



We wish J. Armand Bombardier could be around to see that millionth machine come off the production line this year. What would the inventor of the snowmobile think about today's jetage styling? Or the incredible technical advances under the sleek cowling? We think he'd be amazed – and proud.

In this year of the millionth machine, J. Armand Bombardier would have a lot to be proud about. First of all, a million is an impressive number of machines. But there's something more important than quantity. The Ski-Doo* line-up of today reflects all the experience and know-how gained from the making of a million machines.

At Bombardier, we've had time to learn all the tricks of power and flotation. We've found out the pitfalls of operating an engine in freezing conditions over every conceivable winter terrain. And our experience shows. It shows in Ski-Doo* styling, performance and dependability. Another thing our founder wouldn't recognize is the factory. From its start in a small garage, it's grown into the most advanced snowmobile factory in the world. Bombardier employs designers, engineers, specialists and craftsmen by the thousand. They put every Ski-Doo* through its paces, both in the versatile test laboratory, and on our outdoor speed track.

We've discovered that the best testing ground of all is the race track. We're in racing not only to win, but to learn. This year, we've been able to make some pretty impressive technical improvements to all our machines -- improvements made on the track to help you on the trail.

It adds up to a machine you can depend on, all the time. Your Ski-Doo* will give you excellent performance in all weathers, on all terrains. Look after it well, and it will serve you well. Your Ski-Doo dealer is always ready with information, parts and accessories. He is backed up by an international Ski-Doo distributor and Dealer network whose factory trained personnel are equipped to give you prompt and efficient service wherever you are in snow country.

Ride safe ... and have fun!

Laurent Beaudoin President Bombardier Limited

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Ski-Doo	T'NT	Bombardier
Ski-Boose	Élan	Elite
Nordic	Blizzard	Everest
Alpine	Carry-Boose	
PATENTS	and DESIGNS	

This vehicle is covered by one or more of the following patents and design registrations. Canadian Patents: 605, 317 - 710, 592 - 724, 395 - 853, 505 - 895, 749 - 897, 747 - 914, 457 - 916, 204 United States Patents: 2,899, 242 - 3,066,546 -3,536,153 - 3,637,254 - 3,666,323 3.673.884 - 3.693.884 - 3.693.992 3,704,918. Canadian Designs: D1/217 F/28172 -D1/249 F/31317 and 316 -D32,479 - D32,535 -D32,655 to 657 - D32,661 to '669 - 33,982 -33,933 - 34,006 and '007. United States Design Patents: Des. 221.332 to '334-Des 221,637 and '638-Des. 222,244 to '247 Others: Swedish Design No. 6038-Swiss Design No. 104,756-Norwegian Design No. 51,444. Other patent and design applications pending.

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WHAT YOU SHOULD KNOW . . . before first ride.

To many of us, Winter is a revealing experience. Weather, atmospheric conditions, snow surfaces, individual driving habits and vehicle usage have considerable affects. We ask that you familiarize yourself with them ... **read** the owner's manual; it has been prepared to acquaint you with the operation of your vehicle, its safety aspects and systems as well as preventative maintenance procedures that must be periodically upheld ... all aimed toward a more enjoyable Winter season.

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

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can prove to be dangerous.

- Never run the engine at high R.P.M. when the tracks of the vehicle are raised off the ground.
- It can be dangerous to run engine with the cab open.
- Prolonged sitting while riding over rough terrain may cause kidney and/or spinal discomfort, specially for the driver or passenger having an existing back weakness.
- 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.
 Under no circumstances should you wear loose clothing or scarves that could become entangled with moving

parts of your snowmobile.

• 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.

• Hidden telephone guy wires or roadside ditches can cause serious accidents.

• Your snowmobile **is not** designed to be driven or operated on black top, bare earth, or other abrasive surfaces. Abnormal and excessive wear of critical parts is inevitable.

• Always wear an approved snowmobile safety helmet. Be informed on local laws legislating the sport.

• Maintain your vehicle in top mechanical condition at all times.

Please read and understand all other warnings contained elsewhere in this manual.



SERVICE AREAS



We recommend you contact your local Authorized Ski-Doo dealer when your Ski-Doo snowmobile requires service. However, for further inquiries, you may contact your Regional Distributor listed below

HALVORSON INCORPORATED North Dakota AMERICAN DISTRIBUTORS CANADIAN DISTRIBUTORS 325 South Lake Avenue. South Dakota Coverage Area Name of Distributors Coverage Area Name of Distributors Duluth 2, Minn, 55802 Minnesota ALPINE DISTRIBUTORS. British Columbia **BOMBARDIER EAST INC.** Massachusetts Wisconsin 3206 - 28th Ave . Vernon, B.C. Railroad St. Lee. Connecticut lowa. Illinois Massachusetts 01238 Rhode Island Prince Edward Island ATLANTIC SKI-DOO LTD. Missouri P.O. Box 670 Shediad, N.R. California New Mexico Magdalen Island BOMBARDIER WEST INC Upper Michidan Nova Scotia 609 West Broadway. Nevada Arizona New Brunswick Idaho Falls, Idaho 33401 Montana Kansas HEATH INTERNATIONAL INC. Lower Michigan idaho. Nebraska BOMBARDIER ONTARIO LTD Octario 33737 - 32 Mile Road. Indiana Wyoming Washington 28 Currie St. Barrie Opt. Richmond, Mich. 48062 Ohio Oregon Utah Tennessee Colorado ROMBARDIER OHE LTD. Quebec Kentucky 1350 Nobel St. Boucherville, Que. W. Virginia BROOKS EQUIPMENT LTD. Manitoba CRAIG TAYLOR FOUIPMENT CO. Alaska Maine TIMBERLAND MACHINES INC. Box 985, Winnipeg 21, Man. Saskatchewan P.O. Box 3338. Anchorage. New Hampshire 10 Main St. North, Lancaster, Alaska 99501 HUDSON'S BAY CO. North-West Vermont New Hamoshire 03584 121 Richmond W Territories FILIOTT & HUTCHINS INC. New York Toronto, Ont. Fast Main Street Road. Pannsvivania J. W. RANDALL LTD. Newfoundland Malone, New York 12953 New Jersev P.O. Box 757 Corner Brook Maryland Newfoundland Delaware District of Columbia TRACT EQUIPMENT LTD. Yukon Virginia 14325 - 114th Ave. Alberta Edmonton Alta



DO'S

Register your Ski-Doo snowmobile at your nearest Licensing Bureau, where State or Provincial Laws require it, and affix registration to the vehicle. Carry your registration certificate with you. It provides proof of ownership in the event that the vehicle becomes lost or stolen.

