

SEA-DOO®



2009

Sport Boats
**OPERATOR'S
GUIDE**
Includes,
SAFETY, VEHICLE
and MAINTENANCE
INFORMATION

230 CHALLENGER* SERIES 230 WAKE™

 **WARNING**

Read this guide thoroughly. It contains important safety information.
Minimum recommended operator's age: 16 years old.
Do not remove this Operator's Guide from the vehicle.

2 0 4 6 3 0 3 8 5

⚠ WARNING

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

⚠ WARNING

This boat may exceed the performance of other boats you may have ridden in the past. Take time to familiarize yourself with your new boat.

CALIFORNIA PROPOSITION 65 WARNING

⚠ WARNING

This product contains or emits chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

In Canada, products are distributed by Bombardier Recreational Products Inc. (BRP).

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Sea-Doo®

ROTAX™

Challenger™

Perfect Pass®

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FOREWORD

Congratulations on your purchase of a new Sea-Doo Sport Boat. It is backed by the BRP warranty and a network of authorized Sea-Doo Sport Boats 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 boat 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 boat was prepared to your entire satisfaction.

Know Before You Go

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

- SAFETY INFORMATION
- VEHICLE INFORMATION.

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

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

Safety Messages


The types of safety messages, what they look like and how they are used in this guide are explained as follows:

DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

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

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

About this Operator's Guide

This Operator's Guide has been prepared to acquaint the owner/operator of a new boat with the various controls, maintenance and safe operating instructions.

This guide is indispensable for the proper use of the product and should be kept in this boat at all times, so you can refer to it.

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.operatorsguide.brp.com.

The informations contained in this document are correct at the time of publication. BRP, however, 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 and the *SAFETY DVD* should remain with the boat when it's sold.

SAFETY INFORMATION

SPECIAL SAFETY MESSAGES

Reminders Regarding Operation...

- ▲ Gasoline vapors can explode, resulting in injury or death. Always use blower for a minimum of 5 minutes before starting engine, then turn it OFF above idle speed. Use of the bilge blower should never replace “smelling” for gasoline vapors.
- ▲ If at any time, gasoline leaks/odors are found, do not start the engine. Have the boat serviced by an authorized Sea-Doo Sport Boats dealer.
- ▲ Always keep in mind that as the throttle lever is returned to the idle position, less directional control is available. To turn the boat, both steering and throttle are necessary.
- ▲ Like any other boat, this boat has no brake. Stopping distance will vary depending on initial speed, load, wind, and water conditions. Practice stopping and docking in a safe, traffic-free area to have an idea of how long it will take to stop the boat under varying conditions. Do not release the throttle when trying to steer away from objects. You need throttle to steer. Do not use the boat's reverse to stop.
- ▲ Do not start or operate the boat if any person is not properly seated in a seat intended for use when underway (not the sun deck or swim platform) or if a person is nearby in the water.
- ▲ The boat's jet thrust can cause injury. Always accelerate slowly, and decelerate in a controlled fashion.
- ▲ Observe the instructions on all safety labels. They are there to help assure that you have a safe and enjoyable outing.
- ▲ Riding with passenger(s) or pulling other boats, tubes, a skier or a wakeboarder makes the boat handle differently and requires greater skill.
- ▲ Certain boats may come equipped with tow eyelets, a ski pole or a wakeboard tower which can be used to attach a tow rope for a skier, tube or wakeboarder. Do not use these attachment points or any other portion of the boat to tow a parasail or another craft. Personal injury or severe damage may occur.
- ▲ In shallow water, proceed with caution and at very low speeds. Grounding or abrupt stops may result in injury to you, your passengers or others. The jet pump may pick up debris and throw it rearward causing a risk of injuring people or damaging the jet pump or other property.
- ▲ Engine exhaust contains carbon monoxide (CO), which can cause injury or death if inhaled in sufficient quantities. Do not operate the boat in a confined area or allow CO to accumulate in or around the boat, or in enclosed or sheltered areas. Such as when docked, or when rafting. Be aware of risk of CO from exhaust of other boats.
- ▲ Educate all occupants about the risks and symptoms of CO accumulation and CO poisoning, particularly from engine and generator exhaust. Educate them about where engine exhaust outlets (and generator outlets if so equipped) are located. Regularly inspect exhaust and generator system and outlets for component failures or obstructions.
- ▲ Combustion engines need air to operate; consequently this boat can not be totally watertight. Any maneuvers such as figure eights that cause the upper deck to be under water may cause severe engine problems due to water ingestion. Refer to the *SPECIAL PROCEDURES* and *WARRANTY* sections contained in this Operator's Guide.

- ▲ Respect no wake zones, the rights of other water users and the environment. As the “skipper” and owner of a boat, you are responsible for damage to other boats caused by the wake of your boat. Do not let anyone throw refuse overboard.
- ▲ Between sunset and sunrise, use the boat's navigation lights and reduce speed. Do not operate the boat in reduced visibility.
- ▲ Do not add accessories or equipment that may adversely affect visibility or alter control of the boat.
- ▲ The skipper should personally take the helm during storms.

Before Getting Underway...

- ▲ Always perform the pre-operation checks as specified in this Operator's Guide.
- ▲ Do not exceed the payload or passenger capacities for this boat, which are listed on the capacity plate and in the specifications. 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 boat, the 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, is in safe operating condition and easily accessible. Show all passengers where this equipment is, and make sure they know how to use it.
- ▲ 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.
- ▲ Before departure, file a Float Plan with a responsible person ashore.
- ▲ Keep 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.

Operators and Passengers

- ▲ Each boat operator has a responsibility to ensure the safety of his/her passenger(s) and of other water users. Please follow all safety instructions and operate your boat with care.
- ▲ Never operate a boat while under the influence of drugs or alcohol they slow reaction time and impair judgement. It is also a Federal offense. Allow only qualified drivers to operate your boat.
- ▲ Remember that sun, wind, fatigue or illness may impair your judgement and reaction time.
- ▲ At least one passenger should be able to operate the boat in case the operator is unexpectedly unable to do so.
- ▲ Operation of this boat 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 use the safety lanyard when operating the boat 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 boat from the water. If a passenger does not know how to swim, ensure that passenger wears a PFD at all times and take extra precautions when boating.

Carbon Monoxide and Boating

Burning a material containing carbon produces carbon monoxide (CO), an odorless and colorless gas. Because CO weighs the same as air, it can spread throughout an enclosed space unnoticed because you cannot see it or smell it. Any device used to burn carbon-based materials on a boat can be a source of CO. Common sources of CO include internal combustion engines.

CO reacts with the blood to reduce the ability of the blood to carry oxygen. The reduced oxygen supply to body tissues results in death of the tissue. Prolonged exposure can cause brain damage or death. In high concentrations, CO can be fatal within minutes. The effects of CO in lower concentrations are cumulative and can be just as lethal over long periods of time.

Symptoms of CO poisoning include: Itchy and watering eyes, flushed appearance, throbbing temples, inability to think coherently, ringing in the ears, tightness across the chest, headaches, drowsiness, nausea, dizziness, fatigue, vomiting, collapse, and convulsions. If any of these symptoms are evident, begin treatment immediately. Prompt action can make the difference between life and death.

- Evacuate the area and move the victim to fresh air.
- Administer oxygen if available and get medical help.

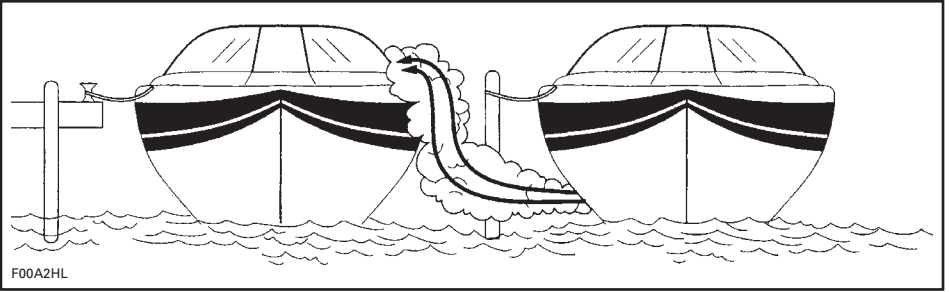
- Open all canvas enclosures to ventilate the area.
- Investigate the source of CO and take immediate corrective action.
- Be especially aware of other CO sources which may be near boat.

Carbon Monoxide Accumulation

Following are examples of possible situations where CO may accumulate within your boat while docked, anchored, or underway. Become familiar with these examples and their precautions to prevent personal injury or death.

WARNING

Exhaust Fumes! Generator or hull exhaust from other vessels while either docked or anchored can emit poisonous CO gas and cause excessive accumulation within cabin and cockpit areas. Be alert for generator exhaust from your vessel or other vessels alongside. Exhaust outlets near a pier, dock, seawall or outlets blocked by any other means can cause excessive accumulation of poisonous CO gas within cockpit area.

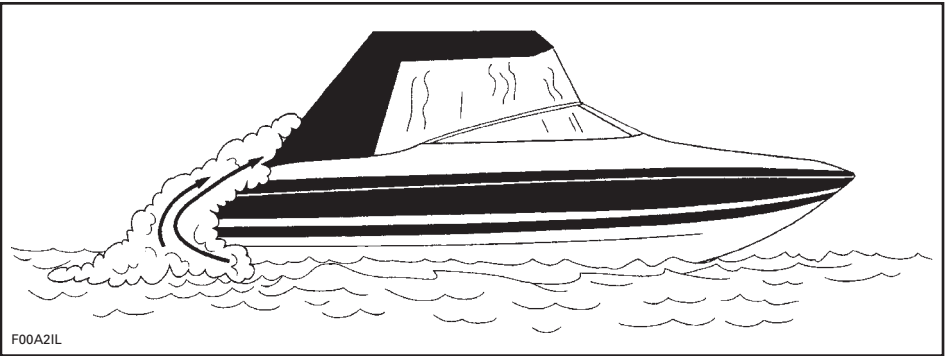


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VESSEL ALONGSIDE

WARNING

Engine exhaust fumes contain carbon monoxide (CO) which can accumulate in and around the boat (under bimini top, in cockpit, etc.). CO can be harmful or fatal if inhaled. Assure there is adequate ventilation whenever running engine(s).

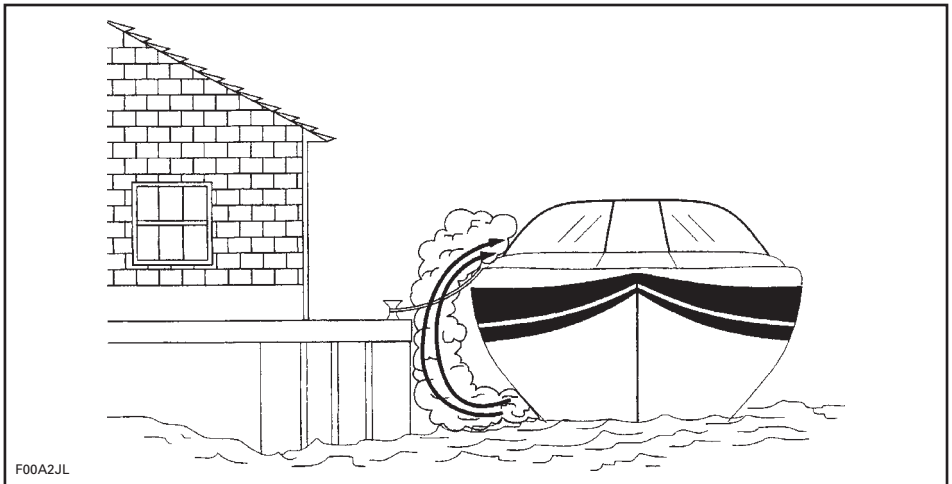


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WHILE UNDERWAY (BACKDRAFTING)

While underway, CO concentrations can increase by backdrafting or "the station wagon effect". Backdrafting is caused by factors such as relative wind direction, speed, or the bow being too high. To prevent this, open canvas whenever possible to provide positive airflow through the hull.

Boat houses, seawalls, and other boats in close proximity or confined areas can contribute to increased CO levels. Operators must be aware that operation, mooring, and anchoring in an area with other boats puts them in jeopardy of CO accumulation from other sources. Likewise, a boat operator must be aware of how exhaust from his boat will affect others. Operation of the engines while moored may cause CO accumulation in your boat and those around you.



CONFINED AREAS

Be sure to provide adequate ventilation. If the windshield has vents, open them before getting underway to increase positive air flow and decrease the chances of CO accumulation.

⚠ WARNING

Backdrafting! Under certain conditions, moving air currents can direct poisonous CO fumes into boat. These fumes can accumulate to dangerous levels without proper airflow. Provide adequate ventilation, redistribute the load or bring boat out of high bow angle.

Even with the best boat design and construction, CO may still accumulate in enclosed or confined areas under certain conditions. Continually observe passengers for symptoms of CO poisoning.

Do NOT Operate your Boat without Performing the Following Checklist:

Each Boating Day

OPERATION	✓
Make sure you and your passengers know where exhaust outlets are located on the vessel	
Educate all passengers about the symptoms of CO poisoning and where CO may accumulate	
When docked or rafting with another boat, be aware of exhaust emissions from the other boat	
Confirm that water flows from the exhaust outlet when the engine(s) is (are) started	
Listen for any change in exhaust sound, which could indicate an exhaust component failure	
Test the operation of each CO alarm by pressing the test button (if so equipped)	

CO Detector

It is strongly recommended that you have CO detectors installed in boats with canvas enclosures. Monitors are available from your dealer. Monitors should be professionally installed and calibrated.

NOTE: A CO detector is not a gas fuel vapor detector. Gas fuel vapor detectors do not monitor the buildup of CO in an enclosed area.

Water Sports

WARNING

Avoid Personal Injury! Your boat is not designed for and should not be used for pulling parasails, kites, gliders, or any device which can become airborne. Use boat only for appropriate water sports.


WARNING

Teak Surfing is extremely dangerous to participants due to their proximity to the rear of the boat where direct contact with the exhaust fumes from the boat engine is the highest. Carbon monoxide poisoning can occur and result in mental disorientation, dizziness, drowsiness, and loss of consciousness. The combination of carbon monoxide exposure and non-use of a life jacket (PFD) make this new water recreation activity an incredibly dangerous and potentially deadly sport.

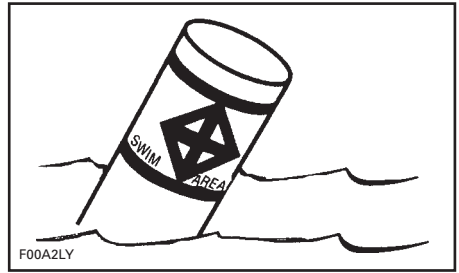
Water skiing, wakeboarding, or riding a towed, inflatable apparatus are some of the more popular water sports. Taking part in any water sport requires increased safety awareness by the participant and the boat operator. If you have never pulled someone behind your boat before, it is a good idea to spend some hours as an observer, working with and learning from an experienced driver. It is also important to be aware of the skill and experience of the person being pulled. Always have a second person on board to observe the person in the water so the driver can concentrate on operating the boat.

Both the boat operator and observer should monitor the location of the towrope when participating in water sports. A slack tow rope can become entangled with person(s) or objects in the boat or in the water, particularly when making a tight turn or circling, and cause serious personal injury.

Everyone participating in a water sport should observe these guidelines:

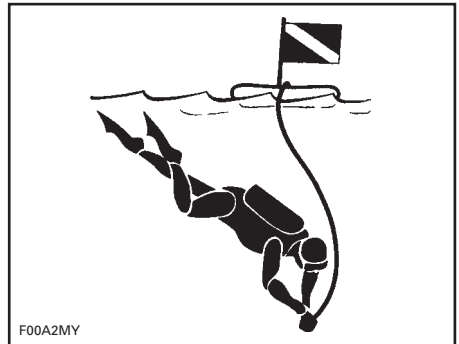
-  Allow only capable swimmers to take part in any water sport.

- ▲ Always wear an approved personal flotation device (PFD). Wearing a properly designed PFD helps a stunned or unconscious person stay afloat. A Type-IV water-ski vest is an approved and practical PFD.
- ▲ Have a second person aboard to observe the person being towed and inform the driver about the participant's hand signals. The driver must give full attention to operating the boat and the waters ahead.
- ▲ Be considerate to others you share the water with.
- ▲ Never allow a person to "teak surf" behind your boat. 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.
- ▲ 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.
- ▲ Turn off engine and anchor the boat before swimming.
- ▲ 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.
- ▲ 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

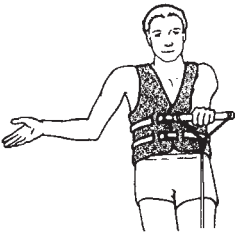
1. Do not water ski between sunset and sunrise. It is illegal in most states.
2. Do not drive the boat directly behind a water skier, tuber or wakeboarder. At 40 km/h (25 MPH), the boat will overtake a person who falls in the water 60 m (200 ft) in front of your boat in about 5 seconds.
3. Shut engine off and remove ignition key when anyone is in the water nearby.
4. Stay at least 45 m (150 ft) away from areas marked by a diver down float.



DIVER DOWN FLOAT

⚠ WARNING

Avoid Personal Injury! Do not allow anyone near the jet pump 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.



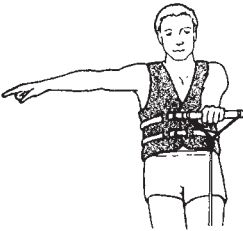
FASTER -
Palm of one hand pointing
upward.



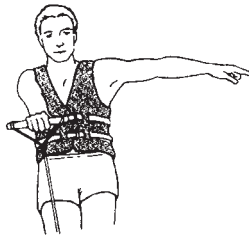
SLOWER -
Palm pointing down.



SPEED OK -
Arm upraised with thumb and
finger joined to form circle.



RIGHT TURN -
Arm outstretched pointing
to the right.



LEFT TURN -
Arm outstretched pointing
to the left.



RETURN TO DROP-OFF AREA -
Arm at 45 degree from body
pointing down to water and
swinging.



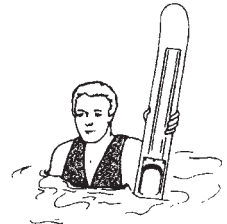
CUT MOTOR -
Finger drawn across
throat.



STOP -
Hand up, palm forward,
policeman style.



**SKIER OK.
AFTER THE FALL -**
Hands clenched
together overhead.



**PICK ME UP
OR FALLEN SKIER,
WATCH OUT -**
One ski extended
vertically out of water.

F00A2NL

SKIING SIGNALS

For more information about water skiing, please contact the American Water Ski Association, 1251 Holy Cow Road, Polk City, FL 33868 (1 863 324-4341).

INTERNET WEB SITE: www.usawaterski.org/

E-MAIL: usawaterski@usawaterski.org

Hypothermia

Hypothermia, the loss of body heat to the water, is a significant cause of deaths 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 4.4°C (40°F)) consideration should be given to using a coat or jacket style PFD as they cover more of the body than the vest style PFDs.

Some points to remember about hypothermia protection:

1. While afloat in the water, do not attempt to swim unless it is to reach a nearby boat, fellow survivor, or a floating object on 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.
2. Keep a positive attitude about your survival and rescue. This will improve your chances of extending your survival time until rescue. Your will to live does make a difference!
3. If there is more than one person in the water, huddling is recommended while waiting to be rescued. This action tends to reduce the rate of heat loss and thus increase the survival time.
4. 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.

Voluntary Inspections

Boating officials in many countries or their auxiliaries offer courtesy inspections to check out your boat. They will check for compliance with safety standards and required safety equipment. You may voluntarily consent to one of these inspections, and you are allowed time to make corrections without prosecution. Check with the competent authorities for details.

Safe Boating Courses

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

SAFETY EQUIPMENT

Required Safety Equipment

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

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

As the owner of the boat, 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 local regulations about required safety equipment.

Safety equipment required by regulations is mandatory. Personal flotation devices must be fitted to the people wearing them. If local regulations require additional equipment, it must be approved by a competent authority. Minimum requirements include the following:

- Personal flotation devices (PFDs)
- Fire extinguisher (class B-1)
- Visual distress signals (VDS)
- Navigation lights
- Sound producing devices (horn, air horn or whistle).

A cellular telephone in a waterproof bag or container has also been found to be beneficial to boaters when in distress or just for contacting someone on shore.

Personal Flotation Devices (PFDs)

In many countries, regulations require that you have at least one approved personal flotation device (PFD) for each person in a recreational boat and require that all children under 13 years of age wear a PFD at all times when the boat is underway, except when below deck or in an enclosed cabin. You may not use your boat unless all PFDs are in serviceable condition, readily

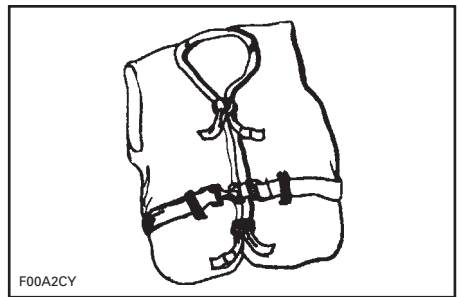
accessible, legibly marked with the approval number, and of an appropriate size (within the weight range and chest size marked on the PFD) for each person on board.

A PFD provides buoyancy to help keep your head above the water and to help you remain in a satisfactory 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

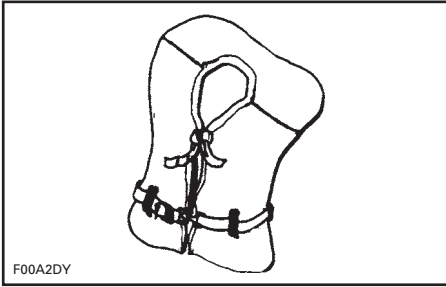
There are five types of approved PFDs.

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

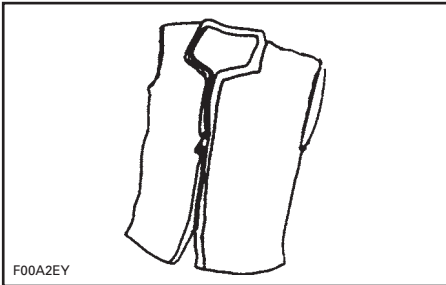
PFD Type II, Wearable turns its wearer in the same way as Type I, but not as effectively. The Type II does not turn as many persons under the same conditions as a Type I. You may prefer to use this PFD where there is a probability of quick rescue such as in areas where other people are commonly involved in water activities.



F00A2DY

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.

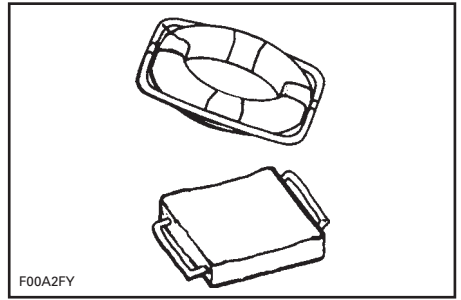


F00A2EY

TYPE III — WEARABLE

PFD Type IV, Throwable is required in addition to the PFDs previously discussed. The most common Type IV PFD is a buoyant cushion or ring buoy.

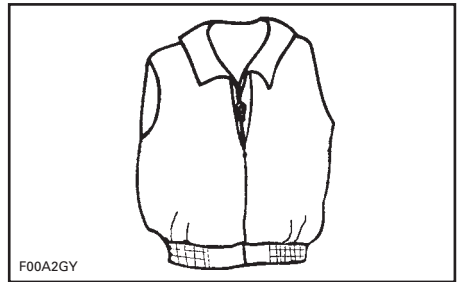
It is designed to be thrown to a person in the water, grasped and held by the user until he or she is rescued. A Type IV PFD should always be in serviceable condition and immediately available for use. Grasping this PFD may be difficult if the rescue is delayed or if the user is overcome by hypothermia (loss of body heat).



F00A2FY

TYPE IV — THROWABLE

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.



F00A2GY

TYPE V — WEARABLE

PFD Pointers

The purpose of a PFD is to help save your life. If you want it to support you when you are in the water, it needs to fit, float, and be in good condition.

- Try the PFD on and adjust it until it fits comfortably in and out of the water. Mark your PFD if you are the only wearer.

- To make sure the PFD works, wear it in the water. This will show you how it works and give you confidence when you use it.
- Teach children how to put a PFD on and allow them to try it in the water. That way, they know what the PFD is for and how it works. They will feel more comfortable with it if they suddenly find themselves in the water.
- If the PFD is wet, allow it to dry thoroughly before storing it. Do not dry it in front of a radiator or heater. Store it in a well-ventilated area.
- Keep PFDs away from sharp objects which can tear the fabric or puncture the flotation pads.
- For their own safety and the safety of others, all non-swimmers, poor swimmers, and small children should wear PFD's at all times whether the boat is stationary or moving.
- Check the PFD frequently to make sure that it is not torn, that flotation pads have no leaks, and that all seams and joints are securely sewn.
- If a PFD contains kapok, the kapok fibers may become waterlogged and lose their buoyancy after the vinyl inserts are punctured. If the kapok becomes hard or if it is soaked with water, replace it. It may not work when you need it.

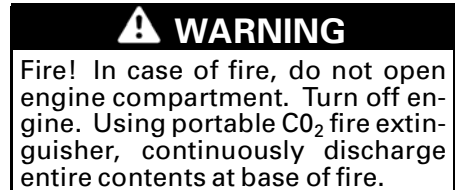
Fire Extinguishers

As the owner of the boat, you are responsible for supplying an approved fire extinguisher. Check with the local competent authorities. Boats (less than 7.9 m (26 ft)) are required to carry one (1) B-1 type hand portable fire extinguisher unless the boat is equipped with a fixed fire extinguishing system in the engine compartment.

Hand-held portable fire extinguishers should be mounted in readily accessible locations away from the engine

compartment. All persons aboard should know the location and proper operation of the fire extinguisher(s).

NOTE: Don't test fire extinguishers by squirting small amounts of the extinguishing compound. The extinguisher might not work when you really need it!



Visual Distress Signal Devices

Visual distress signal equipment may be of the pyrotechnic or non-pyrotechnic type. Regulations prohibit display of visual distress signals on the water under any circumstances except when assistance is required to prevent immediate or potential danger to persons on board a vessel. Check with the local authority to have proper equipment.

The equipment must be approved by the competent authorities, be in serviceable condition, and be stowed in a readily accessible location. Equipment having a date for serviceable life must be within the specified usage date shown.

Careful selection and proper stowage of visual distress equipment is very important if children are aboard.

DAY USE ONLY
Three orange smoke signals (one hand held and two floating) or one orange flag with black square and disk
NIGHT USE ONLY
One S-O-S electric distress light
DAY AND NIGHT USE
Three flares of the hand held, meteor or parachute type

Sound Signaling Devices

NOTE: No single signaling device is appropriate for all purposes. Consider keeping various types of equipment on board.

