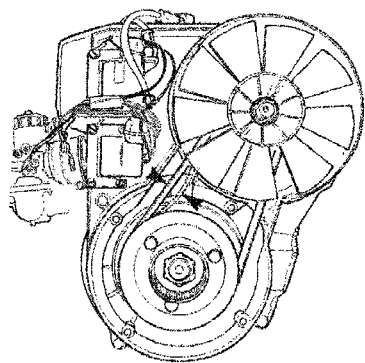
(M5) Muffler Attachment

The engine/muffler attaching parts are vital toward efficient muffler function. Check all attachments. Replace springs and/or tighten if necessary.



Ensure that the forced flow system is well aligned and tightened.

(106) Fan Belt



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

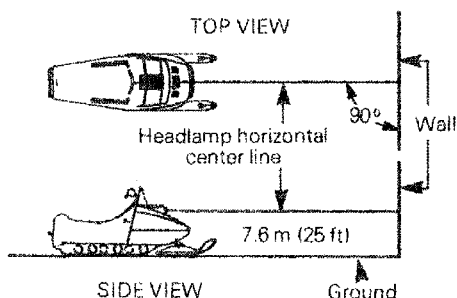
WARNING: If fan protector is removed, always reinstall after servicing.

(107) General Inspection

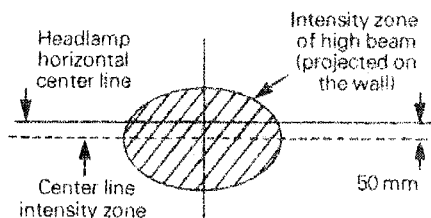
Check electrical wiring and components, retighten loose connections. Check for stripped wires or damaged insulation. Thoroughly inspect the vehicle and tighten loose bolts, nuts and linkage. Inspect skis and ski runners for wear.

Headlamp Beam Alignment

The angle of the headlamp beam has been pre-adjusted prior to delivery. Should you wish re-adjustment, place vehicle on a flat surface 7.6 m (25') 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 50 mm (2") below horizontal line of headlamp height.



To adjust, remove headlamp chrome ring, turn upper or lower adjusting screws to obtain desired beam position.

Bulb Replacement

If headlamp is burnt, tilt cab. Unplug connector from headlamp. Remove rubber boot and unfasten bulb retainer clips. Detach bulb and replace. If tail-light bulb is burnt, expose bulb by removing red plastic lens. To remove, unscrew the two (2) Phillips head screws. Verify all lights after replacement.

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 period 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 of oil mixtures, to prevent gum varnish formation within the carburetor; and in general, preparing the vehicle so that when the time comes to use the snowmobile again it will start and 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 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 rear of vehicle until track is clear of ground then support with 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 40 days). Do not release track tension.

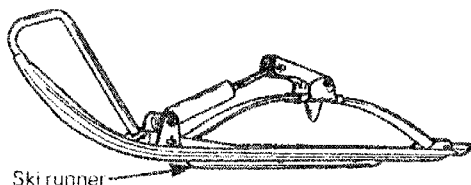
▼ **CAUTION:** To prevent track damage, temperature in the storage area must not exceed 38°C (100°F).

Idle Suspension

Remove any dirt or rust. Grease idler wheels at grease fittings. Wipe off surplus. Replace worn slider shoes.

Skis

Wash or brush all dirt or rust accumulation from skis and springs. Grease ski legs at grease fittings. Check condition of skis, ski runners and leaf springs. Replace if worn or weak.



Controls

Lubricate steering mechanism. Inspect components for tightness, (spring coupler bolts, steering arm locking bolts, tie rods, ball joints, etc.). Tighten if necessary. Oil moving joints of brake mechanism.

◆ **WARNING:** Do not lubricate throttle and/or brake cable housing. Avoid getting oil on brake pads.

Coat 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. To drain, remove chaincase cover.

Fuel Tank

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

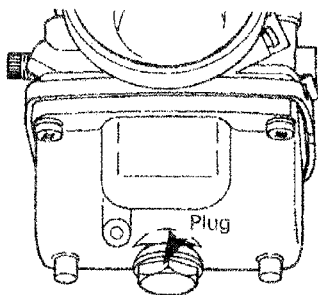
◆ **WARNING:** Gasoline is flammable and explosive under certain conditions. Always perform procedures in a well ventilated area. Do not smoke

or allow open flames or sparks in the vicinity.