• Obtain your State or Provincial booklet on snowmobiling. It gives valuable information on the neighbouring snowmobile trails and the laws governing snowmobiling in your particular area.

• Observe all posted snowmobile signs. Not all private landowners allow snowmobiling on their property. You can have just as much fun, even more so, by traveling elsewhere. • When with others, limit your actions to the experience of the main body. Show the inexperienced driver how to properly handle a snowmobile.

• Always travel with at least one other snowmobile, especially in unfamiliar terrain or on trail rides. Even in snowmobiling, a pair beats one of a kind.

• If you are planning to explore new areas, leave word of your approximate whereabouts and estimated time of return with someone.

 Always make a full stop then look carefully in both directions before crossing roads. When traveling in pairs or in a group, have one member direct the others across singly. • Use a rigid hitch or tow-bar when pulling any sled or trailer behind your Ski-Doo snowmobile. Rigid hitches prevent tailgate collision when going downhill or on sudden stops.

 Be extremely careful when giving children a ride. Go more slowly and check frequently. Small children, are far safer in a Ski-Boose* sled than on the seat of your snowmobile.

• When trailering your Ski-Doo snowmobile, secure it solidly at both ends, protect it with a bright cover (Ski-Doo* cover) then check that trailer hitch and safety chain are secure and that brake, flashers, position and parking lights are all in working order.



• Don't cut across in front of the line of travel of another snowmobile. Don't tailgate; collision, or the threat of it, is serious with any moving vehicle.

• Don't risk injury or damage to your machine with needless and foolish stunting. Don't ''jump'' your snow-mobile. This part of snowmobiling should be left to the professional ''stunt'' men.

• Never ride on railway tracks. The sound of your moving vehicle drown out noise of approaching trains. Your vehicle may also become caught in track junctions. In many States and Provinces snowmobiling on railway tracks constitutes an infraction of the law.

• Never cut through fences or attempt to run over them.

• Don't cross a river or lake without first being positive that the thickness of the ice is sufficient to support both you and your vehicle. **Your life may depend on it.** If at all in doubt, take an alternate route.

• Unless you are certain of a fueling stop, never travel further than ½ of the fuel remaining in your tank. Even then, leave yourself a safety margin. Remember that a snowmobile does not necessarily travel the same distance each time on the same amount of fuel. A lot depends on speed, snow conditions of the trail and adjustment of the carburetor.

• Don't drive your snowmobile in the vicinity of skiers and keep off ski trails. Always respect the rights of those who enjoy winter in another way. • "If you drink don't snowmobile! If you snowmobile, don't drink!" Remember alcohol and gasoline don't mix.

• Don't lend your snowmobile to inexperienced or under-age drivers. In many cases it is the vehicle owner and not the rider that is responsible for mishaps. Check State or Provincial minimum age limits for drivers.

• Don't leave your keys in the ignition switch. It presents an invitation to thieves and a danger to children.

• Don't get hands or feet in track or moving parts. If your vehicle gets. 'bogged' down, stand to one side, squeeze the throttle lightly, lift the rear grab handle, and walk out the machine.



GOOD DRIVING TECHNIQUE

Everyone knows, or should know, the difference between a good snowmobiler and a poor one. Most beginners think that snowmobiling is just a matter of starting the engine and riding away. It's not so. There are right and wrong ways to go about it. Here are some of the preferred methods.

Tips

Where possible, enter a snowmobile training program. Thoroughly know your vehicle and how to drive it before attempting difficult or rapid manceuvers.

Driving Positions.

There are three driving positions on a snowmobile—Standing, Kneeling or Sitting. Each presents certain advantages depending on the nature of the terrain, snow conditions, the turns you desire or the personal preference of the driver.

Standing—This position is undoubtedly the best for climbing steep hills, traveling a short stretch of bumpy trail or when manoeuvering in deep snow. In this position, however, always keep your knees slightly flexed to absorb surface shocks. **Kneeting**—crossing a steep slope, for example, from side to side, you will find the kneeting position a definite advantage. Place one foot on the footboard (on the high side of the hill), the opposite knee on the seat then lean into the hill.

Warning: Side hills and steep slopes are not recommended for a beginner.

An alternate recommended kneeling position and one that is frequently used, is to place both knees on the seat, with one foot on each side, loosely pressing against the seat.



Sitting—for all normal driving. Feet should be on the footboards, body midway back on the seat. **Avoid** placing your foot inside the support braces of the footboard.

Warning: Prolonged sitting while riding over rough terrain may cause kidney and/or spinal discomfort, specially for the driver or passenger having an existing back weakness.

Turning.

To snowmobile properly you must learn to "body english", (using the weight or position of your body). Shifting to left or right as the turn demands and keeping your center of gravity as low as possible will give you the mark of an experienced snowmobiler.

Moving your body weight toward the front of the vehicle, particularly in hardpacked snow, adds pressure to the skis and ski runners so that they bite more deeply into the snow surface.

Icy Surface.

Ice or extremely hard-packed snow can be difficult to negotiate as both skis and track do not have much traction. Best advice is to slow down and avoid rapid acceleration or braking.

