



@Trademarks of Bombardier Limited

Litho'd in Cenada 414 3566 00

| , | | 1 | |
|-----|----------------------|--|--|
| | model | | |
| | V.I.N. | Will Control of the C | |
| | purchase date | general de la company | |
| | warranty expiry date | *************************************** | |
| | | | |
| *** | | , | |

| DEALER IMPRINT AREA |
|---------------------|
|---------------------|

Text by:

Technical Information Centre After Sales Service Department **Bombardier Limited** Valcourt, Quebec Canada, JOE 2L0

Suggested Retail Price: \$2.75 (First copy free with unit purchased)

The following are trademarks of Bombardier Limited.

BOMBARDIER EVEREST SKI-DOO ALPINE BLIZZARD CARRY-BOOSE **ELAN**

MIRAGE **NORDIC OLYMPIQUE** SKI-BOOSE

FUTURA SPIRIT NUVIK SONIC

MOTO-SKI

ELITE

T'NT

FOREWORD

CONGRATULATIONS... You are now the proud owner of a new 1979 Ski-Doo snowmobile. This vehicle is the result of 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

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 the engine at high R.P.M. when the tracks of the engine are 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.

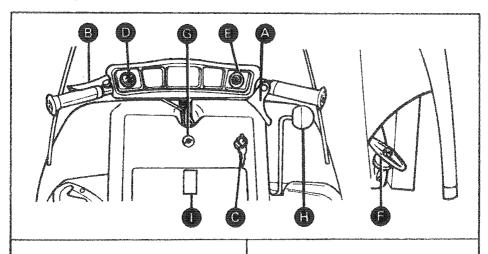
Please read and understand all other warnings contained elsewhere.

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

INDEX

| CONTROLS / INSTRUMENTS Throttle lever, brake lever, ignition / light switch, headlamp dimmer switch, emergency cut-out switch, manual starter handle, choke, gear shift lever, access door latch, cab removal, seat compartment, fuel gauge |
|---|
| BREAK-IN PERIOD Break-in, inspection, inspection checklist |
| PRE-START CHECK Check points |
| FUEL MIXING Recommended gasoline, recommended oil, fuel mixture ratio, fuel mixing procedure |
| STARTING PROCEDURE Starting procedure, emergency starting, driving tips |
| LUBRICATION Frequency, pulley guard removal, drive belt removal, driven pulley, steering mechanism, gearbox oil level, bogie wheels, rear axles |
| MAINTENANCE Maintenance chart, spark plugs, battery, suspension, tracks, track tension and alignment, carburetor adjustment, air silencer box, drive belt, steering mechanism, drive chain tension, brake, steering adjustment, engine head nuts, engine mount nuts, muffler attachement, fan belt, general inspection, headlamp 14 |
| STORAGE Tracks, suspension, ski assembly, fuel tank, carburetor, cylinder lubrication, gearbox, controls, driven pulley, chassis, general inspection |
| PRE-SEASON PREPARATION Pre-season preparation, chart |
| TROUBLE SHOOTING |
| TOOLING |
| SPECIFICATIONS |
| HOW TO IDENTIFY YOUR SNOWMOBILE |
| THE 1979 "LIMITED WARRANTY" |
| OFTEN ASKED QUESTIONS |
| CONSUMER GUIDE |
| LISTING OF AREA DISTRIBUTORS |
| CHANGE OF ADDRESS OR OWNERSHIP |

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) Choke
- H) Gear Shift Lever
- I) Access Door Latch

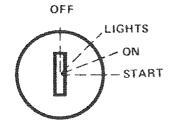
A) Throttle Control Lever

Located on right side of handlebar. When depressed, 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 depressed, 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, 4 position switch. To start engine, turn key fully clockwise to START position and hold. Return key to ON position immediately engine has started. To stop engine, turn key counter-clockwise to OFF position. To illuminate both headlamp and taillight, turn key to LIGHTS position.

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 restarting engine.

F) Manual Storter Handle

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

G) Choke

A push-pull button. Pull button to engage choke, push to disengage. The choke should always be used for easier cold engine starts. After engine is warm however, it is not necessary to use choke when starting.

H) Gear Shift Lever

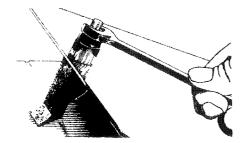
A 2 position, (FORWARD / REVERSE) gear shift lever. Push **up** for forward and **down** for reverse.

CAUTION: Do not active gear shift lever while snowmobile is in motion.

NOTE: When towing a disabled vehicle, its drive belt must be removed from pulleys and the gear shift lever positioned into forward gear.

D Access Door Latch

To gain access to the carburetor or spark plugs, lift pressure lock tap and pull open access door.



To adjust locking device turn nut in required direction.

