



**2017
Owner
Manual** | **SR
SA
SG
SE**

SUPRA

SR



SA



SG



SE



SUPRA

Boat Information

Hull Identification Number: _____

Date of Purchase: _____

Dealership: _____

Dealer's Phone Number: _____

Registration Number: _____

Engine Serial Number: _____

Trailer Serial Number: _____



SKIER'S CHOICE, INC.

1717 Henry G. Lane Street
Maryville, Tennessee 37801

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AutoWake™: U.S. Patent No. 8,798,825 and other patents pending. See www.skierschoice.com/patents

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Introduction

Supra inboard watersports boats are manufactured by Skier's Choice, Inc. in Maryville, Tennessee and distributed throughout the United States and the world.

This manual provides an overview for operating your Supra boat. It should be considered a permanent part of your Supra boat, and contains important information on Safety, Boating Rules, Proper Operation and Maintenance of your boat. Should the boat be sold, this manual will provide the same important information to the next owner.

Be sure to read and understand all aspects of Boating Safety and Operation before using your boat. If you have any questions, your dealer can provide the information you need to have a safe and pleasurable boating experience.

All information, illustrations and specifications in this manual are based on the latest product information available at the time of printing. Supra may discontinue models and equipment or change specifications and designs without any notice and without incurring obligation.

This manual contains information about several Supra models. Some information may not apply to your boat since standard and optional equipment may vary from model to model.

As you read through this manual, you will find **CAUTION**, **WARNING** and **DANGER** symbols which require special attention. Please read them carefully! They may tell you how to avoid problems and/or endangering yourself, your passengers, and other boaters. **PLEASE REVIEW ALL SAFETY INFORMATION.**

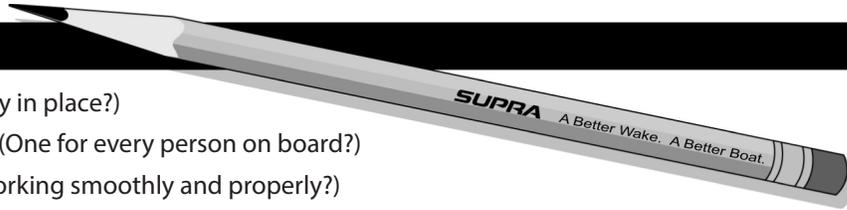


A maintenance schedule and accessory information are included to assure trouble-free operation of your boat. Should service problems arise, remember that your Supra dealer knows your boat best and is interested in your total satisfaction.

Thank you for purchasing a Supra boat. We hope your ownership results in an enjoyable and rewarding boating experience. Be safe and enjoy the fun!



Daily Checklist



- Drain Plugs (Securely in place?)
- Life-Saving Devices (One for every person on board?)
- Steering System (Working smoothly and properly?)
- Fuel System (Adequate fuel? Leaks? Fumes?)
- Battery (Fully charged? Cable terminals clean and tight?)
- Engine (In Neutral?)
- Capacity Plate (Are you overloaded or overpowered?)
- Weather Conditions (Safe to go out?)
- Electrical Equipment (Lights, horn, blower, bilge pump, etc.?)
- Emergency Gear (Fire extinguisher, bailer, paddle, anchor & line, signaling device, tool kit, etc.?)
- Bilge Pump (Working properly?)

NOTE: Bilge pump should be checked prior to each use to ensure proper operation!

Check **BEFORE** running (where applicable)

- Engine Oil level
- Transmission Lubricant level
- Engine Drain Plug, Transom Drain Plug and Center Drain Plug
- Leakage (Fuel, water lines and connections)

CAUTION

DO NOT operate engine without cooling water flowing through water pump, otherwise pump will sustain damage and subsequent engine damage may result!

Check **BEFORE** running

- Oil Pressure: Refer to Engine Owner's Manual
- Water Temperature: 160 degrees to 180 degrees for raw water systems (water is not recirculated), and 180 degrees to 200 degrees for closed cooling systems (water is recirculated).
- Idle RPM: (650-750) in gear.
- Maximum Forward RPM: See Engine Owner's Manual.

WARNING

- **GASOLINE VAPORS CAN EXPLODE! It is very important to check for fuel spillage or leaks prior to each use of your boat.**
- Check engine compartment for gasoline vapors.
- Operate blower for 4 minutes before starting the engine.
- Always operate blower below cruising speed.
- **NOTE: Please refer to your Engine Owner's Manual for maximum RPM and engine break-in procedure.**



Important Safety Information!

Your safety, as well as the safety of others with and around you, is a direct result of how you operate and maintain your boat. Read and comprehend this manual. Make sure that you understand all the controls and operating instructions before attempting to operate the boat. Improper operation is extremely dangerous.

The basic safety rules are outlined in this section of the manual. Additional precautions throughout the manual are noted by the following symbols:

⚠ CAUTION

This symbol indicates a potentially hazardous circumstance, which, if not avoided, may result in *minor or moderate injury*. It may also be used to alert against unsafe practices.

⚠ WARNING

This symbol indicates a potentially hazardous situation, which, if not avoided, could result in *death or serious injury*.

⚠ DANGER

This symbol indicates an imminently hazardous situation, which, if not avoided, will result in **death** or **serious injury**. This is limited to the most extreme situations.

The precautions listed in this manual and on the boat are not exhaustive. If a procedure, method, tool or part is not specifically recommended by Skier's Choice, you must satisfy yourself that it is safe for you and others, and that the boat will not be damaged or made unsafe as a result of your decision.

REMEMBER: ALWAYS USE COMMON SENSE WHEN OPERATING, SERVICING OR REPAIRING THE BOAT!

In addition to everyday safety, failure to observe safety recommendations may result in severe personal injury or death to you or to others. Use caution and common sense when operating your boat. Don't take unnecessary chances!

Be certain that all boat passengers are aware of this information and conform to boat safety principles.

Safe Boating

Safe boating practices may seem obvious, but people have thought up risky and dangerous activities in boats, with boats, and behind boats. Just because you or your passengers have seen a boating maneuver performed or have seen a particular activity promoted, do not assume there is no risk of injury or death. Before you or your passengers go out in the boat and engage in any water sport activity, give careful consideration to the risks. Plan ahead. Think twice before you try something new behind your boat or with your boat. Know the limits of you, your passengers and your equipment and do not exceed them.

In addition to careful review of this manual, you should be aware as well that there are many sources of information available. Skier's Choice urges you to pursue additional training, such as safety and seamanship courses offered by the U.S. Coast Guard Auxiliary and the U.S. Power Squadron.

Safe boating and safe actions may seem obvious, yet every year US Coast Guard statistics give evidence that many people disregard safe boating practices. Do not take safety for granted. Think twice. We want all our boat owners and their passengers, friends, and families to have a safe and enjoyable experience on the water.

US Coast Guard Auxiliary Boating Safety Course

The purchaser of a new 2017 Supra boat is entitled to a USCGA Boating Safety Course that Supra will pay for. Please see the Certificate in your owner's packet or your dealer for more details.

Water Sports Names and Terminology

There are many types of towed water sports, and they are known by many different names. The more popular sports are wakeboarding, waterskiing, surfing, wakeskating and tubing. And there are many others. The terms used to describe participants in towed water sports activities also vary greatly. Typical terms include rider, skier, and wakeboarder. To keep the language in this manual straightforward, we use rider or skier to refer to a participant in any towed water sport. The terms ski, skiing, riding, surfing or wakeboarding are used to refer to any towed water sport.

Safety Training Organizations

The following is a listing of just some of the agencies and organizations that offer safety training or information:

American Red Cross, National HQ

2025 E Street NW, Washington, DC 20006
(202) 303-4498 www.redcross.org

USA Waterski

1251 Holy Cow Rd., Polk City, FL 33868
(863) 324-4341 www.usawaterski.org

Boat Owners Association of the United States (BOAT/US)

880 South Pickett Street, Alexandria, VA 22304
(703) 461-4666 www.boatus.com

National Safe Boating Council

P.O. Box 509, Bristow, VA 20156
(703) 361-4294 www.safeboatingcouncil.org

U.S. Coast Guard Auxiliary Public Relations Center

9449 Watson Industrial Park, St. Louis, MO 63126
(877) 875-6296 www.cgaux.org

U.S. Power Squadron

P.O. Box 30423, Raleigh, NC 27622
(888) 367-8777 www.usps.org

On-Line Basic Boating Safety Course

www.boatsafe.com

National Marine Manufacturers Association

231 S. LaSalle Street, Suite 2050, Chicago, IL 60604
(312) 946-6200 www.nmma.org

Federal law requires certain safety equipment to be onboard at all times. In addition, responsible boaters carry other equipment in case of emergency. Check with the local boating authorities for any additional requirements over and above the federal stipulations.

Safety Equipment

Your Supra has been equipped at the factory with most of the federally required safety equipment for inland waters (Class 1, 16'-to-26'). This equipment includes:

- UL-approved Marine Fire Extinguisher, Type A-BC (2 lbs.), good for solids, liquids, and electrical fire
- ABYC-approved Marine Mufflers with water injection
- USCG-approved Marine Flame Arrestor
- USCG-approved Engine Box Ventilation with sparkless power blower
- ABYC-approved Electric Horn sound warning device
- USCG-approved inland lighting

Federal law also requires at least one Type I, II or III Personal Flotation Device (PFD) for each person on board or being towed on water skis or other recreational equipment. In addition, one throwable Type IV PFD must also be on board. As the owner, obtaining the appropriate PFDs is your responsibility. Your Supra dealer can and will be happy to assist you.

NOTE: Requirements for coastal waters and inland waters differ. Check with the local authorities for more information.

A smart owner will avoid potential problems on an outing by having additional equipment on board. Normally, this equipment is dependent on the body of water and the length of the trip.

We suggest the following—as a minimum. Your Supra dealer can also assist you with additional recommendations.

- An anchor with at least 75 feet of line
- A manual bailing device for removing water
- A combination oar/boat hook
- A day-and-night visual distress signal
- A first aid kit and manual
- An airway breathing tube
- A waterproof flashlight
- A set of local navigation charts
- Mooring lines and fenders
- Extra engine oil
- A tool kit
- A portable AM/FM radio or weather radio
- VHF hand held marine radio
- Cell Phone

Boating-related accidents are generally caused by the operator's failure to follow basic safety rules or written precautions. Most accidents can be avoided if the operator is completely familiar with the boat, its operation, and can recognize potentially hazardous situations before an accident occurs.



General Safety Precautions

Failure to adhere to these precautions may result in severe injury or death to you and/or others.

WARNING

- Improper operation is extremely dangerous. Operators must read and understand all operating manuals supplied with the boat before operation.
- Remain seated at all times while the boat is in motion.
- Never stand or allow passengers to stand while the boat is moving. You or others may be thrown from the boat.
- Children in the bow of the boat should be accompanied by an adult at all times.
- Never operate the boat while under the influence of alcohol or drugs.
- On-board equipment must always conform to the governing federal, state, and local regulations.
- Gasoline vapors can explode. Before starting engine, open engine box, check engine compartment for gasoline vapors, and operate blower for at least four minutes. Run blower below cruising speed.
- Leaking fuel is a fire and explosion hazard. Inspect system regularly. Examine fuel tanks for leaks or corrosion at least annually.
- Never override or modify the engine safety shut-off switch or engine neutral starting safety switch in any way.
- Never remove or modify components of the fuel system in any way except for maintenance by qualified personnel. Tampering with fuel components may cause a hazardous condition.
- Never allow any type of spark or open flame on board. It may result in fire or explosion.
- It is the owner's responsibility to check tightness of the tower bolts BEFORE each use.
- The tower is designed to pull a single (1) individual. DO NOT climb or sit on the tower. Rope may loop on inverted tricks. DO NOT sit behind the pulling point of the tower.
- Comply with the capacity limits stated on the capacity warning label in the boat.

DANGER

- To avoid serious personal injury, DO NOT be on or about the swim platform while engine is running and keep away from rear of boat while engine is running.
- To avoid serious personal injury, DO NOT operate engine while anyone is on or about the swim platform or in the water near the boat.

General Safety Precautions *(continued)*

CAUTION

- The tow bar is not designed for vertical extensions. Any modifications to the tow bar or its mountings may result in damage to the boat and injury to the user.
- The tower may strike low objects. Check clearance height around docks, shore, overhanging objects, bridges and power lines.
- Do not pull past 45 degrees of the centerline of the boat. Failure to follow this rule could result in the boat capsizing.

CAUTION

- It is the driver's responsibility to ensure all passengers are seated when the boat is underway.

WARNING

Failure to adhere to these warnings may result in severe injury or death to you and/or others.

- This boat is a high-performance boat and capable of quick and tight turns and changes in direction. It is the driver's responsibility to operate the boat in a manner to ensure the safety of all passengers.

WARNING

Boaters must continuously be aware of weather conditions.

- Sudden storms, wind, lightning, etc., can unexpectedly put boaters in grave danger. Always check the local weather report before going boating.

WARNING

It is the driver's responsibility to determine if weather or other factors have created an unsafe boating environment.

The driver is solely responsible for the consequences of their actions.



Water Sports Safety

Riders are obligated to be as aware of the fundamental safety rules as well as the boat operator. If you are new to towed water sports, seek certified training before starting. You will find it especially helpful to join a local ski club and USA Waterski when possible.

Always remember that the majority of water sports injuries are the result of impacts with other objects, so always look where you are going and be aware of what is going on around you.

WARNING

Failure to adhere to these warnings may result in severe injury or death to you and/or others.

- Every skier must always wear a USCG-approved personal flotation device.
- Maintain a distance of at least 100 feet from all other objects, including other boats, piers, rafts, mooring and navigational buoys, pilings, abutments, or any other items.
- Always have an experienced driver and observer in the boat when skiing.
- Never ski in shallow water, close to shore, or in water where you do not know the depth or what is beneath the surface.
- Never put your arm, head, or any other part of your body through the handle-bridle of the ski line nor wrap the line around any part of the body at any time.
- Never ski at night, or directly in front of other boats.
- Never jump from a boat that is moving at any speed, nor enter or exit the water when the engine is running (ON).
- Make sure that everyone knows and uses approved skiing hand signals and common skiing courtesy.

Carbon Monoxide (CO) Safety

DANGER

Carbon monoxide is a colorless, odorless and tasteless gas. It is produced by gasoline engines and is a component of exhaust fumes.

Shut off the engine when people are on the swim platform or in the water around the rear of the boat.

Do not do any other activities which puts people in close proximity of the transom when the engine is running.

For the most current information on carbon monoxide, you may call, write or visit on-line any of the following:

United States Coast Guard

Office of Boating Safety (CG-5422)
2100 Second Street SW STOP 7581,
Washington, DC 20593-7581
1-800-368-5647 www.uscgboating.org

Carbon Monoxide (CO) Safety (continued)

NMMA

National Marine Manufacturers Association
231 S. LaSalle St., Suite 2050, Chicago, IL 60604
312-946-6200 www.nmma.org

American Boat & Yacht Council, Inc.

613 Third St., Suite 10, Anapolis, MD 21403
410-956-4460 www.abycinc.org

Product Misuse

Misuse of the product or use of it in a manner for which it was never intended can create dangerous situations. The driver and passengers are responsible for using the product safely and as intended. The driver must operate the boat in a manner that ensures the safety of all passengers. If you or your passengers are unsure about use of the product, about performing certain boating maneuvers or are unsure about a particular water activity, refer to this manual or contact a knowledgeable source such as your local dealer, Skier's Choice, Inc., the US Coast Guard, or your local boating authority.

Capacity and Weighting Your Boat

Do not exceed the capacity warning label affixed to the boat in the helm area. The capacity limit is shown in the number of people and weight limit in pounds. The combined weight of people and gear must be considered when loading the boat. Factory ballast and fuel have been considered in the capacity limit and do not need to be added to the people and gear weight. Ballast weight above factory installed equipment must be calculated into the total weight of people and gear.

Although water intrusion and waves spilling inside a boat is an obvious boating hazard, this hazard can increase when weighting your boat for water sports such as wakeboarding or wakesurfing. Do not overweight the boat or exceed boat capacity. Use good judgment when using unbalanced weight in your boat. Concentrating weight in a rear corner of the boat for wakesurfing puts the top of the deck closer to water level. Backwash, large waves and choppy water are more likely to swamp the boat in this situation.

When loading your boat give separate attention to the bow area. Excess and unevenly distributed weight in the bow of the boat can create a water influx hazard, unstable steering conditions, and even loss of control. Driver visibility can be reduced if the bow is overloaded or unevenly weighted.

WARNING

Excess and improper loading of bow area forward of windshield may cause water influx, operating instability, and loss of control resulting in injury or death. Bow Capacity Limit - Refer to seating capacities in this manual

Use good judgment when weighting your boat for any towed water sports. Educate yourself on the proper responses for the differing and potentially unsafe conditions you could encounter.



Proper Seating

Proper seating is an important element of boating safety. Proper seating consists of sitting with your buttocks in full contact with a seat cushion within easy reach of a suitable handhold or grab rail anytime the boat is underway. Handholds and grab rails should be used to secure oneself and prevent loss of balance. Do not sit in locations not designed as a seat. For instance, do not sit on seat backs, do not sit on the sides or gunwale of the boat, and do not sit on the sundeck while the boat is in motion. See examples below of proper sitting positions.



The driver must be aware of all passenger's locations and positions, and passengers must stay alert to changes in direction.

The boat is capable of quick and tight turns. Such maneuvers can cause unseated occupants to be thrown around or out of the boat. Alert passengers before changes in direction.

Convertible Rear Seat

Some Supra models are equipped with a convertible rear seat. The rear seat lifts from the back, hinges forward, and can be used for a cockpit table. Lift the table forward and it becomes a rear facing seat.

⚠ CAUTION

The convertible rear seat back does not lock into place. It is not intended as support. Do not lean on or use as a brace in case of sudden change in direction.

Coast Guard Regulations

The United States Coast Guard boating regulations prescribe minimum standards of safety to be met and maintained by all watercraft. It is necessary that your boat remain in compliance with these regulations.

The staff at Skier's Choice, Inc. recommend that all boat operators complete a Coast Guard approved boating safety course.



Maximum Capacities

In compliance with United States Coast Guard Regulations, Supra Boats meet or exceed all safety standards designed for recreational boats. To ensure safe handling and performance, each Supra boat displays a maximum capacity sticker (see sample), stating the maximum total weight load allowable.

NOTICE: Refer to the Maximum Capacity Sticker on your boat for allowable loading.

⚠ WARNING

Do not exceed the maximum capacity of the boat.

Contact Information

If you have questions regarding the operation of your boat, accessory or options or questions in regard to Boat Safety, contact your dealer or Skier's Choice, Inc. at 865-983-9924.

Seating Capacities

Each 2017 model is marked below to illustrate designated seating positions.

SR-
14 Passengers



SA-
16 Passengers



SG-
17 Passengers

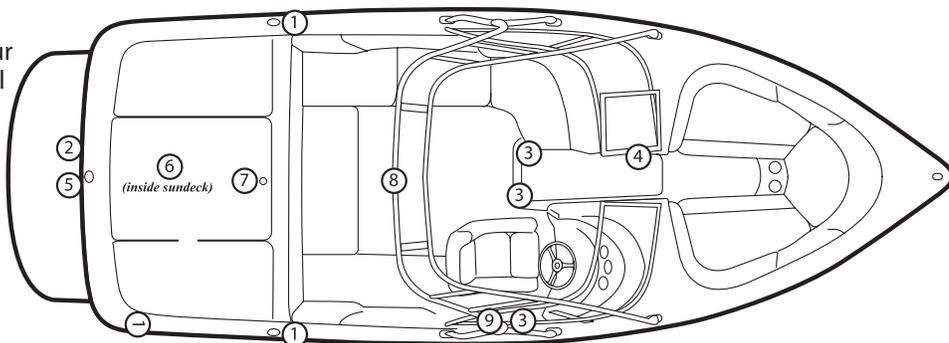


SE -
18 Passengers



Typical Warning Label Locations V-Drive Models

Warning labels are placed on your boat to alert you to potential hazards that may not be obvious. They also tell you how to avoid the hazard. Warning labels should never be removed and, if any label is damaged, it should be replaced as soon as possible.



Warning Plates & Labels

Read and note ALL warning plates and labels from bow to stern that appear on the boat, including these.

If your warning decals should become damaged in any way, please contact your Moomba Dealer or write Skier's Choice, Inc. to request replacement warning decals. The decals will be provided free of charge. Your boat's serial number (located on the transom) must be included for warning decal requests.

(one of two places depending on location of fuel cap)

① **WARNING**

- AVOID SERIOUS INJURY OR DEATH.
- FIRE, EXPLOSION AND SPLASHING FUEL HAZARD.
- IF TANK IS OVERFILLED, FUEL WILL DISCHARGE OUT THIS PORT.

(only if boat has tow eye)

② **WARNING**

- AVOID SERIOUS INJURY OR DEATH.
- TOW EYE SHOULD BE USED ONLY FOR TOWABLE WATER SPORTS DEVICES WITH 1 OR 2 INDIVIDUALS. TOW EYE WEIGHT LIMIT IS 800 LBS.
- DO NOT USE TOW EYE FOR OTHER TOWABLE OBJECTS OR TOWING BOATS.
- DO NOT USE TOW EYE TO LIFT BOAT.

(one of three places)

③ **DANGER**

- CARBON MONOXIDE AND PROPELLER HAZARD. DO NOT OPERATE ENGINE WHILE ANYONE IS ON OR ABOUT THE SWIM PLATFORM OR IN THE WATER NEAR THE BOAT. OWNERS AND OPERATORS MUST READ AND UNDERSTAND ALL PRODUCT WARNINGS AND MANUALS BEFORE USE.

WARNING

- AVOID SERIOUS INJURY FROM LOSS OF BALANCE AND FALLING OVERBOARD. ALL OCCUPANTS MUST REMAIN SEATED AT ALL TIMES WHILE BOAT IS IN MOTION.
- BOAT IS CAPABLE OF QUICK AND TIGHT TURNS. SUCH MANEUVERS CAN CAUSE UNSEATED OCCUPANTS TO BE THROWN AROUND OR OUT OF THE BOAT. ALERT PASSENGERS BEFORE CHANGES IN DIRECTION. THE DRIVER IS RESPONSIBLE FOR OPERATING BOAT IN A MANNER THAT ENSURES THE SAFETY OF PASSENGERS.
- GASOLINE VAPORS CAN EXPLODE. BEFORE STARTING ENGINE, OPEN ENGINE BOX, CHECK ENGINE COMPARTMENT FOR GASOLINE VAPORS, AND OPERATE BLOWER FOR AT LEAST 4 MINUTES. RUN BLOWER BELOW CRUISING SPEED.

④ **WARNING**

- AVOID SERIOUS INJURY OR DEATH FROM LOSS OF BALANCE AND FALLING OVERBOARD.
- CHILDREN SHOULD BE SUPERVISED BY AN ADULT AT ALL TIMES.
- REMAIN PROPERLY SEATED AT ALL TIMES WHILE BOAT IS IN MOTION.
- DO NOT STAND UP OR MOVE ABOUT WHILE THE BOAT IS IN MOTION.

⑤ **DANGER**

- AVOID SERIOUS INJURY OR DEATH FROM CARBON MONOXIDE AND PROPELLER HAZARD.
- DO NOT BE ON OR ABOUT THE SWIM PLATFORM WHILE ENGINE IS RUNNING OR BOAT IS IN MOTION.
- KEEP AWAY FROM REAR OF BOAT WHILE ENGINE IS RUNNING.

(inside motorbox)

⑥ **WARNING**

- AVOID SERIOUS INJURY OR DEATH.
- LEAKING FUEL IS A FIRE AND EXPLOSION HAZARD.
- INSPECT SYSTEM REGULARLY. EXAMINE FUEL SYSTEM FOR LEAKS AND CORROSION AT LEAST ANNUALLY.

