

# Marine Radio

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Your Houseboat has come equipped with a VHF Marine Band Radio. It is located at the helm, to the left of the steering wheel.



## *On/Off*

- ☞ Turn the volume Knob in a clockwise direction to turn *on* the radio.
- ☞ Make sure the H/L switch is in the Hi position.

## *Channel 16*

- ☞ **Use Channel 16 for hailing and emergencies only.** Never use Channel 16 for routine conversations.
- ☞ In case of an emergency, hail the National Park Service on channel 16. They monitor this channel 24 hours a day.
- ☞ To hail Boat Rentals, turn radio ON and to Channel 16, depress button on side of handheld microphone to talk, and release the button when you are finished talking. The Boat Rentals Office monitors this channel during regular business hours.

- ☞ Say “\_\_\_\_\_ (the name of the marina you are calling) BOAT RENTALS this is houseboat # \_\_\_\_\_” (number of your houseboat). For example: “Bullfrog Boat Rentals, this is houseboat # S11.”
- ☞ When communication is established, we will direct you to another channel. Commonly used channels are 10, 12, 68 and 72. Be sure to acknowledge that channel, before you change to the channel. Then turn to that channel, and we will continue the conversation.

Information you will need when you call us:

- 1. Your boat number.**
- 2. Your exact location, if known.**
- 3. Description of the problem.**
- 4. Any details on the troubleshooting you have already tried.**

- ☞ If you need assistance we will attempt to help you troubleshoot a problem over the radio. If we are not successful, we will dispatch a technician out to help you.
- ☞ For safety, our technicians can only be dispatched if they can fix the problem and return to our docks before dark. If we receive your call late in the day, we will gladly respond first thing the next morning.

# Marine Radio

## *Weather*

- ☞ W/X button or Channel 1 on your marine radio is the weather channel.
- ☞ This channel is updated periodically by the National Weather Service.
- ☞ Be sure to check this channel regularly during your trip to keep apprised of the changing weather conditions here at Lake Powell.

## *Request for Assistance Card*

- ☞ If for some reason you cannot reach us by Marine Radio, fill out your Request for Assistance Card located in your manual.
- ☞ Flag down a boat passing by and ask them to take it to the nearest marina for assistance.
- ☞ We will dispatch a technician out to your boat as soon as we can safely do so.

## *Other Information*

- ☞ Do NOT use VHF antenna as a flag pole or hang anything on the antenna.
- ☞ Channel 26 is the Marine Operator.
- ☞ Marine Radios transmit line-of-sight. So if you are back in a canyon, you may have to ask assistance from another boater with a radio to help contact us if you cannot get through directly.
- ☞ Profanity over the public airways is a federal crime.
- ☞ **Reminder:** Your Marine Radio is not a toy and should be operated only by a responsible adult.
- ☞ A VHF marine radio is not the same as a Citizen's Band Radio. CB lingo and 10-codes are not used.

## **COMMON TROUBLESHOOTING**

<b>Problem</b>	<b>Possible Causes</b>	<b>Remedies</b>
☞ Not transmitting or receiving	<ul style="list-style-type: none"> <li>☞ Low house battery</li> <li>☞ Radio not set on USA</li> <li>☞ Radio blocked by canyon walls</li> <li>☞ Set on 1 watt mode</li> <li>☞ Antenna has fallen down</li> </ul>	<ul style="list-style-type: none"> <li>☞ Charge house battery</li> <li>☞ Push USA/Int button</li> <li>☞ Move the houseboat to open water</li> <li>☞ Push 1/25 or Hi/Lo button to change to 25 watt</li> <li>☞ Raise antenna</li> </ul>

# Engines/Helm

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## ***YOUR HOUSEBOAT HAS TWO ENGINES...***

- ☞ For greater maneuverability and power.
- ☞ To provide you with a *spare* in case of engine failure.

Your engines are well maintained, but occasional breakdowns can occur. The *spare* is to ensure your safety and save you inconvenience. Don't let the loss of one engine delay your vacation. Proceed on your planned itinerary with the good engine and we will catch up to you as soon as possible and make necessary repairs.

