

Ultimate Trim Owners Manual

 REGAL

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Our Mission

With God's Help, We will Develop an Exceptional Team
Dedicated to Enriching Lives and
Providing an Awesome Boating Experience.

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Introduction

Congratulations on purchasing your new Regal boat. You've chosen a vessel recognized worldwide for its standard of excellence and commitment to luxury. Your vessel is certified by the National Marine Manufacturers Association and meets or exceeds standards set by the United States Coast Guard, American Boat and Yacht Council, and the National Marine Manufacturing Association. We believe you have made the best choice in a crowded field.

The Ultimate Trim is Regal's premier upgrade package combining modern luxury with state of the art functionality. The Ultimate Trim includes cosmetic upgrades like stainless steel hardware and Chil Cool Vinyl and operational upgrades like the EGIS and digital switching systems. This manual covers the operation and maintenance of some select items and is intended as a supplement to your boat's manual. This manual references information found in your model owners manual ex. see "Electrical Systems." Make sure to refer back to the manual for your specific make and model. Refer to any manufacturer materials included in your welcome packet and your specific model owners manual for any information not included in this supplement.

Regal Marine Industries Inc. is continually upgrading the product line. All dimensions, specifications, models, standards, and optional equipment are subject to change without notice at any time.


Our entire team would like to welcome you to the ever growing Regal family. We hope you enjoy your boat as much as we enjoyed making it.

Welcome aboard.

Notes

CALIFORNIA PROPOSITION 65

Boats manufactured for use in California for model year 2018 and after must meet the California EVAPE missions regulation for spark-ignition marine watercraft. Boats meeting this requirement display a trailerable or non-trailerable label near the helm.

**WARNING**

Operating, servicing and maintaining a recreational marine vessel can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, service your vessel in a well-ventilated area and wear gloves or wash your hands frequently when servicing this vessel. For more information go to: www.P65warnings.ca.gov/marine.

The fuel system in this boat complies with U.S. EPA mandated evaporative emission standards at time of manufacture using certified components.

MANUFACTURER'S WARRANTY COVERAGE

This evaporative emission control system is warranted for two years. If any evaporative emission-related part on your spark-ignition marine watercraft is defective, the part will be repaired by Regal Marine Industries, Inc.

OWNER'S MANUAL RESPONSIBILITIES

As the spark-ignition marine watercraft owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Regal Marine Industries, Inc. recommends that you keep all receipts for maintenance on your spark-ignition marine watercraft. Regal Marine Industries, Inc. cannot deny warranty solely for lack of receipts

Regal Marine Industries, Inc. may deny you warranty coverage of your spark-ignition marine watercraft, or failed parts, due to abuse, neglect, improper maintenance, or unapproved modifications.

You are responsible for taking your spark ignition marine watercraft to a Regal Marine Industries, Inc. distribution center or a service center as soon as a problem arises. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty coverage, you should contact Regal Marine Industries, Inc. at 407-851-4360.

EGIS

Your Ultimate vessel comes with the standard 12 volt DC battery system to turn on your engine and power your vessel electronics. The “EGIS” battery management system controls battery alignment automatically and is included as part of the Ultimate trim.

Automatic Charging Relays



Note: Layouts may vary

The EGIS battery management system uses automatic charging relays—“ACRs”— to connect the batteries in parallel whenever there is a charge source present. By connecting the batteries, the system can charge multiple batteries at the same time. It will also disconnect the batteries as the voltage level drops to ensure that you are not left stranded on the water.

Your standard vessel owners manual included in your welcome packet may mention that each battery switch has a “Parallel” option in addition to the “On” and “Off” positions. The EGIS system replaces the parallel position on Ultimate boats, so your switches will not include that position.

