

## Boat Systems and Safety Equipment

The purpose of this guide is to explain the generic systems and safety equipment found on all Pure Latitude boats. It should be read in conjunction with the individual boat guides.

### 1. Boat Systems

#### Shore power

When connecting insert the boat end before the shore end to avoid a loose live cable. When disconnecting work in reverse i.e. remove the power socket from the shore before the boat. Tie off the power cable on the dock and on the boat, and don't let it trail in the water, ensuring there is sufficient slack in the power cable that it will not come under tension when the boat moves with the wind and current.

When connecting away from the home marina, remove the meter from the cable. Remember to reconnect it when back at the home marina. The location of the boat connection plug-in point is detailed in the relevant boat guide.



#### Battery – 12v dc

Know the location of the battery isolators (engine, service, thruster, parallel, etc.) detailed in the relevant boat guide.

Turn the service isolator on for domestic systems (this will also enable the gas alarm).

The engine isolator is better left off when the engine is not needed.

The parallel isolator **must** always be off, except when you have an engine battery failure.

Use the battery voltmeter to monitor and manage battery when not plugged in to shore power.

#### Water Heater

You can get hot water from running the engine or using the 240V water heater when connected to shore power.

When leaving the boat, the hot water immersion **MUST** be turned off.

### Boat Heater

All boats have diesel heaters which need careful handling - otherwise they refuse to operate! There is a 5-minute delay before the heater appears to be doing much while the heater goes through its start-up procedure. Do not be put off if nothing happens immediately and do not switch on and off to encourage it.

When you no longer need the heater turn it off and allow to cool down for a minimum of 5 minutes before turning the battery off (some heaters are hard wired and others via the battery isolators).

Again do not be put off if there is no obvious response from the heater as it takes a few minutes to shut down.

If the controller is a programmable type please do not leave in programme mode and always ensure it is properly switched off before leaving the boat.

Do not place items in front the heater vents. Adjust vents using louvres where possible to get the heat to the areas you want it.

Be aware of the heater external exhaust point and ensure that nothing (fenders) obstructs it.

### 12V charger / USB

All boats have at least one conventional 12V socket for charging radios, torches, etc. Newer boats additionally have USB sockets.

### Engine Checks

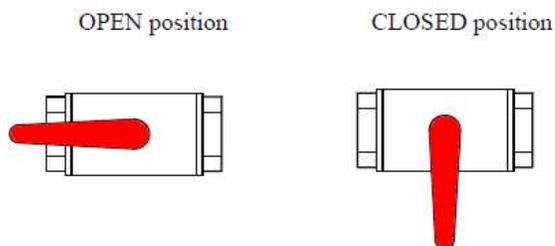
Check: Belt(s) tension, coolant level, oil level and state (no emulsification), water strainer.

Visually inspect that there are no leaks, drips or residue signs from dried leaks.

If anything looks low or not right, please call the office and speak to the duty person before starting the engine. Do not top up levels yourself unless instructed to.

### Sea Cocks

Check the operation of all sea cocks (e.g. heads, galley, etc.) and ensure the ones you are using are open. Note that on some boats, it may be necessary to close seacocks when the boat is heeled.



### Log Transducer

Log transducers regularly foul - you should remove and clean it when you notice that the speed is not reading. This can be done whilst underway but is easier when stationary. When cleaning, ensure that the blank bung is ready to insert as soon as you have removed the log. Sponge up any water and/or debris afterwards.

### **Heads**

Do not put anything in the toilet that you have not eaten first!

Do not pump against closed valves as it inverts seals.

Always pump through at least 15 pumps after use, then pump bowl dry. Just emptying the bowl and leaving it does not clear the system!

Always leave the lever in EMPTY i.e. to the right as you look at it.

Flush with fresh water from shower head before you leave the boat.

### **Holding Tanks**

Different boats have different holding tank systems which are detailed in the boat guide.

Understand the holding tank system, follow the procedures and comply with the local bye laws.

