

HOUSEBOATS.com

Shasta Lake Resorts LP  
22300 Jones Valley Marina Dr.  
Redding, CA 96003

Service 530 275 7955  
Fax 530 275 3523  
www.houseboats.com

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# Titan

## Operating Manual



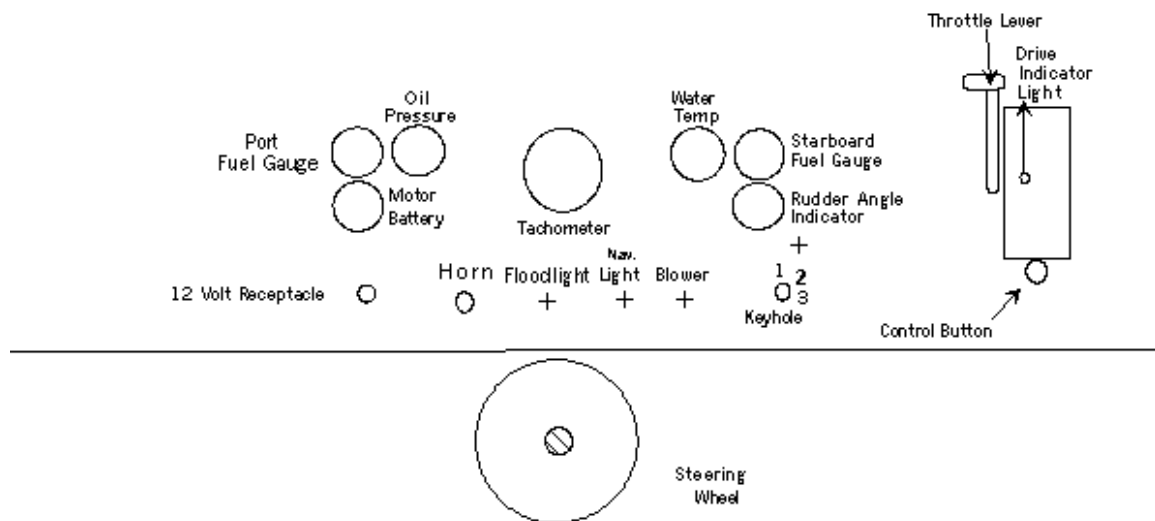
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## Starting the Boat

Starting the engine is an easy process.



To Start the Titan

1. **Post an observer on the aft deck** to watch for people in the water, approaching watercraft, and other obstacles.
2. **Turn on the blower switch** located next to the ignition on the helm. Let it run for a minimum of 5 minutes.
3. **Turn the key clockwise one click** and an alarm will sound. Wait a minimum of three beeps to allow the control panel to activate.
4. **Push the throttle lever on the control box to the neutral position.**
5. **Press and hold the CONTROL BUTTON for three seconds then release.** This will deactivate the alarm, and the drive indicator light will begin flashing, then immediately shine constant.

6. Press the control button and hold down while moving the throttle lever forward – about one inch. **Drive indicator light will now flash.**
7. **Turn the key clockwise** to start the engine. If the engine does not start within a few seconds, push the throttle lever forward another inch and try again. This will give the engine a little more gas.

Note: Be sure you do not pull the throttle lever back to the center position, or you will have to turn the key off and go back to step three.

### After the Engine Has Started

Immediately after starting the engine, the drive indicator light is still flashing indicating that you have not engaged the drive and are in neutral. At this time the throttle lever only affects the idle speed of your houseboat motor.

1. **Turn off the blower switch.**
2. **Allow the engine to warm up** to 160 degrees.
3. **Pull the throttle lever back to the center position.** The drive indicator light will stop flashing, and shine constant.
4. Pull the throttle lever back to back up, or push it forward to go forward.

Note: Remember to have an observer on the back deck until the boat is clear of the shore or dock and traveling forward in open water

### If the engine will not start

- **Check that the light on the control box is blinking.** If not, refer to the section above to start the Titan.
- **Check your fuel gauges.** You may be out of gas.
- **Try again in fifteen minutes.** The engine may be flooded.

Note: Do not hold the key down for more than 30 seconds or you may damage the starter.