Boats less than 7.9 m (26 ft) in length are required to carry a hand, mouth, or power operated horn or whistle. It must produce a blast of two second duration and audible at a distance of at least 800 m (1/2 mi).

Following are standard whistle signals:

- One prolonged blast (warning signal)
- One short blast (pass on my port side)
- Two short blasts (pass on my starboard side)
- Three short blasts (engines in reverse)
- Five or more blasts (danger signal).

Navigation Lights

Navigation lights are intended to keep other vessels informed of your presence and course. If you are out on the water between sunset and sunrise, you are required to display appropriate navigation lights.

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.

Basic Gear

- Flashlight
- Mooring lines
- Compass
- Oar or paddle
- Distress signals
- First aid kit
- Dock fenders
- VHF radio
- EPIRB (Electronic Position Indicating Radio Beacon)
- Boat hook
- Extra warm clothing
- Charts
- Sunblock
- Tow line
- Second anchor and line
- Dewatering device (pump or bailer)
- Emergency supply of drinking water and food.

Tools

- Screwdrivers
- Pocket knife
- Pliers
- Electrician's tape
- Adjustable wrench
- Duct tape.

For additional tools, see your dealer.

Spare Parts

- Extra bulbs
- Extra fuses.

For additional parts, see your dealer.

SAFE BOATING PRACTICES

YOU are responsible for your own safety, the safety of your passengers, and the safety of fellow boaters. Ride smart from the start and we all win!

Drugs and Alcohol

Do not use drugs or drink alcohol while operating a boat. Like driving a car, driving a boat requires sober, attentive care. Operating a boat 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 boat.

WARNING

Alcohol consumption and boating do not mix! Operating under the influence endangers the lives of your passengers and other boaters. Federal laws prohibit operating a boat under the influence of alcohol or drugs.

Safe Operation

For safety reasons and proper care, always perform daily *PRE-RIDE INSPECTION* as specified in your Operator's Guide before operating your boat. Safe operation means that you do not misuse your boat nor do you allow your passengers to do so. Safe operation means using good judgment at all times. It includes, without limitation, the following actions:

- Load the boat within the limits listed on the capacity plate. Balance loads bow to stern and port to starboard.
- Maintain boat speed at or below the local legal limit. Avoid excessive speed or speeds not appropriate for operating conditions.

- Do not use the boat in weather or sea conditions beyond the skill or experience of the operator or the comfortable capability of the boat or passengers.
- Be sure at least one other passenger is familiar with the operation and safety aspects of the boat in case of an emergency.
- Make sure that passengers and gear do not obstruct the operator's view or ability to move.
- Do not exceed the maximum engine power rating stated on the certification plate attached to the boat.
- Observe all safety signs and warnings both inside the boat and in the immediate boating area.
- While your boat 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.
- In shallow water, proceed with caution and at very low speeds. Grounding or abrupt stops may result in injury. Debris may also be picked up and be thrown rearward by the jet pump onto people or property.
- Do not use the boat's reverse, to stop. You or your passenger(s) could be violently ejected forward or even off the boat onto the hazard.

Maneuverability of the Boat/ Towing

- Always keep in mind that as the throttle lever is returned to idle position, less directional control is available, and when the engine is off, directional control is lost. You need throttle to steer.

- Do not overload the boat or take on more passengers than designated for the particular boat. Overloading can affect maneuverability, stability and performance.
 - Avoid adding on accessories or equipment which may alter your control of the boat.
 - Riding with a passenger(s) or pulling a tube, skier or wakeboarder makes the boat 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 towables.
 - Always carry an observer when pulling a tube, skier or wakeboarder, proceed with only as much speed as required and follow the observer's instructions. Unless absolutely necessary, do not make tight, sharp turns. Keep a safe distance from the docks, other swimmers, craft or objects.
 - Use a tow rope of sufficient length and size and make sure it is adequately secured to your boat. Some boats are equipped or can be fitted with a specially designed towing mechanism. It can become a hazard should someone fall on it.
- PFD when the boat is underway unless they are in an enclosed cabin or below deck.
- Do not start or operate the boat if anyone is seated on the sun deck or swim platform, or is nearby in the water. Water and/or debris exiting jet thrust nozzle can cause severe injury.
 - The operator and passenger(s) should be properly seated before starting or moving the boat. All passenger(s) should be instructed to use the handholds or seat straps provided.
 - When accelerating a boat with a passenger(s), whether from a complete stop or while underway, always do so progressively. Fast acceleration may cause your passenger(s) to lose their balance or grip and strike something in the boat or fall out of the boat. Make sure that your passenger(s) know of, or anticipate, any rapid acceleration.

First Aid

As a boat operator, you should be familiar with basic first aid procedures that may be needed while you are far from help. Fish hook accidents or minor cuts and abrasions may be the most serious mishaps on board a boat, but you should also learn the proper procedures and be ready to deal with the truly serious problems like excessive bleeding, hypothermia, and burns. First aid literature and courses are available through most Red Cross chapters.

Operation by Minors

Minors should always be supervised by an adult whenever operating a boat. Many areas have laws regarding the minimum age and licensing requirements of minors. Be sure to contact the state boating authorities for information. BRP recommends a minimum operator age of 16 years old.

Passenger Safety

Before getting underway, show all passengers where emergency and safety equipment is stowed, and explain how to use it. Everyone aboard should wear rubber-soled shoes which resist slipping on wet surfaces. While underway, passengers should remain seated inside the deck rails. Don't allow passengers to drag their feet or hands in the water. Always use handholds and other safety hardware to prevent falls. All non-swimmers, poor swimmers, and children should wear a PFD at all times. Federal regulations require that children under 13 years of age wear a

RULES OF THE ROAD

As a responsible boater, you will comply with the *RULES OF THE ROAD*, the marine traffic laws enforced in your area. Navigating a boat is much the same as driving an automobile. Operating either one responsibly means complying with a set of rules intended to prevent accidents. Just as you assume other car drivers know what they are doing, other boaters assume you know what you are doing.

Operating a boat can be compared with driving 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!

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

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

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

Crossing

Give right of way to craft ahead and to your right. Never cross in front of another craft.

RED light (give way to the other craft).

GREEN light (you have the right of way).

Meeting Head-On

Keep right.

Passing

Give right of way to other craft and keep clear.

Navigation System

Navigational aids, such as signs or buoys, can help you identify 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 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 boat.

Collision Avoidance

- Do not decrease throttle when trying to steer away from objects. You need throttle to steer.
- Always keep a constant lookout for other water users, other craft 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 craft, people and objects.
- Do not wake or wave jump, ride the surf line or attempt to spray or splash others with your boat. You may misjudge the ability of the boat or your own driving skills and strike a boat or person.

- This boat 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 boat.
- Like any other boat, this boat has no brake. Stopping distance will vary depending on initial speed, load, wind, and water conditions. Practice stopping and docking in a safe, traffic free area to have an idea of how long it will take to stop the boat under varying conditions.
- Maintaining or increasing speed may be necessary to avoid a collision.

FUELING PROCEDURE

Recommended Fuel

Use unleaded gasoline or oxygenated fuel containing a maximum total of 10% of ethanol or methanol or both. The gasoline used must have the following recommended octane rating.

NOTICE Never experiment with other fuels or fuel ratios. The use of unrecommended fuel can result in boat performance deterioration and damage to critical parts in the fuel system and engine components.

Inside North America

MINIMUM OCTANE RATING		
(87 (RON + MON)/2)		
(91 (RON + MON)/2)	▼	▼
ENGINES	91	87
310 HP Naturally-aspirated	--	X
430 HP Supercharged Intercooled	X ⁽¹⁾	X
510 HP Supercharged Intercooled	X ⁽¹⁾	X

⁽¹⁾ For optimum engine performance.

Outside North America

MINIMUM OCTANE RATING		
92 RON		
95 RON	▼	▼
ENGINES	95	92
310 HP Naturally-Aspirated	--	X
430 HP Supercharged Intercooled	X ⁽¹⁾	X
510 HP Supercharged Intercooled	X ⁽¹⁾	X

⁽¹⁾ For optimum engine performance.

Fueling Procedure

Be very careful when fueling and adhere to the fueling procedures described below in this Operator's Guide and those given to you by the marina.

Know the capacity of the fuel tank. Avoid fueling at night except under well-lit conditions. Gas spills are not noticeable in the dark. Do not carry spare fuel or flammable liquids in any of the storage or engine compartments.

WARNING

Follow these safe boating fueling instructions explicitly.

1. Turn off engines.
2. Do not allow anyone to remain in or on the boat.
3. Tie boat securely to the fueling pier.
4. Use bilge blower for a minimum of 5 minutes.
5. Turn off bilge blower, bilge pump and any other devices that could produce a spark.
6. Ensure that the engine compartment is free of gasoline vapors, and inspect fuel lines for leaks and hose deterioration.

WARNING

If any leaks or gasoline odors are present, do not start the engine. Consult an authorized Sea-Doo Sport Boats dealer.

7. Ensure engine cover is closed to prevent fumes from entering the engine compartment.
8. Have a fire extinguisher close at hand.
9. Unscrew the cap counterclockwise and remove it.



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TYPICAL - FUEL TANK CAP

10. Insert the spout into the filler neck.
11. Pour fuel slowly so that air can escape from the tank and prevent fuel flowback. Be careful not to spill fuel.
12. Stop filling when the fuel reaches the bottom of filler neck. **Do not overfill.** Fully tighten fuel tank cap.

⚠ WARNING

Always stop the engines before refueling. 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. Fuel tank may be pressurized. Slowly turn cap when opening. Never use an open flame to check fuel level. When fueling, keep boat level. Do not overfill or top off the fuel tank and leave boat in the sun. As temperature increases, fuel expands and might overflow. Always wipe off any fuel spillage from the boat. Periodically verify fuel system.

TRAILERING

Refer to the trailer instructions for proper capacity, operation, maintenance, accessories and warranty.

Check the regulations in your area concerning towing a trailer, especially the following rules:

- Brake system
- Tow vehicle weight
- Mirrors.

NOTE: An optional brake system is available for your trailer, contact Karavan Trailers www.karavantrailers.com.

WARNING

Never tow a boat with water remaining in the ballast bags.

The weight of ballasts increases the load on the trailer, the axle, and the tires, which could lead to premature wear or failure. This also contributes to reduce the stability of your vehicle on the road by raising the center of gravity of the trailer.

Always completely empty the ballast bags before trailering.

Take the following precautions when trailering the boat:

1. Tie the boat to both bow and stern (front/rear) eyelets so that it is firmly retained on the trailer.
2. Remove stern light (if installed).
3. Ensure all storage compartment covers are properly latched.
4. Ensure walk-thru door is securely locked in the opened or closed position.
5. Empty the ballast bags (if so equipped).
6. Close bimini top (if so equipped).
7. A Sea-Doo cover can protect the boat, particularly before driving on dirt roads, to prevent dirt entering through the air intake openings.

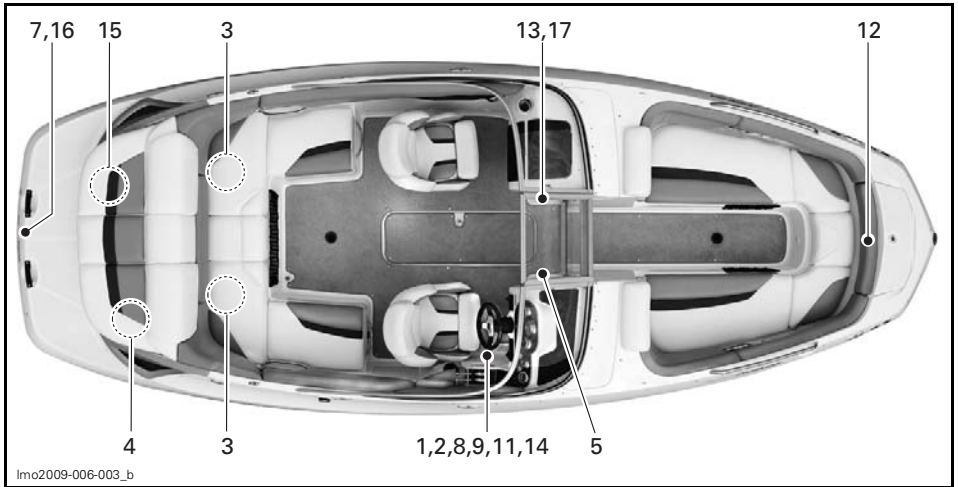
Observe trailering safety precautions.

NOTICE Always close and securely fasten rear storage compartment lid before trailering.

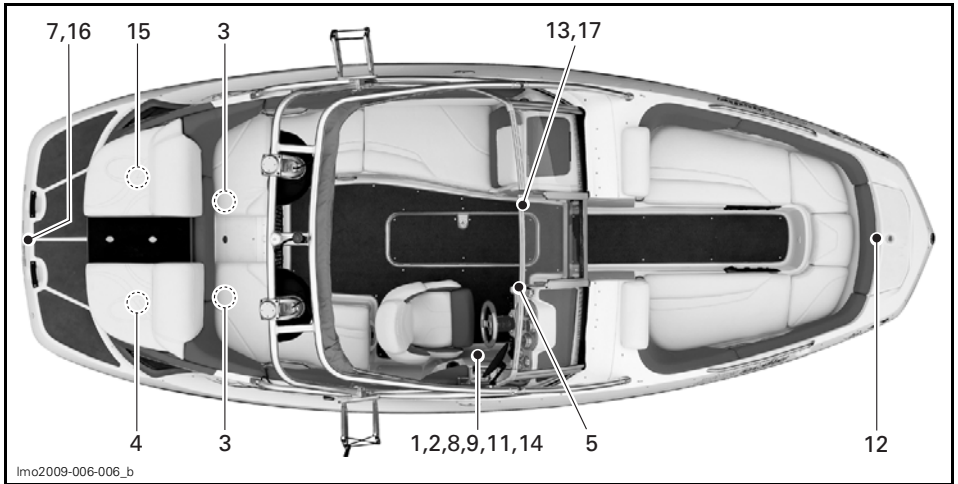
IMPORTANT ON-PRODUCT LABELS

The following labels are on your boat. If missing or damaged, they can be replaced free of charge. See an authorized Sea-Doo Sport Boat dealer.

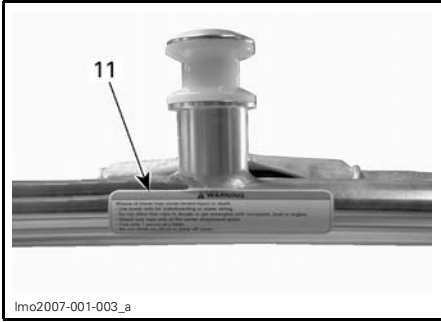
Please read the following labels carefully before operating your boat.



230 CHALLENGER



230 WAKE



WAKE TOWER — OPTIONAL

⚠ WARNING

Read and follow warning labels and operator's guide before operation. Severe injury or death can result from ignoring warnings or improper use of this sport boat. The performance of this sport boat may significantly exceed that of other boats you may have operated.

- Check throttle/shifter and steering operation and position before starting engine(s).
- Directional control is reduced with decreasing speed and lost when engine is off.
- Do not splash others or jump waves or wakes.
- Occupants should always wear approved PFD and recommended protective clothing.
- Do not operate if passengers are not properly seated and using handgrips, or if visibility is obstructed. Do not allow passenger(s) to ride on any portion of the boat not designated in the operator's guide as a seat for use when underway.
- Properly attach safety lanyard to your PFD.
- Keep a safe distance from all other water users. Be aware of and observe all applicable laws and regulations.

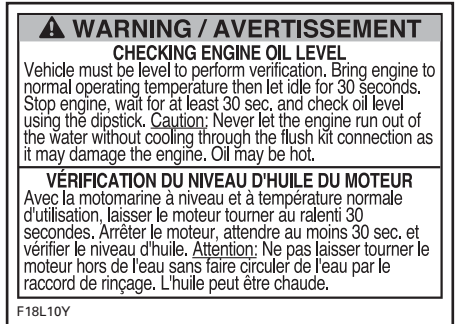
F13L1UL

LABEL 1

NOTE: Refer to actual label on boat.



LABEL 2



LABEL 3: TYPICAL

⚠ WARNING

- Remove battery from boat before charging.
- Do not overcharge battery.
- Improper charging of battery can cause explosion.

F13L1MY

LABEL 4

⚠ WARNING

Avoid serious personal injury or death.

- Turn off engine(s) before using swim platform.
- Keep people, clothing and hair away from jet nozzle(s) or intake grate(s) to avoid entanglement, drowning and carbon monoxide poisoning.

F13L1OY

LABEL 7

⚠ WARNING

Gasoline vapors can explode, resulting in injury or death. Before starting engine, operate blower for **5** minutes and check engine compartment bilge for gasoline vapors.

F13L1SY

LABEL 5

⚠ WARNING

Lock driver seat in forward position so that seat faces steering wheel during operation and does not swivel.

F13L1TY

LABEL 8

⚠ WARNING


Avoid serious injury or death from fire or explosion.

- Before fueling, stop engine and keep boat level.
- Open fuel cap slowly to relieve pressure.
- Do not overfill.
- Regularly inspect fuel system for leaks.
- Use regular unleaded gasoline and check oil level.

F13L1NY

LABEL 6

⚠ WARNING



Carbon monoxide (CO) can cause brain damage or death.

Engine and generator exhaust contains odorless and colorless carbon monoxide gas.

Signs of carbon monoxide poisoning include nausea, headache, dizziness, drowsiness, and lack of consciousness.

Get fresh air if anyone shows signs of carbon monoxide poisoning.

See Owner's Manual for information regarding carbon monoxide poisoning.

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LABEL 9

⚠ WARNING

Misuse of tower may cause severe injury or death.

- Use tower only for wakeboarding or water skiing.
- Do not allow tow rope to dangle or get entangled with occupants, boat or engine.
- Attach tow rope only at the center attachment point.
- Tow only 1 person at a time.
- Do not climb on, sit on or jump off tower.

F13L1PL

LABEL 10: WAKE TOWER-OPTIONAL

⚠ CAUTION

- Do not use bimini top as a support.
- Operate boat only at low speeds if bimini top is in use.
- Top can break or dislodge causing a risk of personal injury or interference with boat operation.

F04LCYY

LABEL 11: BIMINI TOP-OPTIONAL



F10L3EY

LABEL 13

⚠ WARNING

**Avoid Serious Or Fatal Injury.
Do Not Occupy Seat When Speed
Exceeds 5 M.P.H.**

F00L3BY

LABEL 12

⚠ WARNING

**Securely lock windshield door in the opened or closed position
before getting underway and at all times while boat is in motion.**

F21L25L

LABEL 14

BRP US Inc.

EMISSION CONTROL INFORMATION

This vehicle is certified to operate on unleaded gasoline and conforms to 20XX U.S. EPA & CALIFORNIA EMISSION regulations for marine SI engines.

BRP US Inc.

RENSEIGNEMENTS SUR LE DISPOSITIF ANTIPOLLUTION

Ce véhicule est certifié pour fonctionner à l'essence sans plomb et il répond aux normes 20XX de l'EPA des É.-U. & RÉGLEMENTATIONS CALIFORNIENNES pour les moteurs marins à étincelles (SI).

Engine family

XXX

Famille de moteur

FEL

XX g/kW-hr HC+NOx

Limite des émissions de la famille

Engine displacement

XXX cc

Cylindrée

Exhaust emissioncontrol system:

Spark plug type

NGK

Système de contrôle des Émissions

Spark plug gap

XX mm

Type de bougie

Power

XX kw

Écartement des électrodes

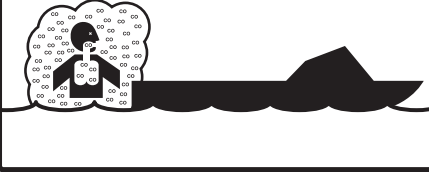
Puissance

SEE OPERATORS GUIDE FOR MAINTENANCE SPECIFICATIONS.

VOIR MANUEL DE L'OPÉRATEUR POUR LES SPÉCIFICATIONS DE MAINTENANCE.

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LABEL 15

⚠ DANGER	
	<p>Carbon monoxide (CO) can cause brain damage or death.</p> <p>Engine and generator exhaust contains odorless and colorless carbon monoxide gas.</p> <p>Carbon monoxide will be around the back of the boat when engines or generators are running.</p> <p>Move to fresh air if you feel nausea, headache, dizziness, or drowsiness.</p> <p style="text-align: right; font-size: small;">204901626</p>
lmo2007-002-002_en	

LABEL 16

⚠ CAUTION
<ul style="list-style-type: none"> • Use caution when operating door. • Hand will contact vehicle structure during operation. • Latch door in both the open and closed position at all times.
lmo2007-003-098_en

LABEL 17

PRE-RIDE INSPECTION

WARNING

The pre-ride inspection is very important before operating the boat. Always check the proper operation of critical controls, safety features and mechanical components before starting. If not done as specified here, severe injury or death might occur. Bring all safety equipment required by local laws.

For more detailed information on these items, refer to the applicable sections.

WARNING

Engines should be off and the DESS key must always be removed from DESS post before verifying any of the following. Only start boat once all items have been checked and operate properly.

SUMMARY

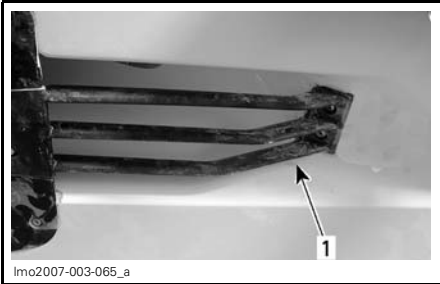
ITEM	OPERATION	✓
Hull	Inspect for damage. Ensure drain plug is secured.	
Jet pump water intakes	Inspect/clean.	
Battery	Inspect tightness of cables and retaining straps.	
Main battery cut-off switch	Ensure it is in the ON position.	
Navigation lights	Check operation.	
Fuel tank	Refill.	
Engine compartment	Verify for leaks or gasoline odor. Verify exhaust components integrity.	
Fire extinguisher	Inspect condition/mounting.	
Steering	Check operation.	
Throttle/shifter system	Check operation.	
Speed control system/ Perfect Pass (if applicable)	Perform linkage test (refer to <i>PERFECT PASS INSTRUCTION MANUAL</i>).	
Bilge blower and bilge pump	Check operation.	
DESS post and engine Start/Stop switches	Check operation.	
Mandatory safety boating equipment	Ensure all required safety equipment is on board.	
Storage compartment covers	Ensure they are closed and latched.	
Engines oil level	Check oil level in each engine. Refill as needed.	
Cooling system coolant level	Check coolant level in each engine. Refill as needed.	
Towing tower	Check tightness of mounting points fasteners.	

Hull

Inspect hull for cracks or damage.

Jet Pump Water Intakes

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



TYPICAL

1. Inspect this area

Inspect leading edges of the impellers, for nicks or bends, which greatly reduce performance of the boat.

Bilge

If water is present in the bilge, turn on pump switch to empty the bilge.

When on a trailer, block the wheels, unscrew the drain plugs and raise the bow slightly with the trailer jack (if so equipped) so that water can flow out of the bilge.

⚠ WARNING

Make sure drain plug is properly secured before launching the boat in water.

Battery

⚠ WARNING

Verify tightness of battery cables to their posts and condition of retaining straps/fasteners. Do not charge or boost battery while installed in engine compartment.

Fuel

Check fuel tank retaining straps/fasteners.

Inspect the fuel system component for leaks or gasoline odor.

With the boat level, fill the fuel tank.

Engine oil

Check the oil level and refill as necessary as per *MAINTENANCE PROCEDURES* section.

Engine Compartment

⚠ WARNING

If any leaks or gasoline odors are present, do not start the engines. Consult an authorized Sea-Doo Sport Boat dealer.

⚠ WARNING

In order to avoid potential burns, do not remove the coolant reservoir caps if engines are still hot.

Fire Extinguisher

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

Steering System

Have another person help check steering operation for free movement. When the steering is centered, the jet pump nozzles should be in the straight ahead position. Ensure the jet pump nozzles pivot easily while steering is turned.

⚠ WARNING

Check operation of steering and corresponding steering nozzles before starting engines.

Throttle System

Check throttle lever for free and smooth operation.

⚠ WARNING

Check operation of throttle lever before starting the engines.

Shifter Lever

Check that reverse gates moves freely. With shifter lever in forward position, the gates must be in upward position and locked. With the shifter lever in neutral position, gates must be in middle position. With shifter lever in reverse position, gates must be in downward position.

⚠ WARNING

Verify the reverse gates lock.

To verify the reverse gates lock, move shifter to the FORWARD position.

Pull backwards on the starboard reverse gate.

The reverse gates lock are working if the reverse gates stays in the up position.

NOTICE If the reverse gates does not stay in the up position when the shifter is at FORWARD, do not operate the boat further, see an authorized Sea-Doo Sport Boat dealer.

DESS Post and Engine Start/Stop Switches

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

⚠ WARNING

If engines do not shut-off when pushing engine Start/Stop switches or by disconnecting the DESS key from the DESS post, do not operate the boat further, see an authorized Sea-Doo Sport Boat dealer. Only start boat once all items have been checked and operate properly.

Storage Compartment Covers

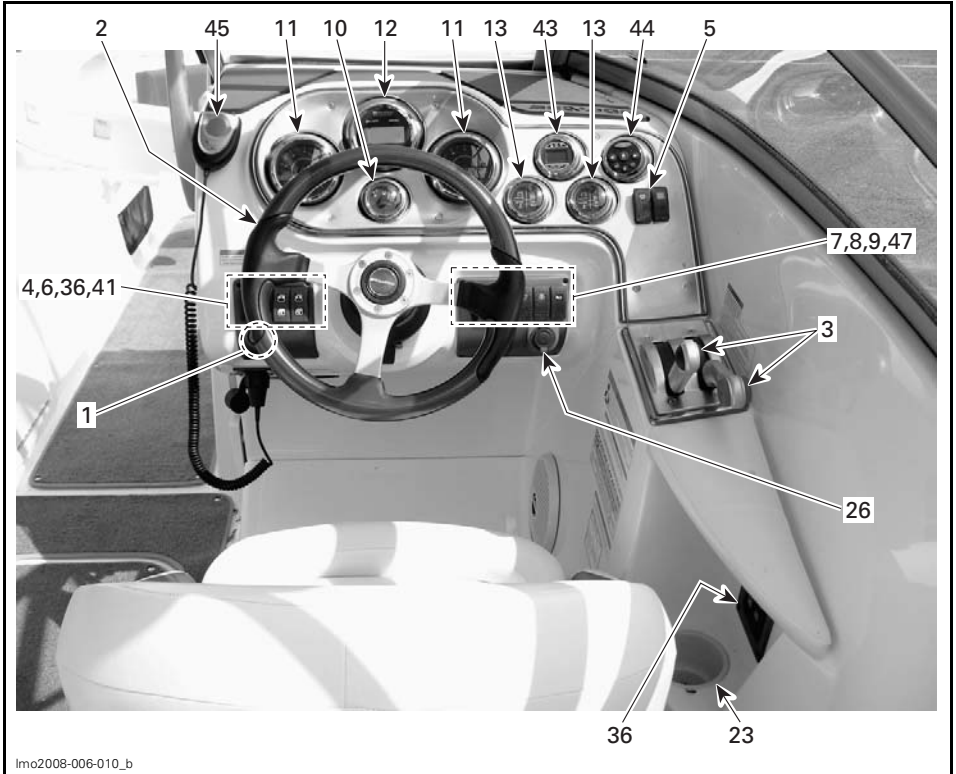
Ensure they are closed and latched.

