



OPERATOR'S GUIDE

219 000 093

1999

GS 5847 GTI 5884, 5885 GTS 5883 SPX 5636, 5828 GSX LIMITED 5849 GSX RFI 5637, 5638 GTX LIMITED 5888, 5889 GTX RFI 5886, 5887 XP LIMITED 5868, 5869

◆ 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. You, the operator, have the responsibility to inform passenger(s) of safety precautions.

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

AFTER-SALES SERVICE BOMBARDIER RECREATIONAL PRODUCTS VALCOURT, QC CANADA JOE 2L0



The following trademarks are property of Bombardier Inc.:

SEA-DOO® Bombardier Lube® Sea-Doo Jet Pump Synthetic Oil Sea-Doo Synthetic Grease

Doin'it on your new Sea-Doo Watercraft

Congratulations, you are now the proud owner of a Sea-Doo personal watercraft. Whether you are an experienced boater or are new to the sport of boating, we ask you to take the time to view the *Videocassette* provided with the watercraft, to read this *Operator's Guide*, the *Safety Handbook* and familiarize yourself with the contents. These Guides contain pertinent information which, if followed, will provide you with the necessary knowledge to help you fully enjoy the pleasures of this craft.

We strongly recommend that any watercraft operator complete a safety boating course. Check with your local Coast Guard or Power and Sail Squadron in your area for course availability. More serious boaters may want to obtain *Chapman Piloting* by Elbert S. Maloney, available at most book stores.

When introducing your family or friends to the sport, be sure they fully understand the controls and operation of the watercraft and the importance of courteous, responsible riding.

Each operator has a responsibility to ensure the passenger safety and the safety of other water users. Please follow all safety instructions and drive with care.

We encourage you to have an Annual Safety Inspection of your watercraft. Please contact your dealer for further details.

Finally, we urge you to visit your dealer regularly for regular and safety maintenance as well as any watercraft accessories you may require.

Have fun and... Bon Voyage.

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FOREWORD

The Operator's Guide and Safety Handbook have been prepared to acquaint the owner/operator or passenger with this personal watercraft 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 watercraft at all times.

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

This Guide uses the following symbols to emphasize particular information.



WARNING

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



CAUTION

Denotes an instruction which, if not followed, might damage the watercraft 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 Inc. however, maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured.

Bombardier Inc. reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring obligation.

The illustrations show the typical construction of the different assemblies and may not represent the full detail or exact shape of the parts which have the same or a similar function.

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 *Shop Manual* can be obtained for complete service, maintenance and more repair information.

◆ SAFETY WARNING

To fully appreciate the pleasures, enjoyment and excitement of boating there are some basic rules that MUST be observed and followed by any boater. Some rules may be new to you while others may be common sense or obvious, irrespective, we ask that you please take a few minutes of your time to read these safety instructions completely 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 further recommend you take a boating safety course. Check local and federal boating laws applicable to the waterways where you intend to use the craft. Learn the local rules of the road.

Become completely familiar with the controls and operation of the craft before taking on a passenger(s) or embarking on a trip. 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 fully advancing the throttle.

The performance of this craft may significantly exceed that of other craft you may have operated. Therefore, use of this craft by a novice or inexperienced operator is not recommended.

Observe and follow all on-product warning labels and the content of this Guide.

Always use spark plug cable grounding device when removing spark plugs.

Operator and passenger(s) should wear suitable body protection, as well as deck shoes or booties. Long hair or loose clothes should be securely attached to prevent snagging in the water intake.

Coast Guard approved personal flotation devices (PFD) must be worn when riding the watercraft.

Operation of this craft by a minor or disabled person is NOT recommended.

Do not operate the craft after consuming alcohol or drugs.

Always perform the pre-operation checks as specified in this Guide. This includes:

- Attaching the safety lanyard.
- Verification of throttle lever and steering movement.
- Verification of start/stop button operation.
- Oil and fuel levels.
- Adequate water depth.
- Required boating equipment. (Know how to use each).

The operator and passenger(s) must be properly seated before starting or moving the craft.

Wave or wake jumping can be dangerous and in many regions illegal.

Most boating accidents result from the failure of the operator to keep a lookout for other water users or other potential hazards. Keep a safe distance from other boats. Do not attempt to splash others with your wake. Do not ride on the surf line.

To prevent accidental starting or unauthorized use, always detach the safety lanyard from the boat, especially during maintenance, cleaning of the intake grate, or when swimmers are nearby.

Ensure that all passengers know how to reboard the craft from the water.

Always have an observer while towing a skier.

Know the waters in which the craft is to be operated. Current, tides, rapids, shallow water, hidden obstacles etc., can affect safe operation.

When boating, apply the principle of 1/3 fuel to destination, 1/3 back and 1/3 reserve fuel supply.

Maintain the craft and equipment in top condition at all times. Adhere to the prescribed maintenance schedules.

The bilge must be kept clean of oil, water or other foreign materials. Do not carry spare fuel and inflammable liquids in any of the storage or engine compartments.

Avoid adding on accessories, or equipment which may alter the craft's configuration or balance.

Only perform servicing procedures which are detailed in this Guide. Further assistance or information can be obtained from your dealer. In many instances proper tools and training is required for certain servicing or repair procedures.

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 keep in mind that as the throttle lever is released to idle position, less directional control is available. 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.

Like any other boat, 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 area to have an idea of how long it will take to stop the craft under varying conditions.

Prolonged exposure to the sun, wind, etc., causes fatigue and may affect your reaction time.

Do not overload the craft or take on more passengers than designated for the intended type of boating. Load and altitude will also affect craft performance.

Riding with a passenger(s) makes the craft handle differently and requires greater skill.

Proceed with caution and at very low speeds in shallow water. Grounding or abrupt stops may result, or debris may be picked up and be jettisoned rearward to people or property.

As the "skipper" of a boat you are responsible for damage to other boats caused by the wake of your craft. Respect no wake zones.

Respect the rights of other water users and the environment. Allow no one to throw refuse overboard.

Do not operate the craft in inclement weather.

This watercraft is not designed for night-time operation.

Lifting the craft requires special equipment and experience. Do not attempt to lift the craft without such experience or equipment.

Respect the safety and comfort of your passenger(s) and persons being towed on skis or other water toys.

Always carry the regulatory required safety items on board. Check with local regulations or your dealer.

Due to the close proximity of other racers, it is recommended that an approved personal watercraft helmet be used during racing events. Read and follow all instructions and warnings provided with the helmet.

The engine and the corresponding components identified in this guide should not be utilized on product(s) other than those they were designed for. Maintenance procedures and specified tightening torques must be strictly adhered to. Never attempt repairs unless the appropriate tools are available. These watercraft 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.

The forces generated on the body of watercraft riders while turning, negociating waves, choppy waters, wakes or falling off the watercraft may cause injury including the possibility of broken legs and bones. Remain flexible and avoid sharp turns.

Ride prudently and have fun.



CAUTION

This vehicle is not designed for underwater operation. Combustion engine needs air to operate; consequently this vehicle can not be totally watertight. Any manouvers that keep the upper deck under water may cause severe engine problems due to water ingestion. Refer to the Limited Warranty further in this guide.

LIST OF DISTRIBUTORS

NORTH AMERICA

U.S.A. (Except Puerto Rico)	BOMBARDIER MOTOR CORPORATION OF AMERICA
	7575 BOMBARDIER COURT P.O. BOX 8035 WAUSAU, WI 54402-8035 Phone: (715) 842-8886 FAX: (715) 848-3455

CANADA Alberta British Columbia Manitoba North West Territories Ontario Quebec Saskatchewan Yukon New-Brunswick Nova Scotia Prince Edward Island	BOMBARDIER RECREATIONAL PRODUCTS 726, ST-JOSEPH ST. VALCOURT, QC J0E 2L0 Phone: (450) 532-2211 FAX: (450) 532-5077
Newfoundland	CHARLES R. BELL P.O. BOX 1050 RIVERSIDE DRIVE CORNER BROOK, NFLD A2H 6J3 Phone: (709) 634-3533 FAX: (709) 634-2444

If your SEA-DOO watercraft requires warranty service, you must take it to any authorized SEA-DOO 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 dealership.

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

NOTE: If outside North America, consult the local distributor.

BOMBARDIER LIMITED WARRANTY: 1999 SEA-DOO® WATERCRAFT

1. WARRANTY COVERAGE PERIOD

BOMBARDIER INC. ("Bombardier"), as manufacturer, warrants FROM THE DATE OF DELIVERY TO THE FIRST CONSUMER that each 1999 SEA-DOO watercraft sold, as NEW and UNUSED and PREDELIVERED by an authorized North American SEA-DOO watercraft dealer, will be free from any defects in material and/or workmanship for a PERIOD of:

TWELVE (12) CONSECUTIVE MONTHS, for private use owners, or

FOUR (4) CONSECUTIVE MONTHS for commercial use owners.

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

2. WHAT BOMBARDIER WILL DO

BOMBARDIER will repair or replace, at its option, all genuine BOMBARDIER parts 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 dealer during the Warranty Coverage Period.

3. CONDITION TO HAVE WARRANTY WORK VALIDATED

The customer must notify an authorized SEA-DOO watercraft dealer within two (2) days of the appearance of the defect in material and/or workmanship and present to the servicing authorized SEA-DOO dealer the SEA-DOO Warranty Registration Card or a proof of purchase of the NEW and UNUSED 1999 SEA-DOO watercraft 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;
- Damage caused by failure to provide proper maintenance and/or storage, as described in the "1999 SEA-DOO watercraft Operator's Guide";
- Damage resulting from improper repairs, modifications or use of non-approved parts or, repairs done by a non-authorized SEA-DOO dealer;
- Damage resulting from abuse, misuse, neglect, racing;
- Damage resulting from accident, fire, theft, vandalism or any act of God;
- Incidental or consequential damages, or damages of any kind as but not limited to towing charges, telephone calls or taxi;
- Water damages caused by water ingestion;
- Damage 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 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 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 watercraft sold while this warranty is in effect.

6. CONSUMER ASSISTANCE

- a) In the event of a controversy or a dispute arising in connection with this BOM-BARDIER 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 DISTRIBUTOR's service department should be contacted in order to resolve the matter. In the USA, SEA-DOO Products are distributed by B.M.C.A.
- c) If the issue has still not been resolved, please submit in writing your complaint to:

In Canada:

BOMBARDIER
RECREATIONAL PRODUCTS
CUSTOMER ASSISTANCE CENTER
VALCOURT QC J0E 2L0
Tel: (450) 532-5000

In USA:

BOMBARDIER MOTOR CORPORATION OF AMERICA RECREATIONAL PRODUCTS CUSTOMER ASSISTANCE CENTER P.O. BOX 8035 7575 BOMBARDIER COURT WAUSAU WI 54402 8035 Tel: (715) 848-4957

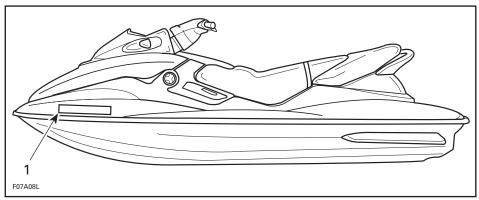
BOMBARDIER RECREATIONAL PRODUCTS JUNE 1998

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REGISTRATION NUMBER LOCATION

All personal watercraft are required by federal law to be registered and legally numbered.

Due to space availability for proper display of registration number, refer to following illustration for location. The registration number must appear on each side of the watercraft.



TYPICAL

1. Registration number location

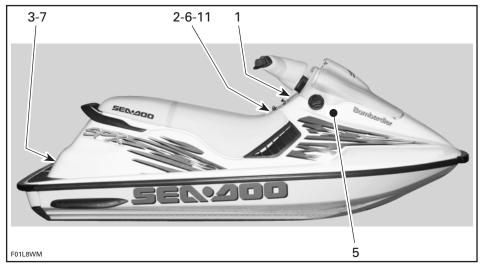
NOTE: The registration number must be above the water line. Ensure also that the numbers are of the correct size and color. Check with local regulations.

12 _____

LOCATION OF THE IMPORTANT LABELS

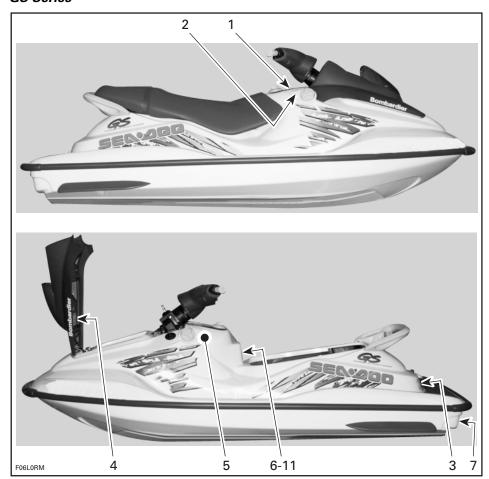
Please read the following labels carefully before operating this watercraft.

SP Series



TYPICAL

GS Series



TYPICAL

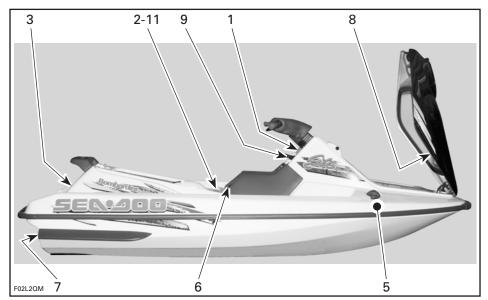
14 _____

XP Series



TYPICAL

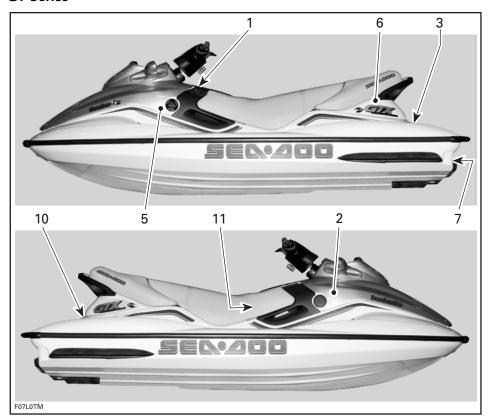
GTS Series



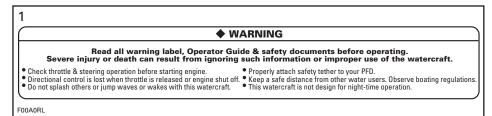
TYPICAL

16 _____

GT Series



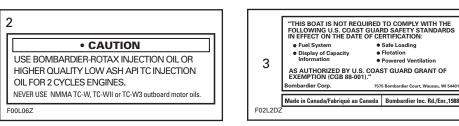
TYPICAL



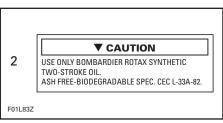
ALL MODELS EXCEPT XP LIMITED



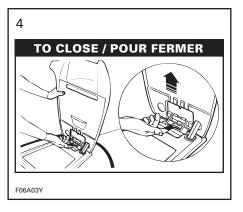
XP LIMITED



SPX, GS, GTS AND GTI MODELS



GSX LIMITED, XP LIMITED, GTX LIMITED, GSX RFI AND GTX RFI



5

♦WARNING

WHILE FUELING, STOP ENGINE. FUEL TANK MAY BE PRESSURIZED, SLOWLY TURN CAP WHEN OPENING. KEEP WATERCRAFT LEVEL. DO NOT OVERFILL. CHECK OIL LEVEL. PERIODICALLY, VERIFY FUEL SYSTEM.

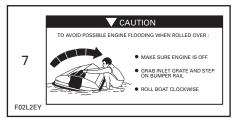
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6

WARNING

DO NOT BOOST BATTERY WHILE INSTALLED.

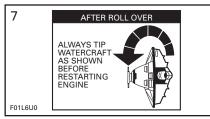
F00L05Y



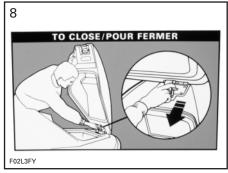
GS, GTS AND GTI MODELS



GSX LIMITED, XP LIMITED, GTX LIMITED, GTX RFI AND GSX RFI MODELS



SPX MODEL



GTS MODEL



GTS MODEL

10

♦WARNING

ENGINE MUST BE OFF WHEN USING BOARDING STEP. KEEP AWAY FROM JET OR INTAKE GRATE. STAY ON CENTER OF THE STEP. ONLY ONE PERSON. AT THE TIME ON THE STEP. NEVER USE THE STEP FOR PULLING, TOWING, DIVING OR JUMPING, BOARDING A PWC THAT IS OUT OF WATER OR ANY OTHER PURPOSE FOR WHICH IT WAS NOT DESIGNED.