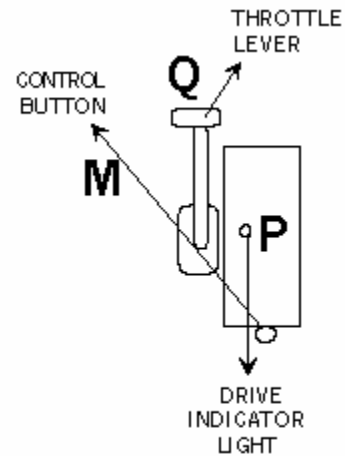
## Flying Bridge

The flying bridge allows you to maneuver your houseboat from the upper deck. It is for cruising only. Because you cannot see the front or back of the houseboat **never** drive from the flying bridge while docking, beaching, or backing up your houseboat. Before

transferring control to the upper deck, be sure you are in open water. To transfer control between helms, follow the steps below.

To Transfer Control to the Flying Bridge

1. **Start the engine at the lower helm.**
2. **Place throttle lever in center position.**
3. **Press the control button at the helm on the flying bridge.** The drive indicator light will flash.
4. **Put the throttle lever at the flying bridge in the center position.** The drive indicator light will stop blinking and shine constant. This completes the transfer. You can now maneuver the houseboat from the flying bridge. Return control back to the lower helm in the same manner.



## Driving Techniques

Your houseboat handles like any other inboard/outboard, only slower. The key is to anticipate your direction and speed well in advance. Here are a few points to consider while at the helm of your houseboat.

- Maintain a slow, safe speed.
- Always be on the lookout for debris in the water. If it is unavoidable, place the drive in neutral and coast past the object.
- Whenever possible, navigate into the wind.
- Think of reverse as your brakes. To slow your forward motion, shift into reverse.
- To turn very tightly, begin your turn going forward slowly, put the throttle lever in the center position and turn the wheel in the opposite direction, shift back into reverse and briefly rev the engine. Then, return the throttle to the center position, turn the wheel back in the direction you want to go, shift into forward and briefly rev the engine. Repeat this forward/reverse method until you have made your turn.
- The faster you are traveling, the wider your turn will be.
- Shift from forward to reverse or vice versa very slowly. Shifting quickly can stall the electronic shifting unit.

- If you lose control of the boat, try to stay calm. The worst you will probably do is damage the propeller.

NOTE: If you damage the propeller, park the boat, turn off the engine and contact the marina.

- Use an observer on the aft deck when backing up, making turns in tight places or heavy traffic.

## Beaching Your Houseboat

You must beach your houseboat every evening. Never beach or approach any dock while driving from the fly bridge. It is best to choose a location protected from the wind, and the wake of other vessels. It is important that your location has at least one clear houseboat length on each side so you will have enough room to maneuver.

1. Choose a landing spot that is not too rocky so you will be able to hammer your stakes into the ground. Also, you need a shoreline that is steep enough so the bow of your boat will reach land before the bottom of the hull does.
2. Proceed at idle speed straight at the shore. As you near the shoreline, use reverse to soften the landing.
3. After landing, throttle forward at about 2,000 rpm steering straight into the shore. This will hold the houseboat in place and keep it perpendicular with the shoreline as a crew member drives the stakes into the ground and secures the lines.
4. The captain should stay at the helm during the entire tie-down process. Secure all 4 lines from the stern (rear) of the vessel. 2 at 30 degree angle and 2 at a 20 degree angle. If at all possible, use a stump, tree or some other well-anchored object to secure your lines.
5. You should always use the double stake method when securing the vessel. You do this by driving the first stake in the ground and tying your line to the bottom of it. You then wrap the line twice around the stake to the top and secure to the top. Next drive the second stake in the ground up hill from the first about 4 feet away. Secure the line from the top of the first to the bottom of the second. Doing this double stake method will prevent any stake movement or lessen the chances of the stakes pulling out of the ground.

*Note: Check your lines and the lake level each morning. If the lake level has changed, you will have to re-park the houseboat and retie the lines.*