Carburetor

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 carburetors.



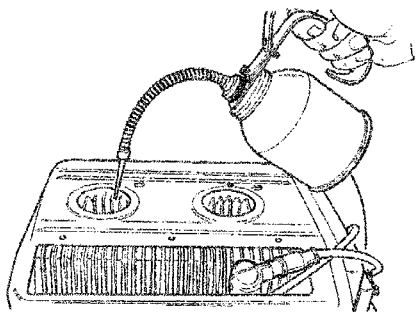
Re-install plug and connect fuel line.

Cylinder Lubrication

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

○ **NOTE:** This operation should be repeated every 40 days during storage.

Remove spark plugs. Operate rewind starter to bring piston at top position. Pour the equivalent of one spoonful of oil into spark plug hole.



Slowly crank engine several times using manual starter. Repeat above steps for other cylinder. Install spark plugs.

▼ **CAUTION:** To prevent ignition system damage, make sure that the cut-out button is in the lower position.

Cleaning

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

▼ **CAUTION:** Plastic alloy components such as fuel tank, windshield, etc., can be cleaned using mild detergents or isopropyl alcohol. Do not use strong soaps, degreasing solvents, abrasive cleaners, paint thinners, etc.

Inspect cab and repair damage. Repair kits are available at your authorized dealer. Clean frame. For the aluminum portion use only "Aluminum cleaner" and follow instructions on container.

Touch up all metal spots where paint has been scratched off. Spray all bare metal parts of vehicle with metal protector. Wax the cab for better protection.

○ **NOTE:** Apply wax on glossy finish of cab 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 affecting the plastic components and the vehicle finish.

General Inspection

Check electrical wiring and components, retighten loose connections. Check for stripped wires or damaged insulation.

Thoroughly inspect the vehicle and tighten loose bolts, nuts and linkage.

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

PRE-SEASON PREPARATION

Snow is falling and you are now anticipating the next snowmobile safari. If you have observed and adhered to the storage procedures outlined in this manual, your vehicle preparation becomes a relatively easy task.

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 servicing dealer. If these services are performed as suggested, your vehicle will give you many hours of fun and low cost use.

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

PRE-SEASON PREPARATION CHART

To be performed by dealer	●
To be performed by owner	○
Change spark plugs	○
Check chaincase oil level	○
Check pulleys, verify components and clean	●
Check steering alignment and ski runner condition	○
Replace fuel filter	○
Check track tension and alignment	○
Inspect drive belt and install	○
Check throttle cable for damage and free operation	○
Inspect brake condition and operation	●
Inspect oil seals for possible cuts or leaks	○
Set engine timing, if necessary replace breaker points	●
Check electrical wiring (broken wire, damaged insulation)	○
Inspect condition of starting rope	○
Check tightness of all bolts, nuts and linkage	○
Refill gas tank	○
Adjust carburetor	●
Clean fan belt condition and tension	○