Cab Removal

Unlatch cab by turning both handles toward front of vehicle, remove fuel tank cap, gently lift cab then disconnect junction block at right side of engine. Remove cab from vehicle.

WARNING: It is dangerous to run engine with cab off. Personal injury could result.

Seat Compartment

Remove backrest and tilt seat. Ideal location for spare plugs, belt, rope, etc.

NOTE: Emergency materials should be wrapped in foam or similar material. This will prevent possible damage to breakable items when travelling over rough or bumpy terrain.

Fuel Gauge

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

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

BREAK-IN PERIOD

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 exced ¾, 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 | V |
|--|-------------------|
| Engine timing | |
| Fan belt tension | |
| Spark plug condition | |
| Carburetor adjustment | |
| Engine head nuts | |
| Engine mount nuts | |
| Muffler attachment | |
| Gearbox oil level | |
| Chain tension | |
| Battery electrolyte level | |
| Brake operation and lining condition | |
| Ski alignment (runner condition) | , constant remain |
| Pulley alignment and drive belt condition | |
| Tracks condition, tension and alignment | |
| Lubricate (steering, suspension, driven pulley) | |
| 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. | 6 |

Dealer signature

Date of 10 hour inspection

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 requiements. 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.

S.I. Measure

400 mL oil to 20 liters $\equiv 50 / 1$

Imperial Measure

1 can 16 oz oil to 5 imp. gals \pm 50 / 1

U.S. Measure

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

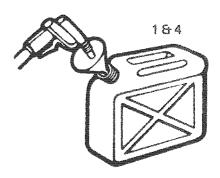
NOTE: To facilitate fuel mixing oil should be kept at room temperature.

Fuel Mixing Procedure

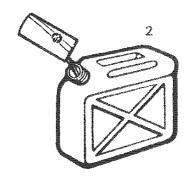
To mix the gasoline and oil always use a separate clean container. Never mix directly in your snowmobile tank. For best results, acquire two containers, either plastic or metal. Draw from one until empty then use the second one.

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 temperatures.

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

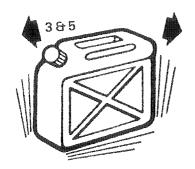


2. Add the full amount of oil.



PRE-START CHECK

3. Replace container cap and shake the container thoroughly.



- 4. Add the remainder of the gasoline.
- 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.

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

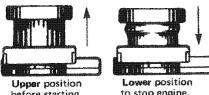
WARNING: Never 'top up' gas tank before placing vehicle in a warm area. At certain temperatures, gasoline will expand and overflow.

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 ski and the tracks 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.
- to stop engine.
- 1. Insert key in ignition switch.
- 2. Test throttle control lever.
- 3. Engage choke.
- Make sure the emergency cut-out button is in the released upper position.
- Turn ignition key clockwise until starter engages. If engine does not start on first try, key must be turned fully back to OFF each time.
- WARNING: Do not apply throttle while starting.
- 6. Release key immediately engine has started then disengage choke.
- CAUTION: Never operate your snowmobile with the battery removed or disconnected.
- 7. Check operation of the emergency cut-out switch then restart engine.
- WARNING: If engine does not cut-out, stop the engine by turning off the ignition key. Do not operate the vehicle, see your dealer.
- 8. Allow the engine to warm before operating at full throttle.

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

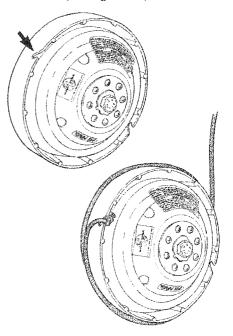
Emergency Starting

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

NOTE: Transfer the rope handle to your emergency rope.

Remove pulley guard from vehicle and wind the emergency rope tight around the drive pulley sliding half.

Grasp emergency starter rope handle firmly and pull slowly until a resistance is felt then pull vigorously.



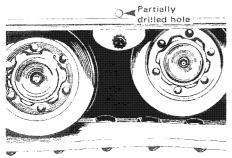
WARNING: When starting the vehicle in an emergency situation by the drive pulley do not reinstall the pulley guard.

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.

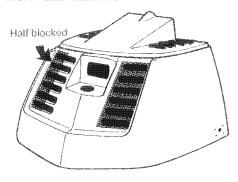
Driving Tips

Bogie Wheel

By raising the outer attachment of the bogie wheel sets, vehicle maneuverability in deep snow will increase. You will note that there are partially drilled holes located approx. 3.5 cm (1 % ") above the original cross shaft holes of the frame. To reposition bogie wheel sets, drill holes fully through using a \$\frac{1}{16}\text{"} dia. drill. Remove capscrews securing bogie wheel cross shafts to frame and reinstall bogie wheels in new position.



Front Cab Louvers



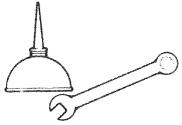
When operating the vehicle in powder snow it is advisable to block the front cab louvers as per illustration. Unblock the louvers as soon as snow condition becomes firmer or as soon as engine becomes too hot.

