

# Operator's Guide 2020 Includes Safety, Vehicle and Maintenance Information



# **A** WARNING

Read this guide thoroughly. It contains important safety information. Minimum recommended operator's age: 16 years old. Keeo this Operator's Guide in the watercraft.

# WARNING

Disregarding any of the safety precautions and instructions contained in this Operator's Guide, SAFETY VIDEO and on-product safety labels could cause injury including the possibility of death!

# WARNING

When carrying load on the rear platform of the watercraft or onto cargo accessories, reduce your speed and adapt your driving behavior to reduce the risk of ejection from watercraft or contact with cargo possibly leading to injuries. Never carry loads when a skier or wakeboarder is in tow, serious injury or death can result.

CALIFORNIA PROPOSITION 65 WARNING

# WARNING

Operating, servicing and maintaining a recreational marine vessel can expose you to chemicals including engine exhaust, carbon monoxide, phthalates and lead, which are known to the state of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, service your vessel in a well-ventilated area and wear gloves or wash your hands frequently when servicing this vessel.



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# **FOREWORD**

# **OPERATOR'S GUIDE 2020**

GTI 90 GTI 130 GTI SE 130 GTI SE 170 GTR 230 Wake 170

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Congratulations on your purchase of a new Sea-Doo® personal watercraft (PWC). It is backed by the BRP warranty and a network of authorized Sea-Doo personal watercraft dealers ready to provide the parts, service or accessories you may require.

Your dealer is committed to your satisfaction. He has taken training to perform the initial setup and inspection of your watercraft as well as completed the final adjustment before you took possession. If you need more complete servicing information, please ask your dealer.

At delivery, you were also informed of the warranty coverage and signed the PREDELIVERY CHECK LIST to ensure your new watercraft was prepared to your entire satisfaction.

# **Know Before you Go**

To learn how to reduce the risk for you or other persons being injured or killed, read the following sections before you operate the watercraft:

- SAFETY INFORMATION
- WATERCRAFT INFORMATION.

Read and understand all safety labels on your watercraft and watch attentively your *SAFETY VIDEO* located at https://www.sea-doo.com/safety.



Failure to follow the warnings contained in this Operators' Guide can result in serious injury or death.

BRP highly recommends that you take a safe boating course. Please check with your dealer or local authorities for availability in your area.

In certain areas, an operator competency card is mandatory to operate a pleasure craft.

# A WARNING

Get familiar with this PWC; it may exceed the performance of other PWCs you have ridden.

# **Safety Messages**

This Operator's Guide utilizes the following symbols and words to emphasize particular information:

The safety alert symbol  $ext{ } ext{ } ext{$ 

# WARNING

Indicates a potential hazard which, if not avoided, could result in serious injury or death.

**CAUTION** Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

**NOTICE** Indicates an instruction which, if not followed, could severely damage watercraft components or other property.

# About this Operator's Guide

This Operator's Guide has been prepared to acquaint the owner/operator or passenger with this personal watercraft and its various controls, maintenance and safe riding instructions.

Keep this Operator's Guide in the watercraft as you can refer to it for operation, instructing others, maintenance and troubleshooting.

Note that this guide is available in several languages. In the event of any discrepancy, the English version shall prevail.

If you want to view and/or print an extra copy of your Operator's Guide, simply visit the following website www.operatorsguides.brp.com.

The informations 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, some differences between the manufactured product and the descriptions and/or specifications in this guide may occur. BRP reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring any obligation upon itself.

This Operator's Guide should remain with the watercraft when it's sold.

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# SAFETY INFORMATION

## **GENERAL PRECAUTIONS**

# Avoid Carbon Monoxide Poisoning

All engine exhaust contains carbon monoxide, a deadly gas. Breathing carbon monoxide can cause headaches, dizziness, drowsiness, nausea, confusion and eventually death.

Carbon monoxide is a colorless, odorless, tasteless gas that may be present even if you do not see or smell any engine exhaust. Deadly levels of carbon monoxide can collect rapidly, and you can quickly be overcome and unable to save yourself. Also, deadly levels of carbon monoxide can linger for hours or days in enclosed or poorly ventilated areas. If you experience any symptoms of carbon monoxide poisoning, leave the area immediately, get fresh air and seek medical treatment.

To prevent serious injury or death from carbon monoxide:

- Never run the watercraft in poorly ventilated or partially enclosed areas such as boat houses, seawalls or other boats in close proximity. Even if you try to ventilate engine exhaust, carbon monoxide can rapidly reach dangerous levels.
- Never run the watercraft outdoors where engine exhaust can be drawn into a building through openings such as windows and doors.
- Never stand behind the watercraft while the engine is running. A person standing behind a running engine may inhale high concentrations of exhaust fumes. Inhalation of concentrated exhaust fumes that contain carbon monoxide can result in CO poisoning, serious health problems and death.

# Avoid Gasoline Fires and Other Hazards

Gasoline is extremely flammable and highly explosive. Fuel vapors can spread and be ignited by a spark or flame many feet away from the engine. To reduce the risk of fire or explosion, follow these instructions:

- Use only an approved red gasoline container to store fuel.
- Strictly adhere to the instructions in FUELING section.
- Never start watercraft if gasoline or gasoline vapor odors is present in the engine compartment.
- Never start or operate the engine if the fuel cap is not properly secured.
- Do not carry gasoline containers in the front storage compartment.
- Use only a BRP approved LinQ fuel caddy, which should be properly installed and secured. Never tow a skier or wakeboarder while having a fuel caddy installed. Never refill the fuel caddy on the PWC refill on shore.

Gasoline is poisonous and can cause injury or death.

- Never siphon gasoline with your mouth.
- If you swallow gasoline, get any in your eyes, or inhale gasoline vapors, see a doctor immediately.

If gasoline is spilled on you, wash thoroughly with soap and water and change your clothes.

# **Avoid Burns from Hot Parts**

Certain components may become hot during operation. Avoid contact during and shortly after operation to avoid burns.

# Accessories and Modifications

Do not make unauthorized modifications, or use accessories that are not approved by BRP. Since these changes have not been tested by BRP, they may increase the risk of accidents or injuries, and they can make the watercraft illegal for use on water.

See your authorized Sea-Doo dealer for available accessories for your watercraft.

SAFETY INFORMATION \_\_\_\_\_

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# SPECIAL SAFETY MESSAGES

# Reminders Regarding Safe Operation

The performance of this watercraft may significantly exceed that of other watercrafts you may have operated. Make sure you read and understand the content of this Operator's Guide to become completely familiar with the controls and operation of the watercraft before embarking on your first trip, or taking on a passenger(s). If you have not had the opportunity to do so, practice driving solo in a suitable traffic free area to become accustomed to the feel and response of each control. Be fully familiar with all controls before accelerating above idle speed. Do not assume that all PWCs handle identically. Each model differs, often substantially.

Always keep in mind that as the throttle lever is returned to the idle position, less directional control is available. To turn the watercraft, both steering and throttle are necessary. Do not release the throttle when trying to steer away from objects. You need throttle to steer. If engine is shut off, directional control is lost.

Although most watercrafts have no means of braking, advancement in technologies now permit us to offer models that are equipped with a braking system called the iBR<sup>TM</sup> system. Practice braking maneuvers in a safe traffic-free area to become familiar with handling under braking and with stopping distances under various operating conditions.

Stopping distance will vary depending on initial speed, load, wind, number of riders and water conditions. The amount of braking power commanded by the operator using the iBR lever (intelligent Brake and Reverse) will also affect stopping distance.

When braking, riders must brace themselves against the deceleration force to prevent from moving forward on the watercraft and losing balance.

When operating an iBR equipped watercraft, be aware that other boats following or operating in close proximity may not be able to stop as quickly.

When at speed and the brake is first applied, a plume of water will shoot up in the air behind the watercraft which may cause the operator of a following watercraft to momentarily loose sight of your PWC. It is important to inform the operator of a watercraft who intends to follow in a convoy formation, of the braking and maneuvering capability of your PWC, what the plume of water indicates, and that a greater distance should be maintained between watercrafts.

When actuating the iBR control lever while the watercraft has some forward speed, the braking mode will engage and generate a deceleration proportional to the iBR lever position. The more you pull in the iBR lever, the greater the braking force becomes. Be careful to gradually actuate the iBR lever to adjust the intensity of the braking force, and to simultaneously release the throttle lever.

Keep the tether cord clip attached to the operators' PFD or wrist (wrist strap required) at all times and keep it free from snagging on the handlebars to help ensure the engine stops should the operator fall off. After riding, remove the tether cord from the engine cut-off switch to avoid unauthorized use by children or others. If the operator falls off the watercraft and the tether cord is not attached as recommended, the watercraft engine will not stop.

Ride within your limits and level of riding ability.

Avoid aggressive maneuvers to reduce the risk of loss of control, ejection and collision. Understand and respect the performance of your watercraft. Avoid riding in very rough waters or practicing extreme maneuvers like jumping wakes or waves.

The brake feature of the iBR system cannot prevent your PWC from drifting due to current or wind. It has no braking effect on the rearward velocity. Also note that your engine must be running to be able to use the brake.

The personal watercrafts' jet thrust can cause injury. The jet pump may pick up debris and throw it rearward causing a risk of injuring people, damaging the jet pump, or other property.

Observe the instructions on all safety labels. They are there to help assure that you have a safe and enjoyable outing.

Do not store any objects in areas that are not designed specifically for storage.

Do not transport cargo on the rear platform unless it is properly secured with a BRP LinQ certified accessory. Compatible accessories which are not BRP certified may not be considered as fit for this purpose.

Riding with passenger(s), pulling tubes, a skier, or a wake boarder makes the PWC handle differently and requires greater skill.

Certain PWC models come equipped with tow eyelets or a ski pylon (Wake only). The ski pylon can be used to attach a tow rope for a skier or wake boarder and the rear tow eyelets can be used to attach a tow rope for a tube. Do not use these attachment points or any other portion of the watercraft to tow a para-sail or any other craft. Personal injury or severe damage may occur.

Combustion engines need air to operate; consequently this PWC cannot be totally watertight. Any maneuvers such as turning constantly in tight circles, plunging the bow through waves, or capsizing the watercraft, that cause the air inlet openings to be under wa-

ter may cause severe engine problems due to water ingestion. Refer to *HOW TO STEER WATERCRAFT* in the *OP-ERATING INSTRUCTIONS* section and the *WARRANTY* section contained in this Operator's Guide.

Engine exhaust contains carbon monoxide (CO), which can cause serious health problems or death if inhaled in sufficient quantities. Do not operate the PWC in a confined area or allow CO to accumulate around the PWC, or in enclosed or sheltered areas such as when docked, or when rafting. Be aware of the risk of CO emanations from exhaust of other PWCs.

Know the waters in which the watercraft is to be operated. Current, tides, rapids, hidden obstacles, wakes and waves etc. can affect safe operation. It is not advisable to operate the watercraft in rough waters or inclement weather.

In shallow water, proceed with caution and at very low speeds. Grounding or abrupt stops may result in injury and watercraft damage. Debris may also be picked up and thrown rearward by the jet pump onto people or property.

Always ride responsibly and safely. Use common sense and courtesy.

Respect no wake zones, the environment, and the rights of other users of the waterways. As the operator and owner of a PWC, you are responsible for damage by the wake of your PWC. Do not let anyone throw refuse overboard.

While your watercraft has the capacity of operating at high speeds, it is strongly recommended that high speed operation only be applied when ideal conditions exist and are permitted. Higher speed operation requires a higher degree of skill and increases the risk of severe injuries.

The forces generated on the body of riders while turning, negotiating waves or wakes, operating in choppy waters,

or falling off the watercraft, especially at higher speeds, may cause injury including the possibility of broken bones or more serious bodily injuries. Remain flexible and avoid sharp turns.

PWCs are not designed for night-time operation.

#### **Before Getting Underway**

For safety reasons and proper care, always perform the pre-ride inspection as specified in your Operator's Guide before operating your watercraft.

Do not exceed the payload or passenger capacities for your watercraft. Overloading can affect maneuverability, stability and performance. Also, heavy seas reduce capacity. A payload or person capacity plate is not an excuse for failure to use common sense or good judgment.

Regularly inspect the PWC, hull, engine, safety equipment, and all other boating gear and keep them in safe operating condition.

Be sure you have the minimum required safety equipment, PFDs and any additional gear needed for your cruise.

Check that all lifesaving equipment, including fire extinguisher, are in safe operating condition and easily accessible. Show all passengers where this equipment is stored on the PWC, and make sure they know how to use it.

There are several classes of fire extinguishers, for marine application we recommend the use of a properly sized class 5 B:C.

Additionally, your fire extinguisher should be certified by ULC, UL or USCG. Taking proper care of your fire extinguisher is mandatory.

Often check if the fire extinguisher is loaded to its proper operating pressure and make sure that you and your guests know how to use it. Maintenance, repair and refilling must be carried out by qualified personnel in

accordance with the manufacturer's instructions. For monthly fire extinguisher maintenance, turn the fire extinguisher back and shake it vigorously to prevent the chemical in the fire extinguisher from hardening.

Always be cautious when manipulating the fire extinguisher. Pay attention not to damage the mechanism (nozzle, dial, handle, etc) when storing it on the PWC.

Keep an eye on the weather. Check local weather broadcasts before departure. Be alert to changing conditions.

Keep accurate and up-to-date charts of the boating area on board. Before getting underway, check water conditions in the planned boating area.

Ensure there is enough fuel on board for the planned trip. Always verify fuel level before use and during the ride. Apply the principle of 1/3 of the fuel to reach your destination, 1/3 to return, and keep 1/3 in reserve. Allow for changes due to adverse weather or other delays.

## **Operator and Passenger Awareness**

Read and understand all safety labels on the Sea-Doo PWC, the Operator's Guide, all other safety documents, and watch the *SAFETY VIDEO* before operating the PWC.

Respect applicable laws. Check local and federal boating laws applicable to the waterways where you intend to use your watercraft. Learn the local navigation rules. Know and understand the applicable navigation system (such as buoys and signs).

Remember that sun, wind, fatigue or illness may impair your judgement and reaction time.

Operation of this PWC by a person under 16 years of age, or a person with a disability that impairs vision, reaction time, judgment, or operation of the controls is NOT recommended.

Always properly use the tether cord when operating the watercraft and ensure that all passengers are familiar with its use.

Ensure that any operator and all passengers know how to swim and how to re-board the PWC from the water. Boarding in deep water can be strenuous. This is especially important when an accessory like a cooler is installed on the boarding platform. Practice in chest-deep water before operating or embarking your watercraft in deep water. Ensure that any operator and all passengers wear a PFD at all times and take extra precautions when boating.

Never turn handlebar while someone is near the rear of watercraft. Keep away from steering moving parts (nozzle, iBR gate, linkages, etc.).

Do not start the engine or operate the watercraft if anyone is in the water nearby, or near the rear of the watercraft.

Be aware of the iBR gate movement when starting the engine, shutting down the engine or using the iBR lever. Automatic movement of the gate may squeeze fingers or toes of people taking a hold on the back or your PWC.

The operator and passenger(s) should be properly seated and have a firm grip on a handhold before starting the watercraft, and at all times when the watercraft is in motion. All passenger(s) should be instructed to use the handholds provided, or to hold on to the waist of the person in front of them. Each passenger must be able to simultaneously place both feet firmly flat against each footwell when properly seated. When going over waves, passenger(s) may raise their body slightly off the seat to absorb the shocks with their legs.

When braking or decelerating, riders must brace themselves against the deceleration force to prevent from moving forward on the watercraft and losing balance.

When accelerating on a PWC with a passenger(s), whether from a complete stop or while underway, always do so progressively. Fast acceleration may cause your passenger(s) to loose their balance and fall rearward off the watercraft. Make sure that your passenger(s) are aware of or can anticipate any rapid acceleration.

Severe internal injuries can occur if water is forced into body cavities as a result of falling into water or being near a jet thrust nozzle. Consequently, the wear of a bottom wet suit is highly recommended.

Keep away from the intake grate while the engine is running. Items such as long hair, loose clothing, or PFD straps can become entangled in moving parts.

If the throttle lever is depressed while braking, the iBR system will disable the throttle command by the user. When releasing the iBR lever while the throttle lever is still depressed, the throttle command will regain control and generate an acceleration after a short delay. Release throttle lever if acceleration is not needed.

Before reboarding, make sure engine is off and tether cord is removed from the engine cut-off switch.

To prevent accidental starting, always detach the tether cord from the engine cut-off switch when swimmers are boarding, nearby, or during removal of any weeds or debris from the intake grate.

On a PWC, never place your feet and legs in the water to aid turning.

## Operation by Minors

Minors should always be supervised by an adult whenever operating a watercraft. Laws regarding the minimum age and licensing requirements of minors may vary from one jurisdiction to another. Be sure to contact the local boating authorities for information regarding the legal operation of a PWC in the intended jurisdiction of use. BRP recommends a minimum operator age of 16 years old.

#### **Drugs and Alcohol**

Never use your PWC with drugs or alcohol. Like driving a car, driving a watercraft requires the operator to be sober, attentive and alert. Operating a watercraft while intoxicated or under the influence of drugs is not only dangerous, but it is also a Federal offense carrying a significant penalty. These laws are vigorously enforced. The use of drugs and alcohol, singly or in combination, decreases reaction time, impedes judgment, impairs vision, and inhibits your ability to safely operate a watercraft.

# **A** WARNING

Alcohol consumption and boating do not mix! Operating with the use of drugs or alcohol endangers the lives of your passengers, other boaters, and yourself. Federal laws prohibit operating a watercraft with the use of drugs or alcohol.

# Water Sports (Towing with the Watercraft)

# WARNING

Avoid personal injury! Your PWC is not designed for and should not be used for pulling another craft, parasails, kites, gliders, or any device which can become airborne. Use your watercraft only for water sports it was designed for.

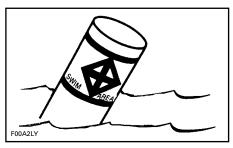
Water skiing, wakeboarding, or riding a towed inflatable apparatus are some of the more popular water sports. Taking part in any water sport requires increased safety awareness by the participant and the watercraft operator. If you have never towed someone behind your PWC before, it is a good idea

to spend some hours as an observer, working with and learning from an experienced operator. It is also important to be aware of the skill and experience of the person being towed.

Everyone participating in a water sport should observe these guidelines:

- Riding with passenger(s) or pulling a tube, skier or wakeboarder makes the watercraft handle differently and requires greater skill.
- Always respect the safety and comfort of your passenger(s) and person being towed on skis, wakeboard or other water products.
- Always carry an observer when pulling a tube, skier or wakeboarder to observe the person being towed and inform the operator about the participants' hand signals. The operator must focus his attention on operating the watercraft and the waters ahead.
- Proceed with only as much speed as required and follow the observers' instructions.
- When pulling a tube, skier, or a wake boarder, do not make tight sharp turns or use the braking system unless absolutely necessary. Remember that although this PWC is manoeuvrable and has stopping capabilities, the person in tow may not be able to avoid an obstacle, or the PWC with which it is being towed.
- Allow only capable swimmers to take part in any water sport.
- Always wear an approved personal flotation device (PFD). Wearing a properly designed PFD helps a stunned or unconscious person stay afloat.
- Be considerate to others you share the water with.

- Both the operator and observer should monitor the location of the tow rope when participating in watersports. A slack tow rope can become entangled with a person(s) or objects on the PWC or in the water, particularly when making a tight turn or circling, and cause serious personal injury.
- Do not tow a person in any water sport on a short tow rope such that the person inhales exhaust fumes in concentration. Inhalation of concentrated exhaust fumes, which contain carbon monoxide, can result in CO poisoning, personal injury and death.
- Use a tow rope of sufficient length and size and make sure it is adequately secured to your watercraft. Always store tow rope when not in use. While some watercrafts are equipped or can be fitted with a specially designed towing mechanism, avoid installing a tow pole on a PWC. It can become a hazard should someone fall on it.
- Give immediate attention to a person who has fallen. He or she is vulnerable in the water alone and may not be seen by other boaters.
- Approach a person in the water from the lee side (opposite the direction of the wind). Turn off the motor before coming close to the person.
- Participate in water sports only in safe areas. Stay away from other boats, channels, beaches, restricted areas, swimmers, and heavily traveled waterways and underwater obstructions.
- Turn off the engine and anchor the watercraft before swimming.
- Swim only in areas designated as safe for swimming. These are usually marked with a swim area buoy. Do not swim alone or at night.



#### SWIM AREA BUOY

- Do not water ski between sunset and sunrise. It is illegal in most areas.
- Do not drive the watercraft directly behind a water skier, tuber or wakeboarder. At 40 km/h (25 MPH) per hour, the watercraft will overtake a person who falls in the water 60 m (197 ft) in front of your watercraft in about 5 seconds.
- Shut off the engine and remove the tether cord from the engine cut-off switch when anyone is in the water nearby.
- Stay at least 45 m (148 ft) away from areas marked by a diver down float.

Avoid personal injury! Do not allow anyone near the propulsion system or intake grate, even when the engine is off. Items such as long hair, loose clothing or personal flotation device straps can become entangled in moving parts resulting in serious injury or drowning. In shallow water, shells, sand, pebbles or other objects could be drawn up by the jet pump and be thrown rearward.



DIVER DOWN FLOAT

For more information on approved, legal and safe practice of water sports, please contact the local legal authority on water sports safety for the area you plan to practice in.

# Hypothermia

Hypothermia, the loss of body heat resulting in a subnormal body temperature, is a significant cause of death in boating accidents. After an individual has succumbed to hypothermia, he or she will lose consciousness and then drown.

PFDs can increase survival time because of the insulation they provide.

Naturally, the warmer the water, the less insulation one will require. When operating in cold water (below 4°C (40°F)) consideration should be given to using a coat or jacket style PFD as they cover more body area than the vest style PFDs.

Some points to remember about hypothermia protection:

- While afloat in the water, do not attempt to swim unless it is to reach a nearby boat, fellow survivor, or a floating object onto which you can lean or climb. Unnecessary swimming increases the rate of body heat loss. In cold water, drown-proof methods that require putting your head in the water are not recommended. Keep your head out of the water. This will greatly lessen heat loss and increase your survival time.
- Maintain a positive attitude about your survival and rescue. This will improve your chances of extending your survival time until you can be rescued. Your will to live does make a difference!
- If there is more than one person in the water, huddling together is recommended. This action tends to reduce the rate of heat loss and thus increase the survival time.
- Always wear your PFD. It won't help you fight off the effects of hypothermia if you don't have it on when you go into the water.

# Safe Boating Courses

Many countries recommend or require a boating safety course. Check with your local competent authorities.

Check local and federal boating laws applicable to the waterways where you intend to use your watercraft. Learn the local navigation rules. Know and understand the applicable navigation system (such as buoys and signs).

# **Carrying Loads**

When carrying load on the rear platform of the watercraft or onto cargo accessories, reduce your speed and adapt your driving behavior to reduce the risk of ejection from watercraft or contact with cargo possibly leading to injuries. Never carry loads on the rear platform when practicing watersports. The cargo may interfere with the rope and unsecure it, becoming an obstacle to the skier or wakeboarder.

Refer to SPECIFICATIONS for the maximum loading capacity.

# **A** WARNING

Do not transport cargo on the rear platform unless it is properly secured with a BRP LinQ certified accessory. When properly installed, the accessories will be solid and tight. "Rocking" side-to-side and front-to-rear the accessories will ensure they are properly attached. Compatible accessories which are not BRP certified may not be considered as fit for this purpose.

# **A** WARNING

Never carry loads when having a skier or wakeboarder in tow, serious injury or death can result.

# **ACTIVE TECHNOLOGIES (iCONTROL)**

#### Introduction

**NOTE:** Some functions or features described in this section may not apply to every PWC model, or may be available as an option.

iControl<sup>TM</sup> (intelligent Control systems) provides an environment whereby the operator can control many systems without taking his hands off the handlebars.

All controls are at the operator's finger tips and activated by pressing a button or pulling a lever. The operator's attention can thus remain focused on the water and driving the watercraft.

Each control is electronic and provides a command signal to an electronic module whose function is to assure proper operation of its system within set parameters.

The various systems grouped under iControl are the:

- iTC™ (intelligent Throttle Control)
- iBR (intelligent Brake and Reverse)

These systems function together to provide features such as cruise control, slow speed mode and braking, improved watercraft response to operator inputs, increased maneuverability and control.

It is extremely important for operators to read all information contained in this Operator's Guide so as to become familiar with this watercraft, its systems, controls, capabilities and limitations.

# iTC (intelligent Throttle Control)

The system uses an electronic throttle control (ETC) that provides command signals to the ECM (Engine Control Module). With this system, there is no need for a traditional throttle cable.

The iTC allows the following operating modes:

- Default riding mode
- Sport mode

- ECO mode
- Speed Limiter mode (if equipped)
- Slow speed mode (if equipped)
- Ski mode (if equipped).

#### **Default riding Mode**

In Default riding mode, available engine power and acceleration is reduced when accelerating from a complete stop and when operating in the low engine power range under certain conditions.

#### **ECO Mode**

When ECO mode is selected, the engine RPM is limited and the throttle response is optimized for fuel economy. This mode is ideal when cruising and maximum fuel efficiency is desired.

Refer to *OPERATING MODES* for detailed instructions.

#### Sport Mode

In sport mode, maximum engine power is available throughout the engine operational range.

Refer to *OPERATING MODES* for detailed instructions.

## Speed Limiter Mode (if equipped)

Speed Limiter mode allows the operator to set a desired maximum speed of the watercraft when operating above 15 km/h (9 MPH).

Speed Limiter mode limits watercraft speed but does not maintain it. The operator must hold the throttle lever depressed to maintain forward speed, unlike an automotive type cruise control which maintains a constant speed while throttle pedal is released.

As you proceed under a constant cruising speed setting, hold the throttle lever fully depressed in order to keep your full attention to maintaining good situational awareness.

Refer to *SPEED LIMITER MODE* in *OP-ERATING MODES* for detailed instructions.

#### Slow Speed Mode (if equipped)

Slow speed mode is a function which allows the operator to adjust and set idle speed corresponding to a watercraft speed of approximately 1.6 km/h to 11 km/h (1 MPH to 7 MPH). The throttle lever should not be depressed while operating in slow speed mode.

Refer to *OPERATING MODES* for detailed instructions.

#### Ski Mode (if equipped)

Ski mode allows for a controlled launch and accurately maintained maximum towing speed when towing a skier or wake boarder.

Refer to *OPERATING MODES* for detailed instructions.

#### Learning Key

The Sea-Doo LK<sup>TM</sup> learning key limits the speed of the watercraft therefore enabling first time users and less experienced operators to learn how to operate the watercraft while gaining the necessary confidence and control.

#### Limitations

The ability of a novice to operate the watercraft can be exceeded even when a learning key is used.

Refer to 7.6 DIGITAL DISPLAY for information on using and programming learning keys.

# iBR (intelligent Brake and Reverse System)

This watercraft uses an electronically controlled braking and reverse system called the iBR system (intelligent Brake and Reverse).

The iBR module controls the position of the iBR gate to provide forward thrust, reverse thrust, braking thrust, and neutral.

The operator commands the position of the iBR gate using either the throttle lever for forward thrust, or the iBR lever for neutral, reverse, and for the braking function.

**NOTE:** The iBR lever can only be used to command a change in the gate position if the engine is running.

Using the iBR system significantly reduces the stopping distance of this watercraft and can increase its maneuverability as it can be used in a straight line, in a turn, at high or low speeds, or to propel the watercraft in reverse for docking or maneuvering in very close quarters.

Under ideal conditions, experienced operators were consistently able to reduce, the stopping distance of a watercraft equipped with an iBR system by approximately 33%, from an initial speed of 80 km/h (50 MPH).

#### Limitations

Even when equipped with an iBR system, watercrafts do not have the ability of land based vehicles.

Stopping distance will vary notably depending on initial speed, load, wind, current, water conditions and the amount of braking.

The iBR system has no effect on the rearward motion.

It cannot prevent your watercraft from drifting in current or wind.

# **A** WARNING

- It is important to inform the operator of a watercraft who intends to follow in a convoy formation, of the braking and maneuvering capability of your PWC, what the plume of water indicates, and that a greater distance must be maintained between watercraft.
- Be aware that other boats following or operating in close proximity may not be able to stop as quickly.

## SAFETY EQUIPMENT

# Required Safety Equipment

The operator and the passenger(s) must wear an approved Personal Flotation Device (PDF) that is suitable for PWC use.

Operator and passenger(s) should have ready access to shatterproof glasses should riding conditions or personal preference warrant.

Wind, water spray, bugs and speed may cause a person's eyes to water and create blurred vision.

As the owner of the watercraft, you are responsible for assuring that all required safety equipment is aboard. You should also consider supplying additional equipment as needed for your safety and that of your passengers. Check state and local regulations about required safety equipment.

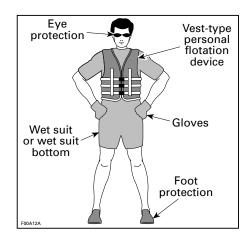
Safety equipment required by regulations is mandatory. If local regulations require additional equipment, it must be approved by a competent authority. Minimum requirements include the following:

- Personal flotation devices (PFDs)
- A buoyant heaving line of 15 m (50 ft) minimum
- A watertight flashlight or approved flares
- Signaling device
- Sound producing devices (air horn or whistle).