Deep Snow.

Use the standing position recommended earlier and if your vehicle continues to make reasonable headway, responding to light changes in acceleration, you are safe enough to explore new areas. If not, turn in as wide an arc as possible and look for firmer trails.



CONTROLS/INSTRUMENTS

Steering

Rotation of the handlebar causes a push-pull action on the steering linkage and forces the skis to turn in the required direction.

Throttle Lever (A)

When depressed, the lever controls the engine speed and the engagement of the transmission. When lever is released the engine speed returns automatically to idle.

Brake Lever (B)

When lever is depressed, the brake is applied. When released, it automatically returns to its original position. Braking effect is proportionate to the applied pressure on the lever.

Ignition Switch (C)

Key operated, 3 position switch (OFF/ON/START). To start engine, turn key fully clockwise to START position and hold. Return key to ON position **immediately** engine has started.

Headlamp Dimmer Switch (D)

The dimmer switch allows correct selection of headlamp beam. To obtain Hi or Low beam simply depress switch. A Hi beam indicator is mounted in the tachometer dial.

Note: The angle of your headlamp beam has been pre-adjusted prior to delivery. Should you wish readjustment, turn upper or lower adjusting screws to obtain desired beam position.

Kill Button (E)

For emergency stops, press button down into **lower** position. Before restarting 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. After such a situation, the source of malfunction should be determined and corrected **before** re-starting engine.

Lighter (F)

Push in to activate, lighter pops up automatically when lit.



Gear Shift Lever (G)

Three position lever. (FORWARD/ PARK/REVERSE). Push down for forward, center for park and up for reverse. Warning: Do not re-position gear shift lever while snowmobile is in motion.

Choke (H)

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

Headlamp Retract Lever (J)

Two position (PUSH/PULL) lever. To expose headlamp, pull lever. Push to retract.

Light Switch (K)

With engine running, engage switch to

illuminate both headlamp and taillight.

Tachometer (L)

Direct-reading dial indicates (in thousands), the number of revolutions per minute (R.P.M.), of the engine.

Fuel Gauge (M)

Direct-reading dial indicates the amount of fuel in the tank.

Speedometer (N)

Direct-reading dial indicates the speed of the vehicle in miles per hour (M.P.H.). 6-digit odometer records the number of miles travelled.

Upper Access Door Lock (O)

To gain access to spark plugs, turn door lock then lift door and remove.

Manual Starter

Auto-rewind type located at lower right side of console. To start engine, pull handle, (See Starting Procedure).

Lower Access Door

Lift lower access door to gain access to carburetor.

Caution: Serious engine damage may occur if your vehicle is operated with the carburetor air intake tube removed.

Rear Compartment

Recessed underseat compartment. Ideal location for spark plugs, belt, rope, etc. Pressure lock fastened. To adjust, simply tighten or slacken adjusting nut.

Tips

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





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FUEL MIXING

With Ski-Doo snowmobiles, the 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.

Which Gasoline to Use

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

Caution: Never experiment with other than recommended fuels or fuel ratios. Never use no lead gasoline [†], naphta, methanol or similar products.

* Tests are not conclusive enough therefore we do not recommend the use of no-lead gasolines.

Which Oil to Use

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

Caution: The carburetors of the 1974 Ski-Doo snowmobile have been calibrated for a mixture of gasoline and concentrated Ski-Doo oil.

Unless absolutely necessary, do not use regular snowmobile oil. If such oil is used, observe mixing instructions on the container. Never use outboard or straight mineral oils.

Fuel Mixing Ratio

The importance of using the correct fuel mixture cannot be overstressed. Prior experience has shown that an incorrect fuel ratio results in serious engine damage. The correct fuel/oil ratio is 50/1.

5 gallons recommended gasoline plus 1 can of Ski-Doo concentrated oil = correct fuel mixture.

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



FUEL MIXING

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

2. Add the full amount of concentrated Ski-Doo oil.

- 3. Shake the container thoroughly.
- 4. Add the remainder of the gasoline.

5. Once again thoroughly agitate the container. 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.

Fuel consumption

A good idea is for you to rate the fuel consumption of your snowmobile at the first opportunity. Starting with a full fuel tank, mark the time of your departure then note time elapsed until tank is half-full. Repeat on different occasions to get a mean average of your snowmobiles' consumption and length of running time under varying conditions.



BREAK-IN PERIOD

PRE-START CHECK

With Ski-Doo snowmobile engines, a break-in period is required **before** running the vehicle at full throttle. Manufacturer's recommendation for the Bombardier-Rotax engine is 10 to 15 operating hours. During this period, maximum throttle should not exceed ³/₄. However, brief full accelerations 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.

Inspection

After the break-in period, we suggest that each Ski-Doo snowmobile has an inspection check. This inspection is at the discretion and expense of the vehicle owner.

Fuel Tank Quantity

Check that there is sufficient fuel in the tank for your trip. A good habit to acquire is to refill the tank before starting out each day.

Since mixed fuel has a tendency to settle overnight, agitate the fuel in the tank by standing on the footboards and rocking the vehicle from side to side. Track (Daily, before first run)

Under certain climatic conditions, the track of a snowmobile left outdoors overnight may freeze to the ground or snow surface. Always make sure that the track is free before attempting to start the vehicle. (This procedure will eliminate unnecessary drive belt wear).

Steering Operation

Check operation of steering mechanism by rotating the handlebar several times from side to side. If roughness or binding is felt, check for ice or snow that may be blocking the mechanism.



IN CASE OF EMERGENCY

Throttle and Brake

Depress and release levers several times to check that they operate easily and smoothly. The throttle lever should return to the idle position when released. The brake lever should be fully applied when it has minimum clearance from the handlebar grip (see Maintenance. Brake). If the levers do not return swiftly, remove cables and/or housings and replace. Re-check lever operation.