⑦ **WARNING**

- AVOID SERIOUS INJURY OR DEATH.
- TOW PYLON SHOULD BE USED ONLY FOR TOWABLE WATER SPORTS DEVICES.
- DO NOT USE TOW PYLON FOR OTHER TOWABLE OBJECTS OR TOWING BOATS.
- TOW PYLON IS NOT DESIGNED FOR VERTICAL EXTENSIONS. ANY MODIFICATIONS TO THE TOW PYLON OR ITS MOUNTINGS MAY RESULT IN DAMAGE TO THE BOAT AND INJURY TO THE USER.
- DO NOT SIT BEHIND THE TOW PYLON WHEN IN USE.

(if equipped with tower)

⑧ **WARNING**

- AVOID SERIOUS INJURY OR DEATH FROM MISUSE OF TOWER.
- THE TOWER IS DESIGNED TO PULL A SINGLE (1) WAKEBOARDER.
- DO NOT CLIMB OR SIT ON THE TOWER.
- DO NOT SIT BEHIND THE PULLING POINT OF THE TOWER TO AVOID CONTACT WITH ROPE.
- THE TOWER MAY STRIKE LOW OBJECTS. CHECK CLEARANCE HEIGHTS DURING OPERATION AND TOWING.

⑨ **WARNING**

**LOOSE FITTINGS
MAY RESULT IN
TOWER COLLAPSE.**

**CHECK TIGHTNESS
OF TOWER BOLTS
AND KNOBS BEFORE
EACH USE.**

Skier's Choice, Inc. reserves the right to change warning labels without notification or incurring obligation. For a copy of the most current warning labels, please contact your dealer or Skier's Choice, Inc.



The time to think about emergencies is before they happen. Plan ahead. Know what to do before you encounter any of these situations. Wear a PFD (Personal Flotation Device) when boating.

Explosion & Fire

⚠️ WARNING

EXPLOSION/FIRE/ASPHYXIATION HAZARD

- Open flame cooking appliances consume oxygen. This can cause asphyxiation or death.
- Maintain open ventilation.
- Liquid fuel may ignite, causing severe burns.
- Use fuel appropriate for type of stove.
- Turn off stove burner before filling.
- Do not use stove for comfort heating.

FIRE/ASPHYXIATION HAZARD - Use special care with flames or high temperatures near urethane foam, if used in construction of your boat. Burning, welding, lights, cigarettes, space heaters and the like can ignite urethane foam. Once ignited, it burns rapidly, producing extreme heat, releasing hazardous gases and consuming much oxygen.

Explosion

- If explosion is imminent, put on PFDs, grab distress signals and survival gear, and immediately abandon ship.

Fire

- Turn off engines, generators, stoves and blowers. Extinguish smoking materials.
- Fixed fire suppression system, if equipped, has heat sensors that automatically flood machinery space with a fire extinguishant. Allow extinguishant to "soak" compartment for at least 15 minutes to cool hot metals or fuel before cautiously inspecting fire area. Have portable fire extinguishers ready. Do not breathe fumes or vapors caused by the fire or extinguishant.
- If no fixed firefighting system is installed and fire is in engine compartment, discharge portable fire extinguishers through the transmission cover which is typically located under the rear seat. Do not open engine hatch as this feeds oxygen to the fire.
- If you have access to fire, direct contents of extinguishers at base of flames, not at the top.
- Throw burning materials overboard if possible.
- Move anyone not needed for firefighting operations away from the flames.
- Signal for help.
- Put on PFDs, grab distress signals and survival gear, and prepare to abandon ship.

Abandoning Ship

⚠️ WARNING

BURN HAZARD

Swim against the current or wind if you abandon ship. Leaking fuel will float with the current and may ignite.

- When clear of danger, account for all who were on board, and help those in need.
- Use distress signal.
- Keep everyone together to make rescue easier.

Flooding, Swamping or Capsizing

- **STAY WITH THE BOAT!** A boat will usually float even if there is major hull damage. Rescuers can spot a boat much easier than a head bobbing in the water.
- Signal for help.

Collision

- Account for everyone on board.
- Check for injuries.
- Inspect structural damage.
- Reduce flooding.
- Signal for help.
- **STAY WITH THE BOAT!**

Grounding

Action depends on how hard the boat hits bottom and whether the boat remains stranded. If it is a simple touch, you may need only to inspect the hull. If you are aground, assess the situation before reacting. In some cases, throwing the boat into reverse can cause more damage.

Basic Guidelines

- Inspect damage to hull, propulsion and steering systems.
- Check for leaks. If water is coming in, stopping the flow takes priority over getting free.
- Determine water depth all around the boat and type of bottom (sand, mud, rocks, etc.). This will help you decide which way to move the boat.
- Determine if tide, wind or current will drive the boat harder aground or will help free it.

Leaks

- Immediately switch on bilge pumps.
- Assign crew to operate manual pumps, if needed.
- If boat is taking on water, have someone take the helm while you manage damage control.
- Slow or stop to minimize inflow. However, if you can keep a hole above water by maintaining speed, do so.
- If possible, patch the outside with whatever material is available.

Towing

WARNING

PERSONAL INJURY HAZARD

Towing or being towed stresses the boats, hardware and lines. Failure of any part can seriously injure people or damage the boat.

A recreational boat towing another is usually a last resort because of possible damage to one or both boats. The Coast Guard or a private salvage company is better equipped. A recreational boat may assist by standing by, and possibly keeping the disabled boat's bow at a proper angle until help arrives. Only when conditions are ideal—that is, waters are calm, disabled boat is small, and one or both skippers know correct technique—should a recreational boat tow another.

Towing Vessel

- Be sure your boat will not run aground too.
- Because you are maneuverable and the grounded boat is not, you should pass the towline to the grounded boat.
- Use double-braided or braid-on-braid line. Never use three-strand twisted nylon; it has too much elasticity and can snap back dangerously.
- Fasten the towline as far forward as possible on the upwind or up-current side of the towing boat.
- Fastening it to the stern will restrict maneuverability of the towing boat.
- If possible, use a bridle.
- Move slowly to prevent sudden strain on slack line.
- Be ready to cast loose or cut the line if the towing situation becomes hazardous.

Vessel Being Towed

- Attach the towline to the bow eye.
- If the boat has eyebolts in the transom for pulling skiers, a towline may be attached to a small bridle hooked to both eyebolts.
- If it is necessary to be towed after being freed, keep someone at the wheel to steer.

Both Vessels

- If you attach the towline to a fitting, be sure the fitting is fastened with a through bolt and is reinforced on the underside.
- Creating a bridle with a line around the hull or superstructure will distribute the load over a wide area; pad pressure points. This technique can be used on both the towing and towed boat.
- Keep lines clear of propellers on both boats.
- Keep hands and feet clear of the other boat.
- Never hold a towline after it is pulled taut.

Person Overboard

- Immediately sound an alarm and keep pointing to the person overboard.
- Throw a life preserver even if the person is wearing a PFD. It will serve as a marker.
- Immediately stop or slow the boat, then circle toward the victim.
- Keep person overboard on helm side so operator has the person constantly in sight.
- Approach from downwind and move alongside into the wind for pickup.
- When almost alongside, stop the engine in gear to prevent dangerous propeller "windmilling."
- As part of your emergency plan, consider what to do if you were alone and fell overboard (e.g., wear PFD, keep signal device in PFD, attach emergency stop switch lanyard to yourself).

Drowning

- Swim to rescue a drowning victim only as a last resort.
- Immediate resuscitation is critical! At least two people on board should be certified in CPR.
- Keep the victim warm.
- Use care in handling. Spinal injury may exist if the victim fell overboard.
- Signal for help.

Medical Emergency

- In an emergency, you may be far from professional medical assistance. Be prepared. Take a first aid course, and carry a first aid kit. Be aware of special conditions that may affect anyone on board.



Carbon Monoxide

Carbon monoxide is an odorless, colorless, extremely toxic gas. Symptoms of carbon monoxide poisoning are dizziness, ears ringing, headaches, nausea and unconsciousness. A poisoning victim's skin often turns cherry red.

Have the victim breathe fresh air deeply. If breathing stops, resuscitate. A victim often revives, then relapses because organs are damaged by lack of oxygen. Seek immediate medical attention.

Propulsion, Control or Steering Failure

- Shut off engine.
- Put out an anchor to prevent drifting.
- Determine if you can fix the problem yourself. See engine operator's manual if engine is flooded.
- Signal for help.

Radio Communication

Radio is the boat operator's main method of receiving safety information and summoning aid. VHF-FM radio is the primary means of short-range communication. Single sideband radio (SSB) is used for longer range communication.

VHF-FM Channel 16 and SSB 2182 kHz are designated for emergency use. Such situations can be categorized as:

- **Emergency** — **"MAYDAY, MAYDAY, MAYDAY"** — Used when a life or vessel is in imminent danger.
- **Urgency** — **"PAN-PAN, PAN-PAN, PAN-PAN"** (pronounced PAHN-PAHN) — Used when a person or vessel is in some jeopardy less than indicated by a Mayday call.
- **Safety** — **"SECURITY, SECURITY, SECURITY"** (pronounced SAY-CURE-IT-TAY) — Used for navigational safety or weather warning.

An emergency situation will be hectic and there will not be time to learn proper radio procedure. **LEARN WHAT TO DO BEFORE YOU NEED TO DO IT.**

If you hear a distress call, stop all radio transmissions. If you can directly assist, respond on the emergency frequency. If you cannot assist, do not transmit on that frequency. However, continue to monitor until it is obvious that help is being provided.

Distress Signals

Consult your national boating law enforcement agency.

Visual Distress Signals

- U.S. Coast Guard regulations require boats in coastal waters and the Great Lakes to carry visual distress signals for day or night use, as appropriate for the time of operation. Exempt from the day signals requirement, but not night signals, are boats less than 4.8 meters (16 feet), open sailboats less than 7.9 meters (26 feet), boats participating in organized events, and manually propelled boats.
- If you are required to have visual distress signals, at least three safety-approved pyrotechnic devices in serviceable condition must be readily accessible. They must be marked with a date showing the service life, which must not be expired.
- Carry three signals for day use and three signals for night use. Some pyrotechnic signals, such as red flares, meet both day and night use requirements.
- Store pyrotechnic signals in a cool, dry location. An orange or red watertight container prominently marked "Distress Signals" is recommended.

Other recognized visual distress signals include:

- Flames in a bucket
- Code flags November and Charlie
- Square flag and ball
- Black square and ball on orange background flag
- Orange flag (certified)
- Electric distress light (certified) - for night use only.
- Dye marker (any color)
- Person waving arms
- U.S. ensign flown upside down

Audible Distress Signals

U.S. Coast Guard regulations require one hand, mouth or power-operated whistle or horn, audible for at least a half mile.

Other recognized audible distress signals include:

- Radio communication (*see Emergency Procedures - Radio Procedures - Radio Communication*)
- Radio-telegraph alarm
- Position indicating radio beacon
- Morse Code SOS (3 short, 3 long, 3 short) sounded by any means
- Fog horn sounded continuously



Basic Boating Rules

You should be aware of these rules and follow them whenever you encounter another vessel on the water.

The rules presented in this manual are condensed and have been provided as a convenience only. Consult your local U.S. Coast Guard Auxiliary (USCGA) or Department of Motor Vehicles (DMV) for a complete set of rules governing the waters in which you will be using your boat. If you plan to travel—even for a short trip—you would be well served to contact the regional USCGA or DMV in the area where you will be boating.

Review and understand all local and state laws.

Any time two vessels on the water meet one another, one vessel has the right-of-way. It is called the stand-on vessel. The vessel which does NOT have the right-of-way is called the give-way or burdened vessel.

These rules determine which vessel has the right-of-way, and accordingly, what each vessel should do.

The vessel with the right-of-way has the duty to continue its course and speed, except to avoid an immediate collision. When you maintain your direction and speed, the other vessel will be able to determine how best to avoid you.

The vessel which does not have the right-of-way has the duty to take positive and timely action to stay out of the way of the stand-on vessel. Normally, the give-way vessel should not cross in front of the stand-on vessel. Slow down or change directions briefly and pass behind the other vessel. You should always move in such a way that the stand-on operator can see what you are doing.

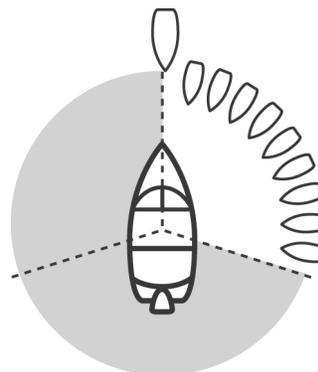
This rule is called Rule 2 in the International Rules and says, "In obeying and construing these rules due regard shall be had to all dangers of navigation and collision, and to any special circumstances, which may render a departure from the above rules necessary in order to avoid immediate danger."

Encountering Other Vessels

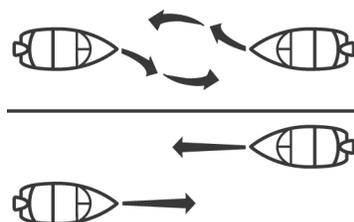
There are three main situations in which you may encounter other vessels and you must observe the Steering Rules in order to avoid a collision. These are:

- Meeting (you are approaching another vessel head-on)
- Crossing (you are traveling across the other vessel's path)
- Overtaking (you are passing or being passed by another vessel)

Using the following illustration in which you are the boat in the center, you should give right-of-way to all vessels shown in the white area. In this instance, you are the give-way vessel. All vessels in the shaded area must yield to you as you are the stand-on vessel. Both you and the meeting vessel must alter course to avoid each other.

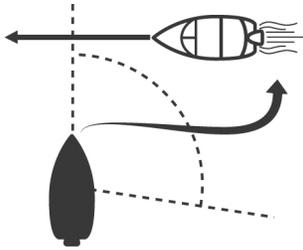


If you are meeting another power vessel head-on, and you are close enough to run the risk of collision, neither of you has the right-of-way. Both of you should alter course to avoid an accident. You should keep the other vessel on your port (left) side. This rule doesn't apply if both of you can clear each other by continuing your set course and speed.



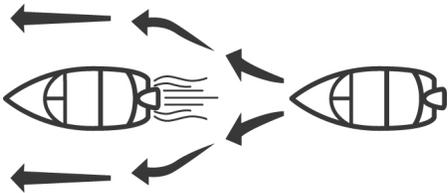
When two power-driven vessels are crossing each other's path close enough to run the risk of collision, the vessel that views the crossing vessel to the starboard (right) side must give-way.

If the other vessel is to the port (left) side, maintain your course and direction, provided the other vessel gives you the right-of-way as it should.



If you are passing another vessel, you are the give-way vessel. This means that the other vessel is expected to maintain its course and speed. You must stay out of its way as you clear it, altering course and speed as necessary.

Conversely, if you are being passed by another vessel, you should maintain your speed and direction so that the other vessel can steer itself around you.



There are three other rules to always remember when driving your boat around other vessels.

When navigating in narrow channels, you should keep to the right when it is safe and practical to do so. If the operator of a power-driven vessel is preparing to go around a bend that may obstruct the view of other water vessels, the operator should sound a prolonged blast on the whistle or horn—four to six seconds.

If another vessel is around the bend, it too should sound the whistle or horn. Even if no reply is heard, however, the vessel should still proceed around the bend with caution.

If you navigate these type of waters, you should carry a portable air horn, which are available from local marine supply stores.

All vessels which are fishing with nets, lines or trawls are considered under International Rules to be fishing vessels. Boats with trolling lines are not considered fishing vessels.

Fishing vessels have the right-of-way, regardless of position. These vessels, however, cannot impede the passage of other vessels in narrow channels.

Sailing vessels should normally be given the right-of-way. The exceptions to this are:

- When the sailing vessel is overtaking the power-driven vessel, the power-driven vessel has the right-of-way.
- Sailing vessels should keep clear of any fishing vessel.
- In a narrow channel, a sailing vessel should not hamper the safe passage of a power-driven vessel which can navigate only in such a channel.

The waters of the United States are marked for safe navigation by the lateral system of buoyage. The markers and buoys you will encounter have an arrangement of shapes, colors, numbers and lights to show which side of the buoy a boater should pass when navigating in a particular direction.

The markings on these buoys are oriented from the perspective of being entered from seaward while the boater is going towards the port. This means that red buoys are passed on the starboard (right) side when proceeding from open water into port, and black buoys are to port (left) side. When navigating out of port, your position to the buoys should be reversed: red buoys to port and black buoys to starboard.

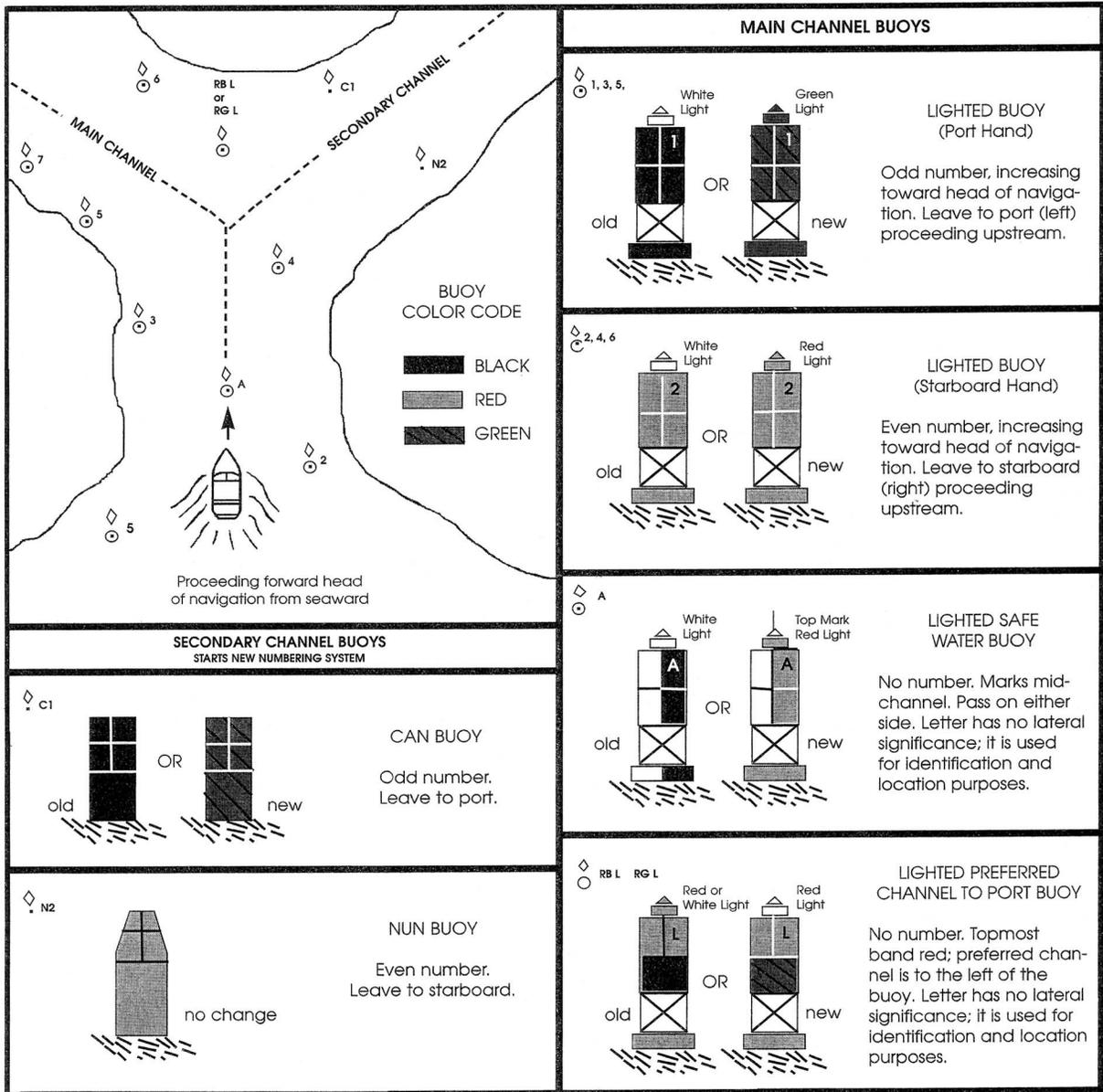
Many boating bodies of water are entirely within the boundaries of a single state. The Uniform State Waterway Marking Systems has been devised for these waters. This system uses buoys and signs with distinctive shapes and colors to show regulatory or advisory information.

These markers are white with black letters and orange borders. The information signifies speed zones, restricted areas, danger areas and general information.

Remember: Markings may vary by geographic location. Always consult local boating authorities before driving your boat in unfamiliar waters.

(See examples of buoys and markers next page.)





SR



SA



Boat Specifications:

Overall Length w/o Platform.....	20' 11"	.....	6.4M
Overall Length w/Platform.....	23' 1"	.....	7.0M
Overall Length w/Platform & Trailer.....	26' 10"	.....	8.2M
Width (Beam).....	102"	.....	2.6M
Overall Width w/Trailer.....	102"	.....	2.6M
Draft.....	28"	.....	0.7M
Weight - Boat Only.....	4,800 lbs.	.....	2,177K
Weight - Boat & Trailer.....	6,300 lbs.	.....	2,540K
Capacity - Passenger.....	14	.....	14
Capacity - Weight.....	2,200 lbs.	.....	771K
Capacity - Fuel.....	45 gals.	.....	170L
Capacity - Ballast.....	3,000 lbs.	.....	1361K
Engine.....	Raptor 400 - SR400	.....	6.2L

NOTE: Add weight for Fuel, Batteries, Options & Gear to determine true boat weight.

Boat Specifications:

Overall Length w/o Platform.....	22' 8"	.....	6.90M
Overall Length w/Platform.....	24' 10"	.....	7.6M
Overall Length w/Platform & Trailer.....	28' 7"	.....	8.7M
Width (Beam).....	102"	.....	2.54M
Overall Width w/Trailer.....	102"	.....	2.59M
Draft.....	28"	.....	0.7M
Weight - Boat Only.....	5,300 lbs.	.....	2,404K
Weight - Boat & Trailer.....	6,900 lbs.	.....	3,130K
Capacity - Passenger.....	16	.....	16
Capacity - Weight.....	2,400 lbs.	.....	861K
Capacity - Fuel.....	65 gals.	.....	189L
Capacity - Ballast.....	3,200 lbs.	.....	408K
Engine.....	Raptor 400 - SA400	.....	6.2L

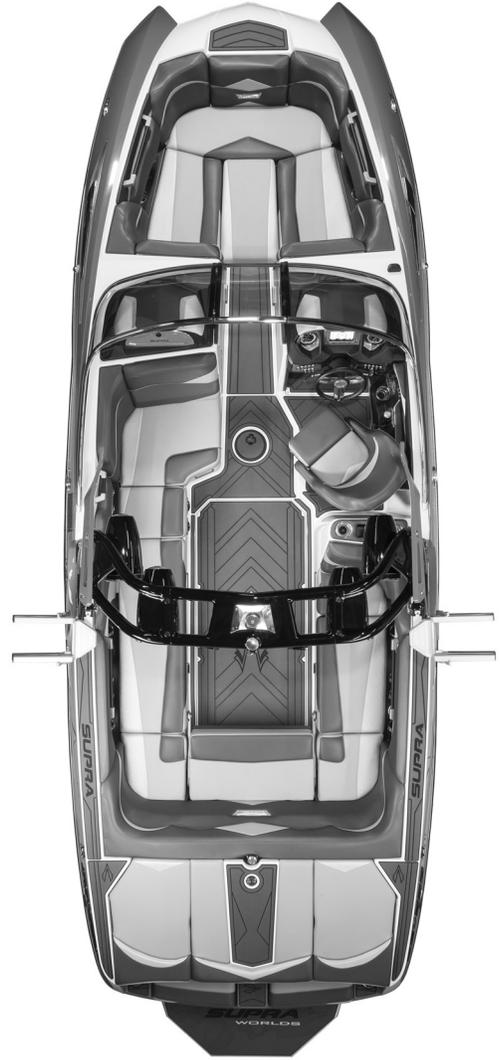
NOTE: Add weight for Fuel, Batteries, Options & Gear to determine true boat weight.



