

December 17, 2008 Subject: **Predelivery Inspection**

No. **2009-1**

**All Models Except GTX LTD and RXT iS  
North America**

MODEL	PACKAGE	MODEL NUMBER	ENGINE (HP)	PREDELIVERY KIT	SERIAL NUMBER
GTX <sup>†</sup>	STD	149A	1503NA (155)	294 000 840	ALL
	STD	339A	1503BVIC (215)		
	WAKE PRO	269A	1503BVIC (215)		
RXT™	STD	179A / 179C	1503BVIC (215)	294 000 841	
	X	319A	1503BVIC HO (255)		
GTI™	STD	239A	1503DT (130)	294 000 840	
	SE	249A	1503DT (130)		
	SE	309A	1503NA (155)		
	WAKE	359A	1503NA (155)		
RXP™	STD	219A	1503BVIC (215)	294 000 841	
	X	329A	1503BVIC HO (255)		

GTX<sup>†</sup> is a trademark of Castrol Ltd. Used under license

## TABLE OF CONTENTS

	Page		Page
<b>IMPORTANT NOTICE</b> .....	<b>2</b>	Steering Alignment .....	10
<b>UNCRATING</b> .....	<b>3</b>	O.P.A.S.™ System Alignment .....	11
Crate Cover .....	3	Throttle Cable Adjustment .....	11
Shipping Bracket .....	3	Protective Films Removal .....	12
Lifting the Watercraft .....	3	Final Inspection .....	12
<b>SET-UP</b> .....	<b>3</b>	Watercraft Cleaning .....	12
Battery Removal, Preparation and Installation .....	3	<b>DELIVERY TO CUSTOMER</b> .....	<b>12</b>
Venturi Installation .....	4	Vehicle Delivery .....	12
Handlebar Assembly Installation .....	5	Accessories .....	12
Handlegrip Installation .....	6	<b>SPECIFICATIONS</b> .....	<b>13</b>
Storage Cover Shock Installation .....	7	GTI Models .....	13
<b>FINAL PREPARATION</b> .....	<b>7</b>	GTX Models .....	14
B.U.D.S. Programming .....	7	RXP Models .....	15
Fuel .....	8	RXT Models .....	16
Engine Oil Level .....	8	Wake Models .....	17
Engine Coolant Level .....	10		

## IMPORTANT NOTICE

This bulletin must be used in conjunction with the *PRE-DELIVERY CHECK LIST* enclosed in the shrink pack.

### WARNING

To obtain limited warranty coverage, pre-delivery procedures must be performed by an authorized Sea-Doo watercraft dealer/distributor. Apply all necessary torques as indicated.

— The information and components/system descriptions contained in this document are correct at the time of publication. However, BRP maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured.

— Due to late changes, there might be some differences between the manufactured product and the descriptions and/or specifications in this document. BRP reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring obligation.

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

— The content of this bulletin is designed as a guideline only. All mechanics performing predelivery procedures should have attended the current model year service training.

— Further information or inquiries should be directed to your distributor service representative and/or specific *SHOP MANUAL* sections.

— Please complete the *PREDELIVERY CHECK LIST* for each watercraft and retain a purchaser signed copy.

— Make sure the purchaser receives the *OPERATORS GUIDE*, *PREDELIVERY CHECK LIST* signed copy and *SAFETY VIDEO*.

### WARNING

Torque wrench tightening specifications must be strictly adhered to. Where specified, install new locking devices (e.g. lock tabs, elastic stop nuts). If the efficiency of a locking device is impaired, it must be renewed.

## UNCRATING

### Crate Cover

1. Carefully lay crate on its bottom.

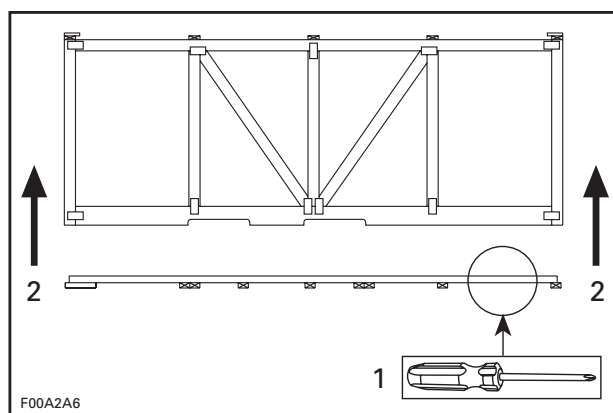
**NOTICE** Allowing crate to drop may cause serious damage to watercraft.

2. Remove all screws retaining crate cover to crate base.

**NOTE:** Screws that are used are Robertson† #2 type that require the use of an appropriate bit (Scrulox #2 from Snap-on†† Tools or ECAR.1 from Facom††† Tools).

3. Assisted by another person, lift up crate cover.

**NOTE:** Do not tip cover toward front or back of watercraft. Raise cover vertically from both ends at the same time.



#### TYPICAL

1. Remove screws
2. Raise cover vertically

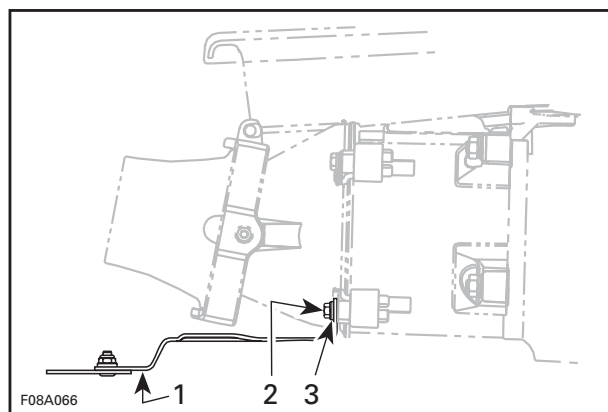
4. Remove watercraft protective bag.

5. Remove parts from watercraft's storage compartments and from crate.

### Shipping Bracket

1. Remove shipping bracket from venturi.

2. Discard shipping bracket and hexagonal bolts. Keep the flat washers.



#### TYPICAL

1. Shipping bracket
2. Hexagonal bolt
3. Flat washer

### Lifting the Watercraft

1. Cut strapping at watercraft front eyelet.

2. Release shipping bracket at rear of watercraft from crate base.

3. Lift watercraft using appropriate lift kit and install it on a proper support.

## SET-UP

### Battery Removal, Preparation and Installation

#### Battery Removal

#### **⚠ WARNING**

**Never charge or boost battery while installed in watercraft.**

The battery may be located under the front storage compartment or under the seat, depending on models.

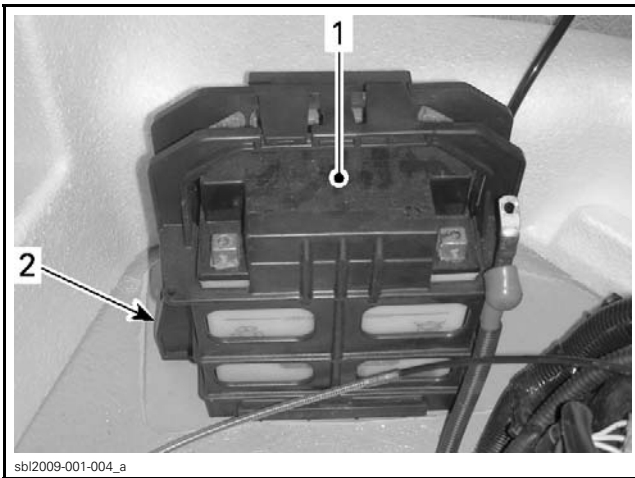
1. Unscrew the battery support.