#### **Recommended Protection Gears**

The operator and passenger(s) of PWCs must wear protective gear, including:

- A wet suit bottom, or thick tightly woven and snug fitting clothing that provides equivalent protection. As an example, thin bike shorts would not be appropriate. Severe internal injuries can occur if water is forced into body cavities as a result of falling in the water or being near jet thrust nozzle. Normal swimwear does not adequately protect against forceful entry of water into the lower male or female body opening(s).
- Footwear, gloves, safety goggles or glasses are also recommended. Some type of lightweight, flexible foot protection is recommended. This will help reduce possible injury, should you step on sharp underwater objects.



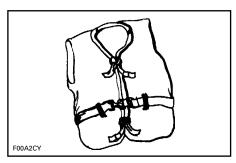
#### **Personal Flotation Devices (PFDs)**

Each person on a recreational watercraft must wear a personal flotation device (PFD) at all times. Ensure that these PFDs meet your country regulations. A PFD provides buoyancy to help keep the head and face above the water, and to help maintain a satisfactory body position while in the water. Body weight and age should be considered when selecting a PFD. The buoyancy provided by the PFD should support your weight in water. The size of the PFD should be appropriate for the wearer. Body weight and chest size are common methods used to size PFDs. It is your responsibility to ensure that you have the proper number and types of PFDs on board to comply with federal and local regulations, and that your passengers know where they are and how to use them.

#### PFD Types

There are five types of approved PFDs.

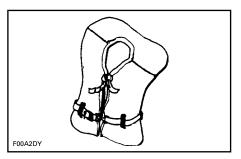
PFD Type I, Wearable, has the greatest required buoyancy. Its design allows for turning most unconscious persons in the water from face down position to a vertical or slightly backward, face-up position. It can greatly increase the chances of survival. Type I is most effective for all waters, especially offshore when rescue may be delayed. It is also the most effective in rough waters.



TYPE I — WEARABLE

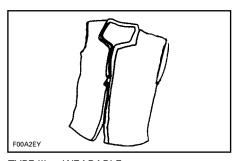
PFD Type II, Wearable, turns its wearer in the same way as Type I, but not as effectively. The Type II does not turn as many persons under the same conditions as a Type I. You may prefer to use this PFD where there is a prob-

ability of quick rescue such as in areas where other people are commonly involved in water activities.



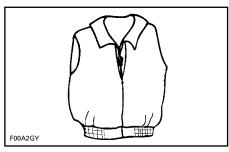
TYPE II — WEARABLE

PFD Type III, Wearable, allows wearers to place themselves in a vertical or slightly backward position. It does not turn the wearer. It maintains the wearer in a vertical or slightly backward position and has no tendency to turn the wearer face down. It has the same buoyancy as a Type II PFD and may be appropriate in areas where other people are commonly involved in water activities.



TYPE III — WEARABLE

PFD Type V, Wearable, must be worn. When inflated, it provides buoyancy equivalent to Type I, II or III PFDs. When it is deflated, however, it may not support some people.



TYPF V — WFARABI F

#### Helmets

#### Some Important Considerations

Helmets are designed to offer some degree of protection in case of impacts to the head. In most motorized sports, the benefits of wearing a helmet clearly outweigh the drawbacks. However, in the case of motorized watersports such as riding personal watercraft, this is not necessarily true as there are some particular risks associated with the water.

#### Benefits

A helmet helps to reduce the risk of injury in case of a head impact against a hard surface such as another craft in the case of a collision. Similarly, a helmet with a chin guard might help prevent injuries to the face, jaw or teeth.

#### Risks

On the other hand, in some situations when falling off the watercraft, helmets have a tendency to catch the water, like a "bucket", and put severe stresses on the neck or spine. This could result in choking, severe or permanent neck or spine injury or death.

Helmets may also interfere with peripheral vision and hearing, or increase fatigue which, could contribute to increase the risk of a collision.

#### Weighing the Risks vs Benefits

In order to decide whether or not you should wear a helmet, it is best to consider the particular environment you will be riding in, as well as other factors such as personal experience. Will there be a lot of traffic on the water? What is your riding style?

#### The Bottom Line

Since each option minimizes some risks, but increases others, before each ride you must decide whether to wear or not wear a helmet based on your particular situation.

If you decide to wear a helmet, you must then decide what type is the most appropriate for the circumstances. Look for helmets that meet DOT or Snell standards, and if possible, choose one designed for motorized watersports.

# Additional Recommended Equipment

It is recommended that you acquire additional equipment for safe, enjoyable cruising. This list, which is not all inclusive, includes items you should consider acquiring.

- Local map
- First aid kit
- Tow rope
- Flares
- Mooring cords.

A cellular telephone installed in the watertight compartment designed for this application has also been found to be beneficial to boaters when in distress or just for contacting someone on shore.

# PRACTICE EXERCISES

It is always a good idea to practice and get familiar with all controls, functions and handling characteristics of your watercraft before venturing on the water.

Always secure the tether cord to the engine cut-off switch and the clip to your PFD or a wrist strap.

# Where to Practice Exercises

Find a suitable area to practice the exercises. Ensure the area meet the following requirements:

- No traffic
- No obstacles
- No swimmers
- No current
- Ample space to maneuver
- Water depth is adequate.

#### **Practice Exercises**

Practice alone the following exercises.

#### **Turning**

Practice turning in circles in both directions at slow speed. When comfortable with the exercise, increase difficulty by making some figure 8.

When this is mastered, repeat the above exercises but at increased speed.

# **Stopping Distances**

Practice stopping the watercraft in a straight line at various speeds and braking force.

Remember that watercraft speed, load, water conditions, current and wind also affect stopping distances.

#### Reverse

Practice reverse operation to learn how the watercraft operates in reverse and reacts with steering inputs.

**NOTE:** Always perform this exercise at slow speeds.

#### **Avoiding an Obstacle**

Practice obstacle avoidance (choose a virtual point on the water) by steering watercraft and maintaining throttle.

Repeat exercise, but this time release throttle while turning.

Repeat exercise, but this time while applying iBR lever. Notice that the iBR system also takes control of the throttle.

**NOTE:** With this exercise, you will learn that you need throttle to steer the watercraft in a different direction.

#### **Docking**

Practice docking using the throttle, iBR lever and steering to become familiar with the response of the PWC and to develop good control skills.

**NOTE:** Remember that steering direction is reversed when backing.

#### Slow Speed Mode, Ski Mode and Speed Limiter Mode (if equipped)

If your watercraft has any of these modes, it is also important to understand their operation and to become familiar with these features prior to using them on a ride with other people.

# **A** WARNING

The ski and the speed limiter modes are not an automatic pilot; they will not drive the watercraft for you.

# Important Factors Not to Neglect

In addition, always remember that the following conditions have a direct impact on how your watercraft will behave and respond to different inputs:

- Loads
- Currents
- Wind
- Water conditions.

Make sure to be alert to these conditions, and adapt accordingly. If possible, practice further in these conditions.

For delicate maneuvers, the best advice is always to try to reduce your speed to a minimum.

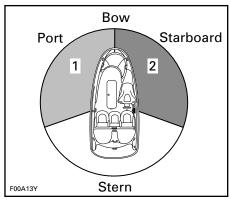
## **NAVIGATION RULES**

# **Operating Rules**

Operating a watercraft can be compared with driving on unmarked highways and roads. To prevent collisions or avoid other boaters, a system of operating rules must be followed. It's not only common sense, it's the law!

Generally keep to your right and safely avoid collisions by keeping a safe distance from other watercrafts, boats, people and objects.

The following illustration identifies different parts of the boat that are used as directional reference points, the bow being the front of the boat. The port side of boat (left side) is visually identifiable by a RED light off the bow, and the starboard side (right side) by a GREEN light.



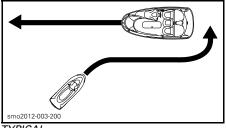
TYPICAL - DIRECTIONAL REFERENCE **POINTS** 

- 1. RED liaht
- 2. GREEN light (yield zone)

## Crossing

Give the right of way to a watercraft ahead and to your right. Never cross in front of a boat, you should see his RED light, he should see your GREEN light (he has the right of way).

Personal watercrafts (PWC) do not have these colored lights, but the rule still applies.



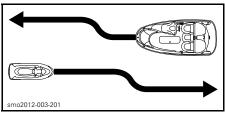
TYPICAL

Like a street traffic light, if you see a RED light, STOP, give the right of way. The other boat is to your right and it has the right of way.

If you see a **GREEN** light, **pass with** caution. The other boat is to your left, you have the right of way.

#### Meeting Head-On

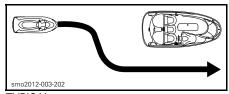
Keep right.



TYPICAL

#### **Passing**

Give the right of way to other crafts and keep clear.



TYPICAL

#### Navigation System

Navigational aids, such as signs or buoys, can assist you in identifying safe waters. Buoys will indicate whether you should keep to the right (starboard) or to the left (port) of the

buoy, or to which channel you can continue. They may also indicate whether you are entering a restricted or controlled area such as a no wake or low speed zone. They may also indicate hazards or pertinent boating information. Markers may be located on shore or on the water. They can also indicate speed limits, no power craft or boating, anchorage and other useful information. (The shape of each type of marker will provide assistance).

Make sure you know and understand the navigation system applicable to the waterways where you intend to use the watercraft.

#### Collision Avoidance

Do not release the throttle when trying to steer away from an obstacle. Engine power and jet pump thrust is required to steer the watercraft.

Always keep a constant lookout for other water users, other boats or objects, especially when turning. Be alert for conditions that may limit your visibility or block your vision of others.

Respect the rights of other recreationists and/or bystanders and always keep a safe distance from all other watercrafts, boats, people and objects.

Do not wake or wave jump, ride the surf line or attempt to spray or splash others with your watercraft. You may misjudge the ability of the watercraft or your own riding skills and strike a boat or person.

This watercraft has the capability of turning more sharply than other boats, however, unless in an emergency, do not negotiate sharp, high speed turns. Such maneuvers make it hard for others to avoid you or understand where you are going. Also, you and/or your passenger(s) could be thrown from the watercraft.

Unlike most other watercrafts, this PWC has a braking system (iBR).

When operating an iBR equipped watercraft, be aware that other boats following or operating in close proximity may not be able to stop as quickly.

When at speed and the brake is first applied, a plume of water will shoot up in the air behind the watercraft indicating a braking manoeuvre.

It is important to inform the operator of a watercraft who intends to follow in a convoy formation of the braking and maneuvering capability of your PWC, what the plume of water indicates, and that a greater distance should be maintained between both of you.

Stopping distance will vary depending on initial speed, load, wind and water conditions.

Although the preferable manoeuvre to avoid an obstacle is to steer away while applying throttle, the iBR can also be used by fully braking and turning in the direction to avoid the obstacle.

## **FUELING**

# **Fueling Procedure**

# **A** WARNING

Fuel is flammable and explosive under certain conditions. Always work in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity.

Turn off engine.

# **A** WARNING

Always stop the engine before refueling.

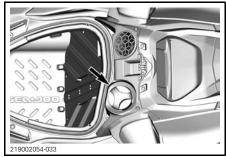
Do not allow anyone to remain on the watercraft.

Tie watercraft securely to the fueling pier.

Have a fire extinguisher close at hand.

Open the front storage compartment cover.

Locate fuel tank cap.



FUFAL TANK CAP LOCATION

Remove fuel cap.

# **A** WARNING

Fuel tank may be pressurized, place one hand over the fuel cap when releasing the cap retaining latch.

Insert the gas pump spout into the filler neck and fill the fuel tank.

# **A** WARNING

To prevent fuel back-flow, fill tank slowly so the air can escape from the fuel tank.

Stop filling immediately after the release of the gas pump nozzle handle and wait a moment before removing the spout. Do not retract the gas pump nozzle to put more fuel in fuel tank.

## WARNING

Do not overfill or top off the fuel tank and leave the watercraft in the sun. As temperature increases, fuel expands and may overflow.

Close the fuel tank cap and ensure it is properly latched.

# **A** WARNING

Always wipe off any fuel spillage from the watercraft.

After refueling always remove the seat and ensure there is no gasoline vapor odor inside the engine compartment.

# **A** WARNING

Do not start watercraft if gasoline or gasoline vapor odor is present.

Even though the ski pylon hole cover looks like a fuel cap, it is **not** designed to receive fuel.

# **A** WARNING

Never put gasoline in ski pylon hole, it is not connected in any way to the fuel system.

## **Fuel Requirements**

**NOTICE** Always use fresh gasoline. Gasoline will oxidize; the result is loss of octane, volatile compounds, and the production of gum and varnish deposits which can damage the fuel system.

Alcohol fuel blending varies by country and region. Your vehicle has been designed to operate using the recommended fuels, however, be aware of the following:

- Use of fuel containing alcohol above the percentage specified by government regulations is not recommended and can result in the following problems in the fuel system components:
  - Starting and operating difficulties.
  - Deterioration of rubber or plastic parts.
  - Corrosion of metal parts.
  - Damage to internal engine parts.
- Inspect frequently for the presence of fuel leaks or other fuel system abnormalities if you suspect the presence of alcohol in gasoline exceeds the current government regulations.
- Alcohol blended fuels attract and hold moisture which may lead to fuel phase separation and can result in engine performance problems or engine damage.

#### Recommended Fuel

Use unleaded gasoline containing MA-XIMUM 10% ethanol. The gasoline must have the following minimum octane requirements:

Use common unleaded gasoline with an AKI (RON+MON)/2 octane rating of 87, or an RON octane rating of 91.



**NOTICE** Never experiment with other fuels. Engine or fuel system damages may occur with the use of an inadequate fuel.

**NOTICE** Do NOT use fuel from fuel pumps labeled E85.

Use of fuel labeled E15 is prohibited by U.S. EPA Regulations.

# TRAILERING INFORMATION

**NOTICE** The span of the trailer wood bunks including bunk width should be adjusted to provide support throughout the full length of the hull. The ends of both trailer wood bunks should not exceed the length of the watercraft.

Ensure the trailer wheels are positioned so that the center of gravity of the watercraft is slightly ahead of the wheels to properly support the weight of the watercraft.

# WARNING

Never tip this watercraft on end for transporting. We recommend that you carry the watercraft in its normal operating position.

Check the applicable laws and regulations in your area concerning towing a trailer, especially for the following items:

- Brake system
- Tow vehicle weight
- Mirrors.

Take the following precautions when towing the watercraft:

- Respect tow vehicle maximum weight capacity and the tongue weight capacity as recommended by manufacturer.
- Tie the watercraft to both front and rear (bow/stern) eyelets so that it is firmly secured on the trailer. Use additional tie-downs if necessary.
- Ensure fuel tank cap, front storage compartment cover, glove box cover, boarding platform and seat are properly latched.
- Observe trailering safety precautions

**NOTICE** Do not route ropes or tie-downs over the seat or grab handle as they could be permanently damaged. Wrap ropes or tie-downs with rags or similar protectors where they can come into contact with the watercraft body.

# WARNING

Make sure seat is securely latched prior to trailering.

A Sea-Doo cover can protect the watercraft, particularly when driving on dirt roads, to prevent dirt entry through the air inlet openings.

## **A** WARNING

When trailering the watercraft, NEVER leave any equipment on the watercraft.

#### WAKE Model

# **A** WARNING

NEVER leave a wakeboard installed on the rack. Otherwise, wake board fin(s) could cause injury to bystanders or wakeboard could fly off on the road.

# **A** WARNING

Bungee cords are under tension and could spring back and whip someone when released. Use caution.

**NOTE:** When trailering 2 watercrafts, it may be necessary to remove the inner wakeboard rack.

# **IMPORTANT ON-PRODUCT LABELS**

## **Hang Tag**

This PWC comes with hang tags and labels containing important safety information.

Any person who rides this vehicle should read and understand this information before riding.

















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he Star Label means Cleaner Marine Engines

his engine has been certified as:

The Symbol for Cleaner Marine Engines:

For a healthier lifestyle and environment Cleaner Air and Water

Burns up to 30-40 percent less gas and oil than conventional carbureted two-stroke engines, saving money and ressources. Fuel Economy Better

-onger

Emission Warranty
Protects consumer for worry free operation

One Star-Low emission

The one-star label identifies personal watercraft, outboard, sterndrive and inboard engines that meet the Air Resources Board's Personal

Watercraft and Outboard marine engine 2001 exhaust emission standards. Engines meeting these standards have 75% lower emissions than conventional carbureted two-stroke engines. These engines are equivalent to the U.S. FPA's 2006 standards for marine engines.

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Two Stars-Very Low emission The two-star label identifies personal watercraft, outboard, sterndrive and inboard engines that meet the Air

Resources Board's Personal Watercraft and Outboard marine engine 2004 exhaust emission standards. Engines meeting these standards have 20% lower emissions than One Star - Low-Emission engines.



Three Stars-Ultra Low emission The three-star label identifies engines that meet the Air Resources Board's Personal Watercraft and Outboard

marine engine 2008 exhaust emission standards or the Sterndrive and Inboard marine engine 2003 exhaust emission standards. Engines meeting these standards have 65% lower emissions than One Star - Low Emission engines.



Four Stars-Super Ultra Low emission

The four-star label identifies engines that meet the Air Resources Board's

Sterndrive and Inboard marine engine 2009 exhaust emission standards. Personal Watercraft and Outboard marine engines may also comply with these standards. Engines meeting these standards have 90% lower emissions than One Star - Low

BOMBARDIER RECREATIONAL PRODUCTS INC. VALCOURT, QUÉBEC, CANADA ner Watercraft - Get the facts 1-800-END-SMOG www.arb.ca.gov

♠ WARNING. Operating, servicing and maintaining a recreational marine vessel can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, service your vessel in a well-ventilated area and wear gloves or wash your hands frequently when servicing this vessel.



For more information go to www.P65warnings.ca.gov/products/marine

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EN-219905280-DEC

#### Watercraft Safety Labels

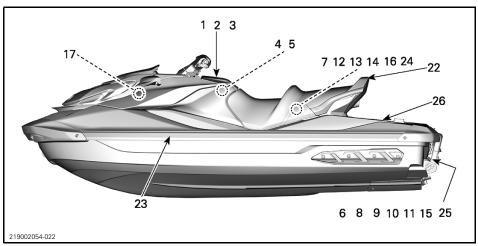
These labels are affixed to the vehicle for the safety of the operator, passengers or bystanders

The labels illustrated on the following pages are on your watercraft. If missing or damaged, they can be replaced free of charge. See an authorized Sea-Doo dealer.

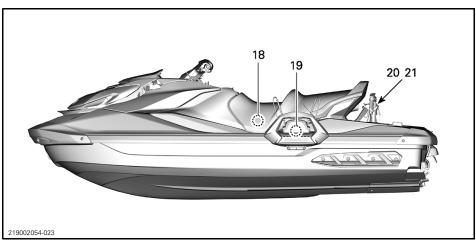
Please read the following labels carefully before operating this watercraft.

**NOTE:** The first illustration of the watercraft indicates the approximate locations of the various labels. A dotted line indicates that the label is not on the outer surface, and that the seat or a cover of some type must be opened to see the label.

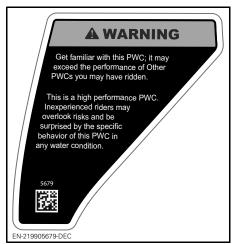
**NOTE:** In the event of any discrepancy between this guide and the vehicle, the safety labels on the vehicle have precedence over the labels in this guide.



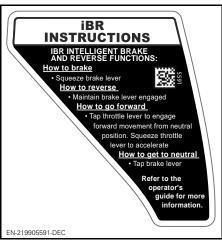
ALL MODELS EXCEPT WAKE



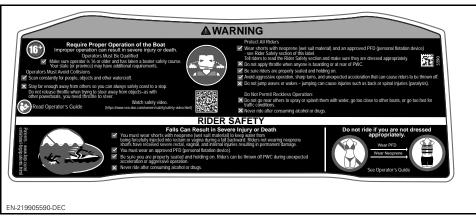
WAKE SPECIFIC



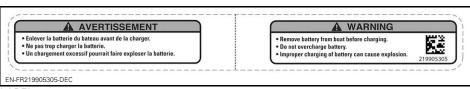
LABEL 1



LABEL 2



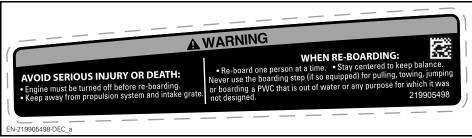
#### LABEL 3



#### LABEL 4



LABEL 5



LABEL 6



LABEL 7: TYPICAL



LABEL 8



LABEL 9



LABEL 10



LABEL 11



LABEL 12

# WARNING

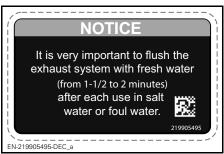
Never carry passengers on rear platform, always use the rear seat to carry passengers.



LABEL 13



I ABFI 14



LABEL 15 - GTR MODELS



LABEL 16



LABEL 17

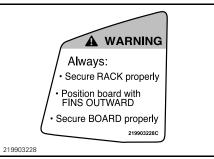
#### NOTICE

- To comply with noise regulations, this engine is designed to operate with an air intake silencer.
- Operation without air intake silencer or with one not properly installed may cause engine damage.

21990311

219903177

#### LABEL 18



LABEL 19 - WAKE MODELS ONLY



LABEL 20 - WAKE MODELS ONLY



LABEL 21 - WAKE MODELS ONLY

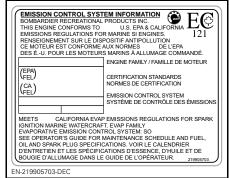


LABEL 22

### **Compliance Labels**



LABEL 23

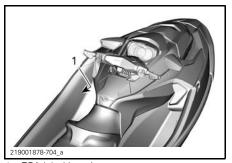


LABEL 24 - APPLICABLE FOR ALL MODELS IN CANADA AND UNITED STATES, APPLICABLE FOR MODELS EVERYWHERE EXCEPT CANADA AND UNITED STATES WHEN EQUIVALENT TO A MODEL CERTIFIED TO US. EPA STANDARDS



I ARFI 25

The EPA compliance label is located on the LH side, near the footrest.



1. EPA label location

#### Watercraft Inside North-America

#### CANADIAN COMPLIANCE NOTICE AVIS DE CONFORMITÉ CANADIEN MAXIMUM RECOMMENDED SAFE LIMITS

MAXIMUM RECOMMENDED SAFE LIMITS
LIMITES MAXIMALES DE
SÉCURITÉ RECOMMANDÉES

мах.¶=Х

XX kg lbs/lb

Max. + [ ] :

(X kg

#### CATEGORY / CATÉGORIE: C

MAXIMUM WAVE / VAGUE MAXIMALE 2.0 m

MAXIMUM WIND SPEED /

VITESSE DE VENT MAXIMALE 33.0 knots/noeuds

BOMBARDIER RECREATIONAL PRODUCTS INC. VALCOURT, QUÉBEC, CANADA (YDV) MODEL / MODÈLE: XXXXX

THE MANUFACTURER DECLARES THAT THIS PRODUCT COMPLIES WITH THE CONSTRUCTION REQUIREMENTS OF THE SMALL VESSEL REGULATION, AS THEY READ ON THE DAY ON WHICH THE CONSTRUCTION OF THE VESSEL WAS STARTED OR ON THE DAY ON WHICH THE VESSEL WAS IMPORTED.

IF FABRICANT ATTESTS OF IMPORTED.

LE FABRICANT ATTESTE QUE CE PRODUIT EST CONFORME AUX EXIGENCES DE CONSTRUCTION DU RÉGLEMENT SUR LES PETITS BÂTIMENTS EN VIGUEUR À LA DATE DU DÉBUT DE SA CONSTRUCTION OU DE SON IMPORTATION.

# MAXIMUM CAPACITIES ABOVE INFORMATION ALSO

ABOVE INFORMATION ALS APPLIES IN THE U.S.A. CAN ICES-2 / NMB-2"

EN-219904650-DEC

#### Watercraft Outside North America

#### CANADIAN COMPLIANCE NOTICE AVIS DE CONFORMITÉ CANADIEN

MAXIMUM RECOMMENDED SAFE LIMITS LIMITES MAX. DE SÉCURITÉ RECOMMANDÉES

Max. T = X XX kg lb

CATEGORY / CATÉGORIE: C

MAXIMUM WAVE / VAGUE MAXIMALE 2.0 m MAXIMUM WIND SPEED / VITESSE DE VENT MAXIMALE 33.0 knots/noeuds

BOMBARDIER RECREATIONAL PRODUCTS INC. 570 Montagne, Valcourt, Qc, CA, JOE 2LO Skaldenstraat 125, Gent, 9042, BE (YDV)

MODEL / MODÈLE: XXXXX

BRF

THE MANUFACTURER DECLARES THAT THIS PRODUCT COMPLIES WITH THE CONSTRUCTION REQUIREMENTS OF THE SMALL VESSEL REGULATIONS, AS THEY READ ON THE DAY ON WHICH THE CONSTRUCTION OF THE VESSEL WAS STARTED OR ON THE DAY ON WHICH THE VESSEL WAS IMPORTED. / LE FABRICANT ATTESTE QUE CE PRODUIT EST CONFORME AUX EXPLORACES DE CONSTRUCTION DAY LEGGLEMENT SUB IS SEPTIT RATIME

LE FABRICANT ATTESTE QUE CE PRODUIT EST CONFORME AUX EXIGENCES DE CONSTRUCTION DU RÉGLEMENT SUR LES PETITS BÂTIMENTS EN VIGUEUR À LA DATE DU DÉBUT DE SA CONSTRUCTION OU DE SON IMPORTATION.

MAXIMUM CAPACITIES ABOVE INFORMATION ALSO APPLIES IN THE U.S.A.



EN-219904853-DEC



LOCATED NEAR GAS CAP

#### **Molded Safety Pictogram**

# **A** WARNING

Never put gasoline in ski pylon hole. Gasoline is extremely flammable and highly explosive. Fuel vapors can spread and be ignited by a spark or flame many feets away.



NEAR SKI PYLON HOLE

### PRE-RIDE INSPECTION

We encourage you to have an Annual Safety Inspection of your vehicle. Please contact an authorized BRP dealer for further details. Though not required, it is recommended that an authorized BRP dealer performs the preseason preparation of your vehicle. Each visit to your authorized BRP dealer is a great opportunity for your dealer to verify if your vehicle is included in any safety campaign. We also urge you to visit your authorized BRP dealer in a timely manner if you become aware of any safety related campaigns.

# **A** WARNING

Perform a pre-ride inspection before each ride to detect potential problems during operation. The pre-ride inspection can help you monitor wear and deterioration before they become a problem. Correct any problems that you discover to reduce the risk of a breakdown or crash.

Before performing the pre-ride inspection, read and understand the *CONTROLS* section.

# What to Do Before Launching the Watercraft

# **A** WARNING

Engine should be off and the tether cord cap should always be removed from the engine cut-off switch prior to verifying any of the following points. Only start watercraft once all items have been checked and operate properly.

**NOTE:** Before starting the engine and taking off, it is recommended to shake vertically the rear of the watercraft to shake away any sand that may have accumulated near the propulsion and reverse systems.

Check the items listed in the following table before launching the watercraft.

ITEM	OPERATION	1
Hull	Inspect hull, ride plate and water inlet grate for damages	
Jet pump water intake	Inspect/clean	
Drain plugs	Tighten	
Fuel tank	Refill	
Engine compartment	Check for any visible fluid leaks and gasoline vapor odor	
Engine oil level	Check/refill	
Engine coolant level	Check/refill	
Steering system	Check operation	

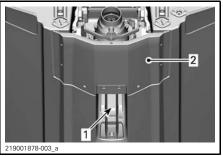
ITEM	OPERATION	1
iTC lever	Check operation. (Depress and release the lever to check for freedom of movement. If any friction is felt, the lever must be taken apart, cleaned, inspected for wear and lubricated)	
iBR lever	Check operation. (Depress and release the lever to check for freedom of movement. If any friction is felt, the lever must be taken apart, cleaned, inspected for wear and lubricated)	
Front storage compartment cover, glove box and seat	Ensure they are closed and latched.	
Wakeboard rack (WAKE model)	<ul> <li>Ensure rack is properly installed and secured.</li> <li>Make sure bungee cords are in good condition.</li> <li>Ensure wakeboard is correctly installed in rack and secured.</li> </ul>	
Ski/wakeboard pylon (WAKE model)	Inspect and check operation.	
Engine START/STOP button	Check operation	
Engine cut-off switch and the monitoring beeper	Check operation	
Battery condition and connections	Check every month	
Sacrificial anodes	Inspect every month (more often in saltwater use) and change if necessary	

#### Hull

Inspect hull for cracks and other damages.

#### **Jet Pump Water Intake**

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

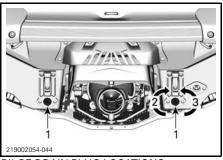


INSPECT THESE AREAS

- 1. Water intake
- 2. Ride plate

#### **Drain Plugs**

Secure bilge drain plugs.



BILGE DRAIN PLUG LOCATIONS

- 1. Bilge drain plugs
- 2. Tighten
- 3. Untiahten

# WARNING

Ensure bilge drain plugs are properly secured prior to launching the watercraft in water.