SG



SE



Boat Specifications:

Overall Length w/o Platform.....	23' 8"	7.34M
Overall Length w/Platform.....	25' 9"	7.6M
Overall Length w/Platform & Trailer	29' 6"	9.0M
Width (Beam)	102"	2.6M
Overall Width w/Trailer.....	102"	2.6M
Draft	28"	.66M
Weight - Boat Only	5,200 lbs.	2,359K
Weight - Boat & Trailer	6,800 lbs.	3,084K
Capacity - Passenger	17	17
Capacity - Weight	2,500 lbs.	952K
Capacity - Fuel	72 gals.	253L
Capacity - Ballast.....	3,200 lbs.	997K
Engine.....	Raptor 440 - SG450	6.2L

NOTE: Add weight for Fuel, Batteries, Options & Gear to determine true boat weight.

Boat Specifications:

Overall Length w/o Platform.....	24' 6"	7.34M
Overall Length w/Platform.....	26' 7"	7.8M
Overall Length w/Platform & Trailer	30' 4"	8.6M
Width (Beam)	102"	2.59M
Overall Width w/Trailer.....	102"	2.6M
Draft	28"	.66M
Weight - Boat Only	5,400 lbs.	2,450K
Weight - Boat & Trailer	7,000 lbs.	3,175K
Capacity - Passenger	18	18
Capacity - Weight	2,800 lbs.	952K
Capacity - Fuel	83 gals.	253L
Capacity - Ballast.....	3,200 lbs.	997K
Engine.....	Raptor 440 - SE450	6.2L

NOTE: Add weight for Fuel, Batteries, Options & Gear to determine true boat weight.



A standard pre-starting procedure should always be followed before the first start-up of the day.

1. Check the engine oil level.
2. Check for gasoline fumes in bilge or engine compartment.
3. Operate engine blower for 4 minutes before starting the engine to remove any fumes.
4. Check manual and automatic operation of bilge pump. Make sure bilge areas are empty.

Other items might also be inspected, depending on the boat and its use. It is advisable to formulate a check list particular to the equipment and operation of your boat.

REFER TO THE BOATMAN'S CHECKLIST OF THIS MANUAL.

Consult the local Coast Guard Auxiliary or Power Squadron for full details on boating safety.

NOTE: Add-on electrical accessories should never be connected to the ignition terminal or ignition circuit.

IMPORTANT: DO NOT continue to operate the starter for more than 15 seconds at a time without pausing to allow the starter motor to cool down for at least 2 minutes. This will also allow the battery to recover between starting attempts. PLEASE REFER TO ENGINE OWNER'S MANUAL FOR ADDITIONAL DETAILS.

⚠ DANGER

BEFORE STARTING ENGINE, BE SURE THAT THE SHIFT SELECTOR IS IN NEUTRAL.

The correct starting procedure depends upon the type of engine. Please refer to the engine manual before starting.

⚠ DANGER

Do not start engine if gas fumes are present.

To Start Electronic Fuel Injection (EFI) Engine

1. Place shift selector in Neutral with the throttle in the upright (zero) position. (If throttle is not in the idle position, the throttle position sensor will not allow the engine computer to proceed with a normal starting procedure).
2. Turn Ignition Key to Start Position to operate the starter.
3. Release the Key when engine starts (key will return to run position).
4. Allow the engine to establish a good idle (30 to 60 seconds) before getting underway.
5. Shift slowly into forward or reverse, allowing the transmission time to engage before powering up.

NOTE: It is normal for the idle to speed up in cold start conditions.

⚠ CAUTION

DO NOT continue to operate the starter for more than 15 seconds at a time without pausing to allow the starter motor to cool down for at least 2 minutes. This will also allow the battery to recover between starting attempts. PLEASE REFER TO ENGINE OWNER'S MANUAL FOR ADDITIONAL DETAILS.

NOTE: Should the EFI engine become "flooded" use the following procedure to start:

1. Place shift selector in Neutral and disengage the transmission by pushing the transmission lockout button located at the bottom of the lever.
2. With the transmission disengaged, push the lever forward to full throttle position. (This will cause the computer to shut off the fuel injectors, which will allow the engine to clear of excess fuel during starting).
3. Turn the Ignition Key to Start Position and operate the starter for no more than 15 seconds at a time, until the engine starts.
4. When the engine starts, back off the throttle and allow the engine to establish a good idle (30 to 60 seconds).
5. Return the throttle to idle position and the transmission lockout will automatically reengage the transmission in neutral position.
6. When ready to get underway, shift slowly into forward or reverse, allowing the transmission time to engage the gearing before powering up.

Engine Warm-Up

Always let engine warm up to normal operating temperature before accelerating.

Fuel Precautions



Use a gasoline with a minimum octane rating of 89. The Supercharged engine should use a minimum octane rating of 93. See engine owner's manual for more information.

⚠ WARNING

DO NOT use gasoline containing methyl alcohol (methanol). Methanol can damage your boat's fuel system.

⚠ CAUTION

Gasoline Stabilizer should be added to the fuel tank when the boat is used infrequently or whenever your boat will not be used for two weeks or more. During storage, always add Gasoline Stabilizer to reduce gumming or tank sludge.

⚠ CAUTION

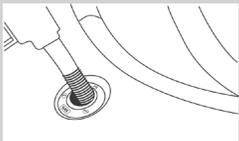
E-10 fuels require fuel stabilizers that are specifically designed for E-10 fuels to help prevent moisture absorption, phase separation and gasoline stabilization.

⚠ WARNING

E15 FUEL WARNING

- **DO NOT USE E15 FUELS!** E15 fuel WILL damage your engine and it will not operate.
- **THIS DAMAGE IS NOT COVERED BY ANY WARRANTY**

Filling the Tank



⚠ WARNING

- AVOID SERIOUS INJURY OR DEATH.
- FIRE, EXPLOSION AND SPLASHING FUEL HAZARD.
- IF TANK IS OVERFILLED, FUEL WILL DISCHARGE OUT THIS PORT.

WLFH0804

⚠ CAUTION

Be especially careful when filling the fuel tank. **DO NOT** over fill the tank. Fuel may empty through the fuel vent and damage to finishes could result.

If fuel is spilled on stripes or decals, apply a common bath cleaner (nonabrasive) and wipe with a damp cloth. Rinse the spill area with clean water.

Fuel Precautions

⚠ WARNING	
	<ul style="list-style-type: none">• AVOID SERIOUS INJURY OR DEATH.• LEAKING FUEL IS A FIRE AND EXPLOSION HAZARD.• INSPECT SYSTEM REGULARLY. EXAMINE FUEL SYSTEM FOR LEAKS AND CORROSION AT LEAST ANNUALLY.

WLENG0803

⚠ WARNING

Sparks while fueling could cause an explosion!

Before Fueling:

1. Turn off engine.
2. Turn off all electrical systems.
3. Extinguish cigarettes or any open flame.

While Fueling:

1. Keep fuel hose nozzle in contact with fill pipe to provide grounding.
2. Fill tank at a slow rate to avoid spills.

Fuel Vent

The fuel cap is located on the rear deck, 2-4 feet from the stern. To open, push the black tab located on the bottom side of the gas cap. When the black tab is pushed, the gas cap will hinge upward. To close, push the gas cap down. When the gas cap is completely closed a "click" sound should be heard. The audible "click" ensures that the gas cap is closed and sealed.

The new fueling system prevents spillage from occurring. Air is allowed to escape from the front and rear of the gas tank. Both vents are on a central fuel line, which runs to a central holding container for the vapor. The vapor is released over time. This type of venting system allows for the tank to be filled without building any back pressure. Without back pressure, spillage should be completely eliminated from the fueling process.

This venting system doesn't allow water to enter the fuel system. In the unlikely event that water runs up against the fuel vent, the fuel vent has a one-way valve. The one way valve allows for air to release, but denies water from entering. The gas cap itself is sealed with a rubber seal. When the gas cap is "clicked" closed the seal prevents any water from entering the system.

⚠ DANGER

Fuel Tank Pump



Your boat contains a fuel system that is designed using current fuel delivery technology. The common terminology for this type of system is: Pump in Tank.

The system consists of a dual high pressure pump canister that is mounted inside the fuel tank. On the top of the canister there is a fuel pressure regulator. The engine's fuel lines are connected to the in tank fuel pump via a specially designed shielded, flexible high pressure fuel hose. This hose is pressurized. This system requires special tools and knowledge to service and maintain and as such is not owner serviceable.

The fuel filter for the boat's fuel delivery system is in the fuel tank. This style filter system is considered a lifetime filter under normal circumstances.

The pump in tank fuel delivery system uses the fuel to lubricate and cool the fuel pumps. Running the pumps with very low fuel levels or running the pumps without fuel in the tank can induce air into the pumps which may shorten the fuel pump's longevity. This type of fuel pump damage is not warrantable.

The following USCG information is important to your safety and safe operation of the boat:

"THIS BOAT COMPLIES WITH U.S. COAST GUARD SAFETY STANDARDS IN EFFECT ON THE DATE OF CERTIFICATION WITH THE EXCEPTION OF CERTAIN FUEL SYSTEM REQUIREMENTS ASSOCIATED WITH ITS FUEL INJECTED ENGINE AS AUTHORIZED BY U.S. COAST GUARD GRANT OF EXEMPTION (CGB 09-003). MAINTENANCE OF THE FUEL SYSTEM IN THIS BOAT SHOULD BE PERFORMED ONLY BY EXPERIENCED TECHNICIANS USING IDENTICAL FUEL SYSTEM COMPONENTS."

"SERVICE OF THE ENGINE INSTALLED IN THIS BOAT REQUIRES SPECIAL TOOLS, TRAINING AND GENUINE REPLACEMENT PARTS WHICH ARE ONLY AVAILABLE FROM SKIER'S CHOICE, INC. THE FUEL SYSTEM SHOULD BE SERVICED ONLY BY A SKIER'S CHOICE TRAINED CERTIFIED TECHNICIAN. DO NOT ATTEMPT TO SERVICE THE SYSTEM YOURSELF."

Center Drain Plug



On V-drive models the center drain plug is accessed via the access cover in the center floor panel.

It is extremely important that the drain plug is always checked before starting the engine. The drain plug should be secured in place using a wrench.

⚠ WARNING

DO NOT start engine until center drain plug is checked and secured in place.

Rear Drain Plug

The rear drain plug is located at the back of the boat, near the bottom of the transom (See photo). It is extremely important that the drain plug is always checked before starting the engine. The drain plug should be secured in place using a wrench.

⚠ WARNING

DO NOT start the engine until the drain plug is checked and secured in place.

DO NOT try to install the drain plug while the engine is running.



Throttle Lever

The throttle lever controls both the throttle and the transmission. The idle position (normally vertical) is the zero throttle position and the neutral position for the transmission. A safety ring (umbrella) keeps the lever from being accidentally moved to engage the transmission.

To place the transmission into gear, with your hand placed over the lever ball, pull up on the safety ring (umbrella) and slowly push the lever into forward gear or slowly pull the lever back into reverse gear.

CAUTION

Never shift the lever directly from the neutral (vertical) position into a speed position.

- To prevent damage to the transmission, always allow the transmission time to engage before accelerating the engine.
- Once the transmission's engaged, you may accelerate as quickly as you like.



Transmission Lockout

The Transmission Lockout button allows the transmission to be disengaged while giving the throttle full operating range. With the lever in the idle position (normally vertical), push the button located at the bottom of the lever to disengage the transmission. The throttle may then be operated in any open position (forward of neutral or back of neutral upright position). Return the throttle to idle position, and the transmission lockout will automatically reengage the transmission in neutral position.

Optional Water Strainer

The optional engine water strainer is a filter for the engine cooling water. It is recommended for boats that are going to be operated in weedy conditions or other areas where debris could clog the engine. It consists of a stainless steel mesh filter inside a clear cup. It is located between the water intake on the bottom of the boat and the engine's raw water pump. It should be checked periodically for debris as conditions dictate. To remove debris, unscrew the clear sight cup, remove the o-ring and stainless steel mesh filter and proceed to rinse out the cup. Be sure to reinstall the mesh filter and o-ring before reattaching the sight cup to the inlet.

Optional Water Strainer & Fresh Water Flush



The optional Fresh Water Flush kit is a valve specifically designed to allow you to attach a garden hose to your engine water intake to flush brackish or salt water out of your engine. To use the Fresh Water Flush, simply attach a garden hose to the valve. Turn on the water to the valve. Start the engine. Monitor the exhaust ports on the transom of your boat and engine temperature gauge. Water should come out of the exhaust ports while the engine is running. It is recommended that you run the engine at a low RPM while flushing, since the engine's raw water pump at higher RPMs can pump more water than the garden hose can supply. If you have questions on the operation of your Fresh Water Flush kit, consult your Supra Dealer.



This section provides the information needed to understand and operate the VISION Dash System installed on all Supra Boat Models.

The instrument system includes gauges, digital displays, and a Graphical Information Center to communicate vital real-time information about the status and performance of the boat to the driver. By just glancing at the dash, the driver can access:

- Boat Speed
- Zero OFF
- Smart Plate™
- Depth
- Engine RPM
- Remaining Fuel
- Audio Source
- Time
- Cruise Set Speed
- Transmission (F,N,R)
- Lake Temperature
- Engine Oil Pressure
- Engine Coolant Temperature
- Battery Voltage
- Ballast



NOTE: Some options are shown.



Tachometer



The tachometer indicates the engine revolutions per minute (RPM).

DO NOT exceed the recommended RPM during break-in and normal operation of your motor. Exceeding the manufacturer's suggested RPM may cause damage to the engine.

Speedometer



The speedometer indicates the water speed of the boat in miles per hour. It is recommended that the speedometer be checked for accuracy periodically.

Engine Data Displayed on VISION Center Main Page

Oil Pressure Display

The oil pressure display indicates the oil pressure in the engine while the engine is running. If the oil pressure remains below the normal range of 10 to 80 psi, stop the engine immediately. If engine is allowed to run while oil pressure is too low, permanent engine damage may occur.

CAUTION

Running the engine with low oil pressure may cause severe engine damage.

Coolant Temperature Display

The temperature display indicates the engine coolant temperature while the coolant is circulating inside the engine. Engine operating temperatures will vary depending on the weather conditions and engine load. Normal operating temp range is between 160 degrees and 180 degrees.

NOTICE: Refer to your Engine Owner's Manual for additional details.

CAUTION

Damage from overheating an engine IS NOT warrantable.

Voltage Display

The voltage displayed indicates the battery voltage when the engine is running or the battery voltage when the engine is stopped. The voltmeter should indicate a voltage between 13 and 16 volts when the engine is running. The electronics in Supra boats are designed to operate with batteries that have 10.8 volts or higher. Components will not work properly if battery voltage is below 10.8 volts.

Speedometer Paddle Wheel

The Speedometer pickup is a paddle wheel located on the bottom of the boat. Poor water conditions may cause the wheel to become clogged or give incorrect information.



Fuel Gauge



The Fuel Gauge, located on the Tachometer, indicates the amount of fuel remaining in the fuel tank.

This gauge indicates the approximate quantity of fuel remaining in the tank when the ignition is in the "ON" position.

NOTICE: DO NOT run the tank to empty. To prevent condensation from forming in the tank, it is recommended that the tank be filled when the gauge indicates 1/4 tank of fuel remaining.

The following conditions may be considered normal operation of the fuel gauge and fuel system:

- Gas station pumps may shut off before the fuel gauge indicates FULL.
- The amount of fuel required for fill-up may not exactly correspond to the gauge.
- The gauge needle may not move away from FULL until some time after fill-up.
- The gauge needle may move around when boat is in motion.

NOTICE: Become familiar with engine hourly fuel consumption at various speeds and know when to check the fuel gauge.

Trim Gauge



The Trim Gauge, located on the Speedometer, indicates the position of the Wake Plate.



Supra VISION TOUCH 2017



We continually strive to bring you the highest quality, full-featured products. As a result, you may find that your actual display screens may be slightly different than what was represented in this manual at the time of printing.



Product Information

The Supra Vision Touch 2017 display is designed for instrumentation and control on electronically controlled engines communicating via SAE J1939 and NMEA 2000. The display enables boat operators to view many different engine, ballast, transmission parameters and service codes and is a multifunctional tool that provides GPS tracking, a multimedia display, cruise control and rider profiles. Included with this solution is the HV700 Touch unit.



Care and Maintenance

General maintenance is not required; however, a soft cloth can be used for cleaning the units. Window cleaner or alcohol can also be used to clean the glass portion of the display. Do not use harsh or abrasive cleaners on the unit.



Basic Navigation Features

All product features are easily accessed through Quick Access Keys, Touch Point commands and Menus.

Quick Access Keys

A new screen can be accessed quickly by pressing one of the following Quick Access Keys:



Touch Point Commands

Once the desired screen is accessed, navigation within the screen is controlled with Touch Point commands. They are executed by touching the screen in areas that are outlined with a highlighted bezel.



Features

Home Screen

The Gauges screen can be accessed by pressing the Home/Gauges  Quick Access Key.



This screen shows the:

- Water Depth
- Water Temperature
- Engine Temperature
- Battery Voltage
- Speedometer/Setspeed
- Fuel Gauge
- Oil Gauge
- Ballast Levels
- Swell Plates/Smart Plate Position
- Rider Name/Time
- River Mode
- Swell Surf
- Save Current Settings (when ZeroOff® is on)

The cruise control can be turned ON or OFF from this screen by touching **[ZERO OFF]** located

in the lower right of the screen or by pressing the  button.



Home Screen Touch Points



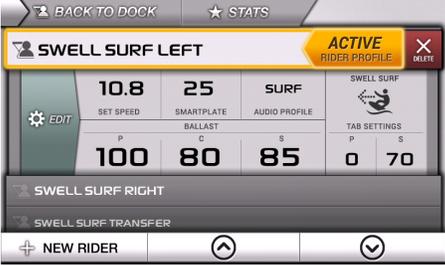
Touch Point	Description	Screen View
1 – Stereo	Opens the Stereo screen. Other multimedia options and video viewing screens are accessed from this screen. When held down for 2-3 seconds while on the home screen, the active stereo is muted.	
2 – Engine Temp	Displays the engine temperature when touched and held.	



Touch Point	Description	Screen View
3 – Set speed+/-	Interactive speed control adjustment by touching the + and – icons (GPS Speed Control ON mode).	
4 – Fuel Level	Displays the fuel level in percent when touched and held.	
5 – Fuel/Run Time	Displays an estimated engine run time using current fuel level when touched and held.	
6 – Autowake Patented Technology*	Autowake will control the ballast to attempt to achieve and maintain a set pitch and roll (determined by the rider profile and the currently selected surf side).	
7 – Camera	Activates the camera to view the current rider in action.	

*AutoWake: U.S. Patent No. 8,798,825 and other patents pending. See www.skierschoice.com/patents

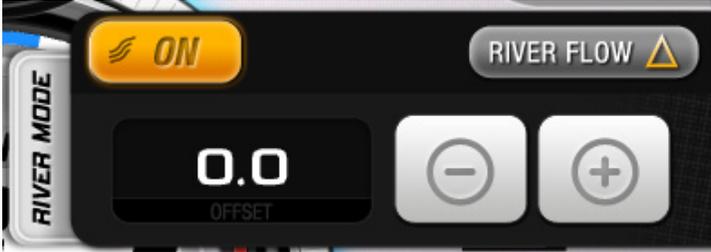


Touch Point	Description	Screen View
<p>8 – Rider Profile</p>	<p>Touch when the name (not the time) is displayed, and the rider profile page will appear to show preferred settings for that rider.</p>	
<p>9 – Show Rider Name / Time</p>	<p>Interactive touch toggles from the rider's name to the rider's time. When the name is touched, the Profiles page is displayed.</p>	
<p>10 – Save Settings</p>	<p>Allows the saving of the current settings to the current profile or a new profile.</p>	
<p>11 – Ballast Settings</p>	<p>Displays the current ballast fill levels.</p>	
<p>12 – GPS Speed Control</p>	<p>Interactive touch toggles from ON to OFF mode. (Speed adjustment with Set speed +/-.)</p>	



Touch Point	Description	Screen View
13 – Engine Oil Pressure	Displays the engine oil pressure when touched and held.	
14 – Swell Surf	Interactive pop-up including toggles for Swell On/Off, Port and Starboard ballast settings. Use the directional icons to select either Port or Starboard. Use Profiles to make adjustments to the surf wave.	 <p data-bbox="808 926 1523 1031">Swell does not activate if Auto is active. Swell Surf will only engage when Cruise is on and your set speed is between 7 mph and 12 mph.</p>
15 – Boat Battery	Displays the battery voltage when touched and held.	



Touch Point	Description	Screen View
<p>16 – River Mode</p>	<p>Interactive touch pop-up toggles from ON to OFF and automatic River Flow settings.</p>	 <p>River Mode is a user interface for estimating both upstream and downstream river current without the use of a paddle wheel. The River Flow UP/DN icon switches back and forth during the turns as you turn against or with the current. The river current estimate value will be added to (downstream) or subtracted from (upstream) the base speed set point and should deliver a reasonably consistent speed over the water. If River Mode is turned off, the set speed will track the normal set speed regardless of direction.</p>
<p>17 – Water Temp</p>	<p>Displays the current temperature of the water when touched and held.</p>	

Autowake

Autowake is a system that will manipulate the ballast levels in order to achieve and maintain the best possible wake for surfing and wakeboarding. Using an inclinometer (a device that measures angle of pitch and roll), the boat will orient itself for the best boating experience.

When a rider profile is active, Autowake will activate once the ballasts are filled to their profile-defined levels, cruise is ON and the set speed is between 7 and 26 mph.

Changes to the pitch and roll set points will be saved to the active rider profile under the currently selected surf side. Each rider can have differing set points for Surf Port, Surf Starboard and Wake.

Touch the Autowake tab on the left side of the screen:





Touch Autowake Off and the following screen will appear:

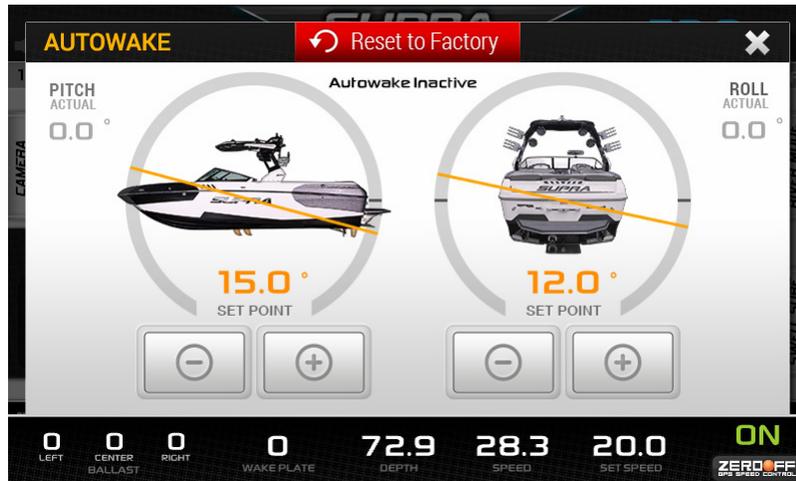


Autowake will remain inactive while the ballasts fill. If Autowake is active, achieved or in countdown, it will return to inactive if a manual ballast switch is used or if the speed / cruise set speed is not between 7 and 26 mph. If the display is powered off, Autowake will be off when the display is powered back up. Touch Confirm and a screen similar to the following will appear:



Touch View, and the following screen will appear:





The actual Pitch and Roll set points will be displayed in the upper corners. Adjust the set points with the + and – buttons. Changes will be saved to the active rider profile.

To reset all Autowake set points for the active profile to the factory defaults, touch Reset to Factory.

Touch the X in the upper right corner to be returned to the Home screen.

GPS

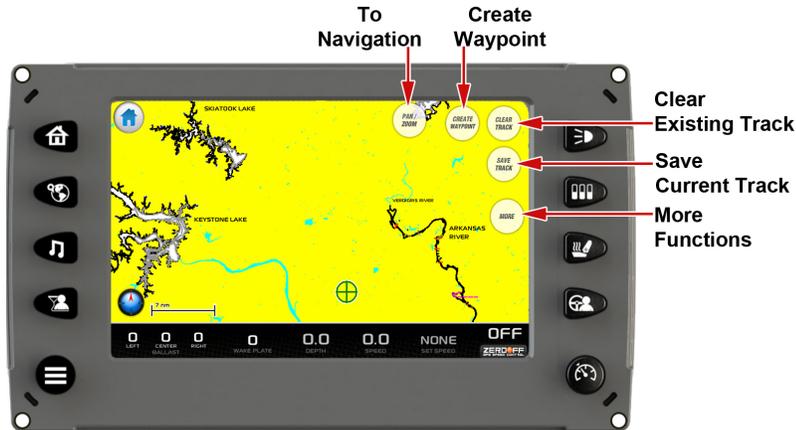
The GPS screen can be accessed by pressing the GPS  Quick Access Key.