Pulling Heavy Loads

When pulling heavy loads, such as trail groomer, it is strongly recommended to enrich the Low Speed Mixture by turning its screw ¼ of a turn counter-clockwise.

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 safe and trouble-free 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.

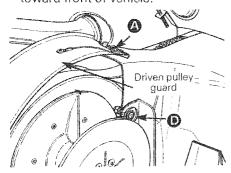
WARNING: Only perform such procedures as detailed in this manual. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.

Pulley Guard Removal

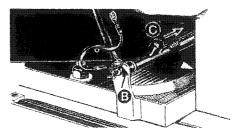
WARNING: Engine should be running only when pulley guard is secured in place.

 Remove cab. Pull out retaining clip

 (A) and tilt driven pulley guard toward front of vehicle.



2. Pull out retaining clip (B) to disengage pin (C) from bracket.

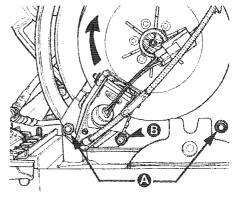


Move pulley guard toward front of vehicle to disengage front attaching device from front bracket.

Drive Belt Removal

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

Remove cab and pulley guard. Remove the two bolts (A) holding disc brake to the frame. Loosen nut (B) to separate brake caliper from disc brake bracket. Pivot the brake bracket assembly half a turn. Open the driven pulley. Twist and push the sliding half then hold in open position; slip slackened belt over the top edge of the sliding half. Slip the belt out from the drive pulley and remove from vehicle by passing it under the driven pulley and disc brake assembly. To install drive belt follow reverse procedure.



Driven Puiley

With cab removed, grease the driven pulley shaft as follows:

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

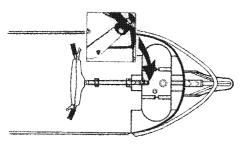
Thoroughly clean the driven pulley shaft.

Apply a light coat of low-temp grease on the shaft. Always lubricate lightly and wipe off surplus.

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

Steering Mechanism

Using light machine oil, lubricate the spring located on top of steering column housing. Allow oil to run in. Oil the mobile contact point at bottom end of steering arm. Using a small brush, dipped in low temp grease, lubricate steering arm ball joint.



Grease the ski leg at grease fitting until new grease appears at the joint. Lubricate spring coupler bolt with oil.

Gearbox Oil Level

The gearbox oil capacity is 454 mL (16 oz). To check level:

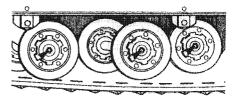
Remove rubber inspection cover located on bottom right side of gearbox. Using a rigid piece of wire as dipstick, check oil level. Oil level must reach 82 mm (3¼ ") on dipstick.



To fill, remove filler cap from top of gearbox. Refill as required using Bombardier chaincase oil.

Bogie Wheels

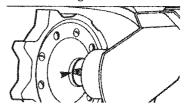
Grease the suspension bogie wheels with low-temperature grease. Pump through the grease fitting at the center of each wheel until new grease appears at the joint of inner side.



To grease the inner side bogie wheels, tilt vehicle on its side and apply pressure on track to expose grease fittings.

Rear Axlas

Lubricate the rear axles with low-temperature grease. Pump grease through the rear axle fittings.



 \bigvee

CAUTION: Always use a lowpressure grease gun.

MAINTENANCE

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 plugs | 14 |
| W2 | Battery | 14 |
| W3 | Suspension | 15 |
| W4 | Tracks | 15 |
| W5 | Track tension and alignment | 15 |
| W6 | Carburetor adjustment | 16 |
| W7 | Drive belt | 17 |
| W8 | Steering mechanism | 17 |
| W9 | Drive chain tension | 17 |
| Code | Monthly | Page |

| Code | Monthly | Page |
|------|----------------------------|------|
| M1 | Brake | 17 |
| M2 | Steering adjustment | 17 |
| МЗ | Engine head nuts | 18 |
| M4 | Engine mount nuts | 18 |
| M5 | Muffler attachment | 18 |
| М6 | Fan belt | 18 |
| M7 | Vehicle general inspection | 18 |
| | Headlamp adjustment | 18 |

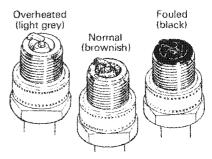
(W1) Seark Placs

Open access door. Disconnect spark plug wires and remove plugs. Check condition of plugs.

- A brownish tip reflects ideal conditions. (Correct carburetor adjustment, spark plug heat range, etc.).
- A black insulator tip indicates foul-

ing caused by: carburetor idle speed mixture and / or high speed mixture too rich, incorrect fuel mixing 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.



