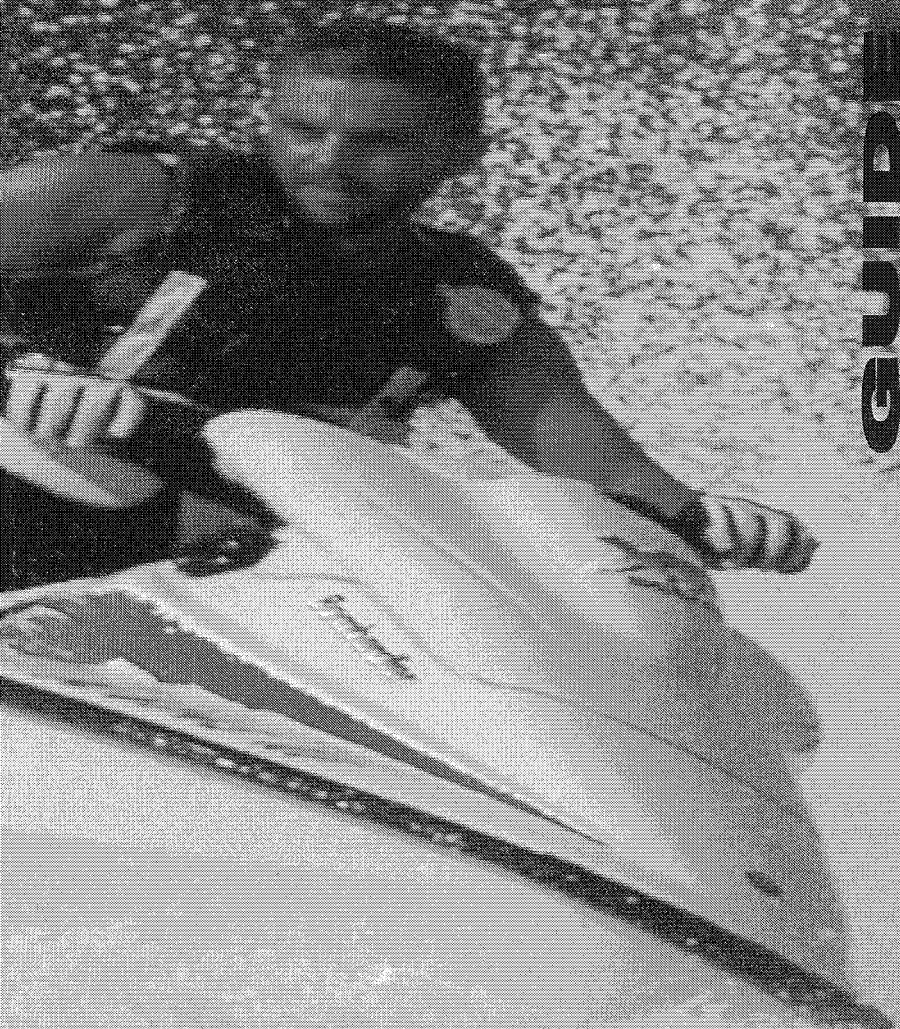


O P E R A T O R ' S

MANUAL



SUPPLEMENT

USE IN CONJUNCTION WITH THE SEA-DOO OPERATOR'S GUIDE (P/N 210 000 036)

GSX GTX
5620 5640

▼ CAUTION : The 787 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.

INTRODUCTION

This *Operator's Guide Supplement* contains information specifically applicable to the GSX (5620) and GTX (5640) models.

For more detailed information that is not covered in this guide, refer to the *Sea-Doo Operator's Guide* (P / N 219 000 036) as it contains general information regarding these watercraft models.

◆ SAFETY WARNING

The performance of these watercraft may significantly exceed that of other watercraft you may have operated. Therefore, use of these watercraft by novice or inexperienced operators is not recommended.