The functions on the GPS are handled through touch points on the screen. The touch points change depending upon which view of the screen is showing.



To see more options, touch **[TRACKING]**. The Tracking Menu is displayed on the next screen.





Touch **[PAN/ZOOM]** to return to the previous view.

Touch **[CREATE WAYPOINT]** to add a waypoint to the map. A keypad is displayed to type the name (10 alpha character limit). When finished typing the name touch **[DONE]**.

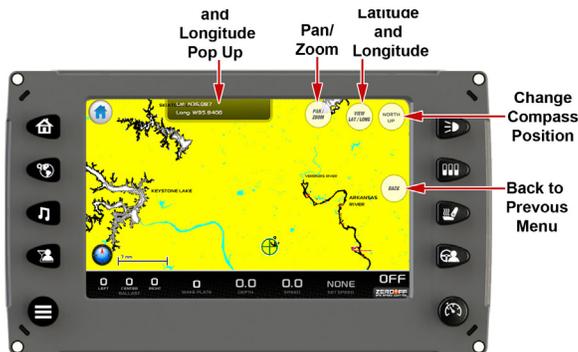


The waypoint is now displayed on the map represented by an anchor icon. This anchor icon can be changed to another icon in the Waypoint Manager (for more information on the Waypoint Manager, see GPS Settings under the Settings Menu).

Touch **[CLEAR TRACK]** to clear currently recording track. This action will restart the track recording from the current position of the boat.

Touch **[SAVE TRACK]** to save the currently recorded track. This action will save the currently recorded track from where the recording started to the current position and restart the track recording from the current position of the boat.

Touch **[MORE]** to view latitude and longitude of the current position of the boat and change the compass to desired position (choices are North up or Course up).



Media

The Stereo screen can be accessed by pressing the Stereo  Quick Access Key.



Stereo Display - Touch Commands

Touch Point	Description
	Volume : Press  to increase the volume. Press  to decrease the volume.
	Previous/Tune: Press  to go to the closest saved station to the left. Press  to tune the station to the left.
	Next/Tune: Press  to go to the closest saved station to the right. Press  to tune the station to the right.
	Station Location: This is a digital representation of the location on the dial for the chosen station.
	Scan: Press this button to scan to stations that have the strongest signal strengths.



Touch Point	Description														
	<p>Band Selector: Choose between FM, AM or Weather.</p>														
	<p>Preset Stations: This list contains six of the previously saved favorite stations. Hold your finger on the slot to save the current station as a preset station.</p>														
	<p>Favorites List – Touch to alternate between List A and List B. This provides 12 pre-saved favorite stations.</p>														
	<p>Tune Mode – Choosing FREQ will allow the scanning of all stations on the dial. Choosing PRESET will only scan the saved favorite stations on the dial.</p>														
	<p>List – Touch this point to expand the following list of icons:</p> <table border="1" data-bbox="565 852 1503 1430"> <thead> <tr> <th data-bbox="565 852 755 900">Icon</th> <th data-bbox="760 852 1503 900">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="565 907 755 995">  </td> <td data-bbox="760 907 1503 995">Switches to the AM band.</td> </tr> <tr> <td data-bbox="565 1001 755 1089">  </td> <td data-bbox="760 1001 1503 1089">Switches to the FM band.</td> </tr> <tr> <td data-bbox="565 1096 755 1184">  </td> <td data-bbox="760 1096 1503 1184">Displays the Weather band.</td> </tr> <tr> <td data-bbox="565 1190 755 1278">  </td> <td data-bbox="760 1190 1503 1278">Displays the Bluetooth utility.</td> </tr> <tr> <td data-bbox="565 1285 755 1373">  </td> <td data-bbox="760 1285 1503 1373">Displays the Auxiliary Input display to choose between three channels.</td> </tr> <tr> <td data-bbox="565 1379 755 1430">  </td> <td data-bbox="760 1379 1503 1430">Displays the iPod/USB screen.</td> </tr> </tbody> </table>	Icon	Description		Switches to the AM band.		Switches to the FM band.		Displays the Weather band.		Displays the Bluetooth utility.		Displays the Auxiliary Input display to choose between three channels.		Displays the iPod/USB screen.
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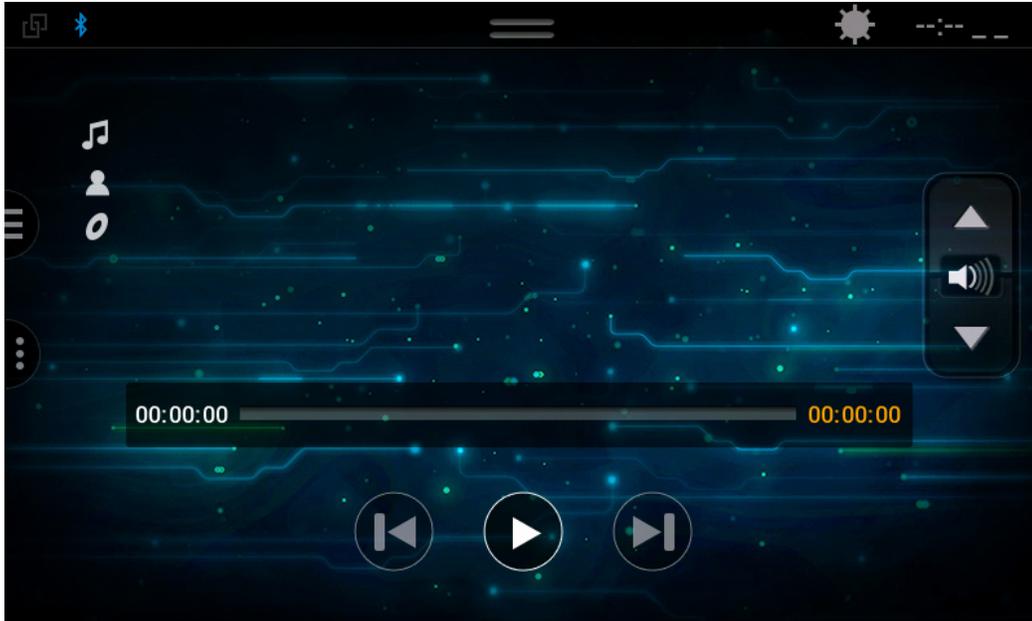


Bluetooth

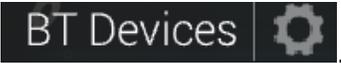
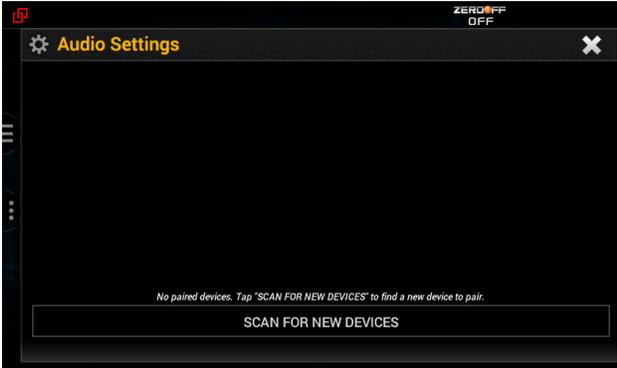
To display the Bluetooth utility, on the left side of the screen, touch  then



The following screen will display:



Follow these steps to connect to Bluetooth:

Step	Action
1	<p>Touch the  on the left side of the screen, then touch . The following screen will appear:</p> 

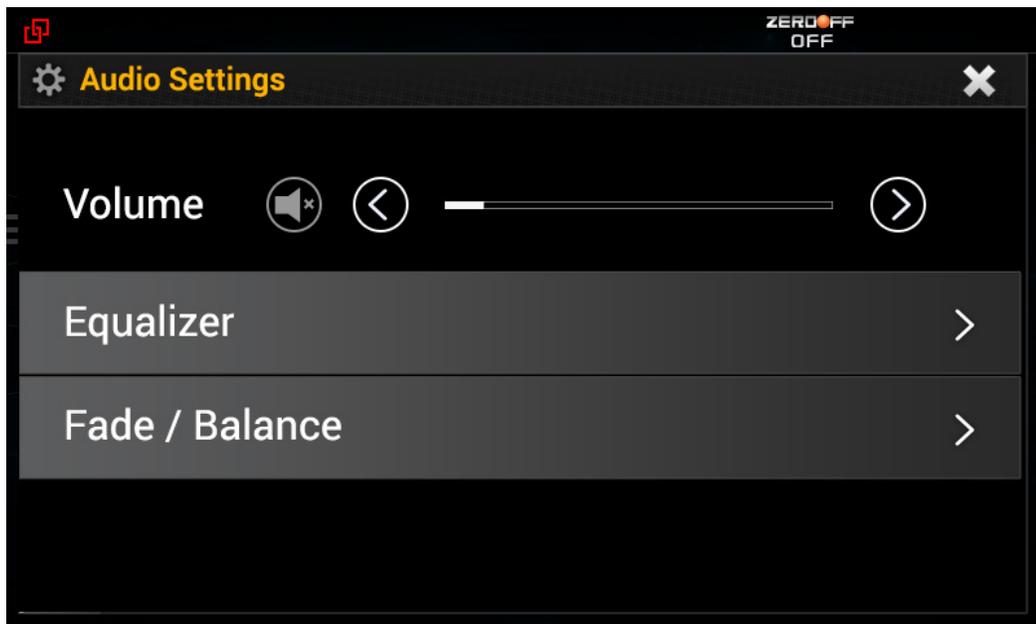


Step	Action
2	Touch Scan for New Devices to discover available Bluetooth compatible sources. If sources are found, they will appear on the screen.
3	Touch the device to which the Supra will be paired. A Pairing Requested message will appear. Touch the green check mark to pair or the red X to cancel. If successful, a paired message will appear on the screen.
4	Once paired, the source's media files will be viewable and playable on the first screen presented in this section.

Sound Control

The Sound Control section allows the adjustment of the following selections:

- Volume
- Equalizer
- Fade / Balance

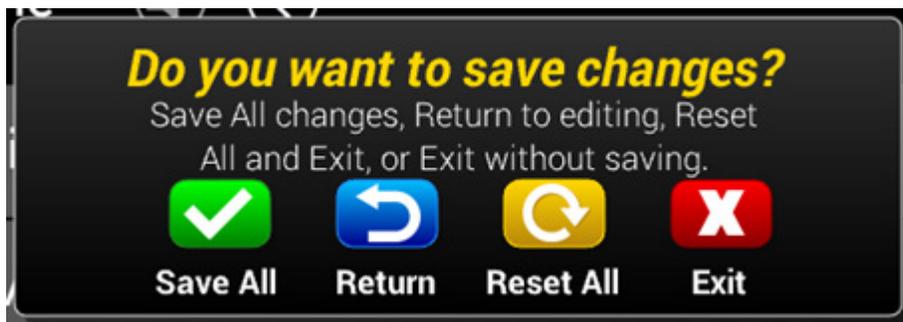


Section	Description
Volume	<p>Touch the left or right arrows to adjust the volume. Touch the  icon to mute or unmute the stereo.</p>
Equalizer	<div data-bbox="537 447 1073 768" data-label="Image"> </div> <p>Touch the + or – buttons (or slide your finger up or down) to adjust the settings. Touch the Presets button and the following screen will appear:</p> <div data-bbox="537 951 1073 1272" data-label="Image"> </div> <p>Eight preset sound settings (Rock, Electro, Jazz, Dance, Classic, Normal, Acoustic and Pop) are available for selection. Touch any square to select settings that are more instrumental (toward the left side), more Bass (toward the bottom), more vocals (toward the right) or more Treble (toward the top).</p> <p>Touch the + or – buttons to adjust the volume.</p> <div data-bbox="537 1598 623 1682" data-label="Image"> </div> <p>resets the selection.</p> <div data-bbox="932 1598 1018 1682" data-label="Image"> </div> <p>saves the selection.</p> <p>Touch EQ to be returned to the Equalizer screen.</p>



Section	Description
<p>Fade / Balance</p>	<div data-bbox="516 338 1044 653" style="border: 1px solid black; padding: 5px;"> </div> <p>This screen allows the movement of the sound left or right, forward or aft.</p> <p>Touch the circle in the middle and slide to your preference. The adjusted screen will appear as follows:</p> <div data-bbox="516 909 1044 1224" style="border: 1px solid black; padding: 5px;"> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div data-bbox="516 1297 602 1381" style="border: 1px solid black; padding: 5px;"> </div> <div data-bbox="609 1350 893 1381">resets the selection.</div> <div data-bbox="906 1297 992 1381" style="border: 1px solid black; padding: 5px;"> </div> <div data-bbox="998 1350 1279 1381">saves the selection.</div> </div>

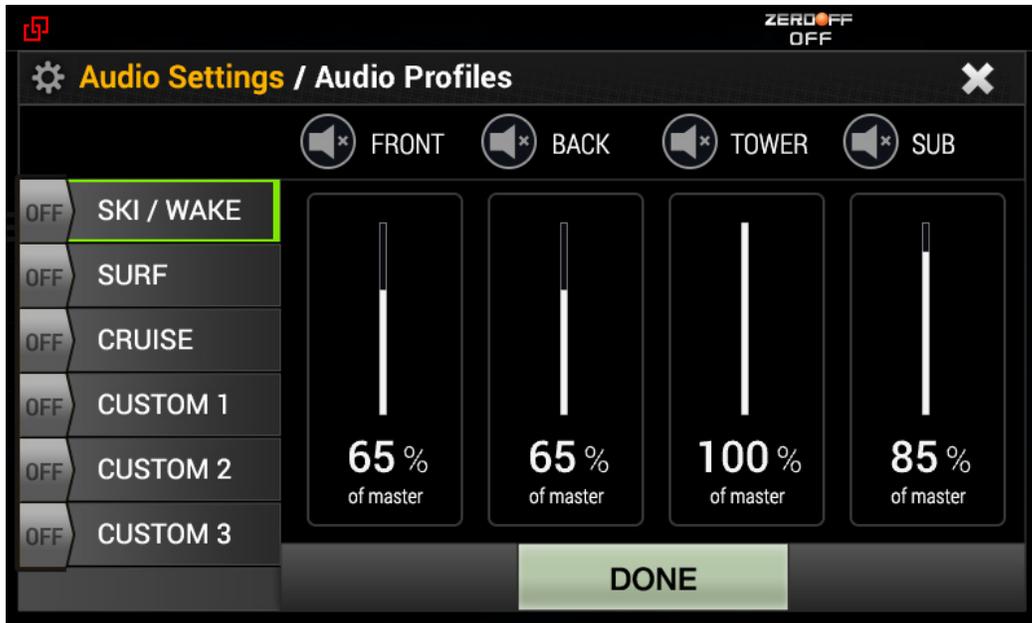
If the X is touched before saving the changes, the following screen will appear:



Touch Save All, Return, Reset All or Exit (discards changes).



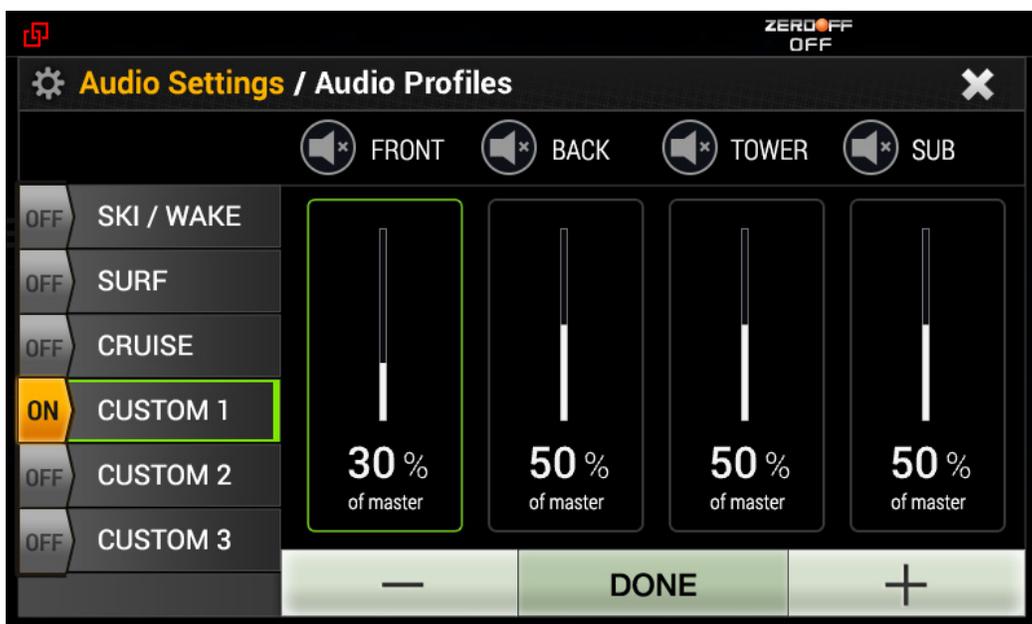
Audio Profiles



The Audio Profiles screen displays three preset audio profiles and the adjustment of up to three custom profiles.

Touch the Off button beside the desired profile to turn it On.

To adjust the custom profile, touch Custom 1, 2 or 3 and the following screen will appear:



Touch the – and + keys to adjust the settings, and touch Done to save. Touch the OFF button to turn that audio profile ON.

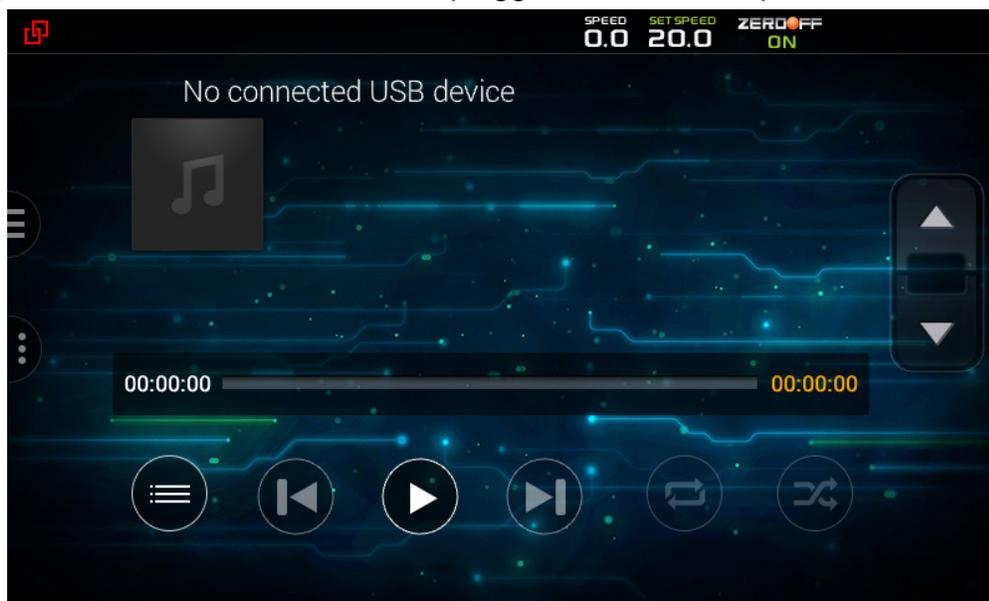
Auxiliary

The system provides up to three auxiliary jacks to access media files on alternate devices. Using the auxiliary cables will typically allow your device's battery to last longer than using Bluetooth and has a slightly improved sound quality over Bluetooth.

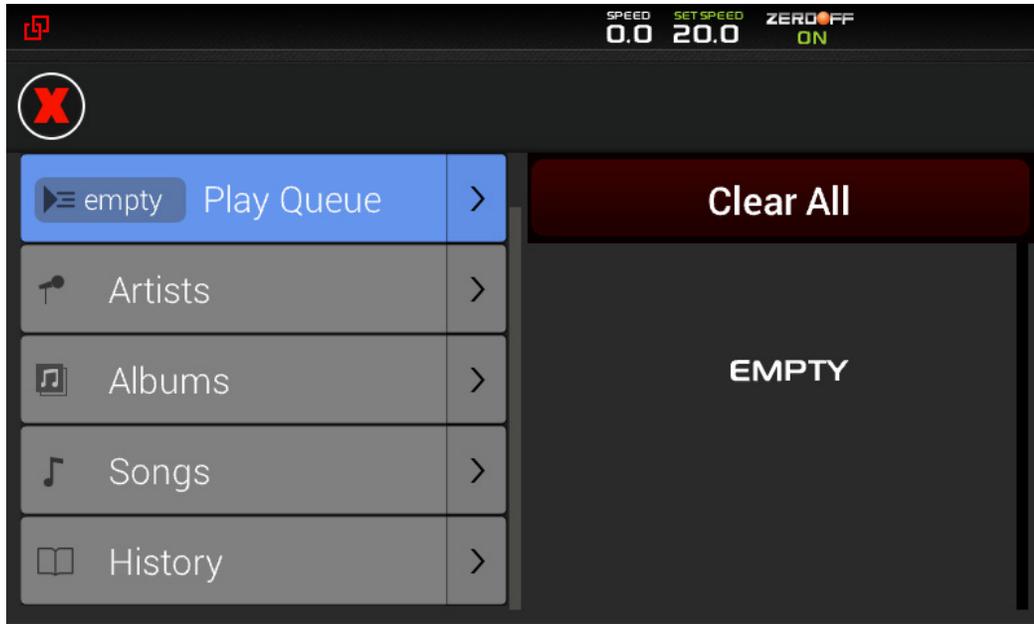


iPod/USB

The system allows the use of an iPod plugged into the USB port.

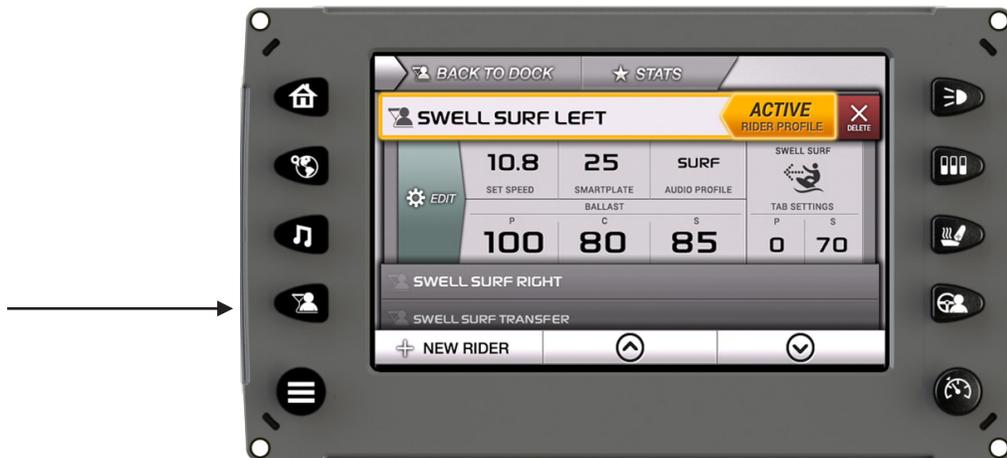


Once the device is plugged in, touch the  icon, and the following will display:



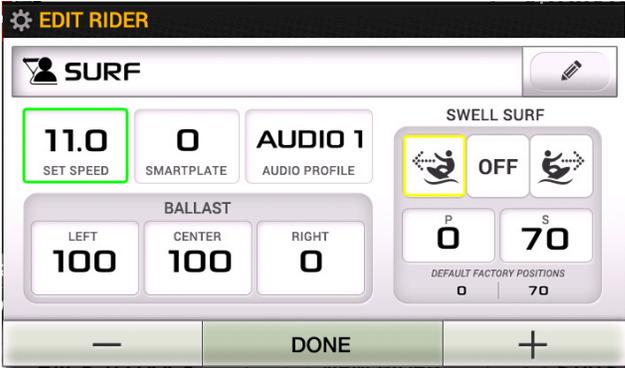
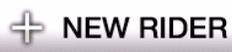
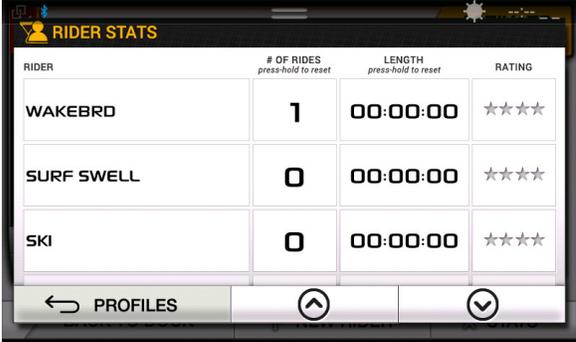
Media files may be selected by Queue, Artists, Albums, Songs or History. Once selected, the screen will revert back to the first screen shown in this section.