F07L11Y

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Emission Control Information Bombardier Recreational Products This engine is certified to operate on unleaded gasoline and conforms to 1999 u.s. epa regulations for marine si engines. Engine family: Engine family: Engine displacement: Eng

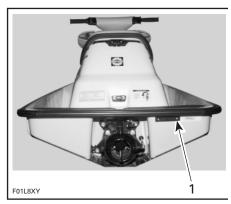
WATERCRAFT IDENTIFICATION

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

Hull Identification Number

SPX and GTS Models

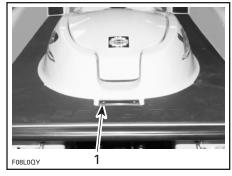
The Hull Identification Number (H.I.N.) is located at right hand rear side of hull.



1. Hull Identification Number (H.I.N.)

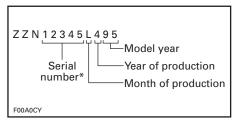
All Other Models

The Hull Identification Number (H.I.N.) is located on floorboard at the rear of watercraft.



1. Hull Identification Number

It is composed of 9 digits:

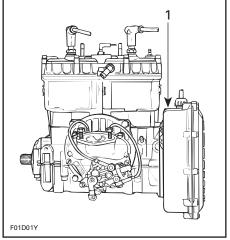


*A letter may also be used as a digit.

Engine Identification Number

717 Engine

The Engine Identification Number (E.I.N.) is located on the upper side of the magneto housing.

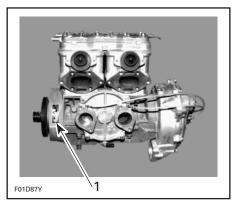


TYPICAL

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

787 Engine

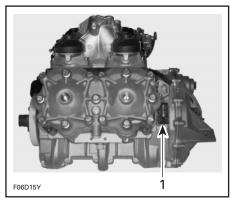
The Engine Identification Number (E.I.N.) is located on the upper crankcase on PTO side.



1. Engine Identification Number

947 Engine

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

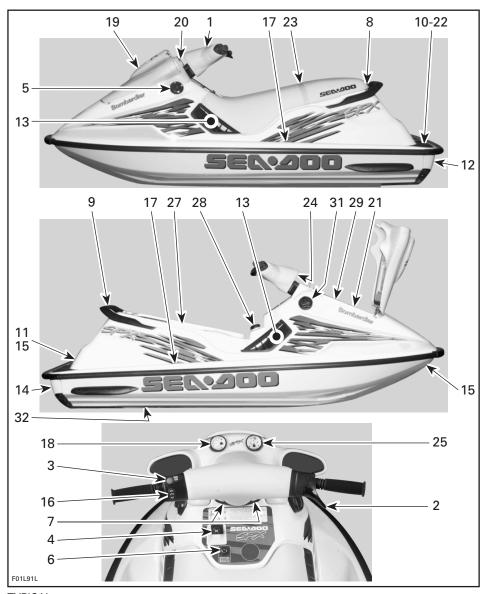


1. Engine Identification Number

COMPONENTS IDENTIFICATION

NOTE: Some components do not apply or are optional on some models.

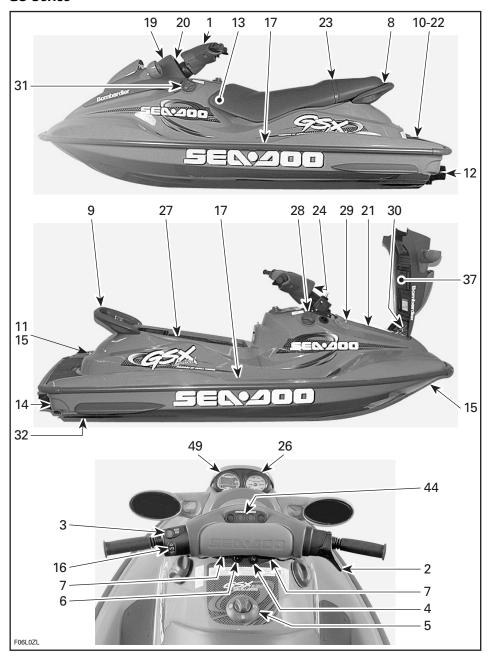
SPX Model



TYPICAL

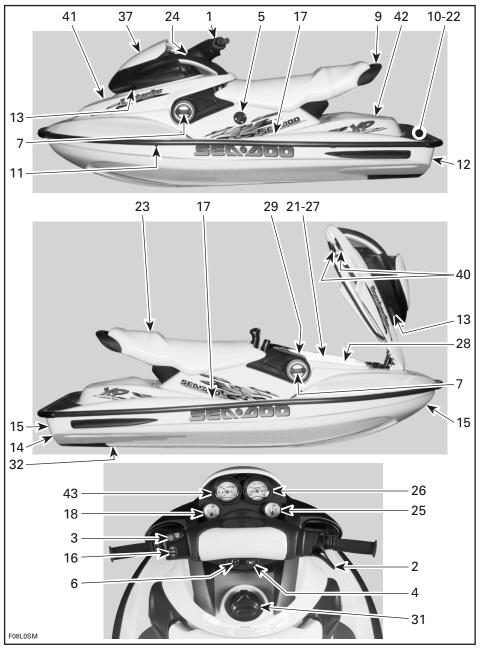
22 _____

GS Series



TYPICAL — GS, GSX LIMITED AND GSX RFI MODELS

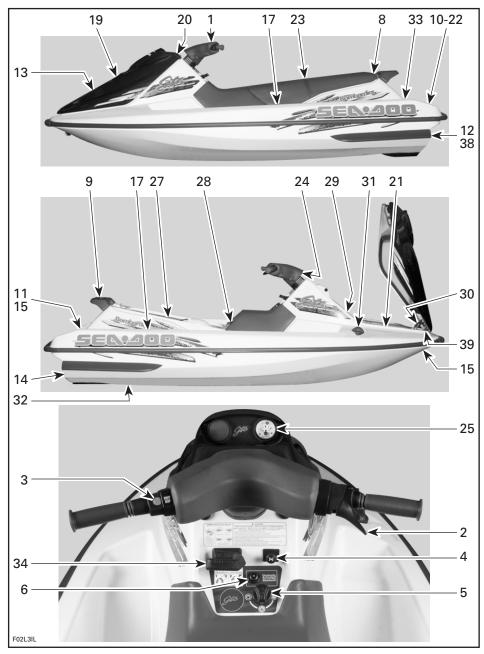
XP Limited



TYPICAL

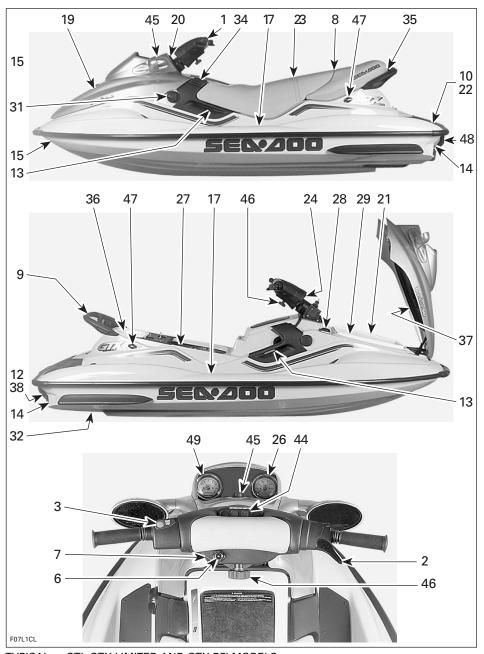
24 _____

GTS Model



TYPICAL

GT Series



TYPICAL — GTI, GTX LIMITED AND GTX RFI MODELS

26 _____

- 1. Handlebar
- 2. Throttle Lever
- 3. Start/Stop Button
- 4. Choke Lever
- 5. Fuel Valve
- 6. Safety Lanyard Switch
- 7. Docking Eyelets
- 8. Seat Latch
- 9. Rear Grab Handle
- 10. Boarding Pads
- 11. Cooling System Bleed Outlet(s)
- 12. Jet Pump Nozzle
- 13. Air Intake Opening
- 14. Bilge Drain Plug(s)
- 15. Bow and Stern Eyelets
- 16. Variable Trim System Button
- 17. Floorboard
- 18. Variable Trim System Gauge
- 19. Storage Compartment Cover
- 20. Cover Latch
- 21. Storage Compartment
- 22. Boarding Platform
- 23. Seat Strap
- 24. Monitoring Beeper
- 25. Fuel Gauge/Low Oil Warning Light
- 26. Speedometer

- 27. Engine Compartment
- 28. Oil Injection Tank Cap
- 29. Tool Kit
- 30. Storage Compartment Cover Hinge/Locking Mechanism
- 31. Fuel Tank Cap
- 32. Jet Pump Water Intake
- 33. Rear Vent Grills
- 34. Shift Lever
- 35. Rear Seat Latch
- 36. Rear Storage Basket
- 37. Glove Box
- 38. Reverse Gate
- 39. Water Tank Trap Drains
- 40. Engine Cover Latches
- 41. Engine Compartment Cover
- 42. Rear Access Cover
- 43. Tachometer
- 44. Info Center Switches
- 45. Storage Compartment Cover Lock
- 46. Handle Bar Adjustment knob
- 47. Cargo Cleats
- 48. Boarding Step
- 49. Info Center Gauge

COMPONENTS FUNCTIONS

1) Handlebar

The handlebar controls the direction of the watercraft. Turning the handlebar to the right steers the watercraft to the right and inversely.



WARNING

Check handlebar and corresponding steering nozzle operation before starting.

2) Throttle Lever

It controls the speed of the engine and therefore, the speed of the watercraft. When squeezed, watercraft accelerates. When fully released, engine automatically returns to idle speed and watercraft is gradually stopped by water drag.



WARNING

Check throttle lever operation before starting the engine.

Do not depress lever unnecessarily. A fuel accelerator pump delivers fuel to the engine each time throttle lever is applied.



CAUTION

Engine can be flooded if throttle lever is applied several times. If engine is flooded, it will not start.

3) Engine Start/Stop Button

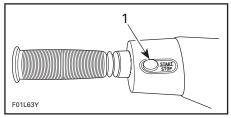
To start engine, depress and hold the button. Release immediately after engine is started.

To stop engine, fully release throttle lever then depress the button and disconnect safety lanyard from the switch.



WARNING

When the engine is stopped, watercraft directional control is not available.



1. Engine start/stop button

With the Digitally Encoded Security System, leaving the safety lanyard for more than 10 minutes after stopping the engine will require the removal and reinstallation of the safety lanyard on the switch to allow engine starting.

4) Choke Lever

All Models except GSX RFI and GTX RFI

The choke is provided to supply a richer fuel/air mixture when starting a cold engine. When the lever is completely pulled, the choke is fully applied. The use of the choke is not recommended with a warm engine.

5) Fuel Valve

All Models except GTX RFI and GSX RFI

A 3-position rotating valve: OFF, ON and RESERVE:

OFF: Stop fuel supply to carburetor(s).



CAUTION

Turn valve to OFF position when watercraft is not operated.

ON: Allows fuel to flow to carburetor(s). This is the normal position for operation of watercraft.



CAUTION

A partially open fuel valve will lead to fuel starvation and possible engine damage.

RES: Use when the watercraft has run out of fuel in the ON position.

Always refill the fuel tank at the first opportunity. After refueling, turn the fuel valve to the ON position to continue operation.

6) Safety Lanyard Switch

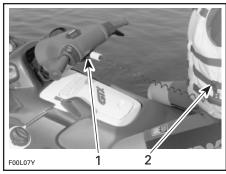
The safety lanyard cap must be securely snapped onto its switch to be fully operational.

Pulling the safety lanyard cap from the switch stops the engine operation. Attach the safety lanyard to the operator's Personal Flotation Device and snap the cap to the switch to be able to start the engine.



WARNING

Should the safety lanyard cap become loose or fails to remain on its switch, replace it immediately.



- 1. Safety lanyard cap on the switch
- 2. Safety lanyard secured on operator's PFD



WARNING

Should the engine be stopped, watercraft directional control is not available. Always disconnect safety lanyard when leaving watercraft.

Digitally Encoded Security System

This system allows an anti-start protection against unauthorized use of the craft. Dealer programmed, the safety lanyard provided with your watercraft is the only one that allows engine starting.

NOTE: Two short beeps must be heard when installing the safety lanyard cap on the switch. Otherwise, refer to the TROUBLESHOOTING section.

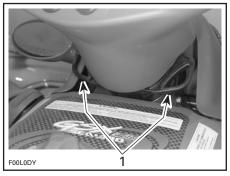
The watercraft micro-processor can be programmed to allow the use of up to 8 safety lanyards. For your convenience, we recommend the purchase of additional safety lanyards from your authorized dealer. It will prove to be useful in case of loss as well as for additional operators.

With the DESS, leaving the safety lanyard for more than 10 minutes after stopping the engine will require the removal and reinstallation of the safety lanyard on the switch to allow engine starting. To find out the meaning of the monitoring beeper coded signals, refer to TROUBLESHOOTING section.

7) Docking Eyelets

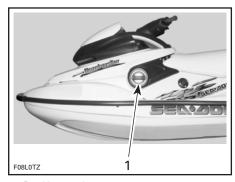
All Models Except XP Limited

These eyelets can be temporarily used for docking, while refueling for example.



1. Docking eyelets

XP Limited

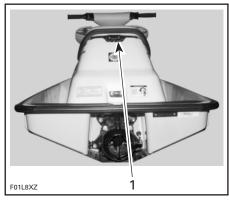


1. Docking eyelets

8) Seat Latch

Removing the seat allows access to the engine compartment and to oil tank cap/dipstick.

The seat latch is located at the rear end and underneath the seat.



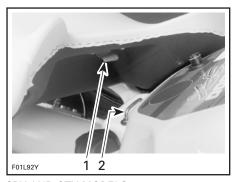
TYPICAL

1. Seat latch

To remove seat, pull the latch lever upward and hold. Lift and pull the seat rearward.

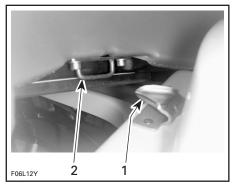
NOTE: On the GTI, GTX Limited and GTX RFI models, it is necessary to remove the rear seat first.

When reinstalling the seat, insert seat front tab into body hook.



SPX AND GTX MODELS

- 1. Insert this tab in hook
- 2. Hook



ALL MODELS EXCEPT SPX AND GTX

Pull latch lever to insert it over the rear lock pin. Release latch lever then firmly push on rear of the seat to relatch.



WARNING

Periodically verify the seat lock pin and tighten if needed. Make sure seat is securely latched.

9) Rear Grab Handle

Provides a handhold for boarding when needed and a handhold for the passenger.



CAUTION

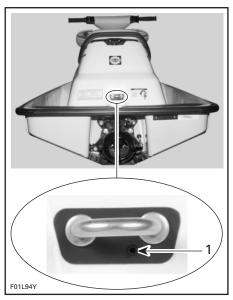
Never use the grab handle to tow anything or to lift the watercraft.

10) Boarding Pads

Provide a cushioned surface for the knees when boarding from rear of watercraft.

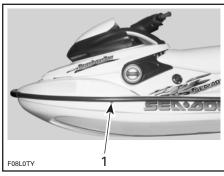
11) Cooling System Bleed Outlet(s)

All Models Except XP Limited



1. Bleed outlet

XP Limited



Bleed outlet

When engine is running, water must flow from the outlet(s). This allows air in engine cooling system to escape. It also indicates that water is circulating in the cooling system. **NOTE:** It may be required to increase slightly the engine RPM to see the water flowing out.



CAUTION

Should water not flow from outlet a few seconds after engine starts, immediately stop engine and refer to POST-OPERATION CARE and look for cooling system flushing or refer to an authorized Sea-Doo dealer for servicing.

12) Jet Pump Nozzle

It is turned from side to side via rider input at the handlebar. This provides watercraft directional control when engine is running.

Never use nozzle as a supporting point to board the watercraft or to lift it.

13) Air Intake Opening

This is where air enters to supply the engine and ventilate the engine compartment. If the air intake opening is kept under water for a long period water will get inside bilge.



CAUTION

If the air intake opening is kept under water for a long period, such as turning constantly in tight circles, water will get inside bilge, which may cause severe damage to internal parts of the engine.

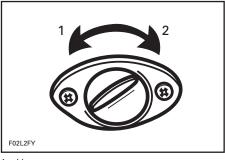
14) Bilge Drain Plugs

Should water be found in the bilge, it can be easily drained by unscrewing the drain plugs.



CAUTION

Make sure drain plugs are properly secured prior launching the watercraft in water.



Unscrew
 Tighten

Tilt the watercraft slightly to the rear so that the water can completely flow out of the bilge.



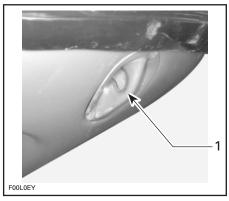
WARNING

Always make sure bilge drain plugs are properly tightened.

15) Bow and Stern Eyelets

Bow Eyelet

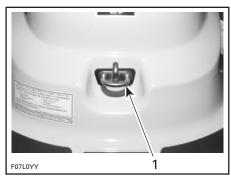
Eyelets can be used for mooring, towing and as a tie-down point during transportation.