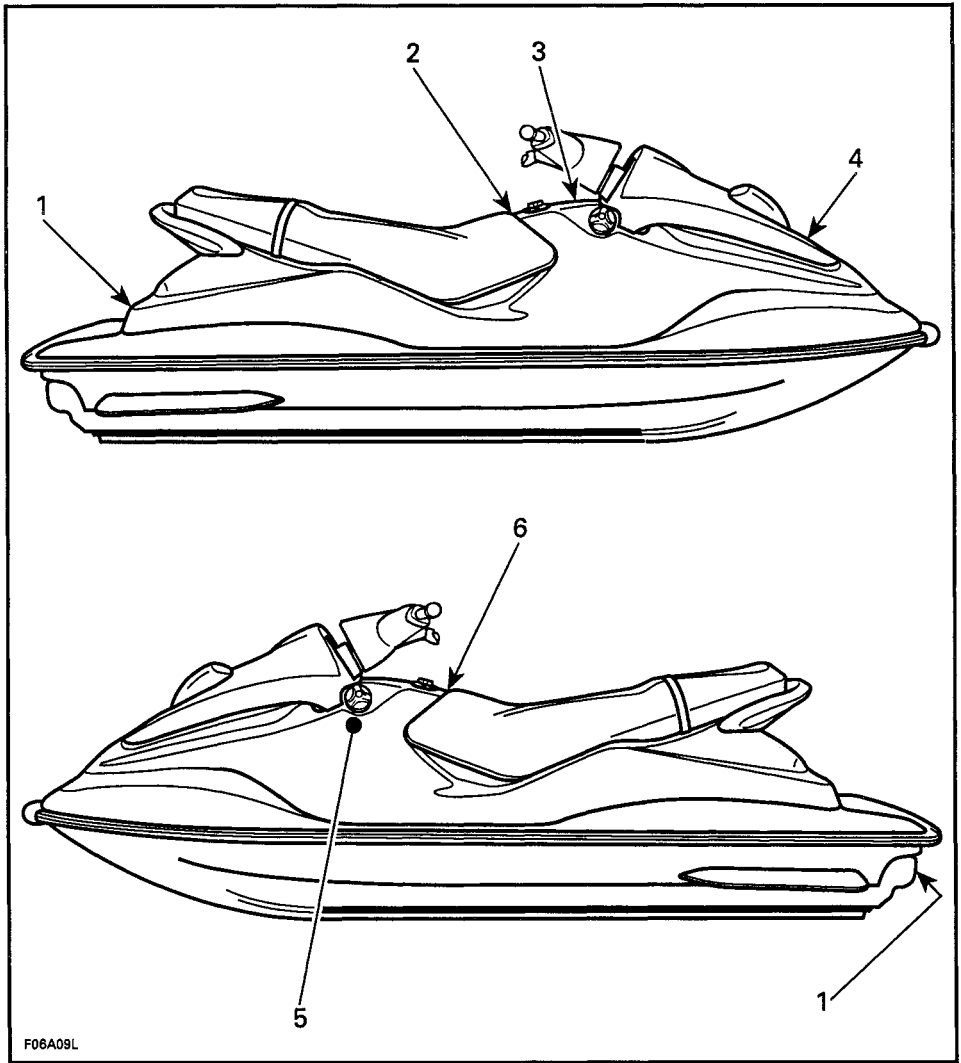
Read and understand the *Operator's Guide*, the *Operator's Guide Supplement* and *Safety Handbook* before operating these watercraft.

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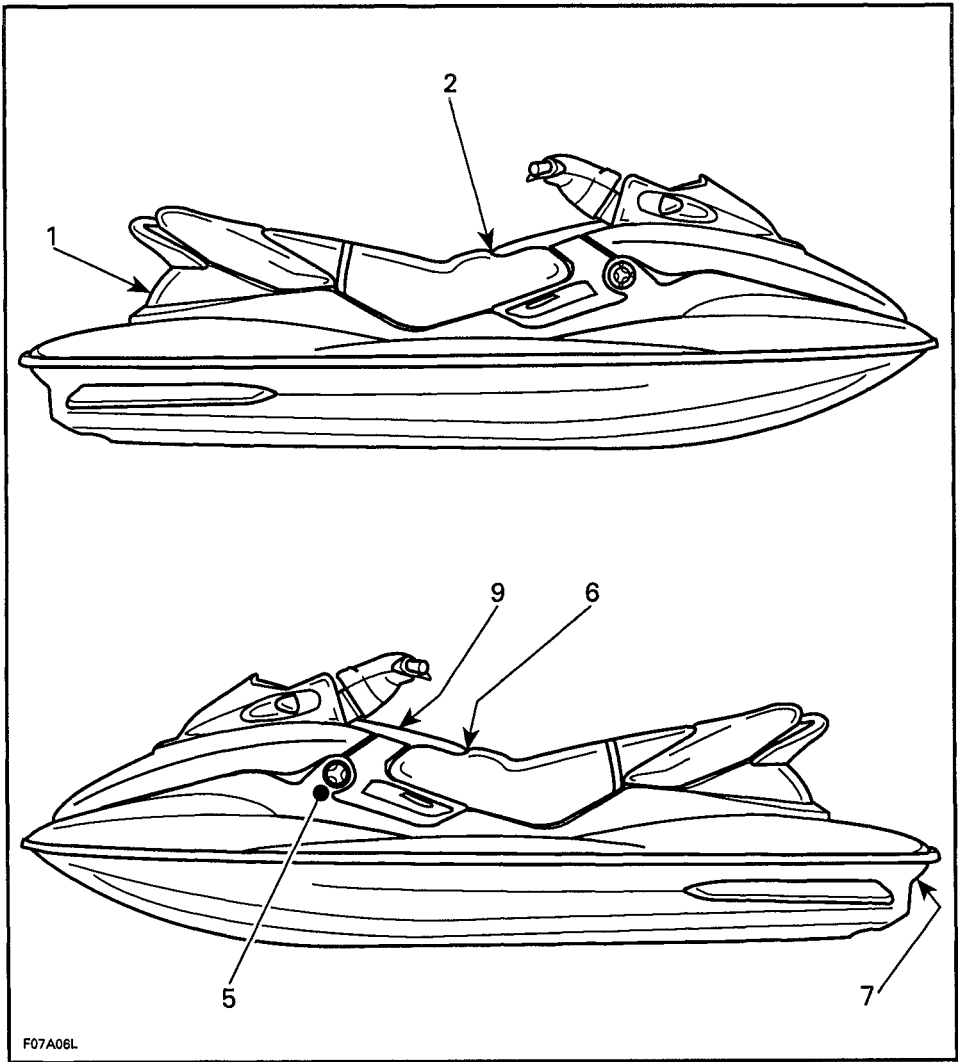
LOCATION OF THE IMPORTANT LABELS