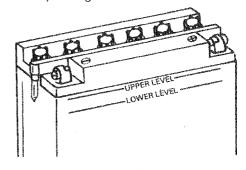
CAUTION: If spark plug condition is not ideal, contact your authorized dealer.

Check spark plug gap using a wire feeler gauge. Gap must be 0.5 mm (.020").

Reinstall plugs and connect wires.

(W2) Battery

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



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

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

After reconnecting battery, coat battery terminals and connectors with petroleum jelly to prevent corrosion. Check that battery is well secured and that battery overflow tube is not blocked or kinked.

WARNING: Overflow tube must be free and open. A kinked or bent tube will restrict ventilation and create gas accumulation that could result in an explosion. Avoid skin contact with electrolyte.

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

(W3) Suspension

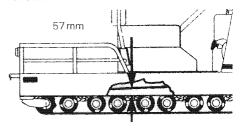
Visually inspect suspension springs. Replace any weak or broken spring.

Lift rear of vehicle and support it off the ground. Place gear shift lever in forward position. With engine off, rotate tracks by hand and inspect condition. If bad cuts or missing track inserts are noted, see your dealer for replacement.

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

(W5) Track Tension and Alignment

Lift the rear of vehicle and support it off the ground. Using a ruler, check track tension at the second set of bogie wheels from rear.

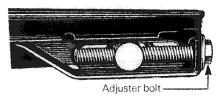


The deflection of each track should be 57 mm (2¼ ") between top inside edge of track and center of bogie wheel set retaining bolt.

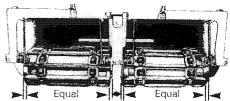
To adjust track use the following procedure:

Loosen link plate spring lock nuts (4) located on inner side of link plate springs.

Turn adjuster bolts clockwise to tighten tracks, counter-clockwise to slacken.



Start engine and allow tracks to rotate slowly. Check if tracks are well centered and turn evenly on the rear sprockets. The distance between track edges and link plates should be equal.



To correct:

Turn inner side adjuster bolt(s) counter-clockwise to bring track closer to center link plate(s), turn clockwise to withdraw track(s) from link plate(s).

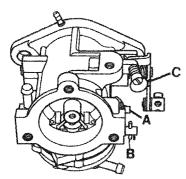
Tighten link plate spring lock nuts.

Rotate tracks slowly and recheck alignment.

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.

(W6) Carburetor Adjustment

The carburetor mixture adjustments are: A) Low Speed Mixture, B) High Speed Mixture and C) Idle Speed.



A) Low Speed Mixture Adjustment

Turn Low Speed Mixture Screw fully clockwise (until a slight seating resistance is felt). Back off screw 1 1/8 turn (+ 1/4 -- 0) counter-clockwise.

CAUTION: When pulling heavy loads such as trail groomer, it is strongly recommended to enrich the Low Speed Mixture by turning its screw ¼ of a turn counter-clockwise.

8) High Speed Mixture Adjustment

Turn High Speed Mixture Screw fully clockwise until closed. Back off screw $1\frac{1}{4}$ turn (+ $\frac{1}{4}$ -0) counter-clockwise.

CAUTION: Do not close screw too tightly or screw and / or seat can be damaged.

WARNING: A final High Speed Mixture Adjustment must be carried out only by an authorized Ski-Doo dealer.

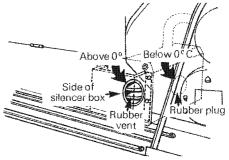
C) Idle Speed Adjustment

With engine running and warm, turn the idle speed screw clockwise to increase idling speed, counter-clockwise to decrease. Adjust idle speed to 1500-1800 R.P.M.

Air Siloncor Box

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

When operating the vehicle in temperature exceeding 0° C (32° F), the rubber ring must block the engine side orifice and the rubber vent must be positioned on the side of the silencer box to allow cold air circulation.



In temperatures below 0° C (32° F) and / or powder snow, the rubber plug must block the entry of fresh air on the side of the silencer box and the rubber vent must allow the warm air being emitted from the engine to be directed over the carburetor.

CAUTION: Observe temperature changes and locate plugs accordingly. Incorrect location of plugs may cause carburetor ice-up or engine overheating.

(W7) Drive Bolt

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, drive belt width should not be less than 30 mm (13/6") wide.

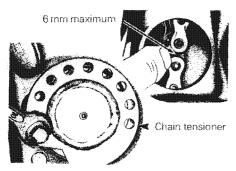
NOTE: When installing a new drive belt, a break-in period of 10-15 miles is strongly recommended.

(W8) Steering Mechanism

Inspect steering mechanism for tightness of components (steering arm, ball joint, etc.). If necessary, replace or retighten. Check condition of ski and ski runner. Replace if worn.

(W9) Drive Chain Tension

Run vehicle forward so that true freeplay can be taken. Check tension then turn driven pulley ½ turn counterclockwise and recheck. Starting from maximum reading, adjust chain tension to 6 mm (¼") free-play. Remove capscrew locking chain tensioner in place. (Tensioner is located at bottom left of gearbox).