Warning: Throttle mechanism should be checked for free movement before starting engine. Once all components are checked and functioning properly, you can start your Ski-Doo snowmobile.

Emergency situations are accepted hazards with any moving vehicle. A hidden rock or stump on the trail, a burnt light bulb while driving at night, an empty fuel tank while miles from anywhere. can all cause varying degrees of inconvenience. Unlike an automobile, which has a distinct advantage in that service stations are usually within walking distance, snowmobiles are specifically designed to travel off the highways. When the unexpected happens, the driver often has only his own ingenuity and that of his companions to return home safely. Fortunately, 9 out of 10 difficulties encountered on the trail can be fixed on the spot. However, you must carry at least a minimum assortment of Tools and Spare Parts to enable you to effect minor repairs.

Emergency Materials

In addition to those tools which the manufacturer provides, you should carry the following:

Tools: General Purpose Pliers—Adjustable Wrench (34" opening)—Flashlight.

Spare Parts: Spark Plug—Drive belt— Headlamp and Taillight bulbs—Throttle Cable and Housing—Starting and towing rope.

Important: Always carry spare plugs and drive belt. Check condition of spark plug frequently and look for signs of a fouled or defective plug.



STARTING PROCEDURE

Warning: Ensure the gear shift lever is in PARK position before starting engine. Never run the engine at high R.P.M. when the shift lever is in PARK or when the track of the vehicle is raised off the ground.

Note: Before starting the engine make sure the kill button is in the released upper position.

1. Insert key in ignition switch.

2. Engage choke. (Choke is not necessary if engine is warmed up).

3. Test throttle operation then apply throttle lever slightly.

4. Turn ignition key clockwise until starter engages.

Caution: Do not engage starter longer than 30 seconds. If engine does not start on first try, key must be turned fully back to OFF each time. Allow starter to cool for 2 minutes before repeating procedure.

5. Release throttle and key immediately engine has started. Disengage choke.

6. Allow the engine to warm up before operating at full throttle.

Caution: Never operate the Ski-Doo snowmobile with the battery removed or disconnected.

A manual starter is standard equipment on all Ski-Doo snowmobiles. If for some reason the vehicle cannot be started electrically proceed as follows;

1. Insert key in ignition and turn to ON position.

2. Engage choke. (Choke is not neces-

sary if engine is warmed up)

3. Test throttle operation then apply throttle lever slightly.

4. Grasp manual starter handle firmly and pull slowly until a resistance is felt then pull vigorously and engine will start. Allow handle to return **slowly** to its original position. If engine does not start, repeat the procedure.

Note: Do not pull starting rope to its fullest extent or allow starting handle to "fly back" to its original position.

5. Release throttle and disengage choke immediately engine has started.
6. Allow the engine to warm up before operating at full throttle.



Frequency of Lubrication

It is recommended that the steering mechanism and suspension be lubricated monthly or after every 40 hours of operation. However, if the vehicle is operated in wet snow, the suspension and steering system should be lubricated more frequently.

Caution: Drive and driven pulleys do not require lubrication. Lubricant will destroy bushing material.

Pulley Guard Removal

1. Tilt cab.

2. Pull out retaining clip and pull on spring bolt to disengage pin from bracket.

3. Push pulley guard forward to disengage from gear box bracket. Lift from vehicle.

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

Drive Belt Removal

1. Tilt cab and remove pulley guard.

2. Open the driven pulley, (larger pulley most forward). Twist and push the sliding half then **hold** in open position.

3. Pull the bottom of belt in toward the front of the driven pulley then slip slackened belt over the top edge of the sliding half.

4. Slip the belt out from the drive pulley (centrifugal governor), and remove completely from vehicle by passing it between muffler and end of driven pulley. To install drive belt, reverse procedure.

Warning: Never run the engine without drive belt installed. Running an unloaded engine can prove to be dangerous.



Steering Mechanism

Using light machine oil, lubricate the lower steering column bushing. Lubricate the ski legs at grease fittings until new grease appears at the joints.

Gear Box

Remove oil level inspection plug then using a length of rigid wire as a dipstick, check oil level. The gear box has an oil capacity of approx. 10 ozs. To replenish supply, remove filler cap then using a funnel, pour in required amount of Ski-Doo chain case oil.

Bogie Wheels

Lubricate the suspension bogie wheels with low-temp. grease, using a low pressure grease gun. Pump through the grease fitting at the centre of each wheel until new grease appears at the joint of inner side of shaft.

Rear Axle

Lubricate the rear axle with low-temp, grease. Pump grease through the rear axle fittings.

Caution: Always use a low-pressure grease gun.



Carbonized





Burnt

MAINTENANCE

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(W1) Spark Plug

The standard plug on your snowmobile has been selected as the one most suitable for high speed riding (see specifications). However, for trail riding, a spark plug with a **hotter** heat range must be installed.

Caution: Having a spark plug with too hot a heat range will cause serious engine damage if the severity of engine operating conditions are greater than the plugs intended range.

1. Unlock and remove upper access door. Disconnect spark plug wires and remove plugs.

2. Check condition of plugs.

 A brownish tip reflects ideal conditions (proper carburetor adjustment, spark plug heat range, etc.).

- A black insulator tip indicates fouling caused by: carburetor idle 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 idle speed mixture adjusted too lean, wrong spark plug heat range, incorrect fuel mixing ratio, or a leaking seal or gasket.

3. Check spark plug gap using a wire feeler gauge. Gap must be.020"

4. Reinstall plugs and connect wires.





(W2) Battery

Remove battery caps then check electrolyte level at each cell. Electrolyte level must touch bottom of filler hole. If necessary, add distilled water.

(W3) Suspension Springs

With engine **off**, visually inspect bogie wheel springs and link plate springs. Replace any weak or broken spring.

(W4) Track

Lift the rear of the vehicle and support it off the ground so that the track is free to turn. With engine **off**, rotate track by hand and visually inspect track condition. If bad cuts or missing inserts are noted, see your dealer.

