

1982 OPERATOR'S MANUAL



NORDIK* SKANDIC*

(8) * Trademarks of Bombardier Inc.

All rights reserved © Bombardier Inc.

model	
V.I.N	
purchase date	
warranty expiry o	date
To be completed	by dealer at time of sale

DEALER IMPRINT AREA

TECHNICAL PUBLICATIONS AFTER SALES SERVICE BOMBARDIER INC. VALCOURT, QUEBEC CANADA, JOE 2L0 The following are trademarks of Bombardier Inc.

BOMBARDIER	EVEREST	MOTO-SKI
SKI-DOO	CITATION	FUTURA
ALPINE	OLYMPIQUE	SPIRIT
BLIZZARD	T'NT	NUVIK
CARRY-BOOSE	NORDIK	MIRAGE
ELAN	SKANDIC	SUPER SONIC
ELITE		ULTRA SONIC
GRAND PRIX SPECIAL		SONIC

FOREWORD

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

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

This manual uses the following 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.

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

A shop manual can be obtained for complete service, maintenance and repair information.

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 the engine without drive belt installed. Running an unloaded engine can prove to be dangerous.
- Never run the engine when the track is raised off the ground.
- It can be dangerous to run engine with the hood removed.
- Gasoline is flammable and explosive under certain conditions. Always manipulate in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity. If gasoline fumes are noticed while driving, the cause should be determined and corrected without delay.
- Maintain your vehicle in top mechanical condition at all times.
- Your snowmobile is not designed to be driven or operated on black top, bare earth, or other abrasive surfaces. On such surfaces abnormal and excessive wear of critical parts is inevitable.
- Your snowmobile is not designed to be operated on public streets, road or highways. In most States and Provinces, it is considered an illegal operation.

- Installation of other than standard equipment, including ski-spreaders, bumpers, pack racks, etc., could severely affect the stability and safety of your vehicle. Avoid adding on accessories that alter the basic vehicle configuration.
- The snowmobile engine can be stopped by activating the emergency cut-out switch, tether switch or by turning off the key.
- Whenever the vehicle is parked outdoors, overnight or for a long period, it is suggested to protect it against the inclemency of the weather with a snowmobile cover.
- Do not lubricate throttle and/or brake cables and housings.
- Only perform procedures as detailed in this manual. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.
- Clean and check operation of the headlight, taillight and brake light.
- PLEASE READ AND UNDERSTAND ALL WARNINGS AND CAUTIONS IN THIS MANUAL AND ON THE VEHICLE.

This vehicle is built with parts dimensioned in the metric system. All fasteners are metric and must not be replaced by customary fasteners. Mismatched or incorrect fasteners could cause damage to the vehicle or possible personal injury.

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

INDEX

THE 1982 "LIMITED WARRANTY"
OFTEN ASKED QUESTIONS
LISTING OF AREA DISTRIBUTORS
HOW TO IDENTIFY YOUR SNOWMOBILE
CONTROLS/INSTRUMENTS
Throttle lever, brake lever, parking brake, ignition light switch, headlamp dimmer switch, emergency cut-out switch, manual starter, handle, primer, tether cut-out switch, speedometer, trip meter, reset button, horn, hood opening, tool box, fuel gauge, spark plug holder, spare drive belt, hitch, ski tie down
BREAK-IN PERIOD
Break-in, inspection 10-hour, inspection checklist
FUEL
Recommended gasoline, recommended oil, fuel mixture ratio, fuel mixing proce- dure, fuel/oil mixing chart
PRE-START CHECK
Check points
STARTING PROCEDURE
Manual starting, emergency starting17
LUBRICATION
Frequency, steering mechanism, chaincase oil level, drive axle, suspension19
MAINTENANCE
Chart, drive belt, new drive belt, pulley guard removal, drive belt removal & in- stallation, brake condition, brake adjustment, brake light switch adjustment, spark plug(s), track condition, track tension and alignment, suspension condi- tion, suspension adjustment, drive pulley, steering mechanism, steering adjust- ment, muffler attachment, carburetor adjustment, fan belt, engine head nuts, en- gine mount nuts, headlamp beam aiming, bulb replacement, general inspec- tion
STORAGE
Track, suspension, skis, controls, chaincase, drive pulley, fuel tank and carbure- tor, cylinder lubrication, chassis, general inspection
PRE-SEASON PREPARATION
Pre-season preparation chart
TROUBLE SHOOTING GUIDE
TOOLS
SPECIFICATIONS
WIRING DIAGRAMS
SI METRIC INFORMATION GUIDE