VEHICLE INFORMATION

CONTROLS/INSTRUMENTS/EQUIPMENT

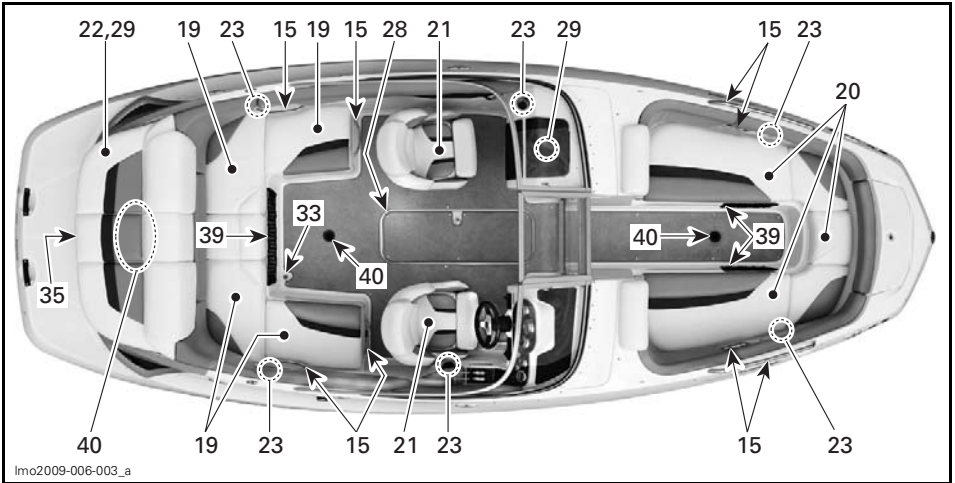
NOTE: Some controls/instruments/equipment do not apply or are optional on some models. In these cases their reference numbers are deliberately missing in the illustrations.

Cockpit View

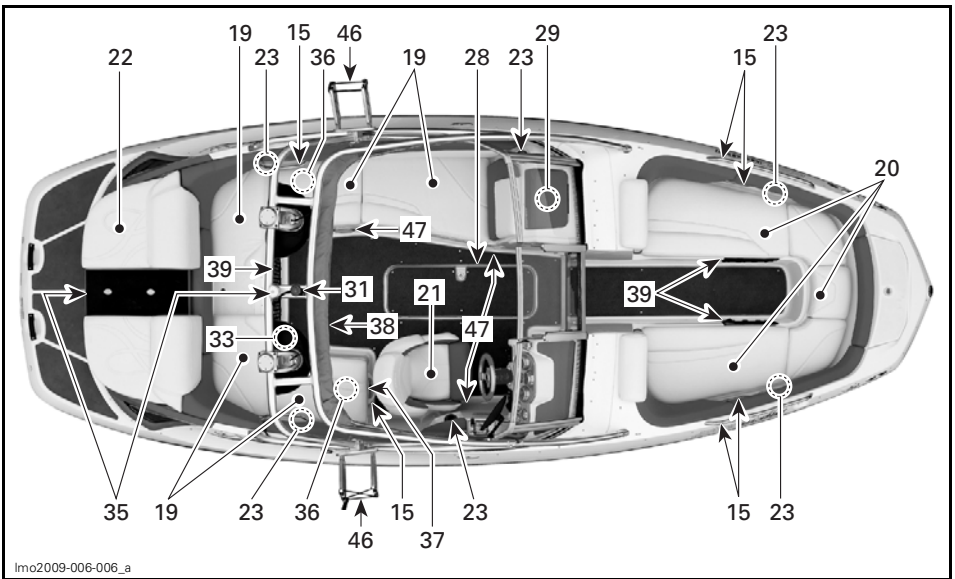


TYPICAL

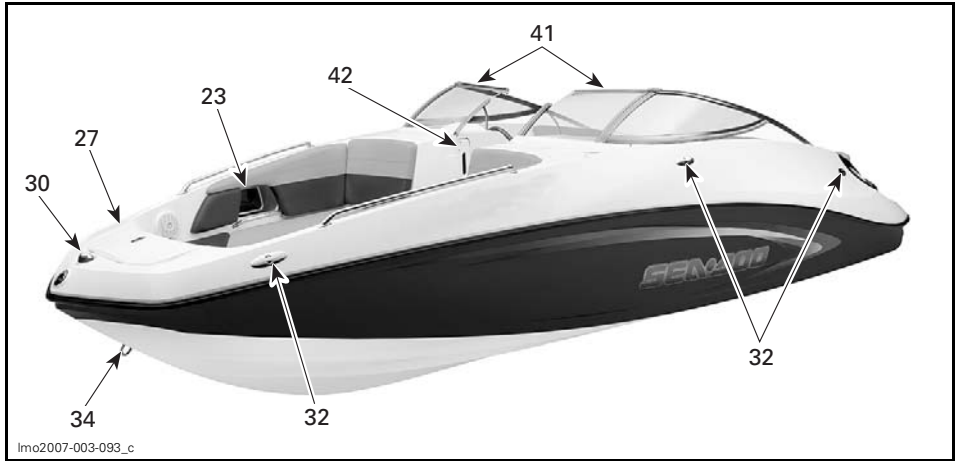
Overall View



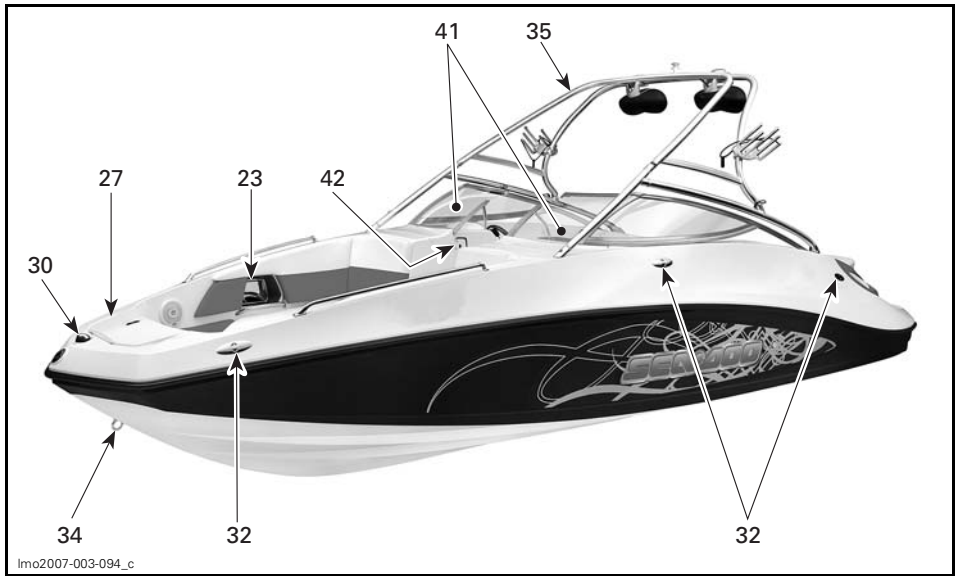
230 CHALLENGER



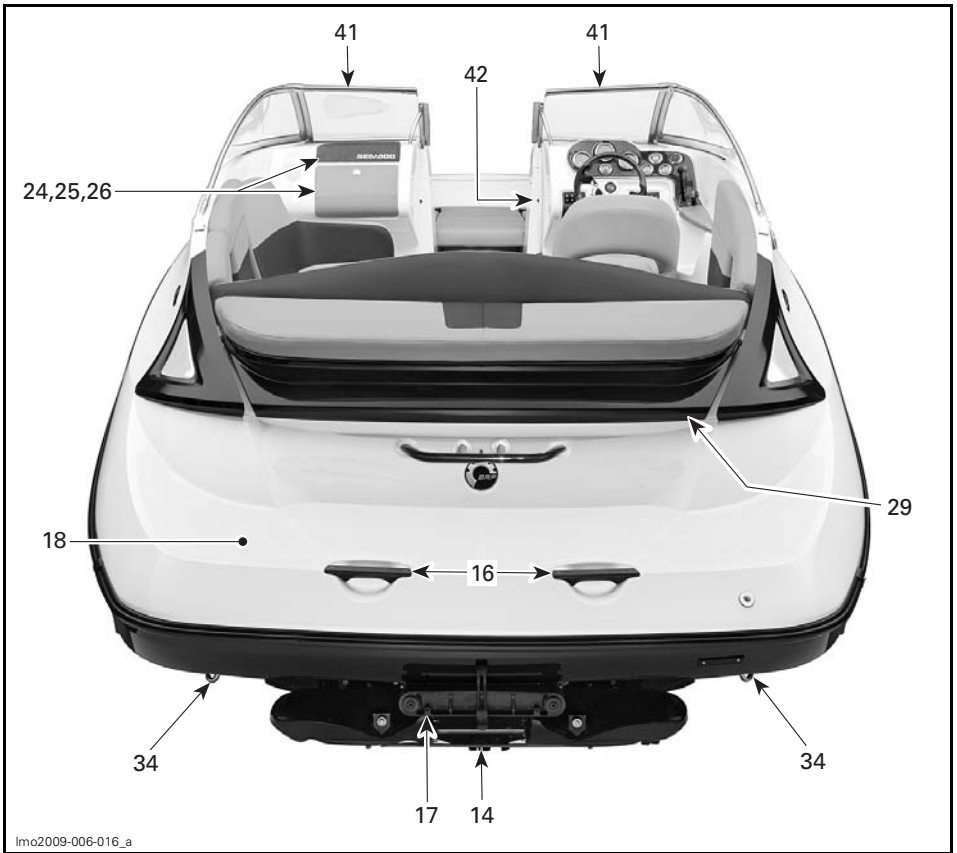
230 WAKE



230 CHALLENGER

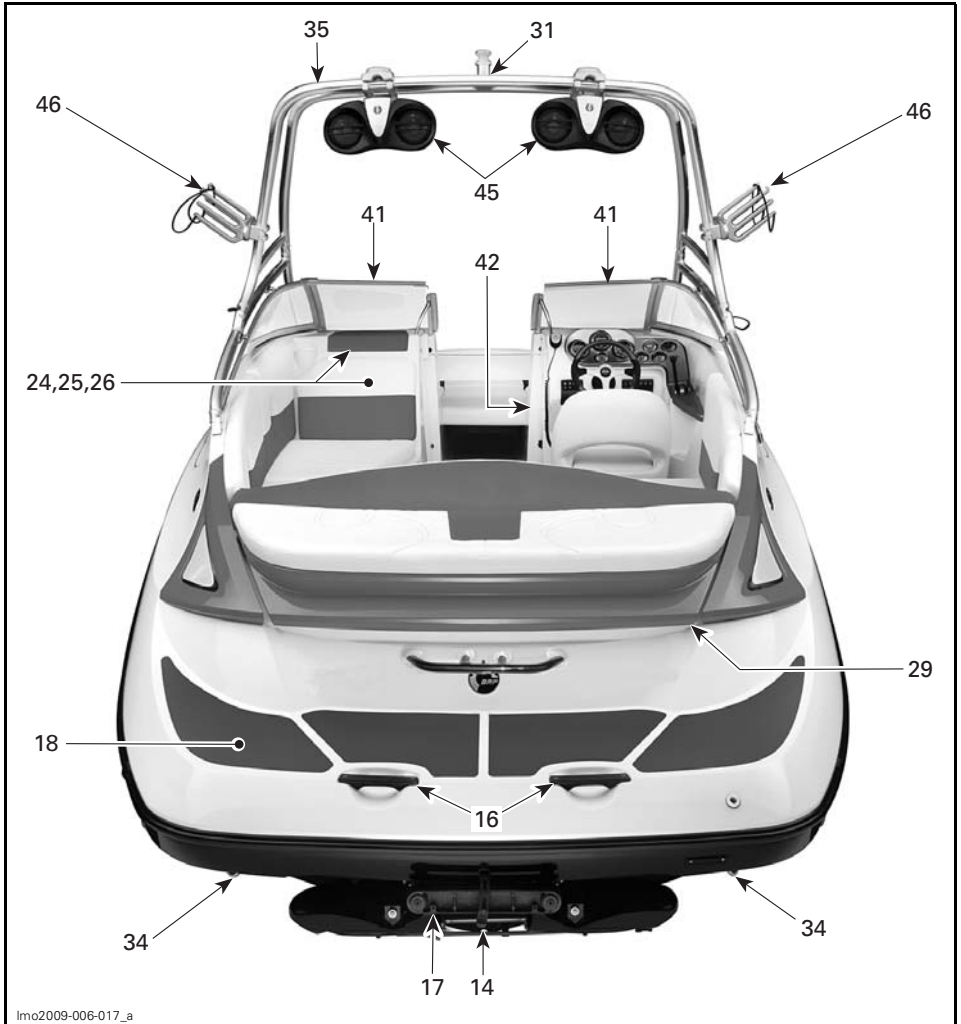


230 WAKE



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230 CHALLENGER



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230 WAKE

1) DESS Post (Engine Stop Switch)

⚠ WARNING

Always use the safety lanyard when operating your boat to help prevent a runaway boat and reduce the risk of personal injury or death. Remove the DESS key when stopped to help prevent accidental starting.

The DESS key should be securely snapped onto the Digitally Encoded Security System (DESS) post to allow engine starting.

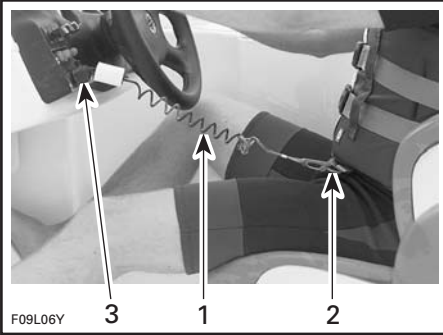
Two short beeps should sound indicating the system is ready to allow engines starting. Otherwise, refer to the *MONITORING SYSTEM BEEPER CODES* section.

Pulling the key from the DESS post stops engines.

⚠ WARNING

Should the DESS key become loose or fail to remain on DESS post, replace it immediately.

Always attach the safety lanyard to the operator's Personal Flotation Device and snap the key to the DESS post to be able to start each engine.

**TYPICAL**

1. Safety lanyard
2. Secure lanyard clip to PFD
3. Snap key to DESS post

⚠ WARNING

Directional control is reduced when throttle is decreased and lost when engine is off. Always remove DESS key when boat is not in operation.

⚠ WARNING

Do not lubricate the DESS post.

⚠ WARNING

While the engines can be stopped using the Start/Stop switches, good driving habits recommend that the DESS key also be disconnected when stopped.

Additional Information on the Digitally Encoded Security System (DESS)

The DESS key contains an electronic circuit that gives it a unique electronic serial number.

To have additional DESS keys programmed for your boat, refer to an authorized Sea-Doo Sport Boat dealer.

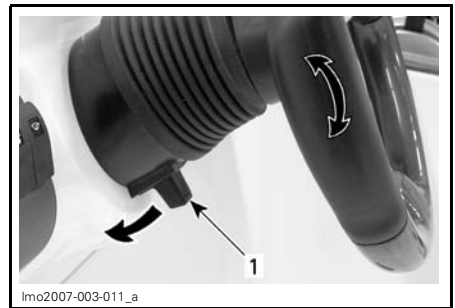
If the engines are stopped with the Start/Stop switches while the key remains on the DESS post, they can be restarted anytime by only pressing the Start/Stop switches during a period of approximately 10 minutes while the system remains under power. After this delay, it is necessary to remove and reinstall the key on the DESS post.

2) Steering Wheel

The steering wheel controls the direction of the boat. Turning the steering wheel clockwise steers the boat to the right and inversely.

Tilt Steering

For your convenience, steering wheel can be adjusted in many positions. Push and hold button at the base of the steering column to adjust steering wheel vertically. Release button when adjusted to the desired position.



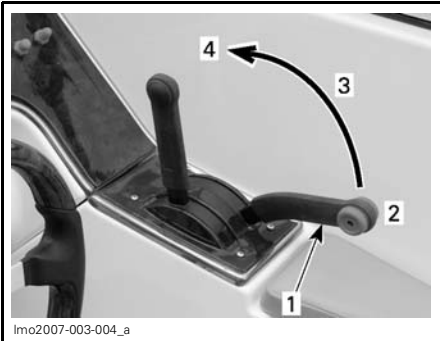
PUSH AND HOLD BUTTON TO ADJUST STEERING WHEEL

1. Button

3) Throttle/Shifter Lever

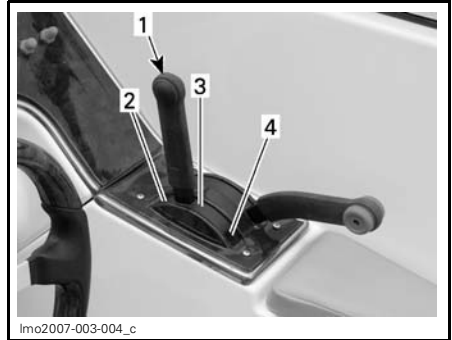
Throttle Lever

When pushed forward, the boat accelerates. When fully pulled back, engines return to idle speed and the boat is gradually stopped by water drag.



TYPICAL

1. Throttle lever
2. Idle speed
3. Increase/decrease speed
4. Full throttle



TYPICAL

1. Shifter lever
2. Forward
3. Neutral
4. Reverse

NOTICE Do not force lever, insure throttle lever is in idle position before shifting.

⚠ WARNING

Shift lever should only be used when the engine is idling and boat is completely stopped.

⚠ WARNING

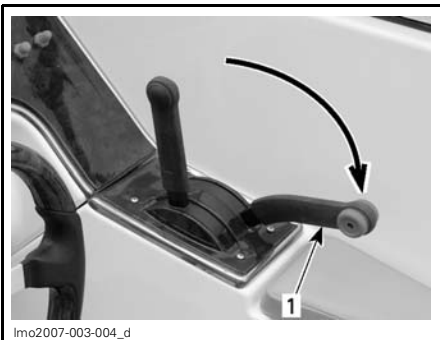
Only use reverse at slow speed and for the shortest time possible. Always ensure the path behind is clear of objects and persons including children playing in shallow water.

Shifter Lever

A 3-position lever:

- Forward
- Neutral
- Reverse.

In order to shift, throttle lever must be fully pulled back to idle speed position.



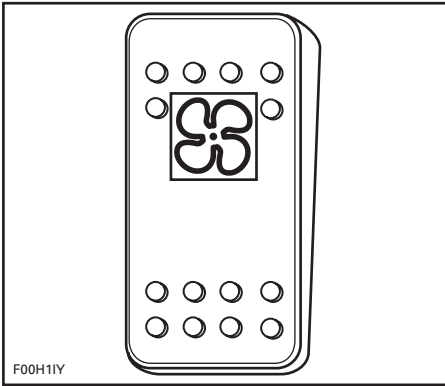
TYPICAL

1. Throttle lever must be fully pulled back (idle speed) to shift

NOTICE Never rev the engine at high RPM in reverse.

4) Bilge Blower Switch

A 2-position OFF/ON switch.



BILGE BLOWER SWITCH

When turned on, the blower ventilates the engine compartment.

⚠ WARNING

Gasoline vapors can explode, resulting in injury or death. Always use blower for a minimum of 5 minutes before starting engine and turn it OFF above idle speed. Use of the bilge blower should never replace “smelling” for gasoline vapors.

⚠ WARNING

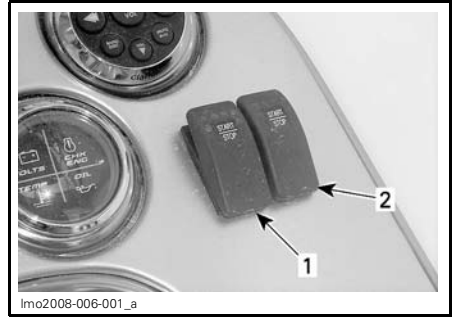
If any leaks or gasoline odors are present, do not start the engine. Consult an authorized Sea-Doo Sport Boats dealer.

NOTICE Using the bilge blower for a prolonged time when the engines are not running will discharge the battery.

Blower should be turned off during boat operation.

5) Start/Stop Switches

Dual function push switches. Used to start as well as to stop engines.



TYPICAL

1. For port engine
2. For starboard engine

Starting

⚠ WARNING

Engine exhaust fumes contain carbon monoxide (CO) which can accumulate in and around the boat (under bimini top, in cockpit, etc.). CO can be harmful or fatal if inhaled. Assure there is adequate ventilation whenever running engine(s).

Shifter must be in neutral position and the DESS key must be on the DESS post to allow engine starting.

To start engines, press and hold Start/Stop. Release immediately after the engine is started. Proceed the same way for the other engine. Only one engine at a time can be started.

Stopping

⚠ WARNING

While engines can be stopped by pressing the Start/Stop switches, we strongly recommend stopping the engines by removing the DESS key. This will instill good habits.

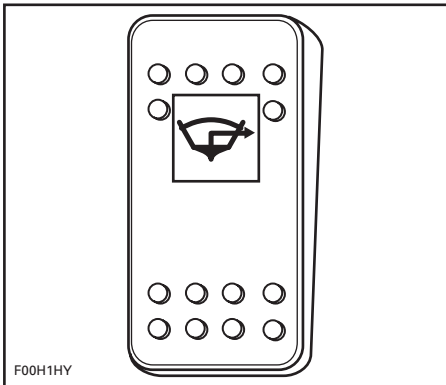
Pressing either switch when engines are running will stop that engine.

⚠ WARNING

Directional control of the boat is not available when engines are stopped.

6) Bilge Pump Switch

A 2-position OFF/ON switch.



BILGE PUMP SWITCH

Turn to ON position when a manual operation of the bilge pump is required (after cleaning, storage, etc.).

Turn switch to OFF when finished.

NOTICE Do not operate for a prolonged time if the bilge is dry: battery drainage will occur and pump will be damaged.

The bilge pump may be operated without the DESS key on its post.

NOTICE Always turn pump OFF when bilge is dry or before operating the engines above idle. Bilge pump will then switch to automatic mode.

Automatic Bilge Pump

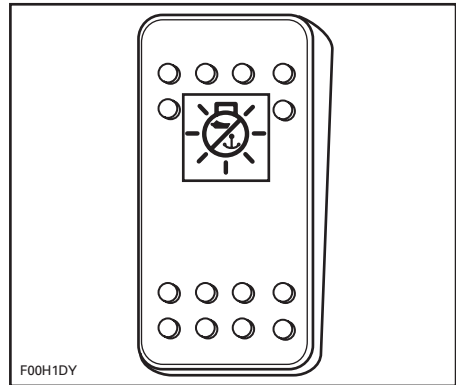
An automatic bilge pump evacuates water from the bilge. A water sensor detects the water, activating the pump. After the water is pumped out, the pump shuts-off automatically. This

automatic mode is working at all times: with/without DESS key on its post and with/without engines running.

NOTICE When the main battery cut-off switch is turned OFF while boat is moored, the bilge pump will start if water comes up in the bilge.

7) Navigation Lights Switch

A 3-position NAV/OFF/ANC switch.



NAVIGATION LIGHTS SWITCH

ANC: Turns on the anchorage light when the boat is anchored. Only the stern light is lit.

OFF: Turns off all lights.

NAV: Turns on both bow and stern lights and illuminates the gauges.

⚠ WARNING

Navigation lights should always be used between sunset and sunrise. Ensure the stern light is installed. See *STERN LIGHT SOCKET* in this section for location and installation.

8) Deck Lights/Switch

Deck Lights

Convenient lights to use between sunset and sunrise. These lights can assist passenger when boarding as well as creating a nice ambience.

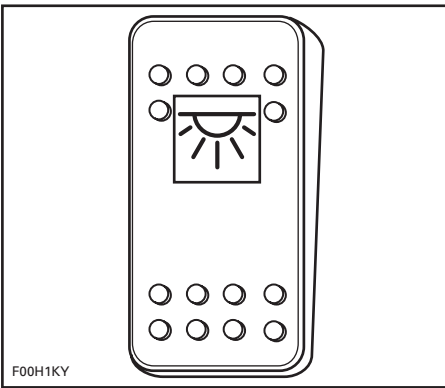


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DECK LIGHT

Deck Lights Switch

A 2-position OFF/ON switch.



F00H1KY

DECK LIGHTS SWITCH

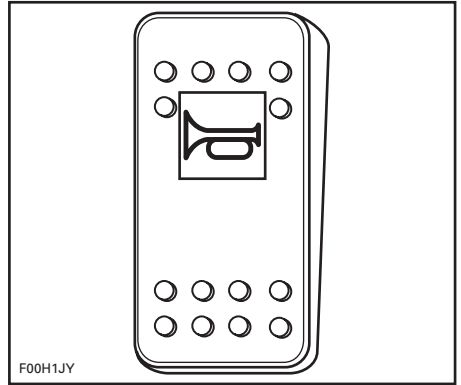
Press switch to ON position to turn on the deck lights.

Press switch to OFF position to turn off the deck lights.

NOTICE Using the deck lights for a prolonged time when the engine is not running will discharge the battery.

9) Horn Switch

A 2-position push type switch.



F00H1JY

HORN SWITCH

Press and hold the switch to activate the horn.

Release the switch to stop horn.

10) Fuel Gauge

Located in dashboard, this gauge continuously indicates the amount of fuel in fuel tank when engines are running.

The gauge is illuminated whenever the navigation lights are used.

The fuel level can also be verified without having engines running. With the safety lanyard removed from the DESS post, push either start/stop button; the gauge will be activated for approximately 30 seconds.

11) Tachometers

The tachometers indicate the revolutions per minute (RPM) of the engines. Multiply reading by 1000 to obtain actual RPM.

The gauges are illuminated whenever the navigation lights are used.

12) Speedometer

230 Challenger

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

The gauge is illuminated whenever the navigation lights are used.

230 Wake Edition

Boat speed will be displayed via the Perfect Pass gauge.

Please refer to the *PERFECT PASS INSTRUCTION MANUAL* provided with your boat.



Speed Control/Perfect Pass®

230 Wake Edition Only

When activated, the Perfect Pass speed control system allows your boat to precisely maintain a constant speed for waterskiing or wakeboarding.