#### **Fuel Tank**

Fill the fuel tank.

# **A** WARNING

Strictly adhere to instructions detailed in *FUELING PROCEDURE*.

#### **Engine Compartment**

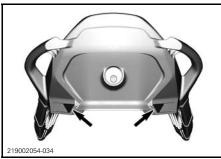
Inspect the engine compartment for fuel vapor odor.

# WARNING

Should any leak or gasoline odor be present, do not apply electrical power or start the engine. You should seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the *US EPA EMISSIONS-RELATED WAR-RANTY* contained herein for information about warranty claims.

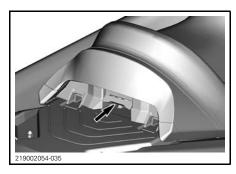
To access the engine compartment, remove the seats

To remove the seats, push on the two release buttons and lift the back end of the seat.



RELEASE BUTTONS

Then pull the latch handle up and remove the seat from the watercraft.



#### **Engine Oil**

Ensure oil level is within specification as described in *MAINTENANCE PRO-CEDURES* section.

#### **Engine Coolant**

Ensure coolant level is within specification as described in *MAINTENANCE PROCEDURES* section.

Check for coolant leaks on engine, in bilge and from ride plate.

**CAUTION** When operating the engine with the watercraft out of the water, the engine and heat exchanger in the ride plate may become very hot. Avoid any contact with hot engine parts and the ride plate as burns may occur.

#### Steering System

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 and in the same direction as the handlebar (e.g.: when handlebar is turned to the left, the nozzle opening must point towards the LH side of watercraft).

# **A** WARNING

Check handlebar and corresponding steering nozzle operation before starting. Never turn handlebar while someone is near the rear of the watercraft. Keep away from steering moving parts (nozzle, iBR gate, linkages etc.).

#### Throttle Lever

Check the Electronic Throttle Control lever (ETC) for free and smooth operation. It should return to its initial position immediately after it is released.

# WARNING

Check throttle lever operation before starting the engine. If any friction is felt in the throttle lever, refer to an authorized Sea-Doo dealer.

#### iBR Lever

Check the iBR lever for free and smooth operation. It should return to its initial position immediately after it is released.

# WARNING

Check iBR lever operation before starting the engine. If any friction is felt in the iBR lever, refer to an authorized Sea-Doo dealer.

# Storage Compartments, Boarding Platform and Seat

Ensure the glove box, boarding platform, access panels, and seat are closed and latched.

### **A** WARNING

Ensure the seat, boarding platform, access panels, and all storage compartment covers are securely latched.

#### Wakeboard Rack (WAKE model)

# **A** WARNING

Ensure wakeboard rack is properly secured to watercraft body, and that the wakeboard is properly positioned and secured to the rack prior to using watercraft. Ensure wakeboard retaining straps are in good condition.

# Ski/Wakeboard Pylon (WAKE model)

Make sure ski/wakeboard pylon is fully extended and locked before use.

Completely retract and lock when not used.

# WARNING

When using the ski pylon, never carry cargo or accessories on the boarding platform.

# **A** WARNING

Use caution with skier/wakeboarder in tow as tow rope may backlash to watercraft when released. Never perform a sharp turn when towing a skier, wakeboarder or any toy. Always store tow rope when not in use.

**NOTICE** The ski/wakeboard pylon is designed for towing a skier or wakeboarder with a maximum weight of 114 kg (250 lb).

**CAUTION** Never use the ski pylon to tow an inflatable tube. Always use the rear cleat for towing an inflatable tube.

# Engine Cut-Off Switch and Engine START/STOP Button

Press the start button once without installing the tether cordon the engine cut-off switch.

Install the tether cord cap on the enaine cut-off switch.

Press the START/STOP button to start the engine, then stop it by pressing the START/STOP button a second time.

Restart the engine, then stop it by removing the tether cord from the engine cut-off switch.

### **A** WARNING

Should the tether cord cap be loose or fail to remain on the engine cut-off switch, replace the tether cord immediately in order to avoid unsafe use. If removing the tether cord cap from the engine cut-off switch or pressing the START/STOP button does not stop the engine, do not use the watercraft. See your authorized Sea-Doo dealer.

### What to Do After Launching the Watercraft

Check the items listed in the following table after launching the watercraft and before going for a ride.

ITEM	OPERATION	1
Information Center	Check operation.	
Intelligent Brake and Reverse System (iBR)	Check operation.	
Variable Trim System (VTS)	Check operation.	

### Information Center (Gauge)

- Press START/STOP button and install tether cord on the engine cut-off switch.
- 2. As the information center cycles through its self-test function, ensure all indications come on.

# **A** WARNING

Always attach the tether cord clip to your PFD or to the wrist (wrist strap required).

#### iBR System

**NOTICE** Ensure there is sufficient space ahead and behind watercraft to safely carry out the iBR system test to avoid a collision. Watercraft will move during test.

- 1. Remove the moorings lines securing the watercraft to the dock.
- 2. Start the engine and ensure the watercraft does not move.
- On the left handlebar, depress the iBR lever completely in, the watercraft should move slowly backwards.
- 4. Release the iBR lever, there should not be any reverse thrust.

# **A** WARNING

Always ensure proper iBR system operation before taking the water-craft out for a ride.

# Variable Trim System (VTS) (if equipped)

With the engine running in forward thrust, use the VTS<sup>TM</sup> system to move the jet pump nozzle up, and then down alternately to check VTS operation. Confirm the VTS position indicator movement in the information center.

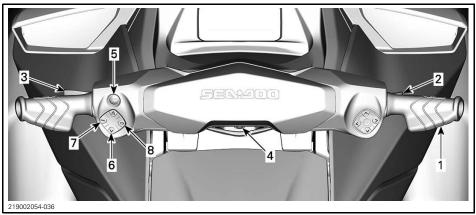
Also test the VTS preset trim positions by double clicking the VTS UP/DOWN button (as applicable to model).

Refer to *OPERATING INSTRUCTIONS* for detailed instructions.

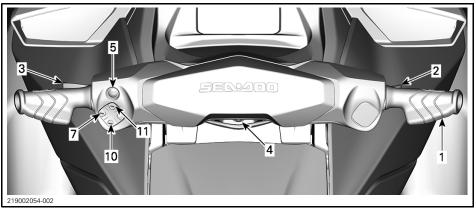
# **WATERCRAFT INFORMATION**

# **CONTROLS**

**NOTE:** Some vehicle safety labels are not shown on illustrations. For information on vehicle safety labels, refer to *WATERCRAFT SAFETY LABELS*.



TYPICAL - 2 KEYPADS



TYPICAL - 1 KEYPAD

<b>EQUIVALENT BUTTONS BETWEEN 1 AND 2 KEYPADS MODELS</b>		
ACTIONS	1 KEYPAD	2 KEYPADS
Navigate in the menu	Single press on INFO	LEFT/RIGHT
Enter menu	Long press INFO	OK (CLOCK and EXIT menus only)
Edit value	Single press on INFO	UP/DOWN

<b>EQUIVALENT BUTTONS BETWEEN 1 AND 2 KEYPADS MODELS</b>		
ACTIONS	1 KEYPAD	2 KEYPADS
Change information display	Press TRIP	UP/DOWN (TRIP menu only)
Reset Trip when displayed)	Long press TRIP	Long press UP/DOWN
Fault codes/Maintenance	Long press INFO	OK

**NOTE:** Some indications, functions and features described in this section may not apply to every PWC model, or may be available as an option.

#### 1) Handlebar

The handlebar controls the direction of the watercraft. During forward operation, turning the handlebar to the right steers the watercraft to the right and inversely.

# WARNING

Check handlebar and corresponding steering nozzle operation before starting. Never turn handlebar while someone is near the rear of the watercraft. Keep away from propulsion system.

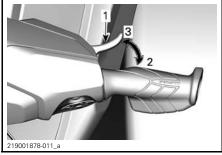
When operating in reverse, steering direction is reversed. Turning the handlebar to the right while backing up steers the watercraft to the left. Refer to *OPERATING INSTRUCTIONS* for detailed instructions.

#### 2) Throttle Lever

The throttle lever on the RH handlebar controls electronically the engine speed.

To increase or maintain watercraft speed, pull the throttle lever with your finger.

To decrease watercraft speed, release the throttle lever.



- 1. Throttle lever
- To accelerate
- 3. To decelerate

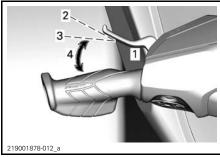
The throttle lever is spring loaded and should return to rest position (idle) when not pressed.

### iBR Lever (intelligent Brake and Reverse)

The iBR lever on the LH handlebar can electronically command:

- Brake
- Reverse
- Neutral.

**NOTE:** A minimum of 25% of iBR lever stroke is required to activate iBR functions.



#### **TYPICAL**

- 1. iBR lever
- 2. Lever rest position
- 3. 25% stroke required to activate iBR functions
- 4. Operating range

At speed above 15 km/h (9 MPH), pulling the iBR lever will engage the brake.

**NOTE:** If water current is 15 km/h (9 MPH) or above, the reverse can not be engaged as the speed threshold for the reverse is exceeded.

At speed below 15 km/h (9 MPH), pulling the iBR lever will engage reverse.

When the iBR lever is released after braking or reverse operation, the neutral is engaged.

# WARNING

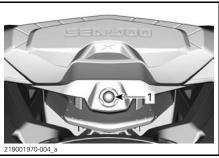
If throttle lever is still pulled in when releasing the iBR lever, forward movement will be initiated after a short delay. If forward acceleration is not desired, release the throttle lever.

**NOTE:** The neutral position can be fine tuned by trimming the iBR system.

Refer to *OPERATING INSTRUCTIONS* for detailed instructions.

# 4) Engine Cut-Off Switch

The engine cut-off switch is located in the middle of the handlebar.



**TYPICAL** 

1. Engine cut-off switch

To allow engine starting, the tether cord cap must be securely snapped to the engine cut-off switch.

# WARNING

Always attach the tether cord clip to the operator's personal flotation device (PFD) or wrist (wrist strap required).



#### TYPICAL

- 1. Tether cord cap on the engine cut-off switch
- 2. Tether cord secured to operator's PFD

To stop engine, pull the tether cord cap from the engine cut-off switch.

# **A** WARNING

Should the engine be stopped, the brake function and all watercraft directional control is lost.

# **A** WARNING

Always disconnect tether cord when watercraft is not in operation in order to prevent accidental engine starting or to avoid unauthorized use by others, children, and to prevent theft.

# Radio Frequency Digitally Encoded Security System (RF D.E.S.S.)

The tether cord cap contains an electronic circuit (D.E.S.S.<sup>TM</sup> key) that is programmed to give it a unique electronic serial number. This is the equivalent of a conventional key.

The D.E.S.S. system reads the key installed on the engine cut-off switch and only allows engine starting for keys it recognizes.

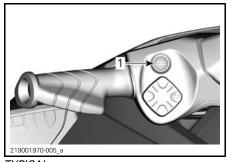
The D.E.S.S. system brings great flexibility. You can buy additional tether cords and have the D.E.S.S. keys programmed for your watercraft.

A total of ten D.E.S.S. keys can be programmed.

To have a key programmed to your watercraft, see your authorized BRP Sea-Doo dealer

# 5) Engine START/STOP Button

The engine START/STOP button is located on the LH handlebar.



TYPICAL

1. START/STOP button

#### **Engine Starting and Stopping**

Refer to *OPERATING INSTRUCTIONS* for complete procedures on how to start and stop the engine.

#### Waking Up the Electrical System

Press the START/STOP button once without installing the tether cord on the engine cut-off switch.

This will power up the electrical system; the information center will cycle through a self-test function.

The electrical system will stay powered up for approximately 75 seconds after the START/STOP button was depressed.

When the tether cord is installed on the engine cut-off switch, the system will be powered for 60 minutes.

Every time the START/STOP button is pressed, the countdown restarts. This will allow listening to the BRP Audio Premium system (If equipped). When the battery voltage drops below 12.3V, the LOW BATTERY indicator lamp will light up and the electrical system will shut down after 75 seconds.

#### **Post-Drive Battery Management**

This feature allows keeping the electrical system awake to allow using accessories when the engine is turned off. It also prevents draining the battery too much when using accessories. When the battery voltage reaches 12.3V or less, the system will automatically shut down to ensure being able to start the engine.

When the electrical system is activated by pressing start-stop briefly while the engine is shutdown the wake-up time will be managed as follows:

- Key off: System will shut down after 75 seconds.
- Key on: System will shut down after 60 minutes or if the voltage threshold is reached.

### 6) VTS (Variable Trim System) Button (if equipped)

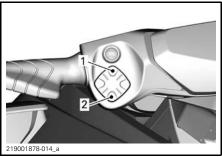
This watercraft is equipped with a high performance VTS.

**NOTE:** The VTS button is used for Neutral adjustment. This is to adjust the neutral position of the watercraft. Refer to *OPERATING MODES* for details

It provides watercraft pitch trim adjustments by adjusting the vertical position of the jet nozzle.

The VTS can be electrically trimmed to desired attitude, or to one of tree preset trim positions (full up, middle and full down).

Refer to *OPERATING INSTRUCTIONS* for details.

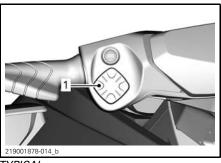


VTS CONTROL BUTTON

- 1. Bow up
- 2. Bow down

### 7) Mode Button

The Mode button is located on the LH handlebar.



**TYPICAL** 

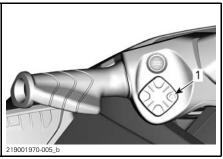
1. Mode button

It is used to choose between Default, Sport, Eco and Ski mode, if equipped.

Refer to *OPERATING MODES* for details.

# 8) Speed Control Button (if equipped)

The Speed Control button is located on the LH handlebar.



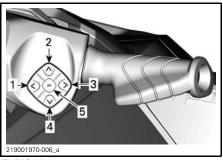
1. Speed Control button

It is used to activate or deactivate the speed limiter, slow speed mode.

Refer to *OPERATING MODES* for details.

### 9) LEFT/UP/DOWN/ RIGHT Arrow and OK Buttons (if equipped)

These buttons are located on the RH side handlebar and are used to scroll through various functions available through the information center.

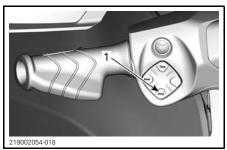


#### TYPICAL

- 1. Left button
- 2. UP button
- 3. Right button
- 4. Down button 5 OK button

# 10) INFO button (if equipped)

The INFO button is located on the LH handlebar.

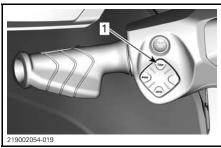


1. INFO button

It is used to navigate through the menus and to change some settings.. Refer to *OPERATING MODES* for details.

# 11) TRIP button (if equipped)

The TRIP button is located on the LH handlebar.



1. TRIP button

It is used to cycle through the tripmeter displays and the clock on the upper left display.

Refer to *OPERATING MODES* for details.

### 4.5" DIGITAL DISPLAY

# Multifunction Gauge Description

### **A** WARNING

Do not adjust the display while riding, you could lose control.

#### **General View**



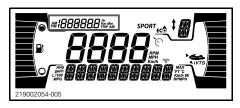
#### **Multifunction Display**

Left Lateral Display



The left lateral display shows the fuel level indicator.

#### Left Upper Display



The left lateral display includes:

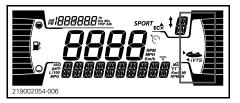
- Tripmeter
- Clock

User can decide to display one the following on the tripmeter:

- Vehicle hours: Displays the total vehicle hours
- Trip KM: Displays the distance since the last reset.
- Trip HR : Displays the time since the last reset.

**NOTE:** Clock is shown only if the integrated GPS receives a signal from the satellites. This may take several seconds after waking up the system.

#### Right Lateral Display



The right lateral display shows the VTS position.

#### **Central Display**



The central display includes:

- Vehicle speed
- Speed control indicator (if equipped)

The speed control indicator in this display is only activated when a target speed is set.

#### iBR Position Display



This display shows gears position of the iBR:

- N (neutral)
- F (forward)
- R (reverse)

It can also display the selected speed level (1 to 9) when the slow speed mode is selected.

#### **MODE Display**



The MODE display indicate the selected alternative mode of operation:

- SPORT
- ECO

To cycle through the MODES;

- Press MODE button.
- Acknowledge the safety message by pressing and holding MODE button will get the SPORT mode,
- Pressing MODE button again will activate the SKI mode (if equipped),
- Pressing MODE button again will activate the ECO mode.

**NOTE:** The SKI mode has no icon in the digital display. Refer to *OPERAT-ING MODES* for more details.

#### Lower Display



User can decide to display one the following:

- RPM : Displays the RPM of the engine
- Depth (if equipped): Displays the depth of the water
- Settings
- Messages
- Speed Stat (if equipped): Displays the average and maximum speeds reached in the current riding cycle

#### **Indicator Lamps**

#### Warning and Telltale Lights



WARNING AND TELLTALE LIGHTS	
<u>ш</u> }{	RED - The engine temperature or the exhaust temperature is too high.
- +	RED - The battery level is low.
*	RED - Low oil pressure
	ORANGE - Low fuel level
<b>-</b>	ORANGE - Check engine
N	Green - Neutral

#### Icons and Indicators

ICONS AND INDICATORS	
SPORT	Denotes SPORT mode is selected.
ECÔ	Denotes ECO mode is selected.
<b>*</b>	Steady ON: indicates that the VTS is activated (if equipped).
E. C.	Denotes Speed Limiter or Slow Speed mode (if equipped)

**NOTE:** <sup>1</sup> The maintenance icon can be reset manually, refer to *MAINTE-NANCE RESET*.

#### **SETTINGS**

EQUIVALENT BUTTONS BETWEEN 1 AND 2 KEYPADS MODELS		
ACTIONS	1 KEYPAD	2 KEYPADS
Navigate in the menu	Single press on INFO	LEFT/RIGHT
Enter menu	Long press INFO	OK (CLOCK and EXIT menus only)
Edit value	Single press on INFO	UP/DOWN
Change information display	Press TRIP	UP/DOWN (TRIP menus only)
Reset Trip when displayed)	Long press TRIP	Long press UP/DOWN
Fault codes/ Maintenance	Long press INFO	ОК

Use the RIGHT arrow button or LEFT arrow button to navigate through setting menus. Use OK button to enter setting menu, to confirm selection or reset some values. Use UP arrow or DOWN arrow to change selected value.

#### **Settings Menu**

Using the RIGHT or LEFT arrow button, select **SETTINGS** and press OK button to enter setting menus.

#### Maintenance Reset

Select **RES MAINT** and hold OK button to reset maintenance.

**NOTE:** The maintenance reset can only be done within the first 15 seconds of ECM wake-up when a maintenance is required.

#### **Display Codes**

Refer to DISPLAYING FAULT CODES.

#### **Setting Tripmeter**

Select **TRIP** and press UP or DOWN arrow button to cycle through **Vehicle Hours**, **Trip KM** and **Trip HR**.

Press and hold OK button to reset selected trip info.

#### Setting Learning Key

Connect a normal key to the vehicle. Select L-KEY # and press UP or DOWN arrow button to set the desired learning key level between 1 and 5.

Press and hold OK button to confirm.

**NOTE:** The default learning key level is 1 (lowest performance).

#### Unit Selection

Select **UNITS** and press UP or DOWN arrow button to change units.

**NOTE:** Changing units will apply to all the displayed units.

#### Setting Brightness

Select **BRIGHTNESS** and press UP or DOWN arrow button to adjust brightness level (from -4 to 4).

#### Setting Clock

Select CLOCK.

### 1 Keypad models

- Press INFO button to select clock display.
- Long press INFO button to enter clock editing.
- 3. Press INFO button to select 12:00 AM PM or 24:00 time base.
- 4. Long press INFO button to confirm and display hours.
- 5. Press INFO button to change hours.

6. Long press INFO button to confirm.

#### 2 Keypads models

- 1. Press OK button to select clock display.
- Press UP or DOWN arrow button to select 12:00 AM PM or 24:00 time base.
- 3. Press OK button to confirm.
- 4. Press UP or DOWN arrow button to change hours.
- 5. Press OK button to confirm.

**NOTE:** Menu available only if GPS is synchronized.

To exit **SETTINGS**, select **EXIT** and press OK button.

# Resetting speed statistics (if equipped)

Select **SPEED STAT** and press and hold OK button to reset the speed statistics.

**NOTE:** The speed statistics are automatically reset after the gauge shut down.

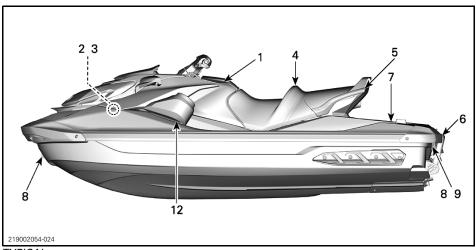
#### Setting Language

The gauge display language can be changed. Refer to an authorized Sea-Doo dealer for language availability and to setup the gauge to your preference.

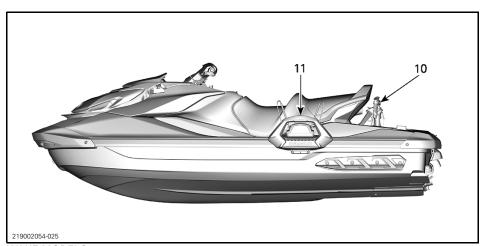
### **EQUIPMENT**

**NOTE:** Illustrations may not be accurate for every model and are only provided as a visual guide.

**NOTE:** Some vehicle safety labels are not shown on illustrations. For information on vehicle safety labels, refer to *WATERCRAFT SAFETY LABELS*.



TYPICAL

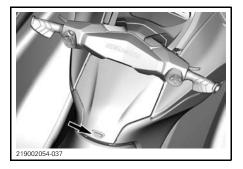


WAKE MODELS

#### 1) Glove Box

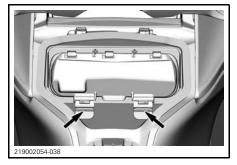
A small, storage compartment for personal articles.

Press on cover latch to open glove box.



#### Watertight Compartment

Inside the glove box is located a small watertight storage compartment for personal articles. Pull backwards on the two latches to open.



There is a protective foam located inside the watertight compartment to protect a phone from damages. Make sure the smartphone is held in place by the foam and not the edges of the receptacle and that you can close the lid. Always make sure the foam is completely dry before using.

Refer to *MAXIMUM PHONE SIZE* chart.

MAXIMUM PHONE SIZE		
Length	160 mm (6.3 in)	
Width	85 mm (3.3 in)	

**NOTE:** Due to variation in smartphone sizes and cases styles, ensure there is no pressure on connector and/or phone when closing the lid.

Some models are equipped with a USB port used for charging. When using the USB port to charge a smartphone, always make sure to route the cable such that there is no pressure on either ends of the cable to prevent damage to cable or smartphone connectors.

NOTE: For optimum performance, always use OEM USB cables. Low cost aftermarket cables may not have data lines and/or higher impedance which may result in poor charging performance or overheating.

Many models of smartphones have a brittle female connector so extra care should be taken when inserting in the watertight compartment. BRP recommends to use a short cable (no more than 25 cm (10 in)) so there is less extra cable length to stow.

The models not equipped with USB charging port are instead equipped with a rubber seal to ensure water-tightness. There is a ventilation membrane that balance pressure inside and outside the compartment to ensure it can be opened without suctioning water droplets inside. The membrane itself is watertight. Watertightness of the compartment is finally ensured by pressing the compartment's door on the surrounding seal, using the two latches

To ensure that articles inside the compartment are protected from the environment, the following recommendations should be followed:

Before and during use:

 Make sure the seal is intact, cleared and properly positioned.

#### **FOUIPMENT**

- Make sure the ventilation membrane is intact and properly positioned.
- Make sure the seal around the USB charging port (or rubber seal) is intact and properly positioned.
- Completely dry the compartment and its contents before closing.
- Make sure nothing gets pinched between cover and box when closing compartment.
- Always close the compartment completely using the 2 latches.

#### After use:

- Remove smartphone from compartment.
- Whenever not in use, the USB charging port's integrated rubber cap should be installed to cover the connector.
- Whenever not in use, the compartment door's latches should remain opened to extend seal life.

**NOTE:** Use of desiccant in the watertight compartment is recommended to eliminate condensation in very humid environment. Replace desiccant frequently.

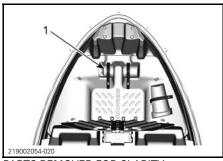
Refer to *BRP AUDIO PREMIUM SYS-TEM* for complete instructions.

# 2) Fire Extinguisher Holder

**NOTE:** Fire extinguisher is sold separately.

The fire extinguisher support is located inside the front storage compartment cover.

Use the rubber tie-downs to properly secure the fire extinguisher.



PARTS REMOVED FOR CLARITY

1. Fire extinguisher

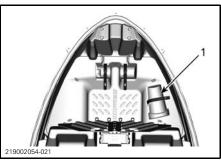
#### i. The extinguisher

# 3) Safety Kit Holder

**NOTE:** Safety kit is sold separately.

The safety kit support is located inside the front storage compartment cover.

Use the rubber tie-downs to properly secure the safety kit.

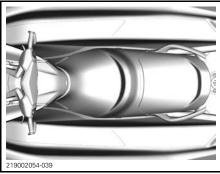


PARTS REMOVED FOR CLARITY

1. Safety Kit

### 4) Seat

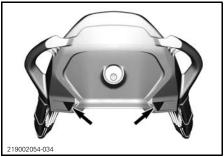
This model comes equipped with an ergonomic seat narrowing towards the front with knee grab design allowing you to position your legs towards the inside of the footwells, minimizing upper body fatigue and granting you more control when cornering.



**ERGONOMIC SEAT** 

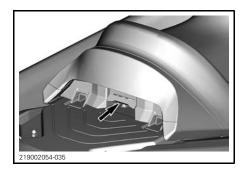
#### **Seat Removal**

To remove the seat, push on the two release buttons and lift the back end of the seat.



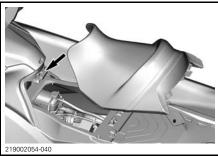
RELEASE BUTTONS

Then pull the latch handle up and remove the seat from the watercraft.



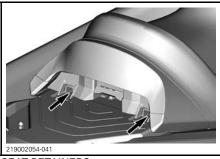
#### **Seat Installation**

To install the seat, insert the forward end of the seat in it's retainer.



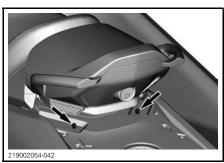
SEAT RETAINER

Insert the forward part of the rear seat into the retainers.



SEAT RETAINERS

Align the seat latch with the latch pin and firmly press down on the rear portion of the seat to lock it in place.



LATCH PINS

Pull up on the rear portion of the seat to ensure it is properly latched.

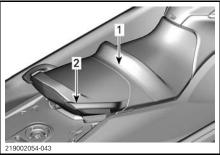
**CAUTION** Ensure the latch is properly locked onto the pin.

# 5) Passenger Handholds

The seat strap provides a handhold for a passenger to hold on to when riding.

The sides of the molded grab handle at the rear of the seat also provide a handhold for a passenger. The rear portion of the molded grab handle provides a handhold for the skier/wakeboarder (if applicable) spotter or boarding the watercraft from the water.

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

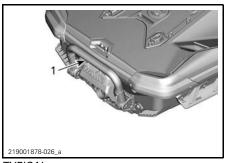


PASSENGER HANDHOLDS

- 1. Seat strap
- 2. Molded grab handle

# 6) Boarding Ladder (If Equipped)

A convenient ladder used for boarding the watercraft from the water.



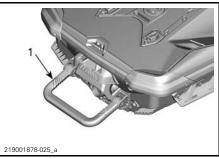
TYPICAL

1. Boarding ladder

# WARNING

The engine must be shut off before attempting to board the watercraft using the boarding ladder.

Pull down the ladder with your hand and hold until a foot or a knee is put on the ladder.



**TYPICAL** 

1. Boarding ladder in lowered position

#### NOTICE

- Never use the ladder for boarding a watercraft that is out of water.
- Never use the ladder for pulling, towing, diving or jumping, or any other purpose other than as a boarding ladder.
- Stay on center of the ladder.
- Only one person at a time on the ladder.

# **A** WARNING

Be aware of the iBR gate movement when starting the engine, shutting down the engine or using the iBR lever. Automatic movement of the gate may squeeze fingers or toes of people taking a hold on the back or your PWC.

# 7) Boarding Platform

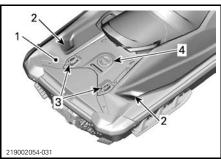
A boarding platform covers the rear deck area.

**CAUTION** The two LinQ attachment points are used to carry accessories and should always be retracted when not in use.

Two indentations in the platform are used as foot rests for the rear facing spotter when towing a skier, wakeboarder or tuber.

A ski pylon can be installed by removing the ski pylon hole cover in the middle of the platform. The ski pylon hole cover is **not** the fuel cap.

