

# SEA-DOO®

## Sport Boats



THIS SUPPLEMENT MUST BE USED  
IN CONJUNCTION WITH  
OPERATOR'S GUIDE (P/N 219 000 109)

# OPERATOR'S GUIDE SUPPLEMENT

# 2000

219 000 114

SPORTSTER LE

## **SAFETY WARNING**

Disregarding any of the safety precautions and instructions contained in this *Operator's Guide*, the *Safety Handbook* and on *Product Warning Labels* could cause injury, including the possibility of death. The operator has the responsibility to inform passenger(s) of safety precautions.

This *Operator's Guide*, the *Safety Handbook* and *Videocassette* should remain with the craft at the time of resale.

**BOMBARDIER**  
*RECREATIONAL PRODUCTS*



**The following trademarks are property of Bombardier Inc. and/or its subsidiaries:**

SEA-DOO®

BOMBARDIER-ROTAX®

Bombardier Lube®

BOMBARDIER-ROTAX Formula XP-S Synthetic Injection Oil

BOMBARDIER-ROTAX Injection Oil

Sea-Doo Synthetic Grease

Gelcote<sup>†</sup> is a trademark of Gelcote International

Knight's Spray-Nine<sup>†</sup> is a trademark of Korkay System Ltd

## **INTRODUCTION**

This supplement contains information specifically applicable to the Sportster\* LE and should always be used in conjunction with *2000 Challenger\*/Sportster Operator's Guide* (P/N 219 000 109).

---

# TABLE OF CONTENTS

<b>FOREWORD</b> .....	<b>3</b>
<b>⚠ SAFETY WARNING</b> .....	<b>4</b>
General .....	4
Operation .....	4
Maintenance .....	6
<b>LIST OF DISTRIBUTORS</b> .....	<b>8</b>
<b>BOMBARDIER LIMITED WARRANTY NORTH AMERICA: 2000 SEA-DOO® SPORT BOAT</b> .....	<b>9</b>
<b>BOMBARDIER INTERNATIONAL LIMITED WARRANTY: 2000 SEA-DOO® SPORT BOAT</b> .....	<b>11</b>
<b>LOCATION OF THE IMPORTANT LABELS</b> .....	<b>13</b>
<b>IDENTIFICATION NUMBERS</b> .....	<b>15</b>
<b>FUEL AND LUBRICATION</b> .....	<b>15</b>
Recommended Oil.....	15
<b>BREAK-IN PERIOD</b> .....	<b>16</b>
Engine.....	16
10-Hour Inspection .....	16
<b>POST-OPERATION CARE</b> .....	<b>17</b>
<b>SPECIAL PROCEDURE</b> .....	<b>19</b>
Towing the Craft in Water .....	19
<b>STORAGE AND PRE-SEASON PREPARATION</b> .....	<b>20</b>
Propulsion System.....	20
Antifreezing Protection .....	20
Pre-Season Preparation .....	20
<b>PERIODIC INSPECTION CHART</b> .....	<b>21</b>
<b>SPECIFICATIONS</b> .....	<b>23</b>
<b>DECLARATION CE OF CONFORMITY</b> .....	<b>25</b>
Homologation and Certification .....	26
Operator's Guide Confirmation of Receipt .....	27

---

# FOREWORD

The *Operator's Guide* and *Safety Handbook* have been prepared to acquaint the owner/operator or passenger with this personal craft and its various controls, maintenance and safe riding instructions. Each is indispensable for the proper use of the product, and should be kept in a waterproof bag with the craft at all times.

For any questions pertaining to the warranty and its application, consult the WARRANTY section in this document, and/or an authorized SEA-DOO dealer.

This guide uses the following symbols to emphasize particular information.

**WARNING**

Identifies an instruction which, if not followed, may cause serious personal injuries including the possibility of death.

**CAUTION:** Denotes an instruction which, if not followed, may damage the craft and/or components.

**NOTE:** Indicates supplementary information needed to fully complete an instruction.

Although the mere reading of such information does not eliminate the hazard, the understanding and application of the information will promote its correct use.

The information and components/system descriptions contained in this guide are correct at the time of publication. Bombardier Motor Corporation of America (B.M.C.A.) however, maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured.

Because of our ongoing commitment to product quality and innovation, Bombardier reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring obligation.

The illustrations in this document show the typical construction of the different assemblies and may not represent the full detail or exact shape of the parts. However, they represent parts that have the same or similar function.

It is understood that this guide may be translated into another language. In the event of any discrepancy, the English version shall prevail.

Specifications are given in the SI metric system with the SAE U.S. equivalent in parenthesis. Where precise accuracy is not required, some conversions are rounded off for easier use.

A Sea-Doo Sport Boat *Shop Manual* can be obtained for complete service, maintenance and more repair information.

---

## **⚠ SAFETY WARNING**

### **General**

- ⚠ To fully appreciate the pleasures, enjoyment and excitement of boating there are some basic rules that should be observed and followed by any boater. Some rules may be new to you or covered in the PWC/Sport boat *Safety Handbook* and *Safety Video*, others may be common sense or obvious... irrespective, we ask that you please take a few minutes of your time to completely read these safety instructions before you operate your craft. **Failure to follow this safety information and safe boating rules could result in injury, including the possibility of death to you, your passenger(s), or other water users.**
- ⚠ Information in this guide is limited. It is strongly recommended that you obtain further boating information from the local Coast Guard or Power Squadron. We also recommend all operators to take a boating safety course. Please check local and federal boating laws applicable to the waterways where you intend to use the craft. Learn the local rules of the road.
- ⚠ The performance of this craft may significantly exceed that of other boats you have operated. Therefore, use of this craft by a novice or inexperienced operator, or an under-age or disabled person, is not recommended.
- ⚠ Observe and follow all on-product warning labels.

- ⚠ Become completely familiar with the controls and operation of the craft before embarking on your first trip or taking on a passenger(s). If you have not had the opportunity to do so with your dealer, practice driving solo in a suitable area and feel the response of each control. Be fully familiar with all controls before applying the throttle above idle speed. As the operator, you are in control and are responsible for the craft's safe operation.
- ⚠ Always carry the regulatory required safety items on board. Check with local regulations or your dealer.
- ⚠ Make sure that all users of the craft read and are aware of all warnings.