1. Bow eyelet

This eyelet allows a rope with a hook, a closes end or an open end to be attached.

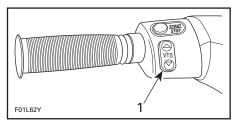
Stern Eyelet



1. Stern eyelet

16) Variable Trim System Button

Located just below engine start/stop button, this button is used to change pump nozzle position and to adjust ride to suit boat load and water conditions.

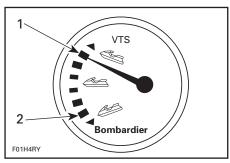


1. VTS button

17) Floorboard

User's feet should rest on the floor-board when riding.

18) Variable Trim System Gauge



TYPICAL

- Bow up
- 2. Bow down

The VTS gauge shows the riding angle of the watercraft.

19) Storage Compartment Cover

It gives access to the storage compartment. Always relatch cover after closing.

20) Cover Latch

Pull the latch lever upward in order to open the storage compartment cover. Always relatch.

NOTE: Verify periodically the lock pin tightness of storage cover. Tighten if needed and make sure storage cover latches properly.

21) Storage Compartment

A convenient watertight, removable basket to carry personal articles. Ideal location for spare spark plugs, towrope, first aid kit, etc.

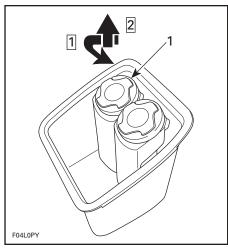


WARNING

Never leave any heavy or breakable objects in the storage basket. Never store or carry anything below basket.

All Models Except XP Limited

The basket is provided with a holder to store an approved fire extinguisher and tool kit. A second holder contains *Operator's Guide* and can be used to carry personal articles. Fire extinguisher (sold separately) should not be loose in the storage compartment.



TYPICAL

Step 1: Turn cover counterclockwise

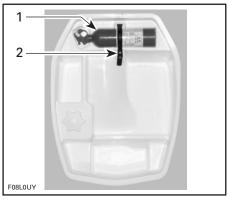
Step 2 : Lift

1. Extinguisher and tool kit holder

XP Limited

The basket is provided with separate compartments.

One of the compartment is designed to accommodate the tool kit and an approved fire extinguisher (sold separately). A strap secures the fire extinguisher.



- 1. Tool kit and fire extinguisher
- 2. Retaining strap

22) Boarding Platform

Provides a large surface for easy boarding from rear of watercraft.

23) Seat Strap

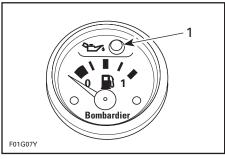
The seat strap provides a handhold when needed for boarding and is used as a handhold for the passenger.

24) Monitoring Beeper

The beeper may send different coded signals whenever a particular situation occurs. Refer to TROUBLESHOOTING section for signal description and their signification.

25) Fuel Gauge/Low Oil Warning Light

Analog gauge indicates the amount of fuel in the fuel tank and a warning light when level is low in oil tank.



1. Low oil warning light

NOTE: With the safety lanyard disconnected, electrical system can be activated for approximately 33 seconds by depressing the engine start/stop button.

26) Speedometer

Analog speedometer indicates the speed of watercraft in miles per hour (MPH) and kilometers per hour (km/h).

The speed sensor mounted on the ride plate sends the signal to the speedometer.

27) Engine Compartment

This is where the mechanical, electrical and fuel/oil systems are located.



WARNING

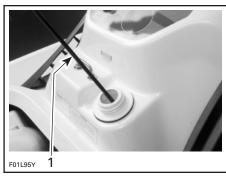
When starting or operating the engine, do not touch any electrical part. Never leave any object, rag, tool, etc., in the engine compartment or in the bilge.

28) Oil Injection Tank Cap

SPX and GTS Models

Unscrew the cap counterclockwise then pull to expose the dipstick.

NOTE: Seat has to be removed to expose oil cap.



1. Dipstick

The dipstick indicates the amount of oil to be added in the tank. Oil level should be maintained between FULL and ADD marks. Before checking oil level, place the watercraft level, then wipe the dipstick and insert it in the tank neck. Do not screw cap. Remove dipstick and read the level.

To add injection oil in the tank, unscrew the cap counterclockwise. Fully tighten when finished.

Do not overfill.

GS, GSX Limited and GSX RFI Models

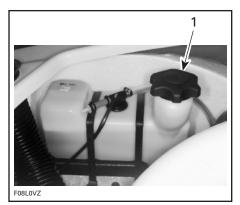
The oil cap is located on the right hand side of the watercraft.

To add injection oil in the tank, unscrew the cap counterclockwise. Fully tighten when finished.

XP Limited

Open engine cover and remove storage basket.

To add injection oil in the tank, unscrew the cap counterclockwise. Fully tighten when finished.



TYPICAL

1. Oil injection tank cap

GTI, GTX Limited and GTX RFI Models

Open the storage compartment cover to expose oil cap.

The oil cap is located on the right hand side of the watercraft.

To add injection oil in the tank, unscrew the cap counterclockwise. Fully tighten when finished.

Do not overfill.

29) Tool Kit

Contains tools needed to perform basic watercraft maintenance.

30) Storage Compartment Cover Hinge/Locking Mechanism

GS, GSX Limited and GSX RFI Models

Hinge is provided with a locking mechanism to hold storage compartment cover when fully open. To close cover, pull tab.

GTS Model

Hinge is provided with a locking mechanism to hold storage compartment cover when fully open. To close cover, pull side pins.

31) Fuel Tank Cap

Unscrew the cap counterclockwise to allow fuel tank filling. Fully tighten when finished.

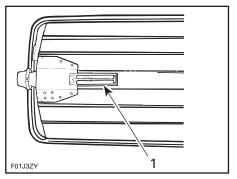


WARNING

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

32) Jet Pump Water Intake

The water is drawn up by the impeller through this opening. The impeller and the drive shaft are protected by a grate.



TYPICAL

1. Water intake

33) Rear Vent Grills

Allows air to get in or out depending on engine operation.



CAUTION

If grills are kept below water level for a long period (e.g.: when boarding 2 passengers) water will enter the bilge.

34) Shift Lever

A 3-position lever:

- forward
- neutral
- reverse



WARNING

Shift lever should only be used when the engine is idling and watercraft is completely stopped. Never rev the engine at high RPM.

GTS Model

When pushed in, the watercraft is in forward. To obtain neutral, unlock lever by turning it counterclockwise, then pull lever until neutral mark appears on rod. To engage reverse, repeat same procedure as for neutral, but pull lever until reverse mark appears on rod. Lever locks in forward and in neutral positions only.

35) Rear Seat Latch

Removing the rear seat allows access to the rear storage basket. It also gives access to the seat latch of the front seat.

36) Rear Storage Basket

A convenient watertight, removable basket to carry personal articles.

37) Glove Box

A small, convenient watertight storage compartment for keys, wallet, maps, etc.

38) Reverse Gate

When selecting the neutral or reverse position with the shift lever, the reverse gate moves up or down to obtain the desired position.



WARNING

Never use gate as a supporting point to board the watercraft.

39) Water Tank Trap Drains

If water enters the air intake opening, a water tank trap with a baffle separates water from the air then evacuates the water through the front of storage cover.



CAUTION

Unusual maneuvers such as circles with the nose of the watercraft under water will fill the bilge.

40) Engine Cover Latches

Pull both latch levers upward in order to open the engine cover. Always relatch engine cover on both sides.

NOTE: Verify periodically the lock pins tightness. Tighten if needed and make sure engine cover latches properly.

41) Engine Cover

It gives access to the engine compartment.

Always relatch engine cover after closing.

42) Rear Access Cover

It gives access to the drive system, suspension, exhaust system and bailer pick-ups. Always relatch cover.

43) Tachometer

An analog tachometer indicates the revolutions per minute (RPM) of the engine. Multiply by 1000 to obtain the actual revolutions.

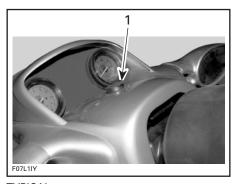
44) Info Center Switches

The MODE button is used to change display functions.

The SET button is used to set or reset a function.

45) Storage Compartment Cover Safety lock

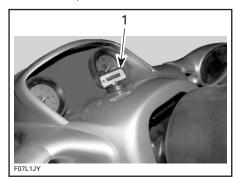
A convenient lock is provided to protect personal articles when the watercraft is unattended.



TYPICAL

1. Safety lock

To lock the storage compartment cover, insert key and rotate it 1/2 turn.



TYPICAL

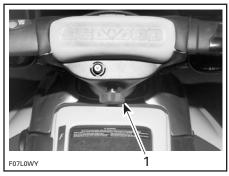
1. Insert key and rotate it 1/2 turn to lock cover

To unlock the storage compartment cover, turn key in the opposite direction.

46) Handlebar Adjustment Knob

The handlebar height can be adjusted to suit rider preferences.

To perform this adjustment, turn the knob underneath the handlebar.



TYPICAL

1. Adjustment knob

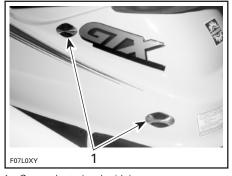
47) Cargo Cleats

These cleats are provided for securing baggage.



CAUTION

Do not use the cleats as a tiedown point for transportation or mooring.



1. Cargo cleats (each side)

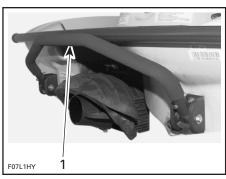
48) Boarding Step

A convenient step to help reboarding the watercraft.



WARNING

Engine must be OFF when using boarding step. Keep away from jet or intake grate. Stay on center of the step. Only one person at the time on the step. Never use the step for pulling, towing, diving or jumping, boarding a PWC that is out of water or any other purpose for which it was not designed.



Boarding step

49) Info Center Gauge

This is a LCD multifunction gauge. It features the following functions:

GSX Limited and GSX RFI Models

- clock
- tachometer
- speedometer
- peak speed
- average speed
- trip meter
- engine hourmeter
- water temperature
- chronometer
- VTS (except GSX RFI)
- fuel level
- low fuel
- low oil
- low voltage
- overheating
- maintenance information

GTX Limited and GTX RFI Models

- clock/compass
- tachometer
- speedometer
- peak speed
- average speed
- trip meter
- engine hourmeter
- water temperature
- exterior temperature
- chronometer
- fuel level
- low fuel
- low oil
- low voltage
- overheating
- maintenance information

MULTIFUNCTION GAUGE OPERATION

DISPLAY PRIORITIES

The clock/compass function is the basic mode of the Info Center gauge. Use the compass as a guide only. Not to be used for navigation purposes.

The chronometer, tachometer and speedometer are the only other modes that may be chosen to replace the clock/compass mode.

If another mode is chosen, the clock/ compass mode will be displayed again after 4 seconds.

The Info Center also features a red warning LED which blinks whenever one of the following circumstances occur: engine overheating, low fuel, low oil and low voltage.

For example, if the fuel level is low, the LED and the message LOW FUEL will blink

As a self test, all LCD segments and the LED will turn on for 3 seconds each time the watercraft is started.

In the event of a warning message such as low fuel, hi-temp, etc., the message will blink and override all other display functions.

If more than one warning message occurs, the messages will blink and reappear every 4 seconds.

SCROLLING FUNCTIONS

Press the MODE button until the desired function is displayed on the Info Center gauge.

RESET A FUNCTION

To reset a function such as the chronometer, peak speed, distance, etc., press and hold the SET button for 2 seconds while in the appropriate mode.

LANGUAGE OPTION

While in the clock/compass mode, press and hold the SET button for at least 2 seconds. Language option will be displayed.

Press the MODE button to scroll language (English, French and Spanish).

Press the SET button to confirm the desired language and return to the clock/compass mode.

ENGLISH/METRIC OPTION

Press and hold both MODE and SET buttons for at least 2 seconds. The system will be automatically changed.

CHRONOMETER

While in the chronometer mode, press the SET button to start and stop the chronometer.

Press the SET button for 2 seconds to reset the chronometer.

CLOCK ADJUSTMENT

While in the clock/compass mode, press and hold the MODE and SET buttons for 2 seconds.

Press the MODE button to adjust the hours and the SET button to adjust the minutes.

Press again on the MODE and SET buttons to return to the normal mode (or it will return to the normal mode after 10 seconds).

MAINTENANCE INFORMATION

When the watercraft is due for a maintenance inspection, the message MAINT will blink.

To clear the warning message, press the SET button for 2 seconds during the message blinking.

FUEL AND LUBRICATION

Fueling Procedure



WARNING

Follow these safe boating fueling instructions explicitly.

Do not allow anyone to remain on the watercraft.

Do not smoke or allow open flames in the vicinity.

Have a fire extinguisher close at hand.

Do not insert the spout too far in filler neck.

Pour fuel slowly so that air can escape from the tank and prevent fuel flow-back.

Do not lean watercraft while fueling.

Fill fuel tank to bottom of filler neck. **Do not overfill.** Fully tighten fuel tank cap and wipe off any fuel spillage.



WARNING

Do not lean the watercraft to allow more fuel to fill the fuel tank. The tank design makes provision for fuel expansion of about 5%. If this area is filled, fuel will expand and may come out through fuel vent. Always stop the engine before refueling. Fuel is inflammable and explosive under certain conditions. Always work in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity. Never top off the fuel tank and leave watercraft in the sun. As temperature increases, fuel expands and might overflow. Always wipe off any fuel spillage from the watercraft.

Recommended Fuel

Use regular unleaded gasoline with 87 octane (Ron + Mon)/2 specification.

NOTE: Look on service station pump sticker for octane specification. Do not mix oil with fuel except at engine break-in. Refer to BREAK-IN PERIOD. Always check injection oil tank level when refueling.

The use of good quality fuel is necessary. A well known fuel brand is highly recommended.



CAUTION

Never experiment with other fuels or fuel ratios. Never use fuel containing more than 10% alcohol, (ethanol or methanol). The use of non-recommended fuel can result in watercraft performance deterioration and damage to critical parts in the fuel system and engine components.

Recommended Oil

SPX, GS, GTS and GTI Models

Use BOMBARDIER-ROTAX injection oil which is available from authorized dealers. It is a blend of specially selected base oils and additives which provides proper lubrication, engine cleanliness and minimum spark plug fouling.

NOTE: High quality low ash API TC injection oil for 2-cycle engines can be used if BOMBARDIER-ROTAX injection oil is not available.

CAUTION

Never use 4-cycle petroleum or synthetic motor oil and never mix these with outboard motor oil. Do not use NMMA TC-W, TC-W2 or TC-W3 outboard motor oils or other ashless type 2-cycle oil. Avoid mixing different brands of API TC oil as resulting chemical reaction may cause severe engine damage.

XP Limited, GSX Limited, GTX Limited, GSX RFI and GTX RFI Models

Use BOMBARDIER-ROTAX Formula XP-S synthetic injection oil (or the equivalent synthetic oil).

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



CAUTION

The 947 engine and the 787 RFI engine requires the use of BOM-BARDIER-ROTAX Formula XP-S synthetic injection oil (or the equivalent synthetic oil).

Oil Injection System

This watercraft features an oil injection system which does not require manual fuel/oil mixing.

A sufficient amount of injection oil should be maintained in the tank.

NOTE: Always carry a 1 L of injection oil.



CAUTION

Always maintain a sufficient amount of injection oil in the oil tank. Check and refill every time vou refuel. Do not overfill. If the engine runs out of oil, severe engine damage will occur. If the oil tank is found almost empty, air can enter in the system and it must be bled. Immediately refer to an authorized Sea-Doo dealer to have the oil injection system inspected.

BREAK-IN PERIOD

Engine

With Bombardier-Rotax® watercraft engines, a break-in period is required before operating the engine at full throttle. Engine manufacturer recommendation is about 10 operating hours.

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

To assure additional protection during the initial engine break-in, BOMBAR-DIER-ROTAX injection oil should be added in the fuel tank for the first full fuel tank filling only.

MODELS	QUANTITY			
SPX	700 mL (24 oz)			
GS, GSX Limited, GTI, GTX Limited GSX RFI and GTX RFI	1 L (1.05 qt)			
XP Limited and GTS	900 mL (30 oz)			

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

Fill fuel tank with approximately 15 liters (4 gal) of gasoline; then, add the required quantity of injection oil in the fuel tank.

Fill up fuel tank with gasoline. Do not overfill.



It is important to proceed in this order to allow a proper mixing of the oil in the gasoline.

10-Hour Inspection

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

The 10-hour inspection is at the expense of the watercraft owner.