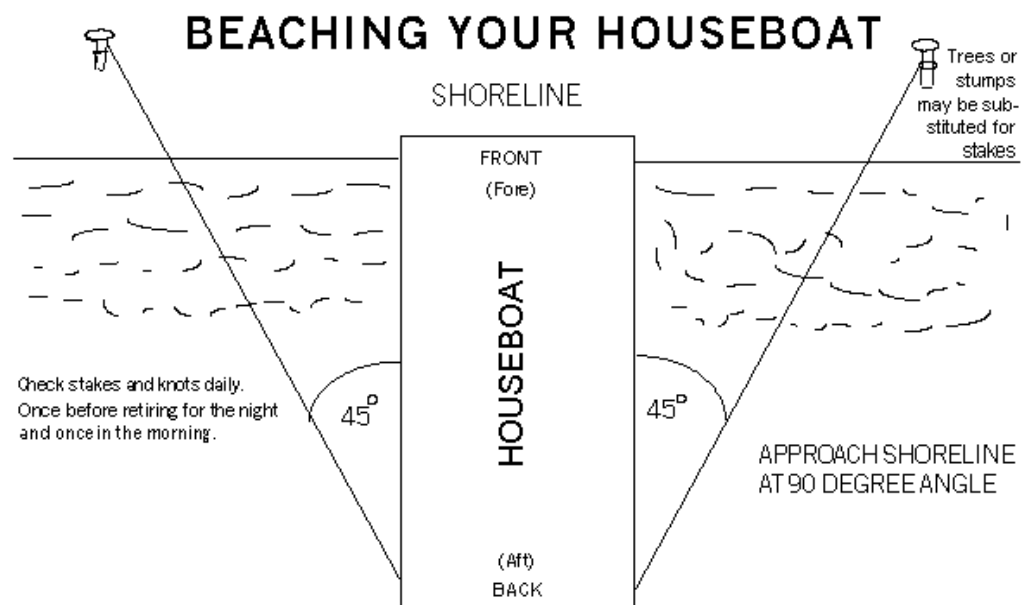
## Bow Thruster

The Titan is equipped with a single bow thruster. It operates from a hydraulic system off of the generator unit. It is used mainly when docking the boat at the marina and at slow boat speeds. **Never operate the Bow Thruster in open water to steer the vessel.** When operating the bow thruster always be aware of the depth of the water at the bow. **There**

**must be at least five feet of water below the bow to prevent rocks, dirt or debris from being ingested into the thruster.**

### Bow Thruster operation

1. Start generator 3-4 minutes before needing to allow generator to warm up.(see "generator" for starting procedures.
2. At the lower helm, lower right side, you will find the controls for the Bow Thruster. Press the the two "ON" buttons at the same time.
3. Rotate the center knob to the port (Left) to push the bow left, **OR**, rotate the center knob to the starboard (right) to push the bow right.
4. Work the thruster is 5 second burst or less.
5. Once vessel is docked, press the "OFF" button on the controller to prevent accidental operation of thruster.
6. The generator may be turned off at this time or left on for normal operation.



### Backing Off the Shore Or Leaving a Marina

1. Post an observer on the back deck.
2. Start the engine and allow it to warm up to 160 degrees.

3. Engage the drive by pulling the throttle lever back to the center position. Throttle forward at about 2,000 rpm to hold the boat in place.
4. Untie the lines and secure them to the bow of the vessel.
5. Remove all stakes from the ground and place in stake holder.
6. Sound your horn three times and throttle into reverse. Do not start your turn until you are in open water.

### If the Houseboat Is Stuck On Shore

- With an observer on the back deck, shift into idle reverse and steer all the way to the left until the boat is at a 30 degree angle with the shoreline and then steer all the way to the right, again to a 30 degree angle. This will loosen the bow from the shoreline. If the boat will not back straight off the shoreline then increase the rpm and try again.
- If the reverse method does not work, attempt the same process using forward to loosen bow of boat. Then use reverse to back straight off the shoreline.

*Note: If you are not able to get the houseboat off the shore, contact the marina. You may incur a charge for this service.*

## Returning to the Marina

When returning to the marina, wait just inside the log boom and we will come out to your boat and dock it for you. If you are checking out, we require that you wash the decks and detail the inside prior to come in. To speed up the checkout process, have your gear packed and placed on the front deck before you get to the marina. Our porter service is on a first come first serve basis.

Your checkout will begin when all of your belongings are off the houseboat and you have completed a general cleaning. A member of our staff will then fuel the houseboat, conduct a walk-through, and call the charges into the marina store. You complete your checkout, and pay for your fuel and any other charges you have incurred in the marina store.

## The Generator

The generator is the power source for the 110-volt system. The spa, air conditioner, mini refrigerator, dishwasher, trash compactor and washer/drier are all ran on this system. The generator must be on to use any of these appliances.