**A** CAUTION Always install ski pylon hole cover when ski pylon is not installed.

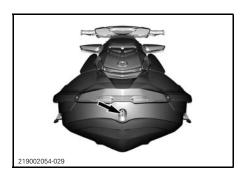


- 1. Boarding platform
- Spotter foot rests
- 3. LinQ attachments
- 4. Ski pylon hole cover

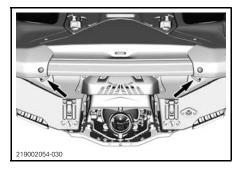
### 8) Front and Rear Eyelets

Eyelets can be used for mooring, towing and as tie-down points when trailering your watercraft.

#### **Front Eyelet**

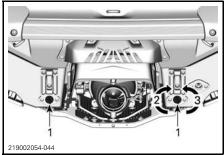


#### Rear Eyelets



# 9) Bilge Drain Plugs

Unscrew drain plugs whenever watercraft is on the trailer. This will allow water accumulated in the bilge to be evacuated and helps to reduce condensation.



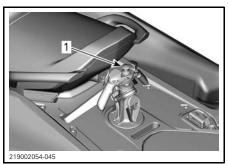
#### TYPICAL

- 1. Drain plugs
- 2. Tighten
- 3. Loosen

**NOTICE** Ensure drain plugs are properly secured prior to launching the watercraft in water.

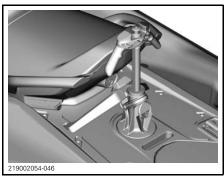
# 10) Retractable Ski Pylon (WAKE model)

Pull up on the knob to extend the pylon. Ensure both sections of pylon are fully extended and properly locked before attaching ski or wakeboard rope.



SKI PYLON RETRACTED

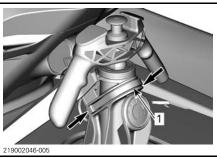
1. Pull on this knob to extend



SKI PYLON EXTENDED

To retract the pylon, push straight down on the top.

If the pylon becomes difficult to extend or retract, simultaneously push in on both sides of the locking clip toward front of watercraft



TYPICAL - PUSH TOWARD FRONT TO UNLOCK AND REMOVE PYLON 1. Locking clip

# **A** WARNING

Make sure ski pylon is fully extended and locked before use. Completely retract and lock when not used. Use caution with skier/wakeboarder in tow as tow rope may backlash to watercraft when released. Never perform a sharp turn when towing a skier or wakeboarder. Always store tow rope when not in use.

# WARNING

When using the ski pylon, never carry cargo or accessories on the boarding platform.

### **A** WARNING

Always install the passenger seat when the ski pylon is installed.

**NOTICE** The ski pylon is designed for towing a skier or wakeboarder with a maximum weight of 114 kg (250 lb).

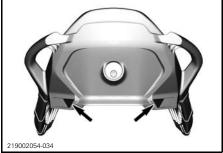
Always have one person other than the operator as an observer.

**NOTE:** The handles on the ski pylon are provided as a handhold for the observer

**NOTICE** Never use the ski pylon to tow other watercrafts. Respect the maximum load limit rating of the ski pylon. Overloading can affect maneuverability, stability and performance.

#### Removing/installing the Ski Pylon

Remove the rear seat.



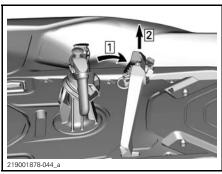
**RELEASE BUTTONS** 

Unlock the LinO attachment.



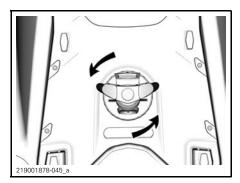
LinQ lever

Tilt the support toward the front and lift.

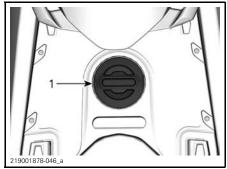


Tilt support
 Lift support

Unscrew the pylon by turning it one quarter of a turn and lifting it.



**NOTICE** It is very important to install the ski pylon hole cover to prevent water infiltration into the hull.



1. Ski pylon cover

When not in use, safely store the pylon and support in an appropriate location.

Never ride without the rear seat installed.

The installation is the reverse of the removal procedure.

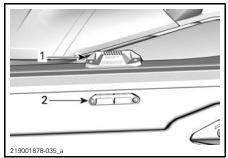
# 11) Wakeboard Rack (WAKE model)

A convenient removable rack to carry a wakeboard on the watercraft when on the water.

**NOTE:** The wakeboard rack can be installed on the LH side of the watercraft.

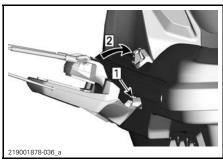
#### To install:

Insert the hooks on the lower portion of the rack into the lower retaining bracket located on the hull under the LH side bumper.



RETAINING BRACKETS FOR WAKEBOARD RACK

- 1. Upper retaining bracket
- 2. Lower retaining bracket
- Rotate the rack upwards and push the top of the rack inboard until the handle locks into the top retaining bracket.
  - 2.1 Insert the hooks of the lower portion of the rack into the lower retaining bracket
  - Rotate the rack upwards and push the top of the rack inboard.



Step 1: Insert Step 2: Rotate

# **A** WARNING

If rack is not properly secured on the watercraft, it could become loose and detach unexpectedly, creating a risk of injury to people nearby. Periodically ensure the rack is properly locked on its support.

- When installing a wakeboard on the rack, position wakeboard fin(s) outward with the heel of the boots facing down near freeboard of the PWC.
- 4. Secure wakeboard using bungee cords.

# WARNING

To avoid possible injuries and cuts from the wakeboards fin(s), always place FIN(S) OUTWARDS.



WAKEBOARD INSTALLED WITH FINS OUTWARD

After installation, pull and push wakeboard to ensure it is tightly secured to rack.

# **A** WARNING

If the wakeboard is not properly secured on the rack, it could become loose and detach unexpectedly, creating a risk of injury to people nearby. To avoid:

- Inspect bungee cords condition and replace if damaged.
- Secure wakeboard properly on rack.
- Periodically ensure the board is properly attached.

**NOTE:** When the wakeboard is removed from its rack, secure the bungee cords so that they will not move freely when riding watercraft.

**NOTICE** The rack is designed to hold one wakeboard. Do not use to hold more than one wakeboard or to transport skis or any other object. Do not use rack(s) as mooring points or to reboard.

# **A** WARNING

With wakeboard and/or rack installed, operate with extra caution:

- NEVER perform aggressive maneuvers including a spin-out.
- NEVER jump waves.
- Use common sense and limit speed.

Otherwise, the wakeboard could detach or occupants could fall off and injure themselves against the wakeboard or rack.

# WARNING

When trailering the watercraft, NEVER leave a wakeboard installed on the rack. Otherwise, wakeboard fin(s) could cause injury to bystanders or wakeboard could fly off on the road. The bungee cords are under tension and could spring back and whip someone when released. Use caution.

To remove the wakeboard rack, depress the lever at the top of the rack and remove it from its retaining brackets.



WAKEBOARD RACK REMOVAL

1. Press this handle to release wakeboard rack

### 12) BRP Audio Premium System (If equipped)

The BRP Audio Premium sound system is composed of two waterproof speaker enclosures that connect via bluetooth to a smartphone, a keypad and, on Limited models, a USB port.

When the START/STOP button is pressed, the system will be powered for 75 seconds. When the tether cord is installed on the engine cut-off switch and the START/STOP switch is depressed, the system will be powered for 60 minutes. This will permit listening to the BRP Audio Premium system for an extended period. When the battery drops below 12.3V, the LOW BATTERY indicator lamp will light up and the electrical system will shut down after 10 seconds to prevent the battery from draining completely.

Bluetooth Pairing Mode - When the unit is powered On, the remote will automatically try to pair with the last connected device or will go in pairing mode if no paired devices are detected. When the system is in pairing mode, the Play/Pause/Power (1) light will blink. To manually enter the pairing mode, hold down the Play/Pause/Power button for 1 second. The unit will emit 2 small beeps and the Play/Pause/Power button will start blinking to indicate it's in pairing mode. Search for BRP REMOTE from your device's Bluetooth menu.

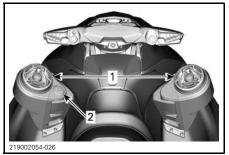
**NOTE:** All previously paired devices nearby must be turned OFF.

When paired, select a playlist or other source of music from your smartphone.

Never pair a smartphone or change the playlist or music source on the device while driving or operating the vehicle.

# WARNING

Using a smartphone or trying to pair a device while driving can distract the driver from operating the watercraft. Always use buttons with caution and always stay alert on the water, keeping eye contact with your environment at all times.



Speakers
 Keypad

The keypad is used to control the sound system.



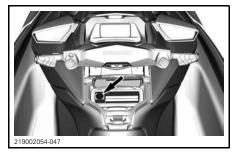
- 1. Play/Pause/Power
- Volume UP
- 3. Volume DOWN
- 4. Previous track
- 5. Next track

Play/Pause/Power - The Play/Pause/Power button gives you the ability to play or to pause

the current track with a single press. Pressing the Play/Pause/Power button will turn the unit On if currently Off or holding the Play/Pause/Power button for 3 seconds will turn the unit Off if currently On. The unit will emit 4 small beeps to indicate when power is turned Off. Note that all the buttons will illuminate when the unit is powered On.

Volume Up and Volume Down - These buttons will turn up or turn down the output of the volume. When the unit has reached the minimum or maximum output level, the unit will beep to indicate that no further adjustment is possible.

The USB port (if equipped) located inside the glove box watertight compartment is only used to charge the smartphone.



**NOTE:** Music is transferred via Bluetooth only. The USB port is used for charging purpose only.

CAUTION Prolonged exposition to loud music can damage your hearing. Therefore, we suggest a 10 minutes break time every 45 minutes of listening.

### **BREAK-IN PERIOD**

# Operation During Break-In Period

A break-in period of 10 operating hours is required before running the water-craft at sustained full throttle.

During this period, maximum throttle should not exceed 1/2 to 3/4 opening. However, brief full acceleration and speed variations contribute to a good break-in.

**NOTICE** Continued wide open throttle accelerations or operation, prolonged cruising speeds are detrimental during the break-in period.

NOTE: GTR 230: During the first 5 hours of operation, the engine management limits the engine maximum speed for engine protection. The engine performance will progressively increase during this period.

# OPERATING INSTRUCTIONS

# A WARNING

Always perform the *PRE-RIDE IN-SPECTION* before operating this watercraft. Be sure to read the *SAFETY INFORMATION* and the *WATERCRAFT INFORMATION* sections and be thoroughly familiar with the iControl technology.

Should any control or instruction not be fully understood, refer to an authorized Sea-Doo dealer.

# **Boarding the Watercraft**

As with any watercraft, boarding should be done carefully and engine must not be running.

Make sure to practice each boarding methods until fully able to safely board in any potential condition.

# **A** WARNING

Engine must be OFF and tether cord must be removed when boarding the watercraft or when using the boarding ladder.

### Boarding from a Dock

When boarding from a dock, slowly place one foot on the watercraft foot-board nearest the dock while holding the handlebar, and at the same time, transfer the body weight to the other side in order to balance the watercraft.

Then bring the other foot over the seat and place it on the other footboard. Push the watercraft away from the dock.



# **Boarding from Shallow Water**

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

# **A** WARNING

- Keep limbs away from jet or intake grate.
- Never use propulsion system as a supporting point to board the watercraft.

Ensure there is at least 90 cm (3 ft) of water underneath the lowest rear portion of the hull

Take into account that the hull will be lower in the water when all passengers are aboard. Be certain to maintain the specified depth so sand, pebbles and rocks will not be drawn up in the jet pump.



A. Maintain at least 90 cm (3 ft) underneath the lowest rear portion of the hull when all passengers are aboard

# **NOTICE**

- Starting the engine or riding the watercraft in shallower water may damage the impeller or other jet pump components.
- Stay on center of the step.
- Only one person at a time on the ladder.

# WARNING

- Be aware of the iBR gate movement when starting the engine, shutting down the engine or using the iBR lever. Automatic movement of the gate may squeeze fingers or toes of people taking a hold on the back or your PWC.
- Never use iBR gate as a supporting point to board the watercraft.

### **Boarding in Deep Water**

# **A** WARNING

- Keep limbs away from propulsion system or intake grate.
- Never use propulsion systems a supporting point to board the watercraft.
- Inexperienced riders should practice how to board the watercraft close to shore (all methods explained here) before venturing into deep water, especially when cargo is installed aboard on the rear platform.

# **A** WARNING

- Be aware of the iBR gate movement when starting the engine, shutting down the engine or using the iBR lever. Automatic movement of the gate may squeeze fingers or toes of people taking a hold on the back or your PWC.
- Never use propulsion system or iBR gate as a supporting point to board the watercraft.

#### Operator Alone

Swim to the rear of the watercraft.

Using one hand, lower the boarding ladder.



TYPICAL

Using the other hand, take hold of the edge of the boarding platform, then pull yourself up so that you can knee onto the boarding ladder.



TYPICAL

#### NOTICE

- Stay on center of the ladder.
- Only one person at a time on the ladder.

Reach forward with one hand and take hold of the molded handle behind the seat, then stand on the boarding ladder.



TYPICAL

NOTE: If cargo is properly secured on the boarding platform, it can be used as a handle or removed and set aside in the footwell to get access to the handle. Always properly secure the cargo before riding.

With both hands on the handle behind the seat, step up onto the boarding platform.



**TYPICAL** 



TYPICAL

Take hold of the seat strap to help maintain your balance and step forward onto the footboards on either side of the seat.



TYPICAL

Sit astride the seat.

It is possible to swim toward side, use passenger handhold and/or seat strap to lift yourself aboard.

**NOTE:** The side boarding method is not recommended as a first try boarding method. It must only be used in last resort as it is not the easiest method to board a watercraft.

### Operator with a Passenger

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

# **A** WARNING

Engine must be OFF and tether cord must be removed when boarding the watercraft or when using the boarding ladder. Never use propulsion system components as a supporting point to board the watercraft.

#### **OPERATING INSTRUCTIONS**

In choppy water, while in the water, the passenger may hold the water-craft steady to help the operator climb aboard.



TYPICAL

# **NOTICE**

- Stay on center of the step.
- Only one person at a time on the step.

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



TYPICAL - MODEL WITH BOARDING LADDER SHOWN



TYPICAL - MODEL WITH BOARDING LADDER SHOWN



TYPICAL



TYPICAL

# **How to Start Engine**

# **A** WARNING

Before starting the engine, the operator and passenger(s) should always:

- Be properly seated on the watercraft.
- Have a firm grip on a handhold or hold on to the waist of the person in front of them.
- Wear appropriate protective clothing including a PFD approved by local authorities and a wet suit bottom.

**NOTICE** Ensure there is at least 90 cm (3 ft) of water under the lowest rear portion of the hull when all passengers are aboard prior to starting the engine. Otherwise damage to the impeller or other jet pump components may occur.

- Attach the tether cord clip to your PFD or to the wrist (wrist strap required).
- Firmly grip handlebar with your left hand and place both feet on the footboards.
- Press the engine START/STOP button to wake up the electrical system.
- As the information center cycles through its self test function, install the tether cord on the engine cut-off switch.

# WARNING

The tether cord should always be attached to the operators personal flotation device or to the wrist (wrist strap required) when starting or operating the watercraft.

Depress the START/STOP button to start the engine. **NOTICE** In the event the engine does not start right away, do not hold START/STOP button more than 10 seconds to avoid starter overheating. A rest period should be observed between the cranking cycles to allow the starter to cool down. Refer to *TROUBLESHOOTING* section.

6. Release engine START/STOP button after engine is started.

# **A** WARNING

The tether cord should always be attached to the operators personal flotation device when starting or operating the watercraft.

# **How to Stop the Engine**

# **A** WARNING

To maintain watercraft directional control, the engine should be running until the watercraft is stopped.

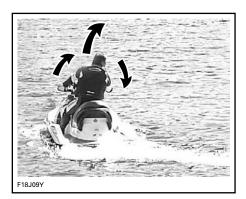
To shut off the engine, press the engine START/STOP button or pull off the tether cord cap from the engine cut-off switch.

# **A** WARNING

Never leave the tether cord on the engine cut-off switch when disembarking watercraft to prevent theft, accidental engine starting, and to avoid unauthorized use by children or others.

If the engine is shut off using the START/STOP button and the tether cord is left on the engine cut-off switch, the electrical power will shut off after approximately 60 minutes to prevent battery discharge.

# How to Steer the Watercraft



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 should be applied to turn the watercraft.

# **A** WARNING

Throttle should be applied and handlebar turned to change the direction of the watercraft. Steering efficiency will differ depending on the amount of throttle applied, the number of passengers, the load, the water conditions and the environmental factors such as the wind.

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.

# A WARNING

Directional control is reduced when the throttle is released and lost when the engine is off.

The watercraft behaves differently with a passenger and requires greater skill. The passenger(s) should always

grip the seat strap, the molded grab handle, or the waist of the person ahead of them. Reduce speed and avoid sharp turns. Avoid choppy water conditions when carrying a passenger.

# Tight Turns and Other Special Maneuvers

Any tight turns or special maneuvers that will cause the air inlet openings to be kept under water for a prolonged time, water will seep into the bilge.

Combustion engines need air to operate; consequently this watercraft cannot be totally watertight.

**NOTICE** If the air inlet openings are kept under water, such as turning constantly in tight circles, plunging the bow through waves, or capsizing the watercraft, water may seep into the bilge, which may cause severe damage to internal parts of the engine. Refer to the *WARRANTY* section contained in this guide.

# **How to Engage Neutral**

# **A** WARNING

The drive shaft and impeller are always turning when the engine is running, even when the iBR gate is set to the neutral position. Keep away from the propulsion system of the watercraft.

When the watercraft is first started, the iBR system automatically sets the iBR gate to the neutral position by default.

If the gate is in forward thrust position, tap the iBR lever. The gate will move to neutral.

If braking or reverse is used, the iBR gate will move to the neutral position when the iBR lever is released, if throttle is not applied.

**NOTE:** The throttle lever must be fully released for the iBR gate to move to the neutral position when the iBR lever is released.

If the engine is stopped in forward or reverse, the iBR gate will move to the neutral position on engine shutdown.

# How to Trim the Neutral Position of the iBR with VTS equipped

When in NEUTRAL, if the watercraft creeps forward or backward, the iBR system may be trimmed.

**NOTE:** Movement of the watercraft when operating in neutral may be due to wind or water current.

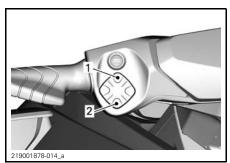
To enter the Neutral Adjustment mode, hold down the VTS up or down button for 0.5 Sec.

The message **Neutral Adjust** will be displayed.

To adjust the neutral position:

- If the watercraft is moving forwards, press the VTS DOWN button to adjust.
- If the watercraft is moving backwards, press the VTS UP button to adjust.

Adjust to achieve no movement when the engine is at idle.



VTS CONTROL BUTTON

- 1. Bow up
- 2. Bow down

To exit the **Neutral Adjust**, press OK button or wait 25 sec.

**NOTE:** It is not possible to adjust the neutral position without the VTS.

# **How to Engage Forward**

To engage forward thrust from neutral, tap on the throttle lever. The gate will move to forward thrust position and the watercraft will accelerate forward.

To engage forward thrust from reverse, release the iBR lever while applying throttle moderately.

To re-engage forward thrust from braking, simultaneously pull in the throttle lever while releasing the iBR lever. The watercraft will accelerate forward after a short delay.

# How to Engage and Use Reverse

Reverse can only be engaged between idle speed and the threshold forward speed of 14 km/h (9 MPH).

To engage reverse thrust, the iBR lever on the LH handlebar must be pulled in at least 25% of the lever travel.

When operating the iBR lever in reverse mode, the throttle lever can be used to control engine RPM, and thus the amount of reverse thrust produced.

By modulating both the iBR and throttle levers simultaneously, reverse thrust can be more precisely controlled. Too much RPM will create water turbulence and reduce reverse efficiency.

**NOTE:** Engine power will be reduced to idle whenever the iBR lever position is changed.

Release the iBR lever to end reverse operation.

To stop rearward velocity after iBR lever release, apply enough throttle to stop rearward movement.

# WARNING

The brake function has no effect when travelling in reverse.

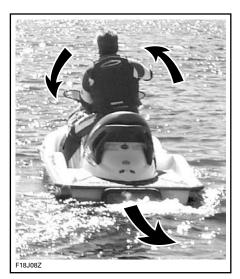
Available engine power is limited in reverse mode, which limits reverse speed. However, speeds above 14 km/h (9 MPH) may be obtained in reverse depending on conditions.

# WARNING

Only use reverse at slow speed and for the shortest time possible. Always ensure the path behind is clear of objects, obstacles and people.

When operating in reverse, turn the handlebar in the opposite direction that you want to move the rear of the watercraft.

For example, to steer the rear of the watercraft to port (left), turn the handlebar to starboard (right).



TYPICAL - STEERING DIRECTION REVERSED WHEN BACKING

A CAUTION Steering direction in reverse thrust is opposite of forward thrust. To steer the stern to port (left) in reverse, turn the handlebar to starboard (right). To steer the stern to starboard (right), turn the handlebar to port (left). Reverse thrust operation should be practiced in open waters in order to become fully familiar with the controls and watercraft handling characteristics before operating in close quarters.

# How to Engage and Use Braking

# WARNING

- The engine must be running to be able to use the brake.
- The brake is only applicable when operating in forward movement, it has no effect on rearward velocity.
- The brake cannot prevent your PWC from drifting due to current or wind.

The braking function can only be engaged during forward operation at or above the threshold speed of 14 km/h (9 MPH).

Braking is engaged and controlled when the iBR lever on the LH handlebar is pulled in at least 25% of its travel.

### **A** WARNING

Braking should be practiced in open waters and at gradually increasing speeds in order to become fully familiar with the controls and watercraft handling characteristics.

When iBR lever is applied, the throttle lever command is overridden and engine throttle control is now dependant on the iBR lever position. Braking can thus be modulated by using only the iBR lever.

Watercraft deceleration is proportional to the braking force. The more the iBR lever is pulled in, the greater the braking force applied.

**NOTE:** Be careful to gradually actuate the iBR lever to adjust intensity of the braking force and simultaneously release the throttle lever.

**CAUTION** When braking, riders must brace themselves against the deceleration force to prevent from moving forward on the watercraft and losing balance. The operator should always keep both hands on the handlebars, and all passengers should maintain a firm grip of a handhold or the waist of the person in front of them.

# **A** WARNING

Stopping distance will vary depending on initial speed, load, wind, number of riders, water conditions, and the amount of braking power commanded by the operator. Always adjust your riding style accordingly.

When the watercraft slows to less than 14 km/h (9 MPH), braking mode ends and reverse mode is engaged. Release the iBR lever once the watercraft is stopped. Otherwise, a rearward movement will be initiated.

**CAUTION** As the watercraft slows to a stop, the wake created by the watercraft will catch up and tend to push the watercraft forward. Ensure there are no obstacles or bathers in the direction of travel.

If the throttle lever is still pulled in when releasing the iBR lever, the watercraft will accelerate forward after a short delay. Acceleration will be proportional to the throttle lever position.

# **A** WARNING

If forward acceleration is not desired when the brake lever is released, release the throttle lever.

When at speed and the brake is first applied, a plume of water will shoot up in the air behind the watercraft which may cause the operator of a following watercraft to momentarily loose sight of your PWC.

# WARNING

- It is important to inform the operator of a watercraft who intends to follow in a convoy formation, of the braking and maneuvering capability of your PWC, what the plume of water indicates, and that a greater distance must be maintained between watercrafts.
- Be aware that other boats following or operating in close proximity may not be able to stop as quickly.

### Braking in a Turn

Throttle must be applied for turning to ensure directional control. However braking can be initiated during a turn using the iBR lever as previously described. Get ready to maintain your balance while the wake is crossing your PWC.

A CAUTION As the watercraft slows to a stop while braking in a turn, the wake created by the watercraft will catch up and tend to push the watercraft sideways. Be prepared to maintain balance as the wake crossed the watercraft.

### How to Use the Variable Trim System (VTS) (if equipped)

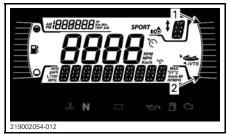
variable The trim system changes the vertical position of the jet pump nozzle to provide the operator with a fast, effective system to compensate for load, thrust, riding position and water conditions. Correctly adjusted, it can improve handling, reduce porpoising, and position the watercraft at its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

When first using the watercraft, 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 become familiar with 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.

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

NOTE: VTS position is indicated on a bar gauge in the right lateral display of the information center.



INFORMATION CENTER — VTS POSITION **INDICATOR** 

- Bow up
   Bow down

The VTS system allows for manually adjusting the trim position of the nozzle.

### **VTS Trimming Methods**

AVAILABLE VTS TRIMMING METHODS				
	GTI	GTI SE	GTR	WAKE
VTS trim button	N.A.	Χ	Χ	Χ
VTS "Double Click" trimming	N.A.	Χ	Χ	Χ
VTS "Presets"	N.A.	Χ	Χ	Χ
Launch Control	N.A.	-	N.A.	-

X = Indicates a **standard** feature

- = See your Sea-Doo dealer for availability.

N.A. = Not Available

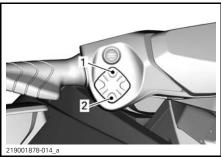
# Trimming the VTS Using the VTS Button

Nine trim positions are available.

With the watercraft operating in forward thrust, proceed as follows.

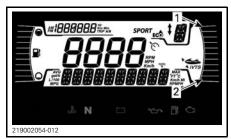
**NOTE:** Pressing the VTS trim button without the engine in forward thrust will only change the indication. The nozzle will move to the selected VTS trim position when forward thrust is engaged.

- 1. Press the VTS UP button once to trim the bow of the watercraft up to the next up trim position.
- Press the VTS DOWN button once to trim the bow of the watercraft down to the next down trim position.



VTS CONTROL BUTTON

- 1. Bow up
- 2. Bow down



INFORMATION CENTER — VTS POSITION INDICATOR

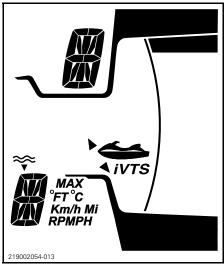
- 1. Bow up
- 2. Bow down

NOTE: If the VTS UP or DOWN button is pressed and held, the pump nozzle will keep moving until the button is released at the desired trim attitude or the maximum trim position (up or down) is reached.

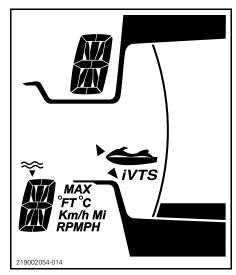
#### Using Preset Trim Positions

Three preset trim positions can be selected.

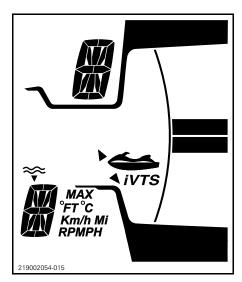
To select the highest trim position recorded, double-click on the VTS UP button (bow up).



To select the lowest trim position recorded, double-click on the VTS DOWN button (bow down).



To select the mid trim position, it depends on the actual trim position. Double-click on the VTS UP button if it is positioned below mid trim or double-click on the VTS DOWN button if it is positioned above mid trim.



**NOTE:** These preset trim positions are not adjustable.

# **General Operating Recommendations**

# Rough Water or Poor Visibility Operation

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

#### **Crossing Waves**

The operator must grip the handlebar firmly and keep both feet on the footboards.

The passenger must grip the handholds with both hands and keep both feet on the footboards.

Reduce speed.

Always be prepared to steer and maintain your balance as necessary.

When going over waves, raise your body slightly off the seat to absorb the shocks with your legs.

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

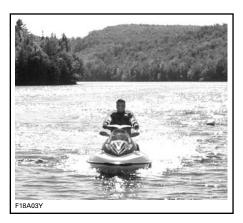
# WARNING

When crossing wakes, slow down. Operator and passenger(s) should brace themselves and adopt a semi-standing position to help absorb the bumps. Do not jump waves or wakes.

### Stopping/Docking

When the throttle is released, the watercraft is slowed by water drag against the hull. The stopping distance will vary depending on the watercraft size, weight, speed, water surface condition, presence and direction of wind and current.

The iBR system can also be used for slowing down or for stopping more quickly, and for increasing maneuverability especially when docking.



The operator should practice in open waters at various speeds to become familiarized with the stopping distances under different conditions. Stopping using the iBR system in a straight line and in a turn should be practiced extensively to become familiar with the handling characteristics of the watercraft under partial or full braking conditions.

# WARNING

Always practice braking in open waters ensuring there are no watercrafts or boats in your immediate vicinity, especially astern. Other users of the waterways may not be able to maneuver or stop in time to avoid you should you unexpectedly come to a full stop in front of them.

When at speed and the brake is first applied, a plume of water will shoot up in the air behind the watercraft and may cause the operator of a following watercraft to momentarily loose sight of your PWC.

# **A** WARNING

It is important to inform the operator of a watercraft who intends to follow in a convoy formation of the braking and maneuvering capability of your PWC, what the plume of water indicates, and that a greater distance should be maintained between both of you.

The operator should also practice docking with an imaginary dock using the various controls available (iBR lever and throttle lever).

Release the throttle at a sufficient distance before the expected landing area.

Reduce speed to idle.