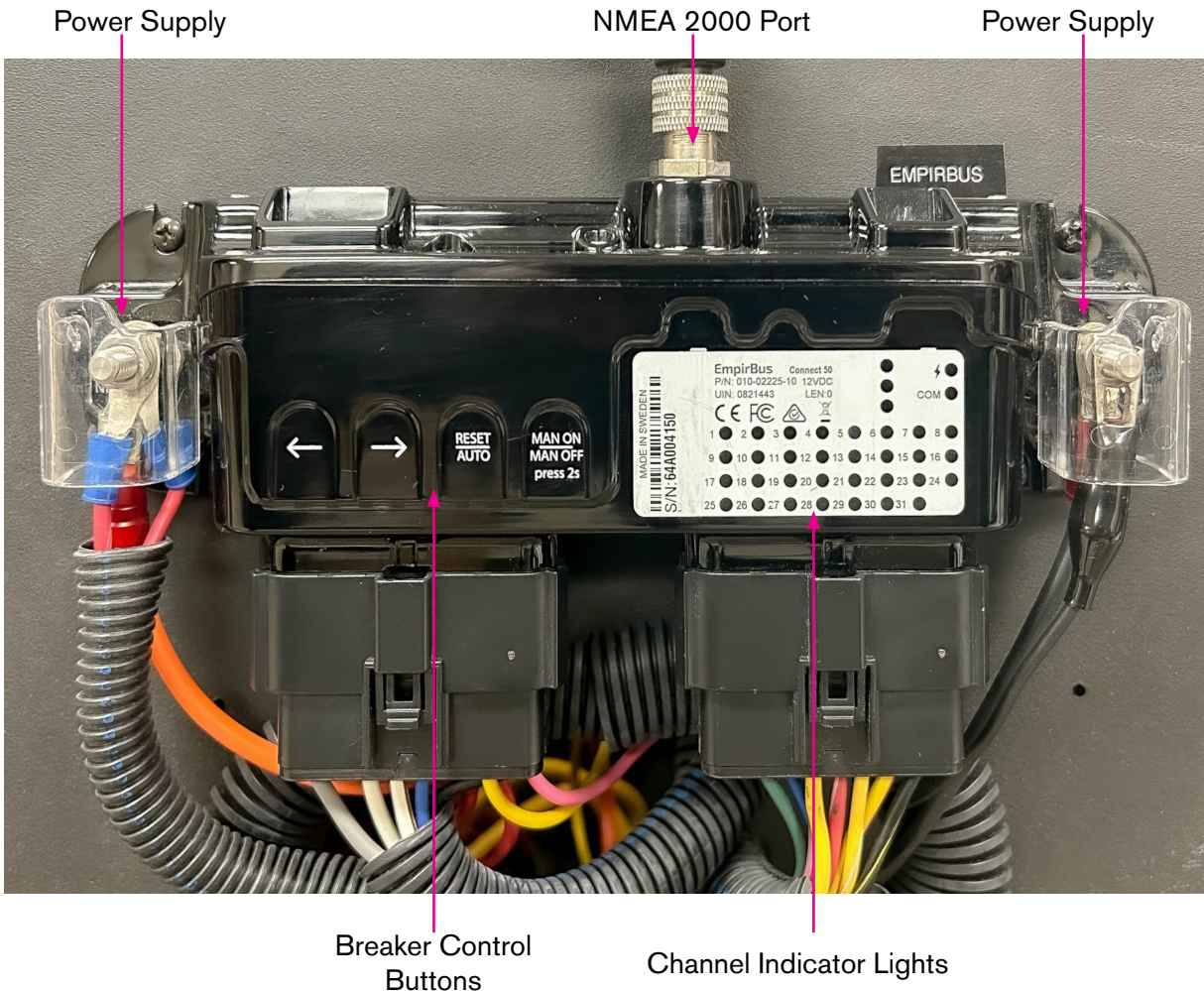
In the unlikely event you need to manually set the batteries to parallel, you can do so directly from the ACRs.

When your boat leaves the Regal factory, the ACR switches are set to “Auto.” Regal insists on leaving the switches on auto to avoid running out of battery power and being unable to start the engines. However, in an emergency it may be necessary to manually connect or disconnect the batteries.

To connect or disconnect the batteries from the EGIS, turn the ACR switches on the unit to either “OFF” or “ON.” Off will turn the batteries off completely. On will connect the batteries. Do not forget to disconnect the batteries or you will run out of power and be left stranded.

Remember: Only manually connect batteries in emergency situations.

Empirbus



An Empirbus is a digital distribution module that receives commands from the digital switching system in each plotter and outputs power to connected devices. When you tap an icon in the D.S.S., a signal flows from the plotter to an Empirbus module that reads the signal then powers the appropriate device.

The Empirbus is located in the hull. Flip up the starboard bow seat cushions to access the Empirbus.

The Empirbus Connect 50 modules (pictured above) distribute power to everything controlled via the digital switching system (see below).

Note: Empirbus locations may vary.

Battery Management Box Interior



Empirbus
Breaker

The physical breaker for the Empirbus module itself is labeled “Empirbus” and is located in the hull inside the battery management box (see “Systems”).

Each channel on the Empirbus has an LED light that indicates whether power is flowing to and from the module or not. If power is flowing, the light will be green. If the breaker for the channel is tripped the light will be red. If there is no power flowing through the channel, the light will be off. Some channels are always powered; others are powered only once they receive a signal from the D.S.S.

Breakers are reset using the “Breaker Reset” page within the D.S.S. In the unlikely event that the plotters go down, you can reset the breakers on the modules themselves. Channel breakers are controlled using the buttons on the front of the module.

First, use the arrow buttons on the left side of the unit to navigate through the channels.

When you press the arrow buttons, all the channel lights will turn off except for the selected channel. Use the ‘left’ and ‘right’ arrows to navigate to the desired channel. The lights will turn on and off as you cycle through channels. Stop when the light for the desired channel is illuminated.

After accessing the desired channel, use the “Man On/Man Off” button to turn the channel on or off. To reset the channel’s breaker, press the “Reset/ Auto” button.

If the plotters are down, you can activate D.S.S. controlled devices from the Empirbus by navigating to the desired channel and then using the “Man Off/Man On” button. There is an Empirbus channel list in the technical glossary provided with your model manual.

Garmin WDUv2



The Web Display Unit or WDU is the translator for the Digital Switching System and is powered by the NMEA 2000 (see “NMEA”). When you tap an icon in the D.S.S., the WDU receives, interprets, and transmits a signal to the Empirbus modules via the NMEA.