### Starting the Generator

1. Turn on the blower switch located on the lower starboard side of the electrical panel in the hallway between the two lower state rooms. Let run for a minimum of 5 minutes.
2. **Before attempting to start generator. Make sure the “Ships Power Source” is in the “Off” position.**
3. **Press and hold the “On” and “Start” switch, at the same time, in the down position.** These switches are located on the electrical panel located in the hallway between the two lower state rooms. When the red light illuminates, let go of the switches. If the red light goes out the generator has stopped.
4. **Turn off the blower.**
5. **Turn the “Ships Power Source” to the “Ship's Gen” position.**

### If the generator will not start

- Try again in fifteen minutes. The engine may be flooded.
- Press and hold down the “Stop” button for 5 seconds to reset the system then retry.

Note: Do not hold the start switch down for more than 30 seconds or you may burn up the starter.

### Stopping the Generator

**Turn the “Ship's shore power switch” to the off position.**

**Press and hold the “Stop” switch down.** When the red light goes out the generator has stopped.

## Air Conditioners

The controls to the conditioner are located on the port wall of the hallway just forward of the galley. The generator must be on to operate the air conditioner. It takes about five minutes for the unit to warm up to work effectively. To use the air conditioner, set the thermostat to the desired temperature and choose either the “Cool” or “Heat” system setting. Then choose either “Auto” or manual “On” for the fan. It is best to leave on “Auto”.

### **Air Conditioner operation tips.**

1. Keep outside doors closed as much as possible.
2. Pull down window shades on sunny side of vessel.
3. Set temperature setting between 78 & 82 degrees.
4. Don't wait to run unit until cabin is very hot. Unit works best at maintaining a comfortable temperature than trying to cool a very hot cabin.

If the air conditioner will not operate

- **Make sure the generator is on.**
- **Check the switch for the air conditioner** on the electrical panel in the hallway between the lower state rooms.
- Temperature setting may be too low and unit has frozen up. Turn unit off let “thaw” for several hours then restart unit.

## Spa

The spa is cleaned and filled with treated water at the beginning of each voyage. It will require only 1 tablespoon of non-chlorine shock, once a day. The generator must be on to run the spa, and the corresponding switch for the spa labeled "Hot Tub" on the electrical panel in the front state room on the California deck. This switch and the switch for the water jets on the tub should be left on for normal spa operation. This will insure your water stays filtered and warm. At night time or when spa is not in use, the “Circulator pump” switch should be turned off to conserve inverter power.

To start the spa

1. **Turn on the generator.**
2. **Make sure the switch on the electrical panel labeled "Hot Tub" is on.** This switch powers the jet pump.
3. **Make sure the switch on the electrical panel labeled "Circulator Pump".** This switch powers the pump that filters and warms/heats the water.
4. Change the speed of the jets and the amount of aeration (bubbles) with the controls located on the hot tub.

If the hot tub will not heat up

If the spa is allowed to cool down, it takes several hours to heat up. To reheat the spa, put the cover on, turn on the generator, and allow the water to circulate. The propane heater will turn on automatically. The hot tub water heater is located behind a small door on the port side of the California deck.

1. Turn the thermostat knob to a higher heat setting.
2. Check the "circulator pump" breaker at the main electrical panel located in the front state room on the California deck. Turn "ON" if off.
3. Check the "circulator pump" switch located behind a small door on the port side of the California deck. Turn "ON" if off.

## Kitchen Appliances

The generator must be on to operate the **dishwasher, trash compactor, hot tub jet pump and some galley outlets.** When the generator is on, these appliances are operated in the same manner as a household appliance.

If one of the above kitchen appliances will not work

- Make sure the generator is on

- Make sure the corresponding switch on the electrical panel in the hallway between the two state rooms on the lower deck is in the “on” position.

The **refrigerator, oven, microwave and hot tub circulatory pump** run off the inverter system. The generator **does not** have to be on to run these appliances. However, if the inverter switches on the electrical panel or the button on the inverter panels are turned off, these appliances will not work. Also, **if the cabin battery loses its charge, the inverter system will automatically shut off and these appliances will not work until the generator is started and allowed to recharge the cabin battery.**

## Heater

There are two sources of heat on the Titan: the air conditioner and a propane fireplace. The controls for air conditioner are on the port side of the hallway just past the galley on the lower deck. The air conditioner heater requires the use of the generator. The propane fireplace does not, therefore it is cheaper for you to use. (see “Fireplace Operation”)

To use the air conditioner to heat your boat

1. **Turn on the generator.**
2. **Check that the switches for the air conditioner** on the electrical panel in the hallway between the two lower state rooms is on.
3. **Set the air conditioner control to heat.**
4. **Set the thermostat to the desired setting.**

If the air conditioner will not turn on

- **Make sure the generator is on.**

## Fireplace Operation

1. The fireplace is controlled by a thermostat located in the hallway, port wall, on the lower deck. Push the thermostat lever under the control unit to the right.
2. Set the thermostat to the desired setting.
3. Be aware that the fireplace could use a large amount of your propane supply. If you use up your supply, you will need to return to the marina to refill. We can not refill the tank outside the marina.