TROUBLE SHOOTING

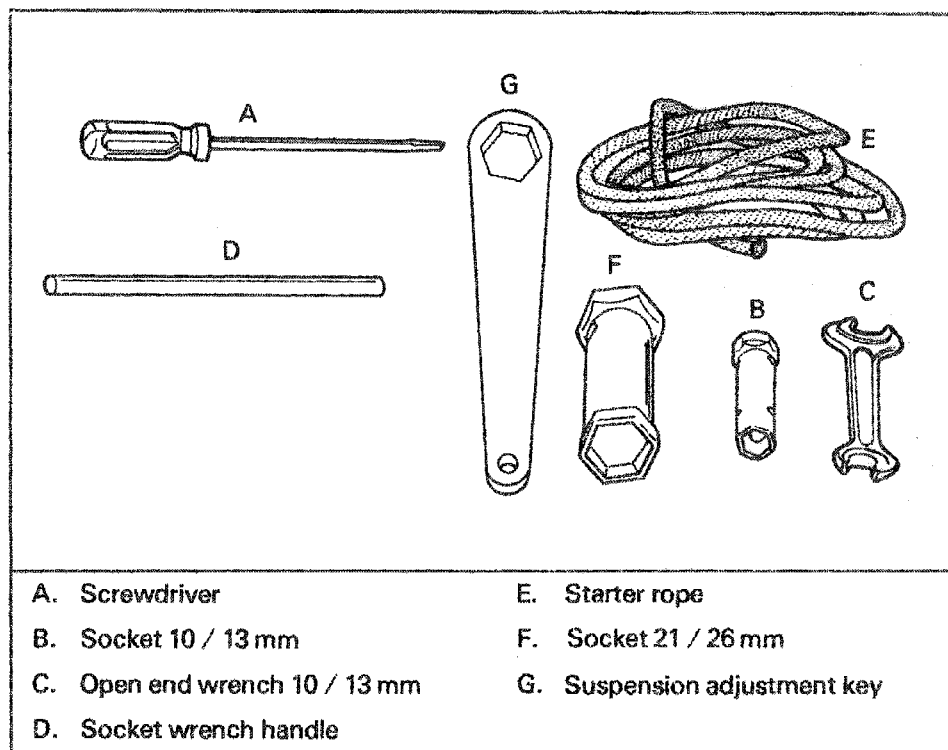
SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
Engine turns over but fails to start or starts with difficulty	1. No fuel to the engine	Check the tank level and fill up with correct gas-oil mixture. Check for possible clogging of fuel line, item 5.
	2. Spark plug	Check for fouled or defective spark plug. Disconnect 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, check item 3.
	3. Faulty ignition	Disconnect spark plug wire from plug, unscrew the spark plug cap then hold wire about 3 mm (1/8") from the cylinder head. Follow engine starting procedure and if no sparks appear, it means a faulty ignition system. Do not attempt to repair. Contact your dealer.
	4. Flooded engine	Remove wet spark plugs, turn ignition to OFF and crank engine several times. Install clean dry spark plugs. Start engine following usual starting procedure. If engine continues to flood, see your dealer.
	5. Clogged fuel line (water or dirt)	Remove and clean the fuel filter. Change filter cartridge if necessary. Check condition and connections of fuel lines. Check the cleanliness of fuel tank.
	6. Faulty carburetor	First make primary adjustments on carburetor (See Maintenance Section). If carburetor is still faulty, contact your dealer for repair.
	7. Too much oil in fuel	Drain the fuel tank and refill with the correct gas/oil mixture.
	8. Engine timing	Engine timing may be defective or out of adjustment. Contact your dealer.
	9. Poor engine compression	Running with a lean fuel mixture may produce excessive engine wear resulting in poor engine compression. If this occurs, contact your dealer at once.
Engine will not turn manually	1. Seized engine	In the case of a seized engine contact your dealer. Seizure is a direct result of poor lubrication.

SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
Engine lacks acceleration or power	1. Fouled or defective spark plug	Check item 2 of "Engine turns over but fails to start or starts with difficulty"
	2. Clogged fuel line (water or dirt)	Check fuel line condition. (See item 5 of "Engine turns over but fails to start or starts with difficulty").
	3. Carburetor	Readjust the carburetor. (See Maintenance section). If trouble persists, contact your dealer.
	4. Faulty ignition	First check item 2 and 3 of "Engine turns over but fails to start or starts with difficulty". If the ignition system still seems faulty, contact your dealer.
	5. Engine	If unable to locate specific symptoms, contact your dealer.
Engine continually backfires	1. Faulty spark plug	Check item 2 of "Engine turns over but fails to start or starts with difficulty".
	2. Overheated	Carburetor set too lean. Contact your dealer.
	3. Engine timing incorrectly set	Contact your 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. Faulty engine	Check item 1 to 5 of "Engine lacks acceleration or power".
	4. Pulley misaligned	Contact your dealer.