## ***GAUGES***

### ***Tachometer***

- ☞ Monitors the engine revolutions.
- ☞ Wide-Open Throttle (WOT) should be 4800-5200 RPM's.
- ☞ The most efficient cruising RPM will be 3800-4200 RPM

### ***Fuel Gauge***

- ☞ Key must be on for fuel level to register.
- ☞ Right gauge is for the Toy Tank
- ☞ Left gauge is for both engines and the Generator

### ***Horn***

- ☞ Push in the HORN button at the helm.

**NAUTICAL NOTE:** When leaving a dock, signal with 1 long blast (4 seconds) and 3 short blasts (1 second each).

## ***THROTTLE***

### ***Setting Neutral Throttle for Starting***

- ☞ Confirm that the throttle is in neutral position.
- ☞ Turn the key to first click – Beeper will sound.
- ☞ Push and hold “black” command button the red light will go solid and the beeping will stop.
- ☞ Turn key to engage starter. If the engine fails to start in 10 seconds, return key to ON position, wait 30 seconds and try again.
- ☞ If the engine fails to start push and hold the command button while pushing the throttles forward one detent. This will allow you to increase the RPM's for starting only.
- ☞ Return throttle lever to center position after warm-up.
- ☞ Red light will be solid to indicate that the shift control is activated, and lever movement will engage prop.

*If engine is still difficult to start, squeeze primer bulb, located on the fuel line near the engine, until firm.*

### ***Cold Start***

- ☞ Same as regular start, but warm up time needs to be extended.

## ***GETTING UNDER WAY***

### ***From Neutral Throttle***

- ☞ Return throttle to neutral position.
- ☞ Red light on controls will be solid.
- ☞ Push throttle lever forward to go forward or pull back for reverse.
- ☞ Advance throttle to increase speed.
- ☞ Always pause in neutral before changing gears.

# Engines/Helm

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## *Shut Down*

- ☞ Return throttles to neutral position.
- ☞ Turn key to *off*.

## **HYDRO-LOCK**

Hydro-locking of an engine occurs when water enters the engine cylinders. The starter will click, but the engine won't turn over.

### *Caused by*

- ☞ Overloading the back deck.
- ☞ Large waves behind boat.
- ☞ Dropping lake level which increases the angle of a beached boat.

If you suspect your engine has become hydro-locked, get word to the nearest marina and a technician will be sent out help you.

## **RAISING ENGINE**

- ☞ Electric tilt toggle is located on the left side of the engine, below the cowling (cover).



### *Changing the Prop*

- ☞ Remove keys from ignition (to avoid someone else accidentally starting the engine).
- ☞ Raise engine.
- ☞ Unscrew lock nut.
- ☞ Remove spacer washer.
- ☞ Remove Prop.
- ☞ Reverse procedure to install the new propeller.

## **FLYING BRIDGE CONTROLS**

### *Operation from Upper Deck*

To get power to the upper deck controls:

- ☞ Engines should be running.
- ☞ At the lower helm – put engine control levers in neutral position.
- ☞ At the upper helm with the control handles in neutral – push the “black” transfer button.
- ☞ Red light will come on.
- ☞ Push throttle lever forward to go forward or pull back for reverse.

# Engines/Helm

- ☞ To transfer control back to the lower helm, set upper helm controls to neutral, then return to the lower helm and press the “black” transfer button to regain control.