Please read the following labels carefully before operating this watercraft.



F06A09L

GSX



F07A06L

GTX

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

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

Bombardier Corp. 7876 Bombardier Court, Waukegan, WI 54981

Made in Canada/Fabriqu  au Canada | Bombardier Inc. Rd./Enr., 1988

F02L2DY

2

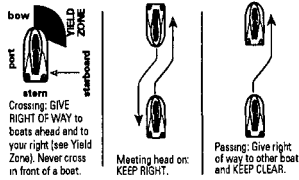
◆ CAUTION

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

F01L83Y

3

REMEMBER THESE RULES OF THE ROAD



F01L6TL

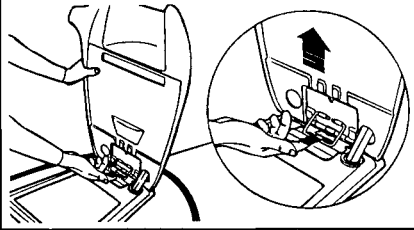
◆ WARNING

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.

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. SERVICING OF ELECTRICAL COMPONENTS SHOULD BE DONE BY DEALER ONLY.

F02L2CY

7

▼ CAUTION

TO AVOID POSSIBLE ENGINE FLOODING WHEN ROLLED OVER :



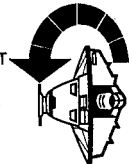
- MAKE SURE ENGINE IS OFF
- GRAB INLET GRATE AND STEP ON BUMPER RAIL
- ROLL BOAT CLOCKWISE

F02L2EY

8

AFTER ROLL OVER

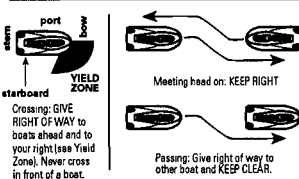
ALWAYS TIP WATERCRAFT AS SHOWN BEFORE RESTARTING ENGINE



F01L6UY

9

REMEMBER THESE RULES OF THE ROAD



F07L01L

◆ WARNING

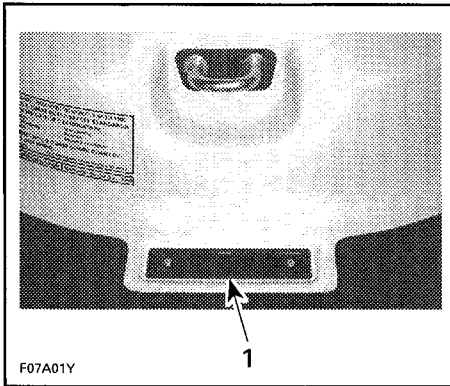
Read all warning labels, *Operator Guide*, & *Safety Handbook* before operation. Severe injury or death can result from ignoring warnings or through improper use of this watercraft.

- 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 passengers 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 two passengers (495 lbs.)
- Keep a safe distance from all other water users. Be aware of all boating regulations.