TOOLS

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

Standard tools



SPECIFICATIONS

ENGINE	
No. of cylinders	2
Bore	72 mm
Stroke	61 mm
Displacement	496.7 cm ³
Compression ratio (corrected)	6.2:1
Carburetor type	2 x VM 34-203
Carburetor adjustment — air screw	1 1/2 turn \pm 1/8
— idle speed	1500-2000 R.P.M.
Engine head nuts (torque)	20 N·m (15 ft-lbs)
Fan belt free-play	6 mm (1/4 in.)
CHASSIS	
Overall length	265 cm (104 in.)
Overall width	99 cm (39 in.)
Overall height	93 cm (36 3/4 in.)
Ski stance (center to center)	85 cm (33 1/2 in.)
Ski alignment (toe out)	3 mm (1 1/8 in.)
Mass (weight)	186 kPa (410 lbs)
Bearing area	7710 cm ² (1195 in. ²)
Ground pressure	2.364 kPa (.343 lbs/in. ²)
POWER TRAIN	
Track dimensions	38.1 cm (15 in.) x 289.6 cm (114 in.)
Track tension	13 mm (1/2 in.) gap should exist between slide shoe and bottom inside of track.
Track alignment	Equal distance between edges of track guides and slider shoes.
Std. gear ratio	21/38
Chaincase oil capacity	256 mL (9 oz)
Drive belt (minimum width)	3 cm (1 3/16")
ELECTRICAL	
Lighting system (output)	12 volts, 140 watts
Headlamp bulb	60/60 W
Tail/stop	5/21 W
Spark plug (Bosch) — normal use	W 275 T2 (W3C)
— severe use	W 275 T2 (W3C)
Spark plug (gap)	0.4 mm (.016 in.)
Advanced ignition timing — direct	2.0 mm \pm .10 (.078 in. \pm .004)
FUEL	
Tank capacity — SI*	29.5 liters
— Imp.	6.5 gals.
— U.S.	7.8 gals.
Gasoline	Regular
Gas/oil ratio	50:1
BRAKE	
Brake type	Disc, self-adjusting
Brake adjustment (control)	13 mm (1/2 in.) minimum distance from handlebar grip when fully applied.
Brake lining (minimum thickness)	3 mm (1/8 in.)

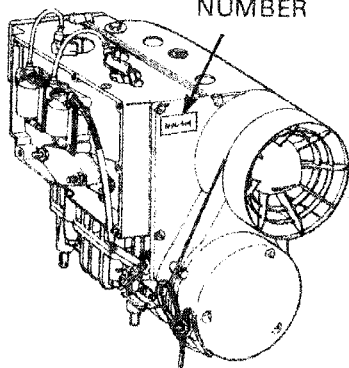
*International Standard

Bombardier Limited 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 product previously manufactured.

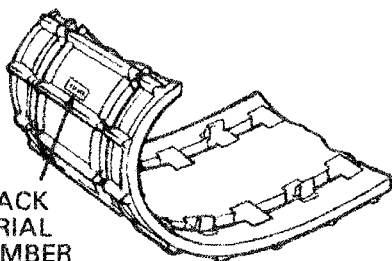
HOW TO IDENTIFY YOUR SNOWMOBILE

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.

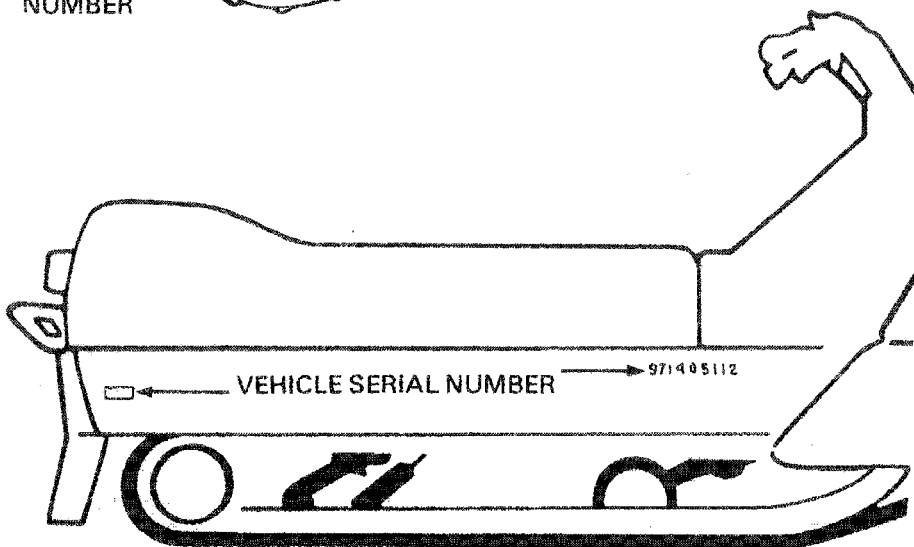
ENGINE
SERIAL
NUMBER



TRACK
SERIAL
NUMBER



VEHICLE SERIAL NUMBER



○ 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 a snowmobile is stolen.