Maneuver using a combination of the iBR lever and throttle lever, shifting to neutral, reverse, or forward as required.

Remember that when operating in reverse, steering direction is reversed. Turning the handlebars to the left will move the stern to the right when backing up, and vice-versa.

# WARNING

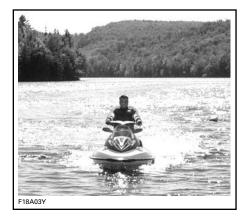
Directional control is reduced when the throttle is released and/or when engine is off. Steering direction is reversed when operating the watercraft in reverse.

# Beaching

**NOTICE** It is not recommended to run the watercraft to the beach.

Drive slowly towards the beach and shut off the engine before the water is less than 90 cm (3 ft) deep under the lowest rear portion of the hull. Then pull the watercraft to the beach.

**NOTICE** Riding the watercraft in shallow water may result in damage to the impeller, iBR components, or other jet pump components. Always shut off the engine before water is less than 90 cm (3 ft) deep and never use reverse or braking.



# **OPERATING MODES**

	GTI	GTI SE	GTR	WAKE
Default riding mode	Χ	X	X	Х
Sport mode	Χ	X	X	Х
ECO mode	Χ	Χ	X	Х
Speed Limiter mode	N/A	X	X	Х
Slow speed mode	N/A	Χ	X	Х
Ski mode	N/A	-	-	Х
Learning key modes	X	X	X	Х

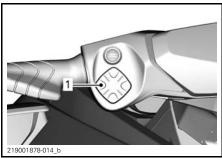
X = Indicates a **standard** feature

- = See your Sea-Doo dealer for availability.

N.A. = Not Applicable

#### To change the operating mode;

- Press MODE button,
- Acknowledge the safety message by pressing and holding MODE button will get the SPORT mode,
- Pressing MODE button again will activate the SKI mode (if equipped),
- Pressing MODE button again will activate the ECO mode.



1. MODE button

# **Default riding Mode**

By default, the watercraft is set to DE-FAULT riding mode of operation when started.

# **Sport Mode**

SPORT MODE provides for instant throttle response and more rapid accelerations than DEFAULT riding MODE.

Once activated, SPORT MODE will remain active until it is deactivated by the operator, or the engine is shut down whereby it defaults back to DEFAULT riding MODE.

#### **Activating Sport Mode**

To activate the Sport mode, press once on the MODE button while in DEFAULT riding mode. The sport icon will start to flash and a safety message will scroll. For safety reason, follow the instruction in the safety message to activate the sport mode. Once activated, the SPORT icon will turn ON.

#### **Deactivating Sport Mode**

A single press on MODE button will take you to the SKI mode (if available) or ECO mode.

# ECO Mode (Fuel Economy Mode)

ECO mode provides a smoother throttle application and increased fuel economy.

# Speed Control Modes (if equipped)

To enter one of the speed control modes, press SPEED CTRL button. Depending of the speed of the watercraft, only one of the following modes will be activated.

Once the desired mode is activated, press the SPEED CTRL button then change the value with the UP or

DOWN arrow button while the **SET LEVEL** or **SET SPEED** message is active.

To exit the selected speed control mode, press MODE button or long press SPEED CTRL button.

#### **Speed Limiter Mode**

Speed limiter mode is a function of iTC (intelligent Throttle Control) system that allows the operator to set the desired maximum watercraft speed.

This is useful when cruising for long distances, operating in limited speed zones, or towing a tuber, skier or wake boarder.

The operator must keep the throttle depressed to maintain forward speed.

Once the maximum speed is set, the operator can vary the watercraft speed from idle speed up to the set speed using the throttle lever. The set speed will not be exceeded even if the throttle lever is fully depressed.

As you proceed under a constant speed setting, keep your attention level up to maintain good situational awareness.

Slowing down is a matter of releasing the throttle lever further than the set point, or by pulling the iBR lever in.

If the iBR lever is pulled in for braking, Speed Limiter mode is overridden but not deactivated.

Once the iBR lever is released and the throttle is pulled in to engage forward thrust, the speed limiter function will reengage to limit the watercraft speed as it was set before.

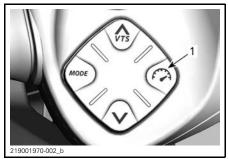
# Prerequisite for Speed Limiter Mode Activation

Speed limiter MODE can be activated when the watercraft is going at more then 15 km/h (9 MPH).

**NOTE:** Speed limiter mode is not available if slow speed mode is engaged.

#### **Activating Speed Limiter Mode**

- 1. Maintain a constant speed.
- 2. Press the Speed Control button on the left keypad.



1. Speed Control button

You will hear a beep indicating that you are now in speed limiter mode, and the speed control MODE indicator will be lit.



TYPICAL

NOTE: Activating speed limiter mode of operation only limits the maximum speed available when depressing the throttle lever. The throttle lever must be held in to maintain forward speed. Watercraft speed can be varied from idle up to the set cruise speed using the throttle lever once the speed limiter function is activated. Watercraft speed may vary depending on water conditions during use.

#### Deactivating Speed Limiter Mode

To deactivate speed limiter mode:

- 1. Release the throttle lever.
- 2. Press and hold the SPEED CTRL button or press MODE button.

Deactivation of speed limiter mode is indicated by:

The speed limiter indicator will go off.

NOTE: If the throttle lever is not fully released when the button is pressed to deactivate the speed limiter mode, the speed control MODE indicator will remain on. The speed limiting function will stay active until the throttle is fully released, then the speed control MODE indicator will go out.

#### **Slow Speed Mode**

The Intelligent Throttle Control also allows for a Slow Speed Mode where the driver can adjust and set idle speed. This is useful when operating in slow speed zones where the driver must be especially attentive to possible obstacle avoidance.

If you accelerate above approximately 15 km/h (9 MPH), Slow Speed Mode will be deactivated and the engine will return to idle RPM when the throttle is released.

Should a situation arise where the operator must stop or accelerate quickly away from a hazardous situation, pulling in the iBR lever, or pulling in on the throttle lever will deactivate slow speed mode and normal control of the watercraft will be returned to the operator.

# Prerequisite for Slow Speed Mode Activation

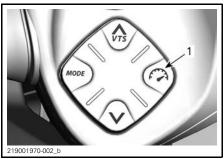
Slow Speed MODE can be activated when the watercraft is going at less then 15 km/h (9 MPH).

**NOTE:** Slow speed mode is not available if speed limiter mode is engaged.

#### **Activating Slow Speed Mode**

To activate slow speed mode of operation:

- Release the throttle lever to idle RPM
- 2. Press the SPEED CONTROL button on the left keypad.



1. Speed Control button

The Speed Control indicator will come on in the multifunction display to indicate activation.



TYPICAL

A message will scroll in the multifunction display to specify that you are now in slow speed mode.

The default slow speed setting of 5 will show in the numerical display.



#### Changing Set Slow Speed

To increase or decrease the set slow speed, press the UP/DOWN button on the RH handlebar once, or repeatedly.

**NOTE:** There are 9 slow speed settings available (1 through 9). Adjust slow speed mode to desired speed.

When pressing the up/down button, a message "SET LEVEL" will appear. You can select from one of the 9 slow speed setting (1 to 9).

Level 5 is the default and it correspond to the normal idle of the vehicle. By using level 1-4 you can slow down the vehicle and go as slow as 1.5 km/h (1 MPH). The slow speed mode can be used as a trolling mode and is useful for fishing. Level 6-9 gives you the ability to go up to 12 km/h (7 MPH) without touching the throttle lever.

**NOTE:** Speed will vary depending on load, wind and waves conditions

#### **Deactivating Slow Speed Mode**

The slow speed mode can be deactivated using any of the following methods:

- Pressing and holding the Speed Control button.
- Depressing the iBR lever.
- Accelerating past the set slow speed.

When deactivating SLOW SPEED MODE by accelerating using the throttle lever, the iBR gate stays in the forward position.

When using the iBR lever, the iBR gate will move towards the reverse position, then neutral when the lever is released.

SLOW SPEED MODE deactivation will be indicated in the following manner:

The Speed Limiter indicator will go out

# Ski Mode (If equipped)

Ski mode allows for repeated and precisely controlled launches, and a set towing speed, specifically for towing a skier or wake boarder.

#### **RAMP Function**

The RAMP function offers a pre-programmed setting for launching and accelerating the PWC.

#### RAMP 1 provides:

- Slowest launch (smoothest)
- Slowest acceleration rate

#### RAMP 5 provides:

- Quickest launch
- Quickest acceleration rate

#### **TARGET SPEED Function**

The TARGET SPEED function limits the maximum towing speed.

Once the RAMP has been selected, an average PWC target speed for that RAMP will be visible in the numerical display.

The operator may increase or decrease the target speed to any value within the selected RAMP speed range.

# Using Ski Mode

Press MODE button to select the SKI mode.

# Models with 2 Keypads only

- 1. Press OK button when SKI icon flashes.
- Select ski ramp by using the UP or DOWN arrow button. Ramp 1 will give the slowest acceleration.

NOTE: Acceleration ramp will not behave the same depending on the vehicle type, vehicle load and water conditions. For safety reasons, always start using ramp # 1 to familiarize your skier with acceleration and then change the ramp as needed.

3. Press OK or RIGHT arrow button to confirm acceleration ramp.

- Select the maximum target speed by using the UP or DOWN arrow button.
- 5. Press OK or RIGHT arrow button to confirm.

**NOTE:** At any moment you can use the LEFT and RIGHT arrow buttons to change the ramp and speed selection.

After your selection and when your are ready, press the OK button to activate the function.

NOTE: MODE remains active and ready until another driving mode is chosen.

#### **Deactivating Ski Mode**

To end a ski run and completely deactivate ski mode, release the throttle to idle, then press the MODE button.

# **Learning Key Mode**

The learning key provides a mode of operation whereby engine power and speed is limited.

There are 5 speed settings available.

By default, the speed setting is no 1.

Refer to 4.5 DIGITAL DISPLAY for adjustment.

# SPECIAL PROCEDURES

### Jet Pump Water Intake and Impeller Cleaning

# WARNING

Keep away from intake grate while engine is running. Items such as long hair, loose clothing or personal flotation device straps can become entangled in moving parts.

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 exhaust system, a clogged intake will cause the engine to overheat and damage engine internal components.

A weed clogged area can be cleaned as follows:

# **A** WARNING

If it is necessary to reach in to remove any foreign object caught in the propulsion system, the tether cord MUST BE REMOVED from the engine cut-off switch.

#### In-Water Cleaning

Rock the watercraft several times. Most of the time, this will remove the blockage. Start engine and make sure watercraft operates properly.

**NOTICE** Ensure there is at least 90 cm (3 ft) of water under the lowest rear portion of the hull when all passengers are aboard prior to starting the engine. Otherwise damage to the propulsion system components may occur.

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

- With engine running and before applying throttle, pull the iBR lever in to select reverse operation and vary throttle quickly several times.
- Repeat procedure if necessary.

If system is still blocked, move the watercraft out of the water for cleaning. Refer to *ON-BEACH WATER CLEAN-ING* 

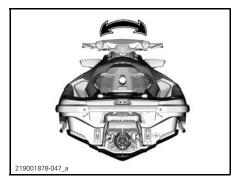
#### **On-Beach Water Cleaning**

### A WARNING

The tether cord MUST BE RE-MOVED from the engine cut-off switch to prevent accidental engine starting before cleaning the jet pump area.

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

Rotate the watercraft to any side for cleaning.



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

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

For ease of access to the jet pump area, move the iBR to the forward position, refer to *iBR OVERRIDE FUNC-TION* for detailed instructions.

#### **iBR Override Function**

When the iBR override function is activated, it allows the user to electrically move the iBR gate and nozzle through its full range of motion using the VTS control button.

**NOTE:** The iBR override function is only available when the engine is not running.

# **A** WARNING

When moving the iBR gate using the iBR override function, ensure no one is near the rear of the watercraft. Movement of the gate may squeeze fingers.

**NOTICE** An object or tool caught in the iBR system when using the iBR override function may cause damage to the iBR components. Remove all rigid foreign objects that may obstruct the iBR gate travel before moving it.

# **A** WARNING

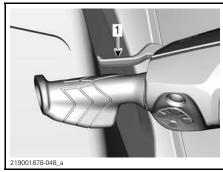
If it is necessary to reach in to remove any foreign object caught in the propulsion system, strictly observe the following before proceeding:

- Remove tether cord from the engine cut-off switch.
- Wait at least 5 minutes.
- Do not press on START/STOP button. Should the START/STOP button is pressed, wait another 5 minutes.

#### Activating iBR Override Function

To activate the iBR override function, carry out the following steps.

- 1. Power up the electrical system by pressing the START/STOP button.
- 2. Install the tether cord on the engine cut-off switch.
- 3. Pull in and hold the iBR lever for the entire procedure.



1. iBR lever pulled and held

 When the IBR OVERRIDE - PRESS MODE BUTTON message appears in the multifunction gauge, press the MODE button.

When the function is activated, a ON message will be shown.

5. While still holding the iBR lever in, press the VTS UP/DOWN button to move the iBR gate to the desired position. Ensure the VTS indication in the multifunction gauge changes with the iBR gate movement. If the iBR gate moves upwards, the indication moves upwards.

NOTE: For models with 1 keypad, UP/DOWN buttons are replaced by TRIP/INFO buttons

- 6. Release the iBR lever.
- 7. Remove the tether cord from the engine cut-off switch.

# WARNING

If it is necessary to reach in to remove any foreign object caught in the propulsion system, strictly observe the following before proceeding:

- Remove tether cord from the engine cut-off switch.
- Wait at least 5 minutes.
- Do not press on START/STOP button. Should the START/STOP button be pressed, wait another 5 minutes.

#### Deactivating iBR Override Function

To deactivate the iBR override function, release the iBR lever.

**NOTE:** When the engine is started, the iBR gate will move to the neutral position.

# WARNING

When moving the iBR gate using the iBR override function, ensure no-one stands near the rear of the watercraft. Movement of the gate may squeeze fingers.

# **Capsized Watercraft**

**NOTE:** Some vehicle safety labels are not shown on illustrations. For information on vehicle safety labels, refer to *WATERCRAFT SAFETY LABELS*.

The watercraft is designed so that it should not turn over easily. Two sponsons mounted on the side of the hull assist watercraft stability. If it turns over, it will remain capsized.

# WARNING

When watercraft is capsized, do not attempt to restart the engine. Operator and passengers should always wear approved personal flotation devices.

To turn the watercraft upright, ensure the engine is off and the D.E.S.S. key is **NOT** on its post, then grab the inlet grate, step on a side bumper rail and use your weight to rotate the watercraft towards you.

**NOTE:** A label on the stern near the flushing connector provides instructions on how to turn the watercraft right side up. The label is upside down so that it can be read when the watercraft is overturned.



**TYPICAL** 

The ACE<sup>TM</sup> engine features a tip-over protection system (T.O.P.S.<sup>TM</sup>). When the watercraft tips over, the engine is automatically stopped.

When the watercraft is returned to its normal operating position, the engine can be started normally.

**NOTICE** If the watercraft has been capsized for more than 5 minutes, do not attempt to crank the engine to avoid water ingestion that would damage the engine. See an authorized Sea-Doo dealer as soon as possible.

**NOTICE** If the engine does not crank, do not attempt to start it anymore. Otherwise, the engine could be damaged. See an authorized Sea-Doo dealer as soon as possible.

As soon as possible, check for presence of water in the bilge. Drain as necessary when back to the shore.

# **Submerged Watercraft**

To limit damages to the engine, perform the following procedure as soon as possible.

Drain bilge.

If it was submerged in salt water, spray bilge and all components with fresh water using a garden hose to stop the salt corroding effect.

**NOTICE** Never try to crank or start the engine. Water trapped in intake manifold would flow towards the engine and possibly cause severe engine damage.

Bring the watercraft to an authorized Sea-Doo dealer as soon as possible to have it serviced.

**NOTICE** The longer the delay before you have the engine serviced, the greater the damage to the engine will be.

# **Water-Flooded Engine**

**NOTICE** Never try to crank or start the engine. Water trapped in intake manifold would flow towards the engine and possibly cause severe engine damage.

Bring the watercraft to an authorized Sea-Doo dealer as soon as possible to have it serviced.

**NOTICE** The longer the delay before you have the engine serviced, the greater the damage to the engine will be. Failure to have the engine properly serviced may cause severe engine damage.

# Towing the Watercraft in Water

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

The maximum recommended towing speed is 32 km/h (20 MPH).

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

**NOTICE** Failure to follow these instructions may result in damage to the engine. If you must tow a stranded watercraft in water, be sure not to exceed the maximum towing speed of 32 km/h (20 MPH).

SPECIAL PROCEDURES

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# **MAINTENANCE**

# **MAINTENANCE SCHEDULE**

Maintenance is very important for keeping the watercraft in a safe operating condition. The watercraft should be serviced as per the maintenance schedule.

# **A** WARNING

Failure to properly maintain the vehicle according to the maintenance schedule and procedures can make it unsafe to operate.

#### EPA Regulation - Canadian and USA Vehicles

A repair shop or person of the owner's choosing may maintain, replace, or repair emission control devices and systems. These instructions do not require components or service by BRP or authorized Sea-Doo dealers.

Although an authorized Sea-Doo dealer has an in-depth technical knowledge and tools to service your vehicle, the emission-related warranty is not conditioned on the use of an authorized Sea-Doo dealer or any other establishment with which BRP has a commercial relationship.

Proper maintenance is the owner's responsibility. A warranty claim may be denied if, among other things, the owner or operator caused the problem through improper maintenance or use.

For emission-related warranty claims, BRP is limiting the diagnosis and repair of emission-related parts to the authorized Sea-Doo dealers. For more information, please refer to the *US EPA EMISSION-RELATED WARRANTY* contained in the *WARRANTY* section.

You must follow the instructions for fuel requirements in the fueling section of this manual. Even if gasoline containing greater than ten volume percent ethanol is readily available, the US EPA issued a prohibition against the use of gasoline containing greater than 10 vol% ethanol that applies to this vehicle. The use of gasoline containing greater than 10 vol% ethanol with this engine may harm the emission control system.

The maintenance schedule does not exempt the Pre-Ride Inspection and Post Operation Care.

#### AFTER EACH RIDE IN SALT OR DIRTY WATER

Rinse engine compartment with fresh water and drain salt water

Flush exhaust system

#### **EVERY MONTH IN SALT OR DIRTY WATER**

Spray anticorrosion lubricant to metallic components in engine compartment (every 10 hours in salt water use)

Inspect sacrificial anodes

#### AFTER FIRST 6 MONTHS OR 50 HOURS (WITCH EVER COMES FIRST)

Replace engine oil and filter (Rotax 1630 ACE engines)

# EVERY YEAR AT PRESEASON OR 100 HOURS OF OPERATION (WHICHEVER COMES FIRST)

Inspect sacrificial anodes

Check for fault codes

Perform all items indicated in the Pre-Ride Inspection and Post Operation Care

Replace engine oil and filter

Inspect engine rubber mounts

Inspect the cooling system (coolant level, hoses and fasteners for leaks)

Visually inspect connection between throttle body and intake manifold

Inspect the air intake for damage on hoses and clamps

Inspect electrical connections and fastening (ignition system, starting system, fuel injectors, fuse box etc.)

Visually inspect area around carbon ring and drive shaft rubber boot for the following signs of failure: black carbon dust and water sprays (more frequently when using PWC in dirty water)

Visually inspect impeller and boot

Visually inspect impeller and wear ring for deep scratches, nicks and grooves

Remove impeller cover and inspect for signs of water intrusion

Visually inspect reverse gate bushing for excessive play

Inspect fuel cap, filler neck, fuel tank, straps, fuel lines and connections

#### EVERY 2 YEARS OR 200 HOURS OF OPERATION (WHICHEVER COMES FIRST)

Replace spark plugs

Inspect flame arrestor (Rotax 900 ACE - 90 engines)

Inspect and lubricate drive shaft/PTO splines (Rotax 900 ACE - 90 engines)

Validate condition of jet pump bearing by manually spinning impeller checking for radial shaft play or noise

Verify and lubricate splines of the drive shaft and impeller

# The following must be performed every 200 hours (irrespective of the number of years):

Inspect, lubricate PTO sleeve and replace oil seal and two water seals. (Inspect for possible leaks or damages on oil seal or on two water seals, and PTO sleeve surface. Lubricate grease chamber (between the two water seals.) (Rotax 900 ACE - 90 engines)

# EVERY 5 YEARS OR 300 HOURS OF OPERATION (WHICHEVER COMES FIRST)

Replace the coolant

# **MAINTENANCE PROCEDURES**

This section includes instructions for basic maintenance procedures.

# **A** WARNING

Turn off the engine and follow these maintenance procedures when performing maintenance. If you do not follow proper maintenance procedures you can be injured by hot parts, moving parts, electricity, chemicals or other hazards.

# WARNING

Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required, always replace with a new one.

**NOTICE** Never leave any object, rag, tool, etc., in the engine compartment or in the bilge.

# **Engine Oil**

#### **Recommended Engine Oil**

Rotax® engines were developed and validated using the XPS™ oil. BRP recommends the use of its XPS engine oil or an equivalent at all time. Do not add any additives to the recommended engine oil. Damages caused by the use of an oil not suitable for the engine or by adding of an additives may not be covered by the BRP Limited Warranty.

XPS RECOMMENDED ENGINE OIL		
Scandinavia	4T 5W40 SYNTHETIC BLEND OIL (EUR) (P/N 779290)	
Other Countries	4T 5W40 SYNTHETIC BLEND OIL (P/N 779133)	
If THE RECOMMENDED XPS ENGINE OIL IS NOT AVAILABLE		
Engine without supercharger	Use a 5W40 4-stroke SAE synthetic engine oil meeting or exceeding the following lubricant industry specifications. Always check the API service label certification on the oil container, it must contain at least one of the indicated standards.  — API service classification SJ, SL, SM or SN	
Engine with supercharger	Use a 5W40 4-stroke SAE motorcycle engine oil compatible with wet clutches meeting or exceeding the following lubricant industry specifications.  Always check the API service label certification on the oil container, it must contain at least one of the indicated standards.  – JASO-MA2  – API service classification SJ, SL, SM or SN	

Do not add any oil additives to the recommended engine oil. Damages caused by the use of an oil not suitable for the engine or by adding of an oil additives may not be covered by the BRP Limited Warranty.

#### **Engine Oil Level**

**NOTICE** Operating the engine with an improper level may severely damage engine.

**CAUTION** Many components in the engine compartment may be very hot. Direct contact may result in skin burn.

Oil level can be checked with watercraft either in or out of water.

If Watercraft is Out of the Water

**NOTICE** Watercraft must be level.

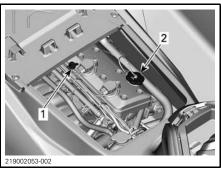
**CAUTION** When operating the engine while the watercraft is out of water, the heat exchanger in the ride plate may become very hot. Avoid any contact with the ride plate as burns may occur.

- 1. Raise trailer tow pole, then block in position when bumper rail is level.
- Install a garden hose on the exhaust system flushing connector. Refer to EXHAUST SYSTEM in this section and follow the procedure.

### NOTICE

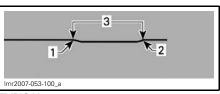
- Never run engine without supplying water to the exhaust system.
   Failure to cool exhaust system may severely damage it.
- Never run engine longer than 2 minutes. Drive line seal has no cooling when watercraft is out of water.
- 3. Remove the seats.
- 4. Start the engine.
- 5. Open the water tap.
- 6. Run the COLD engine at idle for 30 seconds.
- 7. Close water tap.
- 8. Bring engine RPM to 4000-4500 RPM for 15 seconds.

- Stop the engine abruptly by pressing the start/stop button or removing the tether cord.
- Wait at least 30 seconds for the oil to settle in the engine, then pull dipstick out and wipe clean.



TYPICAL

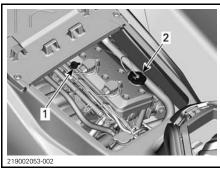
- 1. Oil dipstick
- 2. Oil filler cap
- 11. Reinstall dipstick, push in completely.
- Remove dipstick again and read oil level. It should be between the FULL and ADD marks.



#### **TYPICAL**

- 1. Full
- 2. Add
- 3. Operating range
- 13. Add oil to ensure the level is between marks as required.
  - 13.1 Remove oil cap.
  - 13.2 Place a funnel in valve cover opening.
  - 13.3 Add a small amount of the recommended oil to reach the proper level.

**NOTICE** Do not overfill.



TYPICAL

1. Oil dipstick

2. Oil filler cap

NOTE: Every time oil is added in the engine, the complete procedure explained in this section must be carried out again. Otherwise, you will obtain a false oil level reading.

 Properly reinstall oil cap and dipstick.

**NOTICE** Ensure that oil filler cap is tighten properly. Otherwise engine oil can spill out.

**NOTE:** GTI 90 models have a cap panel under the passenger seat to quickly access the dipstick.



#### Engine Oil Change and Oil Filter Replacement

The oil change and filter replacement may be performed by an authorized Sea-Doo dealer, repair shop, or person of your own choosing.

# **Engine Coolant**

#### **Recommended Engine Coolant**

COUNTRY	RECOMMENDED COOLANT
Scandinavia	EXTENDED LIFE PRE-MIXED COOLANT (EUR) (P/N 779223)
All other countries	EXTENDED LIFE PRE-MIXED COOLANT (P/N 779150)
Alternative, or if not available	If the recommended coolant is not available, use a low silicate, extended life ethylene-glycol premixed coolant (50%-50%) specifically formulated for internal combustion aluminum engines.

**NOTICE** Always use ethylene-gly-col antifreeze containing corrosion inhibitors specifically for internal combustion aluminum engines.

To prevent antifreeze deterioration, always use the same brand and grade. Never mix different brands or grades unless cooling system is completely flushed and refilled.

### **Engine Coolant Level**

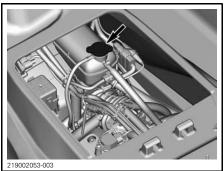
# **A** WARNING

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

**A** CAUTION Many components in the engine compartment may be very hot. Direct contact may result in skin burn.

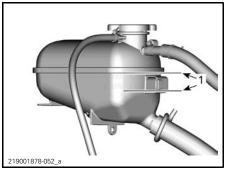
Remove seats.

Locate the expansion tank cap.



TYPICAL

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



COOLANT EXPANSION TANK

1. Level between marks when engine is cold

**NOTE:** The watercraft is level when it is in water. When on a trailer, raise trailer tow pole and block in this position when bumper rail is level.

Add coolant, see *RECOMMENDED ENGINE COOLANT* for specification, to adjust coolant level between marks as required. Use a funnel to avoid spillage. Do not overfill.

Properly tighten the expansion tank cap. Reinstall seats.

NOTE: A cooling system that frequently requires coolant is an indication of leaks or engine problems. See an authorized Sea-Doo dealer.

#### **Engine Coolant Replacement**

Coolant replacement should be performed by an authorized Sea-Doo dealer

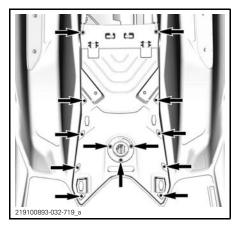
### **Ignition Coils**

#### **Ignition Coil Access**

- 1. Remove seats.
- 2. Remove wake pole cover.



Remove engine service cover by removing the retaining screws.



#### Ignition Coil Removal

1. Disconnect ignition coil connector.

# **NOTICE** Do not pry on ignition coil using any tool.

- 2. Remove ignition coil retaining screw.
- Remove ignition coil from spark plug by rotating coil side to side as you pull up.

### Ignition Coil Installation

- 1. Install ignition coil on spark plug.
- 2. Align the retaining screw hole of the ignition coil with the threaded hole on the valve cover.
- Push the ignition coil all the way down until it rests on the valve cover.
- 4. Install and tighten retaining screw.

TIGHTENING TORQUE		
Ignition coil retaining screw	9 N•m ± 1 N•m (80 lbf•in ± 9 lbf•in)	

5. Reconnect ignition coil connector.

# Spark Plugs

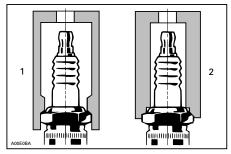
# Spark Plug Removal

1. Remove ignition coil. Refer to *IGNI-TION COIL REMOVAL*.

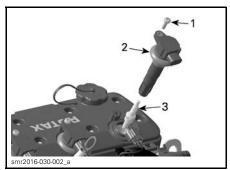
# **A** WARNING

Never remove an ignition coil from a spark plug without disconnecting it from the wiring harness. Flammable vapors may be present in the bilge. Should the tether cord be installed on the engine cut-off switch, a spark could be generated at the coil spark plug end which could cause an explosion.

2. Unscrew spark plug completely using a spark plug socket.



- 1. Approved socket
- 2. Improper socket
- 3. Clean the spark plug and cylinder head with compressed air.
- 4. Use the ignition coil to take spark plug out of its hole.



- 1. Retaining screw
- 2. Ignition coil
- 3. Špark plug

#### **Spark Plug Installation**

Prior to installation, ensure the contact surfaces of the cylinder head and spark plug are free of grime.

