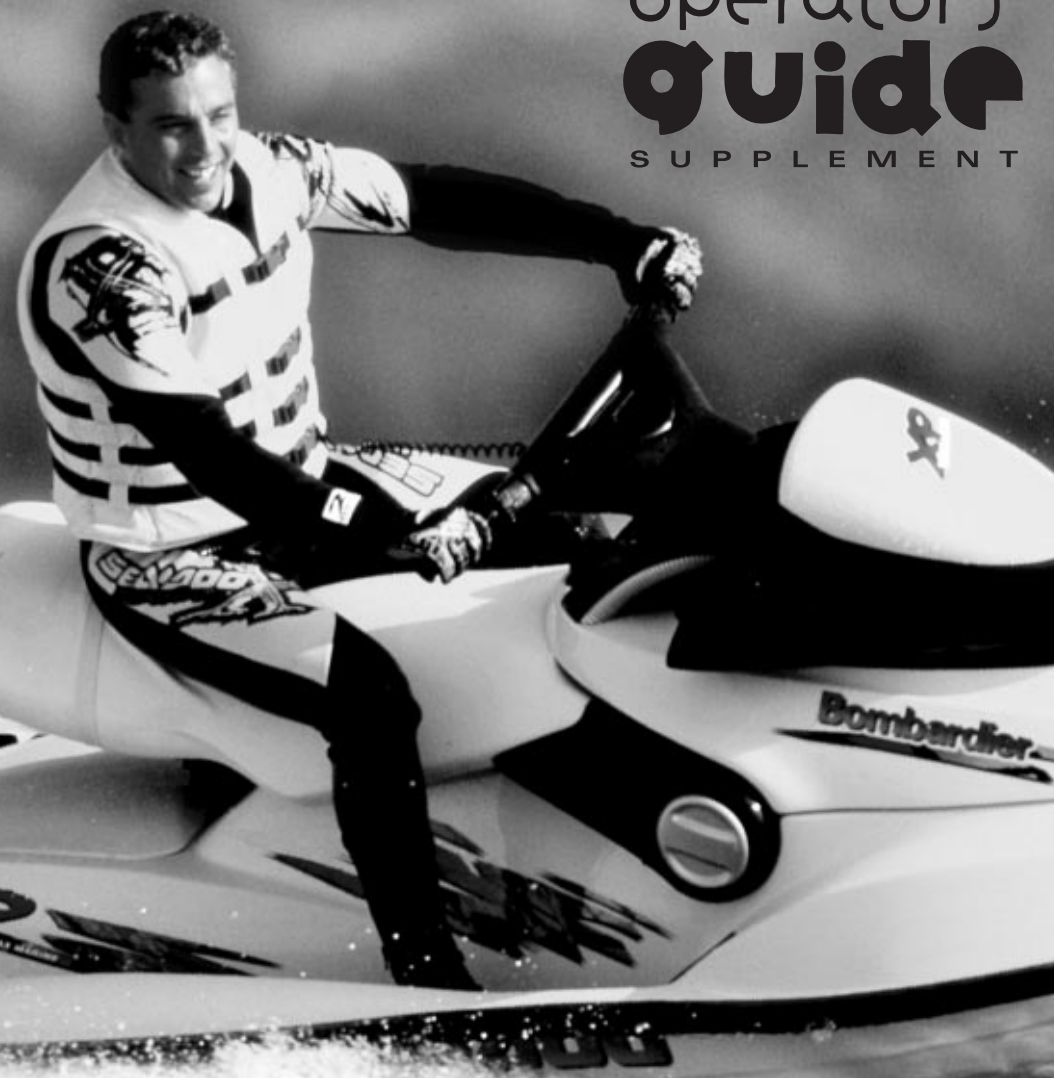


# SEA-DOO®

**GSX LIMITED** 5625

## operator's **guide**

S U P P L E M E N T



Use in conjunction with  
the 1997 Sea-Doo Operator's  
Guide P/N 219 000 059

# 1998

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## **CAUTION**

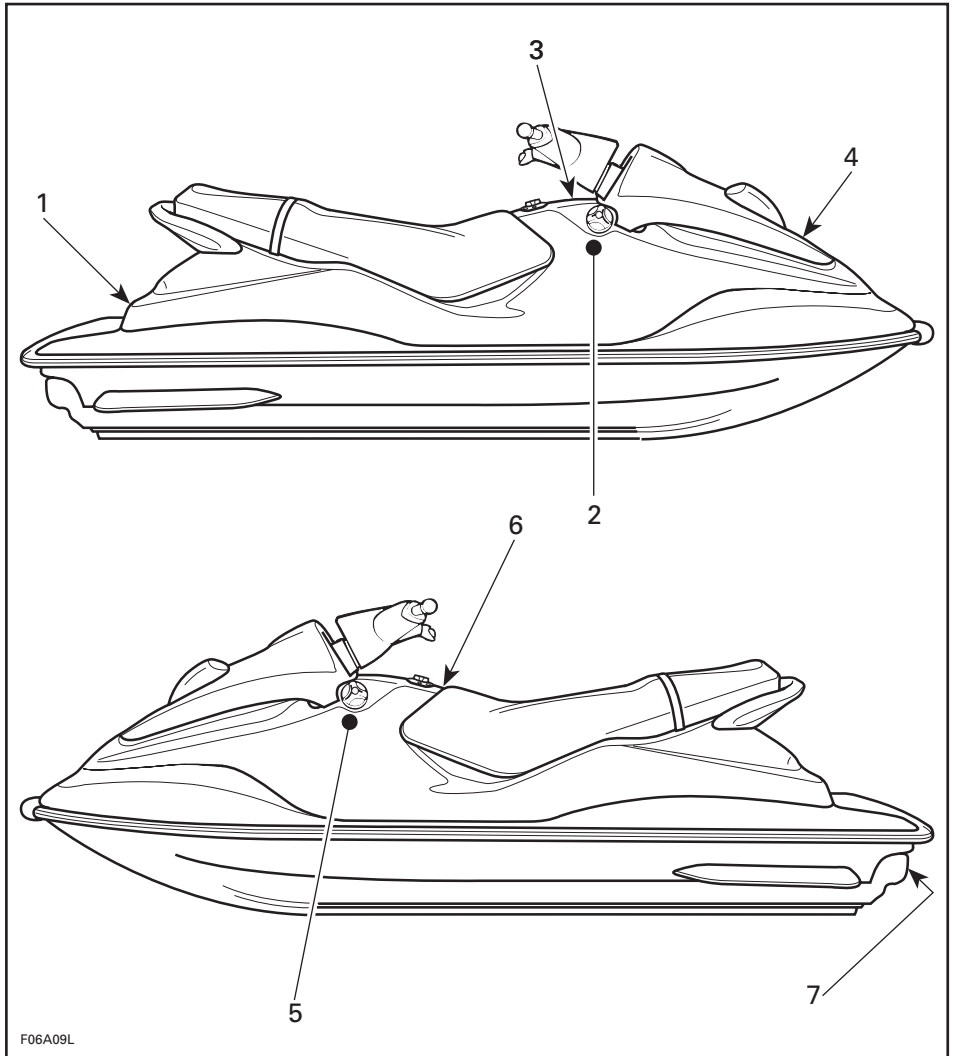
The GSX Limited model features a 947 engine type which requires the use of BOMBARDIER-ROTAX FORMULA XP-S SYNTHETIC INJECTION OIL (P/N 413 710 500) (or the equivalent synthetic oil). The use of any other non-synthetic type oil may cause severe damage to internal parts of the engine.

# SEA-DOO GSX LIMITED (5625) OPERATOR'S GUIDE SUPPLEMENT

NOTE: This supplement must be used in conjunction with the *1997 Sea-Doo Operator's Guide* (P/N 219 000 059), which contains all the general information. When specific models are listed, refer to the information regarding the GSX model, except for the following subjects covered in this supplement

## PAGE 14

### LOCATION OF THE IMPORTANT LABELS



1

"THIS BOAT IS NOT REQUIRED TO COMPLY WITH THE FOLLOWING U.S. COAST GUARD SAFETY STANDARDS IN EFFECT ON THE DATE OF CERTIFICATION:

- Fuel System
- Safe Loading
- Display of Capacity Information
- Flotation
- Powered Ventilation

AS AUTHORIZED BY U.S. COAST GUARD GRANT OF EXEMPTION (CGB 88-001)."