### *Don't Drive From The Upper Deck:*

- ☞ In any wakeless area, including the marina.
- ☞ When approaching a dock.
- ☞ When approaching a beach.
- ☞ In narrow channels.
- ☞ *In any situation that requires maneuvering your vessel, always pilot from the main helm*

*Note: Do not try to start the engines from the upper helm.*

## COMMON TROUBLESHOOTING

Problem	Possible Causes	Remedies
Engine doesn't turn over	<ul style="list-style-type: none"> <li>☞ Is the throttle in neutral</li> <li>☞ Low battery</li> <li>☞ Hydrolock</li> </ul>	<ul style="list-style-type: none"> <li>☞ Put throttle in neutral</li> <li>☞ Charge battery from the Generator</li> <li>☞ Call the marina for help</li> </ul>
Engine turns over but won't start	<ul style="list-style-type: none"> <li>☞ No fuel</li> </ul>	<ul style="list-style-type: none"> <li>☞ Squeeze primer bulb, located on the fuel line near the engine, until firm.</li> </ul>
Engine won't turn off	<ul style="list-style-type: none"> <li>☞ Engine harness has become Unplugged at the engine</li> </ul>	<ul style="list-style-type: none"> <li>☞ Unplug the fuel line from the engine or reconnect the harness</li> </ul>
No light on control	<ul style="list-style-type: none"> <li>☞ Turn off key</li> </ul>	<ul style="list-style-type: none"> <li>☞ Reset the MMC breaker located in the Generator compartment on the rear deck</li> </ul>

# Houseboat Batteries

The 12-volt house system includes cabin lights and navigational lights, water pumps, the horn and the VHF Radio.

## ***Charging***

- ☞ Start the Generator following Generator Starting Procedures.
- ☞ Turn on the breaker for the inverter on the AC panel.
- ☞ Charging is most efficient with unnecessary DC breakers off.
- ☞ The engine start batteries will charge from running the engines.

## ***DC Breaker Panel***



- ☞ DC Main
- ☞ Lights
- ☞ Spreader lights
- ☞ Water pump
- ☞ Fresh water
- ☞ Water heater
- ☞ Furnace
- ☞ Accessories
- ☞ Docking lights
- ☞ Fuel transfer
- ☞ 12 Volt DC outlets
- ☞ CD Player
- ☞ Refrigerator

***Please Note:***

- ☞ Turn off the Water pump breaker while underway beaching, or unbeaching. Once you are beached, leave this breaker off for an additional 156 minutes to let sand and sediment in the water settle.
- ☞ It is not necessary to switch on the bilge pump unless water is noted. The bilge pump is wired to automatically switch on when water is present.

## ***DC Breaker***

- ☞ If you should lose DC power and your batteries are fully charged, reset the DC breaker located in the generator compartment above the house batteries.



## ***BATTERY TEST***

### ***1. House Battery***

- ☞ Located in the upper center of the main panel is the DC volt gauge.
- ☞ Push toggle switch to position 1
- ☞ Should be between 11-13 volts when generator is not running.
- ☞ When generator is running and the Inverter is on, should be 12.5 volts or greater.
- ☞ The Generator must be run 6 to 8 hrs per day to keep the batteries charged.

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# Houseboat Batteries

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- ☞ A low battery alarm will sound and the LED on the control panel will flash when the battery's drop to 10.5 volts.
- ☞ DC power will shut down at 10 volts.

## 2. Engine or Start Battery

- ☞ Push toggle switch to position 2
- ☞ Should be 12 or greater when generator is not running.
- ☞ When generator is running, should be 12.5 or greater.

## 3. Generator Crank Battery

- ☞ Push toggle switch down and the volts will register.
- ☞ Should be 12 or greater when generator is not running.
- ☞ When generator is running, should be 12.5 or greater.

**Remember:** Each light or appliance will need to be turned on individually once the breaker is on.

## *Tips for Getting the Most from your Houseboat Batteries*

- ☞ When generator is running ALWAYS have the AC MAIN and Inverter breakers on.
- ☞ Charge daily.

**NOTE:** Deep Cycle batteries are used to extend the time between charging. However, they also require more time to recharge when they are discharged for too long. When the lights dim and the pumps slow, a recharge is overdue.

# Generator

*The Generator is located in the center hatch on the rear deck of your houseboat.*



## **Starting/ Warm Up**

- ☞ Turn on the blower switch
- ☞ The remote start is located on the wall of the cabin at the top of the stairs to the lower berth.