**NOTE:** On some models, a locking tie supporting the engine oil vapors return hose to the battery support may required to be removed. **Be sure to install a new one** when battery will be reinstall.

† Robertson is a registered trademark of Robertson Inc.

†† Snap-on is a trademark of Snap-on Inc.

††† FACOM is a brand of International tools Group, subsidiary of FIMALAC.



**TYPICAL**  
 1. battery support  
 2. Screws

2. Remove battery from watercraft.

### Battery Activation

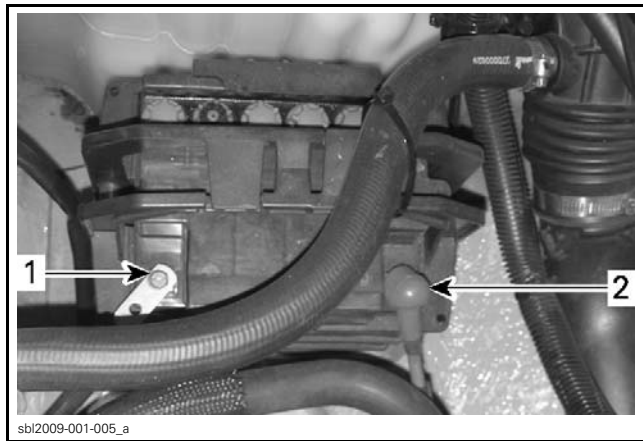
Refer to the latest edition of *SEA-DOO BATTERIES ACTIVATION, CHARGING AND MAINTENANCE BULLETIN* and to instructions notice attached to battery for proper activating, charging and maintenance procedure.

### Battery Installation

**⚠ WARNING**  
 Always connect battery cables exactly in this specific order. Connect RED positive cable first, then BLACK negative ground cable.

1. Secure RED positive cable to battery positive post with:
  - 1 hexagonal bolt,
  - 1 flat washer and
  - 1 nut, all from predelivery kit (P/N 250 000 282).
2. Apply dielectric grease (P/N 293 550 004) on positive battery post.
3. Cover positive battery post with rubber boot.

**NOTE:** On RXP models, RED positive cable **must** be installed at a 45° angle while BLACK negative cable is still accepted at a 90° angle.



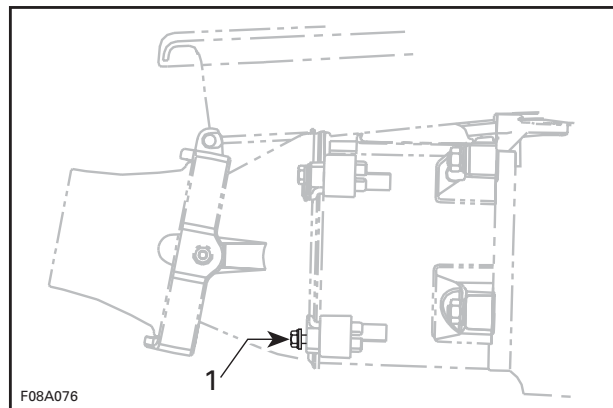
**TYPICAL**  
 1. BLACK negative cable  
 2. RED positive cable

4. Secure BLACK negative cable to negative battery post with:
  - 1 hexagonal bolt,
  - 1 flat washer and
  - 1 nut, all from predelivery kit (P/N 250 000 282).
5. Apply dielectric grease (P/N 293 550 004) on negative battery post.
6. Secure battery with previously removed bracket, flat washers and nuts.
7. Install battery vent tube.

**⚠ WARNING**  
 Ensure vent tube is not kinked or obstructed. Battery vent tube must be properly installed and secured with a locking tie.

### Venturi Installation

1. Secure lower portion of the venturi with:
  - 2 hexagonal bolts (with scotch grip) from predelivery kit (refer to table below).
  - 2 M8 flat washers (previously removed).



1. Venturi lower portion

MODEL	BOLT
149A / 239A / 249A / 309A 359A	M8 x 50 (with scotch-grip)
339A / 269A / 179A / 179C 319A / 219A / 329A	M8 x 40 (with scotch-grip)

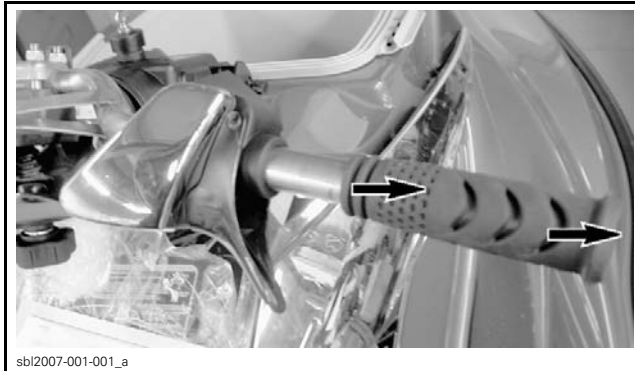
2. Torque to 21 N•m (15 lbf•ft).

## Handlebar Assembly Installation

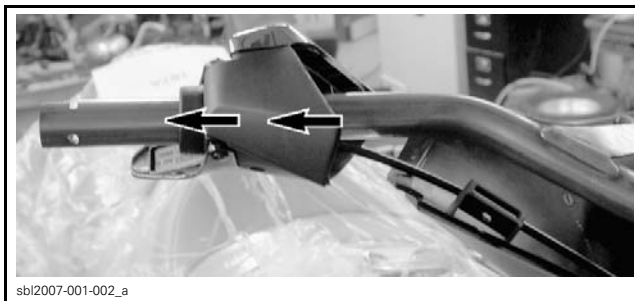
*All models except X*

Upper handlebar cover with padding is located inside front luggage compartment, underneath storage box.

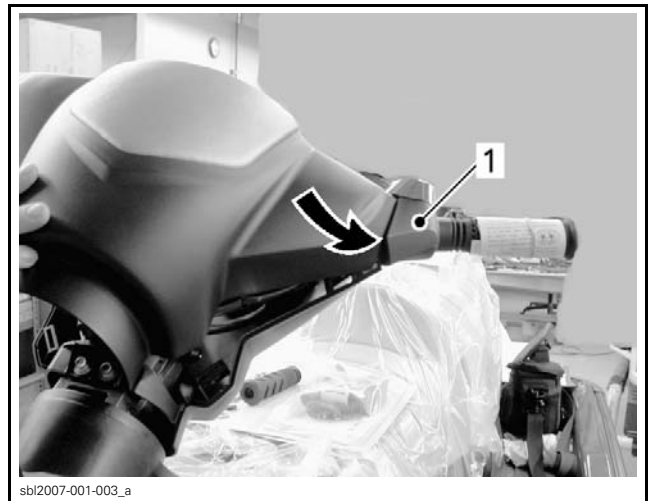
1. Pull out right side handle grip and unscrew M6 x 16 throttle lever housing socket set screw. Discard screw as there are new ones in the PDI kit.