Glass Cockpit/Garmin Displays

Volvo Penta Glass Cockpit Displays



As part of your Ultimate package, your vessel comes equipped with upgraded, dual touchscreen plotters in the helm. From the plotters, you can access navigational charts, keep an eye on your fuel level, and control various electrical components from the digital switching system.

Refer to your specific model manual for more information on touchscreen plotters.

Digital Switching System



Digital switching is a new way to control all electrical devices on Regal Boats. Where there were once rows of physical switches, now there are convenient and minimal touchscreen displays.

Depending on your model, you can access the digital switching system from displays in the helm, and passenger seat. Most devices are one touch activation and one touch deactivation unless safety is a concern (see “Main cont.” below).

Note: LX9 screenshots shown and described; layouts and functionality may vary depending on your vessel.

Turning on

Launch Screen



Home Screen



Digital Switching System

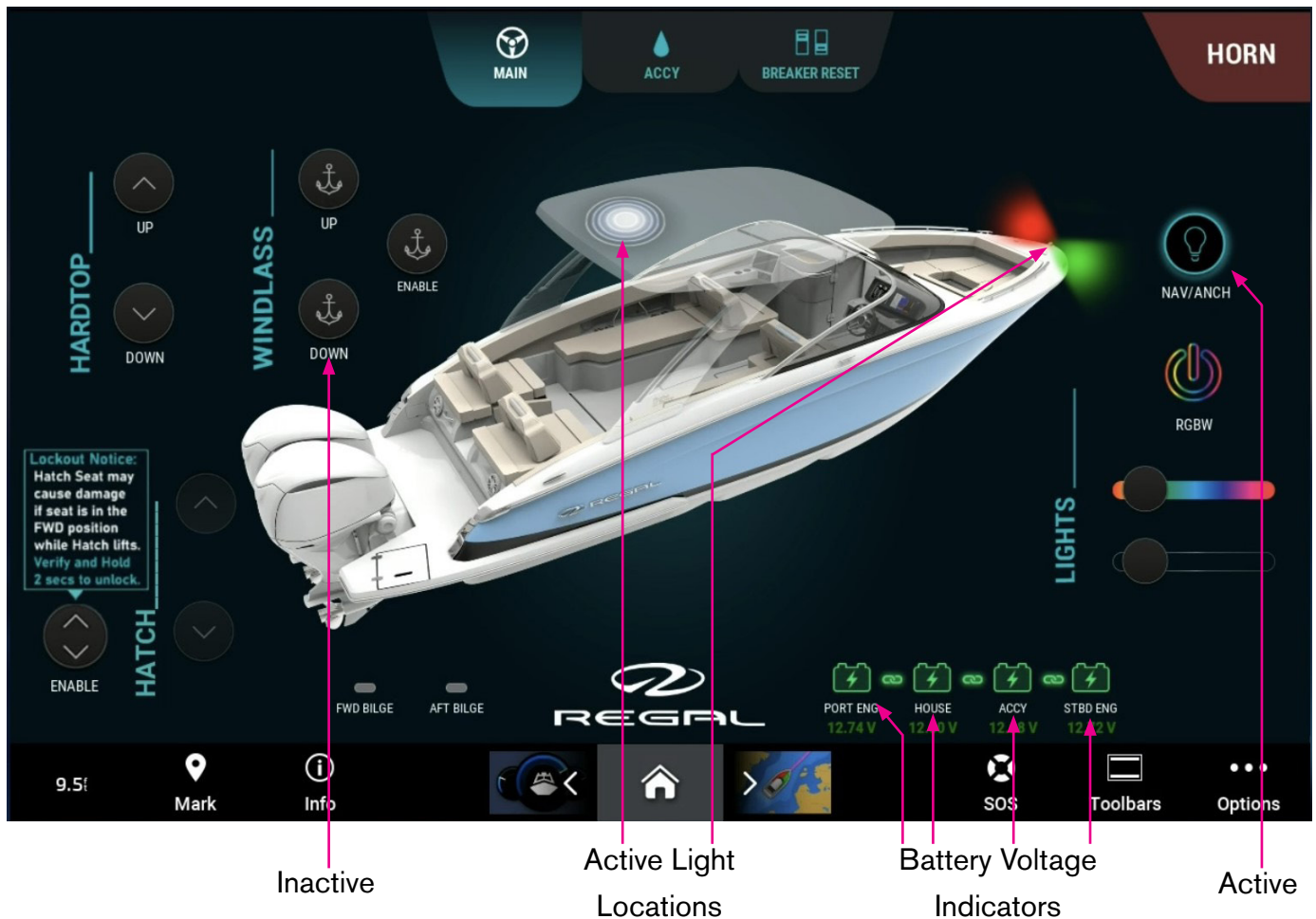
When your boat leaves the Regal factory, the digital switching system is set as each displays' launch screen. To access the system, turn on your boat and power up your displays. The switching system should appear automatically. At the helm, there will be a map of your boat shown in the center of the display.

If the switching system does not appear or you would like to navigate there from another page on your display, tap the digital switching icon indicated by the Regal boats logo.

When utilizing the switching system from the helm, you have access to three pages: Main, Accessories, and Breaker Reset.