Use the holding tanks seacocks appropriately and do not pump out into rivers or marinas.

### **Bilge Pumps**

Most boats have at least one electric pump and at least one manual pump. Use either to remove water but in the event of a suspected gas leak only use a manual pump.

Most of our electric bilge pumps are not automatic.

### **Water**

Check water levels before you go and top up accordingly.

Water gauges vary – some are on the instrument panel and some are sight glasses on the tanks.

Some boats have 2 water tanks – refer to the boat guide.

Turn off water pump when not in use and always when at sea.

### **VHF Radio**

Marine VHF radios require the user to hold a relevant license.

Adjust the transmit power, squelch and volume to the appropriate levels.

A distress procedure card is kept near the VHF radio.

Check that the handheld is charged before going to sea.

### **Radio**

Typically a car stereo style unit or Fusion system.

Be considerate towards other boaters. Use the fader function to vary the speaker selection between inside the boat and out.

### **Fridge**

The fridge causes a heavy drain on the battery so generally use when attached to shore power or when the engine is running. Always leave the door open when leaving the boat.

### **Dehumidifier**

In the cooler months (approximately October to March) dehumidifiers are kept on board and left on whilst the boat is not in use. Please remove from the boat and store in your car whilst using the boat. Check the dehumidifier is running before you depart the boat.

### **Accessories**

Accessories are available from Hamble on a first come first served basis and need to be booked at least 3 days in advance. Charged in points (see charges section of member hub).

- Tender and Outboard available separately and in various sizes
- Paddleboards
- Spinnakers available in various types. Please ensure that you have enough crew and experience to use the spinnaker safely. We offer training days to improve your skills if needed.

## **2. Safety Equipment**

This section gives some generic information on the use of safety equipment. For a full list of safety equipment on board, please refer to the relevant boat guide. Please ensure you and your crew know where all the emergency equipment is kept and how to operate it. Talk your crew through your plans in the event that something goes wrong. Check that they know how to send a Mayday and how to start the engine.

### **Fire Extinguishers and Blanket**

The location of fire extinguishers is detailed in the boat guide – ensure you and your crew to know where they are and how to use them.

A fire blanket is kept near the stove.

### **First Aid**

There are 2 first aid kits kept on board:

A sealed kit mandated for category 'C' boats to treat a serious injury is stowed either in a green box or in the grab bag.

There is also a basic domestic kit to treating minor injuries. If you use anything, please let Pure Latitude know so that we can replace it.

### **Sea Cocks**

Know the location of all sea cocks and the wooden bungs.

### **Torches in Cabins**

Cabin torches are for emergency use only.

### **Searchlight**

If rechargeable, check charge before departing and recharge if necessary.

### **Man Overboard Throwing Line**

Stowed in a readily accessible place as detailed in the boat guide.

### **Lifebuoys**

Kept towards the stern on a rail. Every boat has one life buoy with light and drogue, plus another with light and floating line (motorboat) or a danbuoy (sailboat).

### **Lifejackets**

Adult lifejackets are provided and should always be worn. Please provide your own for children.

There are a variety of different types, so ensure that you and your crew understand how each one works. It is important that the life jacket fits snugly, but still allows the wearer to move freely, and leg straps should be attached.

If a lifejacket self inflates or the light switches on, please open the jacket, switch off the light, keep separately from the rest (leave on saloon table) and inform Pure Latitude.

#### **Safety Lines, Attachment Points and Jackstays**

Ensure you know where and how to attach and use when conditions or circumstances warrant.

All sailboats are equipped with jackstays which run on deck from the bow to the stern of the boat and pad eyes in the cockpit area.

#### **Life Raft and Grab Bag**

There are various raft types. MCA coding specifies the necessary standard and some rafts require a grab bag containing additional items to bring the raft to the required standard. If supplied, the grab bag should be considered as part of the raft and must be taken with you if you board the raft.

#### **Flare Pack**

Every flare pack contains: 4 parachute, 6 handheld and 2 orange smoke flares.