Rotate the tensioner as required to obtain correct chain tension.

Replace capscrew to lock chain tensioner in place.

NOTE: If the vehicle is used to carry or pull heavy loads, it is advisable to change the gear ratio. Contact your dealer for optional gears.

(Mil) Broke

The brake mechanism is self-adjusting, therefore, periodic adjustment is not required. However, the brake mechanism can be checked by depressing brake control lever. Brake should apply fully when lever is 13 mm (½") approx. from handlebar grip. If it does not, do not tamper with the brake, contact your servicing dealer. Check the stop light to see if it functions. If necessary, readjust switch position.

WARNING: Brake pucks less than 5 mm (¾6") thick must be replaced. Replacement must be performed by an authorized Ski-Doo dealer. Always check the stop light to see if it functions.

(IM2) Stoering Adjustment

Ski should be perpendicular to handle-bar. To align:

Remove steering padding.

Remove bolt securing handlebar to steering column.

Remove handlebar to expose splined end of steering column.

Reposition handlebar on splines so that it is perpendicular with ski. Install and tighten bolt to 40-47 N_•m (30-35 ft-lbs).

NOTE: If correct spline alignment is unobtainable at handlebar, move lower steering bracket (located on top of gearbox) to obtain proper location. Lower steering bracket holes are slotted.

(M3) Engine Hoad Nuts

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

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

(M4) Engine Mount nuts

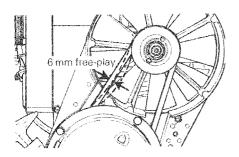
Check engine mount nuts for tightness. Retighten if necessary.

(NG) Muffler Attachment

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

(M8) Fan Balt

Inspect belt for cracks, uneven wear, etc. Check fan belt tension, 6 mm (¼") free-play should exist when deflection is correct.



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

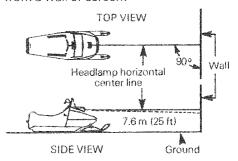
WARNING: If fan protector is removed, always reinstall after servicing.

(M7) General Inspection

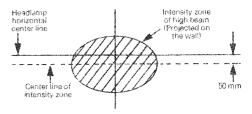
Check electrical wiring and components, retighten loose connections. Check for stripped wires or damaged insulation. Thoroughly inspect the vehicle and tighten loose bolts, nuts and linkage. Inspect ski and ski runner for wear.

Headiamp Seam Aiming

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 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.

Buib Replacement

If headlamp is burnt, remove cab. Unplug connector from headlamp. Remove rubber boot and unfasten bulb retainer clips. Detach bulb and replace. If taillight 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.

Tracks

Inspect tracks for cuts, missing track inserts or broken rods and make any necessary replacement.

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

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

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

Suspension

Remove the bogie wheel sets from the vehicle. Remove cross shaft from bogie wheel set. Clean bogie wheel assembly and cross shaft of dirt or rust. Grease each bogie wheel until all old grease is flushed out. Spray bogie wheel springs

with metal protector. If unavailable, wipe with cloth or rag soaked in oil. Check condition of shaft and replace if bent or worn. Apply a coat of low temp, grease on cross shaft.



Reassemble entire bogie wheel set, making sure assembly moves freely. Reinstall bogie wheel set. Repeat above steps on remaining bogie wheel sets. Lubricate rear hubs through grease fittings.

Ski Assembly

Wash or brush all dirt or rust accumulation from ski and spring. Grease ski leg at grease fitting. Check condition of ski and ski runner. Replace if worn or weak. Apply metal protector on ski assembly. If unavailable, wipe the entire ski with a cloth soaked in oil to prevent rust formation.

Fuel Tank

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

WARNING: Gasoline is flammable and explosive under certainconditions. Always perform procedures in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity.

Carburetor

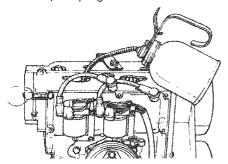
The carburetor must be dried out completely to prevent gum formation during storage period. Assure that fuel lines are disconnected then start the engine and run it out of gas. Disconnect the air silencer tube, engage choke then pack the carburetor throat with a clean piece of cloth and turn the engine a few more times. The suction should eliminate the remaining fuel. Connect air silencer tube and fuel lines.

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.

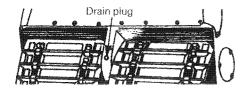


Slowly crank engine several times using manual starter. Repeat above steps for other cylinder. Install spark plugs.

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

Gearbox

Drain gearbox and refill with 454 mL (16 oz) of fresh Bombardier chaincase oil. (Drain plug is located beneath frame).



Controls

Lubricate steering mechanism. Inspect components for tightness, spring cou-

pler bolt, steering arm locking bolt, ball joint, etc.). Tighten if necessary. Oil moving joints of brake mechanism.