Main

Main Screen



On the “Main” page, you can control general on-deck electrical devices. When you tap on a device, on any page, an icon will appear on the boat map showing you where the device is and that it was activated.

Use the ‘Lights’ section to turn navigation and deck lights on and off.

There are a series of battery voltage indicators along the bottom right of the screen. Voltage indicators will change from green to yellow to red as the boat’s systems use power stored in your batteries. Keep an eye on voltage levels to avoid running out of power.

From the ‘Windlass’ section you can raise or lower the anchor. Make sure your breaker is on then hold down the enable button until it lights up. Once lit, you can raise or lower the anchor.

Note: Some items are optional and may not be included in your vessel.

Main Screen



Main cont.

Actuators are used to open and close some doors and hatches and control some auxiliary equipment like your optional PowerTower or Power Hardtop (see below).

On the left side, you can raise or lower your hatch and the attached seating.

Most switches in the digital switching system are one-tap-open and one-tap-close, however, to

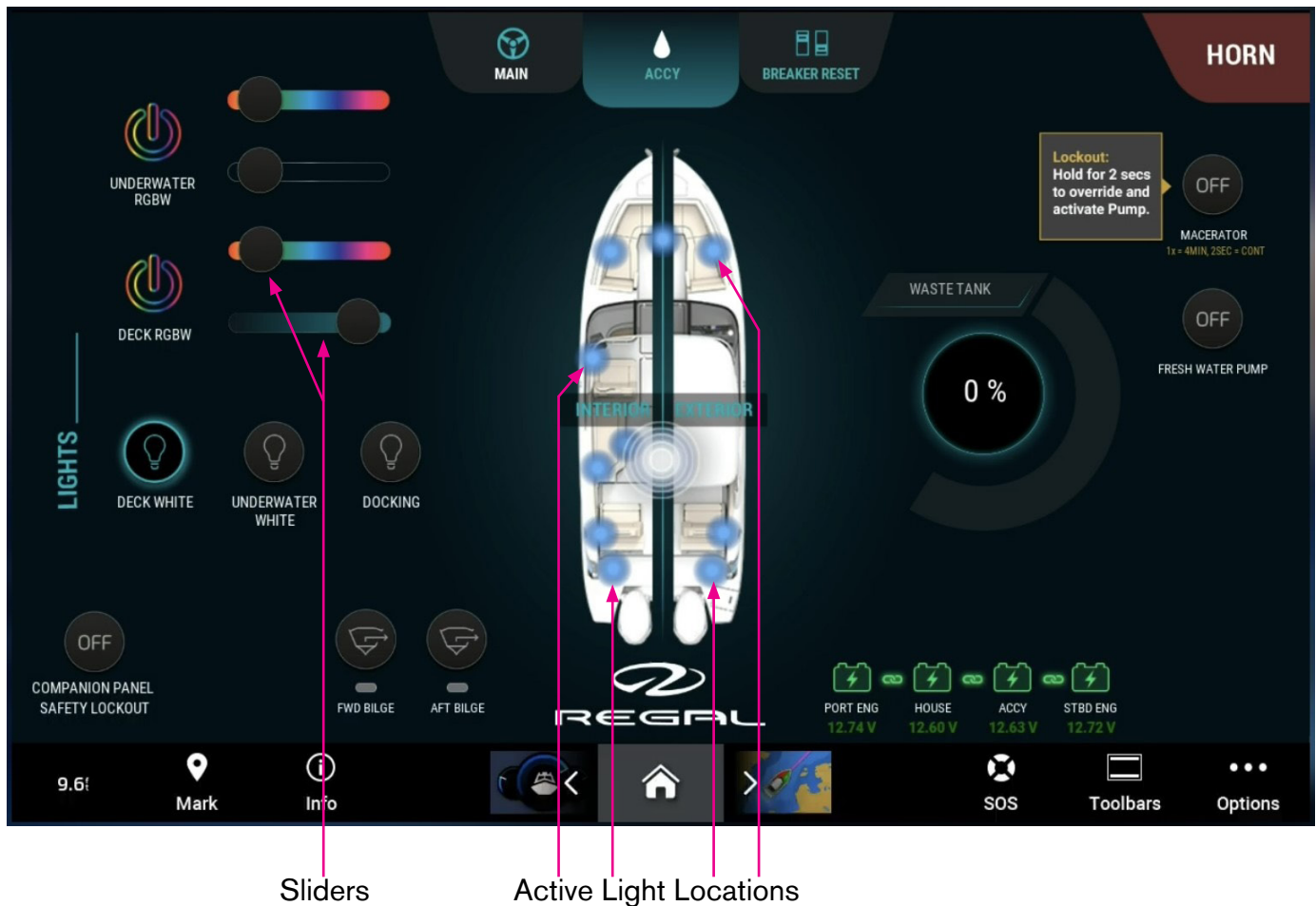
raise or lower the hatch you must first enable the actuators by holding the “Enable” icon for two seconds. You can then open the hatch with one touch and hold the down arrow icon to close.

Do not sit, stand on, or try to impede actuator equipment. Doing so can cause damage to the actuator or trip a digital breaker (see below).

Actuators will wear down over time. Have your actuators serviced by your dealer periodically.