If the propane fireplace will not turn on

- **Check the switch for the Heater** on the electrical panel in the hallway on the lower deck.
- Check pilot light at base of fireplace. Relight if needed by 1) Turning gas control knob to “pilot”. 2) Push control knob in and hold. Light with piezo igniter button. Continue to hold knob in for about 1 minute after pilot lights. 3) release knob allow to pop back up. 4) Turn control knob counterclockwise to “on”.
- **Check to see if you are out of propane by trying to light the stove**

## Main Breaker

There is a main breaker located on the generator. This breaker controls the AC system on the electrical panel in the hallway on the port side. If this breaker trips, the spa, dishwasher, trash compactor, air conditioner, and battery charger will not work.

To reset the main breaker

1. **Secure the houseboat in a safe location. Turn off the houseboat engine and the generator** to ensure the safety of the person checking the main breaker.
2. **Expose the generator** by lifting the generator hatch on the aft deck and locate the breaker switch.
3. **The breaker** is located on the port side of the generator. Turn the switch off and then back on to reset the breaker.
4. **Reset the main breaker on the generator ONLY after consulting our service department personnel. Service Department # is 530-275-7955.**

## Satellite Radio System

The satellite radio system will give you hours of listening enjoyment. Please consider that due to the fact the satellites we use are elliptical orbiting, you may experience signal loss on some remote areas of the lake.

**To operate the satellite radio receiver**

1. Turn on the breaker labeled “stereo” at the electrical panel in the hallway on the port side.
2. Press the button labeled “source/power” on the cd/tuner unit located on the top deck.
3. Press the button labeled “source/power” to select xm radio.
4. Select a channel by pressing the up/down button.

Chapter

# 3 The DC System

## DC System

The DC system consists of a bank of battery cells and an inverter. The **Refrigerators, oven, microwave, toaster, blender, coffee maker, water pumps, entertainment center components and lighting system** use DC power. The generator **does not** have to be on to run any of these. However, if the inverter switches on the electrical panel or the buttons on the inverter panel are turned off these appliances will not work. Also, if the cabin battery loses its charge, the inverters will automatically shut off and these appliances will not work until the generator is started and allowed to recharge the cabin battery.

If one of the above appliances will not work

- **Check that the corresponding switch on the electrical panel is on.**
- **Check that the inverter switch on the electrical panel is on and the button for the inverter on the inverter panel is activated.** If the inverter button is activated it will display battery voltage and draw. The inverter should be left on at all times.
- **Check the power level of the cabin battery on the inverter panel.** The inverter panels are on the right & left hand side of the Electrical panel in the main cabin. If the voltage on either panel is at or below 11.5 start the generator and allow it to charge the cabin battery. The inverter panel on the left controls the power to the California and Texas decks. The control panel on the right controls the lower or main deck.

# The Propane System

## Propane System

The water heaters, spa, barbecue, stove, and oven, use propane. The Titan holds 40 gallons of propane. This is more than enough for a week's voyage and you should not run out.

## Cabin Water Heater

The two water heaters for the cabin is automated. Turning the switch on at the electrical panel on the main deck is all that must be done. If the reset "red" light is on, turn switch to off then back to on. This will relight the water heater.

If there is no hot water in the cabin

- Switches have been turned off. Turn switches to on.

## Spa Water Heater

The pilot light for the spa heater in automatic.

If there is no hot water in the spa

- Allow the spa six hours to heat up completely with the water "circulating pump" switches on, and the cover in place.
- Inverters need to be turned on in main cabin.
- Switch on control panel on California deck is turned off, turn switch to "on".
- Inverter batteries to low. Start generator to charge battery bank.
- Set the thermostat dial to higher setting. Thermostat is located on heater behind access door on outside of California deck, port side.

## Barbeque

The barbeque will light with an automatic striker or manually with lighter or match. It is operated in the same manner as a residential gas barbeque.