10-HOUR INSPECTION CHECK LIST		✓		
Engine ignition timing if required				
Spark plug inspection, cleaning and adjustment				
Fuel system lines and fasteners/pressurization test				
Carburetor adjustment including throttle/choke cables if required				
Oil lines and filter				
Oil injection pump adjustment if required				
Engine support and engine rubber mounts				
Muffler, battery and reservoir fastening devices				
Exhaust system hose clamps				
Throttle body and flame arrester base (RFI)				
Carburetor flange nuts (or screws) and flame arrester bracket				
Steering system inspection				
Steering cable adjustment if required				
Reverse cable adjustment if required (if	applicable)			
VTS adjustment if required (if applicabl	e)			
Cooling system hose condition and fast	eners			
Bailer pick-ups, check for obstructions				
Fuel injection sensors verification (RFI)				
Digitally Encoded Security System				
Monitoring beeper				
Electrical connections (starter, battery, etc.)				
Jet pump oil replacement				
PTO flywheel and seal carrier lubrication (if applicable)				
Inspection of fasteners for tightness				
Inspect/clean engine drain tube				
Hull inspection				
We recommend that this inspection c	hart be signed by an authorized de	aler.		
Date of 10-hour inspection	Authorized dealer signature			
	Dealer code			

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PRE-OPERATION CHECKS

Some of the following items may not have been previously covered in this Guide, however they will be described in the MAINTENANCE or SPECIAL PROCE-DURES section. Please refer to these sections to have more detailed information.

Prior to your daily ride, verify the following:



Safety lanyard must always be removed from switch prior to verifying any of the following.

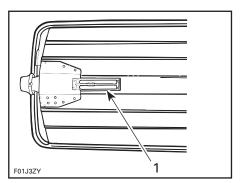
ITEM	OPERATION	1	
Hull	Inspect.		
Jet pump water intake	Inspect/clean.		
Bilge	Drain. Ensure plugs are secured.		
Battery	Inspect tightness of cables and retaining strap(s).		
Fuel and oil tanks	Refill.		
Engine compartment	Verify for any fuel leak/odor.		
Fire extinguisher	Inspect condition/mounting.		
Steering and throttle systems	Check operation.		
Reverse system (if applicable)	Check operation.		
VTS (if applicable)	Check operation.		
Safety lanyard, engine start/stop button	Check operation.		

Hull

Inspect hull for cracks or damage.

Jet Pump Water Intake

Remove weeds, shells, debris or anything else that could restrict the flow of water and damage cooling system or propulsion unit. Clean as necessary. If any obstruction can not be removed, refer to an authorized dealer for servicing.



TYPICAL

1. Inspect this area

Inspect leading edges of the impeller, if they have nicks or bends performance will be greatly reduced.

Bilge

Should water be present in the bilge, tilt the watercraft to the rear and unscrew drain plugs to completely empty the bilge.

Secure bilge drain plugs.

Battery



WARNING

Verify tightness of battery cables and retaining strap(s).

Fuel and Oil Tanks

With the watercraft horizontal, fill the fuel tank to specified level with fuel.

Check the oil level and refill tank as necessary.

Check fuel/oil tank retaining straps.

Engine Compartment



WARNING

Should any leak or gasoline odor be present, do not start the engine or operate the watercraft. Refer to an authorized dealer immediately.

Fire Extinguisher

Make sure it is full, in good condition and well secured.

Steering and Throttle Systems

Assisted by another person, check steering operation for free movement. When the handlebar is horizontal, the jet pump nozzle should be in the straight ahead position. Ensure the jet pump nozzle pivots easily while handlebar is turned.

Check throttle lever ONCE for free and smooth operation. It must return to its initial position immediately after it is released.



CAUTION

Engine can be flooded if throttle lever is applied several times. If engine is flooded, it will not start.

Reverse System (if applicable)

Check reverse gate operation for free movement. With the shift lever in forward position, the gate should be in upward position. Ensure the reverse gate moves easily while shift lever is pulled.



WARNING

Verify the reverse gate locking operation before starting the engine.

Variable Trim System (if applicable)

Push on arrows on VTS button to check nozzle movement.

NOTE: With the safety lanyard disconnected, electrical system can be activated for approximately 33 seconds by depressing the engine start/stop button.

Safety Lanyard and Engine Start/Stop Button

Ensure that both switches operate properly. Start engine and stop it using each switch individually.



WARNING

If engine does not shut-off when pushing engine start/stop button or by disconnecting the safety lanyard, stop the engine by applying the choke and turning fuel valve to OFF position. Do not operate the watercraft further, see an authorized Sea-Doo dealer.

Clothing



WARNING

Always wear a Coast Guard approved PFD. It is also recommended that gloves, wet suit, and deck shoes/booties be worn when operating the watercraft. In some instances, for example racing or buoy courses, an approved helmet should be worn.

OPERATING INSTRUCTIONS



WARNING

Always perform the PRE-OPERATION CHECKS before operating the watercraft. Become thoroughly familiar with all controls and the function of each. Should any control or instruction not be fully understood, refer to an authorized Sea-Doo dealer.

Principle of Operation Propulsion

The engine is directly coupled to a drive shaft which, in turn, rotates an impeller. This impeller is accurately adjusted in a housing where the water is drawn up from underneath the watercraft. Then the water flows through the impeller to a venturi. The venturi accelerates the water and produces thrust to move the watercraft. Depressing the throttle lever increases engine speed and therefore watercraft speed.



TYPICAL



WARNING

Whenever the engine is to be started, the operator and any passenger(s) should always be sitting on the watercraft.

Neutral and Reverse (if applicable)

Neutral and reverse are obtained by moving a reverse gate, which deviates the thrust of water.

To obtain neutral position, pull shift lever halfway. The reverse gate will be in the middle position, deviating half of the thrust to minimize watercraft movement.



WARNING

When the watercraft is in neutral position, the drive shaft and impeller are turning.



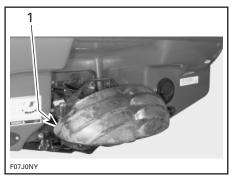
GTS MODEL

1. Shift lever in neutral position



GTI, GTX LIMITED AND GTX RFI MODELS

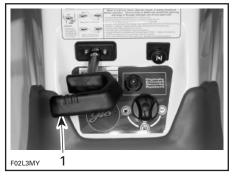
1. Shift lever in neutral position



TYPICAL

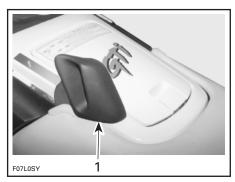
1. Reverse gate in middle position

To obtain reverse position, pull shift lever completely. The reverse gate will be in downward position, deviating all the thrust toward the front of the watercraft.



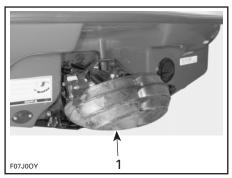
GTS MODEL

1. Shift lever in reverse position



GTI, GTX LIMITED AND GTX RFI MODELS

1. Shift lever in reverse position



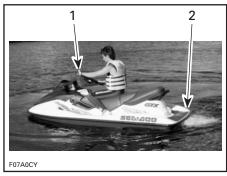
TYPICAL

1. Reverse gate in downward position

NOTE: To get maximum efficiency and control from the reverse, increase engine speed to just above idle.

In reverse position, turn the handlebar the opposite direction that you want to move the rear of the watercraft.

For example, to steer the rear of the watercraft to the left side, turn the handlebar to the right side.



- 1. Handlebar turned to the right side
- 2. Rear of watercraft moving to the left side



WARNING

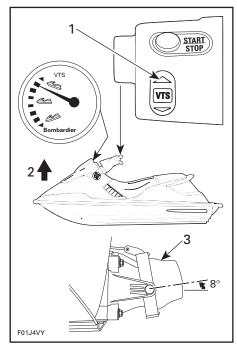
Shift lever should only be used when the engine is idling.

Variable Trim System (if applicable)

The variable trim system (VTS) changes the angle of the jet pump nozzle to provide the operator with a fast, effective system to compensate for load, thrust, riding position and water conditions. Correctly adjusted, it can improve handling, reduce porpoising, and position the watercraft at its best riding angle to attain maximum performance.

When first using the craft, the operator should become familiar with the use of the variable trim system (VTS) at varying speeds and water conditions. A mid-range trim is generally used when cruising. Experience alone will dictate the best trim for the conditions. During the watercraft break-in period, when lower speeds are recommended, it is an excellent opportunity to gain familiarity of trim adjustment and its effects.

When the nozzle is positioned in an upward angle, the water thrust directs the bow of the watercraft upward. This position is used to optimize high speed.

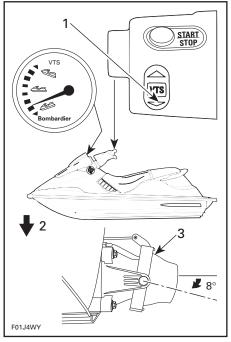


TYPICAL

- 1. Push on arrow pointing upward on VTS button
- 2. Bow up
- 3. Nozzle up

NOTE: Models equipped with an Info Center, VTS position is indicated on a bar graph.

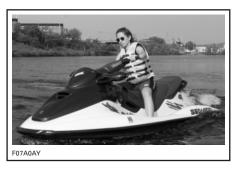
When the nozzle is directed downward, the bow is forced downward and enhances the craft turning capabilities. As with any watercraft, speed and operator body position and movement (body English), will determine the degree and sharpness of the craft turn. Porpoising can be reduced or eliminated if the nozzle is downward and speed adjusted proportionately.



TYPICAL

- Push on arrow pointing downward on VTS button
- 2. Bow down
- 3. Nozzle down

Steering



Turning the handlebar pivots the jet pump nozzle which controls the watercraft direction. Turning the handlebar to the right will turn the watercraft to the right and inversely. The throttle must be applied to turn the watercraft.



Directional control is lost when the throttle is closed. Throttle must be applied and handlebar turned to change the direction of the watercraft. Steering efficiency will differ with carrying loads and water conditions.

The more the throttle is applied while turning the handlebar, the sharper the turn will be.

Unlike a car, a watercraft needs some throttle to turn. Practice in a safe area applying the throttle and turning away from an imaginary object. This is a good collision avoidance technique.

The watercraft behaves differently with a passenger and requires greater skill. The passenger should always grip the seat strap or grab handle. Reduce speed and avoid sharp turns. Avoid choppy water conditions when carrying a passenger.

Boarding from a Dock or in Shallow Water

As with any craft, getting aboard should be done carefully.

When boarding from a dock, slowly place one foot on the watercraft floor-board nearest the dock and, at the same time, transfer the body weight to the other side in order to balance the watercraft while holding the handlebar. Then, bring the other foot over the seat and put it on the other floor-board. Push the watercraft away from the dock.



V

CAUTION

The engine should be started with at least 90 cm (3 ft) of water below the hull.



A. 90 cm (3 ft)

In shallow water, board the watercraft either from the side or the rear.



WARNING

An inexperienced operator should practice how to get aboard close to the shore to simulate deep water boarding. See **Boarding in Deep Water** in this section.

Starting the Engine

SPX, GS, GTS, and GTI Models

Before unloading the watercraft from the trailer, it can be started for about 10 seconds to verify proper operation.



WARNING

Do not touch electrical parts or jet pump area when engine is running.

Attach the safety lanyard to the operator's PFD and snap the cap to the switch before starting the engine.



WARNING

Only start the watercraft once all controls have been checked and operate properly. Operator and passenger (if applicable) should be sitting on the watercraft seat prior to starting the engine.

Cold Engine

Turn the fuel valve to ON position.

Firmly grip handlebar with your left hand and place both feet on the floor-board

Fully pull the choke lever with your right hand and depress the start/stop button.



TYPICAL

1. Fully pulled

Immediately after engine is started, release start/stop button and release choke lever half way.



CAUTION

To avoid starter motor overheating, the cranking period should not exceed 5-10 seconds and a rest period should be observed between cranking cycles to let the starter cool down and its mechanism disengage.

A few seconds after, release the choke lever and if necessary, slightly apply throttle to keep engine running.

Warm Engine

The same procedure as a cold engine applies, except the choke does not need to be applied and throttle lever has to be slightly depressed.

Cold and Warm Engine

To start engine, depress and hold the start/stop button.

If engine fails to start after 10 seconds, wait a few seconds then repeat procedure.

Release start/stop button immediately after engine is started.

GSX RFI, GTX RFI Models

Cold and Warm Engine

Firmly grip handlebar with both hands and place both feet on the floorboard.

To start engine, depress and hold the start button. Release immediately after engine is started.

NOTE: Do not depress the throttle lever to start either a cold or warm engine.

All Models

Slowly accelerate to reach deeper water. Do not apply full throttle until the engine is warm.



4

WARNING

In shallow water, shells, sand, pebbles or other objects could be drawn up by the jet pump and damage impeller, components or clog the cooling system. Also, debris could be thrown rearward into bystanders.

Obstacles

Verify that the path ahead of the watercraft is clear of other craft or obstacles. Avoid riding close to swimmers. Check local boating laws for safe operation.

Boarding in Deep Water

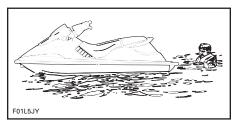


WARNING

Inexperienced riders should practice how to get aboard close to shore first before venturing into deep water.

Operator Alone

Swim to the rear of the watercraft.

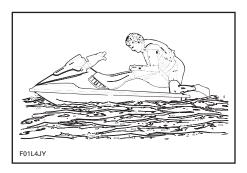


Grip the grab handle and pull yourself upward until your knee can reach the boarding platform then grip the seat strap.

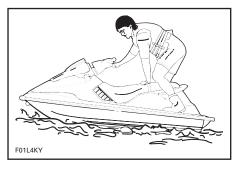


CAUTION

Never use jet pump components as a supporting point to board the watercraft.



Bring your feet on the floorboard while maintaining balance using the handle-bar (except GT models).



Sit astride the seat.

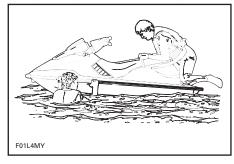
Attach the safety lanyard to the operator's PFD and snap the cap to the switch before starting the engine.

Start the engine.

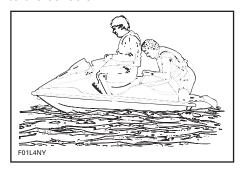
Operator with a Passenger

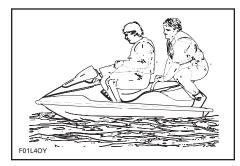
The operator climbs on the watercraft the same way as explained previously.

In choppy water, the passenger, while in the water, may hold the watercraft to help the operator in climbing aboard.



The passenger then climbs on the watercraft while the operator maintains balance by sitting as close as possible to the console.





Attach the safety lanyard cap to the switch before starting the engine.



WARNING

Do not start engine until the passenger(s) are properly seated. Do not accelerate fast.

Rough/Choppy Water Operation

Avoid operation in these conditions. If you must do so, proceed with caution using minimum speed.

Crossing Waves

Reduce speed.

Always be prepared to steer and balance as necessary.

When crossing wakes, always keep a safe distance from boat ahead.

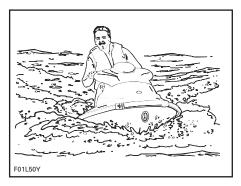


WARNING

When crossing wakes, slow down. Operator and passenger(s) can brace themselves by posting. Do not jump waves or wakes.

Stopping/Docking

The watercraft is slowed by water drag. The stopping distance will vary depending on the watercraft size, carrying weight, water condition, wind and current.



The operator should familiarize himself with the stopping distance under different conditions.

Release the throttle at a sufficient distance before the expected landing area, water resistance slows down the watercraft.

Reduce speed when approaching a dock then shut off the engine just before coming alongside.

On models equiped with neutral/reverse system, you may change the position of the shifter to neutral and reverse to perform docking maneuvers.



WARNING

No directional control is available when the throttle is closed or engine is shut off.

Beaching

Proceed the same way as for docking except for the following:

Approach the beach slowly and shut off the engine when there is about 90 cm (3 ft) of water under the hull.



•

WARNING

In shallow water, shells, sand, pebbles or other objects could be drawn up by the jet pump and damage impeller, components or clog cooling system. Also, debris could be thrown rearward into bystanders.

Get off watercraft and pull it to the beach.

Shutting Off the Engine

To keep watercraft directional control, the engine should be running until the watercraft is at idle.

To shut off the engine, completely release throttle lever and press the engine start/stop button. Remove safety lanyard from watercraft.



WARNING

Should the engine be shut off, watercraft directional control is not available. Never leave the safety lanyard on an unattended watercraft.

POST-OPERATION CARE

General Care

Remove the watercraft from the water every day to prevent marine organisms growth.

Should any water be present in the hull, unscrew the drain plugs and tilt the watercraft to the rear in order to allow water to flow out.

Wipe up any remaining liquid in the engine compartment (bilge, engine, battery, etc.) with clean dry rags (this is particularly important in salt water use).

Additional Care for Foul Water or Salt Water

When the watercraft is operated in foul water and particularly in salt water, additional care must be taken to protect the watercraft and its components. Rinse bilge area with fresh water.