Bombardier Corp. 7575 Bombardier Court, Wausau, WI 54401

Made in Canada/Fabriqué au Canada Bombardier Inc. Rd./Enr.,1988

F02L2DY

2

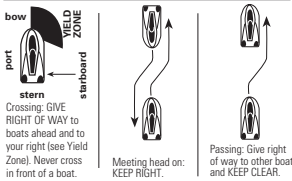
**▼ CAUTION**

USE ONLY BOMBARDIER ROTAX SYNTHETIC TWO-STROKE OIL.  
ASH FREE-BIODEGRADABLE SPEC. CEC L-33A-82.

F01L83Z

3

**REMEMBER THESE RULES OF THE ROAD**



**◆ WARNING**

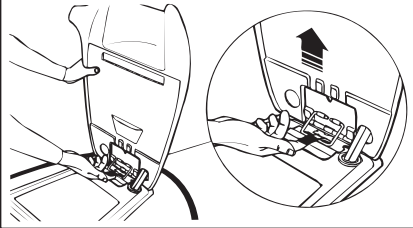
Read all warning labels, *Operator Guide*, & *Safety Handbook* before operation. Severe injury or death can result from ignoring warnings or through improper use of this watercraft.

- Check throttle & steering operation before starting engine.
- Directional control is lost when throttle is released or engine shut off.
- Do not splash others or jump waves or wakes with this watercraft.
- Operator and passenger should always wear approved life vests and recommended clothing.
- Gasoline is explosive. Always observe proper fueling practices and maintenance.
- Properly attach safety lanyard to your life vest.
- This watercraft is not designed for night-time operation.
- Seating is limited to one operator and one passenger (350 lbs.)
- Keep a safe distance from all other water users. Be aware of all boating regulations.

F01L6TM

4

**TO CLOSE / POUR FERMER**



F06A03Y

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.

F01L6VY

6

**• WARNING**

DO NOT BOOST BATTERY WHILE INSTALLED.

F00L05Y

7

**▼ CAUTION**

TO AVOID POSSIBLE ENGINE FLOODING WHEN ROLLED OVER:

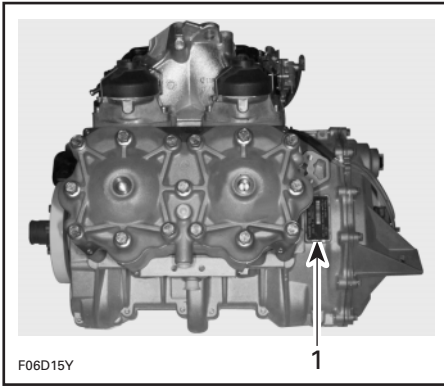


F06L0DY

## PAGE 24

### Engine Identification Number

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



1. Engine Identification Number

## PAGE 33

### 2) Throttle Lever

Do not activate or jerk throttle lever unnecessarily, carburetors are fed with a fuel acceleration pump. The acceleration 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.

## PAGE 43

### 53) Info Center Gauge

Gauge functions:

- clock
- speedometer

- average speed
- peak speed
- trip meter
- tachometer
- chronometer
- water temperature
- engine hourmeter
- maintenance information
- low fuel
- low oil
- low battery
- hi temp
- fuel level
- VTS indicator

**NOTE:** Refer to the *1997 Sea-Doo Operator's Guide* for an overview of the Info Center gauge operation.

## PAGE 46 and 47

### Recommended Oil

Use only BOMBARDIER ROTAX FORMULA XP-S SYNTHETIC INJECTION OIL (or the equivalent synthetic oil).

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

#### ▼ CAUTION

The 947 engine requires the use of BOMBARDIER ROTAX FORMULA XP-S SYNTHETIC INJECTION OIL (or the equivalent synthetic oil). The use of any other non-synthetic oil may cause severe damage to internal parts of the engine

## PAGE 51

### Steering and Throttle Systems

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

## PAGE 67

### Capsized Watercraft

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



## CAUTION

Always refer to decal located on stern of watercraft.