Accessories

ACCY Screen



The “ACCY” or ‘Accessories’ page allows you to control general accessories around your boat.

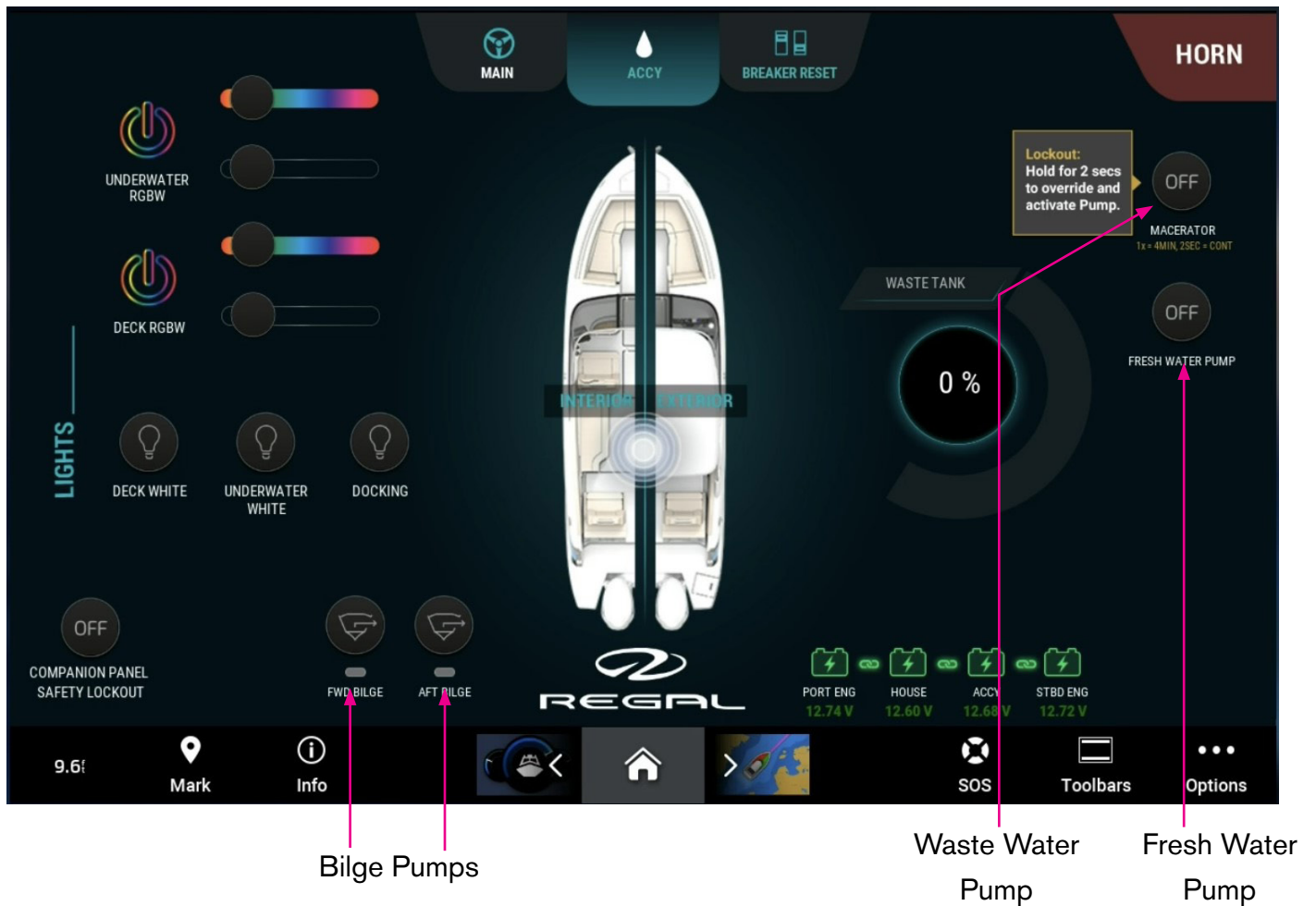
Lights

From the ‘Lights’ section, you can control deck lights, underwater lights, and docking lights.

For ‘RGBW’ lights, you can select color settings and brightness levels. To change a light’s color, use your finger to move the slider left or right. To change a light’s brightness, use your finger to move the slider left to dim or right to brighten.

Note: Some items are optional and may not be included in your vessel.