CAUTION

Failure to perform proper care such as: watercraft rinsing, cooling system flushing and anticorrosion treatment, when watercraft is used in salt water, will result in damage to the watercraft and its components. Never leave the watercraft stored in direct sunlight.

Cooling System Flushing and Engine Internal Lubrication

Flushing the cooling system with fresh water is essential to neutralize corroding effects of salt or other chemical products present in water. It will help to clean up sand, salt, shells or other particles in water jackets (engine, exhaust manifold, tuned pipe) and/or hoses.

Engine lubrication and flushing should be performed when the watercraft is not expected to be used further the same day or when the watercraft is stored for any extended time.

Proceed as follows:



WARNING

Perform this operation in a well ventilated area.

Clean jet pump by spraying water in its inlet and outlet and then BOMBAR-DIFR LUBE Jubricant.

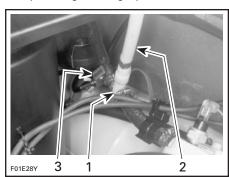
SPX and GTS Models

Remove seat to allow access to cooling system.

Remove dust cap from fitting spigot and attach coupler hose (P/N 295 500 258). Make sure coupler hose is properly locked to fitting spigot.

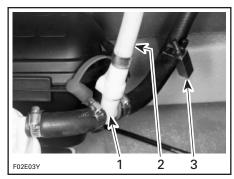
Install a hose pincher on water outlet hose.

NOTE: This prevents water from directly exiting cooling system.



SPX MODEL

- 1. Fitting spigot
- 2. Coupler hose
- 3. Hose pincher



GTS MODEL

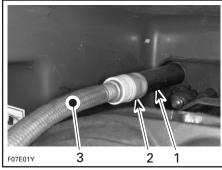
- 1. Fitting spigot
- 2. Coupler hose
- 3. Hose pincher

Attach other end of coupler hose to a garden hose. Do not open water tap vet.

All Models Except SPX and GTS

To flush engine, connect a garden hose to connector located at the rear of watercraft near the jet pump.

NOTE: A quick connect adapter can be used (P/N 295 500 473). No hose pincher is required to flush engine.



TYPICAL

- 1. Hose adapter
- Quick connect adapter (not mandatory)
 Garden hose

NOTE: The quick connect adapter is supplied with GSX RFI and GTX RFI models

All Models

Start the engine then immediately open the water tap.



WARNING

Do not touch any electrical parts or jet pump area when engine is running.

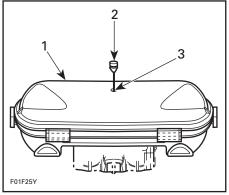


CAUTION

Never flush a hot engine. Always start the engine before opening the water tap. Open water tap immediately after engine is started to prevent overheating.

Run the engine about 3 minutes at a fast idle around 3500 RPM.

Spray BOMBARDIER LUBE lubricant into air intake silencer keeping engine at fast idle.



SPX, GS, GTS, GTI, GTX RFI AND GSX RFI MODELS

- 1. Air intake silencer
- 2. Pull plug
- 3. Spray BOMBARDIER LUBE here

NOTE: Lubrication of engine should be done for at least 1 minute. After approximately half a minute, close fuel valve to run engine out of fuel while lubricating.

V 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.

Disconnect the garden hose.

SPX and GTS Models

Unlock and remove coupler hose. Reinstall dust cap over fitting spigot.

Remove hose pincher from water outlet hose.



CAUTION

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

All Models

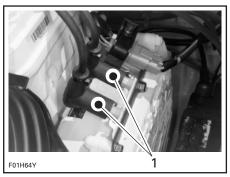
Wipe up any residual water from the engine.

Remove spark plug cables and connect them on the grounding device.



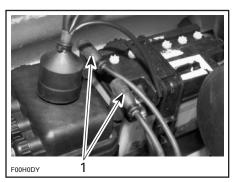
WARNING

Always use spark plug cable grounding device when removing spark plugs.



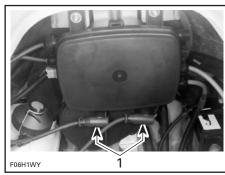
GTS MODEL

1. Spark plug cables on grounding device



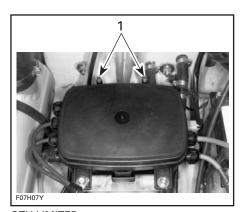
SPX. GS AND GTI MODELS

1. Spark plug cables on grounding device



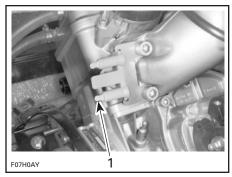
GSX LIMITED

1. Spark plug cables on grounding device



GTX LIMITED

1. Grounding device



GTX RFI AND GSX RFI MODELS

1. Grounding device

Remove both spark plugs and spray BOMBARDIER LUBE lubricant into each cylinder.

Install safety lanyard on the switch.

Fully apply throttle lever then depress start/stop button to crank the engine a few turns to distribute the oil onto cylinder wall.

GSX RFI and GTX RFI Models

Fully apply throttle lever then install safety lanyard on the switch.

Depress start/stop button to crank engine a few turns.

NOTE: Proceeding in this order, no fuel will be injected into the engine.

Apply anti-seize lubricant on spark plug threads then reinstall them.

Reinstall plug on air intake silencer cover.

NOTE: Engine fogging should be done with BOMBARDIER LUBE lubricant whenever the watercraft is to be stored for few days or a long period.

Anticorrosion Treatment

To prevent corrosion, spray a corrosion inhibitor (salt water resistant) such as BOMBARDIER LUBE lubricant or equivalent over metallic components in engine compartment.

Apply dielectric grease (salt water resistant) on battery posts and cable connectors.



CAUTION

Never leave rags or tools in the engine compartment or in the bilge.

SPECIAL PROCEDURES

Engine Overheating

If the monitoring beeper sounds continuously, **stop engine immediately**.

Perform Jet Pump Water Intake and Impeller Cleaning procedure shown in this section.

Flush cooling system, refer to POST-OPERATION CARE.

If engine still overheats, refer to an authorized Sea-Doo dealer for servicing.

Jet Pump Water Intake and Impeller Cleaning

Weeds, shells or debris can get caught on the intake grate, drive shaft and/or impeller. A clogged water intake may cause troubles such as:

- Cavitation: Engine speed is high but watercraft moves slowly due to reduced jet thrust, jet pump components may be damaged.
- Overheating: Since the jet pump operation controls the flow of water to cool the engine, a clogged intake will cause the engine to overheat and damage engine internal components.

A weed clogged area can be cleaned as follows:

In Water Cleaning

Rock the watercraft several times while repeatedly pressing start/stop button for short period without starting engine. Most of the time, this will result in letting the weeds fall from the intake area. Start engine and make sure water flows out from bleed outlet(s) and watercraft operates properly.

GTS, GTI, GTX Limited and GTX RFI Models

If the aforementioned method does not work, the following can be performed:

- With engine running, put shift lever in reverse position and vary throttle guickly several times.
- Repeat procedure if necessary.

On Beach Cleaning

Place a cardboard or a carpet beside the watercraft to prevent scratching when turning the watercraft for cleaning.

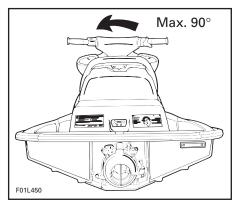


WARNING

Always remove safety lanyard cap from switch to prevent accidental engine starting before cleaning the jet pump area.

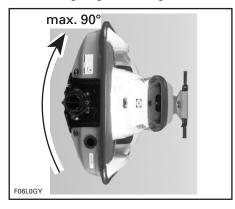
SPX, GS, GTS and GTI Models

Rotate the watercraft counterclockwise (seen from rear) to its left side for cleaning. Rotating watercraft counterclockwise eliminates the possibility of residual water in the tuned pipe entering the engine and causing engine damage.



GSX Limited, XP Limited, GTX Limited, GSX RFI and GTX RFI Models

Rotate the watercraft clockwise (seen from rear) to its right side for cleaning. Rotating watercraft clockwise eliminates the possibility of residual water in the tuned pipe entering the engine and causing engine damage.



All Models

Clean the water intake area. If the system is still clogged, refer to an authorized Sea-Doo dealer for servicing.



CAUTION

Inspect water intake grate for damage. Refer to an authorized Sea-Doo dealer for repair as necessary.



CAUTION

Avoid watercraft operation in weeded areas. If unavoidable, vary watercraft speed. Weeds tend to entangle more at steady speed and at slow speed.

Capsized Watercraft SPX Model

The watercraft is designed so that if it is turned over, it should not remain capsized due to its self-righting capability.

After roll over, always tip watercraft counterclockwise (maximum 90°) before restarting engine.

All Models Except SPX

The watercraft is designed so that it should not turn over easily, due to its longer and larger dimensions. Also two sponsons mounted on the side of the hull assist watercraft stability. If it turns over, it will remain capsized due to its non self-righting capability.

GS, GTS and GTI Models

To return the watercraft upright, grab the inlet grate, step on bumper rail and use your weight to rotate it **clockwise** (seen from rear).



CAUTION

Always refer to decal located on stern of watercraft.

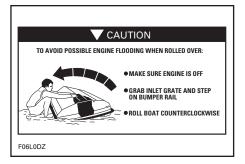


GSX Limited, XP Limited, GTX Limited, GSX RFI and GTX RFI Models

To return the watercraft upright, grab the inlet grate, step on bumper rail and use your weight to rotate it **counterclockwise** (seen from rear).



Always refer to decal located on stern of watercraft.



Submerged Watercraft

If the watercraft is submerged and engine is water-flooded, it is strongly recommended that the watercraft be serviced by an authorized Sea-Doo dealer immediately.

In the event the engine cannot be serviced within a few hours, remove spark plug cables and connect them on the grounding device.



WARNING

Never crank engine with spark plugs removed unless spark plug cables are connected to the grounding device.

Remove spark plugs and dry them with a clean and dry cloth.

Cover spark plug holes with a rag.

Crank engine for approximately 10 seconds to allow water to escape from spark plug openings.

Spray BOMBARDIER LUBE lubricant into spark plug holes.

Crank engine again.

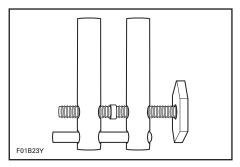
Reinstall spark plugs.

Towing the Watercraft in Water

Special precautions should be taken when towing a Sea-Doo watercraft in water

Maximum recommended towing speed is 24 km/h (15 MPH).

When towing your watercraft in water, pinch the water supply hose from the impeller housing to the engine with a large hose pincher (P/N 529 030 400) shown in the following illustration.



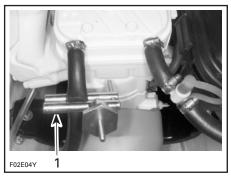
This will prevent the cooling system from filling which may lead to water being injected into and filling the exhaust system. Without the engine running there isn't any exhaust pressure to carry the water out the exhaust outlet.



CAUTION

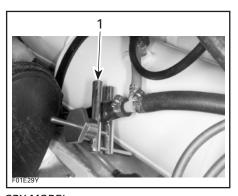
Failure to do this may result in damage to the engine. If you must tow a stranded watercraft in water and do not have a hose pincher be sure to stay well below the maximum towing speed of 24 km/h (15 MPH).

Snugly install the hose pincher on the water supply hose as shown.



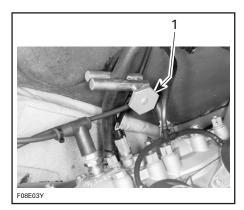
GS, GTS AND GTI MODELS

1. Hose pincher



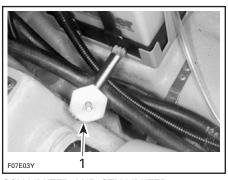
SPX MODEL

1. Hose pincher



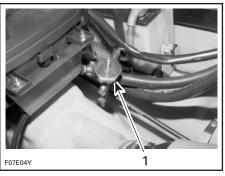
XP LIMITED

1. Hose pincher



GSX LIMITED AND GTX LIMITED

1. Hose pincher



GSX RFI AND GTX RFI MODELS

1. Hose pincher



CAUTION

When finished towing the watercraft, hose pincher must be removed before operating it.

Low-charge Battery Condition

See your Sea-Doo dealer to have it charged or replaced.



WARNING

Do not charge or boost the battery while installed on the watercraft.

Flooded Engine

If the engine does not start and it is suspected to be flooded, proceed as follows:

Remove spark plug cables and connect them on the grounding device.



WARNING

Always use spark plug cable grounding device when removing spark plugs.

Remove spark plugs and dry them using a rag.

Cover spark plug holes with a rag.

All Models Except GTX RFI and GSX RFI

Install the safety lanyard cap on the switch.

Ensure choke lever is completely pushed in.

Depress and hold the throttle lever at full throttle position.

Depress the start/stop button to crank the engine approximately 10 seconds to expell water from engine.

Reinstall spark plugs and connect cables.

Start engine normally.

GTX RFI and GSX RFI Models

Depress and hold the throttle lever at full throttle position.

Install the safety lanyard cap on the switch.

Depress the start/stop button to crank the engine approximately 10 seconds.

Proceeding in this order, no fuel is injected and the accumulated fuel in the engine will be expelled.

Reinstall spark plugs and connect cables.

Start engine normally without applying the throttle.

MAINTENANCE



WARNING

Only perform procedures as detailed in this Guide. It is recommended that the assistance of an authorized dealer be periodically obtained on other components/systems not covered in this Guide. Unless otherwise specified, engine must not be running and the safety lanyard must be removed for all maintenance procedures.

Lubrication

Use SEA-DOO synthetic grease and lubricate PTO flywheel every 10 hours. Proceed as follows:

Remove seat(s) to expose engine compartment (for the XP Limited, remove rear access panel).

On SPX, GS and GSX Limited, remove vent tube support.

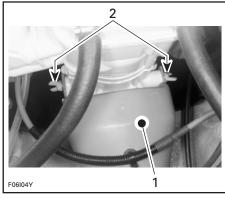
PTO Flywheel All Models Except XP Limited

Remove the wing nuts, washers and pull out PTO flywheel guard.



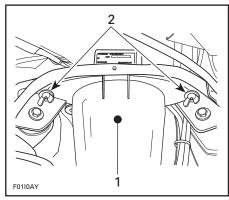
WARNING

Always remove safety lanyard cap from its receptacle to prevent accidental engine starting before removing the PTO flywheel guard.



GS, GTS AND GTI MODELS

- 1. Flywheel guard
- 2. Wing nuts



SPX, GSX LIMITED, GTX LIMITED, GSX RFI AND GTX RFI MODELS

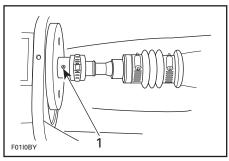
- 1. Flywheel guard
- 2. Wing nuts

Using a grease gun, carefully lubricate PTO flywheel at grease fitting until boot is just beginning to expand.



CAUTION

Immediately stop lubricating as soon as boot begins to expand.



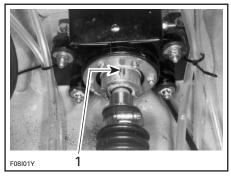
1. Grease PTO flywheel

Secure PTO flywheel guard.

Seal Carrier

XP Limited

Using a grease gun, carefully lubricate seal carrier of mid bearing until grease is just coming out of seal.



1. Grease seal carrier of mid bearing

Anticorrosion Protection

Throttle/Choke Cables

Lubricate the throttle and choke cables with BOMBARDIER LUBE lubricant every 25 hours (or every 10 hours in salt water use).

Electrical Connections

As necessary, apply anticorrosion product such as dielectric grease on battery posts and all exposed cable connectors.



CAUTION

Do not lubricate connectors of the Multi-Purpose Electronic Module.

Additional Lubrication

BOMBARDIER LUBE lubricant will help to prevent corrosion and keep proper operation of moving mechanisms.

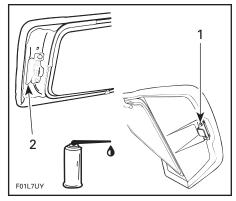
Lubrication of the following items should be performed every 50 hours in fresh water use but every 10 hours in salt water use.

Choke Lever

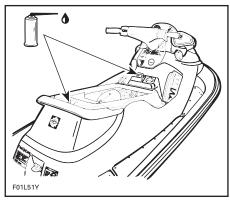
Fully pull choke lever and lubricate the metallic portion.

Seat Opening Mechanism, Tab, Hook and Lock Pin

All Models Except XP Limited



- 1. Front tab
- 2. Rear mechanism

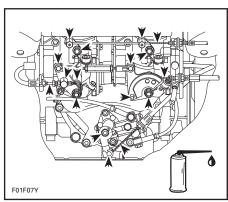


TYPICAL

Carburetor and Oil Injection Pump

Lubricate springs, shafts and exposed portion of cables.

NOTE: Grease carburetor linkage with synthetic grease (twin carbs).