2. Push out throttle lever housing just enough to gain a little room on the inside approximately 12.7 mm (1/2 in).

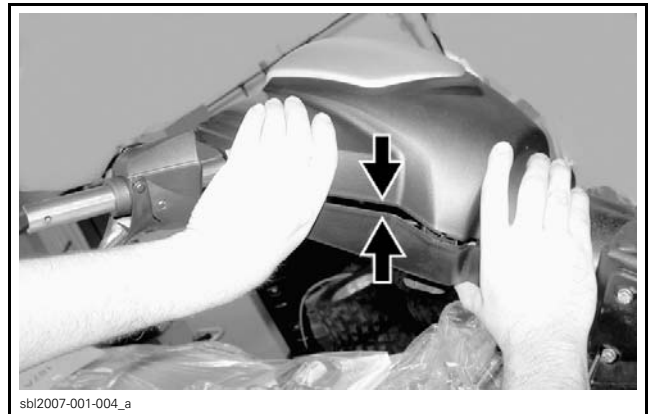


3. Align and slide upper handlebar cover under left side engine stop switch housing and then, close it down slowly toward right side making sure to align all 5 male/female tabs along the way.



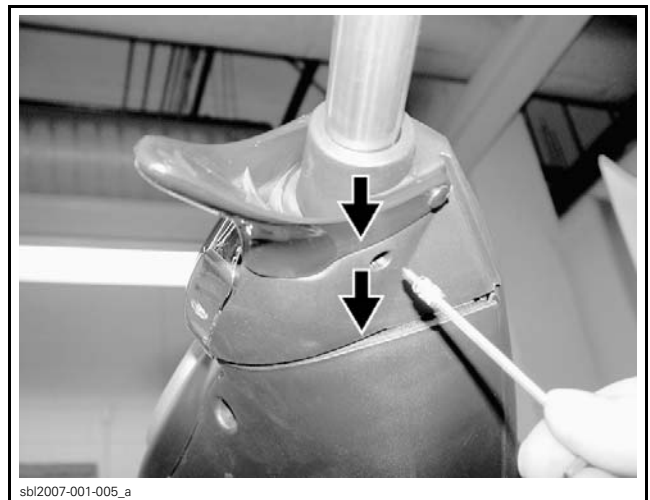
1. Left side engine stop switch housing

4. Press upper and lower handlebar covers together so tabs clip in position.



5. Secure upper and lower covers using three K40 x 16 screws (P/N 241 141 660) and washers (P/N 234 051 600) included in the predelivery kit.

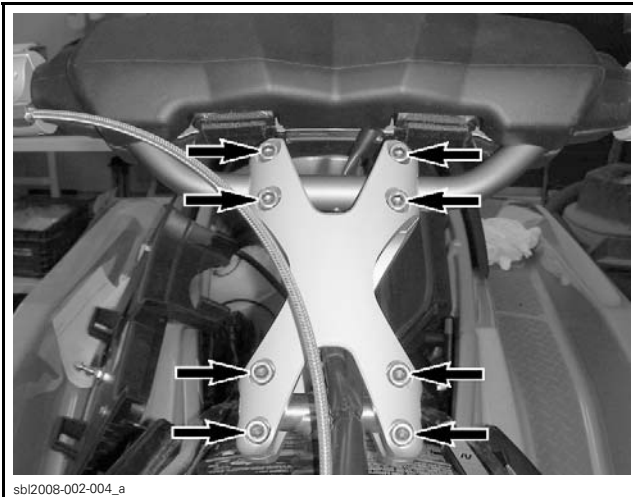
6. Push throttle lever housing back in position and secure in place using an new M6 x 16 (P/N 250 000 036) socket head screw (with scotch grip).



**X models**

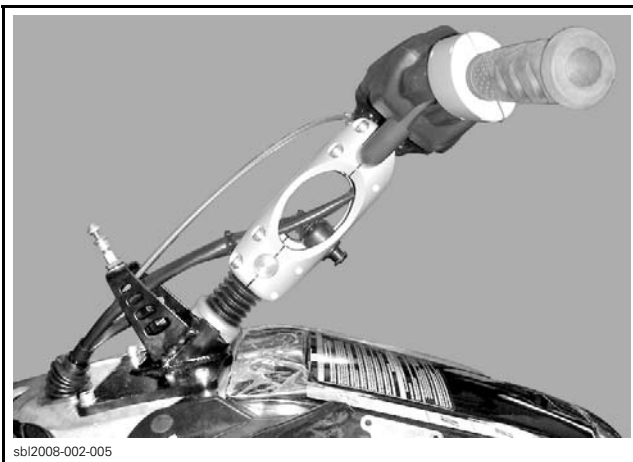
On X models, the handlebar is already installed on watercraft but has been tilt down for shipping.

1. Loosen the 8 bolts shown on picture enough to move assembly freely.



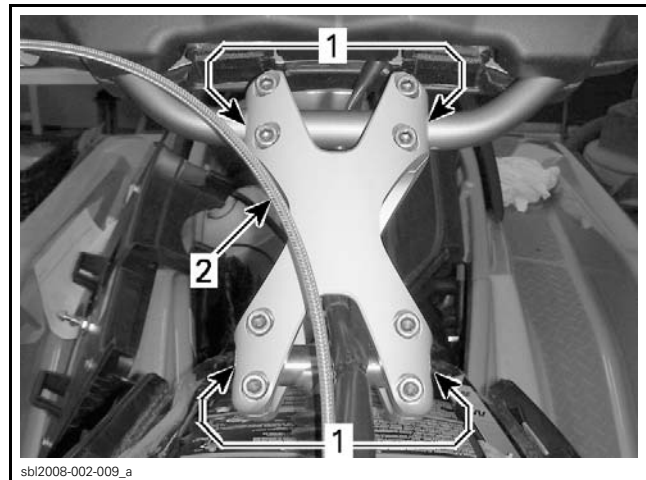
sb12008-002-004\_a  
**LOOSEN BOLTS**

2. Align handlebar and X riser in order to be straight with steering stem.



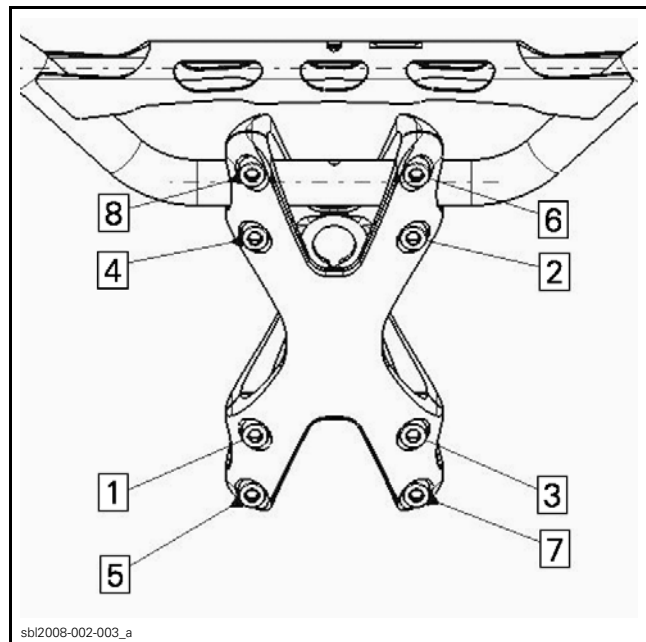
3. Make sure handlebar and stem is correctly centered in the X riser.