ACCY Screen



Fluids

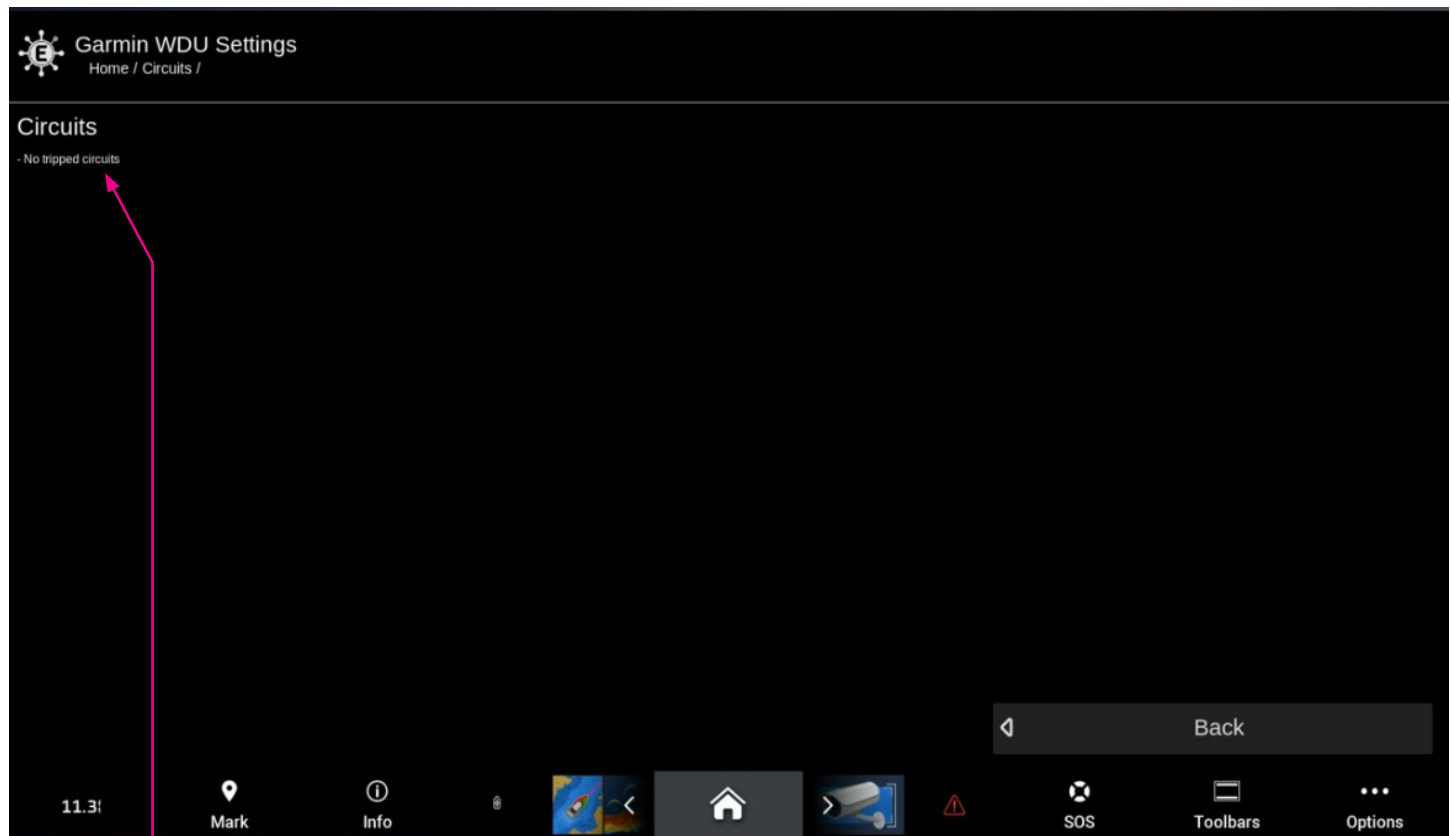
The Accessories page also displays your waste water levels. If your vessel comes equipped with optional overboard discharge for your waste management device, you can run the pump from the digital switching system by holding down the “Macerator” icon, however, dumping untreated waste into any inland bodies of water is illegal. Refer to “Overboard Discharge” in the General Vessel owners manual before operating your discharge pump.

Tap the “Fresh Water Pump” icon to run your freshwater pump.

To run the bilge pumps, tap the fore or aft icon.

Breaker Reset

Breaker Reset Screen



Tripped breakers
will appear here.

Most breakers in the digital switching system are digital. The “Breaker Reset” page will display any tripped breakers in the system.

Breakers trip when more power is sent through the breaker than the breaker can handle. Digital breakers can be easier to trip than physical breakers. Impeding the motion of an actuator is one way to trip a breaker.

You will receive a notification if a breaker trips.

You can reset a breaker when it appears on the Breaker Reset page by tapping the ‘Reset’ icon.

Functionality

Passenger Seat Display



Note: Some items are optional and may not be included in your vessel.

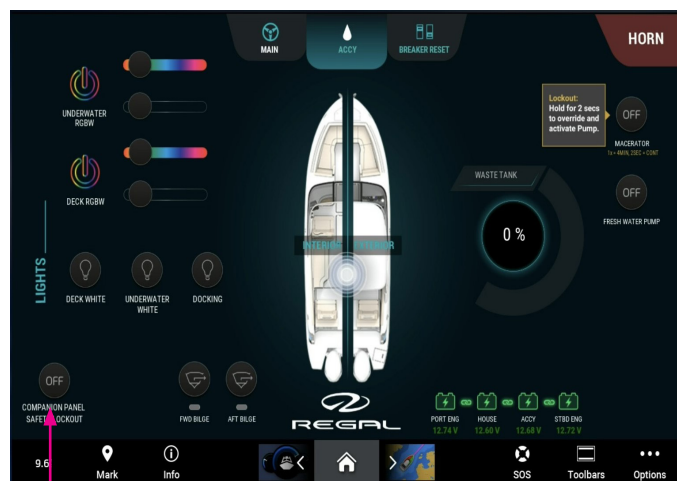
The helm is the only display that can control all devices and the only display with an overhead boat map.