1 - PERIOD

BOMBARDIER[®] INC. as manufacturer, warrants FROM THE DATE OF FIRST CONSUMER SALES, every 1982 SKI-DOO[®] snowmobile, sold as NEW AND UN-USED, by an authorized SKI-DOO dealer, for periods of:

- 12 consecutive months for ELAN[®], CITATION*, EVEREST[®], ELITE[®], ALPINE[®] models.
- 90 consecutive days for NORDIK*, SKANDIC*, BLIZZARD[®] 5500 MX and 9500 models subject to the following:
- 1. If delivery is made after the 31st day of March of a given year and before the 1st day of December of the same year, the above 90 day warranty will start on December 1st.
- If delivery is made on/or after the 2nd day of January of a given year but before the 31st day of March of the same year, all the unused portion of the 90 day period will be carried over to the next winter and start again on the 1st day of December of the same year.

2 - WHAT BOMBARDIER WILL DO

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

3 - CONDITION TO HAVE WARRANTY WORK PERFORMED

Present to the servicing dealer, the hard copy of the BOMBARDIER Customer Registration card received by the customer from the selling dealer at time of purchase.

4 - WARRANTY TRANSFER

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

5 - EXCLUSIONS - ARE NOT WARRANTED

- Normal wear on all items such as, but not limited to:
 - drive belts
 - slider shoes
 - spark plugs
 - breaker points
 - runners on skis
- Replacement parts and/or accessories which are not genuine BOMBARDIER parts and/or accessories.
- Damage resulting from installation of parts other than genuine BOMBARDIER parts.
- Damage caused by failure to provide proper maintenance as detailed in the Operator Manual. The labour, parts and lubricants costs of all maintenance services, including tune-ups and adjustments will be charged to the owner.
- A sulphated battery.

- Vehicles used for racing purposes.
- All optional accessories installed on the vehicle. (The normal warranty policy for parts and accessories, if any, applies).
- Damage resulting from accident, fire or other casualty, misuse, abuse or neglect.
- Damage resulting from 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.

6 - EXPRESSED OR IMPLIED WARRANTIES

This warranty gives you specific rights, and you may also have other legal rights which may vary from state to state, or province to province. Where applicable this warranty is expressly in lieu of all other expressed or implied warranties of BOMBARDIER, 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.

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

7 - CONSUMER ASSISTANCE

If a servicing problem or other difficulty occurs, we suggest 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 Inc. Service Department Recreational Products Valcourt, Quebec, Canada, JOE 2LO

January 1981 Bombardier Inc. Valcourt, Quebec, Canada, JOE 2LO

[®] *Trademarks of Bornbardier Inc.

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

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

A: When you bought your snowmobile the dealer should have completed, and forwarded us the manufacturer's copy of the Customer Warranty Registration. YOUR DEALER SHOULD HAVE GIVEN YOU THE HARD COPY OF THE WARRANTY REGISTRATION FORM.

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: Where can I find information on the lubrication and maintenance of my snow-mobile?

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

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

A: The warranty of the new snowmobile cannot be "Voided" or "Cancelled". However, if a particular failure is caused by operation or maintenance other than is shown in the Operator Manual, THAT failure may not be covered under warranty. This includes service work performed by the customer, especially the critical adjustments to ignition, timing, carburation and oil injection/or oil mixture.

Q: Would you give some examples of abnormal use or strain, neglect or abuse?

A: These terms are general and overlap each other in areas. Some specific examples may include: running the machine out of oil, chain failure caused by a lack of lubrication, operating the machine with a broken or damaged part which causes another part to fail, and so on. If you have any specific questions on operation or maintenance, please contact your dealer for advice. Q: What costs are my responsibility during the warranty period?