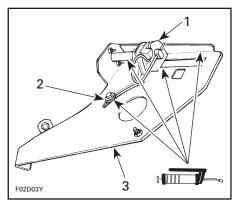
TYPICAL

Reverse System

GTS Model

Lubricate support plate sliding area of sliding block and triangular lever with synthetic grease.

Also lubricate sliding washer and shift lever stem.



- 1. Slidina block
- Sliding washer
 Support plate

Periodic Inspection

Routine maintenance is necessary for all mechanized products. A periodic inspection contributes to the product's life span.

The following maintenance chart gives guidelines for regular watercraft servicing scheduled to be performed by you and/or by an authorized Sea-Doo dealer. The schedule can be adjusted according to operating conditions and use.

IMPORTANT: Schedule for watercraft rental operations or higher number of hour use, will require greater frequency of inspection and maintenance.

Periodic Inspection Chart

DESCRIPTION		FREQUENCY				
		every 25 hours	every 50 hours	every 100 hours or seasonally	To be performed by	
Lubrication/corrosion protection	1		>		OPERATOR	
Engine ignition timing				>	DEALER	
Spark plug replacement			~		DEALER	
Fuel injector cleaning (RFI)				>	DEALER	
Fuel injector sensors verification (RFI)				~	DEALER	
Throttle/choke cables, inspection/lubrication	1	~			OPERATOR	
Carburetor adjustment including choke/throttle cable adjustments				~	DEALER	
Oil injection pump adjustment				~	DEALER	
Fuel filter and oil filter inspection		~			DEALER	
Fuel filter and oil filter replacement				~	DEALER	
Fuel tank straps	~				OPERATOR	
Oil tank straps	~				OPERATOR	
Engine head bolts, retorque				V	DEALER	
Engine counterbalance shaft oil level (if applicable)				~	DEALER	
Steering system			~		DEALER	
Reverse system/reverse cable adjustment (if applicable)				V	DEALER	
Variable Trim System (if applicable)			~		DEALER	
Fastener tightening (flame arrester, carburetor(s), engine mount, exhaust system, etc.)			~		DEALER	
Muffler, battery and reservoir fastening devices			~		OPERATOR	
Fuel lines, check-valve and fuel system pressurization	~	~	'	>	DEALER	
Fuel vent line pressure relief valve inspection		~			DEALER	
Inspect/clean engine drain tube	1	~			DEALER	
Water tank trap drains inspection (GTS model)			'		OPERATOR	
Battery condition			~		DEALER	
Electrical connections (battery, starter, etc.)		~			DEALER	
Monitoring beeper			'		DEALER	
Jet pump reservoir oil level/oil condition		~		Replace	DEALER	
Jet pump cover pusher inspection				~	DEALER	
Impeller condition and impeller/wear ring clearance			v 2		DEALER	
Drive shaft boot and spline condition (if applicable)			v 2		DEALER	
PTO flywheel and seal carrier lubrication (if applicable)	~				OPERATOR	
Water intake grate condition			v 2		OPERATOR	
Hull condition				>	OPERATOR	
Cooling system flushing		√ 3			OPERATOR	

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

- ① Every 10 hours in salt water use.
- ② These items have to be initially checked after 25 hours. Thereafter, servicing to be made as specified in this chart.
- 3 Daily flushing in salt water or foul water use.

Throttle and Choke Cable Inspection

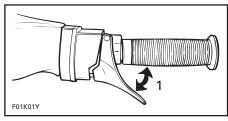
Throttle Cable

Depress and release the throttle lever ONCE. It must operate smoothly and return to its initial position without any hesitation. Refer to an authorized Sea-Doo dealer if necessary.



WARNING

If throttle lever does not automatically return, do not operate watercraft and see your Sea-Doo dealer.



1. Must move freely

Choke Cable Inspection

All Models except GSX RFI and GTX RFI

Ensure it operates smoothly and without any hesitation from fully open to fully closed. When the choke lever is fully pulled, choke must be fully applied. Refer to an authorized Sea-Doo dealer if necessary.

Carburetor Adjustment

All Models Except GSX RFI and GTX RFI

Carburetor adjustment is very important to allow good engine operation and therefore watercraft performance. Carburetor adjustment requires technical knowledge and experience to have the correct mixture supplied to the engine. This critical adjustment must be performed by an authorized Sea-Doo dealer once a year or more often if necessary.



CAUTION

Serious engine damage can occur with improper carburetor adjustment.

Fuel and Oil Filters

These filters should be replaced annually by an authorized Sea-Doo dealer. Fuel system pressurization should be conducted at the same time.



CAUTION

An obstructed oil filter will cause oil starvation resulting in serious engine damage.

Steering Alignment

When the handlebar is aimed in straight ahead position, the jet pump nozzle should be in the same direction allowing the watercraft to run in a straight line.

Refer to an authorized Sea-Doo dealer if an adjustment is necessary.



WARNING

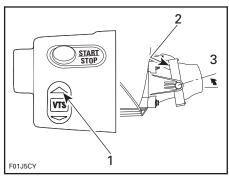
Ensure the handlebar/jet pump nozzle operate freely from side to side and are not stressing the steering cable and/or bracket.

Steering system should be inspected every 50 hours by an authorized Sea-Doo dealer.

VTS Adjustment

SPX, GSX Limited, GSX RFI and XP Limited

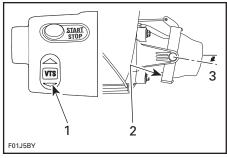
Push on arrow pointing upward on VTS button until the VTS stops. The nozzle should be up without interfering with the venturi.



TYPICAL

- 1. Push on arrow pointing upward on VTS button
- 2. No interference
- 3. Nozzle up

Push on arrow pointing downward on VTS button until VTS stops. The nozzle must be down and it must not interfere with the venturi.



- 1. Push on arrow pointing downward on VTS button
- No interference
- 3. Nozzle down

If VTS needs to be readjusted, refer to an authorized Sea-Doo dealer.



CAUTION

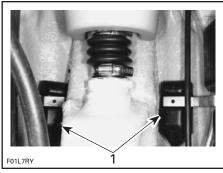
Trim ring and/or nozzle must not interfere at any position.

Vacuum Bailer Pick-Ups

They are located each side of the drive shaft tunnel.

Two pick-ups use a low pressure area in the jet pump to siphon the water out of the bilge when the watercraft in moving forward.

Inspect each pick-up screen for obstructions, clean as necessary.

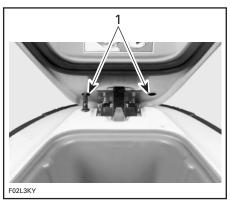


TYPICAL

1. Vacuum bailer pick-ups

Water Tank Trap Drains GTS Model

Open storage cover and check for possible obstructions at drain outlets.



1. Outlets

Fuses



WARNING

If wires or connections are frayed, squeezed or broken, see an authorized Sea-Doo dealer immediately.

SPX Model

The electrical system is protected with 4 fuses.

Two 15 A fuses protect the charging system. One fuse is mounted on the MPEM located in the front electrical box and the other one is in the rear electrical box. If the battery is regularly discharged, check fuses.

A 5 A fuse protects the MPEM, accessories and controls. The fuse is mounted on the MPFM located in the front electrical box. If the starter does not operate, check condition of this fuse.

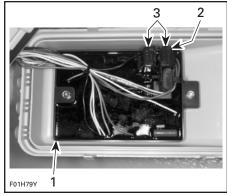
A 7.5 A fuse protects the variable trim system (VTS). The fuse is located in the rear electrical box.

To access fuses in the front electrical box, open storage compartment cover and remove basket.

Unplug connectors of the front electrical box.

Unclip the electrical box from its seat and remove it.

Open the electrical box.



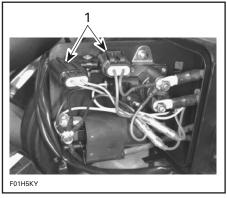
FRONT ELECTRICAL BOX OPENED

- 1 MPFM
- Spare fuse holder
 Fuse caps

Remove fuse caps to check fuse condition.

To access fuses in the rear electrical box, remove seat and vent tube support.

Unclip cover of rear electrical box and move cover beside box.



REAR ELECTRICAL BOX OPENED

1. Fuse holders

Unclip and pull out fuse connector to check fuse condition.

GTS Model

The electrical system is protected with 2 fuses.

A 15 A fuse protects the MPEM. If the battery is regularly discharged, check fuse condition.

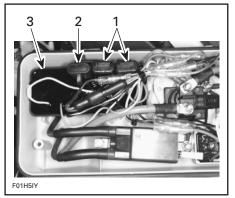
A 5 A fuse protects the starting system, accessories and controls. If starter does not operate, check fuse condition.

Fuses are located in the electrical box, mounted on the MPEM.

To access fuses, unclip and move away electrical box from its seat.

Open the electrical box.

Remove fuse caps.



- 1. Fuse caps
- 2. Spare fuse holder
- 3. MPEM

If defective, replace the fuse by one of the same rating. Make sure to properly close the fuse cap.

Properly close the electrical box cover making sure its seal is well positioned.

GSX RFI and GTX RFI Models

The electrical system is protected with 6 fuses.

Three fuses are located on the Multi-Purpose Electronic Module (MPEM) and the other three fuses are in the rear electrical box.

Two fuses protect the charging system. If the battery is regularly discharged, check the 15 A fuse on the MPEM and the 20 A fuse in the rear electrical box.

A 5 A fuse protects the power supply of the MPEM. If the starter does not operate, check the 5 A fuse on the MPEM.

The second 20 A fuse in the rear electrical box protects the power supply of the Electronic Control Unit (ECU).

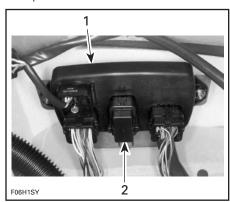
The 10 A fuse on the MPEM protects the fuel pump. If the engine does not start, check this fuse.

The 1 A fuse in the rear electrical box protects the info center.

To access fuses on the Multi-Purpose Electronic Module, open storage compartment cover and remove basket.

Locate MPEM on the left side of watercraft.

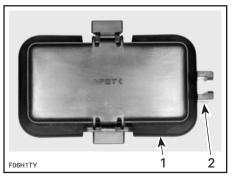
Unclip the fuse cover from the MPEM.



TYPICAL

- 1. MPFM
- 2. Fuse cover

Use the tabs of the fuse cover to remove and reinstall fuses.



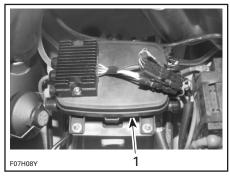
- Fuse cover
- 2. Fuse tabs

NOTE: There are 3 spare fuses on the MPEM.

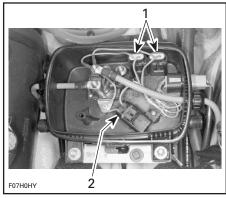
To access the 20 A fuses in the rear electrical box, remove seats.

Remove basket.

Unclip and remove cover of the rear electrical box.



1. Rear electrical box



REAR ELECTRICAL BOX OPENED

- 1. Fuse holders (20 A)
- 2. Fuse holder (1 A)

Unclip and pull out fuse holders to check fuse condition.

All Models Except SPX and GTS

Two 15 A fuses protect the charging system. One fuse is mounted on the MPEM located in the front of the watercraft and the other one is in the electrical box. If the battery is regularly discharged, check fuses.

A 5 A fuse protects the MPEM, accessories and controls. The fuse is mounted on the MPEM located in the front of the watercraft. If the starter does not operate, check condition of this fuse.

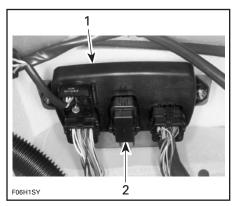
A 7.5 A fuse protects the variable trim system (if applicable). The fuse is mounted on the MPEM.

On the XP Limited, a 3 A fuse located in the electrical box protects the bilge pump.

To access fuses on the MPEM, open storage compartment cover (engine cover for the XP Limited) and remove storage basket.

Locate MPEM on the left side of watercraft.

Remove fuse cover from the MPEM.



TYPICAL

- 1. MPEM
- 2. Fuse cover

Use the tabs of the fuse cover to remove and reinstall fuses.



- 1. Fuse cover
- 2. Fuse tabs

To access fuse in the electrical box, proceed as follows:

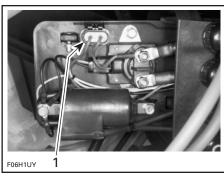
Open the engine cover and remove storage basket (XP Limited).

Remove seat (except XP Limited).

Remove vent tube support (GS and GSX Limited).

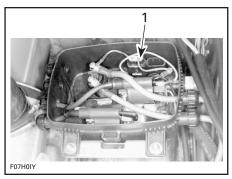
Locate the electrical box.

Unclip and remove cover of the electrical box.



GS AND GTI MODELS

1. Fuse holder



GSX LIMITED, GTX LIMITED AND XP LIMITED

1. Fuse holder

All Models

If defective, replace the fuse by one of the same rating.



Do not use a higher rated fuse as this can cause severe damage. Refer to SPECIFICATIONS section for recommended fuse rating. If a fuse is regularly burnt, refer to an authorized dealer.



WARNING

If any water is found in the electrical box(es), immediately refer to an authorized Sea-Doo dealer before operating the watercraft.

General Inspection and Care

Inspection

Check engine compartment for any damage and fuel/oil injection systems for leaks. Ensure all hose clamps are properly secured and no hose is cracked, kinked or presenting any other damage.



WARNING

If any gasoline leak or odor is found, do not start the engine. Have the watercraft serviced by an authorized Sea-Doo dealer immediately.

Inspect muffler, battery and fuel/oil tank fastening devices. Check electrical connections for corrosion and tightness.

Inspect hull and jet pump water intake grate for damage. Replace or have damaged parts repaired. It is recommended that an authorized Sea-doo dealer annually inspect the hull condition.

Care

Twice a year, the bilge should be cleaned with hot water and detergent or bilge cleaner to remove any possible fuel/oil/electrolyte deposits and mildew.

Occasionally, wash the body with water and soap (only use mild detergent). Remove any marine organisms from engine and/or hull. Apply non-abrasive wax such as silicone wax.



CAUTION

Never clean apparent fiberglass and plastic parts with strong detergent, degreasing agent, paint thinner, acetone, etc.

TRANSPORTATION, STORAGE AND PRE-SEASON PREPARATION

Transportation



WARNING

Always turn the fuel valve to OFF position when transporting or docking the watercraft.

Tie the watercraft to both bow and stern (front/rear) eyelets so that it is firmly retained on the trailer. Use additional tie-downs if necessary.



CAUTION

Do not route ropes or tie-downs over the seat as they could produce permanent damage. Wrap ropes or tie-downs with rags or similar protectors where they can touch the watercraft body.

All Models Except XP Limited

Ensure seat and storage cover are properly latched.

XP Limited

Ensure engine cover is properly latched.

All Models

A SEA-DOO cover should protect the watercraft, particularly before driving on dirt roads, to prevent dirt entry through the air intake opening(s).

Observe trailering safety precautions.

Storage

It is recommended that the watercraft be serviced by an authorized Sea-Doo dealer for storage but the following operations can be performed by you with a minimum of tools.



CAUTION

Do not run the engine during the storage period.

Engine Draining

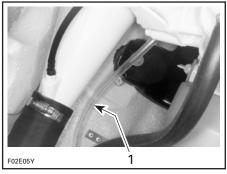
All Models Except GSX RFI and GTX RFI

Check engine drain hose (lowest hose of engine). Make sure there is no sand or other particles in it and that it is not obstructed so that water can leave the engine. Clean hose and fitting as necessary.



CAUTION

Water in engine drain hose must be free to flow out, otherwise water could be trapped in engine. Should water freeze in engine, severe damage will occur. Check engine drain hose for obstructions.



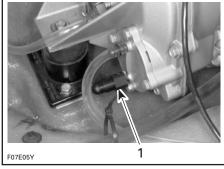
TYPICAL

1. Engine drain hose

GSX RFI and GTX RFI Models

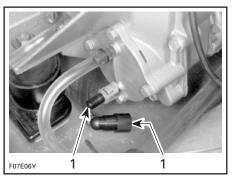
Disconnect the water supply hose used to cool the magneto. It features a quick connect fitting. Press both tabs and pull fitting in order to disconnect hose.

This hose is located at the bottom of the magneto cover beside the engine support.



1. Disconnect this hose

Water should flow out of the fitting (magneto cooling circuit) and hose (crankcase heat exchanger).



 Make sure water flows out of fitting and hose

Watercraft Rinsing

Thoroughly rinse the watercraft hull, bilge, engine compartment, with fresh water.

Propulsion System

Lubricant in jet pump reservoir should be drained and reservoir cleaned. Refill with SEA-DOO synthetic polyolester oil (75W90 GL5 type C gear lube). Refer to an authorized dealer for this operation.



CAUTION

Use only SEA-DOO jet pump oil or equivalent synthetic gear oil, otherwise component service life could be reduced. Do not mix oil brands or types.

Grease lubrication point(s) of propulsion system as explained in MAINTE-NANCE section.