**NOTE:** Throttle cable must pass over X riser.



1. Correctly centered
2. Throttle cable

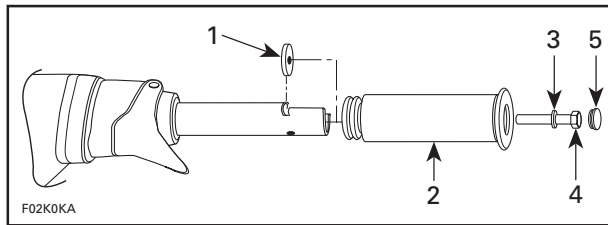
4. Torque the 8 bolts first at 2.5 N•m (22 lbf•in), then at 19 N•m (168 lbf•in) into the following sequence.



5. Install handle grip.

**Handlegrip Installation**

1. Place an insert (P/N 277 000 554) (from pre-delivery kit) into notch in handlebar.
2. Slide handle grip back in place making sure it bottoms at proper place.
3. Secure with an M6 x 30 hexagonal bolt (P/N 250 000 002) (with scotch grip) and an M6 stainless steel flat washer (P/N 240 062 600).



1. Insert (P/N 277 000 554)
2. Handle grip
3. M6 stainless steel flat washer (P/N 240 062 600)
4. M6 x 30 hexagonal bolt (P/N 250 000 002)
5. Rubber cap (P/N 277 000 203)

**NOTICE** Ensure to install flat washer otherwise screw will damage grip end.

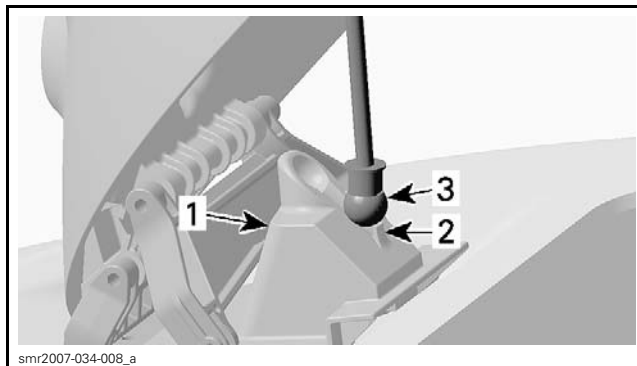
4. Torque bolt to 7 N•m (62 lbf•in).
5. Cover bolt by inserting rubber cap (P/N 277 000 203).

Repeat steps for other side.

## Storage Cover Shock Installation

### GTX STD & LTD and Wake Models

1. Snap the top of shock (body side) in inner shell socket.
2. Place the bottom of shock (rod side) against the bump on the shock support and close storage compartment cover. The bottom of the shock will be inserted in its place automatically.



1. Shock support
2. Bump
3. Bottom of shock

## FINAL PREPARATION

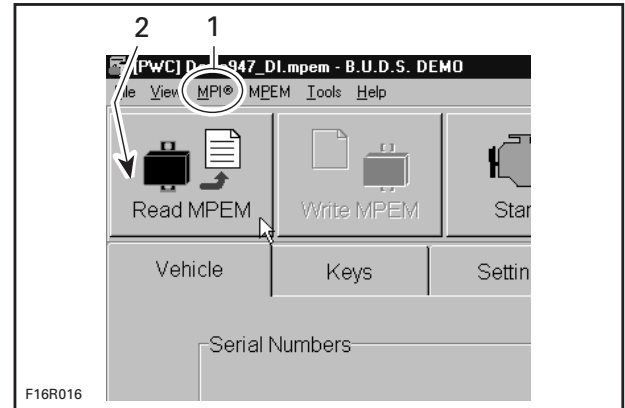
### B.U.D.S. Programming

#### Watercraft Identification

To enter watercraft identification or to program a safety lanyard, use BRP Utility and Diagnostic Software (B.U.D.S.) in conjunction with VCK.

The MPI-2 and DESS Post Interface can also be use.

Always use the latest B.U.D.S. version that is available from BOSSWeb ([www.bossweb.brp.com](http://www.bossweb.brp.com)) for the SEA DOO product line .



Connect VCK components and start B.U.D.S.

Choose KW2000 Protocol from Choose Protocol option in the MPI drop-down menu [1].

Read ECM using leftmost icon [2].

Click on VEHICLE tab.

Enter purchaser name in the CUSTOMER field.

Click on second icon of toolbar Write ECM to register new informations from MPI memory to ECM.

### Key Programming

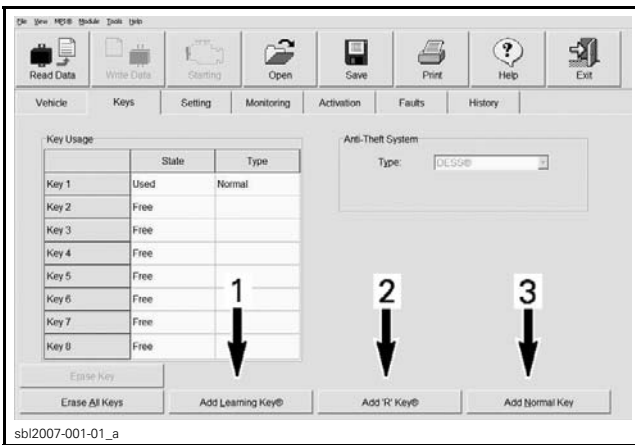
Refer to *SERVICE BULLETIN 2007-5* in regards to the 3 different lanyard options available on ALL 4-Tec's.

**NOTE:** Only 2 lanyards are shipped per watercraft. All models to the exception of the GTI R are shipped with Standard key and Learning key. The GTI R is shipped with the Standard key and the R key.

1. Click on KEYS tab.

- 1.1 If key to be added is a Learning key (white key), click on ADD LEARNING KEK button on bottom of screen.
- 1.2 If key to be added is a R key (orange key), click on ADD R KEY button on bottom of screen.
- 1.3 If key to be added is a Normal key (yellow key), click on ADD NORMAL KEY button on bottom of screen.





1. ADD LEARNING KEY
2. ADD R KEY
3. ADD NORMAL KEY

2. Install key on MPI or DESS Post Interface.

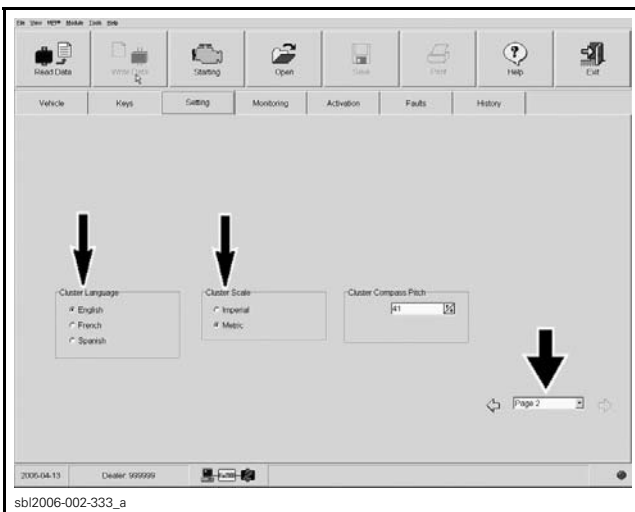
A new key is now saved in the ECM.