- ☞ Confirm that the MAIN Switch and all circuit breakers are OFF.
- ☞ Hold the ON switch and momentarily press the start switch till the generator starts or for 20 seconds no longer.
- ☞ If the engine fails to start, wait 20 seconds and repeat.

**NOTE:** The engine won't start with a load on the circuit. By continually holding the starter switch, you can run down the battery or damage the starter.

- ☞ Allow the engine to warm up for 5 minutes.
- ☞ Switch the AC MAIN breaker ON.
- ☞ You may now turn on individual breakers to provide power to your houseboat.

**NOTE:** Your generator also has an ON/OFF rocker switch on the generator *AC Breaker Panel*



- ☞ Cabin Outlets
- ☞ Galley Outlets
- ☞ Air Conditioner
- ☞ Inverter (leave on at all times)
- ☞ Stove/Microwave
- ☞ TV / Stereo

## **Inverter**

The inverter panel is the R6 Remote Control at the main AC Panel.

The stove, microwave, TV and Stereo all run off the inverter i.e. these appliances will all work without the Generator running

- ☞ Push power ON on the R6 Remote
- ☞ Turn on individual breakers

## **GFI Outlets**

Some electrical outlets have a GFI breaker. Push in the *reset* button to reset.

## **To Shut Down Generator**

- ☞ Turn off all AC circuit breakers
- ☞ Turn AC MAIN Switch to off
- ☞ Push STOP button
- ☞ **TURN OFF BLOWER**

# Generator

## Special Notes

- ☞ If your houseboat breaks anchor and/or drifts sideways onto a beach, the generator must be shut down immediately to prevent the cooling system from being fouled with sand and silt. This can cause overheating and disable your generator.

- ☞ Below deck generators are equipped with coolant (lake water) strainers. Do not open this unit unless no water is pumping from the side of the houseboat during generator operation, or you hear excessively loud operation:

## COMMON TROUBLESHOOTING

Problem	Possible Causes	Remedies
No generator power	☞ AC MAIN breaker off	☞ Check breaker on panel
Outlet doesn't work	☞ Is the generator on? ☞ AC MAIN breaker off?  ☞ Is that area's breaker on? ☞ Is GFI tripped?	☞ Start generator ☞ Check breaker on panel ☞ Check breaker on panel ☞ Reset GFI Outlet
Generator Shut down	☞ Out of Fuel	☞ Check gauges
Generator cranks but won't start	☞ Out of Fuel	☞ Refuel
CO Alarm beeps 4 beeps every 5 seconds	☞ Engines/Generator running	☞ Turn off Engines/Generator ☞ Evacuate crew out of cabin ☞ Open doors and windows ☞ Press the RESET/SILENCE
CO Alarm beeps 1 beeps every minute	☞ System Error	☞ Press the REST/SILENCE button for more than 15 seconds to shut off CO Alarm ☞ Contact Boat Rentals to replace alarm.

# Water Pressure

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## ***YOUR HOUSEBOAT IS SUPPLIED WITH 100 GALLONS OF FRESH WATER.***

### ***Fresh Water Holding Tank***

- ☞ Fresh water refill is located on the outside starboard front corner and is marked Shore Water Fill



- ☞ Open only when refilling tank from a **POTABLE** water hose located at any marina.
- ☞ The fresh water has an *on-demand* pump that operates only when a faucet is turned ON.
- ☞ You must have the breaker for Fresh Water ON on the DC panel.

### ***Lake Water Pressure***

- ☞ Turn on the Water Pump breaker on the DC panel.

### ***Faucets***

- ☞ The kitchen Large Faucet is lake water.



- ☞ Small Faucet is fresh water.



- ☞ All sinks and showers empty directly into the grey-water tank.

### ***Head/Toilet***

- ☞ Water pump breaker must be on.
- ☞ To fill toilet bowl with water, lift up on the foot pedal for a few seconds.
- ☞ To flush, step down on the foot pedal.
- ☞ The head empties directly into the Black water Tank.