WATERCRAFT IDENTIFICATION

Hull Identification Number

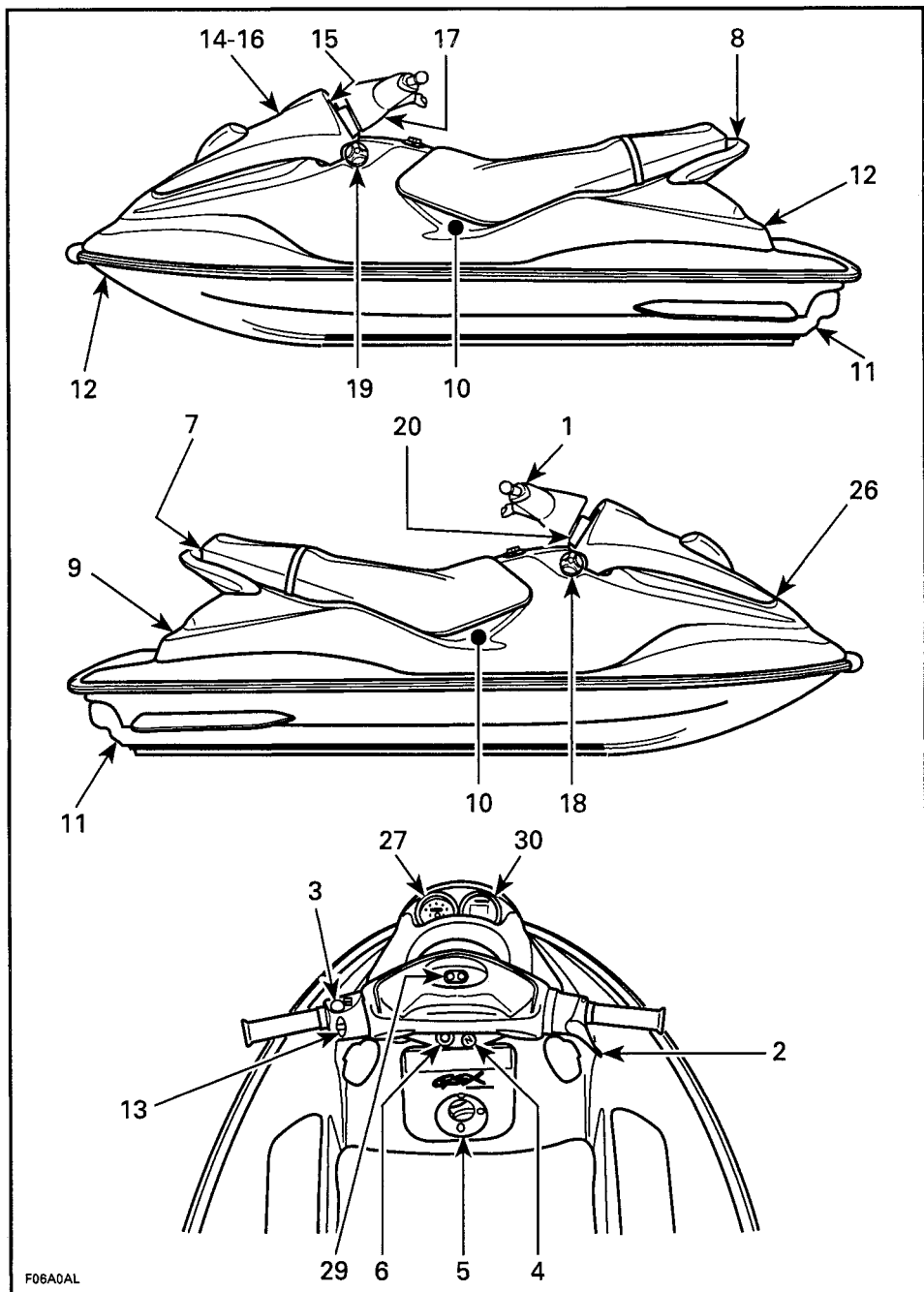
The Hull Identification Number (H.I.N.) is located on floorboard at the rear of watercraft.