Ensure to save new data in ECM using WRITE DATA button.

**NOTICE** Ensure to program keys as per bulletin 2007-5.

### Cluster Language / Scale Settings

1. In B.U.D.S., select "Settings", then "Page 2" to choose cluster language and scale settings (speedometer in miles or kilometers).



### Ending a B.U.D.S. Session

1. Click on FAULT tab and check if there are active faults.
2. If so, service watercraft then clear the faults in B.U.D.S.

**NOTICE** After a problem has been solved, ensure to clear fault(s) in ECM. This will properly reset appropriate counter(s).

3. Click on WRITE DATA button to transfer new settings and information.
4. Click on EXIT button (rightmost) to end session.
5. Ensure to reinstall cap over the communication connector.

### Fuel

1. Verify fuel line connectors prior to powering-up ECM. This verification must be done visually as well as manually by physically checking each connection.

**WARNING**  
Never add fuel prior to checking fuel line connector tightness.

### Adding Fuel

At predelivery, we suggest dealers to fill fuel tank with recommended fuel type as described in SPECIFICATIONS TABLE.

**NOTICE** Never add oil in fuel. Never use fuel containing more than 10% alcohol (ethanol or methanol).

**WARNING**  
Fuel is flammable and explosive under certain conditions. Always work in a well ventilated area.

### Fuel System Pressurization

**WARNING**  
A pressure test must be done before starting engine.

For fuel system pressure test procedure, refer to appropriate SHOP MANUAL.

It might be necessary to remove and install safety lanyard 2 or 3 times to initially feed fuel system.

**NOTE:** This procedure should be explained to purchaser at delivery.

### Engine Oil Level

**NOTE:** Engine is factory filled with oil. Verify oil level using following procedure:



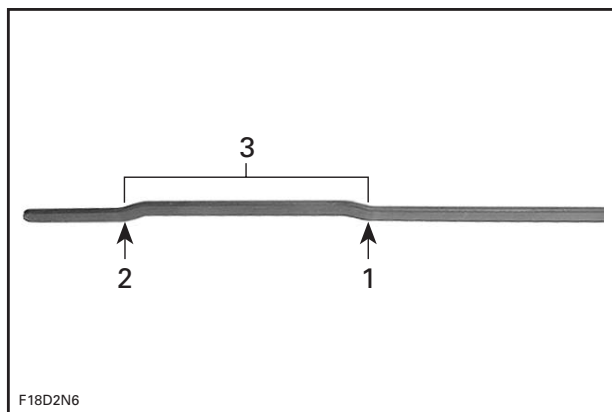
**NOTICE** If watercraft is not in water, make sure to cool engine using flush kit, otherwise, engine, drive line and/or exhaust system may be severely damaged. Refer to FLUSHING in the *(OPERATOR'S GUIDE)* and follow procedure.

When using flush kit, never run engine for more than 5 minutes; drive line seal has no cooling when watercraft is out of water; severe damage may occur.

1. Warm-up engine then let idle for 30 seconds before stopping.
2. Stop engine.
3. Wait at least 30 seconds then pull dipstick out and wipe clean.

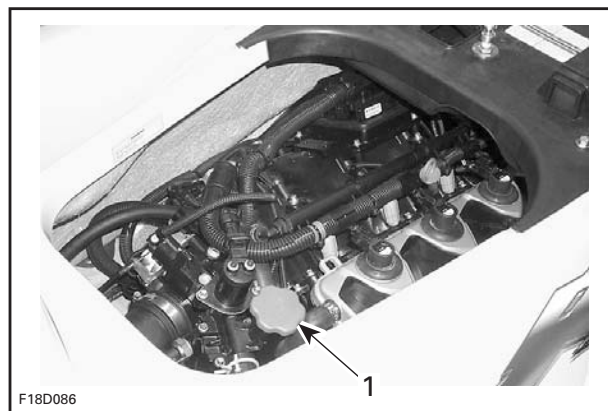
**CAUTION** Engine oil may be hot. Certain components in engine compartment may be very hot. Direct contact may result in skin burn.

4. Reinstall dipstick, push in completely.
5. Remove dipstick and read oil level. It should be between marks.
  - Mark [1] for FULL.
  - Mark [2] for ADD.



1. FULL
2. ADD
3. Operating range

6. To add oil, unscrew oil cap.



1. Oil cap

7. Place a funnel into opening and add recommended oil to proper level.

**NOTE:** Every time oil is added in engine, the complete procedure explained previously must be done (engine restarted, idling for 30 seconds, 30 seconds waiting time and then, rechecking the oil level). Otherwise, you will have a false oil level reading.

**NOTICE** Do not overfill

8. Properly reinstall oil cap and dipstick.

### Recommended Engine Oil

Use XPS SUMMER GRADE OIL (P/N 293 600 121).

#### *130 and 155 Engines*

If the XP-S engine oil is not available, use a 5W 40 engine oil meeting the requirements for API service classification SM, SL or SJ. Always check the API service label certification on the oil container, it must contain at least one of the above standards.

#### *215 and 255 Engines*

If XP-S engine oil is not available, use a 5W 40 engine oil compatible with wet clutches.

**NOTE:** The XP-S engine oil has been thoroughly tested to be free of any additives that could impair the functionality of the supercharger clutch.

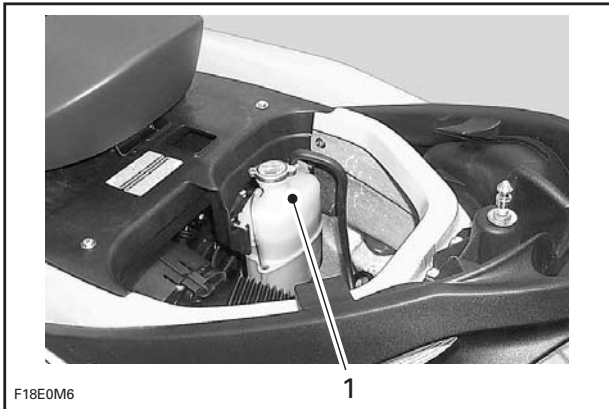
**NOTICE** Do not use an engine oil meeting the requirement for API service classification SM or SL. Using a lubricant not compatible with wet clutches will impair the proper operation of the supercharger clutch. Do not add any additives to the recommended oil.

## Engine Coolant Level

### **⚠ WARNING**

Check coolant level with engine cold. Never add coolant in cooling system when engine is hot.

1. Remove seat or seat extension to expose cooling system expansion tank.



F18E0M6

1. Expansion tank

2. With vehicle on a level surface, liquid should be between MIN. and MAX. level marks of coolant reservoir when engine is cold.