### **Operation**

- ⚠ The operator and passenger(s) should wear a Coast Guard approved PFD, suitable eye and body protection as well as deck shoes or booties.
- ⚠ Store or tie-down any loose articles or necessary boating equipment before operating the craft.
- ⚠ Always perform the pre-operation checks as specified in this guide.
- ⚠ Always keep in mind that directional control is reduced with decreasing speed and lost when engine is off. To turn the craft, both steering and throttle are necessary. This craft has the capability of turning more sharply than other boats, however, unless in an emergency, do not negotiate sharp, high speed turns. You and your passenger(s) could be thrown from the craft. It should also be remembered that sun, wind, alcohol or drugs, may impair your judgment and reaction time.

- ⚠ While your craft has the capacity of operating at high speeds, it is strongly recommended that high speed operation only be applied when ideal conditions exist and are permitted. Higher speed operation requires a higher degree of skill and increases the risk of severe injuries.
- ⚠ The forces generated on the body of riders while turning, negotiating waves or wakes, operating in choppy waters, or falling off the watercraft, especially at higher speeds, may cause injury including the possibility of broken legs and other bones. Remain flexible and avoid sharp turns.
- ⚠ Ensure operator all-round visibility is unrestricted. Always keep a constant lookout for other water users or other potential hazards especially when turning. Make sure to keep a safe distance from all other craft, other water users and other objects.
- ⚠ Like any other boats, this craft has no brake. Stopping distance will vary depending on initial speed, load, wind, and water conditions. Practice stopping and docking in a safe, traffic free area to have an idea of how long it will take to stop the craft under varying conditions. Do not release throttle when trying to steer away from objects. You need throttle to steer. Do not use the craft's reverse, if so equipped, to stop.
- ⚠ Ensure that all passengers know how to swim and how to reboard the craft from the water. The operator and passenger(s) should be properly seated and wearing an approved PFD before starting or moving the craft and at all times when craft is in motion. Do not start or operate the craft if a person(s) is seated on the sun deck or swim platform, or are nearby in the water. The craft's jet thrust can cause injury. Always accelerate slowly. To prevent accidental starting or unauthorized use, always detach the safety lanyard from the craft especially when swimmers are boarding or nearby, or during removal of any weeds or debris from the intake grate.
- ⚠ Riding with a passenger(s) or pulling other boats, tubes, skier or wakeboarder makes the craft handle differently and requires greater skill. Do not overload the craft or take on more passengers than designated for the particular craft. Overloading can affect maneuverability, stability and performance. Avoid adding on accessories, or equipment which may alter your control of the craft. The craft may be fitted with tow eyelets which can be used to attach a ski rope. However, do not use these eyelets or the craft's cleats to tow a parasail. Severe craft damage may occur.
- ⚠ Always respect the safety and comfort of your passenger(s) and person being towed on skis, wakeboards or other water products. Always have an observer while towing a skier, proceed with only as much speed as required, and follow the observers instructions. Unless absolutely necessary, do not make tight, sharp turns.

- ⚠ Know the waters in which the craft is to be operated. Current, tides, rapids, hidden obstacles, wakes and waves etc., can affect safe operation. It is not advisable to operate the craft in rough or inclement weather.
- ⚠ Wake or wave jumping or riding the surf line can cause severe personal injury and damage the craft. Never attempt to splash others with your craft. You may misjudge the ability of the craft or your own riding skills and strike a boat or person.
- ⚠ In shallow water, proceed with caution and at very low speeds. Grounding or abrupt stops may result in injury. Debris may also be picked up and be thrown rearward by the jet pump onto people or property.
- ⚠ Respect no wake zones, the rights of other water users and the environment. As the "skipper" and owner of a boat you are responsible for damage to other boats caused by the wake of your craft. Allow no one to throw refuse overboard.
- ⚠ This craft is equipped with navigation lights which should be used between sunset and sunrise. Reduce speed and do not operate the craft in reduced visibility. Avoid adding on accessories or equipment which may alter the craft's configuration or balance.
- ⚠ Remember, gasoline fumes are inflammable and explosive. Always adhere to the fueling procedure contained in this guide and those given to you by the marina. Always verify fuel level before use and during the ride. Apply the principle of 1/3 fuel to destination, 1/3 back and 1/3 reserve fuel supply. Do not carry spare fuel or inflammable liquids in any of the storage or engine compartments.
- ⚠ Combustion engine needs air to operate; consequently this craft can not be totally watertight. Any maneuvers such as figure eights etc., that cause the upper deck to be under water may cause severe engine problems due to water ingestion. Refer to "Special Procedures" and Limited Warranty contained in this guide.
- ⚠ Due to the close proximity of other racers, It is recommended that an approved personal watercraft helmet be used during racing events only. Read and follow all instructions and warnings provided with the helmet.

## Maintenance

- ⚠ Only perform servicing procedures which are detailed in this guide. Further assistance or information can be obtained from your authorized Sea-Doo dealer. In many instances proper tools and training is required for certain servicing or repair procedures.
- ⚠ Maintain the craft and equipment in top condition at all times. Adhere to the prescribed maintenance schedules. An annual inspection of the craft is always a good recommendation that should be followed.
- ⚠ The bilge must be kept clean of oil, water or other foreign materials.
- ⚠ Do not attempt to lift the craft without special equipment and training.





- ⚠ The engine and the corresponding components identified in this guide should not be utilized on product(s) other than for those they were designed. Maintenance procedures and specified tightening torque must be strictly adhered to. Never attempt repairs unless the appropriate tools are available. These craft are designed with parts dimensioned in both the metric and the imperial systems. When replacing fasteners, make sure to use only those recommended by Bombardier. If required, contact your authorized Sea-Doo dealer for further servicing information.
- ⚠ Operate your craft prudently and have fun. Don't forget that all persons must assist other boaters in case of emergency.