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

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

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

Q: If I sell my snowmobile within the warranty period, will the new owner qualify for the balance of the warranty?

A: Yes, provided the unit has already been registered with the manufacturer. Note that the change of ownership card in this manual should be completed and sent to Bombardier Inc.

Q: How can I receive the best owner assistance?

A: The satisfaction and goodwill of the owners of Bombardier products are of primary concern to your dealer and Bombardier Inc. Normally, any problems that arise in connection with the sales transaction or the operation of your snowmobile will be handled by your Dealers Sales or Service Departments. It is recognized, however, that despite the best intentions of everyone concerned, misunderstandings will sometimes occur. If you have a problem that has not been handled to your satisfaction through normal channels, we suggest that you discuss your problem with a member of dealership management. Frequently, complaints are the result of a breakdown in communications and can quickly be resolved by a member of the dealership management. If the problem already has been reviewed with the Sales Manager or Service Manager, contact the Dealer himself or the General Manager.

LISTING OF AREA DISTRIBUTORS

CANADIAN DISTRIBUTORS

ALPINE DISTRIBUTORS LIMITED Kalamalka Lake Road P.O. Box 159 Vernon, British Columbia, V1T 6M2 (604) 545-1314 **British Columbia**

BOMBARDIER INC. 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 INC. EASTERN CANADA DISTRIBUTION DIVISION (Quebec Branch) 1350 Nobel Boulevard Boucherville, Quebec, J4B 1A1 (514) 527-2469 or 655-6121 Province of Quebec

BOMBARDIER INC. EASTERN CANADA DISTRIBUTION DIVISION Ontario Branch 230 Bayview Drive Barrie, Ontario, L4N 4Y8 (705) 728-8600 **Province of Ontario**

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

HUDSON'S BAY CO. LTD. 165 Hymus Blvd Pointe-Claire, Québec, M4W 1A8 (514) 697-8500 North-West Territories, Franklin District & Keewatin J.W. RANDALL LIMITED West Street P.0. Box 1050 Corner Brook, Newfoundland, A2H 6G7 (709) 634-3533 Newfoundland, Labrador

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

AMERICAN DISTRIBUTORS

BOMBARDIER CORPORATION 4505 West Superior Street P.O. Box 6106 Duluth, Minnesota 55806 (218) 628-2881 North Dakota, Minnesota, Wisconsin, Illinois, Missouri, Michigan, Indiana, Ohio (less eastern half), Tennessee, Kentucky, West Virginia, Virginia, Northern Idaho, Northern Wyoming, Montana, Iowa, Washington.

ELLIOTT & HUTCHINS INC. East Main Street Road Malone, New York 12953 (518) 483-4411 New York, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New Jersey, Maryland, Delaware, District of Columbia, Eastern half of Ohio, Maine, New Hampshire, Vermont.

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

HOW TO IDENTIFY YOUR SNOWMOBILE

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







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.

CONTROLS/INSTRUMENTS



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

A) Throttle 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 Lever

Located on the left side of handlebar. When compressed, the brake is applied. When released, it automatically returns to its original position. Braking effect is proportionate to the pressure applied on the lever and to the type of terrain and it's snow coverage.

- G) Manual Starter Handle
- H) Primer
- I) Tether Cut-Out Switch
- J) Speedometer
- K) Trip Meter Reset Button
- L) Horn (Skandic)

C) Parking Brake (Skandic only)

Located on the right side of the handlebar. To immobilize vehicle, compress brake lever and turn clockwise the hexagonal lock until lever is blocked. To disengage the parking brake, compress lever, turn counter-clockwise the lock and release lever.

CAUTION: Always ensure that the parking brake is fully disengaged prior to ride the vehicle.

D) 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.

E) Headlamp Dimmer Switch

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

F) Emergency Cut-Out Switch



A 3 position switch located on the right side of the handlebar. To stop the engine in an emergency, flick the lever to either upper or lower "OFF" position. To start engine, lever must be in middle "ON" position.