## CAUTION

TO AVOID POSSIBLE ENGINE FLOODING WHEN ROLLED OVER:



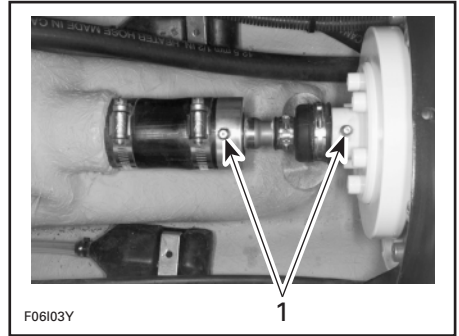
- MAKE SURE ENGINE IS OFF
- GRAB INLET GRATE AND STEP ON BUMPER RAIL
- ROLL BOAT COUNTERCLOCKWISE

F06L0DZ

## PAGE 69

### Lubrication

The PTO flywheel and seal carrier of the drive system should be lubricated with SEA-DOO synthetic grease every 10 operating hours.



1. Grease PTO flywheel and seal carrier

## PAGE 73

### Throttle and Choke Cable Inspection

#### Throttle Cable

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

## PAGE 75

### Fuses

The electrical system is protected with 4 fuses.

All fuses are located on the Multi-Purpose Electronic Module except for one of the 15 A fuse for the charging system which is in the rear electrical box.

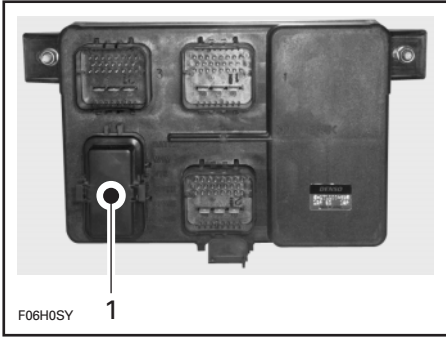
If the battery is regularly discharged, check the 15 A fuses.

If the starter does not operate, check the 5 A fuse.

If the variable trim system does not operate, check the 7.5 A fuse.

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

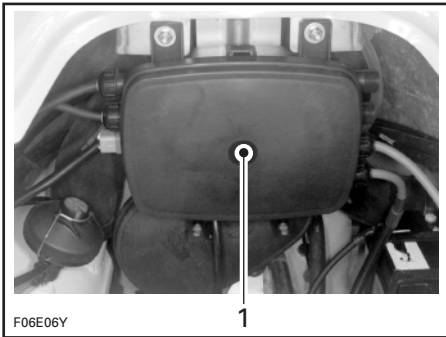
Unclip the fuse cover.



**TYPICAL — MULTI-PURPOSE ELECTRONIC MODULE**

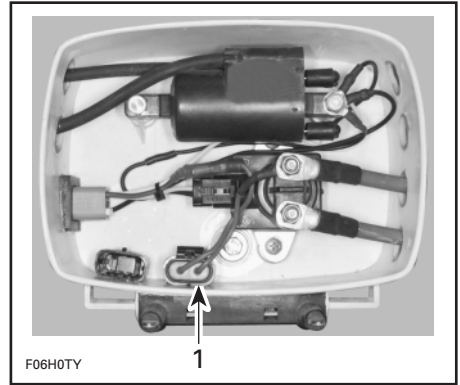
1. Fuse cover

To access the 15 A fuse in the rear electrical box, remove seat and vent tube support.



1. Rear electrical box

Unclip and remove cover of the rear electrical box.



**REAR ELECTRICAL BOX OPENED**

1. Fuse holder

Unclip and pull out fuse holder to check fuse condition.

**▼ CAUTION**

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 rear electrical box, immediately refer to an authorized dealer before operating the watercraft.

**NOTE:** Ensure to properly close cover of the rear electrical box, making sure seal is well positioned.

## PAGE 80

### Additional Recommended Protection

Proceed as follows for adding anti-freeze solution in the engine:

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

Insert a funnel into the hose and pour about 1 liter (1 quart) of antifreeze solution mixed with water.