WARNING: Do not lubricate throttle and / or brake cable or housing. Avoid getting oil on brake lining(s).

Driven Pulley

Remove cab and drive belt. Thoroughly clean the driven pulley shaft. Apply a light coat of low-temperature grease on shaft. Activate the sliding half several times to distribute grease on shaft. Activate the sliding half several times to distribute lubricant. Spray internal pulley surfaces with Ski-Doo metal protector.

NOTE: Leave drive belt off during entire storage period.

Battery

Remove battery from vehicle and clean outside surface of battery with solution of baking soda and water. Remove all deposits from posts then rinse with clear tap water.

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

Check electrolyte level. Refill if necessary with distilled water. Fully charge battery. (A stored battery should be recharged at least every 40 days).

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

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

Coat electrical connections and switches with a greaseless metal protector, if unavailable, use petroleum jelly. Store unit in a cool, dry place.

Chassis

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

CAUTION: Plastic alloy components such as windshield, console, 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 Ski-Doo dealer.

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 Ski-Doo 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.

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 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.

PRE-SEASON PREPARATION CHART

| To be performed by dealer 🌘 | |
|--|---|
| To be performed by owner O | |
| Change spark plugs | 0 |
| Check gear box oil level | 0 |
| Check pulleys, clean and check condition of drive pulley | • |
| Check steering adjustment / ski runner | 0 |
| Replace fuel filter | 0 |
| Connect fuel lines and check attaching points | 0 |
| Check track tension and alignment | 0 |
| Lubricate suspension | 0 |
| Inspect drive belt and install | 0 |
| Check throttle cable for damage and free operation | 0 |
| Inspect brake condition and operation | 0 |
| Inspect oil seals for possible cuts or leaks | • |
| Test battery clean and install | • |
| Set engine timing, if necessary, replace breaker points | • |
| Check electrical wiring (broken wire, damaged insulation) | 0 |
| Inspect condition of starting rope | 0 |
| Check tightness of all bolts, nuts and linkage | 0 |
| Refill gas tank | 0 |
| Adjust carburetor | 0 |
| Check fan belt condition and tension | • |

TROUBLE SHOOTING

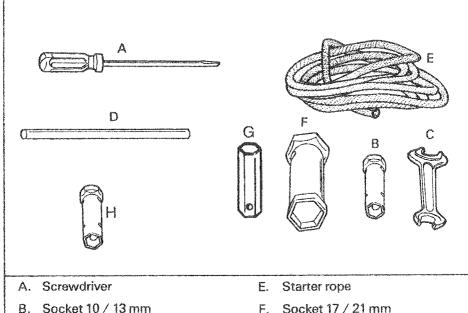
| SYMPTOMS | POSSIBLE CAUSES | WHAT TO DO |
|--|--------------------------------------|--|
| Engine turns over but fails to start or starts with difficulty | No fuel to the engine | Check the tank level and fill up with correct gas-oil mixture. Check for possible clogging of fuel line, item 5. |
| | 2. Sperk 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, re- place spark plug. If trouble persists, check item 3. |
| | 3. Faulty ignition | Disconnect spark plug wire from plug, un- screw the spark plug cap then hold wire about 3 mm ('x'') 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 carbure- tor (See Maintenance Section). If carbure- tor 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 pro- duce excessive engine wear resulting in poor engine compression. If this occurs, contact your dealer at once. |
| Engine will not turn manually | Seized engine | In the case of a seized engine contact your dealer. Seizure is a direct result of poor lu- brication. |

| SYMPTOMS | POSSIBLE CAUSES | WHAT TO DO |
|---|-----------------------------------|---|
| Engine lacks accelera- tion or power | Fouled or defective spark plug | Check item 2 of "Engine turns over but fails to start or starts with difficulty" |
| | Clogged fuel line (water or dirt) | Check fuel line condition. (See item 5 of "En- gine 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, con- tact your dealer. |
| Engine continually backfires | 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. |
| | 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. |