Fuel System

SEA-DOO fuel stabilizer (or equivalent), can be added in fuel tank to prevent fuel deterioration and carburetor gumming. Follow manufacturer's instructions for proper use.

▼ CAUTION

Fuel stabilizer should be added prior to engine lubrication to ensure carburetor protection against varnish deposits.



WARNING

Fuel is flammable and explosive under certain conditions. Always work in a well ventilated area. Always wipe off any fuel spillage from the watercraft. Always turn the fuel valve to OFF position when storing the watercraft.

Cooling System Flushing and Engine Internal Lubrication

Refer to procedure in POST-OPERATION CARE.

Battery

Contact your authorized Sea-Doo dealer or refer to the appropriate *Shop Manual* for proper storage procedure.

Anticorrosion Treatment

Wipe off any residual water in the engine compartment.

Spray BOMBARDIER LUBE lubricant over metallic components in engine compartment.

Lubricate the throttle cable with BOM-BARDIER I UBE lubricant.

The front seat should be partially left opened during storage. This will avoid engine compartment condensation and possible corrosion.

Additional Recommended Protection

In cool regions (where freezing point may be encountered), cooling system should be filled with an equal part of water and antifreeze solution.



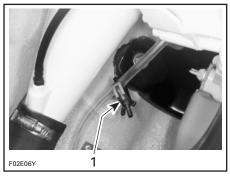
CAUTION

During winter storage in cold climates (where freezing may occur), always add antifreeze and water solution to cooling system. Mix in equal parts.

Always use ethylene glycol antifreeze containing corrosion inhibitors specifically recommended for aluminum engines.

SPX and GTS Models

Install a hose pincher to engine drain hose near the PTO flywheel guard.

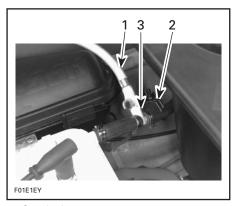


TYPICAL

1. Hose pincher installed on engine drain hose

Install coupler hose to fitting spigot.

Install a hose pincher to engine water outlet hose (beside fitting spigot).



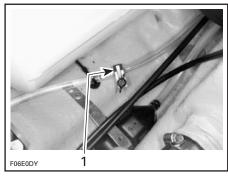
- 1. Coupler hose
- 2. Hose pincher
- 3. Fitting spigot

Pour the antifreeze slowly mixed with water in coupler hose until the colored solution appears in the engine drain hose.

Remove hose pincher.

All Models Except SPX and GTS

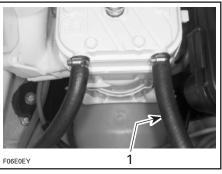
Install a hose pincher to engine drain hose.



TYPICAL

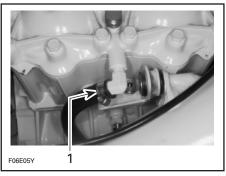
1. Hose pincher installed on engine drain hose

Disconnect engine water outlet hose.



717 AND 787 ENGINES

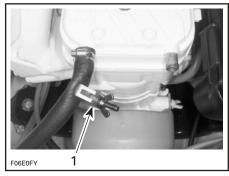
1. Disconnect engine water outlet hose



947 ENGINE

1. Disconnect engine water inlet hose

Install a hose pincher to engine water inlet hose (except the 947 engine).



717 AND 787 ENGINES

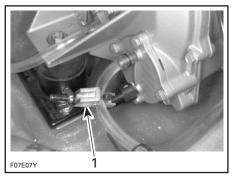
Hose pincher installed on the engine water inlet hose

Temporarily install a short piece of hose to engine water outlet at cylinder head.

Insert a funnel into hose and pour antifreeze mixed with water in engine until the colored solution appears in the engine drain hose.

GTX RFI and GSX RFI Models

Install a hose pincher to water return hose of the magneto cooling circuit.



1. Hose pincher to water return hose

Insert a funnel into hose and pour antifreeze mixed with water in engine until the colored solution appears in the water return hose of the magneto cooling circuit.

Remove temporary hose and reconnect engine water outlet hose.

Remove hose pinchers.

All Models

Most of the antifreeze will drain out when removing the hose pincher(s). Use a container to recover it. DISPOSE OF ANTIFREEZE AS PER YOUR LOCAL LAWS AND REGULATIONS.

NOTE: Although antifreeze will mainly drain out, the antifreeze has mixed with the water that was possibly trapped in the cylinder water jackets and thus preventing freezing problems.

On GSX RFI AND GTX RFI models, the antifreeze will mix with water trapped in the crankcase heat exchanger and in the magneto cooling circuit.

At pre-season preparation, drain the remaining antifreeze from cooling system prior using the watercraft.

The following steps should be performed to provide the watercraft enhanced protection.

Lubricate the throttle cable with BOM-BARDIER LUBE lubricant.

Clean the bilge with hot water and detergent or with bilge cleaner. Rinse thoroughly. Lift front end of watercraft to completely drain bilge. If any repairs are needed to body or to the hull contact your dealer. For paint touch up to mechanical parts use Bombardier spray paint. For small gelcoat repairs, a Bombardier repair kit is available. See ACCESSORIES AND SERVICE PRODUCTS section. Replace damaged labels/decals.

NOTE: Bilge cleaning should be done prior to anticorrosion treatment.

Wash the body with soap and water solution (only use mild detergent). Rinse thoroughly with fresh water. Remove marine organisms from the hull. Apply a good quality marine wax.



Never clean apparent fiberglass and plastic parts with strong detergent, degreasing agent, paint thinner, acetone, etc.

If the watercraft is to be stored outside, cover it with an opaque tarpaulin to prevent sun rays and grime from affecting the plastic components, watercraft finish as well as preventing dust accumulation.



The watercraft must never be left in water for storage. Never leave the watercraft stored in direct sunlight. The seat should be partially left opened during storage (rear access cover for the XP Limited). This will avoid engine compartment condensation and possible corrosion.

Pre-Season Preparation

Use the following chart.

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

Pre-Season Preparation Chart

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

OPERATIONS	To be performed by
Lubrication/corrosion protection	OPERATOR
Battery condition/charging and reinstallation	DEALER
Battery, starter connections and routing ②	DEALER
Spark plug replacement ①	OPERATOR
Jet pump oil inspection	DEALER
Propulsion system inspection	DEALER
Oil filter replacement	DEALER
Fuel tank straps	OPERATOR
Oil tank straps	OPERATOR
Oil injection tank filling	OPERATOR
Flame arrester inspection @	DEALER
Fuel filter replacement	DEALER
Fuel line condition ②	DEALER
Filler neck, fuel tank and fuel cap condition ②	DEALER
Check valves, fasteners, fuel system pressurization @	DEALER
Throttle ② and choke cable inspection/adjustment	DEALER
Oil injection pump adjustment and bleeding	DEALER
Engine ignition timing	DEALER
Fuel injection sensors verification (RFI)	DEALER
Carburetor adjustment	DEALER
Steering system adjustment/inspection ②	DEALER
Reverse cable adjustment (if applicable)	DEALER
Inspection of bailer pick-ups	DEALER
Inspection of cooling system hoses	DEALER
Monitoring beeper	DEALER
Digitally encoded security system	DEALER

① Before installing new spark plugs, it is suggested to burn the excess BOM-BARDIER LUBE lubricant by starting the engine using the old spark plugs.

² Safety item covered in the annual safety inspection.

TROUBLESHOOTING

All Models Except GTX RFI and GSX RFI

The following chart is provided to help in diagnosing the probable source of simple troubles. You may be able to solve many of these problems rather quickly, but others may require the skills of a mechanical technician. In such cases, consult an authorized Sea-Doo dealer for servicing.

Monitoring Beeper Coded Signals

CODED SIGNALS	POSSIBLE CAUSE	REMEDY
2 short beeps (while installing safety lanyard on switch).	Confirms safety lanyard signal operation.	Engine can be started.
1 long beep (while installing safety lanyard on craft switch or when	 Safety lanyard on switch for more than 10 minutes without starting engine. 	Remove and reinstall safety lanyard on switch.
pressing start/stop button).	Bad connection.	Reinstall safety lanyard cap correctly over switch.
	Wrong safety lanyard.	Use a safety lanyard that has been programmed for the craft.
	Defective safety lanyard.	Use another programmed safety lanyard.
	 Salt water in safety lanyard cap. 	Clean safety lanyard cap to remove salt water.
	 Improper operation of MPEM or defective wiring harness. 	Refer to an authorized dealer.
8 short beeps.	Defective MPEM.	Refer to an authorized dealer.
Continuously beeps.	• Engine overheats.	See ENGINE OVERHEATING.

Engine Will Not Start

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
Engine does not turn over.	 Safety lanyard removed. 	Install cap over switch.
	Burnt fuse.	Check wiring then replace fuse.
	 Discharged battery. 	Refer to an authorized dealer.
	 Battery connections, corroded or loose. 	Refer to an authorized dealer.
	Water flooded engine.	Refer to Submerged Watercraft in SPECIAL PROCEDURES.
Engine turns slowly.	 Discharged or weak battery. 	Refer to an authorized dealer.
Engine turns normally.	Close fuel valve.	Turn fuel valve to ON position.
	 Fuel tank empty or water- contaminated. 	Refill. Siphon and fill with fresh fuel.
	 Fuel filter clogged or water-contaminated. 	Clean, check fuel tank for water.
	 Fouled/defective spark plugs. 	Replace.
	Misuse of choke.	Use only with cold engine. Replace spark plugs.
	 Fuel flooded engine. 	Replace spark plugs.

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Engine Misfires, Runs Irregularly

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
Weak spark.	 Fouled/defective/worn spark plugs. 	Replace.
	 Faulty rev limiter. 	Refer to an authorized dealer.
	 Too much oil supplied to engine. 	Improper oil pump adjustment, refer to an authorized dealer.
Lean fuel mixture.	 Fuel: Level too low, stale or water-contaminated. 	Siphon and/or refill.
	 Fuel filter, clogged or water-contaminated. 	Refer to an authorized dealer.
	 Fuel valve partially open. 	Turn fuel valve to ON position.
Rich fuel mixture (high fuel consumption).	 Flame arrester dirty/clogged. 	Clean or replace.
	 Partially closed choke. 	Refer to an authorized dealer.

Engine Overheats

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
Monitoring beeper sounds continuously.	 Clogged jet pump water intake. 	Clean.
	Clogged coolant system.	Flush cooling system with coupler hose.

Engine Continually Backfires

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
Weak spark.	 Fouled/defective/worn spark plugs. 	Replace.
Overheated engine.	See ENGINE OVERHEATS.Faulty rev limiter.	Refer to an authorized dealer.

Engine Pinging or Knocking

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
	 Poor quality gasoline/low octane. 	Use well known quality and recommended gasoline.
	 Spark plug heat range too high. 	Use recommended spark plugs.
	 Ignition timing. 	Refer to an authorized dealer.

Engine Lacks Acceleration or Power

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
	 Weak spark/incorrect fuel mixture. 	Refer to ENGINE MISFIRES, RUNS IRREGULARLY.
	 Water in fuel or injection oil. 	Siphon and replace.
Overheated engine.	• See ENGINE OVERHEATS.	

Watercraft Can Not Reach Top Speed

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
Cavitation.	 Jet pump water intake clogged. 	Clean.
	 Damaged impeller. 	Replace. Refer to an authorized dealer.

Abnormal Noise From Propulsion System

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
Cavitation.	 Weeds or debris jammed around impeller. 	Clean and check for damage.
	 Damaged impeller shaft or drive shaft. 	Refer to an authorized dealer.

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GTX RFI and GSX RFI Models

Monitoring Beeper Coded Signals

CODED SIGNALS	POSSIBLE CAUSE	REMEDY
2 short beeps (while installing safety lanyard on switch).	Confirms safety lanyard signal operation.	Engine can be started.
1 long beep (while installing safety lanyard on craft switch or when	 Safety lanyard on switch for more than 10 minutes without starting engine. 	Remove and reinstall safety lanyard on switch.
pressing start/stop button).	Bad connection.	Reinstall safety lanyard cap correctly over switch.
	Wrong safety lanyard.	Use a safety lanyard that has been programmed for the craft.
	Defective safety lanyard.	Use another programmed safety lanyard.
	• Salt water in safety lanyard cap.	Clean safety lanyard cap to remove salt water.
	Improper operation of MPEM or defective wiring harness.	Refer to an authorized dealer.
4 short beeps.	Discharged battery.	Refer to an authorized dealer.
	 No communication between ECU and MPEM. 	Refer to an authorized dealer.
A 2 seconds beep every 60 seconds intervals.	• Fuel tank level is low.	Refill.
8 short beeps.	Defective MPEM.	Refer to an authorized dealer.
Continuously beeps.	• Engine overheats.	See ENGINE OVERHEATING.

Engine Will Not Start

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
Engine does not turn over.	 Safety lanyard removed. 	Install cap over switch.
	Burnt fuse.	Check wiring then replace fuse.
	 Discharged battery. 	Refer to an authorized dealer.
	 Battery connections, corroded or loose. 	Refer to an authorized dealer.
	Water flooded engine.	Refer to Submerged Watercraft in SPECIAL PROCEDURES.
Engine turns slowly.	 Discharged or weak battery. 	Refer to an authorized dealer.
Engine turns normally.	Fuel flooded engine.	Refer to Flooded Engine in SPECIAL PROCEDURES.
	 Fuel tank empty or water- contaminated. 	Refill. Siphon and fill with fresh fuel.
	 Burnt fuel pump fuse 	Check wiring then replace fuse.
	 Fouled/defective spark plugs. 	Replace.
	• Electrical problem.	Refer to an authorized dealer.

Engine Misfires, Runs Irregularly

OTHER OBSERVATION	POSSIBLE CAUSE REMEDY	
Weak spark.	 Fouled/defective/worn spark plugs. 	Replace.
	 Faulty rev limiter. 	Refer to an authorized dealer.
Lean fuel mixture.	 Fuel: Level too low, stale or water-contaminated. 	Siphon and/or refill.
	 Clogged fuel injectors. 	Refer to an authorized dealer.
	 Defective sensor or ECU. 	Refer to an authorized dealer.
Rich fuel mixture (high fuel consumption).	 Flame arrester dirty/clogged. 	Clean or replace.
	 Defective sensor or ECU. 	Refer to an authorized dealer.

Engine Overheats

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
Monitoring beeper sounds continuously.	 Clogged jet pump water intake. 	Clean.
	 Clogged coolant system. 	Flush cooling system.

Engine Continually Backfires

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
Weak spark.	Fouled/defective/worn spark plugs. Replace.	
Overheated engine.	• See ENGINE OVERHEATS.	Refer to an authorized dealer.

Engine Pinging or Knocking

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
	 Poor quality gasoline/low octane. 	Use well known quality and recommended gasoline.
	 Spark plug heat range too high. 	Use recommended spark plugs.
	 Ignition timing. 	Refer to an authorized dealer.

Engine Lacks Acceleration or Power

OTHER OBSERVATION	POSSIBLE CAUSE	REMEDY
	 Clogged fuel injectors. 	Refer to an authorized dealer.
	 Low fuel pressure. 	Refer to an authorized dealer.
	• Stick RAVE valves.	Refer to an authorized dealer.
Overheated engine.	• See ENGINE OVERHEATS.	

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SPECIFICATIONS

ENGINE		SPX (5828/5636)
Engine type		Rotax 787, 2-stroke
Induction type		Rotary valve
Exhaust system		Water cooled/water injected with regulator
Exhaust valve		RAVE
Lubrication	Туре	Oil injection
Lubrication	Oil type	BOMBARDIER-ROTAX injection oil
Number of cylinders	3	2
Displacement		781.6 cm ³ (47.7 in ³)
Rev limiter setting		7200 RPM ± 50
COOLING		
Туре		Open circuit. Direct flow from propulsion unit
ELECTRICAL		
Magneto generator	output	180 W @ 6000 RPM
Ignition system type		Digital DC-CDI
	Make and type	NGK, BR8ES
Spark plug	Gap	0.5 - 0.6 mm (.020024 in)
Starting system	·	Electric starter
Battery		12 V, 19 A∙h
	MPEM	5 A
Fuse	Electrical system	2 x 15 A
	VTS system	7.5 A
CARBURETION		•
Fuel type		Regular unleaded gasoline
Carburetor		BN 40i (diaphragm). Fuel accelerator pump. Quantity: 2

N.A.: Not Applicable.

PROPULSION		SPX (5828/5636)	
Propulsion system		Bombardier Formula pump	
Jet pump type		Axial flow, single stage	
Transmission		Direct drive	
Jet pump oil type		SEA-DOO synthetic polyolester oil SAE 75W90 GL5	
Pivoting angle of di	rection (nozzle)	~26°	
Minimum required level for jet pump	water	90 cm (3 ft)	
DIMENSIONS		•	
Number of passengers ①		2	
Overall length		254 cm (100 in)	
Overall width		105 cm (41.5 in)	
Overall height		92 cm (36.2 in)	
Weight		197 kg (434 lb)	
Load limit (passengers + luggage)		159 kg (351 lb)	
CAPACITIES		•	
Fuel tank		34 L (9 U.S. gal)	
Oil injection tank		4.5 L (1.2 U.S. gal)	
Impeller shaft reservoir	Capacity	80 mL (2.7 U.S. oz)	
	Oil level	Up to plug	

① Refer to load limit.