---

# LIST OF DISTRIBUTORS

## NORTH AMERICA

<p><b>U.S.A.</b></p>  <p>(Except Puerto Rico)</p>	<p><b>BOMBARDIER MOTOR CORPORATION OF AMERICA</b> 5000 STEWART WAUSAU, WI 54401 Phone: (715) 842-8886 <a href="http://www.bombardier.com">http://www.bombardier.com</a></p>
<p><b>CANADA</b></p>  <p>Alberta British Columbia Manitoba North West Territories Ontario Quebec Saskatchewan Yukon New-Brunswick Nova Scotia Prince Edward Island Nunavut</p>	<p><b>BOMBARDIER INC.</b> RECREATIONAL PRODUCT 75, J.A. BOMBARDIER ST. SHERBROOKE, QC J1L 1W3 Phone: (450) 532-5000 <a href="http://www.bombardier.com">http://www.bombardier.com</a></p>
<p>Newfoundland</p>	<p><b>CHARLES R. BELL</b> P.O. BOX 1050 RIVERSIDE DRIVE CORNER BROOKE, NFLD A2H 6J3 Phone: (709) 634-3533</p>

If your SEA-DOO Sport Boat requires warranty service, you should take it to any authorized SEA-DOO Sport Boat dealer. Be sure to bring your warranty registration card or other valid proof of the original date of purchase. If a question or problem arises regarding warranty, first contact the service manager or owner of the SEA-DOO Sport Boat dealership.

To find the nearest authorized Sea-Doo Sport Boat dealer, dial: 1-800-882-2900.

**NOTE:** If outside Canada and U.S.A., consult the local authorized Sea-Doo distributor.

---

# **BOMBARDIER LIMITED WARRANTY NORTH AMERICA: 2000 SEA-DOO® SPORT BOAT**

## **1. WARRANTY COVERAGE PERIOD**

In Canada, BOMBARDIER INC. ("Bombardier"), and in the U.S.A., Bombardier on behalf of BOMBARDIER MOTOR CORPORATION OF AMERICA (BMCA), warrants FROM THE DATE OF DELIVERY TO THE FIRST CONSUMER that each 2000 SEA-DOO SPORT BOAT sold, as NEW and UNUSED and PREDELIVERED by an authorized North American SEA-DOO SPORT BOAT dealer, will be free from any defects in material and/or workmanship for a PERIOD of:

a) For private use:

TWELVE (12) CONSECUTIVE MONTHS, with the exception of the deck and hull fiberglass structure; and

SIXTY (60) CONSECUTIVE MONTHS for the deck and hull fiberglass structure.

b) For commercial use:

FOUR (4) CONSECUTIVE MONTHS, with the exception of the deck and hull fiberglass structure; and

TWELVE (12) CONSECUTIVE MONTHS for the deck and hull fiberglass structure.

All genuine Bombardier accessories, installed by an authorized SEA-DOO SPORT BOAT dealer at the time of delivery of the new and non-current new SEA-DOO SPORT BOAT, carry the same Warranty Coverage Period as for the SEA-DOO SPORT BOAT.

## **2. WHAT BOMBARDIER WILL DO**

BOMBARDIER will repair or replace, at its option, all genuine BOMBARDIER part found defective in material and/or workmanship, under normal use, maintenance and service, with a genuine BOMBARDIER part without charge for parts and labor, at any authorized SEA-DOO SPORT BOAT dealer during the Warranty Coverage Period.

## **3. CONDITION TO HAVE WARRANTY WORK VALIDATED**

The customer must notify an authorized SEA-DOO SPORT BOAT dealer within two (2) days of the appearance of the defect in material and/or workmanship and present to the servicing authorized SEA-DOO SPORT BOAT dealer the SEA-DOO Warranty Registration Card or a proof of purchase of the NEW and UNUSED 2000 SEA-DOO SPORT BOAT and must sign the repair/work order prior to the start of the repair in order to validate a warranty repair. All parts replaced under this limited warranty become the property of BOMBARDIER.

## **4. EXCLUSIONS - ARE NOT WARRANTED**

- Normal wear and tear items;
- Labor, parts and lubricant costs of all maintenance services.
- Damages caused by failure to provide proper maintenance and/or storage, as described in the "2000 SEA-DOO SPORT BOAT Operator's Guide";
- Damages resulting from improper repairs, modifications or use of non-approved parts or, repairs not performed by a authorized SEA-DOO SPORT BOAT dealer;
- Damages resulting from abuse, misuse, neglect, racing;
- Damages resulting from accident, fire, theft, vandalism or any act of God;
- Incidental or consequential damages, or damages of any kind such as but not limited to towing charges, telephone calls or taxi;
- Water damages caused by water ingestion;
- Damages related to gel coat finish including but not limited to cosmetic gel coat finish, blisters or fiberglass delamination caused by blisters, crazing, spider or hairline cracks; and
- Damages resulting from improper service or maintenance.

## 5. LIMITATIONS OF LIABILITY

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 GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.**

Neither the distributor, any authorized SEA-DOO SPORT BOAT 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.

In no event shall BOMBARDIER be liable for special, consequential or incidental damages, including but not limited to loss of use and transportation costs. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply.

BOMBARDIER reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the SEA-DOO SPORT BOAT sold while this warranty is in effect.

## 6. TRANSFER

If the customer sells the SEA-DOO SPORT BOAT guaranteed under the present, he shall assign and transfer this warranty, which shall be valid for the rest of the relevant PERIOD as defined in section 1 hereinabove, to the new customer.

## 7. CONSUMER ASSISTANCE

- a) In the event of a controversy or a dispute arising in connection with this BOMBARDIER LIMITED WARRANTY, BOMBARDIER suggests that you try to resolve the issue at the dealership level. We recommend discussing the issue with the authorized dealer's service manager or owner.
- b) If further assistance is required, Bombardier's service department should be contacted in order to resolve the matter in Canada and the U.S.A.
- c) If the issue has still not been resolved, please submit in writing your complaint to:

In Canada and U.S.A.:



**BOMBARDIER INC.**  
**RECREATIONAL PRODUCTS**  
CUSTOMER ASSISTANCE CENTER  
75, J.-A. BOMBARDIER STREET  
SHERBROOKE, QC  
J1L 1W3  
TEL.: (450) 532-5000



**BOMBARDIER**  
*RECREATIONAL PRODUCTS*

SEPTEMBER 1999

® Trademark of Bombardier Inc. and/or its subsidiaries.