Please refer to the *PERFECT PASS INSTRUCTION MANUAL* provided with your boat for the operating instructions of the speed control system.

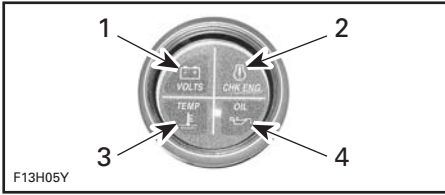
⚠ WARNING

BEFORE using the speed control system or taking on passengers and starting any watersport activities:

1. Thoroughly read and understand all the operating instructions provided in the *PERFECT PASS INSTRUCTION MANUAL*.
2. Make sure to have acquired the appropriate experience with your boat to be thoroughly familiar with its operation and dynamic behavior.
3. The Perfect Pass is not a steering control device. You must always be on the look-out and maintain control of the boat at all time using safe driving techniques.
4. Always keep your hand on the throttle lever while the Perfect Pass is in operation.
5. The Perfect Pass is no substitute for normal safe watersport practices. Never pull a skier, wakeboarder, or any other water toy without a spotter onboard.
6. Do not modify the Perfect Pass system in any way. If a malfunction is noticed or suspected, do not use the system and have an authorized dealer inspect or repair it.

NOTE: BRP recommends including the linkage test described in the *TROUBLESHOOTING* section of the *PERFECT PASS INSTRUCTION MANUAL* as part of your normal *PRE-RIDE INSPECTION* routine inspection.

13) Monitoring Gauges



TYPICAL

1. Battery
2. Engine
3. Temperature
4. Oil

Low Battery Warning Light

Before the battery becomes too discharged to start the engines, the volts indicator light will come on.

When the indicator light is on, you should discontinue all use of electrical accessories immediately and start the engine(s) in order to recharge the battery.

Check Engine Light

When the ECM detects a fault code, the check engine light will come on and a beep may sound.

Turn engine(s) off. Wait one (1) minute. Restart engine(s). If light(s) remains lit, take boat to nearest authorized Sea-Doo Sport Boat dealer for servicing.

Engine Temperature Light

Engine or exhaust system overheating.

NOTICE If the temperature indicator light comes on, stop engine(s) as soon as possible.

Turn off engine as soon as possible. Check oil level(s) and refill.

Check coolant levels. Refer to *MAINTENANCE PROCEDURE*. If engine(s) still overheats, continue the following procedure.

Perform *JET PUMP WATER INTAKE AND IMPELLER CLEANING* procedure described in *SPECIAL PROCEDURES*.

When back to shore, flush exhaust cooling system. Refer to *POST-OPERATION CARE*.

Restart the engine(s). If this does not correct the situation, do not run the engine(s) further. Refer to an authorized Sea-Doo Sport Boat dealer for servicing.

NOTICE Running engine(s) with low oil pressure may severely damage the engine(s).

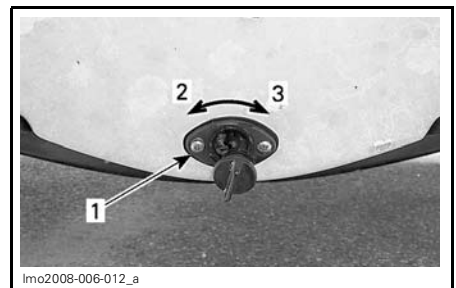
Oil Pressure Light

The oil light turns on when the oil pressure is low or high in the engine(s). Check oil as soon as possible. If lamp remains ON contact an authorized Sea-Doo Sport Boat dealer.

NOTICE Never run engines out of oil. Serious engine damage will occur.

14) Bilge Drain Plug

Once boat is on trailer, unscrew the drain plug, block the wheels and raise the bow slightly with the trailer jack (if so equipped) to allow water to drain.



1. Drain plug
2. Loosen
3. Tighten

15) Grab Handles

Grab handles provide a handhold for the passengers.

Although grab handles are provided, never perform maneuvers that place a passenger or the driver at risk for being ejected or thrown out of their seat.

NOTICE Never use the grab handles to pull anything or to lift the boat.

Refer to components location illustrations at the beginning of this section for grab handle locations.

16) Rear Grab Handles

Provide a handhold for boarding when needed.

NOTICE Never use the grab handle to tow anything or to lift the boat.

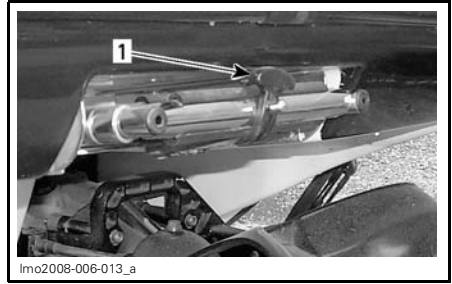
17) Ladder

⚠ WARNING

Engines should be OFF when using ladder. Keep limbs away from jets or intake grates. Only one person at a time on the ladder. Never use the ladder for pulling, towing, diving or jumping, boarding a boat that is out of the water or any other purpose other than a ladder.

Located under the swim platform, the ladder conveniently helps in reboarding the boat.

Pull latch to release the ladder.



1. Latch

Slide ladder toward rear, then push down.



LADDER LOWERED

To store ladder, lift horizontally, slide toward front and secure latch.

NOTICE In order to avoid damage to the ladder, it should not be used when the boat is out of the water.

18) Swim Platform

Provides an anti-skid surface for easy boarding either from front or rear of boat depending on the models.

⚠ WARNING

Engines must be off when using swim platform. Keep away from jets or intake grates.

19) Passenger Seats

Each passenger should be seated while underway.

There is storage beneath each side passenger seat cushion.

⚠ WARNING

Allow no one to sit on edge of the boat or to stand up while in operation. Seat/grab handles should be used in rough waters.

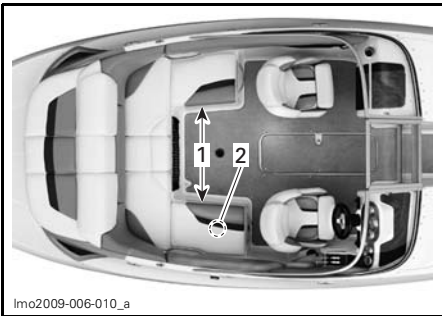
Typical Seat Cushion Opening

To open the storage compartment, pull on front portion of cushion.

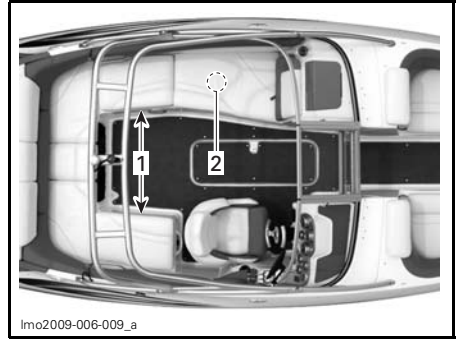


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TYPICAL — SEAT CUSHION OPEN

Side Passenger Seats and Storage



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230 CHALLENGER AND
230 CHALLENGER SE SET-UP
1. Side seats and storage
2. Removable cooler



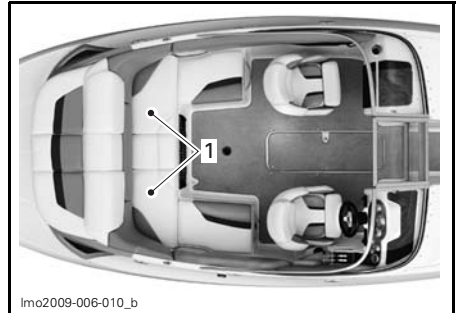
Imo2009-006-009_a
230 CHALLENGER SP AND 230 WAKE
SET-UP
1. Side seats and storage
2. Removable cooler

The ballast bags are located beneath the aft side seat cushions.

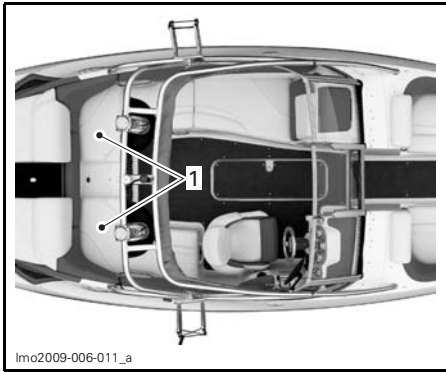
NOTICE Avoid storing any items in ballast compartments that might damage ballast bags.

NOTICE Ensure to remove all items in ballast compartments before filling ballast bags.

Rear Seats and Storage



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230 CHALLENGER AND
230 CHALLENGER SE SET-UP
1. Rear seats and storage



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230 CHALLENGER SP AND 230 WAKE SET-UP

1. Rear seats and storage



lmo2009-006-007

TYPICAL — STARBOARD SIDE SHOWN

20) Bow Seats

⚠ WARNING

Avoid serious or fatal injury. Do not occupy seat when speed exceeds 8 km/h (5 MPH).

⚠ WARNING

No passenger should use the most forward seat in the bow area if it faces backwards unless the boat is stopped or under idle speed.

Use grab handles as necessary.

Bow Seat Storage Compartment

Lift the front portion of the seat cushion to open the storage compartment.

21) Driver/Passenger Seat

Swivel Adjustment

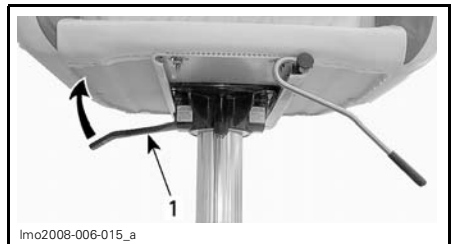
⚠ WARNING

Always ensure drivers seat swivel is locked so that seat faces steering wheel before riding.

230 Challenger and 230 Challenger SE

Both driver and passenger seats can swivel.

Pull and hold the lever located on the RH side of the seat, swivel seat to the desired position, then release lever.



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1. Lever

230 Challenger SP and 230 Wake

Both driver and passenger seats can swivel.

Pull the lever located on the RH side of the seat

Swivel seat to the desired position, then push the lever down to lock the seat in position.

The mechanism resistance can be increased by turning the knob clockwise or decreased by turning the knob counterclockwise.

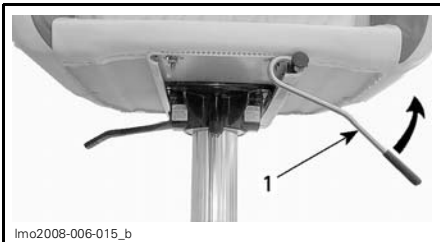


1. Lever (swivel operation)
2. Knob (resistance adjustment)

Forward and Backward Adjustment

Both driver and passenger seats can be adjusted forward or backward.

Pull and hold the lever located on the RH side of the seat, set the seat to the desired position, then release the lever.



- 230 CHALLENGER AND
230 CHALLENGER SE**
1. Lever



- 230 CHALLENGER SP AND 230 WAKE**
1. Lever

Height Adjustment

230 Challenger SP and 230 Wake Only

Both driver and passenger seats can be adjusted in height.

To move the seat up, pull the foremost lever and release weight from the seat cushion. When the desired height is reached, release the lever.

To move the seat down, pull the foremost lever and apply weight on the seat cushion. When the desired height is reached, release the lever.



1. Lever

Seat Bolster Position Adjustment

Adjustable seat bolster that allows different seating positions for low speeds. It also allows the driver, if ad-

justed in an upright position, to stand up between the helm and the seat for low speed operation.



TYPICAL — LIFT SEAT BOLSTER

22) Sun Deck

A convenient space to rest or sunbathe while anchored.

⚠ WARNING

Do not start or operate the boat if a person is seated on the sun deck.

23) Cup Holders

Convenient locations for non-alcoholic beverages.

⚠ WARNING

Do not drink alcoholic beverages while aboard. Do not keep bottles, cans etc. in cup holders while riding at speed and/or on rough water.



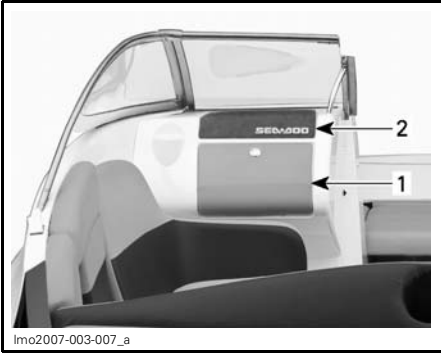
1. Cup holder

24) Glove Box/Storage Compartment

Convenient storage location for carrying small personal articles.

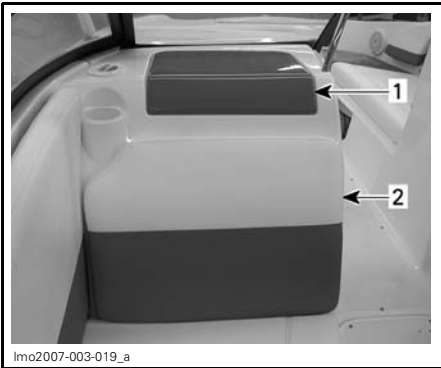
NOTE: Always relatch glove box before operating boat.

⚠ CAUTION Never operate the boat with the glove box or storage compartment cover open.



TYPICAL - 230 CHALLENGER

1. Lower glove box
2. Upper glove box



TYPICAL - 230 WAKE EDITION

1. Glove box
2. Storage compartment

NOTE: To have access to storage compartment, lift seat backrest upward.

STORAGE COMPARTMENT —
230 WAKE EDITION

25) AM/FM Radio/CD Player

Refer to manufacturer's guide for complete explanation of features and controls.

NOTICE Using the AM/FM radio/CD player for a prolonged time without engines running may discharge the battery.



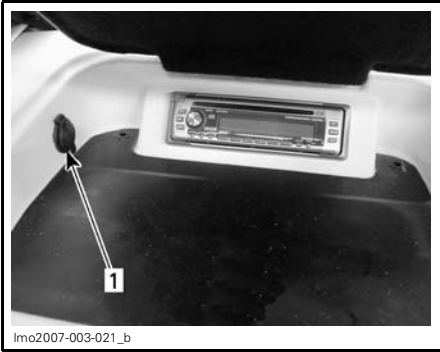
1. AM/FM Radio/CD Player

26) 12-Volt Power Outlets

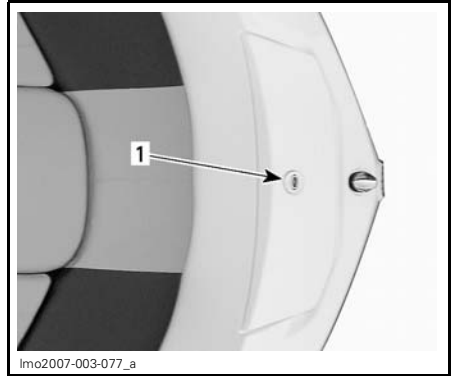
12-volt power outlets are provided to power temporary accessories such as a cellular phone or other 12-volt portable devices.

NOTICE Close protective cap when jack is not in use to protect against weather.

NOTICE Using the radio or other 12-volt portable devices for a prolonged time without engine running may discharge the battery.



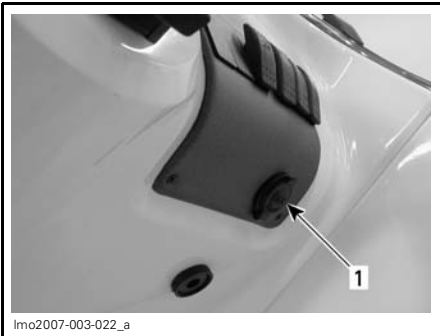
UPPER GLOVE BOX
1. 12-volt power outlet



1. Latch

To close, lift the latch ring and slowly lower the cover.

NOTE: Always relatch compartment lid.



TYPICAL — RH SIDE OF DRIVER'S CONSOLE
1. 12-volt power outlet

28) Deck Storage Compartment

The deck storage compartment is a convenient lockable location for water-skis, paddles, anchor and rope, etc.

Use the provided key to unlock the compartment if needed.

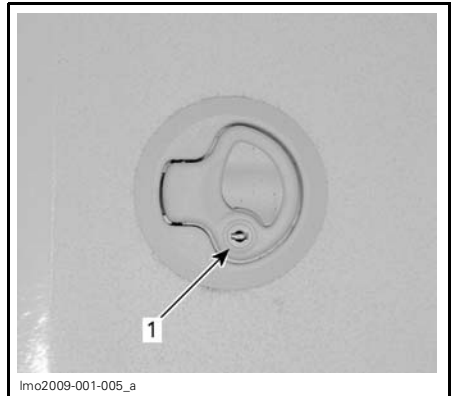
27) Bow Storage Compartment

⚠ WARNING

Never leave breakable objects in the bow storage compartment. Never operate the boat with the bow storage compartment cover open.

A large, convenient storage compartment for anchor, PFD's, towels, etc.

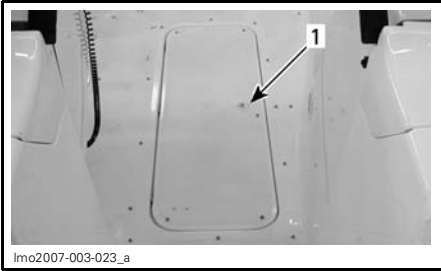
To open, lift the latch ring and open cover gently until stopped by retaining shock.



TYPICAL
1. Lock

⚠ WARNING

Never leave any heavy or loose breakable objects in the deck storage compartment. Never operate the boat with the deck storage compartment cover open.

**TYPICAL**

1. Pull latch and lift cover

Lift the latch ring and open cover gently until stopped by retaining shock.

When completely opened, the cover remains in that position on calm water.

To close, lift the latch ring and slowly lower the cover.

Always close deck storage compartment cover before getting underway. Lock if desired.

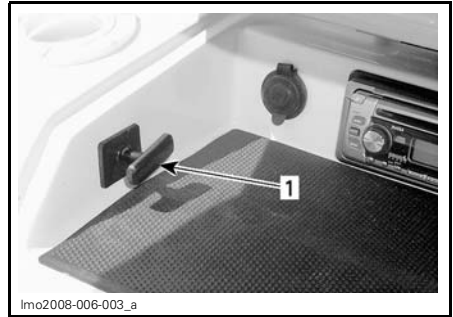
29) Rear Storage Compartment/Engine Cover/Release Handle

Convenient rear storage location for carrying large personal articles. Ideal location for spare Personal Flotation Device (PFD), towels, lunch etc.

The latch handle is located inside the glove box/storage compartment.

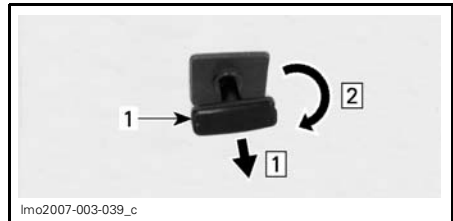
**230 CHALLENGER/SE**

1. Latch handle

**230 CHALLENGER SP/230 WAKE**

1. Latch handle

To release latch, pull and turn latch handle. Turning the latch handle locks it in position. Lift storage compartment cover, the gas assist cylinder will complete the opening and hold the cover open.

**TYPICAL**

1. Latch handle

Step 1: Pull

Step 2: Turn

Unlock the latch handle before closing cover.

⚠ WARNING

Never leave any heavy or breakable objects in the storage compartment. Never operate the boat with the rear storage compartment cover open or unlocked.

NOTICE Always ensure rear storage compartment lid is closed and securely locked before trailering.

Storage Tray

NOTICE In order to avoid damage, **MAXIMUM LOAD** on storage tray must not exceed 22.5 kg (50 lb).

The storage tray is removable, allowing access to the engine compartment. Grab the handles and lift in a upward movement.

⚠ WARNING

When storage tray is lifted or removed, never touch any electrical part when starting engines or while in operation. Never leave any object, rag, tool, etc., in the engine compartment or in the bilge.

Ensure latch cable is returned to the locking position, then firmly close storage compartment cover to re-latch.

30) Bow Lights**Bow Lights**

Mandatory red and green lights. See *NAVIGATION LIGHT SWITCH* in this section.

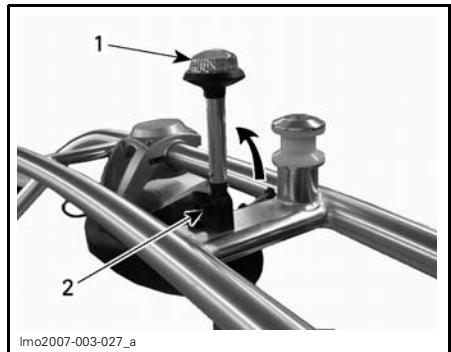
31) Stern Light

Mandatory white stern light (white).

Models Equipped with Tower

The stern light is located on top of the wake tower. To set upright, release light by turning button counterclockwise.

When completed, turn button clockwise to secure in position.



1. Stern light
2. Button

All Models

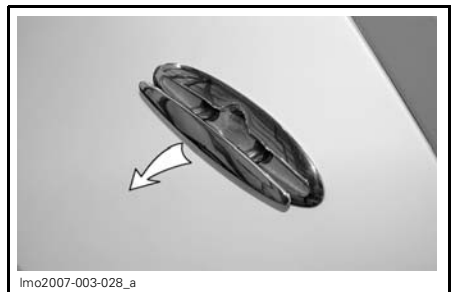
To turn the stern light on, see *NAVIGATION LIGHTS SWITCH* in this section.

NOTICE Using the stern light for a prolonged time when the engine is not running will discharge the battery.

32) Mooring Cleats

When mooring to a dock, it is recommended to secure with both front and rear cleats. The use of dock lines with sealed air fenders is recommended to protect your boat.

NOTICE Never use mooring cleats to pull anything or to lift the boat.



CHALLENGER SE AND WAKE EDITION MODELS

33) Deck Drain

Deck drain provides drainage of water from rain, deck washing, water splashing, etc.

Keep clean to avoid clogging.

34) Bow/Stern Eyelets

Bow Eyelet

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



lmo2007-003-008_a

1. Bow eyelet

Stern Eyelets

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



lmo2007-003-009_a

1. Stern eyelet

35) Water Sport Towing Attachments

Please read and often refer to *WATER SPORTS* information in the *SAFETY INFORMATION* section at the front of this guide.

⚠ WARNING

“Teak Surfing” is extremely dangerous to participants due to their proximity to the rear of the boat where direct contact with the exhaust fumes from the boat engine is the highest. Carbon monoxide poisoning can occur and result in mental disorientation, dizziness, drowsiness, and loss of consciousness. The combination of carbon monoxide exposure and non-use of a life jacket (PDF) make this new water recreation activity an incredibly dangerous and potentially deadly sport.

⚠ WARNING

When pulling a tube, skier or wakeboarder, always have an observer, proceed with only as much speed as required, and follow the observer's instructions.

⚠ WARNING

Pulling a tube, skier or wakeboarder makes the boat handle differently and requires greater skill. Unless absolutely necessary, do not make tight, sharp turns. Keep a safe distance from the docks, swimmers, other craft or objects. Be advised that serious injury can result if the tow rope becomes slack during a tight turn or when circling. The rope could become wrapped around the neck or limbs of a person.

Tow Hook

Provides rope attachment for towing activities.



NOTICE Never use the tow hook to tow any other craft.

Towing Tower (if equipped)

Provides rope attachment for towing activities.

NOTE: This tower is not intended to be folded or removed.

⚠ WARNING

Pulling a tube, skier or wakeboarder makes the boat handle differently and requires greater skill. Unless absolutely necessary, do not make tight, sharp turns. Keep a safe distance from docks, swimmers, other craft or objects. Be advised that serious injury can result if the tow rope becomes slack during a tight turn or when circling. The rope could become wrapped around the neck or limbs of a person.

NOTE: For the complete tower removal procedure from boat, refer to an authorized Sea-Doo Sport Boat dealer.

36) Ballast System/Switch

230 Wake Only

The ballast bags allows you to fill and empty up to 454 kg (1000 lb) of water in minutes at the touch of a button.

⚠ WARNING

The added weight of the ballast affects the handling characteristics of the boat. Do not perform high speed maneuvers when ballast bags contains water. Furthermore, it is then not recommended to operate the boat at speeds of more than 50 km/h (30 MPH).



BALLAST BAG SWITCHES

1. Port side ballast switch
2. Starboard side ballast switch

To Fill

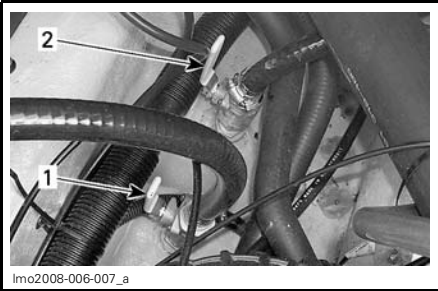
NOTE: Boat must be in water to fill ballast bags.

NOTICE Ensure to remove all items in ballast compartments before filling ballast bags.

1. Open thru-hull valve(s) (port and/or starboard) located in the engine compartment.

NOTE: Handle will be in the vertical position when valve is open.

NOTICE Failure to open valve will cause damage to the pump components.

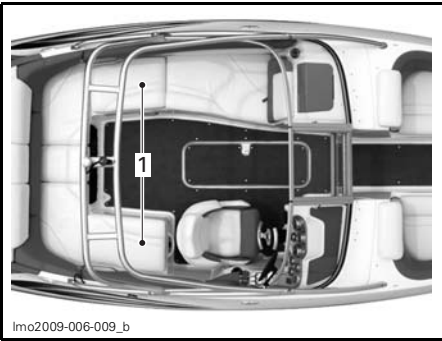


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THRU-HULL VALVES — OPEN POSITION

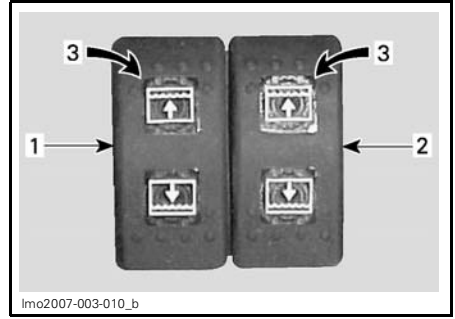
1. Starboard bag
2. Port bag

Open the side storage compartments and monitor ballast bags while filling.



lmo2009-006-009_b

1. Side storage compartments
2. Select PORT or STARBOARD ballast switch on LH side of driver's console or underneath driver's armrest (depending on the model).
3. Select FILL position on ballast switch. Bag takes approximately 5 to 7 minutes to fill.



lmo2007-003-010_b

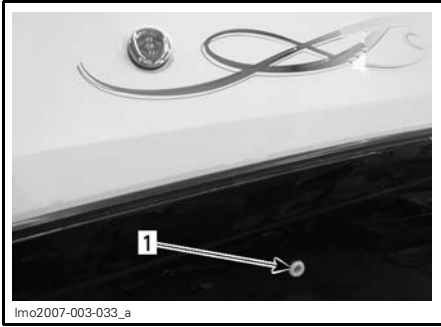
SELECT FILL POSITION

1. Port side ballast switch
2. Starboard side ballast switch
3. Select FILL position

The bag is full when water evacuates from the ballast vent fitting located overboard on the PORT or STARBOARD side of the vehicle.