To light the barbeque

1. **Open the lid on top of the barbeque.**
2. Do not lean over the top of the barbeque at any time. Flare up is always a possibility.
3. **Use the igniter switch on the left side knob or insert a lit match or an igniter stick into the hole at the lower right side of the front of the barbeque and turn the temperature control knob to medium.** The barbeque should light immediately.
4. **Select the desired setting and allow the barbeque to heat up for five minutes** before cooking.
5. Be sure to turn off the barbeque after use. Forgetting to turn the barbeque off will run your propane reserves down quickly.

Tips. After every use the barbeque should be cleaned to prevent flare ups during the next use. After food is removed, leave unit on, at a low setting for an additional 10 to 15 minutes. Use wire brush provided and clean grate. Turn unit off.

# The Water System

## Water system

There are two sources of water on the Titan, a 200-gallon fresh water tank and a pick up under the vessel to draw in raw lake water. The fresh water tank is used only for drinking and cooking. The lake water, which is filtered, is used for the toilets, the water slide, deck faucets, dishwasher, and showers. Each sink on the Titan has two faucets. One is labeled "Lake Water" and one is labeled "Fresh Water." Do not drink from the lake water faucet.

If the faucet marked "Fresh Water" is not working

- Check that the switch labeled "Fresh Water" on the electrical panel on the main deck is on.
- With the switches on and no water flowing there may be an electrical or plumbing problem. Contact our Service Department. 530-275-7950
- With the fresh water faucet on you should be able to hear the hum of the fresh water pump. In the unlikelihood of being out of water you will need to return to the marina to refill.

If the faucet marked "Lake Water" is not working

- Check that the corresponding switch on the electrical panel is on.
- There are two lake water pumps installed on the Titan. If one fails you can easily switch to the other. To do this, find the switch marked "Lake Water" below the electrical panel in the hallway on the main deck and flip the switch.

## Water Slide

Be sure and wet the surface of the water slide before use. There is switch located just below the entrance to the slide. Once pressed water will flow for about 30 seconds, then turn off. Each single person trip down the slide will need to press the switch to insure a wet surface. **ONLY ONE PERSON AT A TIME** should attempt to go down the slide. **Always have an observer located at the aft railing to insure area is clear before going down slide.**

If the faucet at the top of the waterslide is not working

- Check that the corresponding switch on the electrical panel, located in the front stateroom on the California deck, is on.

# The Septic System

## Septic System

The Titan is equipped with a 900-gallon black water tank. Each boat is pumped out completely and the tank treated after each voyage. It will not fill up, with normal use, within a week. There should be no need to return to the marina for a pump out.

## Toilet

The Titan is equipped with two different styles of toilets. The lower main floor heads are a RV style toilet and the upper California deck head is a maceration style toilet.

Operation of the lower heads - To flush the head, depress the pedal at its base with your foot. To fill it with water, lift up on the pedal with your foot. Be sure to fill the toilet with water before each use. The sewage system relies on liquid chemicals for treatment. If solid waste becomes higher than the liquid inside your septic tank, the bathrooms will begin to smell. To avoid this, be sure to flush with plenty of water each time you use the head.

Operation of the upper deck head- To fill bowl, press switch on wall labeled “water/fill”. To flush press switch labeled “Flush”. Be sure to fill the toilet with water before each use. The sewage system relies on liquid chemicals for treatment.

**Do not put anything in the toilet accept human waste and the toilet tissue provided by the marina. The system plugs easily and if plugged a service fee will be charged to clear it.**

If the bathrooms smell

- The bathrooms will smell if you have not been flushing with plenty of water and the solids have begun to accumulate. Or it rises above the level of the liquid chemicals a strong odor will develop. To eliminate the odor, flush the effected toilet several times. This will knock down the solids and raise the level of the liquid chemicals.
- If the bathrooms still smell after trying the above procedure a couple of times, you may have to have your tank pumped out and/or retreated. However, if you do not start flushing with plenty of water, the smell will return.

## Safety

Familiarize yourself with the safety equipment on your vessel before you need to use it. Time is very precious during an emergency.

### **Distress Flag**

This is located in the drawer left of the oven. In an emergency display the flag on your houseboat where other boaters can see it.

### **Fire Extinguishers**

There are 6 fire extinguishers on the Titan. There is one located at the lower helm, one in the galley at the island counter, one on the back deck. On the California deck there is one located outside of the forward stateroom and one located on the aft deck outside of bunk room. On the top Texas deck there is one located on the starboard side of the bar. **To use, pull the pin and aim at the base of the flame.**

### **Life Vests**

The life vests are located on the port side, midship, of the California deck next to the washer/drier.