- Using a wire feeler gauge, check electrode gap as specified in TECH-NICAL SPECIFICATIONS.
- Apply LOCTITE 767 (ANTISEIZE LU-BRICANT) (P/N 293 800 070) over the spark plug threads to prevent possible seizure.
- Hand screw spark plug into cylinder head. Then, tighten the spark plug to specification with a spark plug socket.

TIGHTENING TORQUE		
Spark plug	900 ACE - 90	13 N•m ± 1 N•m (115 lbf•in ± 9 lbf•in)
plug	1630 ACE	17 N•m ± 1 N•m (150 lbf•in ± 9 lbf•in)

- 4. Install ignition coil. Refer to *IGNI-TION COIL INSTALLATION*.
- 5. Install the engine service cover and tighten the screws to specification.

TIGHTENING TORQUE		
Engine service cover screws	2.75 N•m ± 0.25 N•m (24 lbf•in ± 2 lbf•in)	

Install the seats.

# Exhaust System

### **Exhaust System Flushing**

Flushing the exhaust system and intercooler (supercharged models) with fresh water is essential to neutralize corroding effects of salt or other chemical products present in water. It will help to remove sand, salt, shells or other particles in water jackets and/or hoses.

Flushing the exhaust system with fresh water is essential to neutralize corroding effects of salt or other chem-

ical products present in water. It will help to clean up sand, salt, shells or other particles in water jackets (exhaust system, intercooler (supercharged engines) and hoses).

Exhaust system 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.

**NOTICE** Failure to flush the system, when necessary, will severely damage exhaust system. Make sure engine operates during entire procedure.

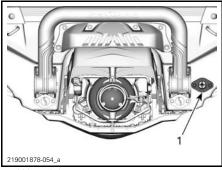
# WARNING

Perform these operations in a well ventilated area. Certain components in the engine compartment may be very hot. Direct contact may result in skin burn. Do not touch any electrical part or jet pump area when engine is running.

# **A** WARNING

When operating the engine while the watercraft is out of the water, the heat exchanger in the ride plate may become very hot. Avoid any contact with ride plate as burns may occur.

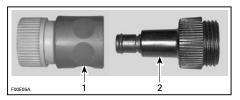
Connect a garden hose to connector located at the rear of watercraft. Do not open water tap yet.



1. Water inlet connector

**NOTE:** The following tool is recommended when a quick connect adapter is used to ease garden hose installation.

# FLUSHING CONNECTOR ADAPTER (P/N 295 500 473)



- 1. Quick connect adapter
- 2. Flushing connector adapter

To flush the exhaust system, start the engine then immediately open the water tap.

**NOTICE** Always start the engine before opening the water tap. Open water tap immediately after engine is started to prevent overheating. Never run engine without supplying water to the exhaust system when watercraft is out of water.

Run the engine 90 seconds at idle.

**NOTICE** Never run engine longer than 2 minutes. Drive line seal has no cooling when watercraft is out of water.

Ensure water flows out of jet pump while flushing.

Close the water tap, run the engine at 5000 rpm for 5 seconds and then stop the engine.

**NOTICE** Always close the water tap before stopping the engine.

Disconnect the garden hose and the flushing connector adapter (if used).

#### Models with 230 Engines

**NOTICE** If watercraft is used in salt water, exhaust system must be flushed daily to avoid serious damage to mechanical components.

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.

# **A** WARNING

Perform this operation in a well ventilated area.

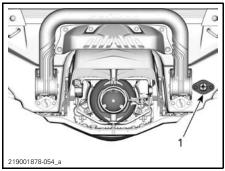
Proceed as follows:

Clean jet pump by spraying water in its inlet and outlet and then apply a coating of XPS Lube or equivalent.

**CAUTION** When operating the engine while the watercraft is out of the water, the heat exchanger in the ride plate may become very hot. Avoid any contact with ride plate as burns may occur.

Connect a garden hose to the connector located at the rear of watercraft. Do not open water tap at this time.

**NOTICE** Always run the engine before opening the water tap. If not, water will get inside the engine.

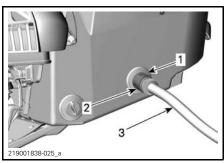


1. Flushing connector location

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



TYPICAL - QUICK CONNECT HOSE ADAPTER



#### TYPICAL

- 1. Hose adapter (optional, not mandatory)
- Quick connect fitting (optional, not mandatory)
- 3. Garden hose

To flush, start engine then immediately open the water tap.

CAUTION Certain components in the engine compartment may be very hot. Direct contact may result in skin burn. Do not touch any electrical parts or jet pump area when engine is running.

**NOTICE** 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 90 seconds at idle speed.

**NOTICE** Never run engine without supplying water to the exhaust system when watercraft is out of water.

Ensure water flows out of jet pump while flushing. Otherwise, refer to an authorized Sea-Doo dealer for servicing.

**NOTICE** Never run engine longer than 2 minutes. Drive line seal has no cooling when watercraft is out of water.

Close the water tap.

Remove the garden hose from the vehicle.

Quickly rev the engine 3-5 times at approximately 5000 RPM.

**NOTICE** Always close the water tap before stopping the engine. If not, water will get inside the engine.

**NOTICE** Remove quick connect adapter after flushing operation (if used).

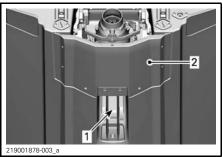
# Ride Plate and Water Intake Grate

# Ride Plate and Water Intake Grate Inspection

Inspect ride plate and jet pump water intake grate for damage. See your Sea-Doo dealer to have any damaged part repaired or replaced.

# **A** WARNING

The tether cord must always be removed from the engine cut-off switch prior to inspecting the intake grate.



INSPECT THESE AREAS

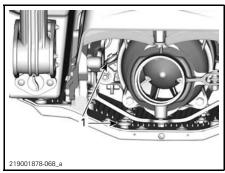
- 1. Water intake
- 2. Ride plate

#### **Sacrificial Anodes**

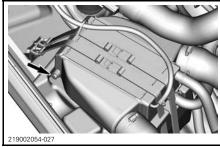
#### Sacrificial Anode Inspection

Sacrificial anodes are present on:

- Pump
- Ride plate
- Intercooler (if equipped).



1. Sacrificial anodes



INTERCOOLER (IF EQUIPPED)

Check for wear. If worn more than half, see an authorized Sea-Doo dealer for anode replacement.

# Ski/Wakeboard Pylon (Wake)

# Ski/Wakeboard Pylon Inspection

Check ski/wakeboard pylon operation. Ensure it slides up and down easily.

Check locking mechanism operation.

Check fasteners tightness. If something is found defective, don't use ski/wakeboard pylon and see an authorized Sea-Doo dealer for repair.

## Ski/Wakeboard Pylon Lubrication

Clean ski/wakeboard pylon and apply a light coat of SUPER LUBE GREASE (P/N 293 550 030) or equivalent.

Lubricate pylon throughout its length.

Wipe off all excess grease and reinstall pylon.

Extend and retract several times to distribute the lubricant.

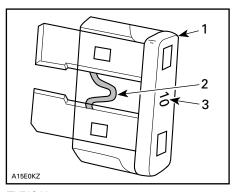
#### **Fuses**

#### **Fuse Removal and Installation**

Use the fuse remover/installer included in the fuse box to ease fuse removal.

#### **Fuse Inspection**

If an electrical problem occurs, check the fuses. If a fuse is burnt, replace by one of the same rating.



#### TYPICAL

- Fuse
- 2. Check if melted
- 3. Ampere rating

# WARNING

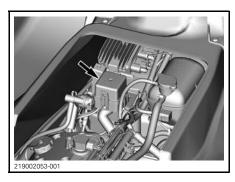
Do not use a higher rated fuse as this can cause severe damage. If a fuse has burnt out, the source of the malfunction should be determined and corrected before restarting. See an authorized Sea-Doo dealer for servicing.

#### **Fuse Location**

All fuses are located inside a single fuse box.

To access the fuse box:

Remove seats.



To remove a fuse box cover, squeeze locking tabs together, hold and pull fuse box cover to open.

**NOTE:** Fuse ratings and positions are illustrated on the fuse box cover.

#### **Fuse Description**

FUSE	RATING	DESCRIPTION
1		Not used
2	15 A	Fuel Inj., Ing. Coils and Fuel Pump
3	3 A	Bilge Pump (if equipped)
4		Not used
5		Not used
6	30 A	Charge
7	5 A	Cluster
8		Not used
9	30 A	iBR
10	5 A	Start/Stop
11	5 A	ECM
12	30 A	Battery
13	15 A	Diagnostic Tool 2
14	15 A	Diagnostic Tool 1, Accessory connector

# WATERCRAFT CARE

Remove the watercraft from the water every day.

# **Post-Operation Care**

#### **Exhaust System Flushing**

The exhaust system should be flushed daily when watercraft is used in salt or foul water.

Refer to *MAINTENANCE PROCE-DURES*.

**NOTE:** On supercharged models, the intercooler is flushed at the same time.

# Additional Care for Foul Water or Salt Water Operation

When the watercraft is operated in foul water and particularly in salt water, additional care should be taken to protect the watercraft and its components.

Rinse watercraft bilge area with fresh water.

Never use a high pressure washer to clean the bilge. USE LOW PRESSURE ONLY (such as a garden hose).

High pressure can cause damages to electrical or mechanical systems.

**A** CAUTION Allow engine to cool before performing any maintenance.

**NOTICE** Failure to perform proper care such as: watercraft rinsing, exhaust 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.

# Watercraft Cleaning

#### **Body and Hull**

Occasionally, wash the hull and various body components with water and soap (use only mild detergent). Remove any

marine organisms from engine and/or hull. Apply non-abrasive wax such as silicone wax.

**NOTICE** Never clean using the following products:

- Strong detergent
- Degreasing agent
- BRP HEAVY DUTY CLEANER (P/N 293 110 001)
- Ammonia
- Acetone or other ketones
- Alcohol
- Toluene or other aromatic solvents
- Chlorinated solvents
- Mineral spirits
- Paint thinners
- Petroleum based products.

Stains may be removed from the seat and fiberglass using CLEANER AND DEGREASER PRO C1 (P/N 779262) or the equivalent.

To clean the carpets, use 3M<sup>™</sup> Citrus Base Cleaner (24 oz spray can) or an equivalent.

# **A** WARNING

Never apply plastic or vinyl protector on the carpets or seat as the surface will become slippery and the occupants may slip off the watercraft.

Respect the environment by ensuring fuel, oil or cleaning solutions do not drain into the waterways.

# STORAGE AND PRESEASON PREPARATION

## **Storage**

# **A** WARNING

Because fuel and oil are flammable, you should have an authorized Sea-Doo dealer, repair shop, or person of your own choosing to inspect the fuel system integrity as specified in the periodic inspection chart.

It is recommended that the watercraft be serviced by an authorized Sea-Doo dealer, repair shop, or person of your own choosing for storage, however the following operations can be performed by you with a minimum of tools.

**NOTE:** Carry out the following tasks in the same order as detailed in this section.

**NOTICE** Do not run the engine during the storage period.

#### **Propulsion System**

# **Jet Pump Cleaning**

Clean jet pump by spraying water in its inlet and outlet and then apply a coat of LUBRICANT AND ANTI-CORROSIVE (P/N 779168) or equivalent.

# **A** WARNING

Always remove tether cord from the engine cut-off switch to prevent unexpected engine starting before cleaning the jet pump area. Engine must not be running for this operation.

#### Jet Pump Inspection

See your authorized Sea-Doo dealer.

#### **Fuel System**

#### **Fuel System Protection**

FUEL STABILIZER (P/N 779171) (or equivalent) should be added in the fuel tank to prevent fuel deterioration and fuel system gumming. Follow stabilizer manufacturers' instructions for proper use.

**NOTICE** It is highly recommended to add fuel stabilizer at storage in order to maintain fuel system in good condition. Fuel stabilizer should be added prior to engine lubrication and fuel tank top up to ensure fuel system components protection against varnish deposits.

Fill up fuel tank completely as explained in *FUELING* section. Make sure there is no water inside fuel tank.

**NOTICE** Should any water be trapped inside fuel tank, severe internal damage will occur to the fuel injection system.

## **Engine and Exhaust**

# **Exhaust System Flushing**

Perform procedure as described in *MAINTENANCE PROCEDURES*.

#### Engine Oil and Filter Replacement

The oil change and filter replacement may be performed by an authorized Sea-Doo dealer, repair shop, or person of your own choosing.

#### Models with 230 Engines

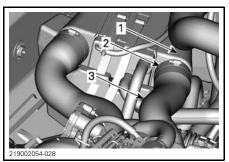
It is important to expel any trapped water that may have accumulated from condensation in the intercooler.

Proceed as follows:

- 1. Lift seat.
- Ensure there is an alignment line drawn on the intercooler inlet hose. This will ensure the hose is not twisted or kinked on reinstallation.

- 3. Loosen the clamp retaining the intercooler inlet hose.
- 4. Remove the intercooler inlet hose from the intercooler.

**NOTE:** This hose feeds the hot, compressed air from the engine supercharger to the intercooler inlet.

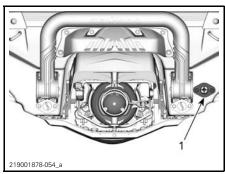


- 1. Hose alignment lines
- 2. Hose clamp
- 3. Intercooler inlet hose
- 5. The intercooler air side is self-draining into the intercooler inlet-side manifold. By disconnecting the intercooler inlet hose, the presence of condensated water can be visually assessed and properly drained off without the engine running.
- 6. Reinstall the intercooler air outlet hose, ensure it is properly aligned as prior to removal to ensure proper engine operation.

#### **Exhaust System Draining**

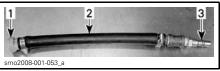
In areas where temperature may freeze, water trapped in the exhaust system and intercooler must be removed.

Using the flushing connector, inject pressurized air at 379 kPa (55 PSI) into system until there is no more water flowing from jet pump.



1. Flushing connector

The following hose can be fabricated to ease draining procedure.



#### TYPICAL

- 1. Flushing connector adapter
- 2. Hose 12.7 mm (1/2 in)
- 3. Air hose male adapter

**NOTICE** Failure to drain the exhaust system may cause severe damage to the intercooler (supercharged models) and exhaust manifold.

Remove special tools.

# **Engine Internal Lubrication**

- 1. Remove the seats.
- 2. Remove ignition coils, refer to *MAINTENANCE PROCEDURES*.
- 3. Remove spark plugs, refer to *MAIN-TENANCE PROCEDURES*.
- 4. Spray LUBRICANT AND ANTI-COR-ROSIVE (P/N 779168) or equivalent in spark plug holes.
- 5. To prevent fuel from being injected and to disable the ignition during engine cranking, fully depress throttle lever and HOLD against handlebar.

- Press the START/STOP button to crank the engine a few turns. This will distribute the oil on the cylinder walls.
- 7. Apply anti-seize lubricant on spark plug threads, then reinstall them in the engine. Refer to *MAINTE-NANCE PROCEDURES*.
- 8. Install the ignition coils, refer to *MAINTENANCE PROCEDURES*.

#### **Engine Coolant Test**

If antifreeze is not replaced, test its density.

The antifreeze replacement and a density test should be performed by an authorized Sea-Doo dealer.

**NOTE:** Antifreeze should be replaced every 300 hours or every 5 years to prevent antifreeze deterioration.

**NOTICE** Improper antifreeze density may result in freezing of the liquid in the cooling system if the watercraft is stored in an area where the freezing point is attained. This would seriously damage the engine.

#### **Electrical System**

#### **Battery Removal and Charging**

Contact your authorized Sea-Doo dealer.

# **A** WARNING

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

# **Engine Compartment**

# **Engine Compartment Cleaning**

Clean the bilge with hot water and detergent or with bilge cleaner. Rinse thoroughly. Lift front end of watercraft to completely drain bilge through the bilge drain plugs.

#### Anticorrosion Treatment

Wipe off any residual water in the engine compartment.

Spray LUBRICANT AND ANTI-COR-ROSIVE (P/N 779168) or equivalent over all metallic components in engine compartment.

**NOTE:** The seat should be removed during storage. This will prevent engine compartment condensation and possible corrosion.

#### **Body and Hull**

#### **Body and Hull Cleaning**

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

# **NOTICE** Never clean using the following products:

- Strong detergent
- Degreasing agent
- BRP HEAVY DUTY CLEANER (P/N 293 110 001)
- Ammonia
- Acetone or other ketones
- Alcohol
- Toluene or other aromatic solvents
- Chlorinated solvents
- Mineral spirits
- Paint thinners
- Petroleum based products.

#### Body and Hull Repair

If any repairs are needed to body components or to the hull, contact your authorized Sea-Doo dealer.

# **Body and Hull Protection**

Apply a good quality marine wax to the body.

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.

**NOTICE** The watercraft should never be left in water for storage. Never leave the watercraft stored in direct sunlight. Never store watercraft in a plastic bag.

#### **Preseason Preparation**

Maintenance preparation must be performed in conjunction with *MAINTE-NANCE SCHEDULE*.

Ensure to perform all tasks included in the 100 HOURS OR 1 YEAR table.

Preseason maintenance preparation may be performed by an authorized Sea-Doo dealer, repair shop or person of your own choosing.

NOTE: Though not required, it is recommended that an authorized Sea-Doo dealer perform preseason maintenance preparation at the same time that any safety-related factory campaigns are performed by the authorized Sea-Doo dealer.

# **A** WARNING

Only perform procedures as detailed in the *MAINTENANCE SCHEDULE*. It is recommended that the assistance of an authorized Sea-Doo dealer be periodically obtained on other components and systems not covered in this guide.

**NOTICE** When component conditions seem less than satisfactory, replace using genuine BRP parts, or equivalents.

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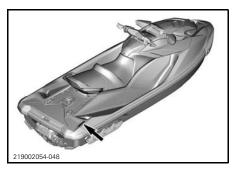
# TECHNICAL INFORMATION

# WATERCRAFT IDENTIFICATION

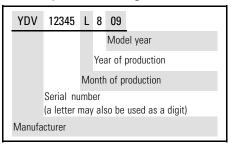
The main components of the watercraft (engine and hull) are identified by different serial numbers. It may sometimes become necessary to locate these numbers for warranty purposes or to trace the watercraft in the event of theft.

#### **Hull Identification Number**

The Hull Identification Number (HIN) is located on footboard at the rear of watercraft.

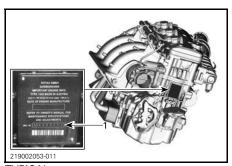


#### It is composed of 12 digits:



# **Engine Identification Number**

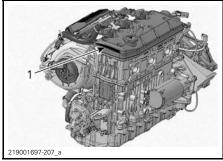
The Engine Identification Number (EIN) is located on the front end of the engine.



TYPICAL

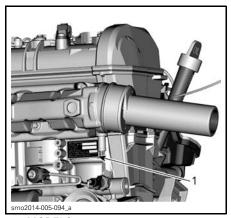
1. Engine Identification Number (EIN)

# **Engine Manufacturer Identification**



EXCEPT 900 MODELS

1. Engine Manufacturer Identification



900 MODELS
1. Engine Identification Number (EIN)



# RF D.E.S.S. KEY

This device complies with FCC Part 15 and Industry Canada license exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IC Registration Number: 12006A-M01456

FCC ID: 2ACERM01456

We, the party responsible for compliance, declare under our sole responsibility that the device is in conformity with the provisions of the following Council Directive: 2014/53/EU. To which this declaration relates is in conformity with the essential requirements and other relevant requirements. The product is in conformity with the following directives, harmonized standards and regulations:

Radio Equipment Directive (RED) 2014/53/EU and Harmonized Standards:

EN 300 330-2, EN 60950-1

# PREMIUM AUDIO SOUND SYSTEM

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, this is no guaranty that interference will occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off or on, you are encouraged to try to correct the interference by one or more of the following measure:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a different circuit than the one to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Mitek Corporation could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

IC Registration Number: 2AAOY278003465

FCC ID: 22793278003465

# MULTIFUNCTION GAUGE REGULATORY INFORMATION

Simplified Declaration of Conformity

Simplified EU Declaration of Conformity according Radio Equipment Directive 2014/53/EU



#### Manufacturer and Address

Manufacturer:

- Robert Bosch LLC

#### Address:

 38000 Hills Tech Drive, Farmington Hills, MI 48331, USA DE

Hiermit erklärt Robert Bosch LLC, dass der Funkanlagentyp VIPCOMGPS der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: eu-doc. bosch.com

FR

Le soussigné, Robert Bosch LLC, déclare que l'équipement radioélectrique du type VIPCOMGPS est conforme à la directive 2014/53/UE.

Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante:eu-doc. bosch.com

BG

С настоящото Robert Bosch LLC декларира, че този тип радиосъоръжение VIPCOMGPS е в съответствие с Директива 2014/53/EC.

Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: eu-doc. bosch.com

EL

Με την παρούσα ο/η Robert Bosch LLC, δηλώνει ότι ο ραδιοεξοπλισμός VIPCOMGPS πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: eu-doc. bosch.com

CS

Tímto Robert Bosch LLC prohlašuje, že typ rádiového zařízení VIPCOMGPS je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: eu-doc.bosch.com

DA

Hermed erklærer Robert Bosch LLC, at radioudstyrstypen VIPCOMGPS er i overensstemmelse med direktiv 2014/53/EU.

 $EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: eu-doc.bosch.com \ ET$ 

Käesolevaga deklareerib Robert Bosch LLC, et käesolev raadioseadme tüüp VIPCOMGPS vastab direktiivi 2014/53/EL nõuetele.

ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: eu-doc.bosch.com

Por la presente, Robert Bosch LLC declara que el tipo de equipo radioeléctrico VIPCOMGPS es conforme con la Directiva 2014/53/UE.

El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: eu-doc. bosch.com

FI

Robert Bosch LLC vakuuttaa, että radiolaitetyyppi VIPCOMGPS on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: eu-doc. bosch.com

ΕN

Hereby, Robert Bosch LLC declares that the radio equipment type VIPCOMGPS is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: eu-doc.bosch.com  ${\sf HR}$ 

Robert Bosch LLC ovime izjavljuje da je radijska oprema tipa VIPCOMGPS u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: eu-doc.bosch.com HU

Robert Bosch LLC igazolja, hogy a VIPCOMGPS típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: eu-doc.bosch.com IT

Il fabbricante, Robert Bosch LLC, dichiara che il tipo di apparecchiatura radio VIPCOMGPS è conforme alla direttiva 2014/53/UE.

Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: eu-doc. bosch.com

219002054-701

Aš, Robert Bosch LLC, patvirtinu, kad radijo jrenginių tipas VIPCOMGPSS atitinka Direktyvą 2014/53/ES.

Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: eu-doc.bosch.com

Ar šo Robert Bosch LLC deklarē, ka radioiekārta VIPCOMGPS atbilst Direktīvai 2014/53/ES.

Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: eu-doc.bosch.com

B'dan, Robert Bosch LLC, niddikjara li dan it-tip ta' tagħmir tar-radju VIPCOMGPS huwa konformi mad-Direttiva 2014/53/UF

It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej: eu-doc.

bosch.com

NL

Hierbij verklaar ik, Robert Bosch LLC, dat het type radioapparatuur VIPCOMGPS conform is met Richtlijn

De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: eu-doc. bosch.com

Robert Bosch LLC niniejszym oświadcza, że typ urządzenia radiowego VIPCOMGPS jest zgodny z dyrektywą 2014/53/UF

Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: eu-doc.bosch.com

O(a) abaixo assinado(a) Robert Bosch LLC declara que o presente tipo de equipamento de rádio VIPCOMGPS está em conformidade com a Diretiva 2014/53/UE.

O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: eu-doc. bosch.com

RO

Prin prezenta, Robert Bosch LLC declară că tipul de echipamente radio VIPCOMGPS este în conformitate cu Directiva 2014/53/UE.

Textul integral al declaratiei UE de conformitate este disponibil la următoarea adresă internet: eu-doc.bosch.com

Härmed försäkrar Robert Bosch LLC att denna typ av radioutrustning VIPCOMGPS överensstämmer med direktiv 2014/53/FU

Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: eu-doc.bosch.com

Robert Bosch LLC potrjuje, da je tip radijske opreme VIPCOMGPS skladen z Direktivo 2014/53/EU.

Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: eu-doc.bosch.com

Robert Bosch LLC týmto vyhlasuje, že rádiové zariadenie typu VIPCOMGPS je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: eu-doc.bosch.com

Robert Bosch LLC lýsir því hér með yfir að þráðlausi fjarskiptabúnaðurinn VIPCOMGPS er í samræmi við tilskipun 2014/53/ESB.

Óstyttan texta ESB-samræmisyfirlýsingarinnar er að finna á veffanginu: eu-doc.bosch.com

Hiermit erklärt Robert Bosch LLC, dass der Funkanlagentyp VIPCOMGPS der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: eu-doc. bosch.com

Hermed erklærer Robert Bosch LLC at radioutstyrstypen VIPCOMGPS er i samsvar med direktiv 2014/53/EU. Hele teksten i EU-samsvarserklæringen finnes på følgende internettadresse: eu-doc.bosch.com

219002054-702

## **ENGINE EMISSIONS INFORMATION**

# Manufacturer's Responsibility

Beginning with 1999 model year engines, PWC manufacturers of marine engines must determine the exhaust emission levels for each engine horse-power family and certify these engines with the United States of America Environmental Protection Agency (EPA). An emissions control information label, showing emission levels and engine specifications, must be placed on each watercraft at the time of manufacture.

# **Dealer's Responsibility**

When performing service on all 1999 and more recent Sea-Doo watercraft that carry an emissions control information label, adjustments must be kept within published factory specifications.

Replacement or repair of any emission related component must be executed in a manner that maintains emission levels within the prescribed certification standards.

Dealers are not to modify the engine in any manner that would alter the horsepower or allow emission levels to exceed their predetermined factory specifications.

Exceptions include manufacturer's prescribed changes, such as altitude adjustments for example.

# **Owner Responsibility**

The owner/operator is required to have engine maintenance performed to maintain emission levels within prescribed certification standards.

The owner/operator is not to, and should not allow anyone to modify the engine in any manner that would alter the horsepower or allow emissions levels to exceed their predetermined factory specifications.

# **EPA Emission Regulations**

All 1999 and more recent Sea-Doo watercraft manufactured by BRP are certified to the EPA as conforming to the requirements of the regulations for the control of air pollution from new watercraft engines. This certification is contingent on certain adjustments being set to factory standards. For this reason, the factory procedure for servicing the product must be strictly followed and, whenever practicable, returned to the original intent of the design.

The responsibilities listed above are general and in no way a complete listing of the rules and regulations pertaining to the EPA requirements on exhaust emissions for marine products. For more detailed information on this subject, you may contact:

U.S. Environmental Protection Agency Certification Division Gasoline Engine Compliance Center 2000 Traverwood Drive Ann Arbor MI 48105 USA

**EPA INTERNET WEB SITE:** www.epa.gov/otaq

# EVAPORATIVE EMISSION CONTROL SYSTEM

Starting with MY 2018; personal watercraft sold in the State of California are certified to the California evaporative emissions regulations for spark ignition marine watercraft of the California Air Resources Board (13 CCR 2850 to 2869). These models are equipped with an evaporative emission control system consisting of Low Permeation Fuel Tank (LPFT), Low Permeation Fuel Line (LPFL) and a Pressure Relief Valve (PRV).

# **EAC DECLARATION OF CONFORMITY**

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# **SPECIFICATIONS**

# Rotax 1630 ACE - 130, Rotax 1630 ACE - 170 and 1630 ACE - 230 engines

ENGINE		
Engine type		4-stroke, Single Over Head Camshaft (SOHC)
	Rotax 1630 ACE - 130	100 kW @ 7300 RPM
Declared Power <sup>(1)</sup>	Rotax 1630 ACE - 170	125.03 kW @ 8000 RPM
	1630 ACE - 230	169.16 kW @ 8000 RPM
Induction	Rotax 1630 ACE - 130 Rotax 1630 ACE - 170	Naturally-Aspirated
	1630 ACE - 230	Supercharged intercooled
Number of cylinders		3
Number of valves		12 valves with hydraulic lifters (no adjustment)
Bore		100 mm (3.9 in)
Stroke		69.2 mm (2.7 in)
Displacement		1 630.5 cm³ (99.5 in³)
Compression ratio	Rotax 1630 ACE - 130 Rotax 1630 ACE - 170	11:1
	1630 ACE - 230	8.3:1

<sup>(1)</sup> Declared power as per ISO 8665 at propeller-shaft.

LUBRICATION SYSTEM			
Recommended oil Engine oil		130 engine 170 engine 230 engine	Scandinavia: 4T 5W40 SYNTHETIC BLEND OIL (EUR) (P/N 779290) All other countries: 4T 5W40 SYNTHETIC BLEND OIL (P/N 779133)
	Alternate oil if XPS products are not available	If not available, use a 5W40 motor oil that meets the requirements for API service classification SJ, SL, SM or SN. Refer to RECOMMENDED ENGINE OIL	
	Capacity		3 L (3.2 qt (U.S. liq.)) oil change w/filter 4.8 L (5.1 qt (U.S. liq.))total

COOLING SYSTEM		
Туре		Closed loop cooling system
	Scandinavia	EXTENDED LIFE PRE-MIXED COOLANT (EUR) (P/N 779223)
	All other countries	EXTENDED LIFE PRE-MIXED COOLANT (P/N 779150)
Coolant	Alternative, or if not available	Use a low silicate, extended life ethylene-glycol premixed coolant (50%-50%) specifically formulated for internal combustion aluminum engines.
Cooling system capacity		5.4 L (5.71 qt (U.S. liq.)) total

FUEL SYSTEM		
Fuel injection type		Multipoint fuel injection with iTC (intelligent Throttle Control). Single throttle body (60 mm) with an actuator
Fuel type	Regular unleaded gasoline - Refer to <i>FUEL</i> <i>REQUIREMENTS</i>	87 ((RON + MON)/2) inside North America 91 (RON) E10 outside North America
Fuel tank capacity (including reserve)		60 L (15.9 U.S. gal.)