The passenger display can access your digital charts, the Seakeeper, and the radio.

You can disable the passenger display from the helm screen by tapping the icon indicated on the right.

Note: Passenger display options may vary.

ACCY Helm Display



Passenger Display
Shut Off

Trouble Shooting

Follow these steps for simple trouble shooting solutions to potential problems.



While digital breakers are more sensitive than physical breakers, if a breaker is tripped often it may indicate an issue with the circuitry and you should have your vessel serviced by the dealer.

If problems persist after trouble shooting, have your dealer service your vessel.

Your dealer has received factory training; employ their services to solve advanced technical issues or any issues you are not sure how to solve.

- **Screen is dark and won't come on.**
 1. Screen may be asleep. Tap the screen.
 2. Screen may be off. Turn the screen on.
 3. Check wiring and battery connection.
 4. Cycle power by turning vessel on and off.
- **Screen is frozen.**
 1. Cycle power to reset.
- **Tap an icon, but nothing happens.**
 1. Check the digital breaker. Make sure it is not tripped.
 2. Check applicable equipment: ensure light bulbs are new, pumps have power flowing to them, and actuators are working properly.
 3. Cycle power to reset.

Audio

Stereo Performance Package

Your Ultimate Trim includes the Stereo Performance Package standard. The Stereo Performance package is a significant upgrade in audio equipment and sound quality. The package includes Fusion signature speakers, Fusion amplifier, a ten inch sub woofer, and additional transom speakers.

Refer to your model's manual for operational specifics of your Fusion audio system.

JL M6 6.5' Speaker



JL Audio Ultimate Audio Package

The JL Ultimate Audio Package is an upgrade to the Stereo Performance Package and is available as an option on all Ultimate boats. JL Audio is a significant upgrade in audio quality and is optimized for open air environments.

The package includes JL M6 6.5 inch and 7.5 inch speakers, a 10 inch subwoofer, and six and eight channel amplifiers.

The JL Audio package is controlled from the plotters under the “Media” tab. Refer to your model's manual for operational specifics of your audio system.

JL 10' subwoofer



E-Key

The E-key unlocks the ignition for your Volvo or Yamaha engines. To unlock, pass the key over the sensor in the ignition panel.

You only need one key to unlock the ignition even if you have two engines.

Volvo Penta E-Key Ignition Panel



Note: Ignition panel layouts may vary.

Once the ignition is unlocked, press the "Ignition" button once to turn on the ignition. Once on, press the "Start/Stop" button once to start the engine. Press the "Start/Stop" again to stop the engine.

Your vessel may also come with an e-key remote that can unlock the ignition remotely. To unlock the system, press the "On" button. To lock the system, press the "Off" button.

Note: E-key remote available on select outboard models only.

Yamaha Remote E-Key



Note: E-Key layouts may vary.

Refer to your manufacturer manual for specific starting instructions and model's manual for ignition panel locations.

Power Platform

The Ultimate package includes an electrically operated power platform. The power platform sits under the swim platform and can be raised or lowered to provide seating in the water or make it easier to enter and exit the boat from the stern. Actuators in the platform are controlled from the digital switching system and can be accessed on the “Accessories” page.

Raised Swim Platform



Note: Swim platform available on select stern drive models only.



CAUTION

AVOID INJURY OR PROPERTY DAMAGE!
ENSURE THAT POWER PLATFORM IS IN
THE UP POSITION
AND CLEAR OF ALL OBJECTS
BEFORE STARTING THE ENGINE!



CAUTION

AVOID INJURY OR PROPERTY DAMAGE
DUE TO IMPROPER OPERATION!
STERN DRIVE MUST BE TRIMMED
BELOW 20 DEGREES
OR FULLY CENTERED
TO OPERATE POWER PLATFORM.
ENGINE MUST BE OFF.

PowerTower/Power Hardtop

The Power Tower is operated by actuators controlled by the digital switching system. The tower can be lowered to allow passage under low clearance bridges or a reduced footprint when towing or storing. Otherwise, the Power Tower operates exactly like all other Regal towers and may come equipped with optional audio or water sports equipment.

To raise or lower the Power Tower, access either your “Actuator” or “ACCY” page within the digital switching system (see above).



CAUTION

WHEN OPERATING POWERTOWER
KEEP ALL BODY PARTS CLEAR
OF TOWER HINGE MECHANISMS.

Lowered PowerTower



When raising or lowering the Power Tower, make sure that all passengers are clear of the Power Tower hinge mechanism.

Lowered Power Hardtop





WARNING

AVOID BODILY INJURY OR DEATH DUE TO MISUSE OF THE POWERTOWER!

READ AND UNDERSTAND THE FOLLOWING WARNING!