TYPICAL

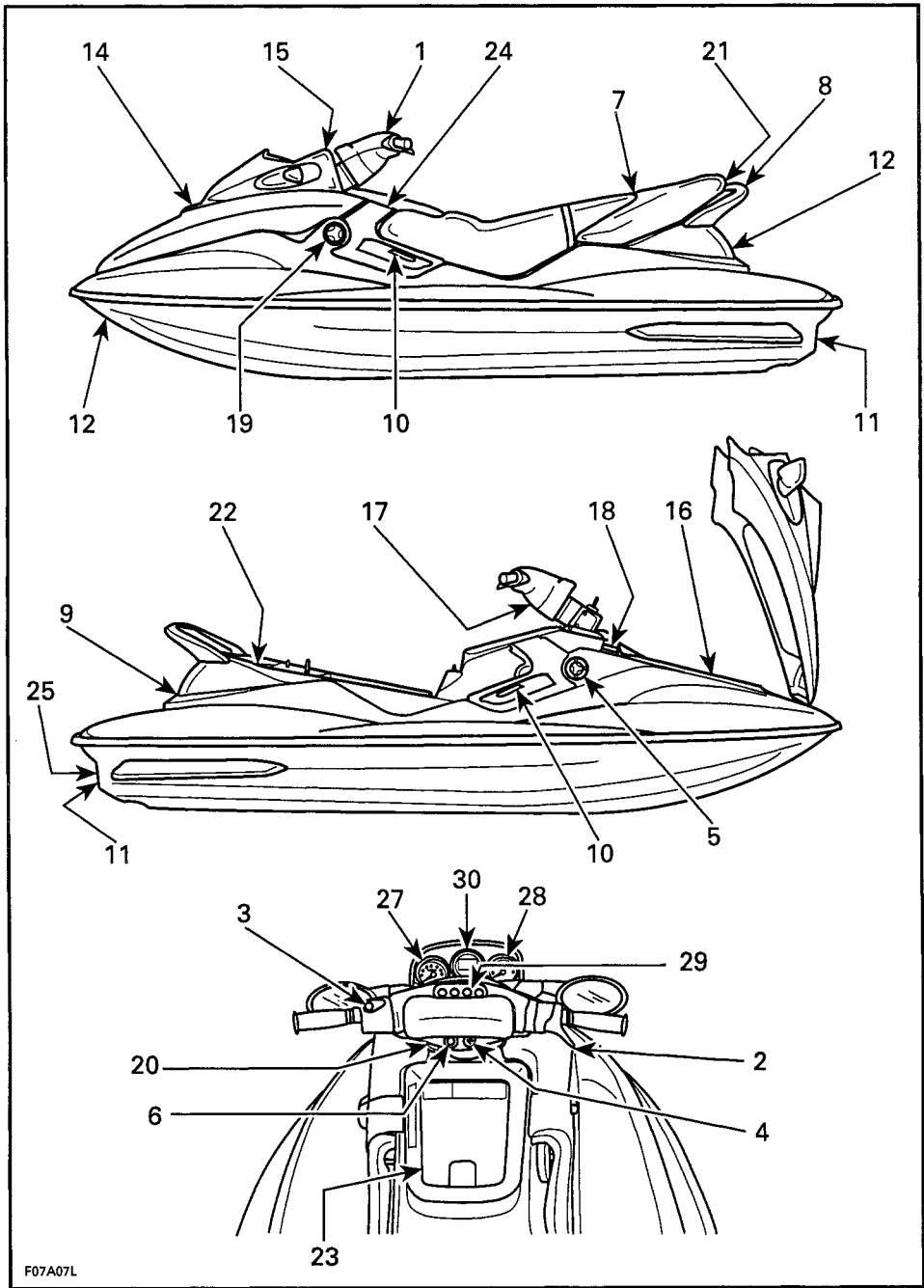
1. Hull Identification Number

COMPONENT FUNCTIONS



F06A0AL

GSX



F07A07L

GTX

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.

3) Engine Start / Stop Button

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

○ **NOTE** : The safety lanyard must be properly installed on switch to allow engine starting.

To stop engine, fully release throttle lever then depress the button.

◆ **WARNING** : When the engine is stopped, watercraft directional control is not available.

4) Choke Lever

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

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

▼ **CAUTION** : A partially open fuel valve will lead to fuel starvation and possible engine damage.

OFF : Stop fuel supply to carburetors.

▼ **CAUTION** : Turn valve to OFF position when watercraft is not operated.

ON : Allows fuel to flow to carburetors. This is the normal position for operation of watercraft.

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

◆ **WARNING** : Always refill the fuel tank at the first opportunity. After refueling, turn the fuel valve to the ON position for further operation.

6) Safety Lanyard Switch

Pulling the safety lanyard 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.

○ **NOTE** : Two short beeps must be heard when installing the safety lanyard cap on the switch. Otherwise, refer to the TROUBLESHOOTING section in the *Sea-Doo Operator's Guide* (P / N 219 000 036).

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.