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ELECTRICAL SYSTEM			
Ignition system type			IDI (Inductive Discharge Ignition)
Battery			12 V, 18 A∙h
Spark plug	Make and type		NGK, DCPR8E with solid post or equivalent
Spark plug	Gap		0.80 mm to 0.90 mm (.031 in to .035 in)
Capacity			135 ml (4.6 U.S. oz)
PROPULSION			
Jet pump	Туре		Axial flow single stage
Drive shaft	Coupling t	ype	Crowned splines, direct drive
IBR AND VTS			
VTS system			Electronically-controlled through the VTS control button with 3 preset positions
WEIGHT AND LOADING CAPACITY			
WEIGHT / HTD EG/ IBHTG	CAPACITY		
Dry weight	CAPACITY	GTI 130 GTI SE 130 GTI SE 170	335 kg (739 lb)
	CAPACITY	GTI SE 130 GTI SE	335 kg (739 lb) 351 kg (774 lb)
	CAPACITY	GTI SE 130 GTI SE 170	
		GTI SE 130 GTI SE 170 GTR 230 Wake	351 kg (774 lb)
Dry weight	ver incl.)	GTI SE 130 GTI SE 170 GTR 230 Wake 170	351 kg (774 lb) 339 kg (747 lb)
Dry weight  Number of passenger (driv	ver incl.)	GTI SE 130 GTI SE 170 GTR 230 Wake 170	351 kg (774 lb) 339 kg (747 lb)
Dry weight  Number of passenger (driv	ver incl.)	GTI SE 130 GTI SE 170 GTR 230 Wake 170	351 kg (774 lb) 339 kg (747 lb) 3 272 kg (600 lb)
Dry weight  Number of passenger (driv Load limit (passenger(s) ar Storage capacity	ver incl.)	GTI SE 130 GTI SE 170 GTR 230 Wake 170	351 kg (774 lb) 339 kg (747 lb) 3 272 kg (600 lb)
Dry weight  Number of passenger (driv Load limit (passenger(s) ar Storage capacity  DIMENSIONS	ver incl.)	GTI SE 130 GTI SE 170 GTR 230 Wake 170	351 kg (774 lb) 339 kg (747 lb) 3 272 kg (600 lb) 160.8 L (42.5 U.S. gal.)

#### SPECIFICATIONS

MATERIALS	
Impeller material	Stainless steel
Impeller housing/stator	Aluminum/aluminum

# Rotax 900 ACE - 90 engines

ENGINE	
Engine type	4-stroke, Single Over Head Camshaft (SOHC)
Declared Power <sup>(1)</sup>	66.19 kW @ 8000 RPM
Induction	Naturally-Aspirated
Number of cylinders	3
Number of valves	12 valves with hydraulic lifters (no adjustment)
Bore	74 mm (2.9 in)
Stroke	69.7 mm (2.7 in)
Displacement	899.3 cm³ (54.9 in³)
Compression ratio	11.0:1

<sup>(1)</sup> Declared power as per ISO 8665 at propeller-shaft.

LUBRICATION SYSTEM		
	Recommended oil	Scandinavia: 4T 5W40 SYNTHETIC BLEND OIL (EUR) (P/N 779290) All other countries: 4T 5W40 SYNTHETIC BLEND OIL (P/N 779133)
Engine oil	Alternate oil if XPS products are not available	If not available, use a 5W40 motor oil that meets the requirements for API service classification SJ, SL, SM or SN. Refer to RECOMMENDED OIL
	Capacity	3 L (3.2 qt (U.S. liq.)) oil change w/filter 5 L (5.3 qt (U.S. liq.))total

COOLING SYSTEM		
Туре	_	Closed loop cooling system
	Scandinavia	EXTENDED LIFE PRE-MIXED COOLANT (EUR) (P/N 779223)
	All other countries	EXTENDED LIFE PRE-MIXED COOLANT (P/N 779150)
Coolant	Alternative, or if not available	Use a low silicate, extended life ethylene-glycol premixed coolant (50%-50%) specifically formulated for internal combustion aluminum engines.
Cooling system capacity		4 L (4.23 qt (U.S. liq.)) total
FUEL SYSTEM		
Fuel injection type		Multipoint fuel injection with iTC (intelligent Throttle Control). Single throttle body (60 mm (2.36 in)) with an actuator
Fuel type	Premium unleaded gasoline - Refer to <i>FUEL</i> <i>REQUIREMENTS</i>	87 Pump Posted AKI (RON+MON)/2 (Inside North America) 91 (RON) E10 (Outside North America)
Fuel tank capacity (including reserve)		60 L (15.9 U.S. gal.)
ELECTRICAL SYSTEM		
Ignition system type		IDI (Inductive Discharge Ignition)
Battery		Sealed, 12 V, 18 A•h
Sports plug	Make and type	NGK, CR8EB with solid post or equivalent
Spark plug	Gap	0.7 mm to 0.8 mm (.028 in to .031 in)
PROPULSION		
Jet pump	Туре	Axial flow single stage
Drive shaft	Coupling type	Crowned splines, direct drive
		-

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WEIGHT AND LOADING CAPACITY	
Dry weight	303 kg (668 lb)
Number of passenger (driver incl.)	3
Load limit (passenger and luggage)	272 kg (600 lb)
Storage capacity	160.8 L (42.5 U.S. gal.)

DIMENSIONS	
Overall length	331.8 cm (130.6 in)
Overall width	125 cm (49.2 in)
Overall height	114 cm (44.9 in)

MATERIALS		
Impeller material	Stainless steel	
Impeller housing/stator	Aluminum/aluminum	

**NOTE:** BRP 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.

SPECIFICATIONS

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# **TROUBLESHOOTING**

# TROUBLESHOOTING GUIDELINES

#### **ENGINE WILL NOT START**

- 1. Tether cord removed.
  - Press START/STOP button.
  - Install tether cord cap over engine cut-off switch within 5 seconds after depressing the START/STOP button.
  - Press START/STOP button.
- 2. ECM does not recognize the D.E.S.S. key.
  - Refer to an authorized Sea-Doo dealer.
- 3. Burnt fuse: main, electric starter or ECM.
  - Check wiring then replace fuse(s).
- 4. Discharged battery.
  - Refer to an authorized Sea-Doo dealer.

# **A** WARNING

Do not charge or boost the battery while installed on the watercraft. Electrolyte is poisonous and dangerous. Avoid contact with eyes, skin and clothing.

- 5. Battery connections, corroded or loose. Bad ground.
  - Refer to an authorized Sea-Doo dealer.
- 6. Water-flooded engine.
  - Refer to WATER-FLOODED ENGINE in SPECIAL PROCEDURES.
- 7. Faulty sensor or ECM.
  - Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.
- 8. Seized jet pump.
  - Try to clean. Otherwise, refer to an authorized Sea-Doo dealer.

#### **ENGINE CRANKS SLOWLY**

- 1. Loose battery cable connections.
  - Check/clean/tighten.
- 2. Discharged or weak battery.
  - Refer to an authorized Sea-Doo dealer.
- 3. Worn starter.
  - Refer to an authorized Sea-Doo dealer.

#### ENGINE TURNS NORMALLY BUT WILL NOT START

- 1. Fuel tank empty or water-contaminated.
  - Refill. Siphon and fill with fresh fuel.

#### ENGINE TURNS NORMALLY BUT WILL NOT START (cont'd)

- 2. Fouled/defective spark plugs.
  - Replace.
- 3. Blown fuse.
  - Check wiring then replace fuse(s).
- 4. Water-flooded engine.
  - Refer to WATER-FLOODED ENGINE in SPECIAL PROCEDURES.
- Engine management system fault detected (check engine pilot lamp is ON).
  - Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.
- 6. Faulty fuel pump.
  - Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.

#### ENGINE MISFIRES, RUNS IRREGULARLY

- 1. Fouled/defective/worn spark plugs.
  - Replace.
- 2. Fuel: Level too low, stale or water-contaminated.
  - Siphon and/or refill.
- 3. Faulty ignition coil(s).
  - Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.
- 4. Clogged injectors.
  - Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.
- Engine management system fault detected (check engine pilot lamp is ON).
  - Refer to MONITORING SYSTEM.

#### **ENGINE SMOKE**

- 1. Oil level too high.
  - Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.

#### ENGINE SMOKE (cont'd)

- 2. Water ingestion, coolant leak or damaged cylinder head gasket.
  - Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.
- 3. Internal engine damage.
  - Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.

#### **ENGINE OVERHEATS**

- 1. Clogged exhaust system.
  - Flush exhaust system.
- 2. Engine coolant level too low.
  - Refer to MAINTENANCE PROCEDURES.
- 3. Quick connect adapter left in flushing connector.
  - Remove adapter from flushing connector and retry watercraft. If problem persists, seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.

#### ENGINE LACKS ACCELERATION OR POWER

- 1. Learning key used.
  - Use a Normal key.
- 2. Not in Sport mode.
  - Select Sport mode.
- 3. Jet pump water intake clogged.
  - Clean. Refer to JET PUMP WATER INTAKE AND IMPELLER CLEANING in SPECIAL PROCEDURES section.
- 4. Damaged impeller or worn-out wear ring.
  - Replace. Refer to an authorized Sea-Doo dealer.
- 5. Engine oil level too high.
  - Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSIONS-RELATED WARRANTY contained herein for information about warranty claims.
- 6. Weak spark.
  - Refer to ENGINE MISFIRES, RUNS IRREGULARLY.
- Engine management system fault detected (check engine pilot lamp is ON).
  - Refer to MONITORING SYSTEM.

#### ENGINE LACKS ACCELERATION OR POWER (cont'd)

#### Clogged injectors.

 Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.

#### 9. Low fuel pressure.

 Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.

#### 10.Water in fuel.

Siphon and replace.

#### 11Engine damaged by water ingestion.

Refer to an authorized Sea-Doo dealer.

#### WATERCRAFT CAN NOT REACH TOP SPEED

- 1. Jet pump water intake clogged.
  - Clean. Refer to JET PUMP WATER INTAKE AND IMPELLER CLEANING in SPECIAL PROCEDURES section.
- Damaged impeller or worn-out wear ring.
  - Replace. Refer to an authorized Sea-Doo dealer.
- Engine management system fault detected (check engine pilot lamp is ON).
  - Refer to MONITORING SYSTEM.
- 4. Faulty supercharger and/or intercooler (supercharged models).
  - Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSION-RELATED WARRANTY contained herein for information about warranty claims.

#### WATERCRAFT STAYS IN NEUTRAL AFTER OPERATING THE IBR LEVER

- 1. The iBR gate stays in neutral.
  - Release the throttle to idle RPM.
  - Press the Speed Control button to activate the slow speed mode.
  - Return to shore using the slow speed mode. Refer to an authorized Sea-Doo dealer.

#### **IBR WILL NOT RETURN TO NEUTRAL POSITION (IBR INDICATOR LIGHT ON)**

- 1. iBR jammed with debris.
  - Clean and check for damage in the iBR gate and nozzle area.
- 2. iBR system malfunction.
  - Remove tether cord, wait four minutes, reinstall key and check iBR light to ensure fault is cleared.
  - Refer to an authorized Sea-Doo dealer if fault persists or reoccurs frequently.

#### **IBR WILL NOT RETURN TO NEUTRAL POSITION (IBR INDICATOR LIGHT OFF)**

- 1. Throttle lever not fully released during operation.
  - Release throttle lever fully to ensure iBR gate returns to neutral.
- 2. Throttle lever does not fully return to null when released.
  - Refer to an authorized Sea-Doo dealer.

#### ABNORMAL NOISE FROM PROPULSION SYSTEM

- 1. Weeds or debris jammed around impeller.
  - Clean. Refer to JET PUMP WATER INTAKE AND IMPELLER CLEANING in SPECIAL PROCEDURES section.
  - Check for damage.
- 2. Damaged impeller shaft or drive shaft.
  - Refer to an authorized Sea-Doo dealer.
- 3. Water intrusion in jet pump causing bearing seizure.
  - Refer to an authorized Sea-Doo dealer.

#### WATER FOUND IN BILGE

- 1. Bailer system malfunction.
  - Have system inspected by an authorized Sea-Doo dealer.
- 2. Exhaust system leak.
  - Refer to an authorized Sea-Doo dealer.
- 3. Carbon ring at drive shaft worn.
  - Refer to an authorized Sea-Doo dealer.

# MONITORING SYSTEM

A system monitors the electronic components of the EMS (engine management system) iBR, and other components of the electrical system. When a fault occurs, it sends visual messages through the information center and/or audible signals through a beeper to inform you of a particular condition.

A fault code may also be recorded.

When a minor or transient fault occurs, the fault message and beeper will cease automatically if the condition that caused the fault does not exist anymore.

Releasing the throttle and letting the engine return to idle speed may allow normal operation to come back. If this does not work, try removing and reinstalling the tether cord on the engine cut-off switch.

The electronic system will react differently depending on the fault type. In severe failure, the engine may not be allowed to be started. In other cases, the engine will operate in limp home mode (reduced speed).

When a fault occurs, please refer to the US EPA EMISSION-RELATED WAR-RANTY contained herein for information about warranty claims.

# **Fault Codes**

When a fault occurs, a numerical fault code may be recorded depending on the fault type and system.

These fault codes are used by authorized Sea-Doo dealers for troubleshooting the watercraft systems when comparing them to a fault list.

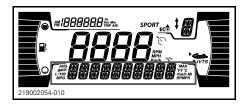
Fault codes can be viewed in the information center multifunction display however, this function is only available if a fault is still active.

If there is an active fault code, it may be viewed by the operator on the multifunction display. The operator may then choose to call his authorized Sea-Doo dealer to pass on the fault code. The dealer will then advise the operator on the steps to take to solve the problem, or to stop using the watercraft and to bring it in to the dealer for repairs.

#### **Displaying Fault Codes**

Select **CODES**. If a fault code has occurred during your riding cycle, a CODES menu will be available in the settings menu. Press OK to see the list of faults.

NOTE: During normal riding conditions some fault codes may occur. Before contacting your local dealer, remove the key, make sure to wait 2 minutes until the electrical system shut down, then press start to wake up the electrical system. This will ensure occurred fault to disappear and only the active codes will remain ON in the CODES menu.



# **Indicator Lights and Message Display Information**

The indicator lights (pilot lamps) and messages displayed in the information center will inform you of a particular condition or if an anomaly occurs.

For information on usual indicator lights, refer to INFORMATION CENTER (GAUGE).

INDICATOR LIGHT / ICON (ON)	MESSAGE DISPLAY	DESCRIPTION
- +	LOW or HIGH BATTERY VOLTAGE	Low/high battery voltage
<b>₩</b>	HIGH TEMPERATURE	Engine or exhaust system overheating
(Ē)	CHECK ENGINE or LIMP HOME MODE	Check engine (minor fault req. maint.) or LIMP HOME MODE (major eng. fault)
٧٠٠٠	LOW OIL PRESSURE	Low oil pressure
N/A	IBR MODULE ERROR	Light is steady with a buzzer and a check engine light: iBR system fault (refer to an authorized Sea-Doo dealer)
	-	Light is flashing: iBR system fault (refer to an authorized Sea-Doo dealer)
	-	Light is steady with no buzzer: iBR system still functional but needs to be inspected by an authorized Sea-Doo dealer

MESSAGE DISPLAY INFORMATION		
HIGH EXHAUST TEMPERATURE	High exhaust temperature detected	
HIGH ENGINE TEMPERATURE	High engine temperature detected	
CHECK ENGINE	Engine system malfunction or maintenance required	
LIMP HOME MODE	Major fault detected, engine power limited	
FUEL SENSOR FAULT	Fuel level sensor fault	
IBR MODULE ERROR	iBR system malfunction	
MAINTENANCE REQUIRED	Watercraft maintenance required	

**NOTICE** Running engine with low oil pressure may severely damage the engine.

#### **Beeper Code Information**

BEEPER CODES	DESCRIPTION			
	Bad D.E.S.S. system connection. Reinstall tether cord cap correctly on the engine cut-off switch.			
1 long beep (while installing tether cord on watercraft engine cut-off switch)	Wrong D.E.S.S. key. Use a tether cord that has been programmed for the watercraft.			
	Defective D.E.S.S. key. Use another tether cord with programmed D.E.S.S. key.			
	Defective engine cut-off switch. Refer to an authorized Sea-Doo dealer.			
	Improper operation of ECM or defective wiring harness. Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSIONS-RELATED WARRANTY contained herein for information about warranty claims.			
A 2 seconds beep every 15 minutes interval	Engine management system fault.  Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the <i>US EPA EMISSIONS-RELATED WARRANTY</i> contained herein for information about warranty claims.			
	iBR system fault. Refer to an authorized Sea-Doo dealer.			
A 2 seconds beep every 10 minutes interval	Low fuel level. Refill fuel tank. If problem persists, refer to an authorized Sea-Doo dealer.			
	High engine temperature coolant. See <i>ENGINE OVERHEATING</i> .			
2 second beeps	Low oil pressure.  Turn off engine as soon as possible. Check oil level and refill. Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the US EPA EMISSIONS-RELATED WARRANTY contained herein for information about warranty claims.			
Constant beep (Stops when vehicle is turned OFF)	High exhaust temperature. Seek service from an authorized Sea-Doo dealer, repair shop, or person of your own choosing for maintenance, repair, or replacement. Please refer to the <i>US EPA EMISSIONS-RELATED WARRANTY</i> contained herein for information about warranty claims.			

MONITORING SYSTEM

**NOTICE** If the monitoring beeper continuously sounds, stop engine as soon as possible.

## **WARRANTY**

## BRP LIMITED WARRANTY – USA AND CANADA: 2020 SEA-DOO® PERSONAL WATERCRAFT

#### 1. SCOPE

Bombardier Recreational Products Inc. ("BRP")\* warrants its model-year 2020 Sea-Doo personal watercraft sold by authorized BRP Dealers (as defined below) in the United States of America ("USA") and in Canada from defects in material or workmanship for the period and under the conditions described below. This limited warranty will become null and void if: (1) the Sea-Doo personal watercraft was used for racing or any other competitive activity, at any point, even by a previous owner; or (2) the Sea-Doo personal watercraft has been altered or modified in such a way so as to adversely affect its operation, performance or durability, or has been altered or modified to change its intended use.

Non-factory installed parts and accessories are not covered under this limited warranty. Please refer to the applicable parts and accessories limited warranty text.

#### 2. LIMITATIONS OF LIABILITY

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 A PARTICULAR PURPOSE. TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME STATES/PROVINCES DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND EXCLUSIONS IDENTIFIED ABOVE, AS A RESULT, THEY MAY NOT APPLY TO YOU. 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.

Neither the distributor, any BRP dealer nor any other person has been authorized to make any affirmation, representation or warranty regarding the product, other than those contained in this limited warranty, and if made, shall not be enforceable against BRP. BRP reserves the right to modify this limited warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the products sold while this warranty is in effect.

#### 3. EXCLUSIONS – ARE NOT WARRANTED

The following are not warranted under any circumstances:

- Normal wear and tear;
- Routine maintenance items, tune ups, adjustments;
- Damage caused by failure to provide proper maintenance and/or storage, as described in the Operator's Guide;
- Damage resulting from removal of parts, improper repairs, service, maintenance, modifications or use of parts not manufactured or approved by BRP or resulting from repairs done by a person that is not an authorized servicing BRP dealer:
- Damage caused by abuse, abnormal use, neglect, or operation of the product in a manner inconsistent with the recommended operation described in the Operator's Guide;

- Damage resulting from accident, submersion, fire, theft, vandalism or any act of God:
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the Operator's Guide);
- Damage from rust, corrosion or exposure to the elements;
- Damage from cooling system or jet pump blockage by foreign material;
- Water damages caused by water ingestion;
- Damages related to gel coat finish including but not limited to cosmetic gel coat finish, blisters or fiberglass delamination caused by blisters, crazing, spider or hairline cracks; and
- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income.

#### 4. WARRANTY COVERAGE PERIOD

This limited warranty will be in effect from (1) the date of delivery to the first retail consumer or (2) the date the product is first put into use, whichever occurs first and for the applicable period below:

- 1. TWELVE (12) CONSECUTIVE MONTHS for private use owners.
- 2. FOUR (4) CONSECUTIVE MONTHS for commercial use owners. A personal watercraft is used commercially when it is used in connection with generating income or any work or employment during any part of the warranty period. A personal watercraft is also used commercially when, at any point during the warranty period, it has commercial tags or is licensed for commercial use. This is a minimal warranty period which can be extended by any applicable warranty promotional program, as the case may be.
- 3. For emission-related components; please also refer to the *US EPA EMISSION-RELATED WARRANTY* contained herein.
- 4. For Sea-Doo personal watercrafts produced by BRP for sale in the State of California or New York that are originally sold to a resident or subsequently warranty registered to a resident in the State of California or New York, please also refer to the applicable California and New York Emissions Control Warranty Statement contained herein.
- 5. For Sea-Doo personal watercrafts produced by BRP for sale in the State of California that are originally sold to a resident or subsequently warranty registered to a resident in the State of California, please also refer to the CALIFORNIA EVAPORATIVE EMISSIONS CONTROL SYSTEM WARRANTY STATEMENT contained herein.

The repair or replacement of parts or the performance of service under any applicable warranty does not extend the life of such warranty beyond its original expiration date.

#### 5. CONDITIONS REQUIRED FOR WARRANTY COVERAGE

This limited warranty coverage is available **only** if **each** of the following conditions has been fulfilled:

- The 2020 Sea-Doo personal watercraft must be purchased as new and unused by its first owner from a BRP dealer authorized to distribute Sea-Doo personal watercraft in the country in which the sale occurred;
- The BRP specified predelivery inspection process must be completed and documented and signed by the purchaser;
- The 2020 Sea-Doo personal watercraft must have undergone proper registration by an authorized BRP dealer;
- The 2020 Sea-Doo personal watercraft must be purchased in the country in which the purchaser resides; and
- Routine maintenance outlined in the Operator's Guide must be timely performed in order to maintain warranty coverage. BRP reserves the right to make warranty coverage contingent upon proof of proper maintenance.

BRP will not honour this limited warranty to any private use owner or commercial use owner if one of the preceding conditions has not been met. Such limitations are necessary in order to allow BRP to preserve both the safety of its products, and also that of its consumers and the general public.

#### 6. WHAT TO DO TO OBTAIN WARRANTY COVERAGE

The customer must cease using the Sea-Doo personal watercraft upon the appearance of an anomaly. The customer must notify an authorized servicing BRP dealer within three (3) days of the appearance of a defect, and provide it with reasonable access to the product and reasonable opportunity to repair it. The customer must also present to the authorized BRP dealer, proof of purchase of the product and must sign the repair/work order prior to the start of the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of BRP.

#### 7. WHAT BRP WILL DO

BRP's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine BRP parts without charge for parts and labor, at any authorized BRP dealer during the applicable warranty coverage period under the conditions described herein. No claim of breach of warranty shall be the cause for cancellation or rescission of the sale of the Sea-Doo personal watercraft to the owner.

In the event that service is required outside of the country of original sale, the owner will bear responsibility for any additional charges due to local practices and conditions, such as, but not limited to freight, insurance, taxes, license fees, import duties, and any and all other financial charges, including those levied by governments, states, territories and their respective agencies.

BRP reserves the right to improve or modify products from time to time without assuming any obligation to modify products previously manufactured.

#### 8. TRANSFER

If the ownership of a product is transferred during the warranty coverage period, this limited warranty, subject to its terms and conditions, shall also be transferred and be valid for the remaining coverage period provided BRP or an authorized Sea-Doo Distributor/Dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the co-ordinates of the new owner.

#### 9. CONSUMER ASSISTANCE

In the event of a controversy or a dispute in connection with this BRP limited warranty, BRP suggests that you try to resolve the issue at the dealership level. We recommend discussing the issue with the authorized BRP dealer's service manager or owner.

If the matter still remains unresolved, contact BRP by filling out the customer contact form at www.brp.com or contact BRP by mail at one of the addresses listed under the *CONTACT US* section of this guide.

<sup>\*</sup> In the USA, products are distributed and serviced by BRP US Inc.

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#### US EPA EMISSION-RELATED WARRANTY

Bombardier Recreational Products Inc. ("BRP")\*\* warrants to the ultimate purchaser and each subsequent purchaser that this new engine, including all parts of its exhaust emission control system and its evaporative emission control system, meets two conditions:

- 1. It is designed, built, and equipped so it conforms at the time of sale to the ultimate purchaser with the requirements of 40 CFR 1045 and 40 CFR 1060.
- 2. It is free from defects in materials and workmanship that may keep it from meeting the requirements of 40 CFR 1045 and 40 CFR 1060.

Where a warrantable condition exists, BRP will repair or replace, as it elects, any part or component with a defect in materials or workmanship that would increase the engine's emissions of any regulated pollutant within the stated warranty period at no cost to the owner, including expenses related to diagnosing and repairing or replacing emission-related parts. All defective parts replaced under this warranty become the property of BRP.

For all emission-related warranty claims, BRP is limiting the diagnosis and repair of emission-related parts to the authorized Sea-Doo dealers, unless for emergency repairs as required by item 2 of the following list.

As a certifying manufacturer, BRP will not deny emission-related warranty claims based on any of the following:

- 1. Maintenance or other service BRP or BRP's authorized facilities performed.
- 2. Engine/equipment repair work that an operator performed to correct an unsafe, emergency condition attributable to BRP as long as the operator tries to restore the engine/equipment to its proper configuration as soon as possible.
- 3. Any action or inaction by the operator unrelated to the warranty claim.
- 4. Maintenance that was performed more frequently than BRP specify.
- 5. Anything that is BRP fault or responsibility.
- 6. The use of any fuel that is commonly available where the equipment operates unless BRP written maintenance instructions state that this fuel would harm the equipment's emission control system and operators can readily find the proper fuel. See maintenance information section and fuel requirements of fueling section.

#### **Emission-Related Warranty Period**

The emission-related warranty is valid for the following period whichever comes first:

	HOURS	MONTHS
Exhaust emission-related components	175	30
Evaporative emission-related components	N/A	24

#### **Components Covered**

The emission-related warranty covers all components whose failure would increase an engine's emissions of any regulated pollutant, including the following listed components:

- 1. For exhaust emissions, emission-related components include any engine parts related to the following systems:
  - Air-induction system
  - Fuel system
  - Ignition system
  - Exhaust gas recirculation systems
- The following parts are also considered emission-related components for exhaust emissions:
  - Aftertreatment devices
  - Crankcase ventilation valves
  - Sensors
  - Electronic control units
- The following parts are considered emission-related components for evaporative emissions:
  - Fuel tank
  - Fuel cap
  - Fuel line
  - Fuel line fittings
  - Clamps\*
  - Pressure relief valves\*
  - Control valves\*
  - Control solenoids\*
  - Electronic controls\*
  - Vacuum control diaphragms\*
  - Control cables\*
  - Control linkages\*
  - Purge valves
  - Vapor hoses
  - Liquid/vapor separator
  - Carbon canister
  - Canister mounting brackets
  - Carburetor purge port connector
- 4. Emission-related components also include any other part whose only purpose is to reduce emissions or whose failure will increase emissions without significantly degrading engine/equipment performance.

<sup>\*</sup>As related to the evaporative emission control system

#### **Limited Applicability**

As a certifying manufacturer, BRP may deny emission-related warranty claims for failures that have been caused by the owner's or operator's improper maintenance or use, by accidents for which the manufacturer has no responsibility, or by acts of God. For example, an emission-related warranty claim need not be honored for failures that have been directly caused by the operator's abuse of the engine/equipment or the operator's use of the engine/equipment in a manner for which it was not designed and are not attributable to the manufacturer in any way.

If you have any questions regarding your warranty rights and responsibilities or for the name and location of the nearest authorized BRP Dealer you should contact the Customer Assistance Center at 1-888-272-9222.

<sup>\*\*</sup> In the USA, products are distributed and serviced by BRP US Inc.

## CALIFORNIA AND NEW YORK EMISSION CONTROL WARRANTY STATEMENT FOR MODEL YEAR 2020 SEA-DOO® PERSONAL WATERCRAFT

For California and New York, your 2020 Sea-Doo personal watercraft has a special environmental label required by the California Air Resources Board. The label has 1, 2, 3 or 4 stars. A hangtag, provided with your personal watercraft, describes the meaning of the star rating system.

#### **The Star Label Means Cleaner Marine Engines**

The Symbol for Cleaner Marine Engines:









F18L3CO

#### **Cleaner Air and Water**

For a healthier lifestyle and environment.

#### **Better Fuel Economy**

Burns up to 30 - 40 percent less gas and oil than conventional carbureted two-stroke engines saving money and resources.