***Note: Be sure pedal returns to the up position or flooding can occur.***

# Water Pressure

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## ***COMMON TROUBLESHOOTING***

<b>Problem</b>	<b>Possible Causes</b>	<b>Remedies</b>
No Lake Water	<ul style="list-style-type: none"><li>☞ WATER PRESSURE breaker may not be on</li><li>☞ Low batteries</li><li>☞ Lost prime</li></ul>	<ul style="list-style-type: none"><li>☞ Turn on breaker</li> <li>☞ Charge batteries</li><li>☞ <i>Press down</i> toilet flush for about a minute to restore prime</li></ul>
No fresh water	<ul style="list-style-type: none"><li>☞ Out of water</li> <li>☞ Fresh Water breaker not on.</li></ul>	<ul style="list-style-type: none"><li>☞ Refill at marina with POTABLE water</li><li>☞ Turn on Breaker</li></ul>

# Hot Water

## ***YOUR BOAT IS EQUIPPED WITH A 10-GALLON CAPACITY WATER HEATER.***

### ***To Start***

- ☞ Turn *on* the DC MAIN.
- ☞ Turn *on* the valve for your propane tank.
- ☞ Turn *on* the Water PUMP breaker located on the DC panel.
- ☞ Turn *on* the WATER HEATER breaker located on the DC panel.
- ☞ Turn *on* the WATER HEATER switch located under the main electrical panel.

- ☞ The red light will be on when water heater is lighting.
- ☞ Allow approximately 30 minutes for the water to heat.

**Note:** If water is already hot, water heater light will not come on nor will the water heater light.



## ***COMMON TROUBLESHOOTING***

<b>Problem</b>	<b>Possible Causes</b>	<b>Remedies</b>
Water Heater does not light	<ul style="list-style-type: none"> <li>☞ Propane may not be on</li> <li>☞ Propane might not be full</li> </ul>	<ul style="list-style-type: none"> <li>☞ Check your propane to be sure it is on</li> <li>☞ Check your propane to be sure it is full.</li> </ul>
The red light on the master switch does not come on	<ul style="list-style-type: none"> <li>☞ DC MAIN might not be on</li> <li>☞ WATER HEATER breaker may not be on</li> <li>☞ Water may already be hot</li> </ul>	<ul style="list-style-type: none"> <li>☞ Turn on DC MAIN</li> <li>☞ TURN on WATER HEATER breaker on DC panel</li> </ul>
Ran out of hot water	<ul style="list-style-type: none"> <li>☞ You only have 10 - gallons of hot water</li> </ul>	<ul style="list-style-type: none"> <li>☞ Allow 30 minutes to heat more water</li> </ul>

# Holding Tanks

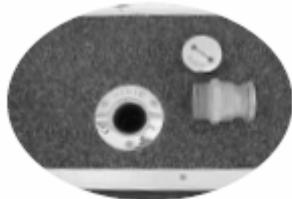
***YOUR HOUSEBOAT HAS BEEN EQUIPPED WITH A BLACK WATER TANK AND A GREY WATER TANK THAT HAVE A COMBINED 600-GALLON CAPACITY.***

## ***Full Service Pumpout***

- ☞ Radio into any of the Rental Docks.
- ☞ Give us an estimated time for arrival.
- ☞ We will direct you where to park and will pump out your houseboat for you.

## ***Self Service Pumpout***

- ☞ Located in any marina.
- ☞ The pumpout fittings are located on the stbd side of the boat. There are two fittings, one grey water and one black.



- ☞ Remove the cap.
- ☞ Screw the correct sized fitting into the pumpout port on your houseboat. (Fittings are available at the dock on the pumps.)



- ☞ Attach the pump-out hose to the fitting.



- ☞ Open valve and follow the direction on the pump.
- ☞ When finished, close the valve *before* removing the hose.
- ☞ Remove the fitting from your houseboat and replace on dock.
- ☞ Place the end of the lake water hose inside the pump out portal.