Profiles



Touch Point	Description
	Deletes (after confirmation) the currently displayed Rider Profile.



Touch Point	Description
	<p>Activates the currently displayed Rider's profile, and changes the boat settings to align with the displayed settings.</p>
	<p>Displays the Edit Rider screen:</p>  <p>Touch each field to be edited, and adjust the settings with the – and + buttons. Touch Done when complete.</p>
 	<p>Scrolls through the saved profiles.</p>
	<p>Returns back to the Home screen.</p>
	<p>Displays a keyboard to type the new rider's name. Touch Done, and then Edit to adjust the settings.</p>
	<p>Displays the Rider Statistics screen:</p>  <p>To reset the number of rides, press and hold, and the number will reset to 0.</p>



	<p>To reset the length, press and hold, and the time will reset to 00:00:00.</p> <p>To provide a rating, touch the stars for each desired star to be lit up.</p> <p>Touch Profiles to return to the Profiles screen.</p> <p>Touch the UP and DN arrows to view additional statistics.</p>
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Lights

The Lights screen is accessed by pressing the Lights  Quick Access Key. On this screen the following lights can be turned on and off:

- Navigation Lights
- Anchor Lights
- Storage Lights
- Dome Lights
- Docking Lights
- Tower Lights
- Floor Lights
- Mid-Level Lights
- Speaker Lights
- Underwater Lights/Strobe
- All Off/All On

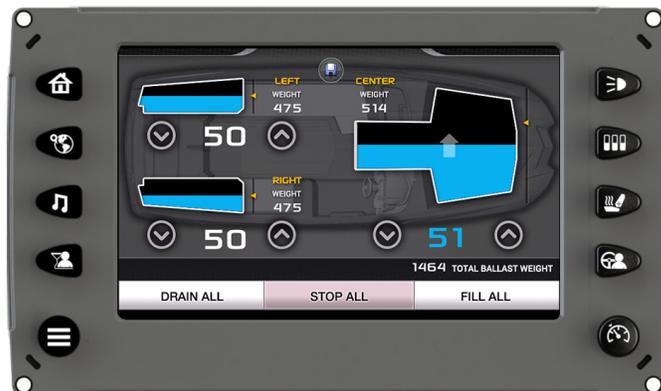


NOTE: If the cell is gray, this indicates the lights are OFF. If the cell is green, this indicates the lights are ON.



Ballast

The Ballast screen can be accessed by pressing the Ballast  Quick Access Key. This screen displays the current state of the ballasts and is interactive for immediate settings.



To adjust the Ballast settings slide finger up the tank to the desired level or tap the **UP** or **DOWN** arrows below the tank. As an example, the illustration shows the Center tank filling to achieve 51 percent and the left and right ballasts have achieved 50 percent tank capacity.

The following functions can also be accomplished from this screen:

- **FILL ALL** – touch to fill all the ballasts
- **DRAIN ALL** – touch to drain all the ballasts
- **STOP ALL** – touch to stop all filling or draining activity
- **SAVE** – touch to save the current settings to the current profile or a new profile
- **X** – touch to exit the current screen

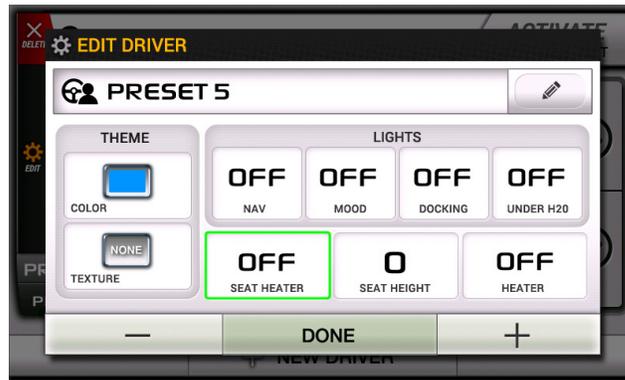
Comfort

The Comfort screen can be accessed by pressing the Comfort  Quick Access Key. On the Comfort screen, touch a cell to activate. Touch it again to change the setting or use the arrows. The following comfort settings can be made if the option is installed on your boat package:

- Heater – HIGH/LOW/OFF
- Seat Heater – ON/OFF
- Seat Height – UP/DOWN

These settings can also be set for specific boat drivers through the driver presets.





Follow the directions below to set the Driver's Presets.

Step	Action
1	Touch Edit, then  to name the driver.
2	Touch Theme, and if a different color is desired, utilize the + and – buttons to scroll through the available colors.
3	Touch Texture, and if a different texture is desired, utilize the + and – buttons to scroll through the available textures.
4	To set a preference on lights, seat heater or heater for this driver, touch the desired square and utilize the + key to turn them On or Off.
5	To adjust the seat height, touch that square and utilize the + key to adjust.
6	Touch Done when complete.

Delete Driver Preset

To delete a Driver Preset, press the Driver Preset  Quick Access Key. Touch  beside the desired preset to delete, and confirm the deletion.



Main Settings Menu

The Main Menu screen can be accessed by pressing the Main Menu  Quick Access Key. This screen displays engine statistics and interactive search, diagnostics and settings.



NOTE: Some settings require a dealer code for access.

Function	Description/Action
User Settings	Allows you to customize the display options for ambient light and brightness, set US or metric units and other settings.
Engine Diagnostics	Displays a list of engine fault codes and descriptions; on some engines, corrective action will be shown.
GPS Utilities	Contains options to set up track and position, chart and time and waypoint manager. Also displays satellite status.
System Information	Provides information about the software version.
Ballast/Smartplate Settings	Displays ballast times and calibration, smart plate settings and swell assisted settings.
Audio Settings	Displays the settings for auto volume intensity, notifications, wireless remote pairing, Bluetooth, audio profiles and audio firmware.
PDM Diagnostics	Displays short circuits, open circuit, over current, in/out of range and faults within the system outputs, switch inputs, analog inputs and CAN communication.
Dealer Settings	Contains the ability to change the boat model, radio option and the appearance of audio options within particular boat zones.



User Settings

On the Main Menu screen, touch **[USER SETTINGS]** to access the User Settings screen. The User can set viewing preferences for the display.



To edit the settings, touch the field to the right of the label or touch  or  arrows to adjust the settings. Touch **[Back]** to save the settings and return to the Main Menu screen.

Function	Description/Action
Auto Backlight	The choices are: Enable or Disable. NOTE: Enabling the Auto Backlight will reduce the screen brightness when the Nav Light is ON.
Brightness	Touch and slide finger along the brightness bar to adjust the setting.
Color Scheme	Touch one of the colors to change the color scheme of the display.
Background Texture	Touch one of the background textures to change the texture of the display.
Units	Pull down the arrow and choose either US STD or Metric.
Shutdown Time	Tap  or  to adjust the setting.
Minimum Depth	This allows you to choose a minimum depth (measured from bottom of keel) to give an alarm if the vessel comes into a minimum depth situation. Tap  or  to adjust the setting. Choosing zero turns this option OFF.



Engine Diagnostics

On the Main Menu screen, touch **[Engine Diagnostics]** to access the Engine Diagnostics screen. When choosing this selection, the display queries the engine's ECU and displays feedback on any diagnostic codes that have been activated and stored in the ECU for service needs.



Function	Description/Action
Get Faults	Touch [GET FAULTS] to show the number of active faults and the fault number currently being displayed.
Arrows	The Left and Right arrows at the top of the page scroll through messages.
Diagnostic Message and Description Field	Most common SPNs and FMIs have text for the description stored in the display. If there is no text, then this SPN and FMI must be defined by referring to the engine manufacturer or the SAE J1939 standard.
Source	Indicates the source of the message.
SPN	Suspect Parameter Number - fault code If not translated into text by the display, see the engine manufacturer's literature for the definition of the SPN number.
FMI	Failure Mode Indicator - fault code The FMI is defined by SAE J1939. If not translated into text, see the SAE standard or the engine manufacturer's literature.
Count	Number of messages.
ENG Hours	Number of in-use engine hours.
Corrective Action	Suggested action for correction.



GPS Utilities

On the Main Menu screen, touch **[GPS Utilities]** to access the GPS Utilities screen. The GPS Utilities includes the following:

- Depth and Position
- Waypoint Manager
- Chart and Time
- Track Manager
- Satellite Status



Depth and Position Settings

On the GPS Utilities screen, touch **[Depth and Position]** to access the Depth and Position screen. This feature allows you to define the amount of detail to display for longitude and latitude information on the GPS map and depth display.



Waypoint Manager

On the GPS Utilities screen, touch **[Waypoint Manager]** to access the Waypoint Manager screen.

Waypoints allow you to mark specific locations by latitude and longitude. Once the waypoints are established, the Waypoint Manager allows you to associate an icon with them for identification. You can delete a single waypoint by using the **[Delete]** key or all of them at once with **[Delete All]**. Pressing the **[Go To...]** key displays the GPS screen containing the currently highlighted waypoint.

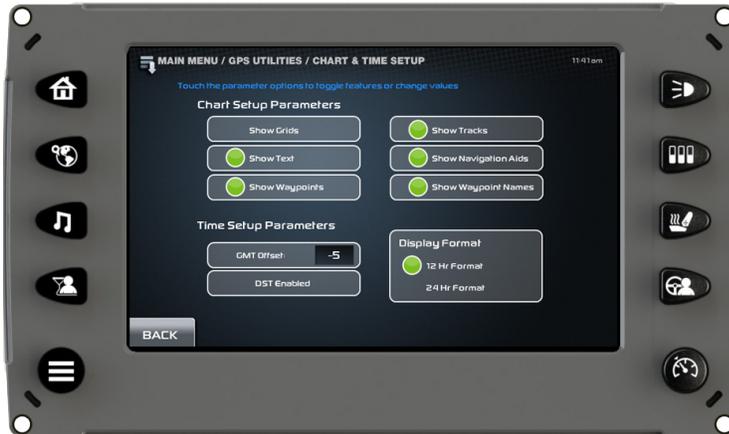


Function	Description/Action
Waypoints	Displays a list of existing waypoints that have been set. Use the [Up] and [Down] keys to highlight the desired waypoint.
Waypoint Title	Edit the waypoint title.
Waypoint Icon	Assign one of four different icons to any of the waypoints listed.
Go To...	Displays latitude and longitude values for the currently highlighted waypoint on the list. When touched, it will jump to the maps application and the location of the selected waypoint.
Delete	Delete a single waypoint.
Delete All	Delete all waypoints at once.



Chart and Time Setup

On the GPS Utilities screen, touch **[Chart and Time Setup]** to access the Chart and Time Setup screen. This menu option allows you to establish viewing options for the GPS Display.



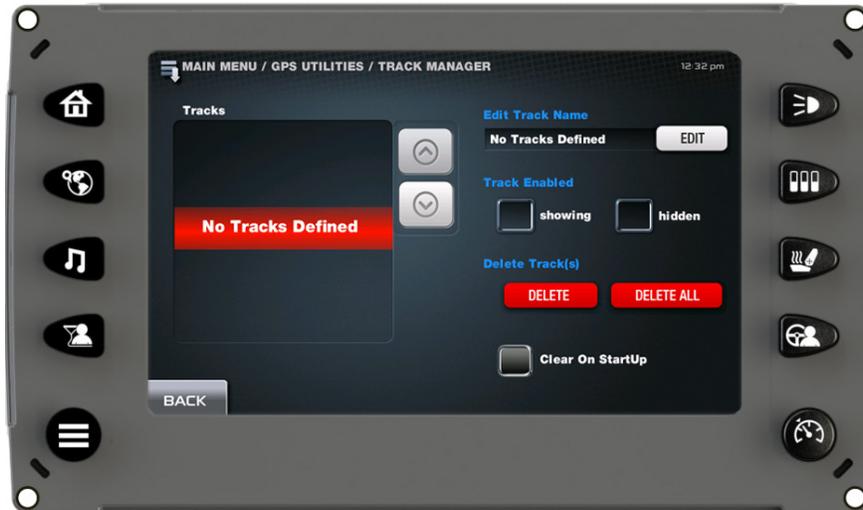
Function	Description/Action
Chart Setup Parameters	Touch each selection to choose features activated on the GPS screen. A green dot displays by the active features. Touch the selection to toggle on or off.
Time Setup Parameters	Select correct time zone and clock mode for either 12-hour or 24-hour time formats. You can also enable or disable DST (daylight saving time) by touching that selection to toggle on or off (denoted by the highlighted green dot).



Track Manager

On the GPS Utilities screen, touch **[Track Manager]** to access the Track Manager screen. Multiple tracks for displaying on the GPS map can be established. The Track Manager allows you to select tracks to show or hide on the map you are currently using. You may **[Delete]** one track or **[Delete All]** tracks at once.

Select **[Clear on Startup]** to erase any non-saved tracks.



Satellite Status

On the GPS Utilities screen, touch **[Satellite Status]** to access the Satellite Status screen. This screen is an information-only screen that displays the location of detectable satellites.



System Information

On the Main Menu screen, touch **[System Info]** to access the System Information screen. This information-only screen provides the following:

- Application version and part number
- Operating system version and part number
- Bootloader version and part number
- Software version
- PDM Software Version Address(es)



Ballast/Smartplate Settings

On the Main Menu screen, touch **[Ballast/Smartplate Settings]** to access the Ballast/Smartplate Settings screen. This screen provides default fill times for ballasts and default settings for the Smartplate.

To access the edit points of the Ballast and Smartplate settings, with the cell highlighted, touch the **[Up]** or **[Down]** arrows to change the setting.

NOTE: The **[Crossover Point]** defaults to 50 percent of your set speed. This is the point at which the Smartplate will be automatically driven to the active profile set point. If no set point is active, the Smartplate will be driven to the **[Smartplate Up]** setting (default 50 percent).

The **[Smartplate Down]** setting (default 100 percent) is the position that the Smartplate is driven to below the crossover setting.

Having the Smartplate deployed to 100 percent when the boat is at rest and then automatically retracting to the Smartplate set point at the crossover is what helps the boat keep the bow down and on plane during acceleration.





If additional time is required to empty the Ballast tanks, add percentage to the **[Ballast Drain Time Adder]** to increase the drain time. Or set the **[Ballast Drain Time Adder]** to 0 percent for no additional time.

If enabled, the **[Supra Launch System]** will assist in getting the craft to plane quicker when the Swell is turned off.

The **[Ballast Calibration]** normally is not changed.

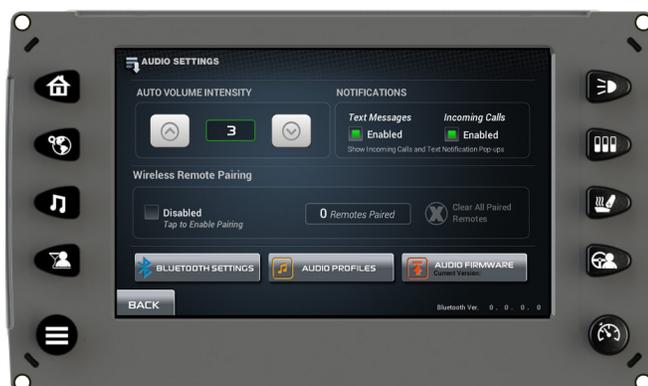
The **[Ballast Calibration]** function recalibrates the ballast level displayed to read Full (100 percent) or Empty (0 percent). The Ballast display levels are based on time to level calculations.

For example: The driver has filled the ballasts to Full and then installed a new version of software. This new version of software would default the Ballast Levels back to Empty (0 percent). Since the driver knows that the boat has Full ballasts, the driver can use this calibration feature to set the display level to Full (100 percent).

Touch **[Save]** to save changes.

Audio Settings

On the main Menu screen, touch **[Audio Settings]** to access the Audio Settings screen. This screen displays auto volume intensity, notifications, wireless remote pairing, Bluetooth settings, audio profiles and audio firmware settings.



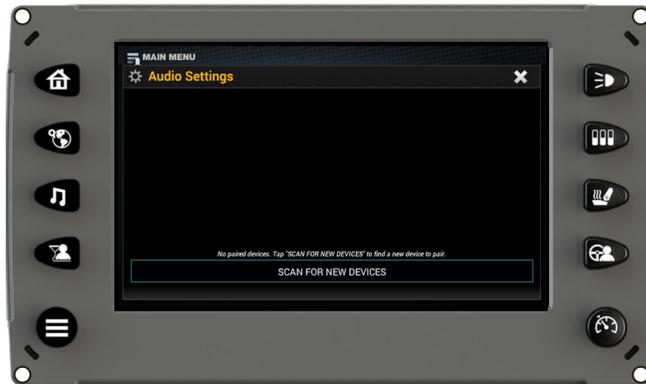
The **Auto Volume Intensity** will automatically increase the volume of the audio when the engine RPMs increase. If set to 0, the volume will not increase automatically. If set to 3, the audio will increase at a faster rate than a 1 or 2 setting.

To display or hide **Notifications** of incoming calls and texts, touch the Enabled/Disabled boxes under each category.

To enable or disable **Wireless Remote Pairing**, touch the Enabled/Disabled box in that category. Then touch any key on the remote to begin the pairing process. The field to the right will show the number of remotes that have successfully paired with the system. To **Clear All Paired Remotes** touch the X in the circle.

Bluetooth Settings

The Bluetooth Settings screen will allow the pairing of the system with other nearby devices that have Bluetooth enabled and turned on.



Touch the Scan for New Devices button to discover a new device. If a new device is found, touch the name of that device to pair it with the system.

Audio Profiles

See the [AudioProfiles](#) section detailed above.



Audio Firmware

The Audio Firmware screen will provide a method by which the audio firmware files may be updated.



Insert a USB flash drive with the update files loaded into one of the available USB slots on the craft. Touch the green check mark to upload the files.

PDM Diagnostics

On the main Menu screen, touch **[PDM Diagnostics]** to access the PDM Diagnostics screen. The screen displays short circuits, open circuit, over current, in/out of range and faults within the system outputs, switch inputs, analog inputs and CAN communication.



Touch the **[PDM2]** or **[PDM3]** touch command to view alternate screens. Touch the **[Back]** Touch Command to return to the main menu.



PDM2 Diagnostics



PDM3 Diagnostics



Troubleshooting

General Troubleshooting Guide

Display appears not to work or doesn't come ON.

1. Display could be in *sleep* mode. Touch a key on the keypad to activate the display.
2. Check for loose connections at battery and display unit.
3. Check for reversed polarity on the power connections.
4. Verify battery has a minimum voltage of 6 Volts.

Display resets or goes OFF when starting engine.

1. Check display supply wires are connected properly to battery.
2. Verify battery is charged properly.
3. Check battery for efficient starter current.

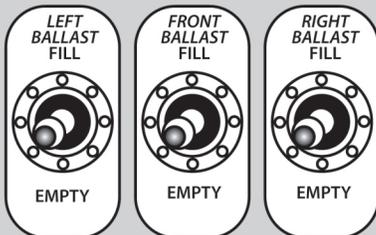
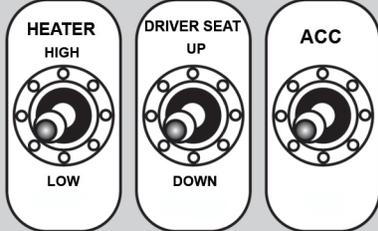
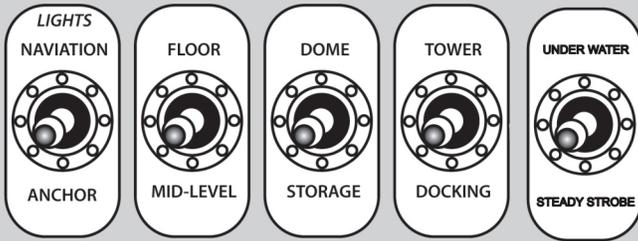
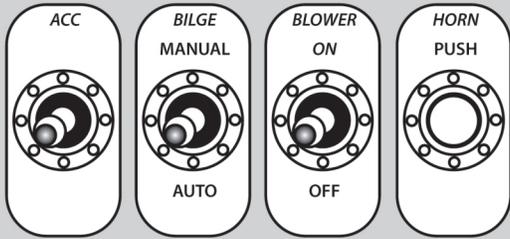
Display has no backlight.

Contact your Supra service center.

Display has no keypad backlight.

Contact your Supra service center.





BILGE SWITCH

Provides the ability to manually turn on the bilge pump.

BLOWER SWITCH

Provides power to the engine compartment blower to ventilate potentially dangerous fumes from the engine compartment.

HORN BUTTON:

When pressed the horn will sound. See the Horn/Whistle Signals section for more information.

NAVIGATION LIGHTS SWITCH Provides power to the bow light, and anchor light. The three positions of this switch are up (navigation lights), center (off), and down (anchor light).

TOWER LIGHTS SWITCH

Provides power for the tower underside LED lights (up) or forward docking lights (down)

FLOOR/MID-LEVELS

Provides power to interior lighting for the lower courtesy lights (up) or cup holder and tower base lights (down)

DOME/STORAGE

Provides power to the tower dome (up position) or lighting in the storage areas in the boat (down)

UNDERWATER/STEADY STROBE

If equipped, turns on the underwater lights, or steady strobe.

HEATER

If equipped, turns on the heater blower.

DRIVER SEAT

Positions the driver's seat up or down for the best visibility.

ACC

Open Circuit

LEFT BALLAST SWITCH

Provides power to the left (port) ballast bag. The three positions of this switch are up (fill), center (off), and down (empty)

FRONT BALLAST SWITCH

Provides power to the center ballast. The three positions of this switch are up (fill), center (off), and down (empty)

RIGHT BALLAST SWITCH

Provides power to the right (starboard) ballast bag. The three positions of this switch are up (fill), center (off), and down (empty)

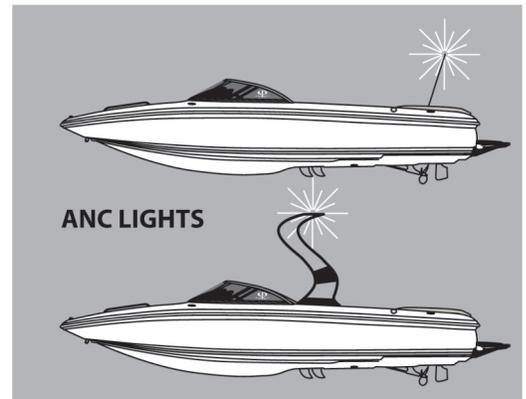
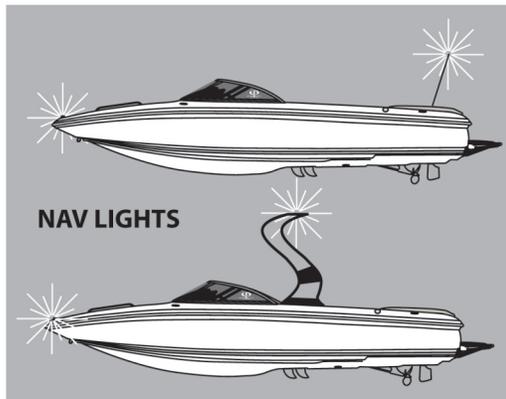
NOTICE

If any lights, bilge, stereo, courtesy lights, or accessories fail to operate, press the appropriate circuit breaker located under the switch.