LIMITED WARRANTY SKI-DOO® SNOWMOBILES

BOMBARDIER Limited as manufacturer, warrants FROM THE DATE OF FIRST CONSUMER SALE, every 1979 Ski-Doo® snowmobile, sold as NEW AND UNUSED, by an authorized SKI-DOO dealer, subject to the following limitations and conditions, for a period of:

- **two (2) seasons maximum** for models:
Elan®, Olympique®, Citation®, Everest®, Elite®.
- Warranty **STARTS** on the date of sale to the first consumer and **ENDS** the **SECOND APRIL 30TH** following the date warranty coverage started.
- **Ninety (90) consecutive** days for the following models:
Blizzard® 5500-7500-9500 and Alpine® subject to the following:
 1. When a sale is made after **MARCH 31ST** of a given year but before **THE 1ST DAY OF DECEMBER** of the same year, the warranty will start on **DECEMBER 1ST** following the date of sale.
 2. When a sale is made on / or after **JANUARY 2ND** of a given year, the unused portion of the 90 days warranty as of **MARCH 31ST**, of that year will be carried over to the next season, beginning the **1ST DAY OF DECEMBER**.

Any 1979 model not listed above is not warranted.

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 SKI-DOO dealer during said warranty period.

EXCLUSIONS

Items and components:

Any of the following expendable items and / or components that are damaged or worn due to normal use: variable speed drive belt, windshield, filters, ignition breaker points, condensers, spark plugs, light bulbs, protective lenses, brake linings, ski runner shoes, slider shoes on suspension and variable speed pulleys, labels, soft trim, appearance items, lubricants and paints and all tune-ups and adjustments required, seized, melted or holed piston.

Also excluded are:

- Damage resulting from installation of parts other than genuine BOMBARDIER parts.
- Damage caused by failure to provide **proper maintenance** as detailed in the **Operator Manual** supplied with each SKI-DOO snowmobile. The labour, parts and lubricants cost of all maintenance services, including tune-ups and adjustments will be charged to the owner.
- Damage resulting from improper servicing or adjustment of the drive pulley assembly. **The drive pulley assembly is factory sealed, and can only be serviced by an authorized SKI-DOO dealer.**
- Vehicles used for racing purposes.
- Vehicles used for rental or other business purposes.
- All optional accessories installed on the vehicle.
(The normal warranty policy for parts and accessories if any, applies).

- Damage resulting from operation of the snowmobile on surfaces other than snow.
- Damage resulting from accident, fire or other casualty, misuse, abuse or neglect.
- 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 damages.

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.

WHAT YOU MUST HAVE TO OBTAIN YOUR WARRANTY

Present, to the servicing dealer, the hard copy of the SKI-DOO Customer Registration card given by the selling dealer at time of purchase.

SCOPE OF YOUR WARRANTY

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 of 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.

CONSUMER ASSISTANCE

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

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

Bombardier Limited
Customer Relations Dept.
Recreational Product Group
Valcourt, Quebec, Canada, J0E 2L0

Bombardier Limited 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.

JANUARY 1978

BOMBARDIER LIMITED
Valcourt, Quebec, Canada, J0E 2L0

*Trademark of Bombardier Limited

®Registered Trademark of Bombardier Limited

OFTEN ASKED QUESTIONS



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

A: The information provided by the Customer Warranty Registration card is computerized, and all warranty claims thereafter, are processed by the computer. Without this valuable information on the Warranty Registration Card, we cannot acknowledge warranty or notify owners of a possible recall.

Q: How do I know my vehicle has been registered at the factory?