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

The driver of this vehicle should familiarize himself with the function of this device by using it several times on first outing. Thereby being mentally prepared for emergency situations requiring its use. WARNING: If the switch has been used in an emergency situation the source of malfunction should be determined and corrected before restarting engine.

G) Manual Starter Handle

Auto rewind type located on right hand side of vehicle. For proper operation, refer to Starting Procedure p. 16.

H) 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.

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) Speedometer

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

K) Trip Meter Reset Button

To reset trip meter to zero, turn button counter-clockwise until all numbers read zero.

L) Horn (Skandic only)

Located on the left side of the handlebar. Press firmly to operate.

Hood Opening

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

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

WARNING: It is dangerous to run an engine with the hood open unfastened or removed. Personal injury could result.

Tool Box

Located under the hood. To gain access, tilt hood. Ideal location for spare rope, first aid kit, flash-light, etc...

Spark Plug Holder

Spare spark plugs can be carried in the special holes in the air silencer.



Fuel Gauge

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



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

Spare Drive Belt

Can be installed in belly pan clip.

WARNING: Always be careful not to burn yourself on the exhaust system when removing or installing drive belt.



Hitch



Fixed on the rear bumper, the hitch has two attachment points. A hook type and a plate type. A hair pin is supplied to lock the hook type attachment.

WARNING: When towing a sled or trailer, always ensure to lock the hook or plate type attachment with the hair pin.

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

Skis Tie Down (Skandic Only)

Two straps are fixed on each side of the frame above the footboard to securely attach a pair of skis.



Break-in

With Bombardier-Rotax snowmobile engines, a break-in period is required before running the vehicle at full throttle. Engine manufacturer recommendation is 10 to 15 operating hours. Maximum throttle should not exceed 3/4, however, brief full acceleration and speed variations contribute to a good break-in. Continued wide open throttle accelerations, prolonged cruising speeds, and lugging are detrimental during the break-in period.

NOTE: A new drive belt requires a break-in period of 15-25 km (10-15 miles).

10-Hour Inspection

As with any precision piece of mechanical equipement, 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.

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

10-HOUR INSPECTION CHECK LIST	✓
Engine timing	
Fan belt tension	
Spark plug(s) condition: (Remove and clean)	
Carburetor adjustment	
Engine head nuts	
Engine mount nuts	
Muffler attachment	
Chaincase oil level	
Brake operation and lining condition	
Ski alignment (runner condition)	
Steering arm, retorque to 42 N•m (31 ft-lbs)	
Handlebar bolts, retorque to 26 N•m (19 ft-lbs)	
Pulley alignment and drive belt condition	
Track condition, tension and alignment	
Lubrication (steering, suspension, drive axle)	
Electrical wiring (loose connections, stripped wires, damaged insula- tion), tighten all loose bolts, nuts and linkage	
Operation of lighting system (HI / LO beam, brake light, etc.), test operation of emergency cut-out switch and tether switch	

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

Use regular leaded or unleaded gasoline available from all service stations.

CAUTION: Never experiment with different fuel or fuel ratios. Never use naphtha, methanol, gasohol 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. 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 (40/1 during break-in period).

SI UNITS

500 mL oil to 25 liters = 50/1

IMPERIAL UNITS

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

1 can 500 mL oil to 51/2 imp. gals = 50/1

U.S. UNITS

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 manipulate in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity. If gasoline fumes are noticed while driving, the cause should be determined and corrected without delay. Never add fuel while the 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.



3. Replace the 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.

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 the vehicle in a warm area. At certain temperatures, gasoline will expand and overflow. Always wipe off any gasoline spillage from the snowmobile.

FUEL/OIL MIXING CHARTS (50 to 1 ratio)



USE BOMBARDIER CONCENTRATED OIL

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 steering operates freelv.
- 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.

Manual Starting

- 1. Insert the key in the ignition switch and turn to ON position.
- 2. TEST THROTTLE CONTROL LEV-ER.
- 3. Activate the primer (2 or 3 times).

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

4. Make sure that the tether cut-out cap is in position and that the cord is attached to your clothing. Check that the emergency cut-out switch is in the center ON position.



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



WARNING: Do not apply throttle while starting.