F18E0N6

1. MIN. and MAX. level marks

**NOTE:** Watercraft is leveled when it is in water. When on a trailer, raise trailer tongue and block in this position when bumper rail is leveled.

3. Add coolant to have level between marks as required.

Use a funnel to avoid spillage.

**NOTE:** Use recommended coolant type as described in the Specifications table.

**NOTICE** Do not overfill.

4. Properly reinstall and tighten filler cap then reinstall seat.

## Recommended Engine Coolant

Always use ethylene-glycol antifreeze containing corrosion inhibitors specifically for internal combustion aluminum engines.

**NOTE:** When available, it is recommended to use biodegradable antifreeze compatible with internal combustion aluminum engines. This will contribute to protect the environment.

Cooling system must be filled with water and antifreeze solution (50% demineralized water, 50% antifreeze).

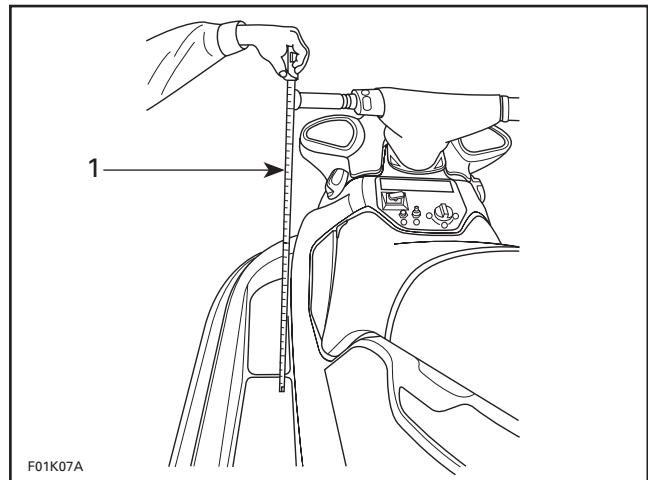
BRP sells premixed coolant with freezing protection up to  $-37^{\circ}\text{C}$  ( $-35^{\circ}\text{F}$ ) (P/N 293 600 038).

To prevent antifreeze deterioration, always use the same brand. Never mix different brands unless cooling system is completely flushed and refilled. Refer to an authorized Sea-Doo dealer.

## Steering Alignment

### Steering Alignment Verification

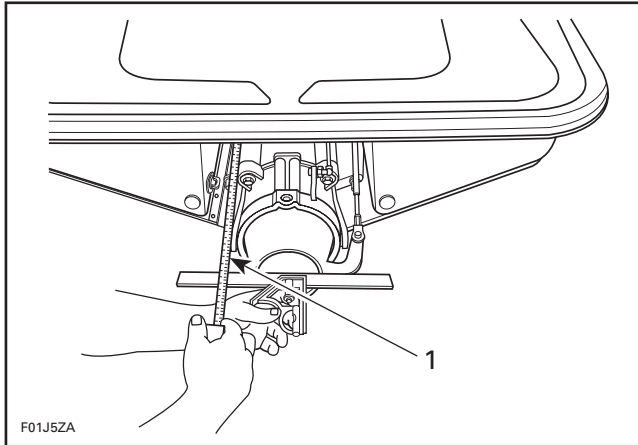
1. Position handlebar in straight ahead position by measuring each side the distance from handlebar grip end to floorboard.



F01K07A

1. Measuring distance

2. Check jet pump nozzle position by placing a straight edge on nozzle outer end.
3. Measure the distance on each side of the straight edge; it must be equal.



1. Measuring distance

4. If necessary, steering alignment adjustment should be performed at steering cable support.

## Steering Alignment Adjustment

### All Models except GTI Series

1. Open storage compartment cover and remove basket.

### RXP

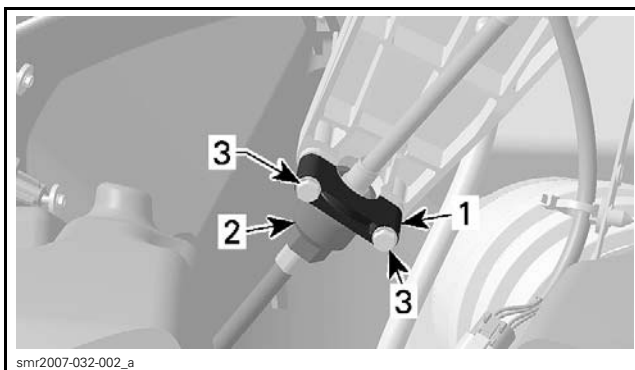
1. Remove front vent tube to allow room.

### GTI Series

1. Remove the glove box.

### All Models

2. Loosen bolts securing the retaining block at the bottom of cable support.
3. Turn adjustment nut as required.



1. Block
2. Adjustment nut
3. Bolts

4. After adjustment, torque retaining block bolts to 6 N•m (53 lbf•in).

**NOTICE** Verify when the handlebar is turned completely to the left or right side, that there is no interference with venturi, O.P.A.S. or VTS ring.

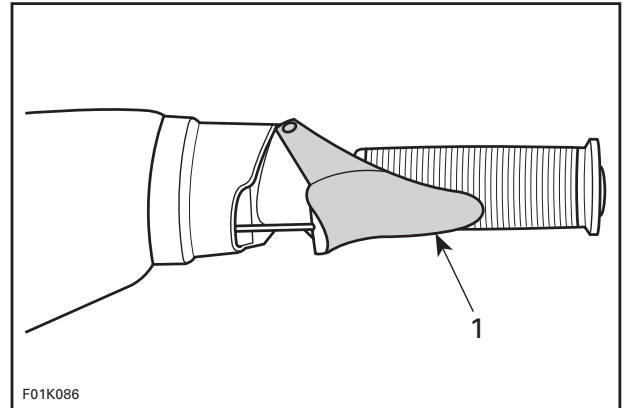
## O.P.A.S.™ System Alignment

All adjustments have already been performed at factory. If readjustments are needed, check O.P.A.S. system alignment procedure in appropriate *SHOP MANUAL*.

## Throttle Cable Adjustment

Verify adjustment of throttle cable as follows.

1. Throttle lever must reach handlebar grip without causing strain to cable or cable bracket.

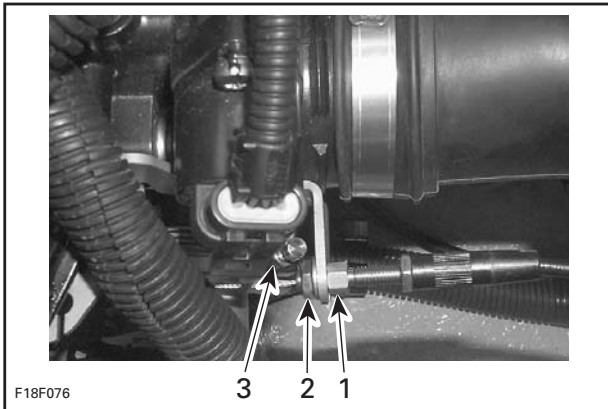


1. Throttle lever

2. With throttle lever in full throttle position, throttle lever stopper should almost contact throttle body.
3. To verify that there is free play, apply a light pressure on throttle plate(s), a slight play should be obtained.
4. With throttle lever released, it must have a free play of 1 - 3 mm (0.04 - 0.120 in) in cable.