Note: Without these inserts continual abrasion would wear and cut the track therefore, always replace a missing or damaged insert as soon as possible.

(W5) Track Tension

With rear of vehicle off the ground, check the track tension from the middle set of bogie wheels. The track tension (distance between top inside edge of track and bottom of footboard) should be 21¼ inch plus or minus ½ inch.

If track tension is too loose, the track will have a tendency to thump. If too tight, performance will be affected.

If necessary to adjust:

1. Using wrench, loosen both track adjusters by unscrewing the lock nuts situated on the inner side of the suspension springs.

2. Adjust to proper tension by turning adjuster bolts, clockwise to tighten track, counter-clockwise to slacken. Adjust both sides equally.

3. Proceed with track alignment.

Note: Track tension and alignment are inter-related. Do not adjust one without

checking the other.

(W6) Track Alignment

After track tension has been corrected, start the engine and accelerate slightly so that track turns **slowly**. Check that track is well centered and turns evenly on the rear sprockets. The distance between the edges of the track and the link plates should be the same on both sides. Misalignment can cause excessive wear of track edges and sprocket teeth.

To adjust:

1. Using wrench, turn track adjuster screw clockwise on the side where the track is closest to the link plate until track aligns.

2. Firmly retighten adjuster lock nuts.

3. Rotate track 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, feet and clothing clear of track.

(W7) Carburetor Adjustment

The carburetor adjustments for the Ski-Doo snowmobile are: Maximum Throttle Opening, Idle Speed Mixture and Idle Speed.

Note: A relationship exists between each adjustment. Do not correct one without checking the other.

Maximum Throttle Opening

With engine **off**, unscrew the Idle Speed Adjusting Screw until a gap exists between screw end and carburetor shaft lever. Depress the throttle lever at handlebar and hold. Butterfly should be horizontal when the lever gently touches the handlebar grip. To adjust for maximum opening, loosen screw at point where cable joins carburetor lever. Hold throttle lever to handlebar. With finger, hold carburetor lever in fully open position (UP), pull cable downward until taut. Retighten screw.

Warning: Before starting engine, carburetor throttle lever must return to idle position by contacting with the tip of Idle Speed Adjusting Screw. Never start engine unless this situation is verified.

Idle Mixture Adjustment (A)

A primary adjustment (with engine **off**), should be made by first turning Idle Mixture Screw fully clockwise until closed. Back off screw 7/8 of a turn counterclockwise. Turning screw clockwise produces a leaner mixture, (more air/less fuel), counter-clockwise, a richer mixture (less air/more fuel).

Note: Do not close too tightly as needle and/or needle seat can be damaged.

For final adjustment, start engine and allow it to warm up. Turn Idle Mixture Screw until engine reaches maximum R.P.M. and obtain a steady idle and a fast response of the engine to the throttle.

Idle Speed Adjustment (B)

Turn the Idle Speed Adjusting Screw clockwise to increase idling speed, counter-clockwise to decrease.

Caution: Never operate vehicle with air intake tube removed as serious engine damage may occur.



(W8) Drive Belt Condition

Remove drive belt. Check condition of belt. Inspect for cracks, fraying or abnormal wear. (Uneven wear, wear on one side, etc.). If abnormal wear is noted, probable cause is misalignment of drive and driven pulleys. Contact your dealer.

(W9) Drive Chain Tension.

Note: Chain tension should be checked after the first 2 hours of operation.

To check chain tension:

1. Start engine and drive vehicle forward for a short distance. **Stop engine** and tilt cab.

2. Remove inspection plug and check chain free-play. (The free-play should be ¼ inch).

If necessary to adjust:

- Remove capscrew locking chain tensioner in place. Chain tensioner is located on driven pulley side.
- Rotate tensioner to obtain correct free-play. Install capscrew.

(W10) Steering Mechanism

Inspect steering mechanism for tightness of components (steering arms, tie rods, etc.). Tighten if necessary.

(M1) Battery Connections

Check that battery and solenoid connections are tight and free of corrosion. If not, remove corrosion using a stiff brush then clean with a solution of baking soda and water. Rinse and dry well. After reconnecting, coat battery terminals and connectors with petroleum jelly to retard corrosion. Check that battery is well secured. **Caution:** Do not allow cleaning solution to enter battery. It will destroy the chemical properties of the electrolyte.

(M2) Carburetor Flange Nuts

After the first 2 hours of operation, check tightness of carburetor flange nuts. Open tab lock, tighten nuts and close tab lock.

Caution: The tab locks should be changed after being opened three times.

(M3) Drive Belt Wear

Tilt cab and remove pulley guard. Inspect drive belt for wear. If belt is less than $\frac{7}{2}$ wide it should be replaced.



(M4) Brake

Your vehicle is equipped with a selfadjusting brake mechanism therefore, eliminating periodic maintenance. However, since the brake is on essential safety device, we recommend that it be inspected regularly and kept in good working condition at all time. Brake should be applied fully when lever is 1" min. from handlebar grip.

Periodically,check brake pad wear. If pads are less than 3/16" thick they must be replaced.

(M5) Steering Adjustment

Skis should have a toe out of 1/8". To check, measure distance between skis at front and rear of leaf springs. If necessary to adjust:

1. Using a wrench, loosen the lock nuts of the **longer** tie rod.

2. Turn tie rod manually until skis are properly aligned.

3. Firmly retighten lock nuts.

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

1. Using a wrench, loosen the lock nuts of the **shorter** tie rod.

2. Turn tie rod manually until handlebar is horizontal.

3. Retighten lock nuts firmly.

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

(M6) Engine Head Nuts

After the first 5 hours of operation, check that engine head nuts are tight and equally torqued (16 to 18 ft/lbs when cold). Repeat monthly.