A: When you bought your snowmobile the dealer should have completed, signed and forwarded us the manufacturer's copy of the Customer Warranty Registration. The hard copy of the card is your proof that the snowmobile is registered.

Recreational Products Produits Récréatifs		CUSTOMER WARRANTY REGISTRATION ENREGISTREMENT DE LA GARANTIE			
Model No./No. du Modèle	Serial No./No. de série	Engine Ser. No./No. Sér. du Moteur	Track Ser. No./No. Sér. Chen.		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Dealer's Name Nom du Concessionnaire	Distributor Code Code du distribut.	Dealer Code Code du concess.	Date of Sale/ Date de la vente		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Customer Name Nom du client	First Name/Prénom	Family Name/Nom de famille			
Mr./M. Mrs./Mme Miss/Mlle	<input type="text"/>	<input type="text"/>			
Address/Adresse	<input type="text"/>				
City/Ville	<input type="text"/>				
State/Province—Zip code/Code postal	<input type="text"/>				
Manufacturer's copy / Copie du manufacturier					Part no. / No de pièce 804 0259 00

  * If applicable / s'il y a lieu

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.

Q: I bought my snowmobile in O'King County but I snowmobile in Washington County. Can the 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: Manufacturer does not accept warranty work on seized, scored or melted pistons, why?

A: From testing and experience, we know that such piston failures can only be caused by detonation or pre-ignition, which are directly related to the following factors and therefore, are beyond the manufacturer's control.

- Lean carburetor settings.
- Use of no-lead or low-lead gasoline or use of regular gasoline when premium is recommended.
- Incorrect oil / gas mixture (too little or too much oil).
- Poor quality, outboard or straight mineral oils.
- Removal of intake silencer.
- Retarded or advanced ignition timing.
- Hot spark plug(s) (improper heat range).

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

A: In the Operator Manual provided with the vehicle at the time of first sale.

Q: As I read through the warranty, I find that expendable items are not covered. What are some examples of expendable items?

A: Expendable items are those subject to wear and tear through normal use. To list a few, light bulbs, spark plugs, brake linings, belts, suspension and ski runner shoes, etc...

CONSUMER GUIDE

WHEN YOU BUY...

our product you will receive:

SERVICE — from the product itself

SERVICE — from the dealer who sells the product

If, however, the service or product is unsatisfactory,

1st

Return to your dealer's service department and discuss the details of the problem with the manager. He is in a position to help you with all maintenance and service needs. If the matter cannot be resolved, he may want to bring the sales manager or the general manager into discussion.

If the dealer cannot solve the situation.

2nd

Write to your nearest area distributor.

TELL HIM THE FACTS

- Vehicle identification number.
- Date of purchase.
- Name and address of your selling dealer.
- Your name, address and phone number.
- The specific problem.

The matter will receive immediate attention from the distributor's service department.

If at this point your grievance still remains unresolved, contact

3rd

**Bombardier Limited,
Valcourt, P.Q. J0E 2L0
Att'n Customer relations**

Provide all necessary details (including names of persons previously contacted). Your problem will be reviewed and instructions will be provided to the persons responsible for product service in your area or we may contact you directly.

LISTING OF AREA DISTRIBUTORS



CANADIAN DISTRIBUTORS

ALPINE DISTRIBUTORS LIMITED
3206 — 28th Street
P.O. Box 169
Vernon, British Columbia, V1T 6M2
(604) 545-1314
British Columbia

BOMBARDIER LIMITED
EASTERN CANADA DISTRIBUTION DIVISION
(Atlantic Branch)
P.O. Box 670
Shediac, New Brunswick, E0A 3G0
(506) 532-4454
Magdalen Island, Nova Scotia, New Brunswick,
Prince Edward Island

BOMBARDIER LIMITED
EASTERN CANADA DISTRIBUTION DIVISION
Valcourt, Québec, JOE 2L0
(514) 532-2211
Québec, Eastern of Ontario