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

WARNING: If engine does not shut-off when applying the emergency cut-out switch and 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 the pulley guard from vehicle.

Refer to pulley guard removal procedure page 22.

Assemble the emergency starting handle to the emergency starting rope and wind the emergency rope tight around the drive pulley between the sliding half and the roller guard. Start the engine as per usual manual starting procedure. 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. Do not wind starting rope around your hand. Hold rope by the handle only.







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 retains safe and dependable operation.

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.

Steering Mechanism

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

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



Oil spring coupler bolts.



Chaincase Oil Level

Check the oil level by removing the oil level cap plug.



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

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

Drive Axle

Lubricate at grease fitting using low temperature grease.



CAUTION: When lubricating the drive axle bearing, do not apply excessive grease to avoid pushing the seal out of its housing.

Check the seal position with finger.



Suspension

Lubricate idler wheels at grease fittings until grease appears at joints. Use low temperature grease only.



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 fre-

quently.

MAINTENANCE

The following Maintenance Chart indi cates 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.

MAINTENANCE CHART	Weekly or every 240 km (150 m)	Monthly or every 800 km (500 m)	Once a year or every 3200 km (2000 m)	Refer to page
Drive belt condition	•			22
Brake condition	•			
Brake adjustment		•		24
Spark plug(s)		•		24
Track condition		•		25
Track tension and alignment		•		25
Suspension condition		•		26
Suspension adjustment		•		26
Drive pulley		•		27
Steering mechanism		•		27
Steering adjustment		•		27
Muffler attachment		•		28
Carburetor adjustment			•	28
Fan belt			•	28
Engine head nuts			•	28
Engine mount nuts			•	28
Headlamp beam aiming			•	29
General inspection		•		29

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

Drive Belt Condition

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

Check the drive belt width. If less than 2.7 cm (1 $_{1/16}$ in), replace the drive belt.

New Drive Belt

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

O NOTE: Always store a spare belt in a manner to allow its natural shape to be maintained.

BELT & GUARD REMOVAL

Pulley Guard Removal

WARNING: Pulley guard should always be in place when engine is running.

- A. Raise the hood and remove the retaining clip of the rear pin and remove the pin.
- B. Pull the guard out of the center retaining bolt.
- C. Remove the guard.





Drive belt removal and installation

WARNING: At the removal or installation of the drive belt be careful not to burn yourself on the exhaust muffler.

- 1. Remove the pulley guard.
- 2. Loosen the countershaft bearing retaining screw and open the bearing cage.



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



4. Slip the belt over the top edge of the sliding half.



5. Lift the countershaft upward approx. 50 mm (2 in.) and slip the belt between the shaft and the bearing cage to remove completely.



NOTE: It may be necessary to loosen the brake adjustment in order to easily lift the countershaft.

Slip the belt out from the drive pulley.



WARNING: After drive belt installation, always check that the brake disc is correctly installed between the brake pads and that the brake is well adjusted. Check brake light operation.



To install the drive belt, reverse the procedure.

CAUTION: Once belt is installed, be sure to secure the countershaft bearing by closing the bearing cage and firmly tightening the retaining screw.

Brake Condition

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

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



Brake Adjustment

Brake should apply fully while brake control lever is still 13 mm (1/2'') approximative from the handlebar grip.

If adjustment is required, turn the brake cable adjuster counter-clockwise until the brake disc is hard to turn then back off the adjuster to approximately 1 1/2 turn. Recheck brake operation.



WARNING: Whenever the brake is readjusted, the brake light switch operation must also be checked and adjusted as needed.

Brake Light Switch Adjustment

To check operation:

Pull the brake lever to hold the pads on the disc. Check that a light resistance is felt while rotating the driven pulley. This is the position where the switch should have lit the brake light.

To adjust:

- Loosen the brake switch lock nut.
- Holding brake lever at the lit position, unscrew the switch to light on or screw it in to put out the light.



 Tighten the brake switch lock nut and recheck brake light operation.

Spark Plug(s)

Disconnect the spark plug wire(s) and remove the spark plug(s).

Check the condition of the plug(s).

- 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 plug(s) and connect wire(s).