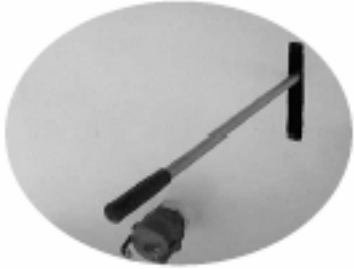
- ☞ Fill the tank with approximately 2 to 3 gallons of water.
- ☞ Empty one packet of provided chemical into the head/toilet inside and flush.
- ☞ Put all the hoses back and replace the cap on the WASTE opening. **DONE!**

# Holding Tanks

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## *Remote Station Pumpouts*

- ☞ See HELP PRESERVE in your Nautical Notes for locations of Remote Pumpouts.
- ☞ Unscrew WASTE cap.
- ☞ Place end of hose into opening.
- ☞ Work the hand lever to pump.



## **COMMON TROUBLESHOOTING**

<b>Problem</b>	<b>Possible Causes</b>	<b>Remedies</b>
Odor	<ul style="list-style-type: none"><li>☞ Holding tanks are full</li></ul>	<ul style="list-style-type: none"><li>☞ Pumpout at the nearest marina or remote station</li><li>☞ After pumping out, add a packet of chemical and two gallons of water in the head</li><li>☞ Leave some water in the bowl to trap any odor</li></ul>

# Gas/Propane

## *Fuel Tanks*

- ☞ Your houseboat has a port and starboard fuel tank.
- ☞ Port tank is for both engines and the generator.
- ☞ Starboard tank is for the Toys.
- ☞ Fuel fittings are located on the rear deck in front of engine covers.
- ☞ Each fuel tank holds 115 gallons.

## *Checking Fuel Level*

- ☞ Fuel gauge is located on the helm.
- ☞ Power to the helm is required.

## *Refueling*

- ☞ Turn off grill.
- ☞ Turn off all propane tanks 10 minutes prior to refueling.
- ☞ Turn off all electrical breakers.
- ☞ Turn off the generator.
- ☞ Close all doors and windows.

**Caution:** NEVER siphon gas from your houseboat fuel tanks.

**NOTE:** Please have Captain and Crew remain on board your houseboat. **Wait for Fuel Dock personnel to assist you.**

## *Propane Tank*

- ☞ Propane tanks are located on the Starboard side of the front deck
- ☞ A valve is located on the top of each tank. Turn counterclockwise to open. Turn clockwise to close.



## **COMMON TROUBLESHOOTING**

<b>Problem</b>	<b>Possible Causes</b>	<b>Remedies</b>
Propane Smell	<ul style="list-style-type: none"> <li>☞ The grill is not turned off all the way</li> <li>☞ Range not off</li> </ul>	<ul style="list-style-type: none"> <li>☞ Turn off grill and tank unless</li> <li>☞ Make sure burner valves are all the way off</li> </ul>

# Refrigerator

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## *How to Start*

- ☞ Confirm that the propane is ON or that the generator is running. (See below.)
- ☞ DC main along with refrigerator breaker must be on at main panel.
- ☞ Push the ON/OFF button on the refrigerator panel ON.



- ☞ Push the mode button to choose between propane or 110V power to operate the refrigerator or set to AUTO.
- ☞ If using the generator, you must have the DC MAIN ON.
- ☞ Refer to the instructions located inside the refrigerator/freezer for more details.

## *Getting the most out of your Refrigerator*

- ☞ Put cold or frozen food into the refrigerator.
- ☞ Open door only when necessary.
- ☞ Use ice chest for beverages.
- ☞ Don't pack the refrigerator full, leave space for air to circulate freely.
- ☞ Cover foods with strong odor.
- ☞ Cover foods that easily absorb odor.

- ☞ The coldest areas in the refrigerator are under the cooling fins and at the bottom.
- ☞ Warmest areas are on the upper door shelves.
- ☞ The refrigerator will operate more efficiently if houseboat is level.
- ☞ Beach your houseboat so refrigerator side will be in the shade in the afternoon.
- ☞ The refrigerator will not cool as efficiently as your household refrigerator.