(M7) Engine Mount Nuts

With cab tilted, remove pulley guard then check engine mount nuts. Retighten if necessary.

(M8) Vehicle General Inspection

Check electrical wiring, retighten loose connections. Inspect for and tighten loose bolts, nuts and linkage.



EMERGENCY GUIDE

Burnt Light Bulb

If headlamp is burnt, stop engine, unlock cab latches (2) and tilt cab. 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.

Note: Immediately replace a burnt light bulb. This will prevent the other bulbs from burning out.

Broken Throttle Cable

Remove throttle cable and replace. Check lever operation. If necessary replace housing. **Do not** start the engine until lever returns swiftly.

Broken Rewind Starter Rope

Abuse of the rewind starter may cause the rope to fray and break. Should this situation arise, remove starter unit using 10 mm wrench supplied in tool kit. Transfer rope grip to your emergency rope. Place starter unit in rear compartment. Make a knot at the end of emergency starter rope and wind rope around starter pulley. Pull vigorously as per usual manual start. See your dealer for immediate repair or replacement of starter unit.

Assisting Stranded Vehicles

More than common courtesy dictates that you go to the aid of any snowmobile stranded in the field. Should another vehicle suffer a major breakdown and have to be towed, use one of the following procedures. On hard pack snow:

Remove the drive belt. Tie the front bumper to your rear bumper. Tow the vehicle and driver back slowly.

In deep snow:

Remove the drive belt. Tie both skis to your rear bumper. Taking the driver with you as a passenger, tow the vehicle back slowly.

Important:

Special attention should be given to the drive components of your vehicle when hauling another of greater weight. Hauling greater weights than your own can cause component damage.

TROUBLE SHOOTING GUIDE

Symptoms	Possible Causes	What To Do				
Engine turns over but fails to	1. No fuel to the engine	Check the tank level and fill up with correct gas-oil mixture. Check for possibl clogging of fuel line, item 5.				
start or starts with difficulty	2. Spark plug	Check for fouled or defective spark plug. Disconnect spark plug wire, unscrew plug and remove from cylinder head. Reconnect wire and ground exposed plug on engine head, being careful to hold away from spark plug hole. Follow engine starting procedure and check for spark. If no sparks appear, replace spark plug. If trouble persists, check item 3.				
	3. Faulty ignition	Disconnect spark plug wire from plug, unscrew the spark plug cap then hold wire about 1/611 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	Disengage choke, wait 60 seconds or more then depress throttle lever fully and try to start engine. Release throttle lever immediately after engine starts .				
	5. Clogged fuel line ' (water or dirt)	Remove and clean the fuel filter. Change filter cartridge if necessary. Check condi- tion and connections of fuel lines. Check the cleanliness of the fuel tank. Clean tank if necessary. (See Fuel Tank, Storage Section).				
	6. Faulty Carburetor	First make primary adjustments on carburetor (See Maintenance Section). If car- buretor 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. Breaker points	Breaker points may be worn or out of adjustment. Contact your dealer.				
	9. Poor engine compression	Running with a lean fuel mixture may produce excessive engine wear resulting in poor engine compression. If this occurs, contact your dealer at once.				
Engine will not turn manually	1. Seized engine	In the case of a seized engine, contact your dealer. Seizure is a direct result of poor lubrication.				

TROUBLE SHOOTING GUIDE

Symptoms	Possible Causes	What To Do			
Engine will not start.	1. Battery	Check condition at battery by turning lights ON. If lights are dim or out, battery may be discharged or defective. Contact your dealer. If battery is good, check item 2.			
Note: If failure is in starting system, engine	2. Poor connections	C heck for loose or corroded battery or starter connections. Tighten and clean if neces- sary. Try to restart engine electrically.			
will start manually.	3. Starter	If connections are tight and battery is in working order probable cause of trouble is defective starter. Contact your dealer for repair,			
Engine lacks acceleration or	1. Fouled or defective spark plug	Check item 2 of "Engine turns over but fails to start or starts with difficulty".			
power	2. Clogged fuel line (water or dirt)	Check fuel line condition. (See item 5 of "Engine turns over but fails to start or starts with difficulty").			
	3. Carburetor	Readjust the carburetor. (See Maintenance Section). If trouble persists, contact your dealer,			
	4. Defective ignition	First check item 2 and 3 "Engine turns over but fails to start or starts with difficulty". If the ignition system still seems defective, contact your dealer.			
	5. Engine	If unable to locate specific symptoms, contact your dealer.			
Engine	1. Faulty spark plug	Check item 2 of "Engine turns over but fails to start or starts with difficulty".			
continually backfires	2. Overheating	Contact your dealer.			
Dackines	3. Engine timing incorrectly set.	Contact your dealer.			
Vehicle	1. Drive beit	Check for defective or worn drive belt. Replace if necessary.			
cannot reach fuil spead	2. Incorrect track adjustment	Check tension and alignment of tracks. Readjust to specifications. (See Maintenance Section).			
	3. Faulty engine	Check items 1 to 5 of "Engine lacks acceleration or power".			
	4. Pulley misaligned	Contact your dealer.			

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OFF-SEASON 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 Ski-Doo snowmobile during long periods of inactivity consists of checking and replacing missing or worn parts: Proper lubrication and treatments to insure that parts do not become rusted; Cleaning items such as carburetor of oil gas mixtures, to prevent gum varnish formation within the carburetor; Battery recharging (electric models); 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.

Important: The necessity of proper storage cannot be overstressed. If you lack the time or proper tools, see your authorized Ski-Doo Dealer.

(S1) Track

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

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

Note: The track should be rotated periodically, (every 40 days).

(S2) Suspension

1. Remove the bogie wheel sets.

2. Remove cross shaft from bogie wheel set. Clean bogie wheel assembly and cross shaft of dirt or rust.

3. Grease each bogie wheel until all old grease is flushed out.

4. 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.