Track Condition

Lift the rear of the vehicle and support it off the ground. With the engine off, rotate the track by hand, and inspect condition. If worn, 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.

Track Tension and Alignment

Tension:

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



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

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



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

Alignment:

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



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

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



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



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.

Suspension Adjustment

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 the skis.



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

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



Steering Mechanism

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

Torque steering arm bolts to 42 N•m (31 ft-lbs).



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

Steering Adjustment

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

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

If adjustment is required:

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



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

To adjust:

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

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



Muffler Attachment

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

Carburetor Adjustment

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



A) Air Screw Adjustment

Completely close the air screw (until a slight reseating resistance is felt) then back off screw as specified p.

B) Idle Speed Adjustment

Turn the idle speed screw clockwise until it contacts the throttle slide then continue turning two (2) additional turns. This will provide a preliminary idle speed setting. Start the engine and allow it to warm then adjust the idle speed as per specifications by turning the 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.

Fan Belt

Inspect belt for cracks, uneven wear, etc. Check fan belt tension, 6 mm (1/4'') 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.

Engine Head Nuts

With the ENGINE COLD, check that the engine head nuts are tight and equally torqued to 22 N•m (16 ft-lbs).



Following sequence above shown, torque engine head nuts twice.

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

Engine Mount Nuts

Check the engine mount nuts for tightness. Retighten if necessary.

Headlamp Beam Aiming

The angle of the headlamp beam has been pre-adjusted prior to delivery. Should you wish re-adjustment, place the 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 the four caps, turn upper or lower adjusting screws to obtain desired beam position.



Headlamp Bulb Replacement

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



Taillight Bulb Replacement

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

WARNING: Always check light operation after bulb replacement.

General Inspection

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

STORAGE

It is during summer, or when a vehicle is not in use for any length of time that proper storage is a necessity. Storage of the snowmobile during long 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 the track for wear, cuts, missing track guides and broken rods. Make any necessary replacement.

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

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

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

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

Suspension

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

Skis

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



Controls

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

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

Coat all electrical connections and switches with a greaseless metal protector. If unavailable, use petroleum jelly.

Chaincase

Drain the chaincase and refill to proper level, using fresh chaincase oil. To drain, remove the chaincase cover.

Drive Pulley

The drive pulley should be cleaned and inspected.

WARNING: The lubrication and/ or inspection of the drive pulley should be performed only by an authorized dealer.

Fuel Tank and Carburetor(s)

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

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

Carburetor(s) 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(s) from carburetor(s). Drain carburetor(s) and reinstall plug(s).



Connect fuel lines. Replace if necessary.

Cylinder Lubrication

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

Use storage oil (8 oz) P/N 413 9048 00. Protection will last for the normal storage period.

Procedure:

- Insert plastic tube in spray head nozzle.
- Remove air silencer.
- Run engine at idle speed.
- Spray storage oil directly into carburetor until engine stalls.





If adequate ventilation is not available.

 Remove spark plugs and spray approximately 1 ounce of storage oil in each spark plug hole and in each carburetor.

CAUTION: Ensure cut-out switch and/or ignition key is in OFF position.



- Crank engine over several times.

- Reinstall plugs.

Do not run engine during storage period.

Chassis

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

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

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

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

CAUTION: Cover the snowmobile with an opaque tarpaulin. This will prevent the sun rays or grime from affecting the plastic components and vehicle finish.

General Inspection

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

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

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

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*		0
Check chaincase oil level		0
On vehicle equipped with fuel filter cartridge, replace ca	rtridge	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
Check steering alignment and ski runner condition		0
Inspect seals for possible cuts or leaks		0
Check electrical wiring (broken wire, damaged insulatio	n)	0
Inspect condition of starting rope		0
Check tightness of all bolts, nuts and linkage		0
Refill gas tank		0
Inspect brake condition and operation		•
Set engine timing		٠
Check pulleys, verify components and clean. Lubricate.		•
Adjust carburetor(s)		•

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

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

NOTE: The possible causes have been listed in an order of frequency. Therefore, items should be checked out in the same order as mentioned¹ in the trouble shooting guide.

SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
Engine turns over but fails to start or starts with difficulty	1. No fuel to the engine	Check the tank level. Check for possible clogging of fuel line, item 4.
	2. Flooded engine	Remove wet spark 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.
	3. Spark plug/ ignition	Check for fouled or defective spark plug. Dis- connect spark plug wire, unscrew plug and re- move from cylinder head. Reconnect wire and ground exposed plug on engine cowl, being careful to hold away from spark plug hole. Follow engine starting procedure and check for spark. If no sparks appear, replace spark plug. If trouble persists, contact your dealer.
	 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.
	5. Carburetor	Contact your dealer for repair.
	6. Too much oil in fuel	Contact your dealer.
	7. Engine timing	Engine timing may be incorrect or out of ad- justment. Contact your dealer.
	8. Engine compression	Running with a lean fuel mixture may produce excessive engine wear resulting in poor engine compression. If this occurs, contact your dealer at once.
Engine will not turn manually	1. Seized engine	In the case of a seized engine contact your dealer.

SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
Engine lacks accelera- tion or power	1. Fouled or defective spark plug	Check item 3 of "Engine turns over but fails to start or starts with difficulty"
	 Clogged fuel line (water or dirt) 	Check fuel line condition. (See item 4 of "En- gine turns over but fails to start or starts with difficulty").
	3. Carburetors	Contact your dealer.
	4. Ignition	First check item 3 of "Engine turns over but fails to start or starts with difficulty". If the ignition system still seems faulty, contact your dealer.
	5. Engine	If unable to locate specific symptoms, contact your dealer.
Engine continually backfires	1. Faulty spark plug	Check item 3 of "Engine turns over but fails to start or starts with difficulty".
	2. Overheating	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. Engine	Check item 1 to 5 of "Engine lacks acceler- ation 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



- A. Screwdriver
- B. Socket 21/26 mm
- C. Socket 10/13 mm
- D. Socket handle
- E. Angular wrench 10/13 mm
- F. Starter rope
- G. Emergency starter rope handle

SPECIFICATIONS

	NORDIK	SKANDIC
ENGINE	· · · · · · · · · · · · · · · · · · ·	
No. of cylinders	2	2
Bore	62 mm (2.44'')	62 mm (2.44'')
Stroke	61 mm (2.40'')	61 mm (2.40'')
Displacement	368.3 cm ³ (22.47 in ³)	368.3 cm ³ (22.47 in ³)
Compression ratio	6.9:1	6.55:1
(corrected)		
Maximum R.P.M.	7500	7500
Carburetor type	VM 34	2 x VM 34
Carburetor adjustment:		
 air screw idle speed 	1 1/2 turn	1 1/2 turn
	1800-2000 RPM	1800-2000 RPM
Torque:		
 engine head nuts 	22 N•m (16 ft-lbs)	22 N•m (16 ft-lbs)
 crankcase nuts 	M6 9 N•m (6 ft-lbs)	M6 9 N•m (6 ft-lbs)
	M8 22 N•m (16 ft-lbs)	M8 22 N•m (16 ft-lbs)
 magneto ring nut 	85 N•m (62 ft-lbs)	85 N•m (62 ft-lbs)
— fan nut	65 N•m (48 ft-lbs)	65 N•m (48 ft-lbs)
 crankcase engine 	38 N•m (27 ft-lbs)	38 N•m (27 ft-lbs)
support nuts		
 exhaust manifold bolts 	22 N•m (16 ft-lbs)	22 N•m (16 ft-lbs)
	274 (107 a ((1))	200 F am (114//)
Overall length Overall width	274 cm (107 3/4'') 90.5 cm (35 1/2'')	289.5 cm (114'') 96.5 cm (38'')
	130.8 cm (35 1/2)	108 cm (38)
Overall height Ski stance	76.2 cm (30'')	82 cm (32 1/4")
(center to center)	70.2 Cill (30)	02 CHI (32 1/4)
Ski alignment (toe out)	3.0 mm (1/8'')	3.0 mm (1/8'')
Torque:	5.0 mm (1/8 /	5.0 mm (7/8 /
 steering arm/ski leg 	43 N•m (32 ft-lbs)	43 N•m (32 ft-lbs)
bolt	40 14-111 (02 11-103)	40 14-111 (02 12-103)
 steering column/ 	26 N•m (19 ft-lbs)	26 N•m (19 ft-lbs)
handlebar	20 14-111 (10 12 100)	20 10-11 (10 12 100)
Dry weight	172 kg (380 lbs)	193 kg (426 lbs)
Bearing area	6865 cm ² (1064 in ²)	7579 cm ² (1175 in ²)
Ground pressure	2.46 kPa (.357 PSI)	2.50 kPa (.363 PSI)
POWER TRAIN		
Track:		
– width	38.1 cm (15'')	38.1 cm (15'')
 length 	315 cm (124'')	353 cm (139'')
- tension	13 mm (1/2") gap betw	een slide shoe and bottom inside of
	-	track.
 alignment 	Equal distance betwee	en edges of track guides and slider
		shoes.
Standard gear ratio	14/35	14/35
Drive belt:		
– number	414 3758 00	414 3758 00
 Max. width 	33.3 mm (1 5/16'')	33.3 mm (1 5/16'')
 Min. width 	30.1 mm (1 3/16'')	30.1 mm (1 3/16'')
	200 mL (7 oz)	200 mL (7 oz)