**NOTICE** Improper cable adjustment will cause strain on cable and/or damage cable bracket or throttle lever at handlebar.

To adjust throttle cable, loosen jam nut then turn adjustment nut as necessary.



1. Adjustment nut
2. Jam nut
3. Idle speed screw

### **⚠ WARNING**

Make sure idle speed screw contacts throttle cam when throttle lever is fully released at handlebar.

**NOTICE** Never attempt to adjust idle speed through throttle body tamper proof screw. If so, it would impair idle speed stability. Besides, no adjustment could be performed by dealer nor factory to correct idle speed. Throttle body would need to be replaced. Also take into account that it might change engine emission level and engine might not meet EPA/CARB requirements.

For more informations on throttle cable adjustment, refer to appropriate Sea-Doo *SHOP MANUAL*.

## Protective Films Removal

Protective film on all decals must be removed.

1. Slowly peel off protective films.

## Final Inspection

1. Complete *PREDELIVERY CHECK LIST* following all instructions.
2. Test ride watercraft.

## Watercraft Cleaning

1. Clean watercraft.

**NOTICE** Clean apparent fiberglass and plastic parts with a clean cloth and soapy water or isopropyl alcohol. Never use strong detergent, degreasing agent, paint thinner, acetone, etc. Do not apply isopropyl alcohol directly on decals.

# DELIVERY TO CUSTOMER

## Vehicle Delivery

1. Where possible, give a brief demo ride and explain watercraft operation.
2. Explain, complete and return WARRANTY REGISTRATION CARD (legal requirement).
3. Customer must sign *PREDELIVERY CHECK LIST*.
4. Give to customer:
  - Operator's guide
  - Safety DVD
  - Copy of the *PREDELIVERY CHECK LIST*.

## Fuel System

Explain to customer that it might be necessary to remove and install safety lanyard 2 or 3 times to initially feed fuel system.

## Handlebar Tag

A tag is tied to handlebar. Leave it there until delivery and make sure customer reads it.

## Break-In Period

Explain to customer that with Sea-Doo watercraft powered by Rotax® engines, a break-in period of 10 hours is required before continuous operation at full throttle.

To achieve a good break-in, vary engine speed every few minutes with brief wide open throttle accelerations of up to 15 seconds.

**NOTICE** Continued wide open throttle runs and prolonged cruising without speed variations should be avoided, this can cause engine damage during break-in period.

## Accessories

On some models, accessories, such as wakeboard rack, ballast tanks kit, etc., must be installed prior to delivering vehicle. Refer to appropriate *OPERATOR'S MANUAL* for complete installation procedure.

# SPECIFICATIONS

## GTI Models

VEHICLE		GTI 130	GTI SE 130	GTI SE 155
<b>ENGINE</b>				
Type		Rotax® 4-TEC®. Single Over Head Camshaft (SOHC)		
		130 hp	130 hp	155 hp
Number of cylinder		3		
Number of valve		12 valves (4 per cylinder) with hydraulic lifters (no adjustment)		
Displacement		1494 cc (91 cu. in)		
Intake system		Type Naturally aspirated		
		Throttle body 52 mm		
Bore		100 mm (3.9 in)		
Stroke		63.4 mm (2-1/2 in)		
Compression ratio		10.6:1		
Cooling		Closed-loop system		
<b>ELECTRICAL SYSTEM</b>				
Ignition		Digital inductive		
Starter		Electric		
Battery		12 V, 30 A•h. Electrolyte type		
Spark plug		Make and type NGK, DCPR8E		
		Gap 0.75 mm (.030 in)		
<b>PROPULSION</b>				
Propulsion system		Sea-Doo® direct drive		
Jet pump		Type Axial flow, single stage. Large hub with 10-vane stator		
		Material aluminum		
Transmission		Direct drive, forward/neutral/reverse		
Impeller		Stainless steel		
<b>DIMENSIONS AND WEIGHT</b>				
Length		322.5 cm (127 in)		
Width		124.5 cm (49 in)		
Height		117 cm (45.9 in)		
Weight (dry)		332 kg (732 lb)	338.8 kg (747 lb)	338.8 kg (747 lb)
Rider capacity (refer to load limit)		1, 2 or 3		
Storage capacity		46.8 L (12.4 U.S. gal)		
Load limit (passengers + luggage)		273 kg (600 lb)		
<b>FLUIDS</b>				
Fuel		Type Unleaded		
		Minimum octane (87 (RON + MON)/2)		
		Tank capacity 60 L (15.9 U.S. gal)		
Engine oil		Type XP-S summer grade.		
		Capacity 3 L (2.7 U.S. qt) oil change w/filter 4.5 L (4.1 U.S. qt) total		
Cooling system		Coolant type Ethylene-glycol 50%/50% antifreeze/demineralized water. Coolant containing corrosion inhibitors for internal combustion aluminum engines		
		Capacity 5.5 L (5 U.S. qt) total		

## GTX Models

VEHICLE		GTX 155	GTX 215
<b>ENGINE</b>			
Type		Rotax® 4-TEC®. Single Over Head Camshaft (SOHC)	
		155 hp	215 hp
Number of cylinder		3	
Number of valve		12 valves (4 per cylinder) with hydraulic lifters (no adjustment)	
Displacement		1494 cc (91 cu. in)	
Intake system	Type	Naturally aspirated	Supercharged with intercooler
	Throttle body	52 mm	
Bore		100 mm (3.9 in)	
Stroke		63.4 mm (2-1/2 in)	
Compression ratio		10.6:1	8.4:1
Cooling		Closed-loop system	
<b>ELECTRICAL SYSTEM</b>			
Ignition		Digital inductive	
Starter		Electric	
Battery		12 V, 30 A•h. Electrolyte type	
Spark plug	Make and type	NGK, DCPR8E	
	Gap	0.75 mm (.030 in)	
<b>PROPULSION</b>			
Propulsion system		Sea-Doo® direct drive	
Jet pump	Type	Axial flow, single stage. Large hub with 10-vane stator	
	Material	Aluminum	
Transmission		Direct drive, forward/neutral/reverse	
Impeller		Stainless steel	
<b>DIMENSIONS AND WEIGHT</b>			
Length		331 cm (130.3 in)	
Width		122 cm (48 in)	
Height		120 cm (47.2 in)	
Weight (dry)		361 kg (795 lb)	366 kg (805 lb)
Rider capacity (refer to load limit)		1, 2 or 3	
Storage capacity		129.8 L (34.3 U.S. gal)	
Load limit (passengers + luggage)		273 kg (600 lb)	
<b>FLUIDS</b>			
Fuel	Type	Unleaded	
	Minimum octane	(87 (RON + MON)/2)	(91 (RON + MON)/2)
	Tank capacity	60 L (15.9 U.S. gal)	
Engine oil	Type	XP-S summer grade.	
	Capacity	3 L (2.7 U.S. qt) oil change w/filter 4.5 L (4.1 U.S. qt) total	
Cooling system	Coolant type	Ethylene-glycol 50%/50% antifreeze/demineralized water. Coolant containing corrosion inhibitors for internal combustion aluminum engines	
	Capacity	5.5 L (5 U.S. qt) total	