5. Reassemble entire bogie wheel set, making sure assembly moves freely.

6. Reinstall bogie wheel sets.

7. Lubricate rear hub through grease fittings.

(S3) Ski Assembly

1. Wash or brush all dirt or rust accumulation from skis and springs.

2. Grease ski legs at grease fittings.

3. Check condition of ski runners. Replace if worn.

4. Apply metal protector on ski assembly. If unavailable, wipe the entire ski with cloth soaked in oil to prevent rust formation



(S4) Fuel Tank

1. Disconnect fuel lines at fuel tank.

2. Disconnect electrical wiring from fuel gauge sender unit.

3. Remove tank retainer strap bolts. Pull tank from vehicle and drain it.

4. Rinse inside of tank thoroughly with fresh gasoline.

5. Reinstall fuel tank.

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

(S5) Carburetor

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

1. Assure that inlet fuel line is disconnected then start the engine and run it out of gas.

2. Pull out air silencer tube from carburetor, 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.

(S6) Cylinder Lubrication

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

1. Remove spark plug.

2. Operate rewind starter to bring piston at top position.

3. Pour about one spoonful of Ski-Doo oil into spark plug hole.

4. Slowly crank engine 10 to 12 times using manual starter.

Caution: To prevent magneto damage, make sure that the ignition switch is at the OFF position.

5. Repeat above steps for other cylinder. Install spark plugs. **Note:** This operation should be repeated every 40 days during storage.

(S7) Gearbox

Remove drain plug and drain content. Refill with 10 ozs. of fresh Ski-Doo chaincase oil.

(S8) Driven Pulley

1. Tilt cab, remove pulley guard and drive belt.

2. Thoroughly clean the driven pulley shaft with fine steel wool and a clean cloth.

3. Spray internal pulley surfaces with metal protector.

Note: Leave drive belt off during entire storage period.





(S9) Drive Pulley

1. With cab tilted, remove pulley guard and drive belt.

2. Remove centrifugal governor as follows:

- Remove both spark plugs and position P.T.O. (drive pulley side) piston 34" to 114" before top dead center, making sure that the piston closes the exhaust port.
- Accede by the spark plug hole and pack the same P.T.O. cylinder with ³/₈" dia, rope.
- Pull manual starter to rotate crankshaft until piston bears against "cushioning"
- Unscrew centrifugal bolt, remove centrifugal governor, outer pulley half and spring. Pull rope from spark plug hole.

3. Thoroughly clean the inner pulley shaft using fine steel wool and clean cloth. Inspect all components for excessive wear.

4. Spray internal pulley surfaces with metal protector.

5. Using light machine oil, lubricate the governor bolt threads. Install governor and torque bolt to 33-40 ft/lbs.

Note: Installation procedure is reversed insuring that the rope is inserted into the same cylinder when piston is 3/4" approx. **after** top dead center.

Warning: Make sure that the governor bolt is fully tightened before removing rope from cylinder.

(S10) Battery

1. Disconnect battery and remove from vehicle.

2. Clean outside surface of battery with solution of baking soda and water. Remove all deposits from connection posts and rinse with clear tap water.

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

Check electrolyte level in each cell.
 Refill if necessary using distilled water.
 Fully charge battery.

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.

5. Coat battery terminals with petroleum jelly.

6. Store the battery in a cool, dry place.



Note: A stored battery will gradually lose its charge and begin to sulphate. If allowed to continue, the battery will become useless and cannot be salvaged. Fully recharge (trickle charge), at least every 40 days. Lack of preventive maintenance could void warranty on this item.

(S11) Controls

1: Oil steering mechanism. Inspect components for tightness, (tie rods, spherical ball joints, etc.). Tighten if necessary.

2. Oil moving joints of brake mechanism. Avoid getting oil on brake lining.

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

(S12) Chassis

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

2. Inspect cab and repair damage. Repair kits are available at your authorized Ski-Doo dealer.

3. Wax the complete cab for better protection.

4. Touch up all worn metal spots where paint has been scratched off. Ask your dealer about Ski-Doo paints.

5. Spray all bare metal parts of vehicle with metal protector.

6. Protect the vehicle with a Ski-Doo cover to prevent dust accumulation during storage.

Caution: Plastic components such as cab, console, throttie and brake levers can be seriously damaged by applying strong soap, degreasing solvent, abrasive cleaner, paint thinner, etc.



PRE-SEASON PREPARATION

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

To simplify the pre-season preparation we have drawn up a small check list.

Many items have been forementioned in the Lubrication or Maintenance sections of this manual therefore quick and easy reference is possible.

Again we mention, should you lack the time or tools to complete the task, to contact the Ski-Doo dealer of your choice and obtain his professional assistance.

- Spark plug.Change
- Gear box; Check oil level
- Pulleys; Clean, lubricate and align drive and driven pulleys.

- Skis; Aligned.
- Fuel Filter; Change.
- Fuel lines; Connect then check attaching points at tank and carburetor.
- Track; Check tension and alignment.
- Suspension; Lubricate, wipe off excess grease.
- Drive belt; Inspect and install.
- Cables, Check for damage.
- Brake; Inspect lining, adjust.
- Oil seals; Inspect for possible cuts or leaks.
- Battery: Test, clean and install.
- Engine Timing: Replace breaker points. Set timing.
- Wiring: Check electrical wiring for broken or damaged insulation. Inspect connections.
- Manual Starter. Inspect condition of starting rope.
- Fasteners: Check tightness of all nuts, bolts and linkage. Pay particular at-

tention to engine head nuts-16-18 ft/lbs torque. Governor bolt 33-40 ft/lbs torque.

- Gas Tank: Refill.
- · Carburetor: Adjust

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.