### ▼ CAUTION

**Always use antifreeze specially formulated for aluminum engines.**

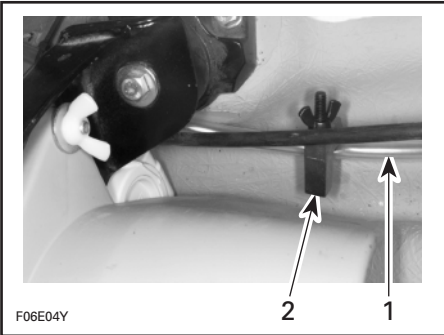
Remove temporary hose and reconnect engine water outlet hose to cylinder head.

Remove hose pincher from engine drain hose.

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

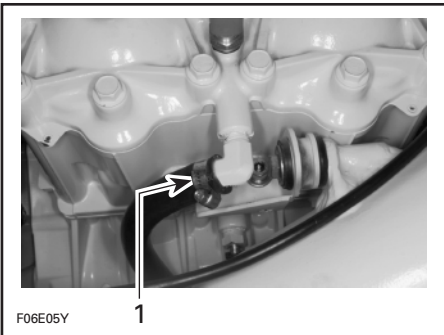
**NOTE:** Although antifreeze will mainly drain out, the antifreeze has mixed with the water that was possibly trapped in the cylinder water jackets and thus preventing freezing problems.

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



1. Engine drain hose
2. Hose pincher

Disconnect engine water outlet hose from cylinder head.



1. Engine water outlet hose

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



# SPECIFICATIONS

<b>ENGINE</b>		<b>GSX LIMITED (5625)</b>
Engine type		Bombardier-Rotax 947, 2-stroke
Induction type		Reed valves
Exhaust system		Water cooled/water injected with regulator
Exhaust valve		Rotax Adjustable Variable Exhaust (R.A.V.E.)
Lubrication	Type	Oil injection
	Oil type	BOMBARDIER ROTAX FORMULA XP-S SYNTHETIC INJECTION OIL (or equivalent synthetic oil)
Number of cylinders		2
Displacement		951.2 cm <sup>3</sup> (58 in <sup>3</sup> )
Rev limiter setting		7200 (± 50) RPM
<b>COOLING</b>		
Type		Water cooled, total loss type. Direct flow from propulsion unit.
<b>ELECTRICAL</b>		
Magneto generator output		180 W @ 6000 RPM
Ignition system type		Digital DC-CDI
Spark plug	Make and type	NGK, BR8ES
	Gap	0.5 - 0.6 mm (.020 - .024 in)
Starting system		Electric starter
Battery		12 V, 19 A
Fuse	Starting system	5 A
	Charging system	2 x 15 A
	VTS system	7.5 A
<b>CARBURETION</b>		
Fuel type		Regular unleaded gasoline
Carburetor		BN 461 Diaphragm type with acceleration pump Quantity: 2

<b>PROPULSION</b>		<b>GSX LIMITED (5625)</b>
Propulsion system		Bombardier Formula pump
Jet pump type		Axial flow, single stage
Transmission		Direct drive
Impeller shaft reservoir oil type		SEA-DOO jet pump synthetic polyolester oil 75W90 GL5
Pivoting angle of direction (nozzle)		~ 20°
Pivoting angle of variable trim system		± 8°
Minimum required water level for jet pump		90 cm (3 ft)
<b>PERFORMANCE</b>		
Cruising time at full throttle	Fuel tank without reserve	49 minutes
	Fuel tank reserve	13 minutes
<b>DIMENSIONS</b>		
Number of passengers ①		2
Overall length		267 cm (105 in)
Overall width		116 cm (45.7 in)
Overall height		94 cm (37 in)
Weight		237 kg (523 lb)
Load limit (passengers + luggage)		159 kg (351 lb)
<b>CAPACITIES</b>		
Fuel tank		56.5 L (15 U.S. gal)
Impeller shaft reservoir	Capacity	70 mL (2.4 U.S. oz)
	Oil level	Up to plug
Oil injection reservoir		6 L (1.6 U.S. gal)

① Refer to load limit.

N.A.: Not Applicable.

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