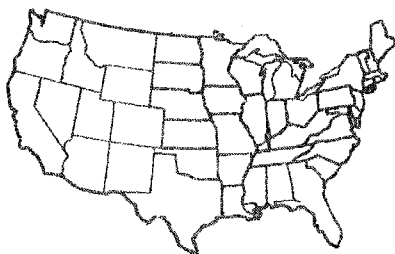
BOMBARDIER LIMITED
EASTERN CANADA DISTRIBUTION DIVISION
Ontario Branch
230 Bayview Drive
Barrie, Ontario, L4N 4Y8
(705) 728-9600
Ontario, less Eastern Ontario

BROOKS EQUIPMENT LIMITED
1616 King Edward Street
P.O. Box 985
Winnipeg, Manitoba, R3C 2U8
(204) 633-7247
Manitoba, Saskatchewan

HUDSON'S BAY CO.
165 Hymus Boulevard
Pointe-Claire, Québec, M4W 1A8
(514) 897-8500
North-West Territories, Franklin District & Keewatin

J.W. RANDALL LIMITED
West Street
P.O. Box 757
Corner Brook, Newfoundland, A2H 6G7
(709) 634-3533
Newfoundland, Labrador

TRACT EQUIPMENT LIMITED
14325, 114th Avenue
Edmonton, Alberta, T5M 2Y8
(403) 452-9010
Alberta, Dist. Mackenzie, Yukon, N.W.T.



AMERICAN DISTRIBUTORS

MILLER EQUIPMENT AND RECREATIONAL CENTER
1049 Whitney Road
P.O. Box 3338
Anchorage, Alaska 99501
(907) 274-8513-14-15
Alaska

ELLIOTT & HUTCHINS INC.
East Main Street Road
Malone, New York
(518) 463-4411
New York, Massachusetts, Connecticut, Rhode Island,
Pennsylvania, New Jersey, Maryland, Delaware, District of
Columbia

TIMBERLAND MACHINES INC.
10 Main St., North
Lancaster, New Hampshire 03584
(603) 769-4738
Maine, New Hampshire, Vermont

BOMBARDIER CORPORATION
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P.O. Box 5106
Duluth, Minnesota 55806
(218) 628-2881
North Dakota, South Dakota, Minnesota, Wisconsin, Iowa,
Illinois, Missouri, Michigan, Indiana, Ohio, Tennessee,
Kentucky, West Virginia

BOMBARDIER WEST INC.
609 West Broadway
Idaho Falls, Idaho 83401
(208) 523-6870
California, Nevada, Montana, Idaho, Wyoming, Utah, Colorado,
New Mexico, Arizona, Kansas, Nebraska, Washington,
Oregon

THROUGHOUT THE WORLD

BOMBARDIER-ROTAX GmbH
Vienna Branch,
P.O. Box 86
Donaufelderstrasse 73-79
1210 Vienna, Austria
Austria

COLBJORNSEN & CO. A/S
P.O. Box 50
1341 Bekkestua, Norway
Norway

KY LAATUVAUNU
Itäahdenkatu 25
SF-00210 Helsinki 21, Finland
Finland

MOVAC AB
Box 791
S-901 -- 10 Umeå, Sweden
Sweden

NOTES

CHANGE OF ADDRESS AND OWNERSHIP

Any change in address or ownership should be brought to the attention of the manufacturer by completing and sending out the card supplied below. This will help us to maintain our files up-to-date.

CHANGE OF ADDRESS

VEHICLE IDENTIFICATION NUMBER

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

OLD ADDRESS:

NAME

NO

STREET

APT.

CITY

STATE

ZIP / POSTAL CODE

NEW ADDRESS:

NAME

NO

STREET

APT.

CITY

STATE

ZIP / POSTAL CODE

CHANGE OF OWNERSHIP

VEHICLE IDENTIFICATION NUMBER

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

The ownership of this vehicle is transferred

FROM:

NAME

NO

STREET

APT.

CITY

STATE

ZIP / POSTAL CODE

TO:

NAME

NO

STREET

APT.

CITY

STATE

ZIP / POSTAL CODE

BOMBARDIER LIMITED
ATT.: WARRANTY DEPARTMENT
VALCOURT, QUEBEC
CANADA, JOE 2L0

BOMBARDIER LIMITED
ATT.: WARRANTY DEPARTMENT
VALCOURT, QUEBEC
CANADA, JOE 2L0