---

# **BOMBARDIER INTERNATIONAL LIMITED WARRANTY: 2000 SEA-DOO® SPORT BOAT**

## **1. WARRANTY COVERAGE PERIOD**

BOMBARDIER INC. ("Bombardier"), as manufacturer, warrants FROM THE DATE OF DELIVERY TO THE FIRST CONSUMER that each 2000 SEA-DOO SPORT BOAT sold anywhere in the world except the United States and Canada, as NEW and UNUSED and PREDELIVERED by an authorized SEA-DOO SPORT BOAT dealer, duly appointed by an authorized SEA-DOO International Distributor, will be free from any defects in material and/or workmanship for a PERIOD of:

a) For private use:

TWELVE (12) CONSECUTIVE MONTHS, with the exception of the deck and hull fiberglass structure; and

SIXTY (60) CONSECUTIVE MONTHS for the deck and hull fiberglass structure.

b) For commercial use:

FOUR (4) CONSECUTIVE MONTHS, with the exception of the deck and hull fiberglass structure; and

TWELVE (12) CONSECUTIVE MONTHS for the deck and hull fiberglass structure.

All genuine Bombardier accessories, installed by an authorized SEA-DOO SPORT BOAT dealer at the time of delivery of the new and non-current new SEA-DOO SPORT BOAT, carry the same Warranty Coverage Period as for the SEA-DOO SPORT BOAT.

## **2. WHAT BOMBARDIER WILL DO**

BOMBARDIER through the local authorized SEA-DOO International Distributor will, during the Warranty Coverage Period, repair or replace, at its option, all genuine BOMBARDIER part found defective in material and/or workmanship, under normal use, maintenance and service, with a genuine BOMBARDIER part without charge for parts and labor, at any local authorized SEA-DOO SPORT BOAT dealer.

## **3. CONDITION TO HAVE WARRANTY WORK VALIDATED**

The customer must notify a local authorized SEA-DOO SPORT BOAT dealer within two (2) days of the appearance of the defect in material and/or workmanship and present to the servicing authorized SEA-DOO SPORT BOAT dealer the SEA-DOO Warranty Registration Card or a proof of purchase of the NEW and UNUSED 2000 SEA-DOO SPORT BOAT and must sign the repair/work order prior to the start of the repair in order to validate a warranty repair. All parts replaced under this limited warranty become the property of the international SEA-DOO distributor of the specific territory and/or BOMBARDIER.

## **4. EXCLUSIONS - ARE NOT WARRANTED**

- Normal wear and tear items;
- Labor, parts and lubricant costs of all maintenance services;
- Damages caused by failure to provide proper maintenance and/or storage, as described in the *"2000 SEA-DOO SPORT BOAT Operator's Guide"*;
- Damages resulting from improper repairs, modifications or use of non-approved parts or, repairs not performed by a authorized SEA-DOO SPORT BOAT dealer;
- Damages resulting from abuse, misuse, neglect, racing;
- Damages resulting from accident, fire, theft, vandalism or any act of God;
- Incidental or consequential damages, or damages of any kind such as but not limited to towing charges, telephone calls or taxi;
- Water damages caused by water ingestion;
- Damages related to gel coat finish including but not limited to cosmetic gel coat finish, blisters or fiberglass delamination caused by blisters, crazing, spyder or hairline cracks; and
- Damages resulting from improper service or maintenance.

## 5. LIMITATIONS OF LIABILITY

This warranty gives you specific rights, and you may also have other legal rights resulting from the application of mandatory national laws which may vary from country to country. **WHERE APPLICABLE, THIS WARRANTY IS EXPRESSLY GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.**

In no event shall BOMBARDIER be liable for special, consequential or incidental damages, including but not limited to loss of use and transportation costs. Some countries do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply.

Neither the distributor, any authorized SEA-DOO SPORT BOAT 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.

Every SEA-DOO SPORT BOAT is sold with the English version of this warranty. Some authorized SEA-DOO International Distributor may elect to translate this warranty into local language, it is then understood and agreed that in the event of any discrepancies or inconsistencies between the two versions, the English version shall prevail.

It is the customer's responsibility to ensure that the SEA-DOO SPORT BOAT complies with all boating regulations and standards of any country, other than the original country of sale, where the SEA-DOO SPORT BOAT is intended to be used.

BOMBARDIER reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the SEA-DOO SPORT BOAT sold while this warranty is in effect.

## 6. TRANSFER

If the customer sells the SEA-DOO SPORT BOAT guaranteed under the present, he shall assign and transfer this warranty, which shall be valid for the rest of the relevant PERIOD as defined in section 1 hereinabove, to the new customer.

## 7. CONSUMER ASSISTANCE

- a) In the event of a controversy or a dispute arising in connection with this BOMBARDIER INTERNATIONAL LIMITED WARRANTY, BOMBARDIER suggests that you try to resolve the issue at the dealership level. We recommend discussing the issue with the authorized dealer's service manager or owner.
- b) If further assistance is required, the authorized local SEA-DOO INTERNATIONAL DISTRIBUTOR's Service Department should be contacted in order to resolve the matter.
- c) If the issue has still not been resolved, please submit in writing your complaint to:

**BOMBARDIER INC.**

**RECREATIONAL PRODUCTS**

CUSTOMER ASSISTANCE CENTER

75, J.-A. BOMBARDIER STREET

SHERBROOKE, QUEBEC

J1L 1W3

Tel.: (450) 532-5000



**BOMBARDIER**

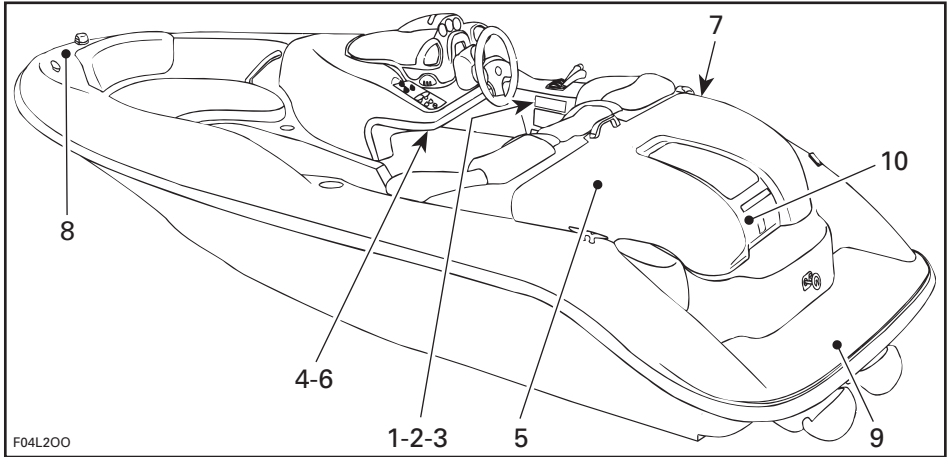
*RECREATIONAL PRODUCTS*

SEPTEMBER 1999

® Trademark of Bombardier Inc. and/or its subsidiaries

# LOCATION OF THE IMPORTANT LABELS

Please read the following labels carefully before operating your craft.