TOOLING

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

Standard Tools



- C. Open end wrench 10 / 13 mm
- D. Socket wrench handle

- F. Socket 17 / 21 mm
- G. Extension bar
- H. Socket 11 / 13 mm

SPECIFICATIONS

| SSS CONTRACTOR OF THE PROPERTY | A 1 055510 A 40 D Th |
|--|---|
| | ALPINE 640 ER |
| ENGINE No. of cylinders Bore Stroke Displacement Compression ratio Carburetor adjustment | 2 76 mm (2.292 in.) 70 mm (2.755 in.) 635.1 cm³ (38.76 in.³) N.A. |
| low speed mixture screw (normal operation) (heavy load) high speed mixture screw idle speed Engine head nuts (torque) Fan belt free-play | 1 ½ turn open + ½ - 0 1 ½ turn open + ½ - 0 1 ½ turn open + ½ - 0 1500-1800 R.P.M. 20 N _a m (15 ft-lbs) 6 mm (½ in.) |
| CHASSIS Overall length Overall width Overall height Ski alignment Handlebar / steering column bolt torque Weight Bearing area Ground pressure | 288.3 cm (113.5 in.) 88.9 cm (35 in.) 120 cm (47¼ in.) Ski perpendicular to handlebar 40-47 N _a m (30-35 ft-lbs) 281.2 kg (620 lbs) 13936.3 cm² (2160 in.²) 1.98 kPa (.287 lb-in²) |
| POWER TRAIN Track dimensions Track tension Track alignment Std. gearbox ratio Gearbox oil capacity Gearbox chain tension Drive belt (minimum width) | 2 x 38.1 cm (15 in.) x 353 cm (139 in.) A deflection of 57 mm (2½ in. ± ½ in.) should exist betweer the top inside edge of the track and the retaining bolt of the second bogie wheel set from the rear of the vehicle. Equal distance between edges of tracks and link plates. 17 / 38 454 mL (16 oz) 6 mm (½ in.) 3 mm (1½ in.) |
| ELECTRICAL Lighting system (output) Headlamp bulb Tail / stop light Spark plug Spark plug gap Advanced ignition timing — direct — indirect | 12 volts, 140 watts 60 / 60 W 5 / 21 W Bosch M 240 T1 0.5 mm (.020 in.) 3.7-4.2 mm (.145"165") 3.8-4.3 mm (.150"170") |
| FUEL Tank capacity — SI* — Imp. — U.S. Gasoline Gas / oil ratio | 22 liters 5 gallons 6 gallons Regular 50 / 1 |
| BRAKE Brake type Brake adjustment (control lever) Brake linings (minimum thickness) | Disc, self-adjusting 13 mm (½ in.) minimum distance from handlebar grip when fully applied. 5 mm (‰ in.) |

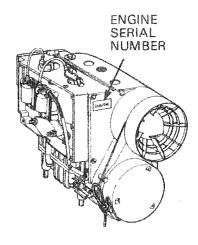
^{*}International Standard

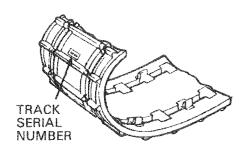
N.A.: Not applicable

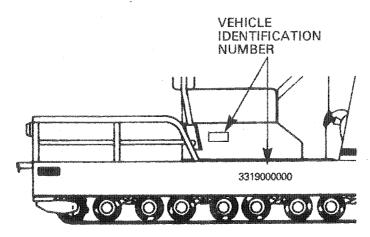
Bombardier Limited reserves the right to make changes in design and specifications and / or to make additions to, or improvements in its product without imposing any obligation upon itself to install them on its products previously manufactured.

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.







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 UN-USED, 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:

- 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:

- Damages resulting from installation of parts other than genuine BOMBARDIER parts.
- Damages 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.
- Damages 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.
- Vehicle used for rental purpose or other business purposes.
- All optional accessories installed on the vehicle.
 (The normal warranty policy for parts and accessories if any applies).

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

CONDITION TO HAVE WARRANTY WORK PERFORMED

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

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 waranties 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, J0E2L0

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, J0E2L0

*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 Récréstifs | CUSTOMER WARRANTY REGISTRATION ENREGISTREMENT DE LA GARANTIE |
|---|--|
| Model No./No du Modèle Serial No./N | o de série Engine Ser, No./No Sèr, du Moteur Track Ser, No./No Sèr, Chen, |
| | * * * |
| Dealer's Name Nam du Concessionnaire | Distributor Code: Dealer Code: Date of Sale! Code du distribut: Code du concess. Date de la vente |
| Customer Name Mr./M. | Fust Name/Prénom Family Name/Nom de famille |
| Nom du client Mrs. I Mrne Miss/Mile | 1 anny senserator de saring |
| Address/Adresse | |
| City/Ville | and the second of the second o |
| State/Province-Zip code/Code postal | |
| (Max (Arrange) | nufacturer's copy / Copie du manufacturier Pan no. / No de pesce 484 9258 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,



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.