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.

ENGINE		GS (5847)	GSX LIMITED (5849)	
Engine type		Rotax 717, 2-stroke	Rotax 947, 2-stroke	
Induction type		Rotary valve	Reed valve	
Exhaust syster	m	Water cooled/water injected	Water cooled/water injected with regulator	
Exhaust valve		N.A.	RAVE	
	Туре	Oil inj	ection	
Lubrication	Oil type	BOMBARDIER-ROTAX injection oil	XP-S synthetic injection oil	
Number of cyli	nders	2	2	
Displacement		718.2 cm ³ (43.81 in ³)	951.2 cm³ (58 in³)	
Rev limiter set	ting	7000 RPM ± 50	7200 RPM ± 50	
COOLING				
Туре		Open circuit. Direct flow from propulsion unit.		
ELECTRICAL				
Magneto generator output		160 W @ 6000 RPM	180 W @ 6000 RPM	
Ignition system	n type	Digital CDI	Digital DC-CDI	
	Make and type	NGK, BR8ES		
Spark plug	Gap	0.5 - 0.6 mm (.020024 in)		
Starting system	n	Electric starter	Electric starter with reduction gear	
Battery		12 V, 19 A∙h		
	MPEM	5 A		
Fuse Electrical system		2 x 15 A		
VTS system		N.A.	7.5 A	
CARBURETIO	N			
Fuel type		Regular unleaded gasoline		
Carburetor		BN 40i (diaphragm). Fuel accelerator pump. Quantity: 1	BN 46i (diaphragm). Fuel accelerator pump. Quantity: 2	

PROPULSION		GS (5847)	GSX LIMITED (5849)	
Propulsion syst	em	Bombardier	Formula pump	
Jet pump type		Axial flow,	single stage	
Transmission		Direc	ct drive	
Jet pump oil ty	ре	SEA-DOO synth SAE 75	SEA-DOO synthetic polyolester oil SAE 75W90 GL5	
Pivoting angle (nozzle)	of direction	~	23°	
Minimum requi level for jet pur		90 cr	m (3 ft)	
DIMENSIONS				
Number of passengers ①			2	
Overall length		267 cm	267 cm (105 in)	
Overall width		116 cm	116 cm (45.7 in)	
Overall height		94 cn	n (37 in)	
Weight		215 kg (474 lb)	241 kg (531 lb)	
Load limit (passengers + luggage)		159 kg	159 kg (351 lb)	
CAPACITIES				
Fuel tank		56.5 L (1	56.5 L (15 U.S. gal)	
Oil injection tank		6 L (1.6	U.S. gal)	
Impeller shaft	Capacity	100 mL (2.7 U.S. oz)	120 mL (4.0 U.S. oz)	
reservoir	Oil level	Up t	o plug	

① Refer to load limit.

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ENGINE		XP LIMITED (5869/5868)
Engine type		Rotax 947, 2-stroke
Induction type		Reed valve
Exhaust system		Water cooled/water injected with regulator
Exhaust valve		RAVE
	Туре	Oil injection
Lubrication	Oil type	XP-S synthetic injection oil
Number of cylinder	rs .	2
Displacement		951.2 cm³ (58 in³)
Rev limiter setting		7200 RPM ± 50
COOLING		
Туре		Open circuit. Direct flow from propulsion unit
ELECTRICAL		
Magneto generator	routput	180 W @ 6000 RPM
Ignition system type		Digital DC-CDI
	Make and type	NGK, BR8ES
Spark plug	Gap	0.5 - 0.6 mm (.020024 in)
Starting system	·	Electric starter with reduction gear
Battery		12 V, 19 A•h
	MPEM	5 A
Fuse	Electrical system	2 x 15 A
ruse	VTS system	7.5 A
	Bilge pump	3 A
CARBURETION		
Fuel type		Regular unleaded gasoline
Carburetor		BN 46i (diaphragm). Fuel accelerator pump. Quantity: 2

PROPULSION		XP LIMITED (5869/5868)
Propulsion system		Bombardier Formula pump
Jet pump type		Axial flow, single stage
Transmission		Direct drive/split FR and RR
Jet pump oil type		SEA-DOO synthetic polyolester oil SAE 75W90 GL5
Pivoting angle of d (nozzle)	lirection	~23°
Minimum required water level for jet pump		90 cm (3 ft)
DIMENSIONS		•
Number of passengers ①		2
Overall length		272 cm (107 in)
Overall width		111 cm (43.7 in)
Overall height		103 cm (40.6 in)
Weight		250 kg (551 lb)
Load limit (passengers + luggage)		159 kg (351 lb)
CAPACITIES		
Fuel tank		54 L (14 U.S. gal)
Oil injection tank		4 L (1.1 U.S. gal)
Impeller shaft reservoir	Capacity	120 mL (4.0 U.S. oz)
	Oil level	Up to plug

① Refer to load limit.

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ENGINE		GTS (5883)	
Engine type		Rotax 717, 2-stroke	
Induction type		Rotary valve	
Exhaust system		Water cooled/water injected	
	Туре	Oil injection	
Lubrication	Oil type	BOMBARDIER-ROTAX injection oil	
Number of cylind	ers	2	
Displacement		718.2 cm ³ (43.81 in ³)	
Rev limiter settin	g	7000 RPM ± 50	
COOLING			
Туре		Open circuit. Direct flow from propulsion unit	
ELECTRICAL			
Magneto generator output		160 W @ 6000 RPM	
Ignition system type		Digital CDI	
Spark plug	Make and type	NGK, BR8ES	
	Gap	0.5 - 0.6 mm (.020024 in)	
Starting system		Electric starter	
Battery		12 V, 19 A•h	
F	MPEM	5 A	
Fuse	Electrical system	15 A	
CARBURETION	•		
Fuel type		Regular unleaded gasoline	
Carburetor		BN 40i (diaphragm). Fuel accelerator pump. Quantity: 1	

PROPULSION		GTS (5883)		
Propulsion system	١	Bombardier Formula pump		
Jet pump type		Axial flow, single stage		
Transmission		Direct drive		
Jet pump oil type		SEA-DOO synthetic polyolester oil SAE 75W90 GL5		
Pivoting angle of o	direction (nozzle)	~26°		
Minimum required level for jet pump	d water	90 cm (3 ft)		
DIMENSIONS		•		
Number of passengers ①		3		
Overall length		302 cm (119 in)		
Overall width		119 cm (46.9 in)		
Overall height		95 cm (37.4 in)		
Weight		217 kg (478 lb)		
Load limit (passengers + luggage)		224 kg (494 lb)		
CAPACITIES				
Fuel tank		47 L (12 U.S. gal)		
Oil injection tank		4.5 L (1.2 U.S. gal)		
Impeller shaft reservoir	Capacity	80 mL (2.7 U.S. oz)		
	Oil level	Up to plug		

① Refer to load limit.

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.

ENGINE		GTI (5885/5884)	GTX LIMITED (5889/5888)	
Engine type		Rotax 717, 2-stroke	Rotax 947, 2-stroke	
Induction type		Rotary valve	Reed valve	
Exhaust systen	n	Water cooled/water injected	Water cooled/water injected with regulator	
Exhaust valve		N.A.	RAVE	
	Туре	Oil inj	ection	
Lubrication	Oil type	BOMBARDIER-ROTAX injection oil	XP-S synthetic injection oil	
Number of cylin	nders	2	2	
Displacement		718.2 cm ³ (43.81 in ³)	951.2 cm³ (58 in³)	
Rev limiter sett	ing	7000 RPM ± 50	7200 RPM ± 50	
COOLING				
Туре		Water cooled, total loss type. Direct flow from propulsion unit		
ELECTRICAL				
Magneto gener	ator output	160 W @ 6000 RPM	180 W @ 6000 RPM	
Ignition system	type	Digital CDI	Digital DC-CDI	
	Make and type	NGK, I	BR8ES	
Spark plug	Gap	0.5 - 0 (.020 -		
Starting system	١	Electric starter	Electric starter with reduction gear	
Battery		12 V, 19 A∙h		
	MPEM	5 A		
Fuse	Electrical system	2 x	15 A	
	VTS system	N.	A.	
CARBURETIO	V			
Fuel type		Regular unleaded gasoline		
Carburetor		BN 40i (diaphragm). Fuel accelerator pump. Quantity: 1 BN 46i (diaphragn Fuel accelerator pu Quantity: 2		

PROPULSION		GTI (5885/5884)	GTX LIMITED (5889/5888)			
Propulsion system		Bombardier F	Bombardier Formula pump			
Jet pump type		Axial flow,	single stage			
Transmission		Direc ⁻	t drive			
Jet pump oil ty	pe	SEA-DOO synthe SAE 75V	etic polyolester oil V90 GL5			
Pivoting angle (nozzle)	of direction	~2	23°			
Minimum required water level for jet pump		90 cm	n (3 ft)			
DIMENSIONS		•				
Number of passengers ①		;	3			
Overall length		316 cm	316 cm (124.4 in)			
Overall width		119 cm	119 cm (47 in)			
Overall height		94 cm	94 cm (37 in)			
Weight		266 kg (586 lb)	291 kg (641 lb)			
Load limit (passengers + luggage)		242 kg	242 kg (534 lb)			
CAPACITIES						
Fuel tank		56.5 L (15	56.5 L (15 U.S. gal)			
Oil injection tank		6 L (1.6	U.S. gal)			
Impeller shaft	Capacity	100 mL (2.7 U.S. oz)	120 mL (4.0 U.S. oz)			
reservoir	Oil level	Up to	plug			

① Refer to load limit.

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.

ENGINE		GTX RFI (5887/5886) GSX RFI (5637/5638)			
Engine type	Engine type		BOMBARDIER-ROTAX 787, 2-stroke		
Induction type	Induction type		Rotary valve		
Exhaust system		Water cooled/water in	njected with regulator		
Exhaust valve		Rotax Adjustable Var	iable Exhaust (RAVE)		
	Туре	Oil injection			
Lubrication	Oil type		P-S njection oil		
Number of cylinde	rs		2		
Displacement		781.6 cm ²	³ (47.7 in ³)		
Rev limiter setting		7100 (±	50) RPM		
COOLING SYSTE	М				
Туре		Open o Direct flow from	Open curcuit. Direct flow from propulsion unit		
ELECTRICAL SYS	TEM	•			
Magneto generato	Magneto generator output		6000 RPM		
Ignition system typ	Ignition system type		Digital inductive type		
Spark plug	Make and type	NGK, BR8ES			
Spark plug	Gap	0.7 mm	(.039 in)		
Starting system		Electric	starter		
Battery		12 V, 1	I9 A•h		
	MPEM	5 A			
Fuse	Electrical system) A (1) 15 A		
	Fuel pump	10 A			
Info center		1 A			
FUEL SYSTEM					
Fuel type		Regular unleaded gasoline			
Fuel injection		Rotax Fuel Injection, single throttle body (46 mm)			

PROPULSION		GTX RFI (5887/5886)	GSX RFI (5637/5638)		
Propulsion system		Bombardier F	Bombardier Formula pump		
Jet pump type		Axial flow,	single stage		
Transmission		Direc	t drive		
Impeller shaft re	servoir oil type	SEA-DOO jet p polyolester oil S	SEA-DOO jet pump synthetic polyolester oil SAE 75W90 GL5		
Pivoting angle of	direction (nozzle)	~ :	23°		
Minimum require level for jet pum		90 cn	90 cm (3 ft)		
DIMENSIONS		•			
Number of passengers ①		3	2		
Overall length		316 cm (124.4 in)	267 cm (105.1 in)		
Overall width		119 cm (47 in) 116 cm (45.7 in)			
Overall height		94 cm (37 in)			
Weight		293 kg (645 lb)	241 kg (531 lb)		
Load limit (passengers + luggage)		242 kg (534 lb)	159 kg (350 lb)		
CAPACITIES					
Fuel tank		56.5 L (15 U.S. gal)			
Impeller shaft	Capacity	100 mL (4.0 U.S. oz)			
reservoir	Oil level	Up to plug			
Oil injection reservoir		6 L (1.6 U.S. gal)			

① Refer to load limit.

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.

SI* METRIC INFORMATION

BASE UNITS				
DESCRIPTION		UNIT	SYMBOL	
length mass force liquid temperature pressure torque land velocity navigation velocity		meter kilogram newton liter Celsius kilopascal newton-meter kilometer per hour knot	m kg N L °C kPa N•m km/h kn	
	Р	REFIXES		
PREFIX	SYMBOL	MEANING	VALUE	
kilo centi milli micro	k c m µ	one thousandone hundredth ofone thousandth ofone millionth ofone millionth ofone	1000 0.01 0.001 0.000001	
	CONVER	SION FACTORS		
TO CONVERT		TO ①	MULTIPLY BY	
in		mm cm cm² cm³ m g kg N N N N N N N N N N N N N N N N N	25.4 2.54 6.45 16.39 0.3 28.35 0.45 4.4 0.11 1.36 12 6.89 0.96 28.41 1.2	
imp. gal		L MPH km/h Celsius Fahrenheit kW	4.55 29.57 3.79 1.15 1.61 (°F - 32) ÷ 1.8 (°C x 1.8) + 32	

^{*} The international system of units abbreviates SI in all languages.

NOTE: Conversion factors are rounded off to 2 decimals for easier use.

① To obtain the reverse sequence, divide by the given factor. Example: to convert millimeters to inches, divide by 25.4.

ABBREVIATIONS USED IN THIS MANUAL

	DESCRIPTION		DESCRIPTION
AC	Alternate Current	N/A	Not applicable
CDI	Capacitor discharge ignition	OPT	Optional
DC	Direct current	P/N	Part number
DESS	Digitally encoded security system	PFD	Personal flotation device
E.I.N.	Engine identification number	PTO	Power take off
ECU	Electronic control unit	RAVE	Rotax adjustable variable exhaust
HP	Horse power	RFI	Rotax fuel injection
LED	Light emitting diode	RPM	Revolution per minute
MAG	Magneto	STD	Standard
MPEM	Multi-purpose electronic module	VROI	Variable rate oil injection
MPH	Mile per hour	VTS	Variable trim system

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OTHER PUBLICATIONS AVAILABLE

PUBLICATION	P/N
Shop Manual	219 100 094
Sea-Doo Racing Handbook	219 000 094
Specification Booklet	219 100 100

WATERCRAFT MODEL No							
Purchase Date	WATERCRAFT MODEL No						
Purchase Date		I.I.N.)					
Warranty Expiry Date year month day To be completed by the dealer at the time of the sale		i.l.N.) _					
Warranty Expiry Date year month day To be completed by the dealer at the time of the sale							
Warranty Expiry Date year month day To be completed by the dealer at the time of the sale	Burchasa Data	Ì	ĵ į		1		
year month day To be completed by the dealer at the time of the sale	rurchase Date		month	day	l		
year month day To be completed by the dealer at the time of the sale	Waynanty Eyminy Data	I	ı	I	Ī		
	warranty Expiry Date	year	month	day			
DEALER IMPRINT AREA	To be completed by	the dea	ler at the	e time c	of the sale		
DEALER IMPRINT AREA							
	DEAL	ER IMPF	RINT ARE	A			

Please verify with your selling dealer to ensure your SEA-DOO watercraft has been registered with Bombardier.

CHANGE OF ADDRESS

If your address has changed, be sure to fill out and mail the card provided on this page.

Such notification is likewise necessary for your own safety even after expiration of the original warranty, since Bombardier will be in a position to contact you if correction to your watercraft becomes necessary.

NOTE: This card is strictly for change of address only.

CHANGE OF ADDRESS

			_
CHANGE OF ADDRESS 🔲			
WATERCRAFT IDENTIFICATION NUMBERS	Model Number	Hull Identification	Number (H.I.N.)
OLD ADDRESS	:		
		NAME	
	NO.	STREET	APT
	CITY	STATE/PROVINCE	ZIP/POSTAL CODE
NEW ADDRESS	:		
		NAME	
l I	NO.	STREET	APT
	CITY	STATE/PROVINCE	ZIP/POSTAL CODE

STOLEN UNITS

In the event that your watercraft is stolen, you should notify your area's distributor warranty department of such.

Please provide your name, address, phone number, Hull Identification Number and date it was stolen.

Bombardier will provide a list of stolen units to all watercraft dealers on a monthly basis to aid in recovery of such units to their owners.

<u>_Lo_</u>

STAMP

BOMBARDIER

RECREATIONAL PRODUCTS SEA-DOO WARRANTY VALCOURT, QUEBEC CANADA JOE 2L0



BOMBARDIERRECREATIONAL PRODUCTS





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