NOTICE It is always a good practice to monitor ballast bag filling and stop pump before it comes out from ballast vent fitting. Stop pump when you visually see that the ballast bag is full.

NOTICE While filling, in the event of ballast system leakage, the bilge pump will start to evacuate water from bilge automatically. To avoid having both pumps working against each other for a long period of time, we recommend watching for this matter. If a leak occurs, stop the ballast pump immediately and close the thru-hull valve. Detect and repair leak before using the system again.

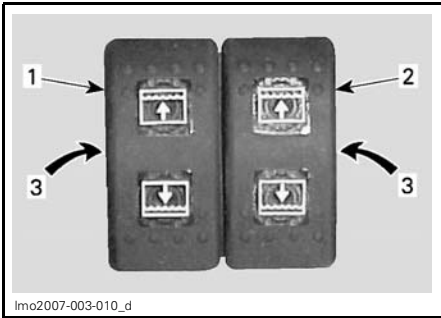


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TYPICAL

1. Ballast vent fitting

4. Select the middle position on ballast switch when the ballast bag is full or filled to the desired level.



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SELECT THE MIDDLE (OFF) POSITION

1. Port side ballast switch
2. Starboard side ballast switch
3. Select OFF position

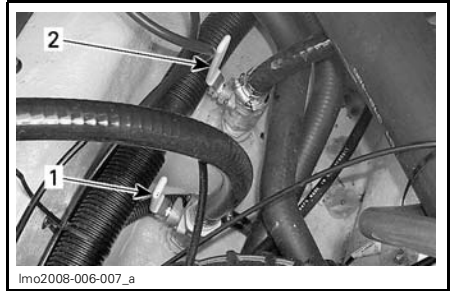
Repeat the same procedure for the other ballast bag.

NOTE: It is not necessary to close the engine compartment thru-hull valve once the system is full.

To Empty

1. Ensure thru-hull valves located in the engine compartment are in the open position.

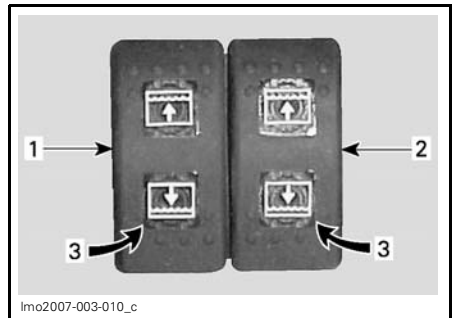
NOTE: Handles will be in the vertical position when valves are opened.



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THRU-HULL VALVES — OPEN POSITION

1. Starboard bag
2. Port bag
2. Select PORT or STARBOARD ballast switch on LH side of driver's console or underneath driver's armrest (depending on the model).
3. Select EMPTY position on ballast switch. There is a noticeable tone different and some air bubbles will be present once the bag is empty.



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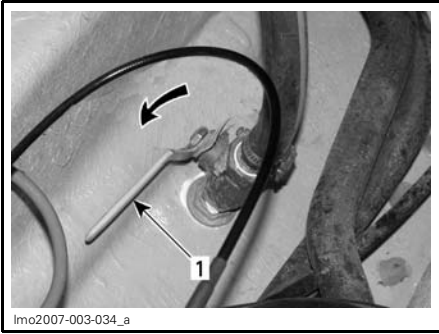
SELECT EMPTY POSITION

1. Port side ballast switch
2. Starboard side ballast switch
3. Select empty position

4. Close thru-hull valve.

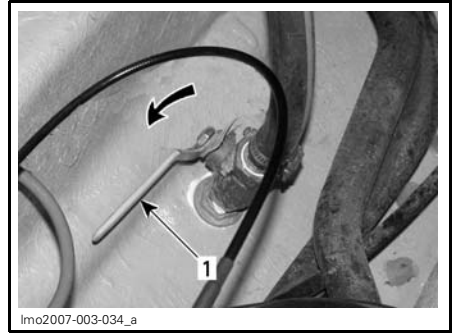
Repeat the same procedure for the other ballast bag.

NOTICE Closing of this valve is highly recommended when system is not in use. In the case of component failure, it prevents water from being taken on and possibly causing serious damage to the boat.



TYPICAL — THRU-HULL VALVE

1. Closed position



TYPICAL — THRU-HULL VALVE

1. Closed position

⚠ WARNING

Never tow a boat with water remaining in the ballast bags. The weight of ballast increases the load on the trailer, the axle, and the tires, which could lead to premature wear or failure. This also contributes to reduce the stability of your vehicle on the road by raising the center of gravity of the trailer. Always completely empty the ballast bags before trailering.

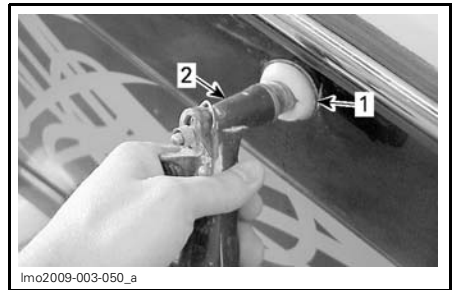
To Flush

Both ballast bags should be flushed every time the boat is used on another stretch of water.

Use the following procedure to flush the ballast system.

1. Safely secure the boat on the trailer.
2. Ensure thru-hull valves located in the engine compartment are closed.

3. Using a garden hose with a spray nozzle, fill ballast bags. Hold the nozzle firmly against the ballast vent fitting and add water until the bag is full.



1. Ballast vent fitting
2. Spray nozzle

NOTE: Each ballast bag has a vent fitting located on its respective side of the hull.

4. When the ballast bags are full, open thru-hull valves.
 5. Select EMPTY position on ballast switch.
 6. Select OFF position on ballast switch when no more water flows out from underneath of hull.
 7. Close thru-hull valve.
- Repeat the procedure if necessary.

37) Main Battery Cut-Off Switch

This switch allows a complete power cut-out of the electrical system.

When in OFF position, ALL electrical equipment and electronics will be OFF except bilge pump and radio/CD memory power. The bilge pump **will** operate automatically with the battery switch on the OFF position.

Switch must be in the ON position to allow the use of electrical components and to start the engines.

NOTICE Stop engines before switching to the OFF position.



1. Main battery cut-off switch

It is recommended to set this switch to the OFF position whenever performing maintenance in the engine compartment, on the electrical system, for transportation or during short term storage.

NOTICE When the main battery cut-off switch is turned OFF while boat is moored, the automatic bilge pump will start if water comes up in the bilge.

38) Bimini Top

If so Equipped

The bimini top is convenient for protection against inclement weather or sunshine.

⚠ WARNING

- Avoid body contact with bimini top.
- Hold down straps are under tension.
- Do not use bimini top as a support.
- Operate boat only at low speeds if bimini top is in use.
- Top can break or dislodge causing a risk of personal injury or interference with boat operation.

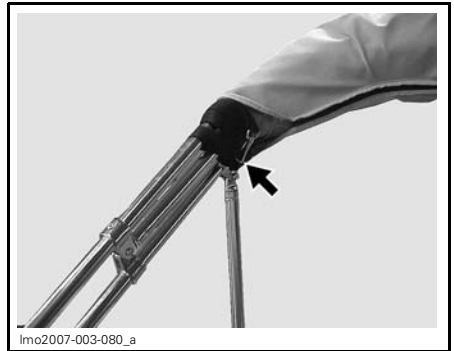
Opening Bimini Top

Unzip cover and remove. Store cover in a storage area.



UNZIP COVER

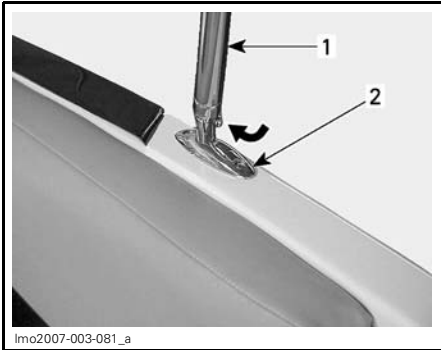
Detach straps from bimini top frame.



DETACH STRAPS

Lift bimini top to vertical position.

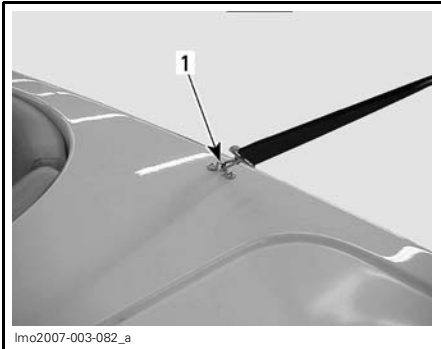
Unfold support poles from bimini top frame and secure them using pole brackets on body of boat.



PUSH AND LOCK IN PLACE

1. Support pole
2. Pole bracket

Pull canvas towards the front of the boat and fasten straps to eyelets on body of boat.



1. Hook strap to body eyelet

Adjust strap tension as needed.

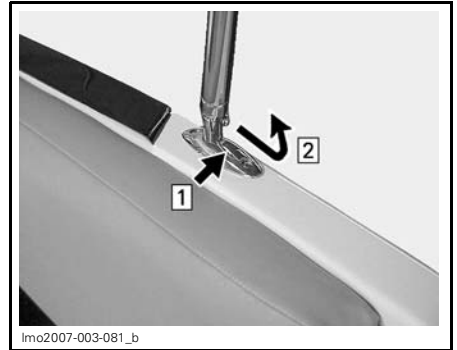
Closing Bimini Top

NOTE: If canvas of bimini top has been splashed by salt water, rinse canvas with cold fresh water. At any time when canvas is wet, let dry before installing cover and storage.

Unhook front straps and fold front portion of bimini top towards the rear of the boat.

If you want to completely lay down the bimini top on the boat, detach support poles from their brackets and fold poles towards bimini top frame.

NOTE: Additional shorter support poles are provided with the boat if a lower closed position of the bimini top is desired, simply use the appropriate poles.



- Step 1: Push on locking device
- Step 2: Slide support pole out

Gently lay down bimini top on boat.

Position the protective cover so that the zipper will be on the inner side of the bimini top and the starting end of the zipper will be on port side of boat.



Place bimini top straps inside cover and slowly zip while packing canvas inside cover.

NOTICE To avoid damages to the boat and/or bimini top, it is recommended to leave the bimini top supported with their supporting poles.

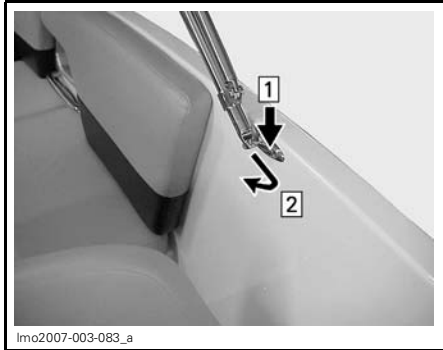
Removing Bimini Top from Boat

If it becomes necessary to remove bimini top from boat, proceed as follows:

Detach bimini top frame at pivot point from their brackets.



TYPICAL



Step 1: Push on locking device
Step 2: Slide bimini top frame out

With assistance, carefully lift bimini top and remove.

Installation is procedure in reverse, however, pay attention to bimini top orientation for proper positioning.

39) Storage Nets

Located at the rear and at the front of the boat, these storage areas provide quick, easy access for additional articles.

⚠ WARNING

Never leave any heavy or breakable objects in the storage nets.

40) Cockpit Table

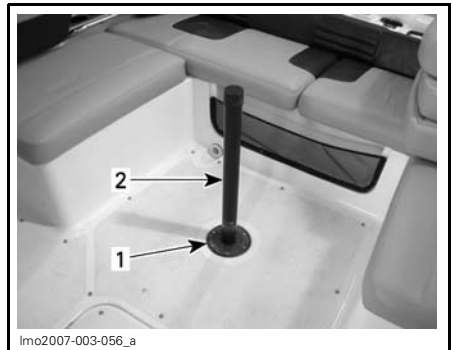
230 Challenger SE

Conveniently stored inside the rear storage compartment cover.



COCKPIT TABLE IN STORAGE POSITION

Release table post and place in floor receptacle. Twist gently to ensure proper fit.



TYPICAL

1. Floor receptacle
2. Table post

Loosen bungee straps to remove table top, and install onto table post.



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TYPICAL - COCKPIT TABLE INSTALLED

Close storage compartment cover.

Cockpit Table Storage

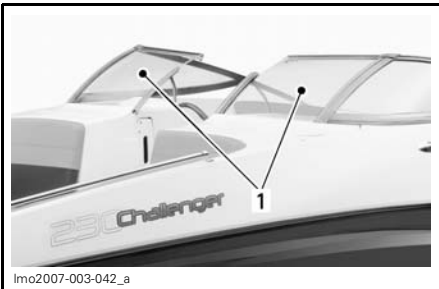
Storage of cockpit table is the reverse of installation.

⚠ WARNING

Cockpit table must be properly stored before operating boat.

41) Windshield/Switch

For your convenience, a windshield is provided to divert the air flow.



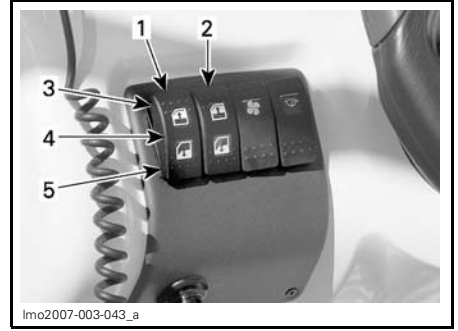
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1. Windshield

Powered Windshield

If so Equipped

Both windshields can be adjusted electrically by using the appropriate button on the driver's console.



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TYPICAL – 3-POSITION SWITCH

1. PORT side windshield
2. STARBOARD side windshield
3. Windshield UP
4. OFF position
5. Windshield DOWN

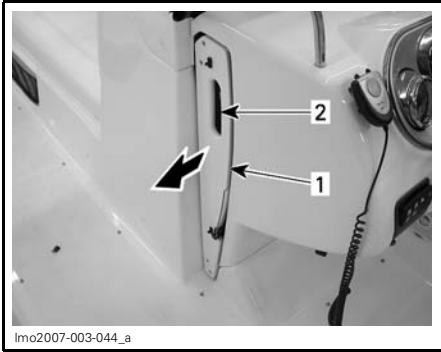
42) Walk-Thru Door/ Windshield

CAUTION:

- Use caution when operating door.
- Hand will contact vehicle structure during operation.
- Latch door in the open and closed position at all times.

For your convenience, a walk-thru door can be slide-out from the side of driver's console to divert the air flow coming from the bow area.

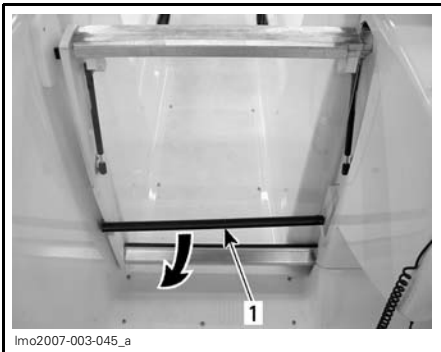
Pull on sliding walk-thru door using the recess handle to open.



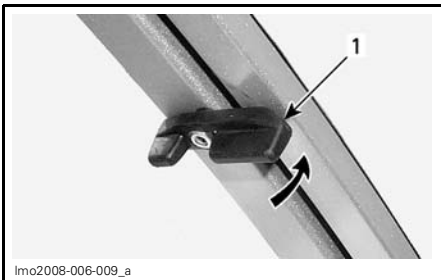
TYPICAL

1. Transom door
2. Recess handle

For more protection, when the door is set in close position, pull on the folded windshield and lock it in place using the latches on the windshield supports.



1. Windshield



TYPICAL — BOTH SIDES

1. Windshield lock

43) Depth Finder

*230 Challenger SE/
230 Wake Edition*

A depth finder is included as standard equipment on some models and is located on the dashboard.

Please refer to included *MANUFACTURER'S INSTRUCTION SHEET* for depth finder operation.

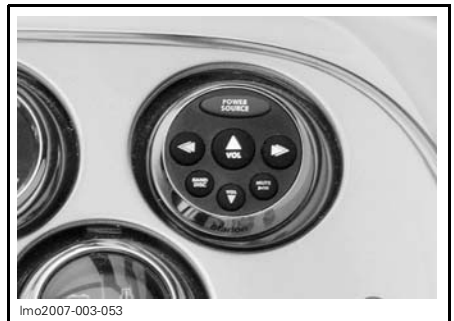


44) AM/FM Radio/CD Player Remote Control

*230 Challenger SE/
230 Wake Edition*

A remote control for the AM/FM Radio/CD Player is included as standard equipment and is located on the dashboard.

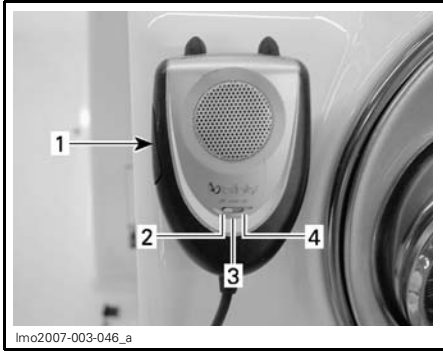
Please refer to included *MANUFACTURER'S INSTRUCTION SHEET* for remote control operation.



45) Speaker System/P.A.

Handy P.A. system that allows you to easily communicate with boarders or other recreational activities users.

The speaker system can also be used as auxiliary speakers for the AM/FM radio/CD player.

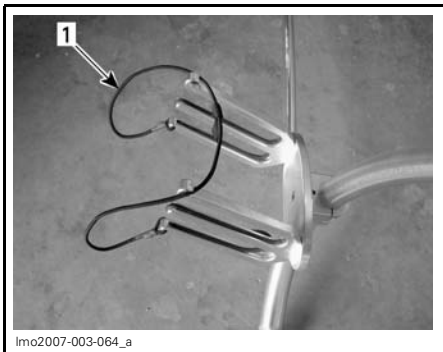


1. Push on button to communicate with activities users
2. OFF position
3. AUTO: auxiliary speakers for the AM/FM radio/CD player
4. ON: handy P.A. system only

46) Wakeboard Storage Rack

Convenient board racks on the tower allow you to have quick and easy access to your board.

Secure wakeboard to rack by using the elastic band.



- TYPICAL
1. Elastic band

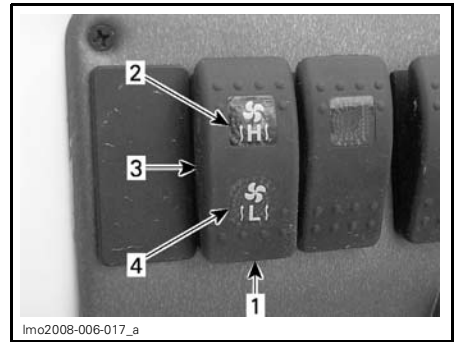
47) Heating System/ Switch

230 Wake Only

This boat is equipped with a closed-loop heating system that can be used when the engines are running to heat-up cockpit area or recreational activities users when needed.

Use the 3-position switch on the LH side of driver's console.

NOTICE Using the heating system fan for a prolonged time when the engines are not running will discharge the battery.



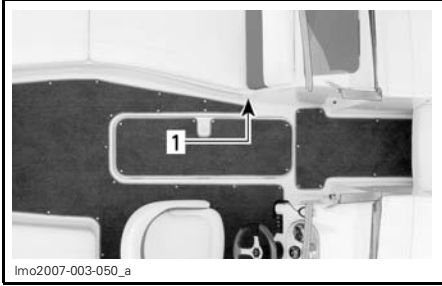
- TYPICAL
1. Heating system switch
 2. HI position
 3. OFF position
 4. LOW position



- PASSENGER'S SIDE
1. Adjustable heating duct

On the passenger's side, it is possible to stretch the heating duct for multi-purpose usage.

Gently pull on the heating duct grill to stretch.



PASSENGER'S SIDE

1. Multi-purpose heating duct



HEATING DUCT STRETCHED

OPERATING INSTRUCTIONS

⚠ WARNING

Always perform *PRE-RIDE INSPECTION* before operating the boat. Become thoroughly familiar with all controls and the function of each. Should any control or instruction be not fully understood, refer to an authorized Sea-Doo Sport Boat dealer.

Operating During Break-In

NOTICE Carefully follow the instructions in this section. Failure to do so may reduce the life and/or performance of the engines.

With Sea-Doo Sport Boats powered by Rotax engines, a break-in period of 10 hours is required for each engine before continuous operation at full throttle.

To achieve a good break-in, throttle lever should not be advanced more than 3/4 opening, however, brief acceleration and speed variations contribute to a good break-in.

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

Launching/Loading

NOTICE Before launching the boat, ensure the main battery cut-off switch is turned ON and the bilge plugs are fully screwed into place.

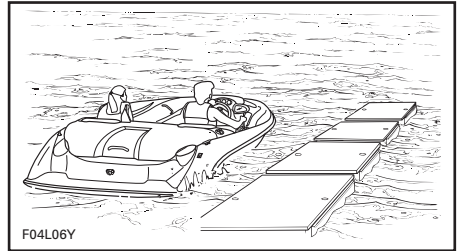
When finished loading the boat on trailer, turn the main battery cut-off switch to OFF.

Remove bilge plugs to drain bilge when boat is on trailer.

Boarding from a Dock

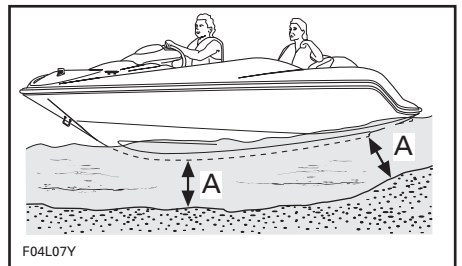
As with any boat, boarding should be done carefully and engines must not be running.

When boarding from a dock, slowly place one foot on the boat deck nearest to the dock and then move the other foot inside the boat. Push the boat away from the dock.



TYPICAL

NOTICE Although the boat requires only 30 cm (1 ft) of water to float, the engines should be started with at least 90 cm (3 ft) of water below the hull. If the depth of the water is less than 90 cm (3 ft) and the engine is running, the impeller is turning and debris can be drawn from the bottom and damage the propulsion system.



TYPICAL

A. 90 cm (3 ft)

Boarding from the Water

⚠ WARNING

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

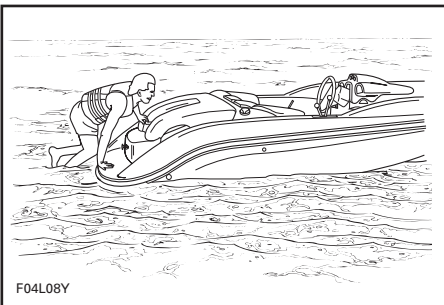
⚠ WARNING

Engines should not be running while boarding. Never use propulsion components as a supporting point to board the boat.

Swim to the rear of the boat.

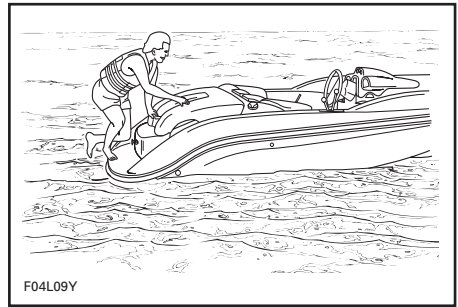
Release the retractable ladder, pulling ladder out and down into boarding position.

Climb the ladder and pull yourself upward using the swim platform grab handles.



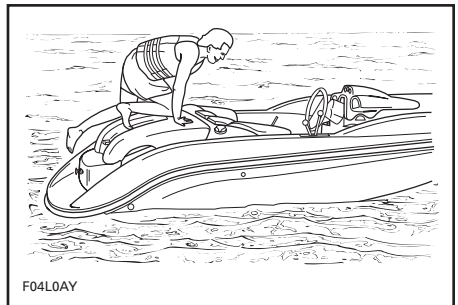
TYPICAL

When you can reach the engine cover grab handle, grip it and continue to pull yourself upward to place your knee on the swim platform.



TYPICAL

Continue to climb on engine cover to reach the deck.



TYPICAL

NOTICE Do not leave ladder hanging when operating the boat. Before operating the boat, always fasten the ladder in place using the latch.

⚠ WARNING

Do not start engines until all passengers are properly seated.

Starting

⚠ WARNING

Engine exhaust fumes contain carbon monoxide (CO) which can accumulate in and around the boat (under the bimini top, in cockpit, etc.). CO can be harmful or fatal if inhaled. Assure there is adequate ventilation whenever running engines.

Turn on bilge blower.

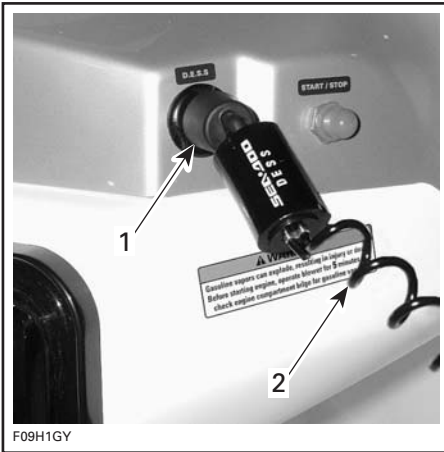
⚠ WARNING

Always activate bilge blower 5 minutes minimum before starting the engines to ventilate the bilge.

Turn off bilge blower.

This safety device automatically stops the engines if the lanyard is attached to the operator and the operator falls from the control station.

The safety lanyard clip must be securely attached to the operator's PFD, clothing, arm, or leg. Be sure to attach the lanyard clip to a place where it is free of obstructions and to something that will move with the operator if he or she leaves the helm station. If the engine shuts down because the DESS key attached to the safety lanyard was removed, the key must be reinstalled on the DESS post before the engine can be restarted.



TYPICAL

1. DESS key installed on DESS post
2. Safety lanyard attached to operator

⚠ WARNING

Always use the safety lanyard when operating your boat. Keep DESS post free from obstructions that could interfere with its operation. The proper use of the safety lanyard can prevent a runaway boat situation which otherwise could cause severe personal injury or death.

NOTE: If you hear beeper signals other than 2 short beeps, it indicates a particular condition that must be corrected. Refer to chart in the *MONITORING SYSTEM BEEPER CODES* section for the meaning of the coded signal.

Start one engine at a time. Check tachometers to monitor engines.

⚠ WARNING

Before starting, the operator and passengers should always be properly seated. Do not touch electrical parts or jet pump area when engine is running.