## *Getting the most out of your freezer*

- ☞ The freezer on your houseboat is not designed for deep or quick freezing.
- ☞ Coldest part of your freezer is at the bottom of the aluminum liner.
- ☞ Ice cubes can be made in the freezer if placed in direct contact with bottom of freezer.
- ☞ Cool items in fridge before placing in freezer.
- ☞ Condensation from warm items being placed in the freezer will adversely affect the operation of the freezer.

# Refrigerator

## COMMON TROUBLESHOOTING

Problem	Possible Causes	Remedies
Not cooling properly	<ul style="list-style-type: none"> <li>☞ Is the refrigerator on?</li> <li>☞ Is there too much in your refrigerator?</li> <li>☞ Was everything cooled down before you put it in the refrigerator?</li> <li>☞ How hot is the outside air temperature?</li> </ul>	<ul style="list-style-type: none"> <li>☞ Turn ON the refrigerator.</li> <li>☞ Check the bottles of propane to be sure they are ON and full.</li> <li>☞ Leave plenty of room around items for air circulation.</li> <li>☞ Put items on ice to cool down and then put them back in the refrigerator.</li> <li>☞ Check your temperature setting. If it is the coldest setting, it is as cool as possible. Be sure to put perishables on the ice in the cooler.</li> </ul>
Check Light Comes On	<ul style="list-style-type: none"> <li>☞ You need to <i>reset</i> the igniter</li> </ul>	<ul style="list-style-type: none"> <li>☞ Turn OFF the master switch, then turn back ON at the master switch to reset.</li> </ul>
There is a clicking sound and a blinking orange light coming on from my refrigerator	<ul style="list-style-type: none"> <li>☞ You are out of propane</li> </ul>	<ul style="list-style-type: none"> <li>☞ Switch bottles of propane and go through restart.</li> </ul>

# Range

## *To Light the Burners*

- ☞ Confirm that the propane is on.
- ☞ Inverter breaker must be on along with Stove/Microwave breaker.
- ☞ Turn control knob counter clockwise to the LITE position.
- ☞ Adjust heat, with knob, to the desired flame size.



## *To Light the Oven*

- ☞ Confirm that the propane is on.
- ☞ Adjust oven temp at control panel on the top of the range.
- ☞ *Open oven door and find pilot light area under the bottom shelf.*

*I*

## *To Shut Down*

- ☞ Turn all knobs to OFF.

## **COMMON TROUBLESHOOTING**

<b>Problem</b>	<b>Possible Causes</b>	<b>Remedies</b>
Burners or oven won't light	☞ Propane is not ON or is empty	☞ Check propane at bottle and be sure it is ON and is full.

# Grill

## **To Light**

- ☞ Confirm that propane is on.
- ☞ Open lid of grill.
- ☞ Visually check to be certain where you will light the grill.
- ☞ Turn knob to Light to allow propane to flow into the tube.
- ☞ Use the *igniter* to light the grill.
- ☞ Adjust flame to desired setting.



**Caution:** NEVER stand over the grill when lighting.

## **To Shut Down**

- ☞ After cooking, turn setting to HIGH for a few minutes to burn any excess food or grease from the grate.
- ☞ Turn knob clockwise to shut off.
- ☞ Close lid.
- ☞ DO NOT remove lava rocks.

**NEVER** put wood into the grill. Doing so could cause severe damage or injury.

## **COMMON TROUBLESHOOTING**

<b>Problem</b>	<b>Possible Causes</b>	<b>Remedies</b>
Grill won't light	<ul style="list-style-type: none"><li>☞ Propane is off</li><li>☞ Propane is empty</li></ul>	<ul style="list-style-type: none"><li>☞ Turn on propane</li><li>☞ Be sure propane is full</li></ul>

# Heater

## *On*

- ☞ Turn ON DC MAIN breaker on the DC panel.
- ☞ Turn ON the Furnace breaker on the DC panel.
- ☞ Be certain that the propane is on.
- ☞ Set thermostat to desired temperature.
- ☞ The fan will come on and run for 2-5 minutes before you feel heat come out of the vents.