NAVIGATION LIGHTS

When underway during night time operation, set the switch in the NAV position to activate all of the running lights.

When docked or at anchor, set the switch, in the ANC position to activate only the pole light.



*Switch configuration may vary slightly based on options. If you have any questions regarding operation, please contact your dealer or Skier's Choice, Inc.



Ignition Switch



Located on the port side of the dashboard, the ignition switch has four positions. In the vertical position the ignition is "OFF". In the OFF position, only the blower and bilge switches are powered.

One position counterclockwise is the "ACC" position. This will power the dash switches.

One position clockwise is the "ON" position and this will power the switches and energize the motor.

The full clockwise position is the "START" position.

NOTE: All electrical equipment should be turned off when the boat is in storage.

Blower Switch



The blower switch activates the blower motor. The primary function of the blower fan is to remove any fumes from the bilge area. The blower also draws fresh air into the engine compartment.

Never depend solely on the blower to eliminate dangerous fumes. Before starting the engine, always open the motor box to check if fumes are present. Switch on the blower fan a minimum of four minutes before starting the engine.

NOTICE: If the blower fails to operate, reset the circuit breaker. If the blower still does not operate, notify your Supra dealer.

DANGER

Failure to operate the blower in accordance with the Coast Guard Recommendation could result in an explosion.

Horn Button



The Horn Switch is located on the starboard switch panel. Sound the horn by depressing the button.

Horn/Whistle Signals

One Long Blast:

Warning Signal (Coming out of slip)

One Short Blast:

Pass on my Port Side

Two Short Blasts:

Pass on my Starboard Side

Three Short Blasts:

Engines in Reverse

Four or More Blasts:

Danger Signal

1. OVERTAKING / PASSING: Boat being passed has the right-of-way. KEEP CLEAR.
2. MEETING HEAD-ON: Keep to the right.
3. CROSSING: Boat on the right has the right-of-way. slow down and permit him to pass.



Liquid Lead Ballast System

The Liquid Lead* Ballast System in your boat is an electronically controlled ballast system that can be operated from the driver's seat. The system can be controlled by using the ballast switches or through the Supra Vision Dash. The Supra Vision Dash allows for stored preset ballast levels (see "User Preset Screen" in the Vision System section of this Owner's Manual) for easy rider setup. The manual switches for this three position system are located in the switch panel directly below the shifter mechanism.

The Ballast System in your boat is an integrated and logically controlled system. At the heart of the system is a series of reversible pumps that use impellers to pump water in and out of the ballast system. The controller for the system runs the pumps an appropriate amount of time to fill and to empty the bags.

 **CAUTION** When bags begin to vent, shut off!

 **WARNING** Do Not overfill ballast bags!

*Liquid Lead is a marketing name. Supra Boats do not contain lead ballast

Filling the System-In normal operation of the system, flipping one of the switches to "Fill" will start the system filling the associated ballast. The ballast gauge on the Supra Vision system will turn green. The pump will automatically turn off when the appropriate amount of time to fill the system has been reached. The light on the switch will still be luminated as it is in the "Fill" position, but the pump will not be running. The ballast gauge on the Supra Vision system will turn yellow. The switch should be turned back to the "off" position when the pump stops running.

Emptying the System-In normal operation of the system, flipping one of the switches to "Empty" will start the system emptying the associated ballast. The ballast gauge on the Supra Vision system will turn green. The pump will automatically turn off when the appropriate amount of time to empty the system has been reached. The light on the switch will still be luminated as it is in the "Empty" position, but the pump will not be running. The ballast gauge on the Supra Vision system will show empty. The switch should be turned back to the "off" position when the pump stops running.

Ballast Pump Impellers- The pumps that fill and drain the ballast system use an impeller. Your Supra ballast impeller uses the latest polymer technology in an effort to have the longest service life possible. The impellers are a wear item and different use patterns, water types, debris, etc. can greatly affect the service length of the impeller. As the impellers wear, the amount of water that is pumped into and out of the ballast system is reduced. The Vision System does have provision for adjusting fill and empty times to accommodate decreased efficiency due to impeller wear or changing to difference sized bags (See Vision Dash "System Settings" For more info). Running the pumps without water will greatly accelerate the wear and prolonged running of the pumps without water will damage the impeller to the point that they will require immediate replacement.

Note: Impellers are a wear item and not covered by warranty. Ballast System Utilities- It is not recommended to change any of the ballast configuration that are found under the "Utilities" menu on the Vision Dash unless specifically directed to do so by your Authorized Supra dealer. Changing these values may negatively affect the ballast system or may make the system fail to work all together.



Ballast Trouble Shooting Guide

Problem	Possible Cause	Action	Correction
Pump will not turn on	Ballast power wires not connected to PDM.	Check ballast power wires PDM.	Connect power wires to battery PDM.
Pump will not turn on	Ballast breaker is tripped	Check 60 amp ballast breaker at the Engine Compartment.	Reset ballast breaker at battery
Pump will not turn on	System needs reset	Check power to all areas	Turn power off to the system at the breaker and then back on and retry
Pump turns on, but does not pump water	Pump not priming	(1) Water intake ball valves are not open (2) Kink in hose (3) Impellor Worn	(1) Open ball valves (2) Check hoses for kinks and straighten as needed (3) Check hose connections and tighten if loose. (4) Replace Impeller

Supra Ballast Fill Times

Boat Model	Front Ballast	Rear Ballast Time
SR- w/Standard Flex	13.5 minutes	10.5 minutes
SA - w/Standard Flex	14.0 minutes	10.5 minutes
SG- w/Standard Flex	13.0 minutes	11.5 minutes
SE - w/Standard Flex	13.0 minutes	11.5 minutes

Swell Surf & Screen



The Swell Surf System utilizes high-speed rams to adjust 5/16-inch stainless steel blades laser cut and bent to control water turbulence off the rear of the boat's running surface. The specially designed trailing edge of these blades, or flaps as these types of elements are referred to in a fluid dynamics, create a vortex-effect behind the boat resulting in specific wave shapes. Different angles of deployment of the blades create custom effects in the water turbulence to swell-up surf waves. Swell blades benefit from a shot peen finish, a strengthening process commonly utilized in aeronautical construction, to increase the fatigue life of the piece. The Swell System is mounted and held together by a series of stainless steel through-bolts and stainless brackets for an extremely stable platform for wave making



Ignition Keys



Two ignition keys are provided with the boat. Key entry into the ignition may be difficult due to the boot protector. Please, do not unduly force the key into the ignition. Key tumblers are located vertically, thus the key should be vertical when placed into the switch.

NOTE: Always attach the ignition key to a floating key chain to prevent loss in the water.

Mirrors

The rear view mirror is installed as a standard item. The mirror is adjustable and is not permanently placed so that it may be set for each driver.

- Mirror should always be checked before driving.
- Mirror angle will change with each new driver.



Driver's Seat & Seat Adjustments



The Rise-R Seat is a unique driver seat enhancement. The front edge of the driver's seat cushion lifts up to give the driver a taller sightline.

CAUTION

Be careful of the articulating hinge. Do not place fingers or other objects in the hinge mechanism during use.

The driver's seat may be adjusted forward or backward by moving the lever below the side of the seat. Use body pressure to move the seat to the desired position. Release the lever then check to feel the seat lock into place.

The driver's seat may be swiveled by pressing the button on the side of the seat.

Adjustable Seat Height

To adjust the seat height, use the driver's seat switch on the left hand panel or through the Vision screen using the seat button located on the right side of the monitor.

The driver's seat height should be adjusted to insure proper and safe visibility to operate the boat.

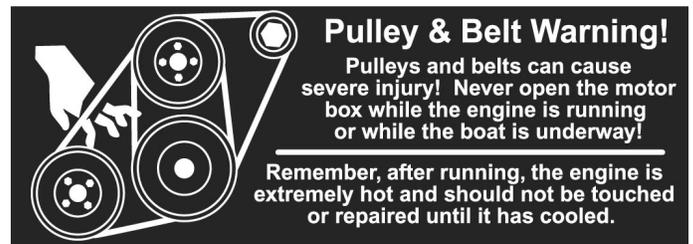
Heated Driver's



Heated Driver's Seat with Vision Panel

V-Drive Engine Compartment

To access the engine compartment, turn latch and pull to raise the center sun deck lid. When the ski lockers and engine compartment lids are closed, the upholstered lids double as a cushioned sun deck.



Fire Extinguisher



A standard United States Coast Guard approved fire extinguisher is provided with your Supra boat. The fire extinguisher is usually located under the observer's seat cushion, however, locations vary by boat. You should know the exact location of your boat's fire extinguisher in case of an emergency.

NOTICE: Refer to the instructions on the fire extinguisher for proper use.

V-Drive Ski Pylon



The ski pylon is to be used to pull skiers. DO NOT use ski pylon to hoist boat! Only use the lifting rings for this purpose.

To use, pull pylon up, twist counterclockwise and push back down into the lock position. To retract, pull pylon up, twist clockwise and push down to storage position.

WARNING

DO NOT mount any Pylon Extension on the rear pylon (located at the rear sundeck).



Supra Tower

If your Supra model has been equipped with a tower, please review this section for details on its usage, maintenance and storage. The cage is designed as a stable tower to enhance wakeboarding. It is NOT intended to be used to tow skiers, barefoot skiers, or multiple wakeboarders. Such use will void any warranties written or implied.

⚠ WARNING

Before use, be sure that all mounting bolts are properly tightened in place.

⚠ WARNING

Be aware of and avoid low overhead objects such as bridges, power lines, overhanging trees, etc.

⚠ WARNING

**LOOSE FITTINGS
MAY RESULT IN
TOWER COLLAPSE.**

**CHECK TIGHTNESS
OF TOWER BOLTS
AND KNOBS BEFORE
EACH USE.**

WLRB0804



⚠ CAUTION

After adjusting the seat, be sure that it has locked into place by pushing forward and backward until it has securely latched. DO NOT attempt to adjust the driver's seat while the boat is moving.

Ensure that seat swivel is locked prior to driving boat. Do not swivel seat while boat is in motion.

Note:

When lowering the tower, the driver's seat should be swiveled so the tower does not rest on the seat. The tower can damage the

Platform



The transom mounted ski platform allows easy access to and from the water for skiers and swimmers.

It is recommended that entries to and exits from the water be made from the platform to avoid accidents. (The fiberglass deck can become slippery when wet)

⚠ DANGER

Shut off the engine when people are on the platform or in the water near the platform.

⚠ DANGER

Exhaust fumes contain carbon monoxide. Direct or prolonged exposure to carbon monoxide will cause brain damage or death.

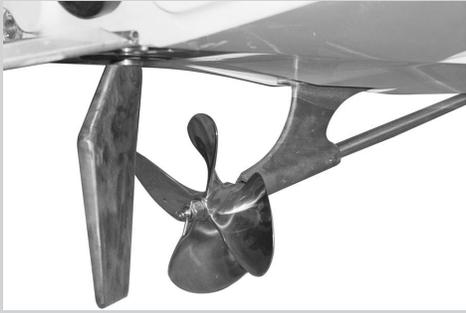
Detachable Bracket



The ski platform is attached to the boat with detachable brackets. The platform may be removed from the boat by 1. Set platform on bracket. 2. Locate lower pin. 3. Locate locking pin through brackets. 4. Swing locking arm over end of pin.



Propeller



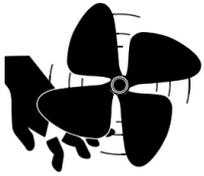
The research and design team at Skier's Choice has carefully explored and tested many different propellers and pitch angles for use on our boats. All tests indicate that the current propeller installed on your model is the best for the variety of boating performance required, whether skiing competitively or for pleasure.

It is strongly recommended that your Supra dealer be notified before changing the propeller. In general, changing to a lower pitched propeller may increase acceleration, but will decrease top speed. Changing to a higher pitched propeller may achieve higher top speed with a light load, while acceleration and power may decrease.

CAUTION

Avoid engine damage. Do not exceed the maximum RPM as listed for your motor. Some props may allow the engine to over rev, which can cause non-warrantable engine damage.

PROPELLER PRECAUTION!



A moving propeller will cause injury. The propeller may turn with the boat in neutral. Shut off the engine while skiers or swimmers are in the water near the ski platform.

NOTICE: Under no circumstances should a propeller be used which allows the engine to exceed manufacturer's recommended RPMs.

Triple-Up Seating

Supra boats have "Triple-Up" seating. This unique type of seating can be stored flat or flipped up for extra rear facing seating. To use this seating, lift and pull the seat back into the locked position. Be sure that the metal arms are locked straight before applying pressure. To lay seat back down, simply pull the lever section of the metal support arm to release the lock mechanism.

Convertible Rear Seat

Some Supra models are equipped with a convertible rear seat. The rear seat lifts from the back, hinges forward, and can be used for a cockpit table. Lift the table forward and it becomes a rear facing seat.

CAUTION

The convertible rear seat back does not lock into place. It is not intended as support. Do not lean on or use as a brace in case of sudden change in direction.



Wake Plate



The wake plate allows the driver to control the running attitude of the boat. It can be controlled by the switch on the dashboard.

Trim Switch



This switch controls the wake plate. The gauge indicates the position of the plate.

Cruise Control Speed Adjustment



This switch allows the speed of the boat to be increased or decreased while the Zero-Off is engaged.

Billet Glove Box

To open the glove box, press the button on the door. To close the lid, simply push the lid back until it latches.

Walk-Thru Windshield

The movable center windshield panel allows access to and from the bow deck. To open, turn safety latches to vertical and push. Lay the center windshield panel gently against the fixed side panel.

Optional Steering Wheel with Wireless Controls

Some Supras are equipped with steering wheel mounted controls. Two remotes control functions of audio, Zero Off, Swell, and the rear view camera.

The remotes must be paired with the ICE Audio control. See the Vision Touch instructions earlier in this manual on how to pair the remotes.



Wakeboard Racks



Wakeboard racks are a convenient way to store wakeboards while using your boat.

Supras have swing arm wakeboard racks for easier loading and unloading of boards. The swing arm has a stop at 0, 90, and 180 degrees. To operate, pull the pin and rotate the wakeboard rack. Lock the pin into position to ensure rack does not rotate unexpectedly.

CAUTION

- **Place wakeboard swing arm in the 0 degree position prior to putting the boat in gear.**
- Check tightness of all mounting hardware before each use.
- DO NOT trailer the boat with wakeboards mounted in the racks.

Optional Clamping Wakeboard Rack



Optional on Supra Boats are wakeboard racks that gently clamp down onto boards to hold them secure while underway.

Optional Underwater Lights

CAUTION

Do not operate underwater lights out of water. It can cause the lights to overheat and lead to failure of light and damage boat. This damage is not covered by warranty

Docking Lights

The docking lights are designed to help you dock, load and unload your boat in low light or at night.

NOTE: Docking lights are not to be used as running lights at night. USCG regulations mandate that a boat under power after sunset must display a 360 degree white light and a red/green bow light.

Optional Automatic Fire Suppression System



The optional Automatic Fire Suppression System has a sensor in the engine compartment that is designed to detect a fire. Under normal conditions, the dash area warning light will glow green when the ignition is "ON". If the engine compartment sensor is activated by a fire, it will deploy the content of its fire extinguisher and the dash mounted warning light will turn red.



Optional Mooring Cover



Your Supra boat cover is made from the finest canvas and webbing to ensure that your boat will be protected in the off season. The cover has been designed to fit securely around each boat.

Use the following procedure when covering the boat:

1. Be sure that the cover fits snugly at the bow then unfold from front to back.
2. Be sure to install cover pole(s) and adjust to proper height, using set screw on pole(s). This will keep water from gathering in the center, which can damage the cover.
3. Secure all fastening straps around the trailer frame.
4. Use the ratchet system to tighten the drawstrap.

Folding Cover

When folding the cover for storage, be sure the cover is dry. Take care not to scratch the canvas finish against rough surfaces. Store in a dry location.

Cover Repair

If the cover becomes damaged, immediately patch and reseal the area. Use a tent seam sealer to reseal any new stitches. Spray fabric guard on scraped or worn surfaces. Canvas tears should be repaired professionally and stitches sealed to prevent leakage.

CAUTION

DO NOT trailer the boat with the mooring cover installed. This type of damage IS NOT covered by your boat warranty!

Optional Tonneau Cover



The optional tonneau cover is designed to snap over the bow of the boat. Its purpose is to minimize air flow into the cockpit area when the boat is in use and as a storage cover when used in combination with the optional cockpit cover.

CAUTION

DO NOT trailer the boat with the tonneau cover installed. The tonneau cover is not designed as a trailer cover and may come unsnapped or rip. This type of damage IS NOT covered by your boat warranty!

Optional Cockpit Cover



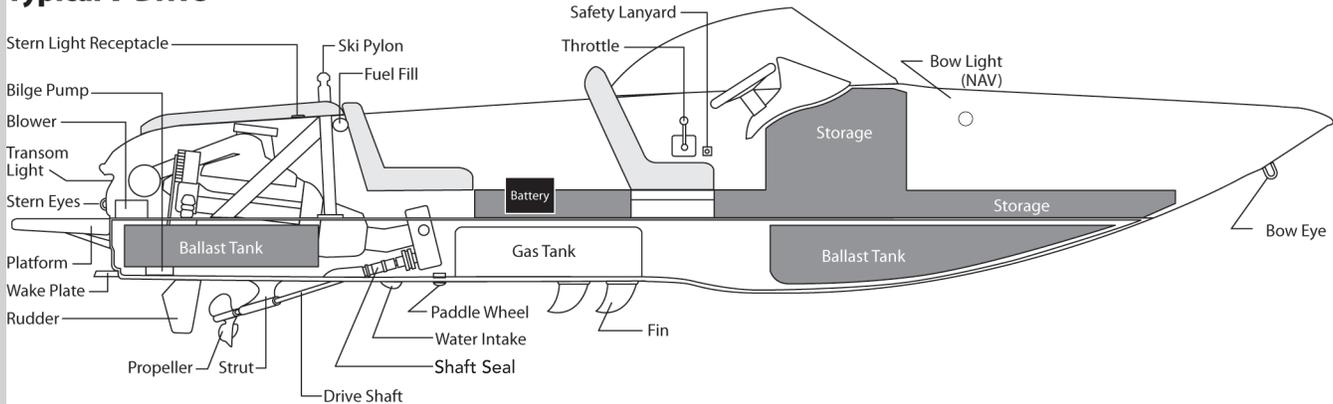
The optional cockpit cover is a snap down storage cover designed to help protect the interior of your boat. To install the cover, start at the windshield and work towards the transom. Be sure to install the hangtyte rope to prevent water pocketing.

CAUTION

DO NOT trailer the boat with the cockpit cover installed. The cockpit cover is not designed as a trailer cover and may come unsnapped or rip. This type of damage IS NOT covered by your boat warranty!



Typical V-Drive



The illustration above denotes the areas which may need to be accessed or may require cleaning or maintenance. It is important to have basic understanding of the parts and their location on the boat. However, it is recommended that any service beyond routine maintenance be performed by an authorized Supra dealer.

Service & Maintenance

For your convenience, a maintenance schedule has been included in this manual. The items listed outline when to perform safety checks, lubrication and general service to your boat. Engine hours or elapsed time determine when service is necessary.

It is recommended that any replacement parts used during maintenance or for repair be supplied by an authorized Supra dealer.

NOTICE: You are responsible for keeping records of all maintenance on your boat. To maintain your new boat warranty, you may be required to prove that required maintenance was performed.



Maintenance Intervals @ Engine Hours

Maintenance To Perform	Weekly	1st 25	50	100	Yearly
Check Fuel Lines & Connections for Leaks	X	X	X	X	X
Ballast - Impeller Replacement				X	X
Check Battery Electrolyte Level		X	X	X	X
Check All Electrical Connections	X			X	X
Check Cooling System Hoses for Leaks	X	X			X
Tighten Engine Mount Fasteners					X
Lubricate Shift Linkage Pivot Points					X
Check for Loose, Damaged or Missing Parts	X	X			X
Check Engine To Prop Shaft Alignment		X		X	X

* If engine overheats, visually check. If clogged, remove debris.

This inspection and maintenance schedule is recommended for average operating conditions in normal service. Under severe operating conditions or service, intervals should be shortened.

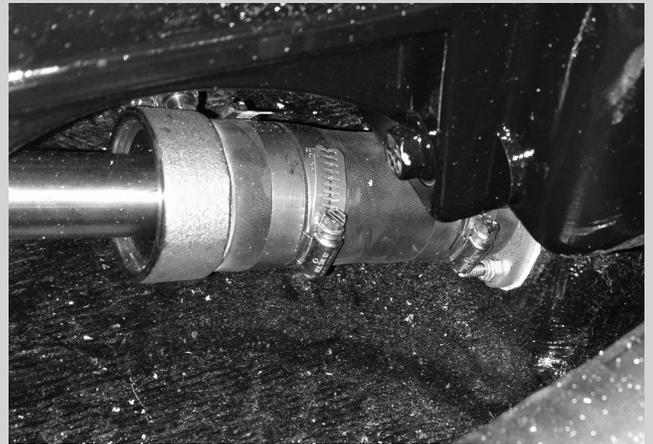
NOTE:

REFER TO INDMAR ENGINE MANUAL FOR ENGINE, TRANSMISSION AND V-DRIVE MAINTENANCE SCHEDULE AND PROCEDURES.

Component Lubrication

Normal use of your Supra causes metal to metal movement at some parts in the boat. The driver's seat track should be lubricated with a water resistant chassis lubricant such as silicon grease.

Dripless Shaft Seal



Your Supra comes standard with a dripless shaft seal. If any seepage occurs, contact your dealer.



Battery Box



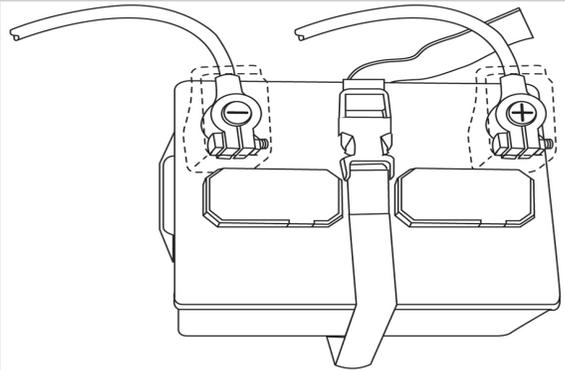
The battery is mounted inside the observer's seat storage compartment. Location may vary slightly depending on the model.

NOTICE: It is recommended that the battery cables be disconnected from the battery when the boat is placed in storage.

CAUTION

Avoid damage or injury from battery acid. Ensure that the battery is properly secured before using boat.

Battery Cable Installation & Precautions



Use a good quality marine grade battery

Your battery is an important part of your boat. It provides all the power to start your boat and allows all of your electrical components (bilge pump, blower, stereo, etc.) to work even if the motor is not running.

Because of its important role, Supra recommends using a good quality "Marine Dual Purpose" battery. The "Dual Purpose" rating means that it can provide the cranking Amps needed to start your motor, yet it also has an Amp hour discharge rating so it can handle low electrical drawdown cycle.

Your Supra electrical system is a negative ground type. The negative battery cable is grounded to the engine block. The positive battery cable is connected to the starter solenoid.

Connect the positive (+) battery cable to the positive (+) post on the battery. Connect the negative (-) battery cable to the negative (-) post on the battery.

CAUTION

Failure to connect battery cables as outlined will damage the system and void the warranty.



WARNING

Sulfuric acid in the battery can cause serious burns. If spilled on skin or in eyes, flush with clean water immediately, then seek medical attention.



WARNING

Hydrogen and oxygen gases are produced during normal battery operation and charging. Sparks or flames near the battery vent openings can cause the mixture to ignite and explode.



Dual Battery (Option) Hookup

To properly hook up the two batteries;

1. Connect the grounding strap provided from the negative (-) post on Battery 1 to the negative (-) post on Battery 2.
2. Connect the negative (-) cable from the grounding buss bar to the negative (-) post on Battery 1.
3. Connect the negative (-) cable from the engine to the negative (-) post on Battery 1.
4. Connect the positive cable from the left side of the battery switch to the positive (+) post on Battery 1.
5. Connect the positive cable from the bottom of the switch to the positive (+) post Battery 2.