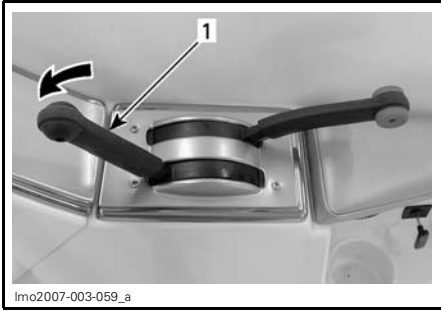
NOTICE To avoid overheating the starter motor, the cranking period should not exceed 5 - 10 seconds. A rest period of 30 seconds should be observed between cranking cycles to let the starter cool down and disengage its mechanism.

Throttle/Shifter Controller Operation

When selecting the neutral or reverse position with the shifter lever, the reverse gates move up or down to the desired position.

Forward

The shift lever should be in the forward position in order for the boat to advance.



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TYPICAL

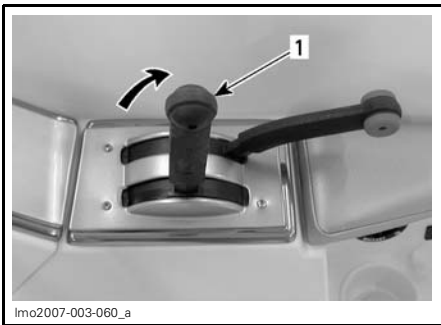
1. Shift lever in forward position

NOTICE Do not force lever, insure throttle levers are in idle position before shifting.

Neutral

To obtain neutral, pull shift lever to the upright position. Reverse gates will be in the middle position, directing half of the thrust toward the front of the boat to minimize movement.

⚠ WARNING
When the shifter lever is in neutral position, the impellers are turning.



lmo2007-003-060_a

TYPICAL

1. Shifter lever in neutral position

Reverse

To obtain reverse, pull shift lever completely to the rear. The reverse gates will be in downward position, directing all the thrust toward the front of the boat.



lmo2007-003-061_a

TYPICAL

1. Shifter lever in reverse position

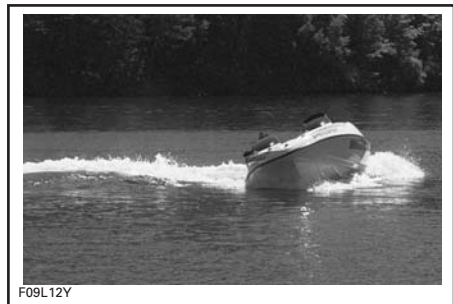
NOTE: To obtain maximum efficiency and control from the reverse, increase engine speed slightly above idle. Too much RPM will create water turbulence and reduce reverse efficiency.

The boat behaves differently when using reverse. At first outing, carefully practice this maneuver away from anything with which you might collide.

⚠ WARNING
Become fully familiar with the reverse operation during your first ride and before carrying passengers.

Steering Operation

Turning the steering pivots the jet pump nozzles which control the boat direction. Turning the steering clockwise will turn the boat to the right and inversely.



TYPICAL — RIGHT-HAND TURN

Above idle speed, the throttle must be applied to turn the boat.

WARNING

Throttle must be applied and steering turned to change the direction of the boat at speed. Steering efficiency will differ depending on the number of passengers, load and water conditions.

A jet propelled boat needs some throttle applied in order to turn. Practice in a safe area applying the throttle and turning away from an imaginary object. This is a good collision avoidance practice.

Leaving the Shore

With throttle lever at idle position, move shift lever to the desired direction.

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

WARNING

In shallow water, shells, sand, pebbles or other objects could be drawn up by the jet pump and thrown rearward.

Rough Water or Poor Visibility Operation

Avoid operation in these conditions. If you must do so, proceed with caution and prudence using minimum speed. Turn on navigation lights if necessary.

Crossing Waves

Reduce speed when crossing waves. Always be prepared to steer and balance as necessary.

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

WARNING

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

Shutting Off the Engines

To shut off the engines, completely pull back throttle lever then remove the DESS key or press the engine Start/Stop switches.

Always remove the DESS key from the DESS post.

WARNING

If engines are shut off, directional control is not available. Never leave the DESS key connected on the DESS post when boat is not in operation to avoid unauthorized use by children, theft or others.

Stopping/Docking

The boat is slowed by water drag. The stopping distance will vary depending on the boat's size, speed, water surface condition, presence and direction of wind and current.

The operator should become familiarized with the stopping distance under different conditions.

Reduce throttle speed to idle. Shift to neutral, reverse or forward as required when approaching a dock then shut off the engines just before coming alongside.

WARNING

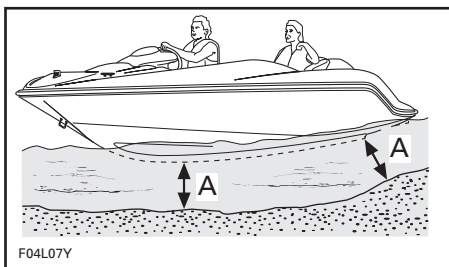
Directional control is reduced when throttle is decreased and lost when engines are off.

When close to the dock, shut off the engines.

Beaching

NOTICE It is not recommended to run the boat onto the beach.

Slowly approach the beach and shut off the engines using the DESS key when water depth is 90 cm (3 ft) under the hull, then pull the boat to the beach. Ensure that all accessories are OFF.



A. 90 cm (3 ft) of water under the hull

⚠ WARNING

In shallow water, shells, sand, pebbles or other objects could be drawn up by the jet pumps and be thrown rearward.

As necessary, the exhaust system of each engine should be flushed before restarting to remove sand or shell accumulation which may clog the water passages. Refer to *EXHAUST SYSTEM FLUSHING* in *STORAGE* section.

Post-Operation Care

⚠ WARNING

Allow engines to cool before performing any maintenance.

General Care

Once boat is on trailer, unscrew the drain plug, block the wheels and raise the bow slightly with the trailer jack to allow water to drain.

Remove any remaining water that is left in the engine compartment (bilge, engines, etc.) with clean dry rags. This is particularly important in salt water use.

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

Anticorrosion Treatment

To prevent corrosion, spray a corrosion inhibitor (salt water resistant) such as XP-S Lube (P/N 293 600 016) or equivalent over metallic components in engine compartment.

NOTE: Engine fogging should be done with XP-S Lube (P/N 293 600 016) whenever the boat is to be stored for few days or a long period.

Apply dielectric grease (P/N 293 550 004) (salt water resistant) on battery posts and cable connectors.

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

Additional Care for Foul Water or Salt Water Use

When the boat is operated in foul water and particularly in salt water, additional care must be taken to protect the boat and its components. Rinse trailer and boat's hull/bilge area **with fresh water**.

Flushing the exhaust systems **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 should be performed when the boat is not expected to be used further the same day or when the boat is stored for any extended time.

⚠ WARNING

Perform this operation in a well ventilated area.

Refer to *EXHAUST SYSTEM FLUSHING* in *STORAGE* section for procedure.

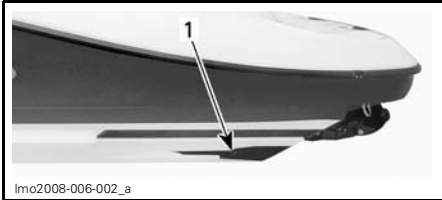
NOTICE Failure to perform proper care such as: rinsing, exhaust cooling system flushing and anti-corrosion treatment, when used in salt water, will result in damage to the boat and its components. Never leave the boat stored in direct sunlight.

In coastal areas, special care should also be taken on stainless steel or chrome parts like grab handles, mooring cleats, fuel cap and navigation lights. Rinse with fresh water. Clean with a good car chrome polish. Protect with a good car or fiberglass wax.

SPECIAL PROCEDURES

Jet Pump Water Intake and Impeller Cleaning

Water is drawn up by the impeller through this opening. The grate minimizes entry of foreign objects into the propulsion system.



lmo2008-006-002_a
TYPICAL — BOTH SIDES
1. Jet pump water intakes

⚠ WARNING

Keep away from intake grates while engines are running. Items such as long hair, loose clothing or personal flotation device straps can become entangled in moving parts resulting in severe injury or drowning.

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

1. **Cavitation:** Engine speed is high but boat moves slowly due to reduced jet thrust; jet pump components may be damaged.
2. **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 internal engine components.

The clogged area can be cleaned as follows:

In-water cleaning: Pull the DESS key from DESS post to stop engine(s). Let the boat stop by itself. Wait a while to allow weeds or other debris to escape from grate(s). It may be necessary to repeat the procedure.

In severe conditions if the above method does not work, the following can be performed:

1. With engine(s) running, put shifter lever in reverse position and vary throttle setting quickly several times.
2. Try accelerating again.

Most of the time, debris will escape from the propulsion system.

Out of water cleaning: If the system is still clogged, shut off the engine(s) by removing the DESS key.

⚠ WARNING

Always remove the DESS key from the DESS post to prevent accidental engines starting before cleaning the jet pumps area.

From underneath boat, manually clean water intakes area. If the system is still clogged, refer to an authorized Sea-Doo Sport Boat dealer for servicing.

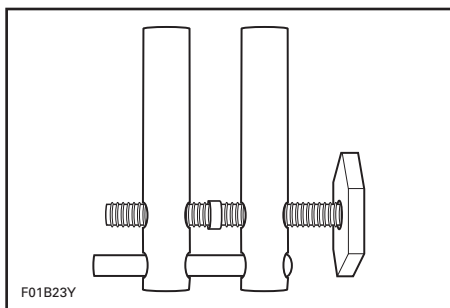
NOTICE Avoid operation in weed-ed areas. If unavoidable, vary speed. Weeds tend to entangle more at steady and slow speeds. Inspect water intake grates for damage. Refer to an authorized Sea-Doo Sport Boat dealer for repair as necessary.

Towing the Boat in Water

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

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

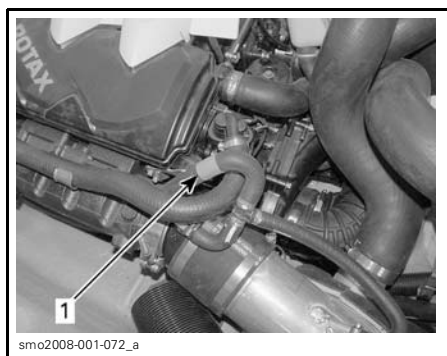
When towing your boat in water, pinch the exhaust manifold water outlet hose on each engine with a large hose pincher (P/N 529 032 500).



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

NOTICE Failure to do this may result in damage to the engines. If your Sea-Doo Sport Boat must be towed in water and you do not have hose pinchers, be sure to stay well below the maximum towing speed of 24 km/h (15 MPH).

Install the hose pinchers on the exhaust manifold water outlet hoses as shown for each engine.



TYPICAL

1. Install hose pincher here

NOTICE When finished towing the boat, hose pinchers must be removed before operation. Failure to do so will result in engine damage.

Capsized Boat

This boat is designed so that it should not turn over easily due to its long and wide dimensions. If the boat ever capsizes, remember that it will continue to float. It is usually best to remain with it so you will be more easily located by others.

⚠ WARNING

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

Submerged Boat/ Water-Flooded Engine

To limit damages to the engines, 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 engines. Water trapped in intake manifolds would flow towards the engines and may cause severe damage to the engines.

Bring the boat to be serviced by an authorized Sea-Doo Sport Boat dealer as soon as possible.

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

MAINTENANCE INFORMATION

INSPECTION SCHEDULE

Maintenance is very important for keeping your boat in safe operating condition. Proper maintenance is the owner's responsibility. Perform periodic checks and follow the maintenance schedule.

WARNING

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

The schedule should be adjusted according to operating conditions and use. Intensive use of boat will require greater frequency of inspection and maintenance.

We encourage you to have an Annual Safety Inspection of your boat.

This section includes instructions for basic maintenance procedures. If you have the necessary mechanical skills and the required tools, you can perform these procedures. If not, see your authorized Sea-Doo Sport Boats dealer.

Other important items in the maintenance schedule that are more difficult and require special tools are best performed by your authorized Sea-Doo Sport Boats dealer.

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 when undergoing disassembly/assembly, always replace with a new one.

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE D: DEALER O: OPERATOR PART/TASK	FIRST 10 HOURS										TO BE PERFORMED BY	LEGEND
	EVERY 25 HOURS											
	EVERY 50 HOURS											
	EVERY 100 HOURS OR PRESEASON											
	EVERY 200 HOURS OR 2 YEARS											
ENGINE												
Engine oil ⁽¹⁾ and filter	R				R ⁽²⁾						D	(1) Check level before each ride. (2) At storage period or after 100 hours of use whichever comes first. (3) Inspect slipping moment. (4) Every 10 hours in salt water use.
Rubber mounts	I			I							D	
Supercharger clutch (if so equipped)								I ⁽³⁾			D	
Corrosion protection	L							L ⁽⁴⁾			O	
EXHAUST SYSTEM												
Exhaust system fasteners, hoses and components condition ⁽⁵⁾	I	I			I						D	(2) At storage period or after 100 hours of use whichever comes first. (5) Also inspect for leaks (6) Daily flushing in salt water or foul water use.
Exhaust system flushing	(2) ⁽⁶⁾										O	
COOLING SYSTEM												
Hose and fasteners	I				I						D	(1) Check level before each ride.
Coolant ⁽¹⁾	I							R			D	
FUEL SYSTEM												
Throttle cables	I				I ⁽⁴⁾						D	(4) Every 10 hours in salt water use.
Throttle bodies	I				I, L ⁽⁴⁾						O/D	
Fuel lines, connections, pressure relief valve and fuel system leak test	I				I						D	
Fuel tank straps	I				I						D	
ENGINE MANAGEMENT SYSTEM												
EMS sensors	I				I						D	—
EMS fault codes	I				I						D	
AIR INTAKE SYSTEM												
Air filter					I ⁽⁷⁾						D	(7) Replace if required

INSPECTION SCHEDULE

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE D: DEALER O: OPERATOR	FIRST 10 HOURS						
	EVERY 25 HOURS						
	EVERY 50 HOURS						
	EVERY 100 HOURS OR PRESEASON						
	EVERY 200 HOURS OR 2 YEARS						
	TO BE PERFORMED BY						
PART/TASK	LEGEND						
ELECTRICAL SYSTEM							
Spark plugs	I			I	R	D	(4) Every 10 hours in salt water use. (8) Lubricate posts.
Electrical connections and fastening (ignition system, starting system, fuel injectors etc.)	I			I		D	
ECM and VCM connectors (visual inspection without disconnecting)				I ⁽⁴⁾		O	
Digitally Encoded Security System (DESS)	I			I		D	
Main battery cut-off switch	I			I		D	
Battery support	I			I		D	
Battery				I, L ⁽⁸⁾		D	
STEERING SYSTEM							
Steering cable and connections	I			I		D	—
Steering nozzle bushings	I			I		D	
PROPULSION SYSTEM							
Drive shaft				L ⁽⁴⁾ (9)		D	(4) Every 10 hours in salt water use. (9) Lubricate for corrosion protection. (10) Inspect each month (every two weeks in salt water) and change when necessary.
Carbon ring and rubber boot (drive shaft)	I		I			D	
Shift system, cable and connections	I			I		D	
Reverse gate			L ⁽⁴⁾			O	
Drive shaft/impeller splines				I, L		D	
Impeller boot	I			I		D	
Impeller shaft seal, sleeve and O-ring				I ⁽⁴⁾		D	
Impeller and wear ring	I		I			D	
Sacrificial anode			(10)			O	

A: ADJUST C: CLEAN I: INSPECT L: LUBRICATE R: REPLACE D: DEALER O: OPERATOR PART/TASK	FIRST 10 HOURS							TO BE PERFORMED BY	LEGEND
	EVERY 25 HOURS								
	EVERY 50 HOURS								
	EVERY 100 HOURS OR PRESEASON								
	EVERY 200 HOURS OR 2 YEARS								
	TO BE PERFORMED BY								
HULL/BODY									
Storage compartments covers latch(es), hinge(s), locks and cylinders ⁽⁴⁾				I, L ⁽⁴⁾				O	(2) At storage period or after 100 hours of use whichever comes first. (4) Every 10 hours in salt water use.
Windscreen and fasteners	I	I		I				O	
Deck drains/scupper valve				I				O	
Drain plug (inside bilge)	I			I				O	
Retractable windshield drive motor screw (if so equipped)				L ⁽²⁾				D	
SPEED CONTROL SYSTEM/PERFECT PASS									
Components inspection (if so equipped) ⁽¹¹⁾	I	I						D	(11) Refer to <i>PERFECT PASS INSTRUCTION MANUAL</i> .

10-HOUR INSPECTION

We suggest that after the first 10 hours of operation, the boat be checked by an authorized Sea-Doo Sport Boats dealer. The initial maintenance is very important and must not be neglected.

NOTE: The 10-hour inspection is at the expense of the boat owner.

We recommend that this inspection be signed by an authorized Sea-Doo Sport Boats dealer.

Date of 10-hour inspection

Authorized dealer signature

Dealer name

MAINTENANCE PROCEDURES

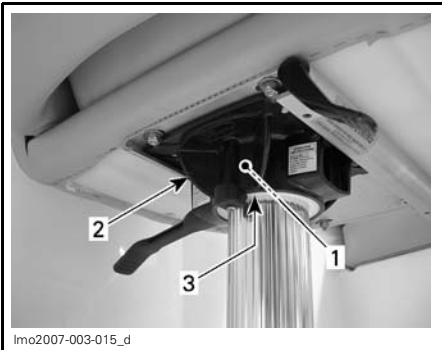
Driver/Passenger Seat Lubrication

Keep a light film of grease on slide plate surfaces where the casting slides on.



TYPICAL
1. Light film of grease

Keep a light film of grease between the casting hub and the cup.



TYPICAL
1. Light film of grease
2. Casting hub
3. Cup

Periodically check and tighten the mounting nuts between the seat slide and the seat bottom.

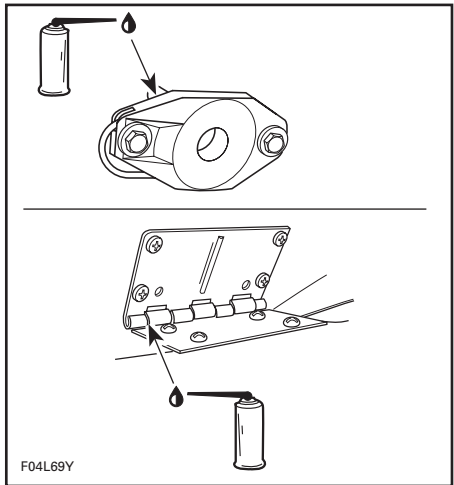


TYPICAL
1. Mounting nuts

Latches and Hinges

The application of XP-S Lube (P/N 293 600 016) lubricant will help to prevent corrosion and keep proper operation of moving mechanisms.

Latches and Hinges Lubrication



TYPICAL

Reverse Gates

Reverse Gates Lubrication

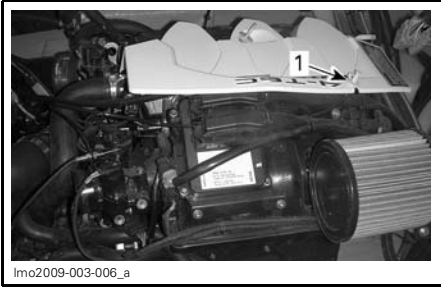
Lubricate pivot points and mechanism on both sides of each gate with XP-S Lube (P/N 293 600 016) lubricant or equivalent.

Throttle Bodies

Throttle Body Lubrication

Lubricate throttle body with XP-S Lube (P/N 293 600 016) or an equivalent.

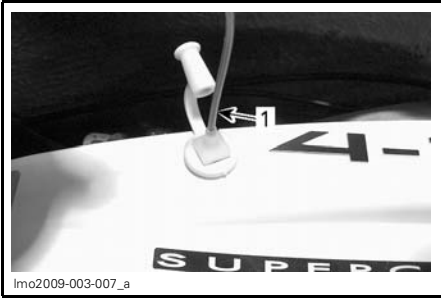
Use the lubrication fitting located on top of engine.



REMOVE CAP

1. Lubrication fitting

With the engine **not** running, make sure to spray lubricant at least 3 to 5 seconds for proper lubrication.



1. Can needle into lubrication fitting

Throttle Cables

Throttle Cable Inspection

Move the throttle lever forward and rearward once. It must operate smoothly. Refer to an authorized Sea-Doo Sport Boat dealer if adjustment is necessary.

! WARNING

Do not alter or tamper with throttle cables adjustment or routing.

Engine Oil

Recommended Engine Oil (310 HP Engines)

Use SAE 10W 40 4-stroke motor oil meeting the requirements for API service classification SM, SL or SJ. Always check the API service label on the oil container, it must contain at least one of the above standards.

XP-S 10W 40 4-stroke oil (P/N 219 700 346) sold by authorized Sea-Doo Sport Boats dealers meets those requirements.

Synthetic Oil

A synthetic oil meeting the same requirements may be used.

The XP-S 5W 40 Synthetic 4-stroke oil (P/N 293 600 039) is suitable.

Recommended Engine Oil (430 HP and 510 HP Engines)

Use XP-S 10W 40 4-stroke oil (P/N 219 700 346) or an equivalent approved by BRP.

On the 430 and 510 HP engines, the same oil lubricates both the engine and the supercharger clutch.

XP-S 10W 40 4-stroke oil (P/N 219 700 346) has been thoroughly tested to be free of any additives that could impair the functionality of the supercharger clutch.

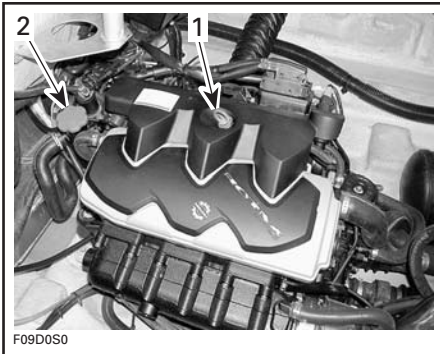
NOTE: Use of any oil that is not recommended may void BRP's limited warranty.

Synthetic Oil

NOTICE NEVER use synthetic oil in these engines. This would impair the proper operation of the supercharger clutch. Do not add any additives to the recommended oil. Beware that oils not recommended by BRP may contain additives (friction modifiers that may cause inappropriate slippage of the supercharger and eventually lead to premature wear. For this reason, oils other than XP-S 10W 40 4-stroke oil (P/N 219 700 346) or an approved equivalent are not recommended.

Engine Oil Level

NOTICE Check level frequently and refill if necessary. Do not overfill. Operating the engines with improper oil levels may severely damage engines. Wipe off any spillage.



TYPICAL
1. Dipstick
2. Oil cap

Boat must be level.

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

If Boat Out of the Water

If the boat is out of the water and on a trailer, block the wheels and raise the bow slightly with the trailer jack (if so equipped) until the bumper rail is level.

Install a garden hose to the flushing connector. Refer to *EXHAUST SYSTEM FLUSHING* in *STORAGE* and follow the procedure.

NOTICE Never run engine(s) without supplying water to the exhaust systems when boat is out of water. Failure to supply water to the exhaust systems may severely damage exhaust systems.

NOTICE Never run engine(s) longer than 5 minutes. Drive line seals has no cooling when boat is out of water.

Procedure

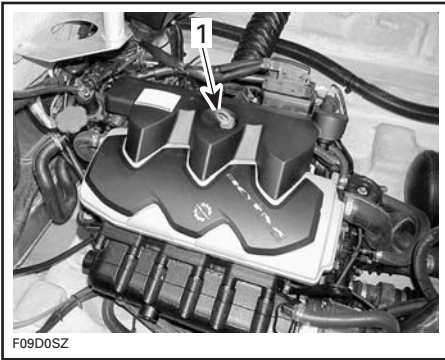
NOTE: Procedure is the same for both engines.

It is of the utmost importance to follow this procedure in order to obtain an accurate reading of the engine oil level.

⚠ WARNING

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

1. Ensure engine is at normal operating temperature.
2. Let engine **idle for 30 seconds** before stopping.
3. Stop engine.
4. **Wait at least 30 seconds.**
5. Pull dipstick out and wipe clean.

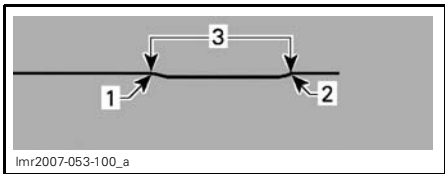


F09D0SZ

TYPICAL

1. Dipstick

6. Reinstall dipstick, push in completely.
7. Remove dipstick and read oil level. It should be between marks.



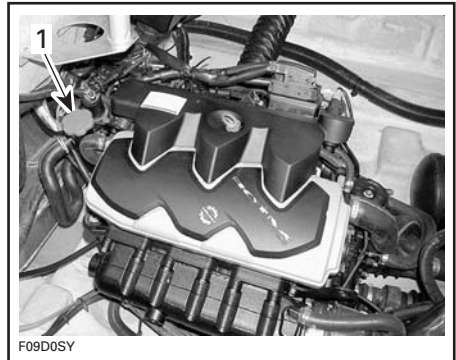
lmr2007-053-100_a

1. Full
2. Add
3. Operating range

8. If needed, add oil up to have the level between marks as required.

To add oil, unscrew oil cap. Place a funnel into the opening and add the recommended oil to the proper level.

Do not overfill.



F09D0SY

TYPICAL

1. Oil cap

NOTE: Every time oil is added in engine, the complete procedure explained above must be done. Otherwise, you will have a false oil level reading.

Properly reinstall oil cap and dipstick. Repeat procedure for the other engine.

Engine Oil Change and Oil Filter Replacement

The oil change and filter replacement should be performed by an authorized Sea-Doo Sport Boat dealer.

Engine Coolant

Recommended Coolant

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

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

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

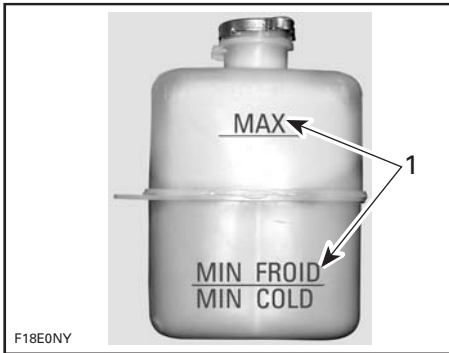
BRP sells premixed coolant with freezing protection up to - 52°C (- 62°F) (P/N 219 700 362).

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

Coolant Level

⚠ WARNING
 Check coolant level with engine(s) cold. Never add coolant in cooling system when engine(s) is hot.

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



1. Level between marks when engine is cold

NOTE: The boat is considered level when it is in water. When boat is on a trailer, block the wheels and raise the bow slightly with the trailer jack (if so equipped) until the bumper rail is level.