## Label 1

### **WARNING**

Read and follow warning labels, operator guide and safety handbook before operation. Severe injury or death can result from ignoring warnings or through improper use of this sport boat. The performance of this

sport boat may significantly exceed that of other boats you may have operated. Therefore, use of this sport boat by novice or inexperienced operators is not recommended.

- Check throttle/shifter and steering operation and position before starting engine(s).
- Directional control is reduced with decreasing speed and lost when engine is off.
- Do not splash others or jump waves or wakes with this sport boat.
- Operator and passengers should always wear approved PFD and recommended protective clothing.
- Do not operate if passengers are not properly seated and using handgrips, or if visibility is obstructed. Do not allow passenger(s) on most forward bow seat(s) above idle speed.
- Properly attach safety lanyard to your PFD.
- Keep a safe distance from all other water users. Be aware of and observe all applicable laws and regulations.

F04LABL

## Label 2

MADE IN U.S.A., BOMBARDIER MOTOR CORPORATION OF AMERICA  
U.S. COAST GUARD  
**MAXIMUM CAPACITIES**  
**4 PERSONS OR 325KG/715LBS**  
325 KG/715 LBS, PERSONS, GEAR

THIS BOAT COMPLIES WITH U.S. AND CANADIAN COAST GUARD SAFETY STANDARDS IN EFFECT ON THE DATE OF CERTIFICATION

CE BOAT DESIGN CATEGORY: **C**

F04LAHY

TYPICAL — REFER TO ACTUAL LABEL ON BOAT

## Label 3

**MAXIMUM ENGINE POWER  
CAPACITY RATING  
OF THE CRAFT:**  
**100 KW**

F04LAIY

TYPICAL — REFER TO ACTUAL LABEL ON BOAT

## Label 4

↓ WEEDLESS LEVER UNDERNEATH CONSOLE, 1

**WARNING:** ACTIVATE WEEDLESS SYSTEM ONLY  
WHEN ENGINES ARE STOPPED AND BOAT IS STILL.

2

F04LAKY

## Label 5

**WARNING**

Do not boost battery.  
Servicing of electrical components should be done by dealer only.

F04LACY

## Label 6

**WARNING**

Gasoline vapors can explode. Before starting engine, operate blower for **5** minutes and check engine compartment bilge for gasoline vapors.

F04LADY

## Label 7

**WARNING**

While fueling, stop engine(s). Fuel tank may be pressurized. Slowly turn cap when opening. Keep watercraft level. Do not overfill. Use regular unleaded gasoline. Check oil level. Periodically, verify fuel system.

F04LAEY

## Label 8

**WARNING**

Do not sit here above idle speed.

F04LAPY

## Label 9

**WARNING**

Engine(s) must be off when using platform.  
Keep away from jet(s) or intake grate(s).

F04LAGY

## Label 10

**EMISSION CONTROL INFORMATION**

This engine is certified to operate on unleaded gasoline and conforms to 2000 U.S. EPA regulations for marine SI Engines.

**BOMBARDIER**  
RECREATIONAL PRODUCTS

Engine Family: ..... YBCXM 3513CC  
PEL: ..... 136.7gm/kW-hr HC + NO<sub>x</sub>  
Engine Displacement: ..... 351.2 cc  
Exhaust Emission Control System: ..... CARB

Tune-Up Specifications  
Idle Speed: ..... 1400 RPM ± 100  
Spark Plug Type: ..... NGK-BR8ES  
Spark Plug Gap: ..... 0.020 in./ 0.51 mm.

F04LAJY

TYPICAL — REFER TO ACTUAL LABEL ON BOAT

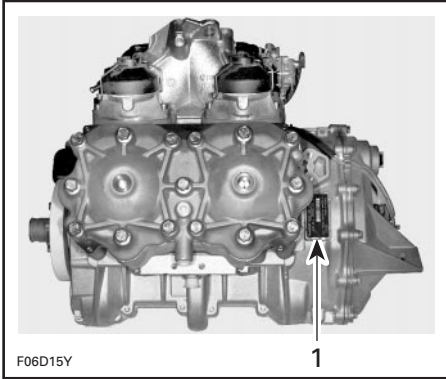


---

# IDENTIFICATION NUMBERS

## 947 Engine

The Engine Identification Number (E.I.N.) is located on the upper crankcase on MAGNETO side.



1. Engine Identification Number (E.I.N.)

---

# FUEL AND LUBRICATION

## Recommended Oil

Use BOMBARDIER-ROTAX Formula XP-S synthetic injection oil (or equivalent high quality synthetic oil) available from an authorized Sea-Doo dealer.

This fully synthetic oil provides outstanding lubrication and cleanliness, less friction and wear for greater engine performance and durability.

**CAUTION:** The **947** engine requires the use of BOMBARDIER-ROTAX Formula XP-S synthetic injection oil (or the equivalent high quality synthetic oil).

---

# BREAK-IN PERIOD

## Engine

Sea-Doo sport boats powered by Rotax engine require, a **break-in period** before operating the engine at full throttle. We recommend about 10 operating hours.

During this period, **maximum throttle should not exceed 3/4**, however, brief full acceleration and speed variations contribute to a good break-in. Continued wide open throttle accelerations, prolonged cruising speeds and overloading the engine is (are) detrimental during the break-in period.

To assure additional protection during the initial break-in period, it is recommended to add **2 liters (1/2 gal) of BOMBARDIER-ROTAX Formula XP-S synthetic injection oil (or equivalent high quality synthetic oil) in the fuel tank. The oil should be added for the first full fuel tank filling only.**

To add injection oil in the fuel tank, proceed as follows:

Fill fuel tank with approximately 50 liters (12 gal) of gasoline; then, add the required quantity of injection oil in the fuel tank.