Battery 1 is designated as the primary battery and Battery 2 is designated as the secondary battery.

Skier's Choice installs a 4-position battery switch on any boat equipped with dual batteries. It is recommended that both batteries be fully charged between each use to insure they can deliver the electrical demands required for each outing. The purpose of our recommendation is to utilize one primary battery for all operational needs, and have the other as a backup if the primary battery discharges.

This situation could occur if you run your accessories such as ballast or stereo for a long time, without running the boat. The dual battery setup is designed to create a redundant system allowing the user to have a backup battery. The switch must be in the "1" or "2" position to create the redundancy.

The 4 positions available on the battery switch are: Off / 1 / 2 / 1&2. These choices indicate which battery is being used to power the boat and which battery is being charged by the engine's alternator.

We recommend using only position 1 or 2 while boating.

Battery switch position "1&2" is available but not recommended as power will be drawn from both batteries and the alternator will have difficulties keeping both batteries charged simultaneously. It also creates a ground differentiation which in turn will create issues with sensitive electrical components such as the Vision screen. The only time you may need Position 1 & 2 would be in an emergency situation where both batteries are low and need power from both to help start the engine.

CAUTION

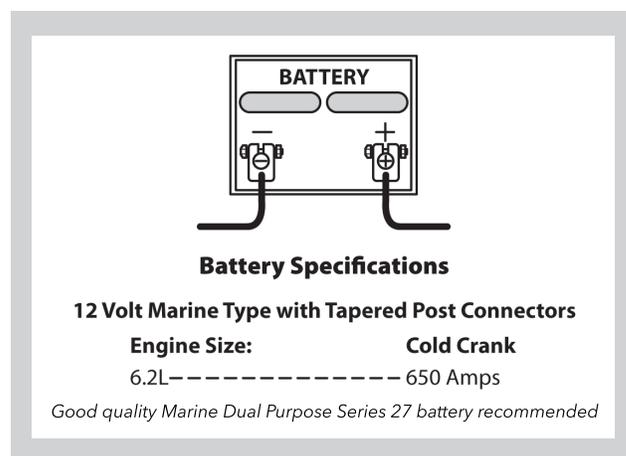
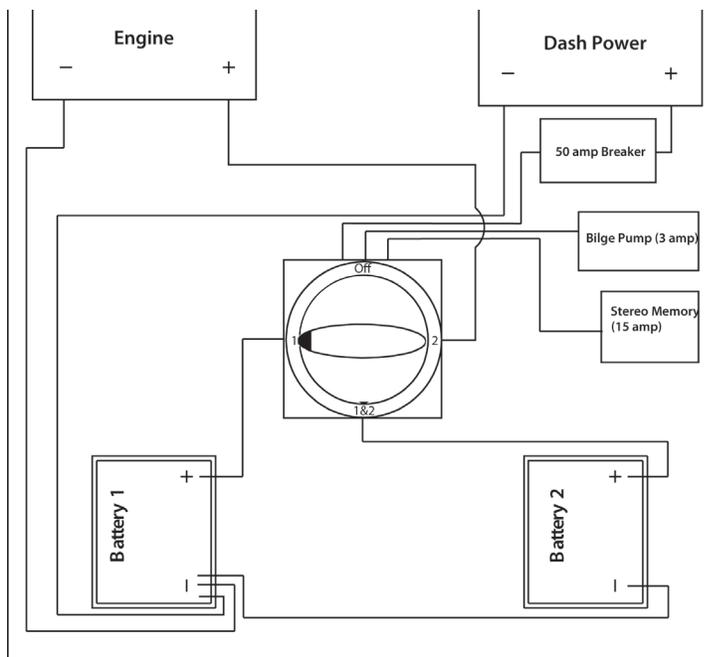
Do not turn the selector switch to the "Off" position when the motor is running. The alternator will be permanently damaged and is not covered under Skier's Choice or Indmar warranty.

It is highly recommended that Position "1" be used in most situations so the secondary battery will be available to start the engine from Battery 2 (secondary) if necessary.

Be aware that if position "1&2" is selected, both batteries will drain power at the same time and could leave you stranded due to weak batteries.

NOTE: It is recommended that you fully recharge your batteries using a battery charger periodically or after a period of high discharge (running many accessories for an extended period of time).

NOTE: Skier's Choice highly recommends using quality "Dual Purpose" batteries.



Fiberglass Care

Washing and waxing the boat hull and deck regularly will extend the life and beauty of your Supra. It is a good routine to rinse your boat with fresh water after each day's use.

It is recommended that the hull and deck be cleaned and waxed after every 25 hours of use. This will decrease water friction and lessen the potential for staining or spotting on the gelcoat surface.

When the original gelcoat shine cannot be restored by waxing, the shine may be restored by hand buffing with a commercial polishing compound. Be sure to apply a new coat of wax containing Carnauba over the area that has been polished.

IMPORTANT: Porcelain cleaning powders are too abrasive for use on gelcoat and may cause permanent discoloration if used. Household detergents containing ammonia or chlorine should not be used on gelcoat. Never use acetone or ketone solvents to clean your boat finish.

Washing Your Boat

The easiest way to preserve the beauty of your boat is to keep it clean by frequent washing. Wash the boat with luke warm or cold water. Wipe the boat down immediately after washing to avoid water spots. Avoid using hot water or washing your boat in direct sunlight. Avoid using strong soaps or chemical detergents. To avoid spotting, all cleaning agents should be thoroughly rinsed from the surface promptly and not allowed to dry on the finish.

Rub Rail Care

Use a sponge or other soft material to wash and wax the rub rail. To wax, use a commercial automotive bumper wax.

NOTICE: When tying up to a dock or another boat, always use cushioned fenders (dock bumpers) to protect your boat from hard surfaces.

Windshield Care

All Supra windshields are constructed of tempered safety glass to ensure passenger safety. The glass surfaces should be cleaned regularly to ensure that visibility is not obstructed.

Use a commercial glass cleaner to remove any spotting or stubborn stains that develop on the windshield. Never use abrasive cleaners on glass surfaces.

Upholstery Care

All upholstery items on your Supra are made of tough marine grade vinyl that is easily cleaned.

It is important to provide for the drying of all upholstery and carpet after each use of the boat. Open all storage compartments and slide all removable cushions out about an inch to allow air to circulate behind.

CAUTION

Strong detergents and cleaners may shorten the life of the vinyl. PLEASE SEE VINYL MANUFACTURER'S RECOMMENDED CARE GUIDE INCLUDED IN YOUR OWNER'S MANUAL PACKAGE.

FAILURE TO FOLLOW CARE GUIDE MAY VOID VINYL WARRANTY.

Drying Upholstery



It is important to provide for the drying of all upholstery and carpet after each use of the boat. Open all storage compartments and slide all removable cushions out about an inch to allow air to circulate behind.

Improper drying of your cushions can attract mold spores under the vinyl which develop pink or blue stains depending on the type of mold. These stains are not covered under the limited warranty.



Winterization

When the boating and ski season comes to a close, it is important to have your boat professionally winterized.

If your boat is exposed to temperatures below 32 degrees F (0 degrees C), it is possible for water in the engine, ballast system, heater core, etc., to freeze. As this water freezes, it expands and can crack pumps, valves, heat exchangers, engine blocks, etc. This type of damage usually requires the replacement of the cracked item and can be very expensive to repair.

CAUTION

It is extremely important to follow the proper winterizing procedure. The engine must be correctly winterized for safe storage in your climate. This should be done by a professional. Your Supra dealer will know exactly what must be done to ensure the longest possible life for your boat.

In addition to having your boat professionally winterized, the following tasks should be done to protect your boat during storage:

1. Remove the drain plug from the boat.
2. Thoroughly clean the boat inside and out. Inspect the hull for any residue or algae growth and remove if required.
3. Clean the bilge area thoroughly and operate the bilge pump to remove any water from the bilge hose.
4. Remove all seat cushions and open all storage areas to air circulation in the boat interior. When thoroughly dry, replace cushions and close storage areas.
5. Top off fuel tank to prevent any condensation from accumulating in the fuel system. Use a commercially available fuel stabilizer to remove water and prevent gumming.
6. If the boat is stored on its trailer, ensure that the boat is properly positioned. If possible, lift the tongue so that the bow is slightly raised to promote drainage from the drain hole.
7. Install the canvas cover and secure the straps in accordance with cover instructions.

NOTE: During the winter months, water is a boat's worst enemy. Always store the boat when the interior is completely dry. Periodically check on the condition of the stored boat.

CAUTION

Damage due to improper winterization IS NOT covered under your boat's warranty.

CAUTION

E-10 fuels require fuel stabilizers that are specifically designed for E-10 fuels to help prevent moisture absorption, phase separation and gasoline stabilization.

Summerization

Before using the boat after it has been in dry storage requires some special treatment. Supra recommends having your boat professionally summerized, preferably by the same facility that prepped it for storage. They will be familiar with what items were done in the fall and what items need to be addressed in the spring.

In addition to having your boat professionally summerized, the following list of tasks should be done to ensure a successful start to your boating season.

- Check Trailer
- Tire Pressure
- Bearing Lube
- Lights

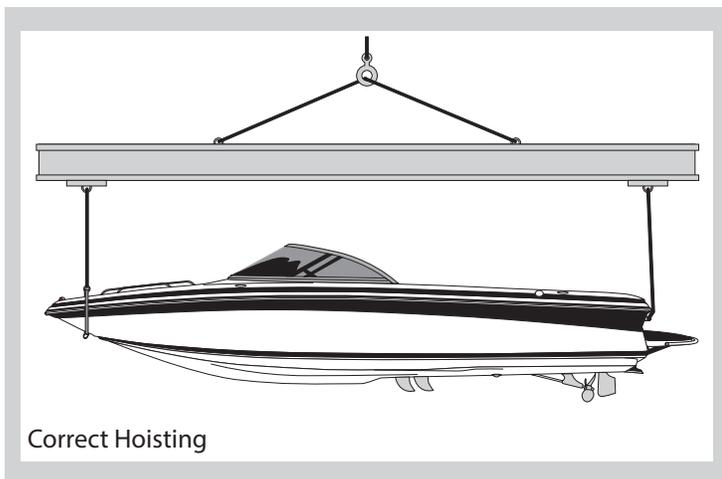
- Charge Battery
- Clean & Wax Gel Coat
- Clean Interior

- Check All Systems
- Blower
- Bilge Pump
- Navigation Lights
- Interior Lights

When launching the boat for the first time of the season, carefully watch all gauges to ensure that the boat is not overheating, the alternator is charging and the engine has proper oil pressure.

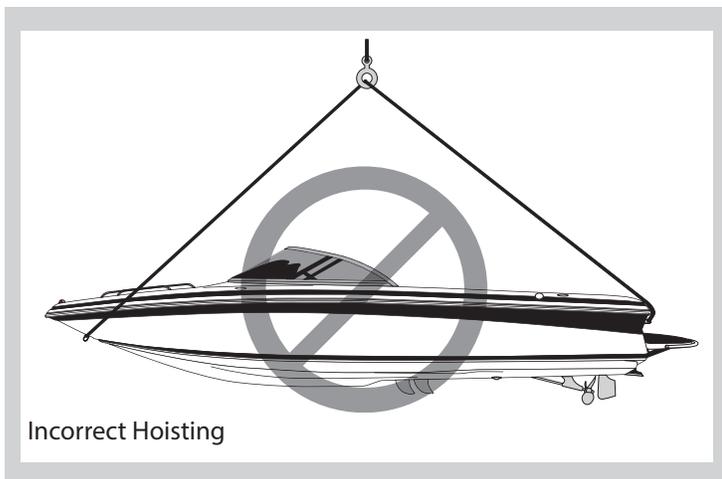


Temporary Hoisting



If the boat ever needs to be hoisted, special attention should be given to the following recommendations:

- Hoist the boat using a horizontal lifting bar only.
- Never attempt to lift the boat by means of a cable sling from bow to stern lifting eyes.
- Hoist operator should slowly and smoothly lift the boat without jerking to avoid damage to the lifting eyes.

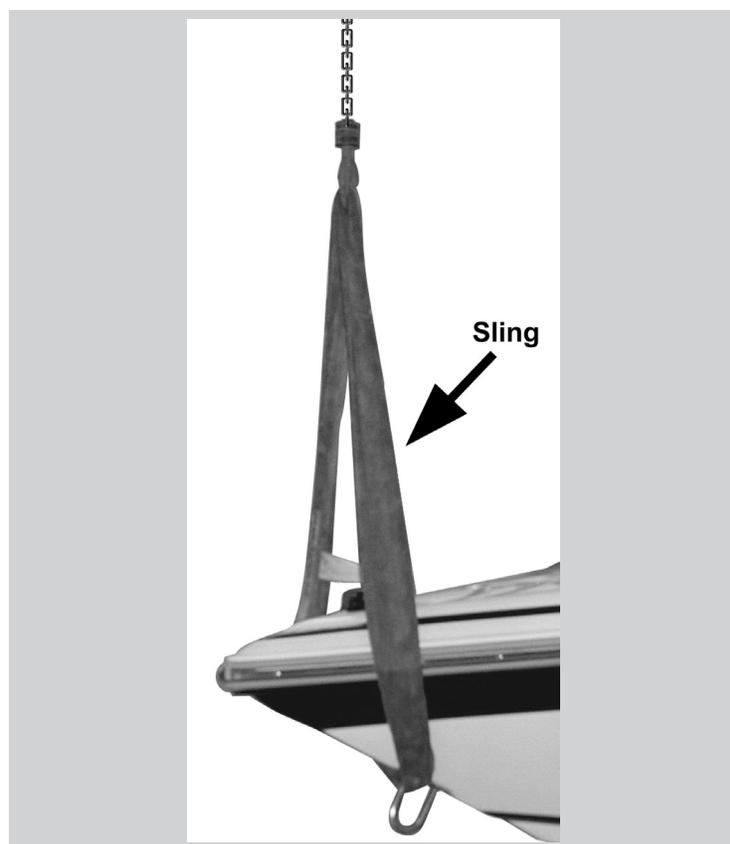


⚠ WARNING

DO NOT use the ski pylon to hoist the boat.

⚠ CAUTION

Incorrect hoisting may invalidate the warranty on the boat.



⚠ WARNING

Use only a proper sized sling in the designated lifting rings to hoist the boat.



NOTE: For boat houses, we highly recommend the use of a lifting cradle. Cradle bunk design should mimic the bunk design of the trailer.



Identification Number



The hull identification number is located on the upper right hand side of the transom below the rub rail.

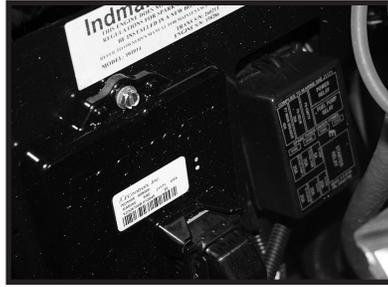
Breakers, Fuses, Relays, & PDM		Type	Size (amps)	Location
Fuse Block	ECM	ATM	20	On Engine at Transmission
	Fuel Pump	ATM	20	
	Fuel Pump 2	ATM	20	
	Fuel Pum pRelay	Relay	NA	
	Helm	ATM	20	
	Main	MAX	40	
	Power Relay	Relay	NA	
	PTR	ATM	20	
	Starter	ATM	20	
	Starter Relay	Relay	NA	
	VSW	ATM	5	
Power Distribution Module (PDM)	Vision System	Internal Circuit Protection		Under Dash (fwd comp) and on Engine (aft comp)
	Navigation & Anchor Lights			
	Courtesy Lights			
	Docking & Underwater Lights			
	Tower Lights			
	Horn			
	Driver's Seat			
	Heater			

Breakers, Fuses, Relays, & PDM		Type	Size (amps)	Location
Battery Storage	Main Buss Bar	ANL	200	Battery Storage
	Amplifier Harness (8 Ch)	MAX	80	
	Amplifier Harness (6 Ch)	MAX	50	
	Amplifier Harness (4 Ch)	MAX	40	
	Auto Bilge x2	ATO	3	
	Stereo	ATO	5	
	Main Dash Breaker	Breaker	50	
Breaker Panel	Ignition	Breaker	10	Under Dash
	Bilge Pump	Breaker	3	
	Blower	Breaker	4	
	GPS	Breaker	3	
	ACC 5	Breaker	—	
	ACC 6	Breaker	—	
	USB Recepticle - Port	Breaker	6	
	12V Recepticle - Starboard	Breaker	15	
	Acc 1 - open for add'l components	Breaker	10	
	Acc 2 - open for add'l components	Breaker	10	
	Acc 3 - open for add'l components	Breaker	5	
Acc 4 - open for add'l components	Breaker	5		

Bulbs	Type	Size
Bow Light	Sealed	See Dealer
Courtesy Light	Sealed	See Dealer
Docking Light	Sealed	See Dealer
Gauges	161	12V
Tower Light	Sealed	See Dealer
Anchor Light	Sealed	See Dealer



Fuse Panel - Top of Engine



The Power Distribution Module (PDM) has an internal circuit protection for the Vision system and other components controlled through the Vision system. There are three PDM's in the 2017 Supra models; two under the dash that controls the forward components on the Vision system. The third PDM is located on the transom and controls the ballast, wake plate, and underwater lights.

PDM Breaker

The power to each PDM is protected by its own circuit breaker. The dash PDM has a breaker also under the dash. The circuit breaker for the transom PDM is located inside the engine compartment.

To turn off the power to the PDM's, manually press the red button and the circuit breaker reset lever will flip down and the power to the PDM's will be shut off. To reset the circuit breaker, push the reset lever back up.

Main Dash Power-Circuit Breaker - Battery Connection



The power to the dash circuit is protected by a circuit breaker that is located in the observer seat storage area near the battery.

To turn off the power to the dash, manually press the red button and the circuit breaker reset lever will flip down and the power to the dash circuit will be shut off. To reset the breaker, push the reset lever back up.

If all of the dash switches fail to work, reset the main dash power-circuit breaker.

Main Ballast Power-Circuit Breaker - Battery Connection



The power to the ballast pump circuit is protected by a circuit breaker that is located in the engine compartment.

To turn off the power to the ballast pump, manually press the red button and the circuit breaker reset lever will flip down and the power to the ballast circuit will be shut off. To reset the breaker, push the reset lever back up.





Trailer & Towing

The trailer supplied with your Supra was designed especially for the boat with your convenience in mind. Please be sure that you have an appropriate tow vehicle before attempting to trailer your boat. Your vehicle must be capable of towing 7,000 lbs. and must be fitted with no less than a Class III (10,000 lb. max.) trailer hitch.

CAUTION

Read the trailer towing section of your vehicle owner's manual before towing your trailer.

All Supra trailers require a 2" ball and a seven (7) round marine grade trailer wiring connector. The standard height from the ground to the top of the hitch ball should be about 20 inches. With the trailer attached to the tow vehicle, the trailer should stand approximately level.

Trailer Plug Wire Schematic

White:	Ground
Green:	Right Turn / Brake
Yellow:	Left Turn / Brake
Brown:	Running Lights
Blue:	Reverse Lights

Prolong Trailer Life

The following guidelines will prolong the life of the boat and trailer:

1. Always secure the boat to the trailer with tie-downs. Do not place straps around fenders or lights.
2. Always verify that the winch hook is securely in the bow eye, the strap is tight and the winch handle locked in place before trailering.
3. Check the recommended pressure displayed on the side of the tires and assure that it is maintained. Under-inflated tires could cause trailer sway and excessive tire wear.
4. Before use, please read all information supplied with the trailer by the manufacturer (Bearing Buddy and hydraulic brake actuator). Check wheel bearing grease.
5. Check wheel bearing lube.
6. See Trailer Owner's Manual for Maintenance Schedule.

CAUTION

Inadvertent release of latch pin could result in injury.

Connecting the Trailer



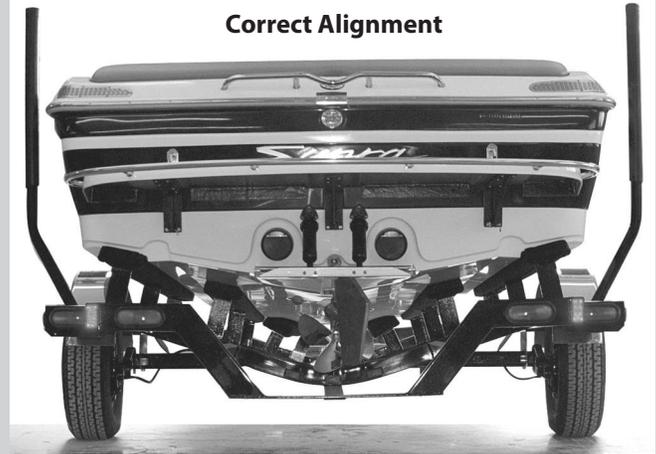
When connecting the trailer to your tow vehicle, use the following procedure:

1. Raise the tongue with the trailer jack. Position the trailer tongue directly over the 2" ball, and lower the jack until the tongue goes all the way down over the ball.
2. Press down on the latch until it locks on the ball with a "click."

NOTICE: If your hitch ball has an excessive flat spot on top, the latch may not engage properly. If the latch does not catch, check with your dealer or hitch installer before trailering.

3. Insert the locking pin into the tongue. Lock pin hole is on the side of the tongue.
4. When all weight is off the trailer jack, pull the jack lock pin and rotate the jack to the horizontal position and re-lock the pin.
5. Attach the safety cables to the tow vehicle hitch. Cross the cables and wrap them around each other once or possibly twice allowing just enough slack to permit tight turns of the vehicle and trailer.
6. Plug the trailer lights connector to the vehicle harness.
7. Clip the brake lockout cable to the vehicle hitch.

Trailer Alignment



When pulling the boat onto the trailer, be sure that it is centered on the trailer.



The distance between the boat and the wheel runner board should be equal on both sides.



Unloading Procedure

To unload the boat, use the following procedure as a guide:

1. Make sure that all drain plugs are securely in place.
2. Unplug light cord before backing into the water.
3. With Bow Eye Hook fastened, back the trailer until the water level is approximately 1 inch below the top of the trailer fenders. NOTICE: Ramp slopes vary, so actual level of water on trailer may be different. **(NOTE: Caution on this page!).**
4. Follow the cold start procedure recommended in this manual.
5. After starting the engine, remove Bow Eye Hook.
6. With engine idling, center steering wheel, engage transmission and slowly pull throttle into reverse. Ease back on the throttle lever until the boat starts to move.

NOTE: DO NOT attempt to use excessive power to free the boat from dry carpet runners. Power off of the trailer only when the boat has floated free.

CAUTION

If the trailer is not submerged to the correct depth, the bow of the boat could drop when powering off incorrectly, possibly damaging the boat.

WARNING

Roll driver's side window of tow vehicle down prior to backing down ramp. Should the vehicle slip into the water, the driver can escape through open window.

NOTE: Because your Supra is a true inboard, when backing up, the stern will have a tendency to drift left or right depending on propeller rotation.

Loading Procedure

To load the boat on the trailer, position the trailer in the water with approximately 1 inch of the top of the fender showing.

1. Idle/coast the boat onto the trailer using as little power as possible, while keeping it centered between the guide poles.
2. Power slowly forward until the bow eye roller contacts.
3. Winch hook must be attached to bow eye and tightened before trailering.

DO NOT Power onto the trailer during rough conditions! Once correctly positioned on the trailer, switch off ignition.

DO NOT OVER-POWER onto trailer or damage may occur to the boat and/or the trailer!

CAUTION

The trailer must be positioned for the correct water depth for loading or you may damage the boat. Varying ramp angles require different procedures. In general, the steeper the ramp, the more shallow the trailer should be positioned in the water. Your local dealer can help you understand this, should you require additional assistance.



SKIER'S CHOICE 2017 SUPRA® BOAT LIMITED WARRANTY

Skier's Choice, Inc. ("Skier's Choice") provides the following manufacturer's limited warranty, subject to the remedies, conditions, exclusions, and limitations set forth below, on all Supra® brand water sports boats sold as new by our authorized dealers. ("Covered Boats"). Indmar Marine Engines provides a manufacturer's limited warranty (the "Engine Warranty") for the engine of each Covered Boat. Boatmate Trailers provides a manufacturer's limited warranty (the "Trailer Warranty") for the trailer sold by our authorized dealers with each Covered Boat. For specific information on the Engine Warranty and the Trailer Warranty, please refer to the individual Indmar and Boatmate limited warranty policies. Exclusions and limitations apply.