## *Off*

- ☞ At thermostat, move white switch at button to OFF.
- ☞ Turn OFF HEATER breaker at DC panel.
- ☞ The fan will continue to run for 2-3 minutes after you have shut down the heating system.



## ***COMMON TROUBLESHOOTING***

<b>Problem</b>	<b>Possible Causes</b>	<b>Remedies</b>
Heater won't light	<ul style="list-style-type: none"><li>☞ DC main is Off</li><li>☞ Heater breaker is off</li><li>☞ Thermostat is off</li><li>☞ Low battery</li></ul>	<ul style="list-style-type: none"><li>☞ Turn on DC MAIN</li><li>☞ Turn on the HEATER breaker</li><li>☞ Turn on the thermostat</li><li>☞ Charge the battery</li></ul>

# Cooling

## *On/Off*

- ☞ Generator must be running.
- ☞ Turn *on* AC Main breaker.
- ☞ Turn *on* AIR CONDITIONER breaker. The thermostat is located on the main salon wall.
- ☞ Directions specific to the model on your houseboat are on the thermostat.
- ☞ The fan may run 10-20 minutes before you feel cool air coming out of the vents.
- ☞ NEVER adjust temperature more than 20° less than the current temperature inside the cabin.

- ☞ Turn *off* the AIR CONDITIONER breaker.



## *Shut Down*

- ☞ Turn *off* your thermostat approximately 15 minutes prior to turning off the generator.

## **COMMON TROUBLESHOOTING**

<b>Problem</b>	<b>Possible Causes</b>	<b>Remedies</b>
Cooler won't operate	<ul style="list-style-type: none"><li>☞ Is the generator on?</li><li>☞ Is the AC Main on?</li><li>☞ Are the AIR CONDITIONER breakers on?</li></ul>	<ul style="list-style-type: none"><li>☞ Start the generator</li><li>☞ Turn on the AC Main</li><li>☞ Turn on AIR CONDITIONER breakers</li></ul>

# Accessories

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## ***Microwave***

- ☞ Turn *on* Inverter breaker.
- ☞ Turn *on* STOVE/ MICROWAVE breaker on the AC panel.
- ☞ Use microwave as you would at home.

## ***Coffee Maker***

- ☞ Generator must be running.
- ☞ Turn AC main switch to ship's Gen.
- ☞ Turn *on* GALLEY OUTLETS breaker on the AC panel.
- ☞ Use the coffee maker as you would at home.

## ***Blender, Toaster and Can Opener***

- ☞ Generator must be running.
- ☞ Turn AC main switch to SHIP'S GEN.
- ☞ Turn *on* GALLEY OUTLETS breaker on the AC panel.
- ☞ Use these appliances as you would at home.

## ***TV / VCR / DVD***

- ☞ Turn *on* INVERTER BREAKER.
- ☞ Turn *on* TV/STEREO breaker on the AC panel.
- ☞ Use as you would at home.

## ***Stereo (in the cabin)***

- ☞ Turn on INVERTER breaker.
- ☞ Push power ON on the R6 Remote
- ☞ Turn on TV/STEREO breaker
- ☞ Push the power button on the receiver.
- ☞ The radio stations on the lake are limited and varied by location.

## ***CD player (On the top deck)***

- ☞ Turn on DC Main Breaker
- ☞ Turn on CD PLAYER Breaker

## ***Back Deck Camera***

- ☞ Turn on DC Main Breaker
- ☞ Turn on ACCESSORIES Breaker
- ☞ Push POWER button on the unit

## ***GPS/ Depth Finder***

- ☞ Turn on DC Main Breaker
- ☞ Turn on ACCESSORIES Breaker
- ☞ Push POWER button on the unit



# Accessories

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## *Fuel Transfer Pump*

- ☞ Turn on DC Main Breaker
- ☞ Turn on FUEL TRANSFER Breaker
- ☞ Pull out REMOTE FUEL STATION EMERGENCY SHUT OFF on back deck



- ☞ Turn ON switch on transfer pump and begin fueling