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



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 LTD 3206 — 28th Street P.O. Box 159 Vernon, British Columbia V1T 6M2 (604) 545-1314 British Columbia

BOMBARDIER LIMITED

Eastern Canada Distribution Division
Atlantic Branch
7,0 Box 670
Shediac, New Brunswick, E0A 3G0
New Brunswick, Nova Scotia, Prince Edward Island,
Magdalan Island

BOMBARDIER LIMITED Eastern Canada Distribution Division Quebec Branch Valcourt, Québec, JOE 210 (514) 532-2211 Quebec, Esstern Ontario

BOMBARDIER LIMITED Eastern Canada Distribution Division Ontario Branch 28 Curris Street Barria, Ontario, L4M 452 (705) 728-8600 Ontario, Bess Eastern of Ontario

BROOKS EQUIPMENT 1616 King Edward Street P. O. Box 965 Winnipeg, Manitoba, R3C 2V8 (204) 633-7247 Manitoba, Saskatchewan

HUDSON'S BAY CO 165 Hymus Boulevard Pointe-Claire, Quebsc, M4W 1A8 (514) 697-8500 North-West Territories, Franklin District & Keewatin

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

TRACT EQUIPMENT LIMITED 14325, 114th Avenue Edmonton, Alberta, T5M 2Y8 (403) 452-9910 Alberta, Dist. McKenzie, Yukon, N.W.T.

AMERICAN DISTRIBUTORS

CRAIG TAYLOR EQUIPMENT CO. 733 Whitney Road P.O Box 3338 Anchorage, Alaska 99501 (907) 272-3577 Alaska

ELLIOTT & HUTCHINS INC. East Main Street Road Malone, New York (518) 483-4411

Connecticut, Delaware, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, Rhode Island, District of Columbia

TIMBERLAND MACHINCES INC 10 North Main Street Lancaster, New Hampshire 03584 (603) 788-4738 Maine, New Hampshire, Vermont

BOMBARDIER CORPORATION 4505 West Superior Street P.O. Box 6106 Duluth, Minnesota 55806 (218) 628-281 North Dakota, South Dakota, Mi

BOMBARDIER WEST INC

North Dakota, South Dakota, Minnesota, Wisconsin, Iowa, Illinois, Missouri, Michigan, Indiana, Ohio, Tennessee, Kentucky, West Virginia

809 West Broadway Idaho Falls, Idaho 83401 1208| 523-6870 California, Nevada, Montana, Idaho, Wyoming, Utah, Colorado, New Mexico, Arizona, Kansas, Nebraska, Washington, Oregon

THROUGHOUTTHEWORLD

BOMBARDIER-ROTAX 6mbH Vienna Branch, P.O. Box 86 Donaufelderstrasse 73-79 1210 Vienna Austria

COLBJORN SEN & CO. A / S P.O. Box 80, 1341 Bekkestua Norway

KY LAATUVAUNU Italahdenkatu 25 SF-00210 Helsinki 21 Finland

MOVAC AB BOX 791 5901 — 10, Umëa Sweden

| NOIES | | |
|--|---|--|
| | | |
| | • | |
| and the second s | | |
| | | THE PROPERTY OF THE PROPERTY O |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Control (State of State of Sta | | |
| | | The second secon |
| | | |
| ************************************** | | |
| | | |
| | | |
| | | ECT OF FEBRUARIES AND |
| | | |
| And the second s | | - |
| | | , |
| | | • |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

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 IDE | NTIFICATION NUMBER | | |
| OLD ADDRES | S: | | |
| ** | Appear made a complete despitation for appointment of a figure spital despitation and the spital a sec | NAME | |
| | NO | STREET | APT. |
| | CITY | STATE | ZIP / POSTAL CODE |
| NEW ADDRES | S.S. | | |
| | *d t a seathermannen s **Blendri virolade**188 frei Sirif-Aulade **Sirif-Billion virolade**188 frei Sirif-Aulade **Sirif-Billion virolade**188 frei Sirif-Aulade **Sirif-Billion virolade**188 frei Sirif-Aulade**188 frei Sirif-Aula | NAME | . A CENTRAL COME DE SENTENCIA DE COMETA LA COMETA |
| | NO | STREET | APT. |
| | CITY | STATE | ZIP / POSTAL CODE |
| | | | |
| CHANGE OF | OWASSSHIP | and the sense area area area only with the case area area area area. | BOAL GIVE STREE GOVER AND AND STATE |
| VEHICLE IDEN | OWNERSHIP ITIFICATION NUMBER hip of this vehicle is t | ransferred | tigal grow may large actic date action actio |
| The owners | VTIFICATION NUMBER | | the gro me, too act the oth the act the act act act act |
| VEHICLE IDEN | TIFICATION NUMBER | | |
| VEHICLE IDEN | VTIFICATION NUMBER | | APT. |
| VEHICLE IDEN | NTIFICATION NUMBER hip of this vehicle is t | NAME | APT. : |
| VEHICLE IDEN | NTIFICATION NUMBER hip of this vehicle is t | NAME STREET | |
| VEHICLE IDEN The owners FROM: | NTIFICATION NUMBER hip of this vehicle is t | NAME STREET STATE | |

BOMBARDIER LIMITED ATT.: WARRANTY DEPARTMENT VALCOURT, QUEBEC CANADA, J0E 2L0

BOMBARDIER LIMITED ATT.: WARRANTY DEPARTMENT VALCOURT, QUEBEC CANADA, J0E 2L0