**NOTE:** It is important to proceed in this order to allow a proper mixing of the oil in the gasoline. If oil is added first in an empty fuel tank, fuel lines will be filled up with injection oil leading in a no start condition of the engine.

**CAUTION:** Remove and clean spark plugs after engine break-in.

## 10-Hour Inspection

It is highly recommended that after the first 10 hours of operation, the sport boat be checked by an authorized dealer. This inspection will also provide the opportunity to discuss any unanswered questions you may have encountered during the first hours of operation.

---

**The 10-hour inspection is at the expense of the sport boat owner.**

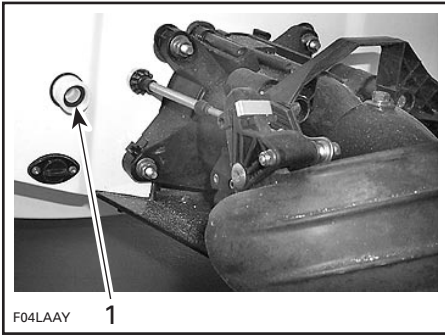
---

# POST-OPERATION CARE

## Cooling System Flushing and Engine Internal Lubrication

In conjunction with page 51 of the *2000 Challenger/Sportster Operator's Guide* for complete detailed procedure. Pay attention to the following:

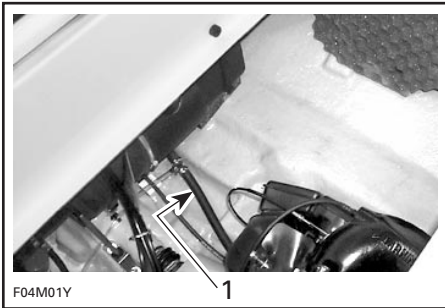
### Use of the Lower Flushing Connector



#### FLUSHING CONNECTOR ON TRANSOM

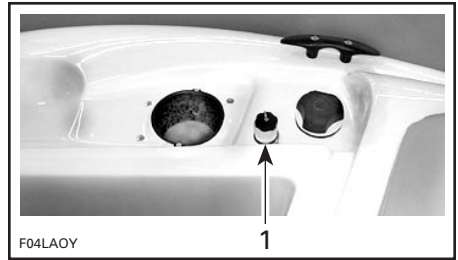
1. Plug garden hose here

### Use of the Upper Flushing Connector



#### PINCH OUTLET HOSE BETWEEN BOTH T-FITTINGS

1. Pinch hose here



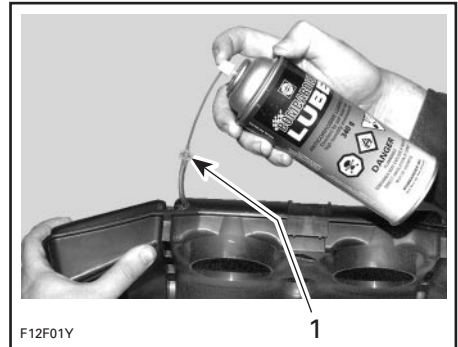
#### UPPER FLUSHING CONNECTOR

1. Remove cap then plug garden hose here

Remove hose pincher from water outlet hose, when flushing procedure is completed.

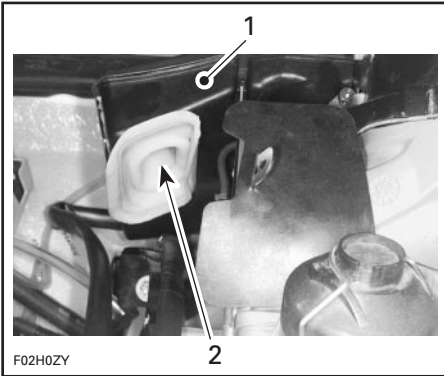
**CAUTION:** Serious engine damage can occur if hose pincher is not removed.

### Engine Internal Lubrication



#### ENGINE WITH A FOGGING TUBE

1. Partially pull tube out of air box to inject BOMBARDIER LUBE. Push tube in when finished



**ENGINE WITHOUT A FOGGING TUBE**

1. Air intake silencer
2. Spray BOMBARDIER LUBE here

**CAUTION:** Ensure to properly reposition rubber flap when done.

**NOTE:** After approximately half a minute, close fuel tank valve to run engine out of fuel while lubricating.

**CAUTION:** When engine begins to run irregularly because of fuel starvation, immediately stop water flow before engine dies.

Close the water tap then stop the engine.

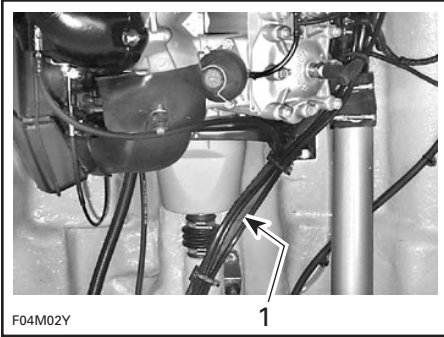
**CAUTION:** Always close the water tap before stopping the engine.

---

# SPECIAL PROCEDURE

## Towing the Craft in Water

In conjunction with page 56 of the *2000 Challenger/Sportster Operator's Guide* for complete detailed procedure. Pay attention to the following:



**PINCH WATER SUPPLY HOSE (LARGE ONE ONLY)**

1. Pinch large hose here

# STORAGE AND PRE-SEASON PREPARATION

## Propulsion System

Refer to the technical data at the end of this supplement for proper impeller shaft reservoir capacity.

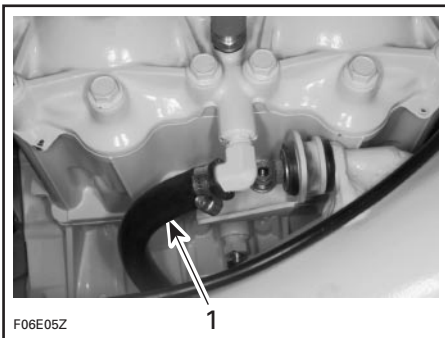
## Antifreezing Protection

In conjunction with page 71 of the *2000 Challenger/Sportster Operator's Guide*. The following procedure should be performed for Rotax 947 engine:

**NOTE:** The engine should not run during this operation.

Install a hose pincher to engine drain hose.