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 D.E.S.S., leaving the safety lanyard for more than 10 minutes after stopping the engine will require the removal and reinstallation of the safety lanyard to allow engine starting.

7) Seat Latch

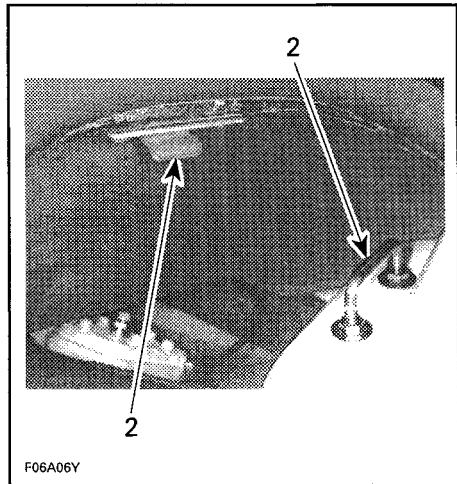
The seat latch is located at the rear end and underneath the seat.

Removing the seat allows access to the engine compartment.

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

NOTE : On the GTX model, it is necessary to remove the rear seat first.

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



- 1. Front tab
- 2. Hook

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

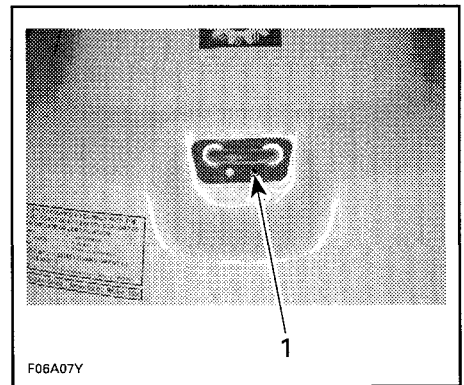
8) Rear Grab Handle

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

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

9) Cooling System Bleed Outlet

When engine is running, water must flow from this hole. It indicates that water is circulating in the cooling system.



- 1. Bleed outlet hole

CAUTION : Should water not flow from this 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 dealer for servicing.

10) Air Intake Opening

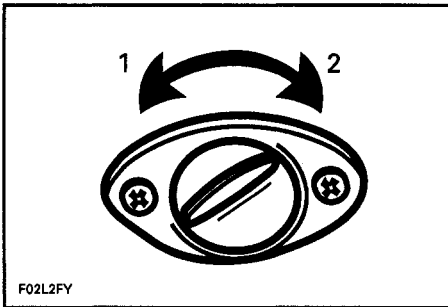
This is where air enters to supply the engine and ventilate the engine compartment.

▼ **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.

11) Bilge Drain Plugs

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

▼ **CAUTION** : Remove watercraft from water prior to unscrewing the drain plugs.



1. Unscrew
2. Tighten

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

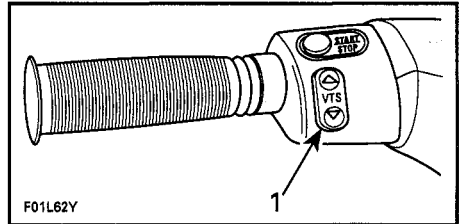
◆ **WARNING** : Always make sure bilge drain plugs are properly tighten.

12) Bow and Stern Eyelets

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

13) Trim Button (GSX)

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

14) Storage Compartment Cover

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

15) Cover Latch

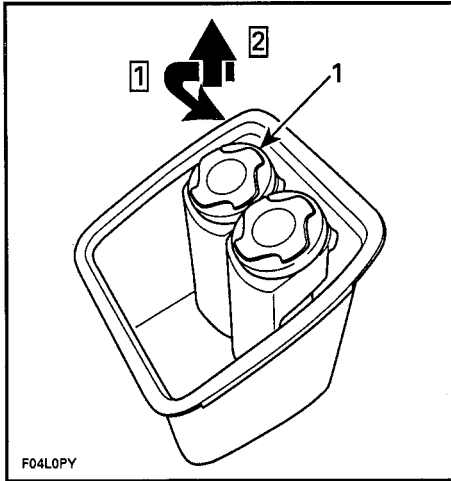
Pull the latch lever upward in order to open the storage compartment cover. Always relatch.

16) Storage Tray

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

◆ **WARNING** : Never leave any heavy or breakable object in the tray. Never store or carry anything below tray.

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



F04LOPY

TYPICAL

Step 1 : Turn cover counterclockwise

Step 2 : Lift

1. Extinguisher holder

17) Monitoring Beeper

The monitoring beeper sends audible signals to inform you of a particular condition. Refer to the TROUBLE-SHOOTING section in the *Sea-Doo Operator's Guide* (P/N 219 000 036) for signal description and their significance.