Add coolant to have the level between marks as required. Use a funnel to avoid spillage. **Do not overfill.**

Properly reinstall and tighten filler cap.

NOTE: A cooling system that frequently requires coolant indicates leaks or engine problems. See an authorized Sea-Doo Sport Boat dealer.

Coolant Replacement

The coolant replacement should be performed by an authorized Sea-Doo Sport Boat dealer.

Deck Drain

The purpose of this drain is to evacuate water from the deck.

Remove any obstructions from deck drain outlet.

Water drains out though the scupper valve located near the jet pump nozzle.



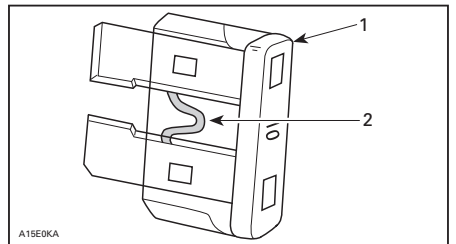
TYPICAL
 1. Scupper valve

Keep it clean to avoid clogging.

Fuses and Circuit Breakers

The electrical system is protected with fuses and circuit breakers.

To remove fuse from holder, pull fuse out. Check if filament is melted.



1. Fuse
 2. Check if melted

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

NOTE: If the entire electrical system is down, make sure the main battery cut-off switch is properly turned on, refer to *CONTROLS/INSTRUMENTS/EQUIPMENT*. If the main battery cut-off switch is ON, check the main breaker. See *MAIN BREAKER* below.

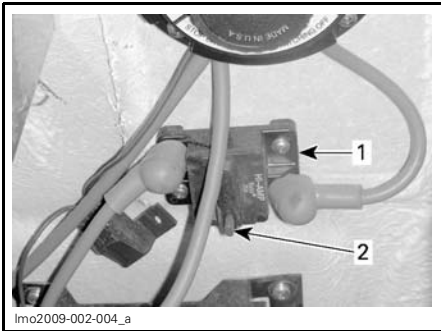
NOTICE Do not use a higher rated fuse as this can cause severe damage. If a fuse has blown, the source of malfunction should be determined and corrected before restarting. See an authorized Sea-Doo Sport Boats dealer for servicing.

Main Circuit Breaker

The main circuit breaker is located in the engine compartment.

The main circuit breaker protects the entire electrical system except the automatic bilge pump.

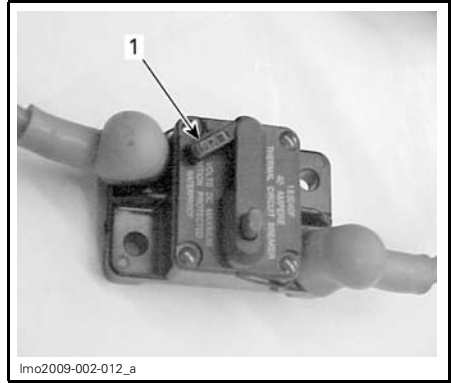
The breaker can be manually opened (switched OFF) by depressing the test button.



TYPICAL
 1. Main breaker
 2. Test button

If the breaker opens, it cuts the power supply. In that position the reset lever goes out of the breaker housing.

To reset an open breaker, push the reset lever back in.



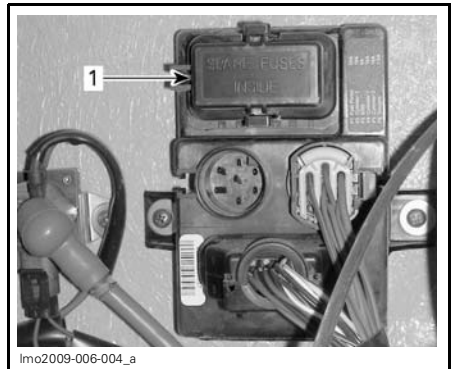
1. Reset lever in open (OFF) position

Vehicle Control Module (VCM) Fuses

Each engine has its own VCM.

Both VCM are located on the aft transom.

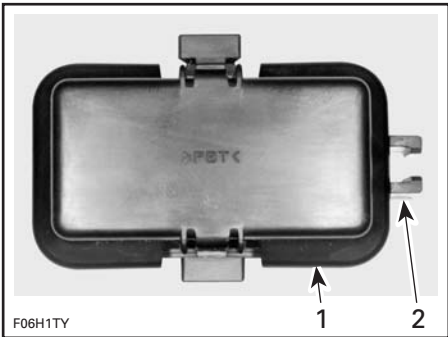
Refer to the fuse cover decal or the *SPECIFICATIONS* section for fuse identification.



VEHICLE CONTROL MODULE (VCM)
 1. Fuse cover

To remove a fuse cover, unlock the tabs and pull cover off.

Use the cover built-in fuse puller to pull fuses out.



F06H1TY

TYPICAL
1. Cover
2. Fuse puller

Circuit Breaker Panel

The circuit breaker panel is located underneath the driver console. Refer to the inscriptions on the panel for circuit breaker identification.



Imo2007-003-067_a

1. Circuit breaker panel location



Imo2009-006-005

CIRCUIT BREAKER PANEL

Fuse Holders Location

Perfect Pass
Behind Driver's console.

Blower Motor

In engine compartment, near blower motor.

Charging System

In engine compartment, near each starter solenoid.

EFB

In engine compartment, near each starter solenoid.

Bilge Pump

Behind the main battery cut-off switch, inside the storage compartment.

BilgeBlower

Bilge Blower Operation Check

Verify bilge blower for proper operation.

Make sure that the blower ducts are not obstructed.



Imo2007-003-066_a

TYPICAL
1. Blower duct

⚠ WARNING

If bilge blower does not operate properly, refer to an authorized Sea-Doo Sport Boat dealer before starting the boat.

Navigation Lights

Bow and Stern Light Bulb Replacement

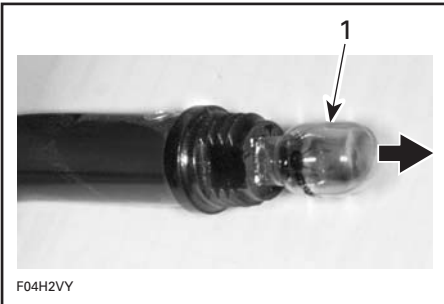
Unscrew lens counterclockwise and pull it out.



TYPICAL

1. Unscrew then pull

Pull bulb to remove it.



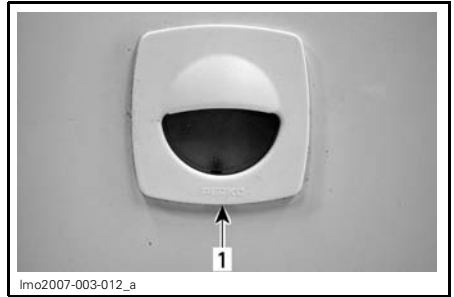
TYPICAL

1. Pull bulb out

Apply dielectric grease on new bulb contact surface.

Assembly is the reverse of removal procedure.

Deck Light Bulb Replacement



1. Gently pry here with a screwdriver



1. Pull and remove bulb

Sacrificial Anodes

Sacrificial Anodes Inspection

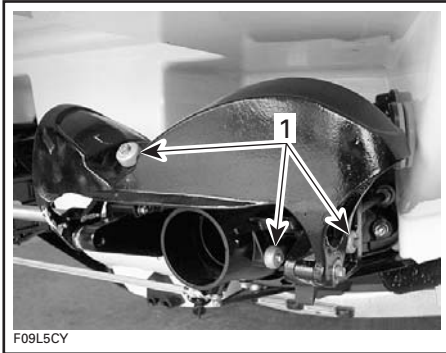
Corrosion of metal parts, especially those exposed to saltwater, is common for boats. Corrosion can be caused by stray electric currents from shore power installations, improperly grounded AC lines and circuits, and poorly insulated DC powered equipment from boats moored nearby. Corrosion is accelerated when electric current is present.

Sacrificial anodes are attached to certain parts of this boat to reduce corrosion. The anode corrodes, rather than the part to which the anode is attached.

Change each anode when 50% by weight has corroded away.

Anodes are attached at the following locations:

- Ride shoe(s)/cooling plate(s)
- Pump housing(s)
- Reverse gate support(s)
- Steering nozzle(s)
- Reverse gate(s).



F09L5CY

TYPICAL

1. Sacrificial anodes

NOTE: Inspect anodes each time boat is to be launched. Do **NOT** paint anodes or apply protective coatings.

Body and Hull

Inspect muffler, battery and fuel tank.

Cleaning

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

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

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

Stains may be removed from seats and fiberglass with Knight's Spray-Nine[†] or the equivalent.

General Washing Tips

- Remove dust from surface.
- Use a sponge versus a cloth to wash and rinse the surface.
- Change the wash and rinse solutions frequently.
- To avoid streaking when cleaning soiled areas, start with the adjacent clean area and clean into the soiled area.

Corrosion Protection

Protect engine compartment metallic parts from corrosion using XP-S Lube (P/N 293 600 016) or an equivalent.

[†] Knight's Spray Nine is a registered trademark of Knight Oil Corporation.

STORAGE

It is recommended that the boat be taken to an authorized Sea-Doo Sport Boat dealer for proper storage but the following operations can be performed by you with a minimum of tools.

NOTE: Leave drain plug out during storage period.

NOTICE Do not run the engines during the storage period.

WARNING

Because fuel and oil are flammable, have an authorized Sea-Doo Sport Boat dealer inspect the fuel and oil systems integrity as specified in the *MAINTENANCE SCHEDULE*.

Jet Pump Cleaning

Clean jet pump by spraying water in its inlet and outlet and then apply a coating of XP-S Lube (P/N 293 600 016) or equivalent.

WARNING

Always remove safety lanyard cap from post to prevent unexpected engine starting before cleaning the jet pump area. Engine must not be running for this operation.

Fuel System Protection

BRP fuel stabilizer (P/N 413 408 600) (or equivalent), can be added in fuel tank to prevent fuel deterioration and fuel system gumming. Follow stabilizer manufacturer's instructions for proper use.

NOTICE Fuel stabilizer should be added before engine lubrication to protect fuel system components against varnish deposits.

Fill up fuel tank completely. Ensure 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.

WARNING

Always stop the engines before refueling. 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. Fuel tank may be pressurized. Slowly turn cap when opening. Never use an open flame to check fuel level. When fueling, keep boat level. Do not overfill or top off the fuel tank and leave boat in the sun. As temperature increases, fuel expands and might overflow. Always wipe off any fuel spillage from the boat. Periodically verify fuel system.

Throttle Body Lubrication

Lubricate throttle body. Refer to *MAINTENANCE PROCEDURES* for details.

Engine Oil and Filter Replacement

The oil change and filter should be performed by an authorized Sea-Doo Sport Boat dealer.

Intercooler Draining

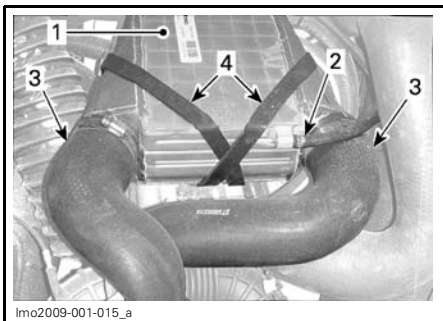
510 HP Models

Because of a possible condensation build up in the air side, the intercoolers have to be properly drained at storage to avoid serious damage to the engines and/or intercoolers.

To drain the intercoolers air side, proceed as follows for both units:

1. Remove the inlet and outlet air hoses.
2. Remove the bleed hose.

- Detach the rubber straps retaining the intercooler.



- Intercooler
- Bleeder hose
- Air hoses
- Rubber straps

- Position the intercooler with the air openings downwards for approximately 30 minutes.

Intercooler installation is the reverse of removal. Secure bleeder hose with a new clamp and torque the air hoses clamps to 4 N•m (35 lbf•in).

Exhaust System Flushing

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

NOTICE Failure to flush the system, when necessary, will severely damage engine(s) intercooler and/or exhaust system. Make sure engine(s) 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.

⚠ WARNING

When operating the engines while the boat is out of the water, the heat exchangers become very hot. Avoid any contact with heat exchangers as burns may occur.

Connect a garden hose to connector located at the rear of boat on jet pump support. **Do not open water tap yet.**

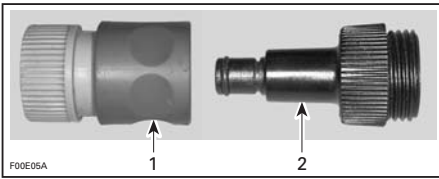
NOTE: Each engine has its own flushing connector.



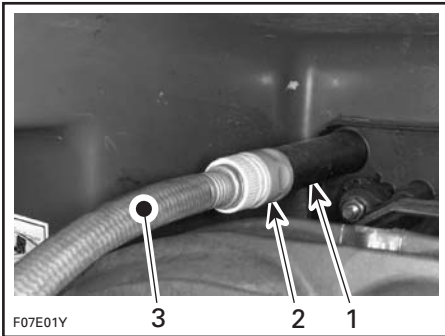
TYPICAL

- Flushing connector

NOTE: The optional flushing connector adapter (P/N 295 500 473) can be used with a quick connect adapter to ease garden hose installation.



1. Quick connect adapter
2. Flushing connector adapter



TYPICAL

1. Flushing connector
2. Quick connect adapter and flushing connector adapter (optional, not mandatory)
3. Garden hose

To flush the exhaust systems, start each engine **then** immediately open the water tap.

NOTICE Always start each engine before opening the water tap. Open water tap immediately after each engine is started to prevent overheating.

NOTICE Never run engines without supplying water to the exhaust systems when boat is out of water.

Run each engine about 20 seconds at a fast idle between 4000 - 5000 RPM.

NOTICE Never run engines longer than 5 minutes. Drive line seals have no cooling when the boat is out of water.

Ensure water flows out of jet pumps while flushing. Otherwise, refer to an authorized Sea-Doo Sport Boats dealer for servicing.

Close the water tap, then stop the engine.

NOTICE Always close the water tap before stopping the engine.

Disconnect the garden hose.

NOTICE Remove flushing connector adapter after operation (if used).

Leave all compartments open to air dry.

Engine Internal Lubrication

Connect a garden hose to cool the exhaust system as explained in *EXHAUST SYSTEM FLUSHING* above.

Bring engine(s) to normal operating temperature.

NOTICE Properly follow the instructions given in the *EXHAUST SYSTEM FLUSHING* procedure.

Close the water tap, then stop the engine.

Open the engine compartment lid.

Remove storage tray.

NOTE: Perform for each engine.

Remove dipstick.

Remove engine cover.

Reinstall dipstick.

Disconnect ignition coil connectors.

⚠ WARNING

When disconnecting coil from spark plug, always disconnect coil from main harness first. Never check for engine ignition spark from an open coil and/or spark plug in the engine compartment as spark may cause fuel vapor to ignite.

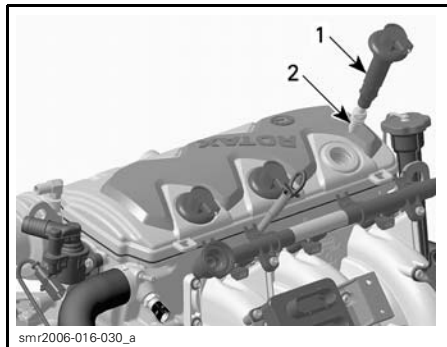
IMPORTANT: Never cut the locking ties of ignition coil connectors. This would allow mixing the wires between cylinders.

Remove ignition coils.

NOTICE Ensure there is no dirt in coil holes before removing the spark plugs. Otherwise, dirt would fall into cylinder and will damage the internal components.

Remove spark plugs.

NOTE: After loosening the spark plugs, a coil may be used to remove the spark plugs. Simply bring the coil down to spark plug and "hook" it to then extract spark plug.

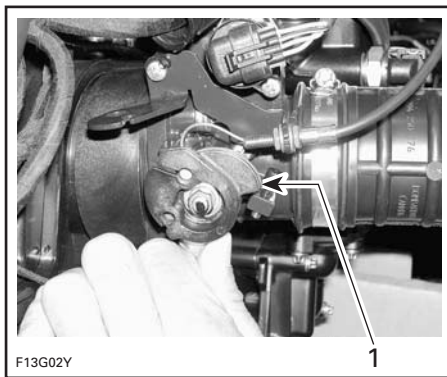


1. Ignition coil
2. Spark plug

Spray XP-S Lube (P/N 293 600 016) or equivalent, into spark plug holes.

To prevent fuel to be injected and also cut the ignition at the engine cranking, proceed as follows.

From the engine compartment, have a second person hold throttle bell crank in fully opened position.



TYPICAL

1. Fully-opened position

Crank each engine a few turns to distribute the oil on cylinder wall.

Apply Loctite 767 (antiseize lubricant) (P/N 293 800 070) on spark plug threads then reinstall them.

NOTE: After installation, ensure the seal seats properly with the engine top surface.

Reinstall ignition coils. Reconnect ignition coil connectors.

To reinstall engine cover, remove dipstick, push engine cover downward until it snaps.

Reinstall dipstick.

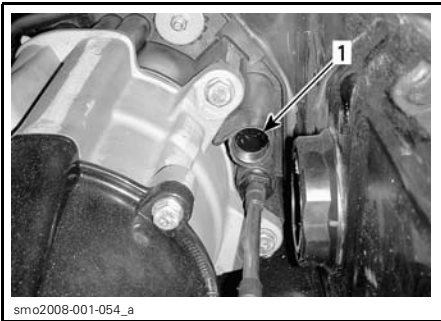
NOTE: It is recommended to fog the engine valves with XP-S Lube (P/N 293 600 016). Contact your authorized Sea-Doo Sport Boat dealer.

Exhaust System and Intercooler Protection

The exhaust system is self draining, but the intercoolers (supercharged models) and exhaust manifolds need to be properly drained to avoid damage.

NOTICE Perform the following procedure on both engines.

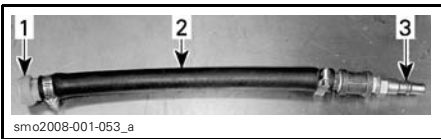
Using the flushing connectors on jet pump supports, inject pressurized air (around 689 kPa (100 PSI)) into system until there is no more water flowing from the jet pumps.



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1. Flushing connector — location may differ

To ease the procedure, a custom hose can be assembled. See the following illustration.



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TYPICAL

1. Flushing connector adapter (P/N 295 500 473)
2. Hose 12.7 mm (1/2 in)
3. Air hose male adapter

NOTICE Failure to drain the inter-cooler and exhaust manifold may cause severe damage to these components.

Battery Removal and Storage

For battery removal, cleaning and storage, contact your authorized Sea-Doo Sport Boat dealer.

Boat Cleaning/Repair

Wash the body and the trailer with soap and water solution (only use mild detergent). Rinse thoroughly with fresh water. Remove any marine organisms from the hull.

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

Stains may be removed from seats and fiberglass with Knight's Spray-Nine or the equivalent.

If repairs are needed to the body or to the hull contact your authorized Sea-Doo Sport Boat dealer. For paint touch up to mechanical parts use BRP spray paint. For minor gel-coat repairs, a Gelcote[†] repair kit is available from Gelcote International (www.gelcote.com). Replace damaged labels/decals.

Once boat is on trailer, unscrew the drain plug, block the wheels and raise the bow slightly with the trailer jack (if so equipped) to allow water to drain. Clean the bilge with hot water and detergent or with bilge cleaner. Rinse thoroughly. Leave all compartments open to air dry.

Boat Protection

Apply a non-abrasive wax to body.

The engine storage cover should be left partially opened during storage (detach the gas shocks from the cover to prevent full opening).

Remove storage tray. Place it on deck.

Using a flat screwdriver, lift tab as shown below.

[†] Gelcote is a registered trademark of Gelcote International.



TYPICAL — LIFT TAB

Detach shock end. Detach other side.

Block and leave engine cover lid open slightly.

This will avoid engine compartment condensation and possible corrosion.

Reattach shock ends to engine cover lid before operating boat.

If the boat is to be stored outside, cover it with a vented opaque tarpaulin to prevent UV (ultraviolet) rays and grime from affecting the plastic components, boat finish, as well as preventing dust accumulation.

NOTICE Never leave the boat stored in direct sunlight. UV radiation will dull finishes. The boat must never be left in water for storage. Make sure to turn off main battery cut-off switch.

For the storage period, block the wheels and raise the bow slightly with the trailer jack (if so equipped) so drainage can take place. Ensure the drain plug is unscrewed and unobstructed.

PRESEASON PREPARATION

Use the *MAINTENANCE SCHEDULE* at the beginning of *MAINTENANCE INFORMATION* section and refer to the *PRESEASON* column.

Since technical skills and special tools are required, some operations should be performed by an authorized Sea-Doo Sport Boat dealer.

WARNING

Observe all **WARNINGS** and **CAUTIONS** mentioned throughout this guide which are pertinent to the item being checked. When component conditions seem less than satisfactory, replace with genuine BRP parts or approved equivalents.

NOTE: It is highly recommended that an authorized Sea-Doo Sport Boat dealer perform the annual safety inspection and factory campaigns in addition to the preseason preparation all at the same time.

WARNING

Only perform procedure as detailed in this guide. It is recommended that the assistance of an authorized dealer be periodically obtained on other components/systems not covered in this guide. Unless otherwise specified, engine must not be running and the main battery cut-off switch must be turned OFF for all maintenance procedures.

TECHNICAL INFORMATION

BOAT IDENTIFICATION

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

Hull

The Hull Identification Number (H.I.N.) is located on the right side of the transom.

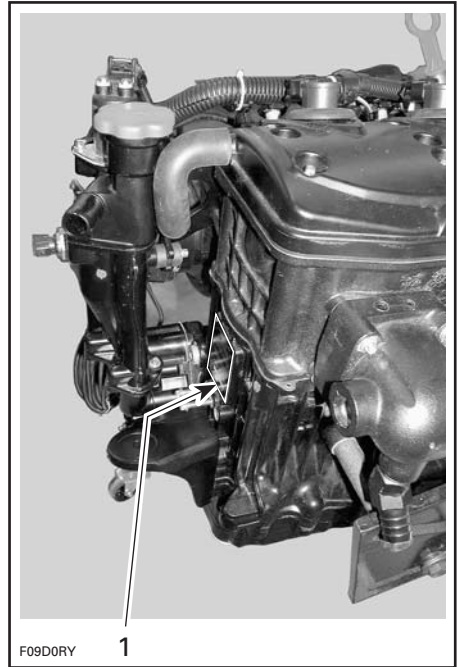


TYPICAL

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

Engines

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



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

HOMOLOGATION AND CERTIFICATION

These boats comply with the following standards:

STANDARD	TYPE OF CERTIFICATION
United States Coast Guard	Yearly inspection
Canadian Coast Guard	Self certification
Russian Maritime Register of Shipping	Certify by Russian Maritime Register of Shipping 8, Dvortsovaya Nab., 191186 St. Petersburg, Russia
Directive 89/336/CEE of the council relating to electromagnetic compatibility	Internal production control plus control carried out on the responsibility of a competent body. Competent body: UTAC Autodrome de Linas-Monlhéry, B.P. 212 91311 Monlhéry cedex, France
Directive 2003/44/EC of the European Parliament and of the council relating to recreational craft	Internal production control plus control carried out on the responsibility of a notified body. Notified body: International Marine Certification Institute Trèves centre, rue de Trèves 45 1040 Brussels, Belgium

ENGINE EMISSIONS INFORMATION

Maintenance, replacement, or repair of the emission control devices and systems may be performed by any marine SI (spark ignition) engine repair establishment or individual.

Manufacturer's Responsibility

Beginning with 1999 model year engines, manufacturers of marine engines must determine the exhaust emission levels for each engine horsepower 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 boat at the time of manufacture.

Dealer's Responsibility

When performing service on all 1999 and more recent Sea-Doo Sport Boat carrying 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 any engine in a manner that would alter the horsepower or allow emission levels to exceed predetermined factory specifications.

EPA Emission Regulations

All 1999 and more recent Sea-Doo Sport Boats manufactured by BRP are certified to the EPA as conforming to the requirements of the regulations for the control of air pollution from new boat 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 the following locations:

MAIL:

U.S. Environmental Protection Agency
Office of Transportation and Air Quality
1200 Pennsylvania Ave. NW
Mail Code 6403J
Washington D.C. 20460

INTERNET WEB SITE:

<http://www.epa.gov/otaq/>

The EC-Declaration of Conformity does not appear in this version of the Operator's Guide.

Please refer to the printed version that was delivered with your vehicle.