Disconnect engine water supply hose from cylinder head, as shown in the next photo.



1. Disconnect engine water supply hose

Temporarily install one short piece of hose to engine water inlet fitting.

Insert a funnel into hose. Pour anti-freeze mixed with water in the engine until the solution is visible in the water return hose.

Remove temporary hose and reconnect engine water supply hose to engine.

Remove hose pincher.

Most of the antifreeze will drain out when removing hose pincher. Use a container to recover it. Dispose anti-freeze as per your local laws and regulations.

**NOTE:** Although antifreeze will mainly drain out, the antifreeze has flowed to mix with water that was possibly trapped in cooling system cavities and thus preventing freezing problems.

Care should be taken with a Rotax 947 engine since water partially remains inside engine and cannot be totally drained.

**NOTE:** For pre-season preparation, drain antifreeze from cooling system prior to launching boat in water as explained above.

## Pre-Season Preparation

Use the Periodic Inspection chart at the end of this document and refer to the pre-season column.

Since technical skills and special tools are required, some operations should be performed by an authorized Sea-Doo dealer.

### **WARNING**

Observe all **WARNINGS** and **CAUTIONS** mentioned throughout this guide which are pertinent to the item being checked. When component conditions seem less than satisfactory, replace with genuine **BOMBARDIER** parts or approved equivalents.

**NOTE:** It is highly recommended that an authorized Sea-Doo dealer perform the annual safety inspection and factory campaigns in addition to the pre-season preparation all at the same time.

# PERIODIC INSPECTION CHART

	DESCRIPTION	FREQUENCY				
		First 10 hours	Every 25 hours	Every 50 hours	Every 100 hours or pre-season	To be performed by
GENERAL	Fire extinguisher condition/mounting ④	✓			✓②	O
	Lubrication/corrosion protection	①		✓	✓	O
ENGINE	Head bolts, retorque	✓			✓	D
	Support and rubber mount condition/tightness	✓		✓		D
	Exhaust system fasteners/hoses ④	✓		✓	✓	D
	RAVE valve cleaning			✓	✓	D
	Counterbalance shaft oil level (if so equipped)			✓	✓	D
	Spark plug inspection, cleaning and adjustment	✓				D
	Spark plug replacement			✓		D
COOLING SYSTEM	Ignition timing	✓			✓	D
	Flushing		✓③			O
	Hose condition and fasteners	✓		✓	✓	D
	Inspect/clean engine drain tube	✓①	✓			D
FUEL SYSTEM	Water flow regulator valve inspection				✓	D
	Carburetor adjustment including choke/throttle cable adjustments				✓	D
	Throttle/choke cables, inspection/lubrication ④	①	✓		✓	D
	Fuel filter and lines inspection ④	✓	✓		✓	D
	Fuel filter replacement				✓	D
	Fuel vent line pressure relief valve inspection		✓		✓	D
	Fuel lines, check-valve and fuel system pressurization ④	✓	✓		✓	D
	Fastener tightening (carburetors/throttle body, fuel lines) ④	✓		✓	✓	D
LUBRICATION SYSTEM	Fuel tank straps ④	✓			✓	O
	Fuel tank filling				✓②	O
	Oil injection pump adjustment	✓			✓	D
	Oil lines inspection ④	✓	✓		✓	D
	Oil filter replacement				✓	D
ELECTRICAL SYSTEM	Oil reservoir straps ④	✓			✓	O
	Oil reservoir filling				✓②	O
	Main battery cut-off switch ④	✓	✓		✓	D
	Lights condition/operation	✓	✓		✓②	D
	Bilge blower and bilge pump inspection ④	✓	✓		✓②	D
	Electrical connections (ignition system, electrical box(es), starting system, etc.) ④	✓	✓		✓	D
	Digitally Encoded Security System ④	✓			✓②	D
	Monitoring beeper	✓		✓	✓	D
STEERING SYSTEM	Battery tightness ④	✓		✓	✓②	D
	Battery charging				✓	D
	Sacrificial aluminum anode			✓		O
STEERING SYSTEM	Inspection and cable adjustment ④	✓		✓	✓	D
LOW-SPEED STEERING SYSTEM	Inspection and throttle cable adjustment ④	✓		✓	✓	D

	DESCRIPTION	FREQUENCY				
		First 10 hours	Every 25 hours	Every 50 hours	Every 100 hours or pre-season	To be performed by
PROPULSION SYSTEM	Drive shaft boot and spline condition			✓		D
	Drive shaft floating seal C-clip position			✓		D
	PTO flywheel lubrication	✓	✓			O
	Shifter system/cable adjustment ④	✓			✓	D
	Jet pump reservoir oil level/oil condition	Replace	✓		Replace	D
	Jet pump cover pusher inspection				✓	D
	Impeller condition and impeller/wear ring clearance			✓		D
	Water intake grate condition			✓②		O
HULL AND BODY	Weedless system lubrication/condition			✓		O
	Hull condition ④	✓			✓②	O
	Ride shoe condition	✓			✓	O
	Storage compartment cover locks lubrication	①		✓		O
	Deck drains/scupper valve cleaning ④	✓	✓		✓②	O

**NOTE:** Some items are included in the PRE-OPERATION CHECKS and not necessarily repeated in this chart.

D: Dealer

O: Operator

① Every 10 hours in salt water use.

② Daily checked.

③ Daily flushing in salt water or foul water use.

④ Safety item covered in the annual safety inspection (owner's expenses).