Limited Warranty. Skier's Choice warrants to the original retail purchaser (the "First Owner") that the components and parts manufactured by Skier's Choice described below (the "Covered Components") of each Covered Boat are free from any defects in material and workmanship, under normal use and when operated and maintained according to Skier's Choice's instructions for the applicable Warranty Periods (defined below). The Skier's Choice warranty does not cover the engine and trailer sold with a Covered Boat, which are separately warranted under the Engine Warranty and the Trailer Warranty, respectively.

Limited Five-Year Warranty Period on Covered Components. This Limited Warranty applies to Covered Components other than the deck, hull, floor, and stringers for a period of five years (the "Five-Year Warranty Period") from the original date of purchase by the First Owner (the "Original Purchase Date"), except that the VISION Touch System has a Limited Warranty for a period of three years. Exclusions apply.

Limited Lifetime Period Structural Warranty. This Limited Warranty applies to the deck, hull, floor (excluding carpet), and stringers for as long as the First Owner owns the Covered Boat (the "Lifetime Warranty Period"). Exclusions apply.

Limited One-Year Warranty Period on Gel Coat. This Limited Warranty applies to the gel coat for a period of one year (the "One-Year Warranty Period") from the original date of purchase by the First Owner (the "Original Purchase Date"). The gel coat warranty is not transferable. Exclusions apply.

Warranty Transfer. The First Owner of a Covered Boat may assign and transfer ("Warranty Transfer") the Covered Components Warranty and the Structural Warranty to the second owner (the "Second Owner") subject to the following conditions: 1) the sale or conveyance by the First Owner occurs within five years after the Original Purchase Date; 2) an Authorized Supra® Dealer inspects the Covered Boat within 14 days after the sale or conveyance by the First Owner to the Second Owner; and 3) the Warranty Transfer fee in effect at the time of the sale or conveyance from the First Owner to the Second Owner is paid to the inspecting Authorized Supra® Dealer. Skier's Choice may refuse to accept the Warranty Transfer if the dealer inspection reveals that the Covered Boat has been damaged or abused. If the sale or conveyance by the First Owner occurs more than five years after the Original Purchase Date, then this Limited Warranty (the Structural Warranty) shall be void as of the date of transfer and shall not be transferable to the Second Owner. Only one Warranty Transfer within the applicable five year time period will be accepted by Skier's Choice, and any Structural Warranty transferred to a Second Owner will terminate ten years from the Original Purchase Date. This Limited Warranty immediately terminates without notice if and when the Second Owner sells or transfers the Covered Boat to a subsequent owner, and this Limited Warranty shall then be null and void. Warranty Transfer of the engine must be completed through Indmar. Warranty transfer of the trailer must be completed through Boatmate Trailers.

If the Covered Boat is: 1) repossessed from the First Owner or the Second Owner; 2) purchased at auction (bank auction, online auction, auction house, etc.); 3) sold to or purchased from a salvage yard; or 4) sold to or purchased from an insurance company that obtained the Covered Boat as a result of an insurance claim then the Limited Warranty terminates and is null and void.

DISCLAIMER AND LIMITATION OF IMPLIED WARRANTIES

ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESS OR IMPLIED, ARE SUPERSEDED BY THIS LIMITED WARRANTY. AND, SKIER'S CHOICE DISCLAIMS, AND THE OWNER HEREBY EXPRESSLY WAIVES, TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW, ANY AND ALL OTHER WARRANTIES, CONDITIONS OR REPRESENTATIONS OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, OTHER THAN THOSE WARRANTIES WHICH ARE IMPLIED BY, AND CANNOT BE EXCLUDED, RESTRICTED, OR MODIFIED UNDER APPLICABLE LAW. THE TERM OF ANY IMPLIED WARRANTIES THAT CANNOT BE DISCLAIMED UNDER APPLICABLE LAW, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY PERIODS STATED HEREIN. SOME STATES DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES AND/OR DO NOT ALLOW LIMITATIONS ON THE AMOUNT OF TIME AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. HOWEVER, IN THE EVENT THAT APPLICABLE STATE OR COUNTRY LAW DOES NOT ALLOW EXCLUSION OF IMPLIED WARRANTIES BUT SETS FORTH THAT IMPLIED WARRANTIES MAY BE LIMITED IN DURATION, THIS LIMITED WARRANTY LIMITS THE DURATION OF IMPLIED WARRANTIES TO THE TIME PERIOD PROVIDED IN THIS LIMITED WARRANTY OR APPLICABLE STATE LAW, WHICHEVER IS SHORTER. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR COUNTRY TO COUNTRY. THIS LIMITED WARRANTY DOES NOT AFFECT THE RIGHTS YOU MAY HAVE UNDER LAWS IN OTHER COUNTRIES.



EXCLUSIONS

Skier's Choice boats are manufactured from high-quality materials and components by skilled team members. Conditions outside of Skier's Choice control, however, require limitations and exclusions from coverage under this Limited Warranty. Therefore, claims arising from or relating to the following are NOT covered by this Limited Warranty and Skier's Choice disclaims any liability or obligation to the First Owner or the Second Owner, and any other person or party, with respect to the following:

1. Defects in or damage to a Covered Boat caused by the engine, trailer, or any components or parts (including, but not limited to, the bilge pump) not manufactured by Skier's Choice. (Note: These excluded items may be covered by the Engine Warranty, the Trailer Warranty, or separate warranty from the part or component manufacturer);
2. Defects in a Covered Boat that has been sold or transferred by the First Owner and the Warranty Transfer conditions have not been timely satisfied;
3. Hardware or other components fastened or adhered to the hull, deck, floor, or stringers of the Covered Boat;
4. Normal maintenance and upkeep relating to the Covered Boat or any part thereof, including, but not limited to, alignment, adjustments, connectors, tune-ups and wear items, such as, shaft packing, belts, hoses, filters, seals, gaskets, and strut bushing;
5. Damage to or malfunction of a Covered Boat, or any component thereof, resulting from lack of maintenance, improper maintenance, impact, misuse, negligence, collision, allision, accident, or delay in repair;
6. Damage caused by fire, theft, freezing, vandalism, explosion, lightning, wind, hail storms, flooding, natural disasters, or Acts of God;
7. Equipment installed, repaired or replaced by anyone other than an Authorized Supra® Dealer or the Skier's Choice factory or factory representative;
8. Damage caused by any dealer-installed or Owner-installed options or accessories;
9. Damage caused by use of the Covered Boat from: racing, speed or commercial competitions; performance demonstrations; ski schools; rental, charter, or other commercial uses; or military or industrial purposes;
10. Damage caused by improper alteration or modification to the Covered Boat or any of its component parts or accessories, including any damage caused by alteration, modification, repair, or replacement so as to increase the cubic inch capacity or horsepower output of the engine and Covered Boat from what was originally manufactured;
11. Damage caused by use of improper or contaminated materials or substances, including, but not limited to fuel, lubricants, or coolants;
12. Damage caused by failure to timely comply with any recall or request for repair, including the failure to observe any instructions regarding use or maintenance pending completion of recall repairs;
13. Damage caused by improper storage or support of the Covered Boat on davits, a hoist or cradling system, or boat lift of any kind;
14. Damage caused by failure to maintain the Covered Boat in accordance with the maintenance provisions in the Owner's Manual;
15. Speed, range, fuel consumption and other performance characteristics of the Covered Boat because they are estimated and may vary;
16. Damage to or defects in paints, varnishes, gel coat surfaces and colors, finish distortions, chrome plated or anodized finishes, floor covers, and any other surface coatings;
17. Gel coat discoloration, blisters, bubbles, or fading, including, but not limited to, those which may result from the Covered Boat being left in the water for long periods of time, or the failure to perform maintenance on the gel coat in a timely and proper manner in accordance with the Owner's Manual;
18. Upholstery cracks, mold or mildew, stains, fading, or tears resulting from use, the failure to perform maintenance on the upholstery in a timely and proper manner in accordance with the Owner's Manual, impact, misuse, negligence, delay in repair, use of improper cleaners or conditioners;
19. Changes, revisions, or improvements made to the design, manufacture, options, accessories, or warranties of Skier's Choice boats from previous boats, including the Covered Boat;
20. Any Covered Boat purchased from a dealer in another country, where the primary use of the boat will require the boat to cross an international border, except to the extent otherwise expressly provided in a separate written agreement between the First Owner and Skier's Choice.
21. Corrosion due to containments, environmental, or otherwise.

SOLE REMEDY

THE SOLE AND EXCLUSIVE REMEDY OF THE FIRST OWNER AND, IF APPLICABLE, THE SECOND OWNER, IS THE REPAIR OR REPLACEMENT, AT THE OPTION OF SKIER'S CHOICE, OF THE DEFECTIVE COVERED COMPONENT PARTS OF A COVERED BOAT AS PROVIDED HEREIN. IN NO EVENT, TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW, SHALL SKIER'S CHOICE BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT, PUNITIVE OR EXEMPLARY DAMAGES OR LOST PROFITS ARISING OUT OF THE USE OR INABILITY TO USE THE COVERED BOAT OR ANY COVERED COMPONENT PART THEREOF, OR FOR ANY BREACH OF THIS LIMITED WARRANTY OR OTHERWISE. SOME STATES AND COUNTRIES, HOWEVER, DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

Any Covered Component returned during the applicable Warranty Period to any Authorized Supra® Dealer will be repaired or replaced at the sole option of Skier's Choice's provided that the following conditions apply:

1. Only the Covered Components that are declared defective upon examination by or for Skier's Choice will be repaired or replaced under this Limited Warranty;
2. Transportation of the Covered Boat or Covered Components to the Authorized Supra® Dealer, or, if necessary, the Skier's Choice factory, must be pre-paid by the Covered Boat Owner;
3. Notice of any claim or defect under this Limited Warranty must be provided to an Authorized Supra® Dealer no later than sixty (60) days after the Owner becomes aware of the defect;
4. The Covered Boat was purchased at a dealership authorized by Skier's Choice to distribute the boat model in the country in which the sale to the First Owner occurred.



Notification of Claim. Notification of a claim or defect in a Covered Boat must be made during the applicable Warranty Period directly to an Authorized Supra® Dealer within 60 days after the Owner becomes aware of the defect. Information needed for processing a claim includes 1) name and address of the Owner; 2) serial number of the boat; 3) Original Purchase Date; 4) detailed explanation of the defect; and (5) estimated repair cost. Repair or replacement cannot be made until all of this information is received by an Authorized Supra® Dealer. If a Covered Boat has been at an Authorized Supra® Dealer for 15 days, or any warranty claim was not remedied in one repair attempt, an Owner must notify Skier's Choice directly. An Owner is responsible for providing Skier's Choice written notice of any warranty claims pending or discovered prior to the expiration of the Warranty Period.

Repair and Replacement. In case of a defective Covered Component for which a claim has been properly made during the applicable Warranty Period, Skier's Choice will repair or replace, at its sole discretion, the Covered Component within a reasonable time period of receipt, unless otherwise required by law, by an Authorized Supra® Dealer, or, if necessary, the Skier's Choice factory. Covered Components replaced or repaired pursuant to this Limited Warranty shall not extend the original Warranty Period, unless otherwise required by law. The repair or replacement of Covered Components will be made by Skier's Choice without charge to the Owner for parts or labor. The replacement or repair of the defective part or component as stated in this Limited Warranty shall be the sole and exclusive remedy of the Owner and the sole liability of Skier's Choice under this Limited Warranty and any implied warranties. Acceptance of any returned component by an Authorized Supra® Dealer or Skier's Choice shall not be deemed an admission that the component is defective.

SKIER'S CHOICE'S LIABILITY SHALL BE LIMITED SOLELY AND EXCLUSIVELY TO THE REPAIR OR REPLACEMENT OF THE COVERED BOAT OR COVERED COMPONENT FOUND TO BE DEFECTIVE AND REPORTED DURING THE APPLICABLE WARRANTY PERIOD. IN NO EVENT, SHALL SKIER'S CHOICE'S ULTIMATE LIABILITY EXCEED THE FAIR MARKET VALUE OF THE COVERED COMPONENT OR THE COVERED BOAT FOUND TO BE DEFECTIVE AND REPORTED DURING THE APPLICABLE WARRANTY PERIOD. SOME STATES AND COUNTRIES, HOWEVER, DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

No third party beneficiaries. This Limited Warranty does not create any right or benefit for any third party and is for the sole benefit of the First Owner and, if applicable after a valid Warranty Transfer, the Second Owner.

OTHER LIMITATIONS

THE DEALER IS NOT THE AGENT OF SKIER'S CHOICE AND SKIER'S CHOICE DOES NOT AUTHORIZE THE DEALER, OR ANY OTHER PERSON, TO ASSUME ON BEHALF OF SKIER'S CHOICE ANY LIABILITY, OBLIGATION OR EXPENSE INCURRED IN THE COURSE OF REPAIRING ITS PRODUCTS OTHER THAN THOSE EXPRESSLY AUTHORIZED IN THIS LIMITED WARRANTY. THE DEALER MAY NOT EXTEND OR IN ANY WAY CHANGE OR AMEND THIS LIMITED WARRANTY, NOR CAN THE DEALER MAKE OR ALTER THIS LIMITED WARRANTY OR MAKE ANY REPRESENTATIONS ON BEHALF OF SKIER'S CHOICE.

No advice or communication of any nature by Skier's Choice or its representatives shall modify or extend the terms or scope of this Limited Warranty, nor can a Skier's Choice representative make any representation on behalf of Skier's Choice that in anyway modifies the terms or scope of this warranty, except as authorized in writing by the Chief Executive Officer ("CEO") or President of Skier's Choice. ANY ACTION FOR BREACH OF WARRANTY AGAINST SKIER'S CHOICE SHALL BE BARRED UNLESS IT IS COMMENCED WITHIN ONE YEAR FROM THE DATE OF ACCRUAL OF SUCH CAUSE OF ACTION. SOME STATES OR COUNTRIES MAY NOT ALLOW THE APPLICABLE STATUTE OF LIMITATIONS FOR BREACH OF WARRANTY TO BE REDUCED, SO THIS PROVISION MAY NOT APPLY TO YOU.

This Limited Warranty shall be modified in its application and enforcement to the extent restricted, prohibited, or modified by local law to conform to applicable law.

The invalidity or unenforceability of any one or more of the provisions of this Limited Warranty herein shall not affect the validity and enforceability of other provisions.

AUSTRALIAN CONSUMERS ONLY

Warranty claims under this Limited Warranty may be sent to Ride Australia Pty Ltd., 245 Princes Highway PO Box 1454 Nowra, NSW, Australia 2541 (Tel: +61 2 4422 4477) service@rideaustralia.com.au

The benefits to the consumer given by this Limited Warranty are in addition to other rights and remedies of the consumer under a law in relation to the goods to which the warranty relates.

This Limited Warranty does not cover any expenses that you may incur claiming the warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Skier's Choice may be contacted at:

Skier's Choice, Inc.
1717 Henry G. Lane Street Maryville, TN 37801
Toll Free Tel: 1-800-970-3744
Local Tel: (865) 983-9924 Fax: (865) 983-9950
International Tel: +1 (865) 983-9924
Email: suprainfo@skierschoice.com



Owner's Responsibility

1. Before operating your Supra, it is necessary to read and fully understand this Owner's Manual and all other information delivered with the boat.
2. It is the owner's responsibility to take the boat to an authorized Supra dealer to obtain warranty service.
3. It is the owner's responsibility to properly operate and maintain the boat in accordance with this manual and all other information delivered with the boat.
4. The owner should keep maintenance records, should it be necessary to show that required maintenance has been performed on the boat.

Dealer's Responsibility

1. The Dealer should provide the buyer with an adequate orientation in the general operation of the boat and review all systems and accessories included with the boat.
2. The Dealer should deliver a complete owner's manual packet with the boat consisting of Owner's Manual, Registration, Engine Manual, Stereo Manual, Supra Warranty and all warranties for separately warranted items aboard the boat.
3. The Dealer should review all warranty information with the buyer and assist in filling out warranty cards if necessary.
4. The Dealer should ensure that any information or obligation from either Skier's Choice, Inc. or from the dealership is clearly understood by the buyer.
5. The Dealer should instruct the buyer in obtaining local service and out-of-area service for a Supra boat.

Customer Assistance

The staff at Skier's Choice, Inc. is concerned with your complete satisfaction. This includes the prompt resolution of any problems that may arise during the warranty period. Normally, problems encountered may be efficiently and effectively resolved by your Supra Dealer. However, if a problem cannot be handled by the Dealer or if a solution is not satisfactory to you as an Owner, please follow these steps to get the matter resolved:

STEP ONE

Discuss the problem with a member of your Supra Dealer's management staff. It is most likely that the problem will be resolved at this level.

STEP TWO

If the Dealer management does not resolve the problem to your satisfaction, please have the problem and all action taken, documented by the Dealer, then contact the factory Customer Service Representative at Skier's Choice, Inc.:

Skier's Choice, Inc.
1717 Henry G. Lane Street
Maryville, TN 37801
Toll Free: 800-970-3744
Tel: (865) 983-9924 Fax: (865) 983-9950

Describe the original problem in detail to the Customer Service Representative. Be prepared to furnish appropriate documentation and the reasons why service by the Dealer was unsatisfactory. If further action is required to resolve the problem, the Customer Service Representative will dictate the appropriate action.

STEP THREE

Finally, if after following these steps and providing documentation and after obtaining necessary authorization from the Customer Service Representative to take additional action, the problem is still not resolved to your satisfaction, the President of Skier's Choice, Inc. will personally review the problem and make a determination concerning final resolution.

Watersports Responsibility Code

Be aware that there are elements of risk in boating, skiing, and riding that common sense and personal awareness can help reduce. Know your ability level and stay within it.

To increase your enjoyment of the sport follow the "Watersports Responsibility Code".

It is your responsibility to:

- Familiarize yourself with all applicable laws, the risks inherent in the sport, and the proper use of equipment.
- Know the waterways where you will be skiing or riding. Do not ski or ride in shallow water, near shore, docks, pilings, swimmers, or other watercraft.
- Always have a person other than the boat driver as an observer and agree on hand signals before starting.
- Always wear a U.S. Coast Guard type III (PFD) vest.
- Read your owner's manual and inspect your equipment prior to use.
- Ski or ride within your limits. Always ski or ride in control and at speeds appropriate for you ability.
- Always turn ignition off when anyone is near watercraft power drive unit.
- Carbon Monoxide (CO) poisoning from engine exhaust may cause injury or death. Never "Platform Drag" or touch a swim platform while the engine is running.
- Do not operate watercraft, ski or ride under the influence of alcohol or drugs.
- Water Sports Industry Association



Watersports Safety Code

Before you get in the water: Skiing or riding instruction is recommended before use. Instruction will teach general safety guidelines and proper skiing or riding techniques, which may reduce your risk of injury. For more information on skiing or riding schools, contact your dealer, Association, or local ski club.

- Know the federal, state and local laws that apply to your area.
- If you are not familiar with a waterway, ask someone who is, to tell you about any hidden dangers or things to avoid
- Whether you plan to be in a watercraft, or skiing/riding behind one it is important you are wearing a properly fitted life jacket (PFD) approved by your country's agency, USCG Type III, ISO, etc.
- Inspect all equipment prior to each use, check bindings, fins, tube, attachment, tow rope and flotation device. Do not use if damaged.

Watercraft Safety: A knowledgeable and responsible driver is the most important safety device on any watercraft.

- Never operate a watercraft, ski or ride under the influence of alcohol or drugs.
- Only use water ballast and people for additional weight.
- Never exceed the passenger or weight limitations of the watercraft.
- Never allow passengers to hang outside the watercraft or towed device or sit on the gunwales or anywhere outside of the normal seating area.
- Never allow water to overflow the bow or gunwales of the watercraft.
- Uneven weight distribution or additional weight may affect the handling of the watercraft.

Carbon Monoxide: The exhaust from the engine on a watercraft contains Carbon Monoxide (CO) which is a colorless, odorless and poisonous gas. Excessive exposure to CO can cause severe injury or death.

Follow this advice to avoid injury:

- Never "Platform Drag" by holding onto the boarding platform or be dragged directly behind the watercraft. This is where CO will be.
- Do not sit on the watercraft transom or boarding platform while the engine is running.
- Make sure the engine is properly tuned and running well. An improperly tuned engine produces excessive exhaust and CO.
- If you smell engine exhaust, do not stay in that position.
- Go to the United States Coast Guard's website: www.uscgboating.org for more information on how to help protect yourself and others from the dangers of CO.

Tow Ropes: Tow ropes come in different lengths and strengths for different activities. Make sure any rope you are using is suited for skiing or riding and that it is in good condition.

- Never use a rope that is frayed, knotted, unraveling or discolored from use or being left in the sun. If a rope breaks while in use, it can recoil at the skier/riding being towed or into the watercraft where it might strike passengers. Replace tow ropes with any sign of damage.
- Never use a tow rope with elastic or bungee material to pull skiers or riders.
- Rope should be attached to the watercraft in an approved fashion with hardware designed for towing. Refer to your watercraft manual for instructions on proper tow rope attachment.
- Always keep people and tow ropes away from the propeller, even when idling.
- If a tow rope should become entangled in a propeller, shut off the engine, remove the key and put it in your pocket before retrieving the rope.

Preparing to ski or ride: Always have a person other than the driver as an observer to look out for the skier/riding.

- BE sure the driver is aware of the experience and ability level of the skier/riding.
- The driver, observer and skier/riding need to agree on hand signals before skiing or riding. Signals should include READY, STOP, SPEED UP, and SLOW DOWN.
- Start the engine only after making sure that no one in the water is near the propeller.
- **Turn the engine off when people are getting into or out of the watercraft, or in the water near the watercraft.**
- Always make sure the tow rope is not wrapped around anyone's hands, arms, legs, or other parts of the body.
- Start the watercraft and move slowly to remove slack until the tow rope is tight.
- When the skier/riding signals READY and there is no traffic ahead, take off in a straight line. Adjust the speed according to the signals given by the skier/riding.

Skiing or Riding: The watercraft and skier/riding should always maintain a sufficient distance from obstacles so a skier/riding falling or coasting and/or watercraft will not encounter any obstacle.

- Do not use in shallow water or near shore, docks, pilings, swimmers, other watercraft, or any other obstacles.
- Use only on the water.
- Never attempt land or dock starts. This will increase your risk of injury or death.
- Always wear a properly fitted U.S. Coast Guard Type III (PFD) or ISO approved Life Jacket.
- The faster you ski or ride, the greater your risk of injury.
- Never make sharp turns that may cause a slingshot effect on the skier/riding's speed.
- Skier/Riding should be towed at an appropriate speed for their ability level.

Fallen skier or riding: Falling and injuries are common in skiing or riding.

- Circle a fallen skier/riding slowly to return the tow rope handle or pick up the fallen skier/riding.
- Put the watercraft in neutral when near a fallen skier/riding.
- Always keep the fallen skier/riding in view and on the driver's side of the watercraft.
- Display a red or orange skier-down flag to alert other vessels that a skier/riding is down.

The Warnings and practices in the Watersports Safety Code represent common risks encountered by users. The code does not cover all instances of risk or danger. Please use common sense and good judgement.





SKIER'S CHOICE, INC.

Corporate Headquarters

1717 Henry G. Lane Street, Maryville, Tennessee 37801

Tel: 865-983-9924 — Fax: 865-983-9950

Web: www.supraboats.com

Supra inboard watersports boats are manufactured by Skier's Choice, Inc. in Maryville, Tennessee and distributed throughout the United States and the world.

Be sure to read and understand all aspects of Boating Safety and Operation before using your boat.

If you have any questions, your dealer can provide the information you need to have a safe and pleasurable boating experience.

Skier's Choice, Inc. reserves the right to change product specifications at any time without incurring obligation.

visit us online @
www.supraboats.com