## RXP Models

VEHICLE		RXP 215	RXP-X 255
<b>ENGINE</b>			
Type		Rotax® 4-TEC®. Single Over Head Camshaft (SOHC)	
		215 hp	255 hp
Number of cylinder		3	
Number of valve		12 valves (4 per cylinder) with hydraulic lifters (no adjustment)	
Displacement		1494 cc (91 cu. in)	
Intake system	Type	Supercharged with intercooler	Supercharged with external intercooler
	Throttle body	52 mm	
Bore		100 mm (3.9 in)	
Stroke		63.4 mm (2-1/2 in)	
Compression ratio		8.4:1	
Cooling		Closed-loop system	
<b>ELECTRICAL SYSTEM</b>			
Ignition		Digital inductive	
Starter		Electric	
Battery		12 V, 30 A•h. Electrolyte type	
Spark plug	Make and type	NGK, DCPR8E	
	Gap	0.75 mm (.030 in)	
<b>PROPULSION</b>			
Propulsion system		Sea-Doo® direct drive	
Jet pump	Type	Axial flow, single stage. Large hub with 10-vane stator	
	Material	Aluminum	
Transmission	Type	Direct drive, forward/neutral/reverse	
	VTS	Electric	
Impeller		Stainless steel	
<b>DIMENSIONS AND WEIGHT</b>			
Length		307 cm (121 in)	
Width		122 cm (48 in)	
Height		118 cm (46.6 in)	116 cm (45.8 in)
Weight (dry)		359 kg (792 lb)	361 kg (795 lb)
Rider capacity (refer to load limit)		1 or 2	
Storage capacity		40.3 L (10.7 U.S. gal)	
Load limit (passengers + luggage)		181 kg (399 lb)	
<b>FLUIDS</b>			
Fuel	Type	Unleaded	
	Minimum octane	(91 (RON + MON)/2)	
	Tank capacity	60 L (15.9 U.S. gal)	
Engine oil	Type	XP-S summer grade.	
	Capacity	3 L (2.7 U.S. qt) oil change w/filter 4.5 L (4.1 U.S. qt) total	
Cooling system	Coolant type	Ethylene-glycol 50%/50% antifreeze/demineralized water. Coolant containing corrosion inhibitors for internal combustion aluminum engines	
	Capacity	5.5 L (5 U.S. qt) total	



**RXT Models**

VEHICLE		RXT 215	RXT-X 255
<b>ENGINE</b>			
Type		Rotax® 4-TEC®. Single Over Head Camshaft (SOHC)	
		215 hp	255 hp
Number of cylinder		3	
Number of valve		12 valves (4 per cylinder) with hydraulic lifters (no adjustment)	
Displacement		1494 cc (91 cu. in)	
Intake system	Type	Supercharged with intercooler	Supercharged with external intercooler
	Throttle body	52 mm	
Bore		100 mm (3.9 in)	
Stroke		63.4 mm (2-1/2 in)	
Compression ratio		8.4:1	
Cooling		Closed-loop system	
<b>ELECTRICAL SYSTEM</b>			
Ignition		Digital inductive	
Starter		Electric	
Battery		12 V, 30 A•h. Electrolyte type	
Spark plug	Make and type	NGK, DCPR8E	
	Gap	0.75 mm (.030 in)	
<b>PROPULSION</b>			
Propulsion system		Sea-Doo® direct drive	
Jet pump	Type	Axial flow, single stage. Large hub with 10-vane stator	
	Material	Aluminum	
Transmission	Type	Direct drive, forward/neutral/reverse	
	VTS	—	Electric
Impeller		Stainless steel	
<b>DIMENSIONS AND WEIGHT</b>			
Length		331 cm (130 in)	
Width		122 cm (48 in)	
Height		120 cm (47.2 in)	118 cm (46.5 in)
Weight (dry)		370 kg (815 lb)	372 kg (818 lb)
Rider capacity (refer to load limit)		1, 2 or 3	
Storage capacity		129.8 L (34.3 U.S. gal)	123 L (32.5 U.S. gal)
Load limit (passengers + luggage)		273 kg (600 lb)	
<b>FLUIDS</b>			
Fuel	Type	Unleaded	
	Minimum octane	(91 (RON + MON)/2)	
	Tank capacity	60 L (15.9 U.S. gal)	
Engine oil	Type	XP-S summer grade.	
	Capacity	3 L (2.7 U.S. qt) oil change w/filter 4.5 L (4.1 U.S. qt) total	
Cooling system	Coolant type	Ethylene-glycol 50%/50% antifreeze/demineralized water. Coolant containing corrosion inhibitors for internal combustion aluminum engines	
	Capacity	5.5 L (5 U.S. qt) total	

## Wake Models

VEHICLE		WAKE 155	WAKE PRO 215
<b>ENGINE</b>			
Type		Rotax® 4-TEC®. Single Over Head Camshaft (SOHC)	
		155 hp	215 hp
Number of cylinder		3	
Number of valve		12 valves (4 per cylinder) with hydraulic lifters (no adjustment)	
Displacement		1494 cc (91 cu. in)	
Intake system	Type	Naturally aspirated	Supercharged with intercooler
	Throttle body	52 mm	
Bore		100 mm (3.9 in)	
Stroke		63.4 mm (2-1/2 in)	
Compression ratio		10.6:1	8.4:1
Cooling		Closed-loop system	
<b>ELECTRICAL SYSTEM</b>			
Ignition		Digital inductive	
Starter		Electric	
Battery		12 V, 30 A•h. Electrolyte type	
Spark plug	Make and type	NGK, DCPR8E	
	Gap	0.75 mm (.030 in)	
<b>PROPULSION</b>			
Propulsion system		Sea-Doo® direct drive	
Jet pump	Type	Axial flow, single stage. Large hub with 10-vane stator	
	Material	Aluminum	
Transmission	Type	Direct drive, forward/neutral/reverse	
	VTS	Electric	
Impeller		Stainless steel	
<b>DIMENSIONS AND WEIGHT</b>			
Length		323 cm (127 in)	331 cm (130.3 in)
Width		125 cm (49 in)	122 cm (48 in)
Height		117 cm (45.9 in)	120 cm (47.2 in)
Weight (dry)		339 kg (748 lb)	388 kg (853 lb)
Rider capacity (refer to load limit)		1, 2 or 3	
Storage capacity		46.8 L (12.4 U.S. gal)	129.8 L (34.3 U.S. gal)
Load limit (passengers + luggage)		273 kg (600 lb)	
<b>FLUIDS</b>			
Fuel	Type	Unleaded	
	Minimum octane	(87 (RON + MON)/2)	(91 (RON + MON)/2)
	Tank capacity	60 L (15.9 U.S. gal)	
Engine oil	Type	XP-S summer grade.	
	Capacity	3 L (2.7 U.S. qt) oil change w/filter 4.5 L (4.1 U.S. qt) total	
Cooling system	Coolant type	Ethylene-glycol 50%/50% antifreeze/demineralized water. Coolant containing corrosion inhibitors for internal combustion aluminum engines	
	Capacity	5.5 L (5 U.S. qt) total	