# SPECIFICATIONS

ENGINE		SPORTSTER LE
Number of engines		1
Engine type		BOMBARDIER-ROTAX 947, 2-stroke
Induction type		Reed valve
Exhaust system		Water cooled/water injected with regulator
Exhaust valve		Rotax Adjustable Variable Exhaust (RAVE)
Lubrication	Type	Oil injection
	Oil type	BOMBARDIER-ROTAX Formula XP-S synthetic injection oil
Number of cylinders		2
Displacement		951.2 cm <sup>3</sup> (58 in <sup>3</sup> )
Rev limiter setting		7200 RPM (± 50)
Engine nominal power at 6750 RPM		95 kW (127 HP)
<b>COOLING</b>		
Type		Water cooled, total loss type. Direct flow from propulsion unit
<b>ELECTRICAL</b>		
Magneto generator output		180 W @ 6000 RPM
Ignition system type		Digital DC-CDI
Spark plug	Make and type	NGK, BR8ES
	Gap	0.5 - 0.6 mm (.020 - .024 in)
Starting system		Electric starter with reduction gear
Battery		Not supplied ①
Fuses	Main	20 A (2)
	MPEM supply	5 A
	Charging system	15 A (1)
	Bilge air blower	7.5 A
	Bilge pump	3 A
	Navigation lights	3 A
	Gauges supply	5 A
	Auxiliary system	10 A

① Refer to Mercury Marine specifications.

Battery posts: On top. Round taper type.

Battery maximum allowed size: 267 mm (10-1/2 in) long x 172 mm (6-3/4 in) wide x 238 mm (9-3/8 in) high.

<b>CARBURETION</b>		<b>SPORTSTER LE</b>
Fuel type	Regular unleaded gasoline	
Carburetor	Mikuni BN 46-42. Fuel accelerator pump. Quantity: 2	
<b>PROPULSION</b>		
Propulsion system	Bombardier Formula Jet Pump	
Number of jet pumps	1	
Jet pump type	Axial flow, single stage	
Transmission	Direct drive	
Impeller shaft reservoir, oil type	Sea-Doo Synthetic polyolester SAE 75W90 GL5 gear oil	
Pivoting angle of direction (nozzle)	~ 26°	
Minimum required water level for jet pump(s)	90 cm (3 ft)	
<b>DIMENSIONS</b>		
Overall length	4.42 m (14 ft 6 in)	
Beam	2.16 m (7 ft 1 in)	
Draft	30 cm (12 in)	
Dead rise	20°	
Weight (dry)	560 kg (1235 lb)	
Load limit (passengers + luggage)	5 passengers OR 297kg (660 lb) (based on calm water operation)	
Hull material	Composite (fiberglass)	
<b>CAPACITIES</b>		
Fuel tank (reserve included)	102 L (27 U.S. gal)	
Fuel reserve	15.4 L (4.05 U.S. gal)	
Impeller shaft reservoir	Capacity	120 mL (4.0 U.S. oz)
	Oil level	Up to plug
Oil injection reservoir	9 L (2.3 U.S. gal)	

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



# DECLARATION **CE** OF CONFORMITY

Application of Council Directives: 94/25/CE — Recreational craft  
89/336/CEE — Electromagnetic compatibility

Standards to which conformity is declared: ISO 7840, ISO 8469, ISO 8665, ISO 8846,  
ISO 8848, ISO 8849, ISO 9094, ISO 9097,  
ISO 10087, ISO 10088, ISO 10133, ISO 10240,  
ISO 11105, ISO 11591, ISO 11592, ISO 12215,  
ISO 12216, ISO 13592, COLREGS, ABYC H-5,  
ABYC H-8

Manufacturer's name: Bombardier Motor Corporation of America.

Manufacturer's address: 451 E. Illinois Ave  
Benton, Illinois  
62812-0394

Importer's name: Société ANF — Industrie S.A.

Importer's address: 2, rue du Nouveau Bercy  
94220 Charenton  
Paris, France

Notified body for Directive 94/25/CE: International Marine Certification Institute  
Trèves centre, rue de Trèves 45  
1040 Brussels, Belgium

Competent body for Directive 89/336/CEE: UTAC  
Autodrome de Linas-Monthéry, B.P. 212  
91311 Monthéry cedex, France

Type of equipment: Sport boats, inshore category C

Model names and numbers: Sportster LE (5693)

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directives and Standards.

Name of signatory: Ghislain Guiot

Title of signatory on behalf of  
Bombardier Motor Corporation of America: Zone Manager — Sea-Doo sport boats

## Homologation and Certification

These boats comply with the following standards:

STANDARD	TYPE OF CERTIFICATION
United States Coast Guard	Self certification
Canadian Coast Guard	Self certification
Russian Maritime Register of Shipping	Certify by Russian Maritime Register of Shipping 8, Dvortsovaya Nab., 191186 St. Petersburg, Russia
Directive 89/336/CEE of the council relating to electromagnetic compatibility	Internal production control plus control carried out on the responsibility of a competent body.  Competent body: UTAC Autodrome de Linas-Monthéry, B.P. 212 91311 Monthéry cedex, France
Directive 94/25/EC of the European Parliament and of the council relating to recreational craft	Internal production control plus control carried out on the responsibility of a notified body.  Notified body: International Marine Certification Institute Trèves centre, rue de Trèves 45 1040 Brussels, Belgium

# Operator's Guide Confirmation of Receipt

Your dealer

Name:	_____
Address:	_____
	_____

Is the representative of our company and will afford you the necessary help to resolve any problems you may have.

As soon as you are the owner, date and sign the receipt here and give it (or send it) to the dealer to be covered by our warranty.

Warranty condition as detailed in the Warranty Section of this guide.

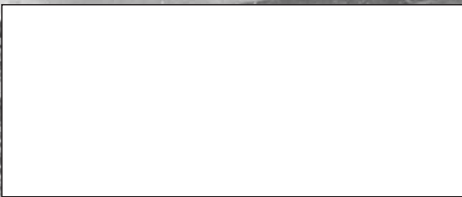
----- Cut here

Receipt	
Name:	_____
Address:	_____
Owner of _____	No. _____
HIN (to be completed by customer or selling dealer) _____	
This warranty begins _____ (date).	
The dealer named on this document has instructed me on the operation, maintenance, safety features and warranty policy, all of which I understand. I am also satisfied with the predelivery set-up and inspection of my sport boat. I have also received a copy of the <i>Operator's Guide</i> for my sport boat.	
Signature: _____	



**BOMBARDIER**  
*RECREATIONAL PRODUCTS*

# SEEN



© \*Trademarks of Bombardier Inc.  
© 1999 Bombardier Inc. - All rights Reserved  
Printed in Canada

**BOMBARDIER**  
RECREATIONAL PRODUCTS



VERSION FRANÇAISE ÉGALEMENT DISPONIBLE