SPECIFICATIONS

MODELS		230 CHALLENGER
ENGINE		
Number of engines		2
Engine type		Rotax 1503 4-TEC, 4-stroke Single Over Head Camshaft (SOHC)
Exhaust system		Water cooled/water injected (opened loop). Direct flow from jet pump
Lubrication	Type	Dry sump (2 oil pumps). Replaceable oil filter. Water-cooled oil cooler
	Oil type	310 HP: 10W 40 4-stroke oil (API service classification SM, SL or SJ) 430 HP et 510 HP: XP-S 10W 40 4-stroke oil or an equivalent approved by BRP
Number of cylinders		6 (3 per engine)
Displacement		1493.8 cm ³ (91 in ³)
Induction type		Naturally-aspirated OR Supercharged intercooled
Maximum HP RPM		310 HP: 7300 430 HP and 510 HP: 8000
		± 50 RPM
COOLING		
Type		Liquid cooled. Closed circuit (see also <i>EXHAUST SYSTEM</i>)
Coolant		Ethylene-glycol and distilled water (50%/50%). Use premix coolant from BRP or a coolant specially formulated for aluminum engines
ELECTRICAL		
Magneto generator output		360 W @ 6000 RPM
Ignition system type		DI (Digital Inductive)
Ignition timing		Not adjustable
Spark plug	Make and type	NGK, DCPR8E
	Gap	0.7 - 0.8 mm (.028 to .031 in)
Starting system		Electric starter
Engine RPM limiter setting		310 HP: 7650 RPM 430 and 510 HP: 8000 RPM
Battery		⁽¹⁾ Not supplied. 12 V group 24, marine starting battery with top-mounted, round taper type battery post

MODELS		230 CHALLENGER
ELECTRICAL (cont'd)		
Circuit Breakers (panel)	CB1: Bilge pump	3 A
	CB2: Bilge Blower	10 A
	CB3: Courtesy lights	3 A
	CB4: Navigation/ anchor lights	3 A
	CB5: 12 Volt receptacles	10 A
	CB6: Horn	7 A
	CB7: Stereo	10 A
	CB8: Heater	10 A
	CB9: Port Winshield	15 A
	CB10: Starboard Winshield	15 A
Fuses (VCM)	F1: Fuel pump	10 A
	F2: Cylinder 3, ignition coil and injection	10 A
	F3: EMS	5 A
	F4: Cylinder 1, ignition coil and injection	10 A
	F5: Cylinder 2, ignition coil and injection	10 A
	F6: Gauges	2 A
Fuses (fuse holders)	Charging system	2 x 30 A
	EFB	2 x 15 A
	Blower motor	2 x 5 A
	Automatic bilge pump	3 A
	Ballast pump (Wake)	2 x 20 A
	Perfect Pass (Wake)	5 A

SPECIFICATIONS

MODELS		230 CHALLENGER
FUEL SYSTEM		
Fuel injection type		Rotax EMS (engine management system). Multipoint Fuel Injection. Single throttle body 52 mm
Fuel	OCTANE RATING (OPTIMUM PERFORMANCE)	
	Type	Premium unleaded gasoline
	Octane rating	Inside North America: (91 (RON + MON)/2) Outside North America: 95 RON
	MINIMUM OCTANE RATING	
	Type	Regular unleaded gasoline
	Octane rating	Inside North America: (87 (RON + MON)/2) Outside North America: 92 RON
PROPULSION		
Jet pump type		Axial flow single stage
Jet pump grease		Jet pump bearing grease (P/N 293 550 032) sold by BRP
Transmission		Direct drive
Pivoting angle of direction (nozzle)		20°
Minimum required water level for jet pump(s)		90 cm (3 ft) underneath the lowest rear portion of hull
DIMENSIONS		
Overall length		7.16 m (23 ft 6 in)
Beam		2.67 m (8 ft 9 in)
Draft		30.5 cm (12 in)
Deadrise		20° WAKE: 16°
DIMENSIONS (on trailer)		
Length		8.84 m (29 ft)
Width		2.59 m (8 ft 6 in)
Height	No tower	2.23 m (7 ft 4 in)
	Tower up	3.26 m (10 ft 7 in)

MODELS		230 CHALLENGER
WEIGHT AND LOADING CAPACITY		
Weight	230 Challenger	1519 kg (3350 lb)
	230 Challenger SE	1587 kg (3500 lb)
	230 Challenger SP	1587 kg (3500 lb)
	230 Wake	1649 kg (3635 lb)
Seating capacity		12
Load limit (passengers + luggage) (based on calm water operation)		12 passengers OR 907 kg (2000 lb)
Gross weight (on trailer)		2004.8 kg (4420 lb)
CAPACITIES		
Engine oil (per engine)		3 L (3.2 U.S. qt) oil change w/filter 4.5 L (4.8 U.S. qt) total
Engine cooling system		5.5 L (5.8 U.S. qt) total
Fuel tank (including reserve)		166 L (44 U.S. gal)

⁽¹⁾ Recommended: Exide R-24-130, 12 V, 25 A•h (130 minutes reserve) or R-24-160 (160 minutes) or equivalent.

TROUBLESHOOTING

TECHNICAL GUIDELINES

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

BATTERY IS REGULARLY DISCHARGED.

1. Check battery condition.

- *Have the battery charged or replaced by an authorized Sea-Doo Sport Boats dealer.*

2. Check charging system fuse.

- *Replace fuse if necessary and have charging system checked by an authorized Sea-Doo Sport Boats dealer.*

WARNING

See your authorized Sea-Doo Sport Boats dealer to have the battery charged or replaced. Do not charge or boost the battery while installed in the engine compartment. Electrolyte is poisonous and capable of causing severe burns.

NO BEEPS ARE HEARD WHEN INSTALLING THE DESS KEY ON DESS POST.

1. Main battery cut-off switch is turned OFF.

- *Verify and turn ON.*

2. Battery discharged.

- *Have the battery charged or replaced by authorized Sea-Doo Sport Boats dealer.*

ENGINE DOES NOT TURN OVER AND THE MONITORING BEEPER SOUNDS.

1. Refer to *MONITORING SYSTEM BEEPER CODES* below.

ENGINE DOES NOT TURN OVER.

1. Safety lanyard removed.

- *Install cap over DESS post.*

2. Burnt fuse.

- *Check wiring then replace fuse.*

3. Discharged battery.

- *Have the battery charged or replaced by an authorized Sea-Doo Sport Boats dealer.*

4. Battery connections, corroded or loose.

- *Contact an authorized Sea-Doo Sport Boats dealer.*

5. Water flooded engine.

- *Contact an authorized Sea-Doo Sport Boats dealer.*

ENGINE SLOWLY TURNS.

1. Discharged or weak battery.

- *Have the battery charged or replaced by an authorized Sea-Doo Sport Boats dealer.*

ENGINE TURNS OVER BUT FAILS TO START.

1. Fuel tank empty or water contaminated.

- *Refill or siphon and fill with fresh fuel.*

2. Fuel filter clogged or water contaminated.

- *Contact an authorized Sea-Doo Sport Boats dealer.*

3. Fouled/defective spark plugs.

- *Replace.*

ENGINE MISFIRES, RUNS IRREGULARLY.

1. Fouled, worn spark plugs.

- *Replace.*

2. Faulty ignition component.

- *Contact an authorized Sea-Doo Sport Boats dealer.*

3. Fuel: Level too low, stale or water contaminated.

- *Siphon and/or refill.*

4. Fuel filter, clogged or water contaminated.

- *Contact an authorized Sea-Doo Sport Boats dealer.*

ENGINE OVERHEATING OR WRONG OIL PRESSURE (MONITORING BEEPER CONTINUOUSLY SOUNDS).

NOTICE If beeper continuously sounds, top engine as soon as possible.

1. Check oil and coolant levels.

- *Refer to MAINTENANCE PROCEDURES. Refill if necessary.*

2. Clogged jet pump water intake.

- *Perform the JET PUMP WATER INTAKE AND IMPELLER CLEANING PROCEDURE in SPECIAL PROCEDURES.*

3. Incorrect type of fuel or oil.

- *Siphon and refill.*

4. Clogged exhaust system.

- *Flush exhaust system with garden hose. Perform the EXHAUST SYSTEM FLUSHING in STORAGE section.*

NOTICE If these actions do not correct the problem, discontinue use and contact an authorized Sea-Doo Sport Boats dealer.

ENGINE LACKS ACCELERATION OR POWER.

1. Weak spark/incorrect fuel mixture.

- *Refer to ENGINE MISFIRES above.*

ENGINE LACKS ACCELERATION OR POWER. (cont'd)

2. **Water in fuel.**
 - *Siphon and replace.*
3. **Overheated engine.**
 - *See ENGINE OVERHEATING above.*

BOAT CANNOT REACH TOP SPEED.

1. **Jet pump water intake clogged.**
 - *Perform the JET PUMP WATER INTAKE AND IMPELLER CLEANING PROCEDURE in SPECIAL PROCEDURES.*
2. **Damaged impeller.**
 - *Contact an authorized Sea-Doo Sport Boats dealer.*

ABNORMAL NOISE FROM PROPULSION SYSTEM.

1. **Weeds or debris jammed around impeller.**
 - *Perform the JET PUMP WATER INTAKE AND IMPELLER CLEANING PROCEDURE in SPECIAL PROCEDURES.*
2. **Damaged impeller shaft or drive shaft.**
 - *Contact an authorized Sea-Doo Sport Boats dealer.*

MONITORING SYSTEM BEEPER CODES

BEEPER CODE	DESCRIPTION
2 short Beeps while installing DESS key on DESS post	Normal condition of DESS. Right key installed correctly.
1 long Beep while installing DESS key on DESS post or when pressing start/stop switch	Shifter lever not in Neutral position. Move shifter to Neutral.
	Unable to read key (wrong installation or dirty key). Remove DESS key, make sure it's clean and reinstall.
	Invalid key or DESS fault. Make sure to use the proper key for the vehicle. If it does not work, Contact an authorized Sea-Doo Sport Boats dealer.
4 Short Beeps while pressing start/stop switch with DESS key installed	Shifter is not in Neutral. Move shifter to Neutral.
1 Short Beep while moving shifter to neutral	Confirms that shifter is now in Neutral.
4 Short Beeps at Different Interval	DESS key has been left on its post without the engine running. Remove DESS key to prevent battery discharge.
Continuous Beep	High engine coolant temperature. Refer to <i>ENGINE OVERHEATING</i> in <i>TECHNICAL GUIDELINES</i> .
	High exhaust temperature. Refer to <i>ENGINE OVERHEATING</i> in <i>TECHNICAL GUIDELINES</i> .
	Low or high engine oil pressure. Check oil level as soon as possible. If level good, discontinue use and contact an authorized Sea-Doo Sport Boats dealer.

WARRANTY

BRP LIMITED WARRANTY FOR MODEL YEAR 2009 SEA-DOO® SPORT BOATS SOLD IN THE UNITED STATES AND CANADA

1) SCOPE

BRP US Inc.* ("BRP") warrants its new and unused Model Year 2009 Sea-Doo® sport boats ("sport boat") sold by authorized BRP dealers (as hereinafter defined) in the fifty United States and Canada ("dealer") from defects in material and workmanship for the period and under the conditions described below. This limited warranty will become null and void if: (1) the sport boat was used for racing or any other competitive activity, at any point, even by a previous owner; or (2) the sport boat 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.

All genuine BRP parts and accessories, installed by an authorized BRP dealer at the time of delivery of the 2009 Sea-Doo® sport boat, carry the same warranty as that of the sport boat.

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 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, misuse, abnormal use, neglect, racing, improper operation or operation of the sport boat in a manner inconsistent with the recommended operation described in the Operator's Guide;
- Damage resulting from external damage, submersion, water or foreign object ingestion, accident, fire, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for the sport boat (see Operator's Guide);
- Damage from rust, corrosion or exposure to the elements;
- Damage from cooling system or jet pump blockage by foreign material;
- 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; and
- Damage to gel coat finish including but not limited to cosmetic gel coat finish defects, blisters, starring, crazing; and fiberglass delaminating caused by blisters, crazing, snyder or hairline cracks or exposure to the elements.

4) WARRANTY COVERAGE DURATION

This limited warranty will be in effect from the date of delivery to the first retail consumer or the date the sport boat is first put into use, whichever occurs first and for a period of:

- TWELVE (12) CONSECUTIVE MONTHS for private, recreational use, except that the deck and hull fiberglass structure are covered for SIXTY (60) CONSECUTIVE MONTHS;
- FOUR (4) CONSECUTIVE MONTHS for commercial use, except that the deck and hull fiberglass structure is covered for TWELVE (12) CONSECUTIVE MONTHS. A sport boat 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 sport boat is also used commercially when, at any point during the warranty period, it has commercial tags or is licensed for commercial use.

The emission-related components included in the chart below, that are installed on EPA certified Sea-Doo® sport boats (see list below) registered in the USA are covered for TWENTY-FOUR (24) CONSECUTIVE MONTHS OR 200 HOURS OF ENGINE USE, whichever occurs first. If the 200 hours of engine use are reached during the regular warranty coverage period, the emission-related components are still covered by BRP's standard warranty until the end of regular coverage period.

The 2009 Sea-Doo® sport boats 4-TEC® engines are EPA certified.

Emission-related components:

Throttle Position Sensor (TPS)
Air Temperature Sensor (ATS)
Air Pressure Sensor (APS)

For sport boats produced by BRP for sale in the states 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.

The repair or replacement of parts or the performance of service to a sport boat under this warranty does not extend the life of this limited warranty beyond its original expiration date.

5) CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only if each of the following conditions has been fulfilled:

- The 2009 Sea-Doo® sport boat must be purchased as new and unused by its first owner from a BRP dealer authorized to distribute Sea-Doo® sport boats products in the country in which the sale occurred (“BRP dealer”);
- The BRP specified pre-delivery inspection process must be completed and documented;
- The product must have undergone proper registration by an authorized BRP dealer;
- The 2009 Sea-Doo® sport boat must be purchased in the country 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 the preceding conditions have 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 sport boat upon the appearance of an anomaly. The customer must notify a servicing BRP 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 BRP 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.

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 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 sport boat 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) SUPPLIER WARRANTIES

Jensen+ audio components installed as original equipment on sport boats are warranted separately by ASA Electronics†. If such an audio component is installed on your Sea-Doo® sport boat, please contact your authorized BRP dealer for warranty coverage information and assistance.

If you cannot resolve the issue through your authorized BRP dealer, you can find all the contact information for ASA Electronics on their company website: www.asaelectronics.com.

9) 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 that BRP is notified of such transfer of ownership in the following way:

1. The former owner contacts BRP (at the phone number provided below) or an authorized BRP dealer and gives the coordinates of the new owner; or
2. BRP or an authorized BRP dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the coordinates of the new owner.

10) 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 dealership level. We recommend discussing the issue with the authorized BRP dealer's service manager or owner.

If the issue has not yet been resolved, please submit your complaint in writing or call the appropriate number below:

In Canada

**BOMBARDIER RECREATIONAL
PRODUCTS INC.**
SEA-DOO
CUSTOMER ASSISTANCE CENTER
75 J.A. BOMBARDIER STREET
SHERBROOKE QC J1L 1W3
Tel.: 819 566-3366

In USA

BRP US INC.
SEA-DOO
CUSTOMER ASSISTANCE CENTER
7575 BOMBARDIER COURT
WAUSAU WI 54401
Tel.: 715 848-4957

* In Canada, products are distributed and serviced by Bombardier Recreational Products Inc.

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+ is the trademark of its owner.

† is the trademark of its owner.

CALIFORNIA AND NEW YORK EMISSION CONTROL WARRANTY STATEMENT FOR MODEL-YEAR 2009 SEA-DOO® SPORT BOATS WITH 4-TEC® ENGINES OR 4-TEC® IC ENGINES

For California, your 2009 Sea-Doo® sport boat ("sport boat") 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 sport boat, describes the meaning of the star rating system.

The Star Label Means Cleaner Marine Engines

The Symbol for Cleaner Marine Engines:



F18L3CQ

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 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 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 and BRP US Inc. ("BRP") are pleased to explain the emission control system warranty on your Model Year 2009 Sea-Doo® Sport boat. In California, new sport boat 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 sport boat engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your sport boat 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 sport boat 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 2009 Sea-Doo® sport boats certified and produced by BRP for sale in California, that are originally sold in California to a California resident or subsequently warranty registered to a California resident. The BRP limited warranty conditions for Sea-Doo® sport boats are still applicable to these models with the necessary modifications. Select emission control parts of your 2009 Sea-Doo® sport boat 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 sport boat 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 Model Year 2009 Sea-Doo® sport boat equipped with 4-TEC® engines:

Digital Linear Actuator (low idle control)	All Fuel System Components
Throttle Position Sensor	Spark Plugs
Intake Manifold Air Pressure Sensor	Ignition Coils
Intake Manifold Air Temperature Sensor	Piston and Rings
Engine Temperature Sensor	Intake and Exhaust Valve Gear/Train
Knock Sensor	Valves, Valve Guides and Valve Guide Sealing
Emission Control Unit	Crankcase Ventilation Valve
Injectors	Wire Harness and Connectors
Fuel Pressure Regulator	Emission Related Seals, Gaskets and Hoses
Intake Manifold	Exhaust Manifold
Intercooler	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 sport boat. All emission warranty parts are warranted by BRP for the entire warranty period of the sport boat, 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 sport boat. 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 sport boat.

Owner's Warranty Responsibilities

As the owner of a 2009 Sea-Doo® sport boat, 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 your sport boat 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® sport boat, 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 1 715 848-4957.

BRP INTERNATIONAL LIMITED WARRANTY FOR MODEL YEAR 2009 SEA-DOO® SPORT BOATS

1) SCOPE

BRP US Inc. ("BRP")* warrants its new and unused Model Year 2009 Sea-Doo® sport boats ("Sport Boat") sold by authorized BRP Distributors/Dealers ("Distributor/Dealer") outside of the fifty United States, Canada and states members of the European Economic Area (which is comprised of the states member of the European Union plus Norway, Iceland and Liechtenstein), will be free from defects in material and workmanship for the period and under the conditions below. This limited warranty will become null and void if: (1) the sport boat was used for racing or any other competitive activity, at any point, even by a previous owner; or (2) the sport boat 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.

All genuine BRP parts and accessories, installed by an authorized BRP dealer (as hereinafter defined) at the time of delivery of the 2009 Sea-Doo® Sport Boat, carry the same warranty as that of the Sport Boat.

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 WARRANTIES. 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 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 any circumstances:

- Replacement of parts due to normal wear and tear;
- Routine maintenance parts and services, including but not limited to adjustments, oil, lubricant and coolant changes, spark plug replacement, water pumps and the like;
- Damage caused by improper or lack of maintenance or storage, or failure to follow the procedures and recommendations in the Operator's Guide;

- Damage resulting from removal of parts, improper repairs, service, maintenance, or modification, or use of parts or accessories not manufactured or approved by BRP, which in its reasonable judgment, are either incompatible with Sport Boats or adversely affect its operation, performance, or durability, or resulting from repairs done by a person that is not an authorized BRP Distributor/Dealer;
- Damage caused by abuse, misuse, abnormal use, neglect, racing, improper operation or operation of the Sport Boat in a manner inconsistent with the recommended operation described in the Operator's Guide;
- Damages resulting from external damage, submersion, water or foreign object ingestion, accident, fire, theft, vandalism or any act of God;
- Operation with fuel, oils or lubricants that are not suitable for the Sport Boat (see Operator's Guide);
- Damage from rust, corrosion or exposure to the elements;
- Damage from cooling system or jet pump blockage by foreign material;
- 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; and
- Damage to gel coat finish including but not limited to cosmetic gel coat finish defects, blisters, starring, crazing; and fiberglass delaminating caused by blisters, crazing, spider or hairline cracks or exposure to the elements.

4) WARRANTY COVERAGE DURATION

This limited warranty will be in effect from the date of delivery to the first retail consumer or the date the Sport Boat is first put to use, whichever occurs first, for a period of:

- TWELVE (12) CONSECUTIVE MONTHS for private, recreational use, except for the deck and hull fiberglass structure are covered for SIXTY (60) CONSECUTIVE MONTHS;
- FOUR (4) CONSECUTIVE MONTHS for commercial use, except that the deck and hull fiberglass structure is covered for TWELVE (12) CONSECUTIVE MONTHS.

A Sport Boat 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 Sport Boat 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 to a Sport Boat under this warranty does not extend the life of this limited warranty beyond its original expiration date.

5) CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only if each of the following conditions has been fulfilled:

- The 2009 Sea-Doo® sport boats must be purchased as new and unused by its first owner from a BRP Distributor/Dealer authorized to distribute SEA-DOO® SPORT BOAT products in the country in which the sale occurred;
- The BRP specified pre-delivery inspection process must be completed and documented;

- The product must have undergone proper registration by an authorized BRP Distributor/Dealer;
- The 2009 Sea-Doo® sport boats must be 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 the preceding conditions have 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.

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.

6) WHAT TO DO TO OBTAIN WARRANTY COVERAGE

The customer must notify a servicing BRP 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 BRP 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.

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 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 sport boat 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 warranty shall also be transferred and be valid for the remaining coverage period provided BRP or an authorized BRP 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 limited warranty, BRP suggests that you try to resolve the issue at the dealership level.

If further assistance is required, the distributor's service department should be contacted in order to resolve the matter.

If the matter still remains unresolved then contact BRP by writing to us at the address listed below.

For countries within Europe, Middle East, Africa, Russia & CIS, please contact our European office

BRP EUROPE N.V.

Customer Assistance Center
Skaldenstraat 125
9042 Gent
Belgique
Tel.: + 32-9-218-26-00

For Scandinavian countries, please contact our Finland office:

BRP FINLAND OY

Service Department
Ahjotie 30
Fin-96320 Rovaniemi
Finland
Tel.: +358163208111

For all other countries, please contact your local distributor or our North America office

Bombardier Recreational Products Inc.

Customer Assistance Center
75 J.A. Bombardier Street
Sherbrooke, QC, J1L 1W3
Tel.: 1 819 566-3366

You will find your distributor's coordinates on www.brp.com.

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BRP LIMITED WARRANTY FOR THE EUROPEAN ECONOMIC AREA: MODEL YEAR 2009 SEA-DOO® SPORT BOATS

1) SCOPE OF THE LIMITED WARRANTY

BRP US Inc. ("BRP")* warrants its new and unused model-year 2009 Sea-Doo® sport boats sold by authorized BRP distributors/dealers ("Distributors/Dealers") in member states of the European Economic Area ("EEA") (which is comprised of the states member of the European Union plus Norway, Iceland and Liechtenstein) 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 sport boat was used for racing or any other competitive activity, at any point, even by a previous owner; or (2) the sport boat 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.

All genuine SEA-DOO® SPORT BOAT parts and accessories, installed by an authorized BRP Distributors/Dealers at the time of delivery of the 2009 Sea-Doo® sport boats, carry the same warranty as that of the Sport boats.

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 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.

Neither the distributor, any BRP 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 any circumstances:

- Replacement of parts due to normal wear and tear;
- Routine maintenance parts and services, including but not limited to adjustments, oil, lubricant and coolant changes, spark plug replacement, water pumps and the like;
- Damage caused by improper or lack of maintenance or storage, or failure to follow the procedures and recommendations in the Operator's Guide;

- Damage resulting from removal of parts, improper repairs, service, maintenance, or modification, or use of parts or accessories not manufactured or approved by BRP, which in its reasonable judgment, are either incompatible with Sport Boats or adversely affect its operation, performance, or durability, or resulting from repairs done by a person that is not an authorized BRP Distributor/Dealer;
- Damage caused by abuse, misuse, abnormal use, neglect, racing, improper operation or operation of the Sport Boat in a manner inconsistent with the recommended operation described in the Operator's Guide;
- Damages resulting from external damage, submersion, water or foreign object ingestion, accident, fire, theft, vandalism or any act of God;
- Operation with fuel, oils or lubricants that are not suitable for the Sport Boat (see Operator's Guide);
- Damage from rust, corrosion or exposure to the elements;
- Damage from cooling system or jet pump blockage by foreign material;
- 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; and
- Damage to gel coat finish including but not limited to cosmetic gel coat finish defects, blisters, starring, crazing; and fiberglass delaminating caused by blisters, crazing, spyder or hairline cracks or exposure to the elements.

4) WARRANTY COVERAGE PERIOD

This warranty will be in effect from the date of delivery to the first retail consumer or the date the product is first put into use, whichever occurs first and for a period of:

TWENTY-FOUR (24) CONSECUTIVE MONTHS for private use owners and FOUR (4) CONSECUTIVE MONTHS for commercial use owners.

A Sport Boat 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 Sport Boat 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 your country.

5) CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only if each of the following conditions has been fulfilled:

- The 2009 Sea-Doo® sport boats must be purchased as new and unused by its first owner from a BRP Distributor/Dealer authorized to distribute SEA-DOO® SPORT BOAT products in the country in which the sale occurred;
- The BRP specified pre-delivery inspection process must be completed and documented;
- The product must have undergone proper registration by an authorized BRP Distributor/Dealer;

- The 2009 Sea-Doo® sport boats must be purchased within the EEA by an EEA resident.
- 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 the preceding conditions have 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 notify a servicing BRP 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 BRP 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 your country.

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 sport boat parts without charge for parts and labor, at any authorized BRP 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 sport boat 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 warranty shall also be transferred and be valid for the remaining coverage period provided BRP or an authorized BRP 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 limited warranty, BRP suggests that you try to resolve the issue at the dealership level. We recommend discussing the issue with the authorized Distributor/Dealer's service manager or owner.

- If further assistance is required, the distributor's service department should be contacted in order to resolve the matter.
- If the matter still remains unresolved then contact BRP at the address listed below.

For countries within Europe, Middle East, Africa, Russia & CIS, please contact our European office

BRP EUROPE N.V.
Customer Assistance Center
SKALDENSTRAAT 125
9042 GENT
Belgium
Tel.: +32-9-218-26-00

For Scandinavian countries, please contact our Finland office:

BRP FINLAND OY
Service Department
Ahjotie 30
Fin-96320 Rovaniemi
Finland
Tel.: +358163208111

For all other countries, please contact your local distributor or our North America office:

Bombardier Recreational Products Inc.
Customer Assistance Center
75 J.A. Bombardier Street
Sherbrooke, QC, J1L 1W3
Tel.: 1 819 566-3366

You will find your distributor's coordinates on www.brp.com.

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PRIVACY OBLIGATION/DISCLAIMER

We wish to inform you that your coordinates will be used for safety and warranty purposes. Sometimes, we also use the coordinates of our clients to inform them about our products and to present them offers. Should you prefer not to receive information on our products, services and offers, please let us know by writing to the address below.

Also note that, from time to time, carefully selected and trustworthy organizations may be permitted to use the coordinates of our clients to promote quality products and services. If you prefer not to have your name and address released, please let us know by writing to the address below:

In Canada

BOMBARDIER RECREATIONAL PRODUCTS INC.

Warranty Department
75, J.-A. Bombardier Street
Sherbrooke, Québec J1L 1W3
Fax Number: 819 566-3590

In USA

BRP US INC.

Warranty Department
7575 Bombardier Court
Wausau WI 54401
Tel.: 715 848-4957

Other countries in the world

BRP EUROPEAN DISTRIBUTION

Warranty Department
Chemin de Messidor 5-7
1006 Lausanne Switzerland
Fax Number: + 41213187801

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:

- Mailing one of the following card below;
- **North America only:** calling at 715 848-4957 (USA) or 819 566-3366 (Canada);
- Contacting an authorized BRP distributor/dealer.

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.

In North America


BOMBARDIER RECREATIONAL PRODUCTS INC.

Warranty Department
75, J.-A. Bombardier Street
Sherbrooke, Québec J1L 1W3
Canada

Other countries in the world

BRP EUROPEAN DISTRIBUTION

Warranty Department
Chemin de Messidor 5-7
1006 Lausanne
Switzerland

CHANGE OF ADDRESS <input type="checkbox"/>	CHANGE OF OWNERSHIP <input type="checkbox"/>																	
VEHICLE IDENTIFICATION NUMBER																		
Model Number	Vehicle Identification Number (V.I.N.)																	
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V00A2F

BOAT MODEL No. _____

HULL IDENTIFICATION NUMBER (H.I.N.) _____

ROTAX ENGINE IDENTIFICATION NUMBER (E.I.N.) _____

Owner: _____
NAME

No. STREET APT

CITY STATE/PROVINCE ZIP/POSTAL CODE

Purchase Date _____
YEAR MONTH DAY

Warranty Expiry Date _____
YEAR MONTH DAY

To be completed by the dealer at the time of the sale.

DEALER IMPRINT AREA

F00A35L

Please verify with your selling dealer to ensure your SEA-DOO sport boat has been registered with BRP.

204 630 385

CA

OPERATOR'S GUIDE, Z30 CHALLENGER SERIES/ Z30 WAKE / ENGLISH
GUIDE DU CONDUCTEUR, SÉRIE Z30 CHALLENGER/ Z30 WAKE / ANGLAIS

FAIT AU / MADE IN CANADA

U/M:P.C.