### **Throw Cushion**

The throw cushion is located beside the lower helm. It is an emergency flotation device that can be thrown to a person in an emergency.

### **First Aid Kit**

The first aid kit is located in the drawer left of the oven.

### **CO<sup>2</sup> Detector**

This detector is located on the lower fore part of the starboard cabin wall just behind the entertainment center. If the alarm sounds, account for each person on the boat, open up all the doors and windows to air boat out.

The detector will sound if generator exhaust, engine exhaust or normal cooking smoke build up is entering vessel or being trapped inside vessel.

To correct the problem turn off generator and/or engine. Remove any small vessels that may be blocking generator exhaust on starboard side or tied to the aft of houseboat. Notice if wind is blowing exhaust into cabin. Reposition houseboat if needed.

**If the above procedures do not silence detector call our Service Department at 530-275-7955**

## Trouble Shooting

Below is a quick reference table of the most common problems we see.

<b>Problem</b>	<b>Possible causes</b>	<b>Possible Solutions</b>
Engine will not turn over	Dead battery	Place drive in neutral
	Boat is not in neutral	Contact Marina (530) 275-7955
Engine will not start	No fuel; check gauge	Check gauge; switch tanks
Engine starts then dies	Flooded carburetor	Wait 15 minutes; try again
Boat vibrates while driving	Damaged prop	Park vessel, contact marina (530) 275-7955
Generator will not turn over	Dead battery	contact marina (530) 275-7955
Generator will not start	Fuel tank near ¼ tank full. System need reset	Switch tanks. Press stop switch and retry
Generator starts then dies	Flooded carburetor, Load on generator	Wait 15 minutes; try again. Turn ship's power switch to off- retry
Refrigerator will not get cold	Switch on electrical panel is off	Turn on switch
	One or both Inverter switches off at electrical panel and/or inverter panel	Turn on inverters.
	Battery charge is too low	Turn on generator
Lake water faucets not working	Switch on electrical panel is off	Turn on switch
	Lake water pump dead	Flip lake water pump switch below electrical panel
Fresh water faucets not working	Switch on electrical panel is off	Turn switch on

An appliance is not working	Generator is off	Turn generator on
	Corresponding switch on electrical panel is off	Turn on corresponding switch
	One or both Inverter switches off at electrical panel and/or inverter panel	Check corresponding switches Check cabin battery charge at inverter panel
	Power switch is turned to shore power	Turn power switch to "Ships Power"
	Main breaker has tripped	Reset main breaker at generator
	Battery charge is too low	Turn on generator

## Contacting The Marina

The phone number for the marina is (530) 275-7955. If you have a problem with the boat do not hesitate to call. Be sure to give the marina as much information as possible. Describe the problem in detail. Let the marina know what you have tried to do to remedy the problem. If the marina must send someone out to your boat, **be sure of your location and remain there until help arrives.** It is a common problem that houseboats in need of help are not found at the location they give. In your information packet you will find a detailed map of the lake. Use it to keep track of your location. If a problem arises we will then be able to take care of it quickly.

## Glossary

**Aft** – The area of a compartment on a vessel or an object on a vessel that is closest to the stern in relation to another area or object on the vessel. The aft wall of the cabin is the wall closest to the stern.

**Bow** – The front of a vessel.

**Chase Call** – Contacting the marina to have a service technician sent to your houseboat

**Fore** – The area of a compartment on a vessel or an object on a vessel that is closest to the bow in relation to another area or object on the vessel. The fore wall of the cabin is the wall closest to the bow.

**Flying Bridge** – The helm on the upper deck of a vessel.

**Galley** – The kitchen on a vessel.

**Head** – The toilet on a vessel.

**Helm** – The area from which the boat is piloted.

**Lines** – Known colloquially as rope. Technically rope comes in large quantity on a spool and becomes line once it is cut, prepared, and put to use. A piece of rope is made into a line.

**Port** – The left side of a vessel when facing the bow.

**Starboard** – The right side of a vessel when facing the bow.

**Stern** – The rear of a vessel.

**Tachometer** – A gauge found at the helm that displays the revolutions per minute of the engine.

**Underway** – A vessel traveling through the water.

**Vessel** – A large watercraft.