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SPECIFICATIONS

ITEM	Nordic	640ER
Engine	No. of Cylinders	Two
	Bore	76mm
	Siroka	7()mm
	Displacement	635,1 cc
	Compression Hatio	9:1
	Conturctor (Tilliotson)	HD
	Starting and search and	Electric
Chassis	Overall length	101''
	Overall width	34 1/2"
	Height	46"
	Height w/o Windshield	36 1/2"
	Weight (Ibs)	495
	Bearing Area	1242 sq.in.
	Ground Pressure (p.s.i.)	.398
Power train	Teack Within	19"
	Std. Gear Platio	19/33
Electrical	Eighting Coll Output	120 watt
System	Headlamp (Wath)	60/60
	Tail/Stop Light	8/23
	Spark Phile (Bosch)	M-225-T1
	Spark Plug Gap	.020''
Fuel	Tank Capacity - Josp	5,1
	Tank Capacity U.S.	6.37
	Gasoline	Regular
	Gas/Oil Ratio	50/1
Brake	Type	Disc

1974 SKI-DOO * WARRANTY

Bombardier Limited (Bombardier) as manufacturer, warrants every 1974 Ski-Doo^{*} snowmobile, (except T'NT F/A)^{*}, Ski-Boose^{*} or Carry-Boose^{*} tow sled, SOLD AS A NEW VEHICLE BY AN AUTHORIZED SKI-DOO DEALER, to be free from defects in material, and workmanship under normal use and service, for a period of 12 consecutive months from first date of sale. If defective, repair and/or replacement is valid only at an authorized dealer in Canada or in the United States.

CONDITIONS

- Proof of ownership submitted to the servicing dealer, by means of the Ski-Doo service card.
- Proper maintenance; to be performed at owner's expense.

Guidelines for proper use and maintenance are detailed in each owner's manual.

EXCLUSIONS: Non-warrantable

 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, fasteners, labels, soft trim, appearance items, lubricants and paints and all tune ups and ajustments required.

 Repairs resulting from installation of parts other than genuine Bombardier parts.

- Blizzard models and any vehicle used for racing purpose.
- Any losses incurred to the vehicle owner other than parts and labour.

This warranty is expressly in lieu of all other expressed or implied warranties of Bombardier, its distributors and the selling dealer, including any implied warranty of merchantability of fitness for any particular purpose. Neither Bombardier, its distributors not the selling dealer shall be responsible, under any circumstances, for any loss or damage as a result of hidden defects, accidents, misuses or other faults.

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.

January 1973 BOMBARDIER LIMITED Valcourt, Québec, Canada.

Important: Off-season storage and pre-season preparation are at the discretion and expense of the owner. However, any failure which occurs as a result of inadequate seasonal preparation shall not be covered under warranty.

1974	-to- and Complete step by step procedures ted. for vehicle repair. Illustrated. Cov- to ers 1974 vehicles. Also included 972 adjustment data on vehicles built '63 through '74.	ign	Reserve your copy now! Send certified cheque or money order to: Canada Bombardier Limited,	Railroad Street, Lee, Massachusetts, 01238		(BLOCK LETTERS)	STATE / PROV ZIP CODE	1972 SHOP MANUAL \$7.95	1973 SUPPLEMENT \$5.00	1974 SHOP MANUAL \$8.95
1972	Over two hundred pages of up-to- date information on Repairs and Servicing Completely illustrated. Everything you'll ever need to know about servicing your 1972 Ski-Doo snowmobile. 1973	Supplement edition of the '72 Shop Manual. Includes the latest design changes and servicing techniques for '73 vehicles.	Reserve your copy now! Send Canada Bombardier Limited,	Technical Information Centre, Valcourt,Québec Canada	To be completed and returned with a money order or a certified cheque (Postage included)	NAME STREET	CITY STATI	SEND ME		

SKI-DOO * SHOP MANUALS

*Trademark Bombardier Limited

NOTE: In the event of change of ownership, complete the notice of transfer form below in order to qualify the new owner for balance of warranty. All such transfers should be reported to an authorized Ski-Doo dealer for modification of the Ski-Doo Service Card. In the event of a lost Service Card, contact the original selling dealer for completion of the ''Request for New Service Card'' form. For a \$2.00 handling charge, Bombardier will mail your new personalized Service Card to you.

Bombardier Limited, Valcourt, Québec, Canada.

	OTICE OF TRANSFER Vehicle Serial No.
Sig	nature of registered owner
То	
Full name of purchaser	Block letters
Address	
No	Street or Village
	City County Date



Backrest

M

- Easily installed on Ski-Doo* snowmobiles.
- Can be attached at two locations—center for driver only rear for passenger.
- Attractive sturdy leatherette and metal construction also available chrome coated.
- Highly recommendable for all snowmobiles carrying more than one passenger.



Tachometer

The tachometer registers the impulses of the magneto. Direct-reading dial indicates (in thousands) the number of revolutions per minüte (R.P.M.) of the engine. Vital towards maximum performance and engine diagnosis.



Speedometer

Linked directly to the drive axle. Direct-reading dial indicates the speed of the vehicle in miles per hour (M.P.H.). 6 digit Odometer records the number of miles travelled.



Temperature Gauge

Developed for observing changes in cylinder head temperatures. Features; high sensitivity . . . quick response . . . special heat compensating bi-metal . . . internal illumination and quick connect pick-up unit. Applicable to all models.



Snow Guard

- Prevents snow from blinding trailing snowmobilers.
- Strong thick rubber ensures long lasting durability.
- · Perfectly flexible even under extreme cold
- A must for all racing snowmobiles and an added precaution for snowmobilers on safari.
- Applicable to all models.

All genuine Ski-Doo parts and accessories are specifically designed to provide you with peak performance. Whether it's for comfort or safety, you know that you can depend on genuine Ski-Doo parts and accessories available only at Ski-Doo dealers across the country.

... and the Bombardier corporation is behind them all.

*Trademark Bombardier Limited

Suggested Retail Price \$1.00

(First copy free with unit purchased)

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