ELECTRICAL Lighting system (output))	12 volts/160 watts	112 volts/160 watts
Bulb: – headlamp – tail/stop – speedometer – tachometer	60/60 W 5/21 W 5W 5W (optional)	60/60 W 5/21 W 5W 5W (optional)
Fuse: — tachometer Spark plug — type	0.1 A NGK BR-8ES	0.1 A NGK BR-8ES
 — gap Ignition timing: — timing mark (B.T.D.C.) — stroboscopic timing 	.4 mm (.016′′) 2.52 mm (.099′′) (20°) 6000 RPM	.4 mm (.016′′) 2.52 mm (.099′') (20°) 6000 RPM
FUEL Gas type Fuel tank capacity	Regular I	eaded or unleaded
– Si – Imp. – U.S. Oil type	28.4 litres 6.25 gals 7.8 gals Bombard	28.4 litres 6.25 gals 7.8 gals lier snowmobile oil

٦

BRAKE	· · · · · · · · · · · · · · · · · · ·	
Туре	Disk	Disk
Lining minimum thickness	3 mm (1/8'')	3 mm (1/8")
Control lever adjustment	13 mm (1/2") minimum distance from handlebar grip when fully applied.	

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

WIRING DIAGRAM



SI* METRIC INFORMATION GUIDE

BASE UNITS

DESCRIPTION	UNIT	SYMBOL
length	meter	m
mass	kilogram	kg
liquid	liter	L
temperature	celsius	°C
pressure	kilopascal	kPa
torque	Newton meter	N∙m
speed	kilometer per hour	km/h

PREFIXES

PREFIX	SYMBOL	MEANING	VALUE	
kilo	k	one thousand	1,000	
centi	С	one hundredth of a	0.01	
milli	m	one thousandth of a	0.001	

*THE INTERNATIONAL SYSTEM OF UNITS (SYSTEME INTERNATIONAL) ABREVIATES "SI" IN ALL LANGUAGES.

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.

VEHICLE IDENTIFICATION NUMBER						Π		
OLD ADDRESS:				-				
	NAME							
	NO	STREET APT.						
	CITY	STATE			ZIP / POSTAL CODE			
NEW ADDRESS:								
		NAME					···	
	NO	STREET					APT.	
	CITY	STATE		ZIP / POSTAL CODE				
CHANGE OF OW	/NERSHIP	•••••		••••	••••	•••••	~	
VEHICLE IDENTIFICATION NUMBER				1				
	this vahicla is tra	nsferred						
The ownership of								
The ownership of FROM:		NAME						
			<u>.</u>		-		APT	
		NAME			-	ZIP / POS	APT GTAL CODE	
	NO	NAME			-	ZIP / POS		
FROM:	NO	NAME STREET STATE			-	ZIP / POS		

BOMBARDIER INC.

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

BOMBARDIER INC.

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