18) Oil Injection Reservoir Cap

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

○ **NOTE** : On the GTX model, storage cover must be opened to expose oil cap.

19) Fuel Tank Cap

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

20) Docking Eyelets

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

21) Rear Seat Latch (GTX)

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

22) Rear Storage Tray (GTX)

A convenient watertight, removable tray to carry personal articles.

23) Glove Box (GTX)

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

24) Shift Lever (GTX)

A 3-position lever :

- Forward
- Neutral
- Reverse

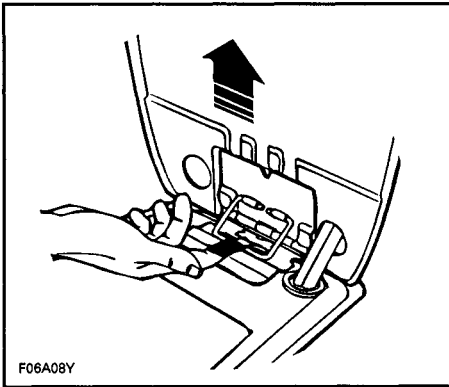
◆ **WARNING** : Shift lever should only be used when the engine is idling. Never rev the engine at high rpm's.

25) Deflector (GTX)

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

26) Storage Compartment Cover Hinge / Locking Mechanism (GSX)

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



27) Tachometer

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

The tachometer also features a red warning LED which turns on when the engine overheats.

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

28) Speedometer (GTX)

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

The speedometer also features a red warning LED which turns on when level of injection oil is low in the reservoir.

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

29) Info Center Switch

The MODE button is used to change display functions.

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

30) Info Center Gauge

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

GSX Model

- Engine hourmeter
- Clock
- Fuel level
- Chronometer
- VTS
- Tachometer
- Low fuel
- Low oil
- Low battery
- Hi temp
- Maintenance information

GTX Model

- Engine hourmeter
- Clock / compass
- Fuel level
- Chronometer
- Peak speed
- Distance
- Lake temperature
- Exterior temperature
- Average speed
- Speedometer

-
- Tachometer
 - Low fuel
 - Low oil
 - Low battery
 - Hi temp
 - Maintenance information

◆ **WARNING** : Use the compass as a guide only, not to be used for navigation purposes.

All Models

The Info Center also features a red warning LED which turns on when level of fuel is low in the reservoir.

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

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.

DISPLAY PRIORITIES

The clock / compass function is the basic mode of the Info Center gauge.

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

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

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.

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.

LUBRICATION

Recommended Oil

Use only BOMBARDIER ROTAX FORMULA XP-S synthetic injection oil.

▼ **CAUTION** : The 787 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.

BREAK-IN PERIOD

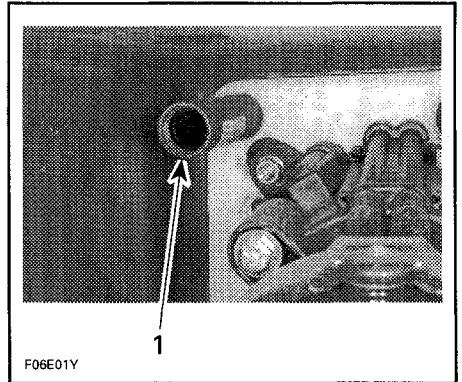
To assure additional protection during the initial engine break-in, **1 liter** of BOMBARDIER ROTAX FORMULA XP-S synthetic injection oil should be added to the first full fuel tank filling only.

POST-OPERATION CARE

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. No hose pincher is required to flush engine.

▼ **CAUTION** : Follow the **COOLING SYSTEM FLUSHING PROCEDURE** exactly as specified in the *Sea-Doo Operator's Guide* (P / N 219 000 036).