#### **Longer Emission Warranty**

Protects consumer for worry free operation.

#### One Star - Low Emission

The one-star label identifies personal watercraft, outboard, stern drive and inboard engines that meet the Air Resources Board's Personal Watercraft and Outboard marine engine 2001 exhaust emission standards. Engines meeting these standards have 75% lower emissions than conventional carbureted two-stroke engines. These engines are equivalent to the U.S. EPA's 2006 standards for marine engines.

#### Two Stars - Very Low Emission

The two-star label identifies personal watercraft, outboard, stern drive and inboard engines that meet the Air Resources Board's Personal Watercraft and Outboard marine engine 2004 exhaust emission standards. Engines meeting these standards have 20% lower emissions than One Star - Low-Emission engines.

#### **Three Stars - Ultra Low Emission**

The three-star label identifies engines that meet the Air Resources Board's Personal Watercraft and Outboard marine engine 2008 exhaust emission standards or the Stern drive and Inboard marine engine 2003 exhaust emission standards. Engines meeting these standards have 65% lower emissions than One Star – Low Emission engines.

#### Four Stars - Super Ultra Low Emission

The four-star label identifies engines that meet the Air Resources Board's Stern-drive and Inboard marine engine 2012 exhaust emission standards. Personal Watercraft and Outboard marine engines may also comply with these standards. Engines meeting these standards have 90% lower emissions than One Star – Low Emission engines.

For more information: Cleaner Watercraft - Get the Facts

1 800 END-SMOG www.arb.ca.gov

#### **Your Emission Control Warranty Rights and Obligations**

The California Air Resources Board, the New York State Department of Environmental Conservation and Bombardier Recreational Products Inc. ("BRP") are pleased to explain the emission control system warranty on your Model Year 2020 Sea-Doo personal watercraft. In California, new personal watercraft engines must be designed, built and equipped to meet the State's stringent anti-smog standards. BRP must warrant the emission control system on your personal watercraft engine for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your personal watercraft engine.

Your emission control system may include parts such as the fuel injection system, the ignition system and catalytic converter. Also included may be hoses, belts, connectors and other emission related assemblies.

Where a warrantable condition exists, BRP will repair your personal watercraft engine at no cost to you including diagnosis, parts and labor provided that such work is performed by an authorized BRP dealer.

#### **Manufacturer's Limited Warranty Coverage**

This emission limited warranty covers Model Year 2020 Sea-Doo personal watercrafts certified and produced by BRP for sale in California or New York, that are originally sold in California or New York to a California or New York resident or subsequently warranty registered to a California or New York resident. The BRP limited warranty conditions for Sea-Doo personal watercrafts are still applicable to these models with the necessary modifications. Select emission control parts of your 2020 Sea-Doo personal watercrafts are warranted from the date of delivery to the first retail consumer for a period of 4 years, or for 250 hours of use, whichever occurs first. However, warranty coverage based on the hourly period is only permitted for personal watercraft equipped with the appropriate hour meters or their equivalent. If any emission-related part on your engine is defective under warranty, the part will be repaired or replaced by BRP.

#### Parts covered for a Model Year 2020 Sea-Doo® personal watercraft:

Idle bypass valve	Air intake adapter		
Throttle position sensor	Spark plugs		
Intake manifold air pressure sensor	Ignition coils		
Intake manifold air temperature sensor	Air box		
Engine temperature sensor	Intake and exhaust valve and seals		
Knock sensor	Intake manifold		
Engine control module ECM	Crankcase ventilation valve		
Throttle body	Throttle body seal		
Fuel rail	Intake manifold seal		
Fuel injectors	Wire harness and connectors		
Fuel pressure regulator	Fuel filter		
Fuel pump	Supercharger		

The emission warranty covers damage to other engine components that is caused by the failure of a warranted part. The BRP Operator's Guide provided contains written instructions for the proper maintenance and use of your personal watercraft. All emission warranty parts are warranted by BRP for the entire warranty period of the personal watercraft, unless the part is scheduled for replacement as required maintenance in the Operator's Guide.

Emission warranty parts that are scheduled for replacement, as required maintenance, are warranted by BRP for the period of time before the first scheduled replacement date for that part. Emission warranty parts that are scheduled for regular inspection, but not regular replacement, are warranted by BRP for the entire warranty period of the personal watercraft. Any emission warranty part repaired or replaced under the terms of this warranty statement is warranted by BRP for the remainder of the warranty period of the original part. All parts replaced under this limited warranty become the property of BRP.

Maintenance receipts and records should be transferred to each subsequent owner of the personal watercraft.

#### **Owner's Warranty Responsibilities**

As the owner of a 2020 Sea-Doo personal watercraft, you are responsible for the performance of the required maintenance listed in your Operator's Guide. BRP recommends that you retain all receipts covering maintenance of your personal watercraft engine, but BRP cannot deny warranty solely for the lack of receipts or your failure to ensure the performance of all scheduled maintenance.

As the owner of a Sea-Doo® personal watercraft, you should however be aware that BRP may deny you warranty coverage if your engine(s) or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your engine to an authorized BRP Dealer as soon as a problem exists. The warranty repairs will be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities or for the name and location of the nearest authorized BRP Dealer you should contact the Customer Assistance Center at 1-888-272-9222.

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### CALIFORNIA EVAPORATIVE EMISSIONS CONTROL SYSTEM WARRANTY STATEMENT

#### YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board is pleased to explain the evaporative emissions control system's warranty on your 2020 personal watercraft. In California, new SIMW must be designed, built, and equipped to meet the State's stringent anti-smog standards. Bombardier Recreational Products Inc. must warrant the evaporative emissions control system on your personal watercraft for the period listed below, provided there has been no abuse, neglect or improper maintenance of your SIMW.

Your evaporative emissions control system may include parts such as: canisters, carburetors, clamps, connectors, filters, fuel caps, fuel lines, fuel tanks, valves, vapor hoses, and other associated evaporative emissions control system components.

#### **MANUFACTURER'S WARRANTY COVERAGE:**

This evaporative emissions control system is warranted for two years. If any evaporative emission-related part on your SIMW is defective, the part will be repaired or replaced by Bombardier Recreational Products Inc.

#### PARTS COVERED:

- 1. Clamp(s)\*
- 2. Fuel Cap
- 3. Fuel Line
- 4. Fuel Line Fitting(s)
- 5. Fuel Tank
- 6. Pressure Relief Valve(s)\*
- 7. Vapor Hose(s)
- 8. All other parts not listed that may affect the evaporative emissions control system

#### OWNER'S WARRANTY RESPONSIBILITIES:

As the personal watercraft owner, you are responsible for performance of the required maintenance listed in your owner's manual. Bombardier Recreational Products Inc. recommends that you retain all receipts covering maintenance on your personal watercraft, but Bombardier Recreational Products Inc. cannot deny warranty solely for the lack of receipts.

As the personal watercraft owner, you should however be aware that Bombardier Recreational Products Inc. may deny you warranty coverage if your personal watercraft or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your personal watercraft to a Bombardier Recreational Products Inc. distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable

<sup>\*</sup>Note: As they relate to the evaporative emissions control system.

amount of time, not to exceed 30 calendar days. If you have question regarding your warranty coverage, you should contact Bombardier Recreational Products at 1-888-272-9222.

## BRP INTERNATIONAL LIMITED WARRANTY: 2020 SEA-DOO® PERSONAL WATERCRAFT

#### 1. SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")\* warrants its 2020 SEA-DOO PERSONAL WATERCRAFTS ("personal watercraft") sold by distributors or dealers authorized by BRP to distribute Sea-Doo Personal watercrafts ("Sea-Doo Distributor/Dealer") outside of the fifty United States, Canada, member states of the European Economic Area (which is comprised of the member states of the European Union plus Norway, Iceland and Liechtenstein) ("EEA"), member states of the Commonwealth of the Independent States (including Ukraine and Turkmenistan) ("CIS") and Turkey, from defects in material or workmanship for the period and under the conditions described below.

Non-factory installed parts and accessories are not covered under this limited warranty. Please refer to the applicable parts and accessories limited warranty text.

This limited warranty will become null and void if: (1) the personal watercraft was used for racing or any other competitive activity, at any point, even by a previous owner; or (2) the personal watercraft has been altered or modified in such a way so as to adversely affect its operation, performance or durability or (3) the personal watercraft has been altered or modified to change its intended use.

#### 2. LIMITATIONS OF LIABILITY

TO THE EXTENT PERMITTED BY LAW, 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 A PARTICULAR PURPOSE. TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME JURISDICTIONS DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND EXCLUSIONS IDENTIFIED ABOVE, AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH MAY VARY FROM COUNTRY TO COUNTRY. (FOR PRODUCTS PURCHASED IN AUSTRALIA SEE CLAUSE 4 BELOW).

Neither the Sea-Doo Distributor/Dealer nor any other person has been authorized to make any affirmation, representation or warranty regarding the product, other than those contained in this limited warranty, and if made, shall not be enforceable against BRP.

BRP reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the products sold while this warranty is in effect.

#### 3. EXCLUSIONS - ARE NOT WARRANTED

The following are not warranted under this limited warranty under any circumstances:

- Replacement of parts due to normal wear and tear;
- Routine maintenance parts and services, including but not limited to tune ups, adjustments, oil, lubricant and coolant changes, spark plug replacement, water pumps and the like;

- Damage caused by negligence or failure to provide proper maintenance and/or storage, as described in the Operator's Guide;
- Damage resulting from removal of parts, improper repairs, service, maintenance, modification or use of parts or accessories not manufactured or approved by BRP which in its reasonable judgment are either incompatible with the product or adversely affect its operation, performance and durability, or resulting from repairs done by a person that is not an authorized servicing Sea-Doo Distributor/Dealer;
- Damage caused by abuse, misuse, abnormal use, neglect, racing, improper operation or operation of the product in a manner inconsistent with the recommended operation described in the Operator's Guide;
- Damage resulting from external damage, accident, submersion, fire, foreign object or water ingestion, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the Operator's Guide);
- Damage resulting from rust, corrosion or exposure to the elements;
- Damages from cooling system or jet pump blockage by foreign material;
- Damages to gel coat finish including but not limited to cosmetic gel coat finish defects, blisters, starring, crazing and fiberglass delamination caused by blisters, crazing, spider or hairline cracks; and
- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, transportation expenses, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income or time missed for downtime experience due to service work.

#### 4. WARRANTY COVERAGE PERIOD

This limited warranty will be in effect from (1) the date of delivery to the first retail consumer or (2) the date the product is first put into use, whichever occurs first and for a period of:

- 1. TWELVE (12) CONSECUTIVE MONTHS for private, recreational use,
- 2. FOUR (4) CONSECUTIVE MONTHS for commercial use,
  This is a minimal warranty period which can be extended by any applicable
  warranty promotional program, as the case may be. A personal watercraft is
  used commercially when it is used in connection with generating income or
  any work or employment during any part of the warranty period. A personal
  watercraft is also used commercially when, at any point during the warranty
  period, it has commercial tags or is licensed for commercial use.

The repair or replacement of parts or the performance of service under this warranty does not extend the life of this warranty beyond its original expiration date.

Note that the duration and any other modalities of the warranty coverage are subject to the applicable national or local legislation in the customer's country.

#### FOR PRODUCTS SOLD IN AUSTRALIA ONLY

Nothing in these Warranty terms and conditions should be taken to exclude, restrict or modify the application of any condition, warranty, guarantee, right or remedy conferred or implied under the Competition and Consumer Act 2010 (Cth), including the Australian Consumer Law or any other law, where to do so

would contravene that law, or cause any part of these terms and conditions to be void. The benefits given to you under this limited warranty are in addition to other rights and remedies that you have under Australian law.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

#### 5. CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available **only** if **each** of the following conditions has been fulfilled:

- The 2020 Sea-Doo personal watercraft must be purchased as new and unused by its first owner from a Sea-Doo Distributor/Dealer authorized to distribute Sea-Doo personal watercrafts in the country in which the sale occurred;
- The BRP specified pre-delivery inspection process must be completed and documented:
- The 2020 Sea-Doo personal watercraft must have undergone proper registration by an authorized Sea-Doo Distributor/Dealer;
- The 2020 Sea-Doo personal watercraft must have been purchased in the country or union of countries in which the purchaser resides.
- Routine maintenance outlined in the Operator's Guide must be timely performed in order to maintain warranty coverage. BRP reserves the right to make warranty coverage contingent upon proof of proper maintenance.

BRP will not honor this limited warranty to any private use owner or commercial use owner if one of the preceding conditions has not been met. Such limitations are necessary in order to allow BRP to preserve both the safety of its products, and also that of its consumers and the general public.

#### 6. WHAT TO DO TO OBTAIN WARRANTY COVERAGE

The customer must cease using the Sea-Doo personal watercraft upon the appearance of an anomaly. The customer must notify a servicing Sea-Doo Distributor/Dealer within two (2) days of the appearance of a defect, and provide it with reasonable access to the product and reasonable opportunity to repair it. The customer must also present to the authorized Sea-Doo Distributor/Dealer, proof of purchase of the product and must sign the repair/work order prior to starting the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of BRP.

Note that the notification period is subject to the applicable national or local legislation in customer's country.

#### 7. WHAT BRP WILL DO

To the extent permitted by law, BRP's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine BRP parts without charge for parts and labor, at any authorized Sea-Doo Distributor/Dealer during the warranty coverage period under the conditions described herein. BRP's responsibility is limited to making the required repairs or replacements of parts.

No claim of breach of warranty shall be cause for cancellation or rescission of the sale of the Sea-Doo personal watercraft to the owner. You may have other legal rights which may vary from country to country.

In the event that service is required outside of the country of original sale, the owner will bear responsibility for any additional charges due to local practices and conditions, such as, but not limited to, freight, insurance, taxes, license fees, import duties, and any and all other financial charges, including those levied by governments, states, territories and their respective agencies.

BRP reserves the right to improve or modify products from time to time without assuming any obligation to modify products previously manufactured.

#### 8. TRANSFER

If the ownership of a product is transferred during the warranty coverage period, this limited warranty, subject to its terms and conditions, shall also be transferred and be valid for the remaining coverage period provided BRP or an authorized Sea-Doo Distributor/Dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the coordinates of the new owner.

#### 9. CONSUMER ASSISTANCE

In the event of a controversy or a dispute in connection with this limited warranty, BRP suggests that you try to resolve the issue at the Sea-Doo Distributor/Dealer level. We recommend discussing the issue with the authorized Sea-Doo Distributor/Dealer's service manager or owner.

If the matter still remains unresolved, contact BRP by filling out the customer contact form at www.brp.com or contact BRP by mail at one of the addresses listed under the *CONTACT US* section of this guide.

<sup>\*</sup> For the territory covered by this limited warranty, products are distributed and serviced by Bombardier Recreational Products Inc. or its affiliates.

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# BRP LIMITED WARRANTY FOR THE EUROPEAN ECONOMIC AREA, THE COMMONWEALTH OF THE INDEPENDENT STATES, TURKEY: 2020 SEA-DOO® PERSONAL WATERCRAFT

#### 1. SCOPE OF THE LIMITED WARRANTY

Bombardier Recreational Products Inc. ("BRP")\* warrants its 2020 **SEA-DOO PERSONAL WATERCRAFT** ("personal watercraft") sold by distributors or dealers authorized by BRP to distribute Sea-Doo personal watercrafts ("Sea-Doo Distributor/Dealer") in member states of the European Economic Area (which is comprised of the member states of the European Union plus Norway, Iceland and Liechtenstein) ("EEA"), in member states of the Commonwealth of the Independent States (including Ukraine and Turkmenistan) ("CIS") and Turkey from defects in material or workmanship for the period and under the conditions described below.

Non-factory installed parts and accessories are not covered under this limited warranty. Please refer to the applicable parts and accessories limited warranty text.

This limited warranty will become null and void if: (1) the personal watercraft was used for racing or any other competitive activity, at any point, even by a previous owner; or (2) the personal watercraft has been altered or modified in such a way so as to adversely affect its operation, performance or durability, or (3) the personal watercraft has been altered or modified to change its intended use.

#### 2. LIMITATIONS OF LIABILITY

TO THE EXTENT PERMITTED BY LAW, 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 A PARTICULAR PURPOSE. TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME JURISDICTIONS DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND EXCLUSIONS IDENTIFIED ABOVE, AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH MAY VARY FROM COUNTRY.

Neither the Sea-Doo Distributor/Dealer nor any other person has been authorized to make any affirmation, representation or warranty regarding the product, other than those contained in this limited warranty, and if made, shall not be enforceable against BRP.

BRP reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the products sold while this warranty is in effect.

#### 3. EXCLUSIONS - ARE NOT WARRANTED

The following are not warranted under this limited warranty under any circumstances:

- Replacement of parts due to normal wear and tear;

- Routine maintenance parts and services, including but not limited to tune ups, adjustments, oil, lubricant and coolant changes, spark plug replacement, water pumps and the like;
- Damage caused by negligence or failure to provide proper maintenance and/or storage, as described in the Operator's Guide;
- Damage resulting from removal of parts, improper repairs, service, maintenance, modification or use of parts or accessories not manufactured or approved by BRP which in its reasonable judgement are either incompatible with the product or adversely affect its operation, performance and durability, or resulting from repairs done by a person that is not an authorized servicing Sea-Doo Distributor/Dealer;
- Damage caused by abuse, misuse, abnormal use, neglect, racing, improper operation or operation of the product in a manner inconsistent with the recommended operation described in the Operator's Guide;
- Damage resulting from external damage, accident, submersion, fire, foreign object or water ingestion, theft, vandalism or any act of God;
- Operation with fuel, oils or lubricants which are not suitable for use with the product (see the Operator's Guide);
- Damage resulting from rust, corrosion or exposure to the elements;
- Damages from cooling system or jet pump blockage by foreign material;
- Damages to gel coat finish including but not limited to cosmetic gel coat finish defects, blisters, starring, crazing and fiberglass delamination caused by blisters, crazing, spider or hairline cracks; and
- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, transportation expenses, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income; or time missed for downtime experience due to service work.

#### 4. WARRANTY COVERAGE PERIOD

This limited warranty will be in effect from (1) the date of delivery to the first retail consumer or (2) the date the product is first put into use, whichever occurs first and for a period of:

- 1. Twenty four (24) CONSECUTIVE MONTHS, for private, recreational use,
- FOUR (4) CONSECUTIVE MONTHS for commercial use,
   A personal watercraft is used commercially when it is used in connection
   with generating income or any work or employment during any part of the
   warranty period. A personal watercraft is also used commercially when, at
   any point during the warranty period, it has commercial tags or is licensed for
   commercial use.

The repair or replacement of parts or the performance of service under this warranty does not extend the life of this warranty beyond its original expiration date.

Note that the duration and any other modalities of the warranty coverage are subject to the applicable national or local legislation in the customer's country.

#### 5. CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available **only** if **each** of the following conditions has been fulfilled:

- The 2020 Sea-Doo personal watercraft must be purchased as new and unused by its first owner from a Sea-Doo Distributor/Dealer authorized to distribute Sea-Doo personal watercrafts in the country in which the sale occurred;
- The BRP specified pre-delivery inspection process must be completed and documented;
- The 2020 Sea-Doo personal watercraft must have undergone proper registration by an authorized Sea-Doo Distributor/Dealer;
- The 2020 Sea-Doo personal watercraft must be purchased within the EEA by an EEA resident, in the CIS for residents of the countries comprised in such area and in Turkey for residents of Turkey; and
- Routine maintenance outlined in the Operator's Guide must be timely performed in order to maintain warranty coverage. BRP reserves the right to make warranty coverage contingent upon proof of proper maintenance.

BRP will not honor this limited warranty to any private use owner or commercial use owner if one of the preceding conditions has not been met. Such limitations are necessary in order to allow BRP to preserve both the safety of its products, and also that of its consumers and the general public.

#### 6. WHAT TO DO TO OBTAIN WARRANTY COVERAGE

The customer must cease using the Sea-Doo personal watercraft upon the appearance of an anomaly. The customer must notify a servicing Sea-Doo Distributor/Dealer within two (2) months of the appearance of a defect, and provide it with reasonable access to the product and reasonable opportunity to repair it. The customer must also present to the authorized Sea-Doo Distributor/Dealer, proof of purchase of the product and must sign the repair/work order prior to starting the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of BRP.

Note that the notification period is subject to the applicable national or local legislation in customer's country.

#### 7. WHAT BRP WILL DO

To the extent permitted by law, BRP's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine Sea-Doo parts without charge for parts and labor, at any authorized Sea-Doo Distributor/Dealer during the warranty coverage period under the conditions described herein. BRP's responsibility is limited to making the required repairs or replacements of parts. No claim of breach of warranty shall be cause for cancellation or rescission of the sale of the Sea-Doo personal watercraft to the owner. You may have other legal rights which may vary from country to country.

In the event that service is required outside of the country of original sale, or for EEA residents, if service is required outside of the EEA, for CIS residents, if service is required outside of the CIS, the owner will bear responsibility for any additional charges due to local practices and conditions, such as, but not limited

to, freight, insurance, taxes, license fees, import duties, and any and all other financial charges, including those levied by governments, states, territories and their respective agencies.

BRP reserves the right to improve or modify products from time to time without assuming any obligation to modify products previously manufactured.

#### 8. TRANSFER

If the ownership of a product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided BRP or an authorized Sea-Doo Distributor/Dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the coordinates of the new owner.

#### 9. CONSUMER ASSISTANCE

In the event of a controversy or a dispute in connection with this limited warranty, BRP suggests that you try to resolve the issue at the Sea-Doo Distributor/Dealer level. We recommend discussing the issue with the authorized Sea-Doo Distributor/Dealer's service manager or owner.

If the matter still remains unresolved, contact BRP by filling out the customer contact form at www.brp.com or contact BRP by mail at one of the addresses listed under the *CONTACT US* section of this guide.

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#### ADDITIONAL TERMS AND CONDITIONS FOR FRANCE ONLY

The following terms and conditions are applicable to products sold in France only:

The seller shall deliver goods that are complying with the contract and shall be responsible for defects existing upon delivery. The seller shall also be responsible for defects resulting from packaging, assembling instructions or the installation when it is its responsibility per the contract or if accomplished under its responsibility. To be compliant with the contract, the good shall:

- 1. Be fit for normal use for goods similar thereto and, if applicable:
  - Correspond to the description provided by the seller and have the qualities presented to the buyer though sample or model;
  - Have the qualities that a buyer may legitimately expect considering the public declarations of the seller, the manufacturer of its representative, including in advertising or labeling; or
- 2. Have the characteristics mutually agreed upon as between the parties or be fit for the specific use intended by the buyer and brought to the attention of the seller and which accepted.

The action for failure to comply is prescribed after two years after delivery of the goods. The seller is responsible for the warranty for hidden defects of the good sold if such hidden defects are rendering the good unfit for the intended use, or if they diminish its use in such a way that the buyer would not have acquired the good or would have given a lesser price, had he known. The action for such hidden defects shall be taken by the buyer within 2 years of the discovery of the defect.

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## **CUSTOMER INFORMATION**

#### PRIVACY INFORMATION

BRP wishes to inform you that your coordinates will be used for safety and warranty related purposes. Furthermore, BRP and its affiliates may use its customer list to distribute marketing and promotional information about BRP and related products.

To exercise your right to consult or correct your data, or to be removed from the addressee-list for direct marketing, please contact BRP.

By E-mail: privacyofficer@brp.com

By mail: BRP

Senior Legal Counsel-Privacy Officer

726 St-Joseph Valcourt QC Canada J0E 2L0

#### **CONTACT US**

www.brp.com

#### Asia

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#### **Europe**

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Itterpark 11 D-40724 Hilden Germany

ARTEPARC Bâtiment B Route de la côte d'Azur, Le Canet 13590 Meyreuil France

Ingvald Ystgaardsvei 15 N-7484 Trondeim Norway

Isoaavantie 7 PL 8040 96101 Royaniemi

Spinnvägen 15 903 61 Umeå Sweden

Avenue d'Ouchy 4-6 1006 Lausanne Switzerland

#### **North America**

565 de la Montagne Street Valcourt (Québec) J0E 2L0 Canada

Sa De Cv, Av. Ferrocarril 202 Parque Ind. Querétaro, Lote2-B 76220 Santa Rosa Jáuregui, Qro., Mexico

Sturtevant, Wisconsin, U.S.A. 10101 Science Drive Sturtevant, Wisconsin 53177 U.S.A.

#### **Oceania**

6 Lord Street Lakes Business Park Botany, NSW 2019 Australia

3B Echelon Place, East Tamaki, Auckland 2013, New Zealand

#### South America

Rua James Clerck Maxwell, 230 TechnoPark Campinas SP 13069-380 Brazil

#### **CHANGE OF ADDRESS/OWNERSHIP**

If your address has changed or if you are the new owner of the boat, be sure to notify BRP by either:

- Notifying an authorized Sea-Doo dealer.
- North America Only: calling at 1 888 272-9222.
- Mailing one of the change of address cards on the following pages at one of the BRP addresses indicated in the CONTACT US section of this guide.

In case of change of ownership, please join a proof that the former owner agreed to the transfer.

Notifying BRP, even after the expiration of the limited warranty, is very important as it enables BRP to reach the boat owner if necessary, like when safety recalls are initiated. It is the owner's responsibility to notify BRP.

**STOLEN UNITS:** In the event that your boat is stolen, you should notify your area's distributor warranty department of such. We will ask you to provide your name, address, phone number, Hull Identification Number and date it was stolen.

CHANGE OF OWNERSHIP 🔲			
₹			
Vehicle lo	dentification Number (V.I.N.)		
	NAME		
NO.	STREET	APT	
CITY	STATE/PROVINCE	ZIP/POSTAL CODE	
COUNTRY		TELEPHONE	
	NAME		
NO.	STREET	APT	
CITY	STATE/PROVINCE	ZIP/POSTAL CODE	
COUNTRY		TELEPHONE	
E-MAIL ADDRE	ESS		
CI	HANGE OF OWNERSHIP 🔲	~	
₹			
Vahiala k	dentification Number (VIII)		
venicie id	ientification Number (v.i.N.)		
	NAME		
NO.	STREET	APT	
		ALI	
CITY	STATE/PROVINCE	ZIP/POSTAL CODE	
CITY	STATE/PROVINCE		
	STATE/PROVINCE  NAME	ZIP/POSTAL CODE	
		ZIP/POSTAL CODE	
		ZIP/POSTAL CODE	
COUNTRY	NAME	ZIP/POSTAL CODE TELEPHONE	
COUNTRY  NO.	NAME STREET	ZIP/POSTAL CODE TELEPHONE APT	
	NO.  CITY  COUNTRY  E-MAIL ADDRE  Vehicle Ic	Vehicle Identification Number (V.I.N.)  NAME  NO. STREET  CITY STATE/PROVINCE  COUNTRY  NAME  NO. STREET  CITY STATE/PROVINCE  COUNTRY  E-MAIL ADDRESS  CHANGE OF OWNERSHIP   R  Vehicle Identification Number (V.I.N.)  NAME	

CHANGE OF ADDRESS/OWNERSHIP

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CHANGE OF ADDRESS 🔲	CHANGE OF OWNERSHIP 🔲				
VEHICLE IDENTIFICATION NUMBER	R				
		Libraria Nicola (CIN)			
Model Number OLD ADDRESS	Venici	e Identification Number (V.I.N.)			
OR PREVIOUS OWNER:		NAME			
	NO.	STREET	APT		
	CITY	STATE/PROVINCE	ZIP/POSTAL CODE		
	COUNTRY		TELEPHONE		
NEW ADDRESS OR NEW OWNER:		NAME			
 	NO.	STREET	APT		
 	CITY	STATE/PROVINCE	ZIP/POSTAL CODE		
	COUNTRY		TELEPHONE		
  vooa2F	E-MAIL AD	DRESS			
CHANGE OF ADDRESS		CHANGE OF OWNERSHIP			
VEHICLE IDENTIFICATION NUMBER		e Identification Number (V.I.N.)			
OLD ADDRESS		NAME			
OR PREVIOUS OWNER:		NAIVIE			
 	NO.	STREET	APT		
[ [	CITY	STATE/PROVINCE	ZIP/POSTAL CODE		
	COUNTRY		TELEPHONE		
NEW ADDRESS OR NEW OWNER:		NAME			
	NO.	NAME STREET	APT		
	NO.		APT		
		STREET			



WATERCRAFT MODEL No.					
HULL IDENTIFICATION NUMBER (H.I.N.)					
ENGINE IDENTIFICATION NUMBER (E.I.N.)					
Owner:					
	IVAIVIE				
No.	STREET			APT	
CITY	STATE/PROV	/INCE		ZIP/POSTAL CODE	
Purchase Date Warranty Expiry Date	YEAR	   MONTH	DAY	<u></u>	
	YEAR	MONTH	DAY		
To be completed by the authorized Sea-Doo dealer at the time of the sale.					
DEALER IMPRINT AREA					

F00A30L



BEFORE YOU OPERATE THIS VEHICLE, READ THIS OPERATOR'S GUIDE, ALL ON-PRODUCT SAFETY LABELS AND WATCH THE SAFETY VIDEO.





#### **SKI-doo. Lynx. Sed-200. Evinrude.** Rotax. **Can-am.**

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