DO NOT PULL MORE THAN ONE (1) PERSON AT A TIME FROM THE POWERTOWER. USE POWERTOWER ONLY FOR KNEEBOARDING, WATER SKIING, WAKEBOARDING OR WAKE SURFING. THIS POWERTOWER WAS NOT DESIGNED AND SHALL NOT BE USED FOR TUBING, TOWING OF BOATS, PERSONAL WATERCRAFTS, FLOATING DOCKS OR ANY OTHER TYPE OF FLOATING VESSEL OR CRAFT. THIS POWERTOWER SHALL NOT BE USED FOR PULLING PARASAILING OR ANY OTHER EQUIPMENT NOT APPROVED.

THIS POWERTOWER SHALL NOT BE USED TO PULL INFLATABLE WATER SPORTS TOYS OF ANY KIND. NEVER LET PASSENGERS SIT DIRECTLY BEHIND THE POWERTOWER ROPE ATTACHMENT POINT WHILE PULLING APPROVED WATER SPORTS ACTIVITIES. DO NOT LET LOOSE WATER SPORTS ROPE HANG FROM THE POWERTOWER. ALWAYS INSPECT THE POWERTOWER PRIOR TO USE TO ENSURE IT IS NOT DEFORMED, DEFLECTED, AND THAT ALL BOLTS ARE IN PLACE AND TIGHT. WATER LEVELS CAN VARY DAILY AND IN SOME CASES HOURLY.

BE AWARE OF MINIMUM CLEARANCE OF BRIDGES, TREE LIMBS, AND OTHER OBSTACLES, BEFORE ATTEMPTING TO PASS OR GO UNDER ANY OVERHEAD STRUCTURE. WHEN TOWING KEEP POWERTOWER IN THE FURTHEST FORWARD POSITION.

READ AND UNDERSTAND ALL SAFETY LABELS REGARDING THE POWERTOWER IN THIS OWNER'S MANUAL!

Care and Maintenance

Stainless Steel

Most of the cosmetic hardware on your vessel including interior drains, grab rails, brake light covers, and select gas ramps are stainless steel. Stainless steel is more durable and resistant to corrosion than other metal finishes.

To clean your stainless steel hardware, use any typical stainless steel cleaner. Avoid using hard bristle brushes and avoid scratching the stainless steel hardware.

Stainless steel is expensive to fix and oftentimes replacing an entire piece is more cost effective than repairing even the smallest scratch.

Chil Cool Vinyl

Your vessel may come equipped with optional Chil Cool Technology vinyl. Chil Cool vinyl keeps your seats cool to the touch even after hours in the hot sun.

Cleaning and caring for your Chil Cool vinyl is simple. Use a damp, soft cloth submerged in a mixture of 30:1 warm water to mild, non-bleach dish soap. Gently rub away any dirt or residue and then rinse with clean, warm water and wipe dry.

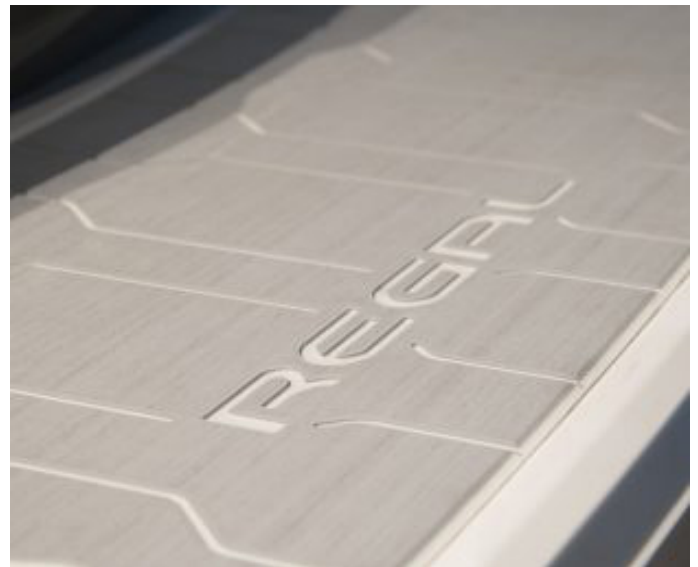
NEVER use bleach or bleach containing products, like eraser sponges, to clean your vinyl. Failure to care for your vinyl properly may void your warranty and damage your vinyl.

Seadek/Reflex

Your swim platform may be equipped with optional Seadek or ReFlex matting. Matting is made of UV protected, non-absorbent foam that stays cool to the touch and maintains traction even when wet.

Upgraded matting is designed to resist stains and, most of the time, hosing down the matting should be enough to keep it clean. If more thorough cleaning is required, use any, non-acid based household cleaners and soft rags or soft bristle brushes to remove any dirt or residue.

Charcoal Grey Seadek



Final Acknowledgments

We would like to welcome you again to the Regal family. We are happy you are here and look forward to sharing your boating journey with you. Thank you for taking the time to read this manual and become familiar with the operation and maintenance of your Regal Ultimate Trim.



Please refer to your specific model manual for detailed information on technical features, individual model operation, auxiliary equipment, and select troubleshooting. You can find your specific manual included in your owners information packet. You can access all our manuals online by going to <https://www.regalboats.com/regal-owners-manuals/>.

For any questions or issues that you can not answer using the manuals, please contact your authorized Regal Dealer or call our customer service line at 1(800) 877-3425.

With God's Help, We will Develop an Exceptional Team
Dedicated to Enriching Lives and
Providing an Awesome Boating Experience.