1. Hose adapter

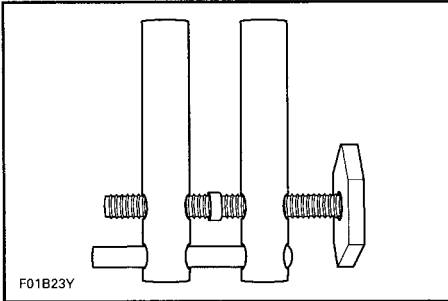
SPECIAL PROCEDURES

Towing the Watercraft

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

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

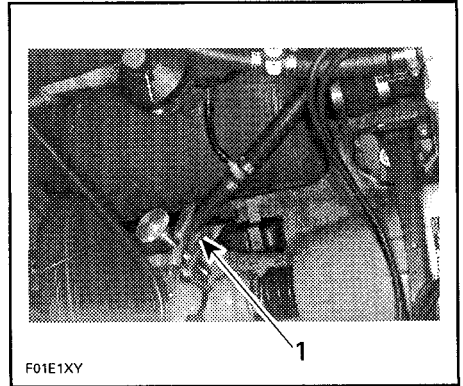
When towing your watercraft pinch the water supply hose from the impeller housing to the engine with the Hose Pincher (large) P / N 529 030 400 shown in the following illustration.



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 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 hose as shown in the following illustration.



1. Hose pincher installed

▼ **CAUTION** : When finished towing the craft you must *remove the hose pincher* before operating it. Failure to do so will result in damage to the engine.

SPECIFICATIONS

ENGINE		GSX (5620)	GTX (5640)
Engine type		Rotax 787, 2-stroke	Rotax 787, 2-stroke
Induction type		Rotary valve	Rotary valve
Exhaust system		Water cooled / water injected with regulator	Water cooled / water injected with regulator
Exhaust valve		R.A.V.E.	R.A.V.E.
Lubrication	Type	Oil injection	Oil injection
	Oil type	FORMULA XP-S synthetic injection oil	FORMULA XP-S synthetic injection oil
Number of cylinders		2	2
Displacement		781.6 cm ³ (47.7 in ³)	781.6 cm ³ (47.7 in ³)
Rev limiter setting		7200 RPM ± 50	7200 RPM ± 50
COOLING			
Type		Water cooled, total loss type. Direct flow from propulsion unit.	Water cooled, total loss type. Direct flow from propulsion unit.
ELECTRICAL			
Magneto generator output		180 W @ 6000 RPM	180 W @ 6000 RPM
Ignition system type		DC-CDI	DC-CDI
Spark plug	Make and type	NGK, BR8ES	NGK, BR8ES
	Gap	0.5 - 0.6 mm (.020 - .024 in)	0.5 - 0.6 mm (.020 - .024 in)
Starting system		Electric starter	Electric starter
Battery		12 V, 19 A	12 V, 19 A
Fuse	Starting system	5 A	5 A
	Charging system	2 x 15 A	2 x 15 A
	VTS system	7.5 A	N.A.
	Holder relay	5 A	5 A
CARBURETION			
Fuel type		Regular unleaded gasoline	Regular unleaded gasoline
Carburetor		BN 401 Diaphragm Quantity : 2	BN 401 Diaphragm Quantity : 2

N.A. : Not applicable

PROPULSION		GSX (5620)	GTX (5640)
Propulsion system		Bombardier Formula pump	Bombardier Formula pump
Jet pump type		Axial flow, single stage	Axial flow, single stage
Transmission		Direct drive	Direct drive
Impeller shaft reservoir oil type		SEA-DOO synthetic polyolester oil 75W90 GL5	SEA-DOO synthetic polyolester oil 75W90 GL5
Pivoting angle of direction (nozzle)		~ 26°	~ 20°
Pivoting angle of variable trim system		± 8°	Not Applicable
Minimum required water level for jet pump		90 cm (3 ft)	90 cm (3 ft)
PERFORMANCE			
Cruising time at full throttle	Fuel tank without reserve	~1 hour 8 minutes	~1 hour 8 minutes
	Fuel tank reserve	~9 minutes	~9 minutes
DIMENSIONS			
Number of passengers (driver included)		2	3
Overall length		267 cm (105 in)	312 cm (122.8 in)
Overall width		116 cm (45.7 in)	119 cm (47 in)
Overall height		99 cm (39 in)	94 cm (37 in)
Weight		227 kg (500 lb)	262 kg (578 lb)
Load limit (passengers + luggage)		165 kg (364 lb)	230 kg (507 lb)
Hull material		Composite (fiberglass)	Composite (fiberglass)
CAPACITIES			
Fuel tank		56.5 L (15 U.S. gal)	56.5 L (15 U.S. gal)
Impeller shaft reservoir	Capacity	90 mL (3 U.S. oz)	90 mL (3 U.S. oz)
	Oil level	Up to plug	Up to plug
Oil injection reservoir		6 L (1.6 U.S. gal)	6 L (1.6 U.S. gal)

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

ACCESSORIES

Sea-Doo Cover

GSX : P / N 298 553 074

GTX : P / N 298 555 074



P219000043 CA2001

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LITHO'D IN CANADA

