Boat Guide – Pure Attitude

X Yachts 37

This guide provides the **boat specific** detail on equipment type and location, plus some operating tips that will enhance your enjoyment of the boat. There is a paper copy on board.

It assumes familiarity with Pure Latitude 'Must Know' Procedures which cover how to prepare, operate and leave Pure Latitude boats - see Member Information Hub. The relevant Base Guide complements this guide and gives information on boat location, marina facilities, local area boating considerations and other general local guidance.

This icon identifies areas of particular importance. ℹ

Operating manuals for the various pieces of equipment (radio/plotter/heater/etc) are on board and also readily available online. Model numbers are given in this manual to aid locating the detail online.

Please notify us should you find any inconsistency in the documentation or if you have any suggested improvements.

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1. Boat Data

Pure Attitude – X Yachts 37	
Area of operation	MCA Cat 2 – 60 miles from a safe haven
Maximum persons	10 persons by day, 8 overnight
Minimum persons	Skipper plus two competent crew
Build year	2008
Call sign	2BEK3
MMSI	235065421
Hull ID number	DKXYA37134F808
Sail number	GBR 1575L
Engine	Yanmar 3YM30
Drive system	Saildrive
Propeller type	2 blade folding
Length overall	11.35m
Draft	1.98m
Beam	3.48m
Mast height clearance	18.4m
Water capacity	175 litres
Fuel capacity	80 litres
Main Anchor	Claw anchor, 20m chain and 30m rope
Kedge Anchor	Fortress, 10m chain and 40m rope
Mainsail	Laminate 43.7m^2
Headsail	Dacron 100% 29.9m^2

2. Check On/Off Data

Engine hours are shown in the separate display at chart table. You do not need to start the engine to get the data.

See Tank Gauges section for tank levels

3. Boat Handling Guidance

Fin keel with spade rudder gives high manoeuvrability.
Sail drive propulsion gives minimal prop walk (to starboard in astern).

A more performance style of boat with large mainsail giving much more power (so very good in light winds) and more controls to trim sails.

4. Power and Instrumentation Systems

4.1 Shore Power - 240 Volt Systems

Connect the boat end before the shore end to avoid an open live cable. Disconnect in reverse i.e. disconnect the shore first.

Tie off the power cable at both the dock and the boat, ensuring that it doesn't trail in the water.

Ensure there is sufficient slack in the power cable that it will not come under tension when the boat moves with the wind and current.

Boat socket is located in the starboard aft locker. Main breaker is next to socket in aft port cockpit locker.

Take extra care to use cutout and not to trap shore power lead under locker lid.

One 240v socket, neon indicator and switches/ breakers are under the chart table - separate switches for:

water heater

battery charger

4.2 Batteries – 12 Volt Systems

Unusual isolator arrangement – read carefully.

Service battery and windlass - located on panel at foot level in front face of saloon port berth. It is labelled “main fuse el-panel”.

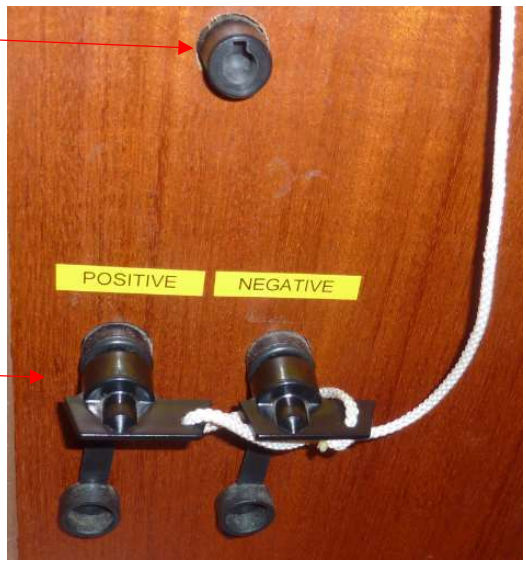
Service batteries isolator.

Windlass circuit breakers pos and neg.

Battery parallel switch

Red switch key kept in chart table top drawer

Engine battery isolator switches.
Both positive and negative must be on.



The service isolator will also enable the gas alarm, which will test sound for 10s.

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.

4.3 Switch Panel

Switches are labelled and self-explanatory.

12V socket switch
Use the 12V socket for charging radios, torches, etc.
Bilge (keel sump) switch
On or off, not automatic

Use rocker switch to select engine or domestic battery levels.

USB sockets not available

4.4 Tank Gauges

Fuel / Water gauges

Water

Fuel

4.5 Navigation Instruments

VHF fixed radio – Raymarine RAY240E

VHF speaker E45003- Under chart plotter and at helm, on / off / volume operated independently

VHF cockpit repeater – the handset can be moved from the chart table area and plugged in next to the autopilot controls. Take care to align plug and do not force.

Handheld VHF – Icom M71 - see Safety Equipment section for stowage location.

- Marine VHF radios require the user to hold a relevant license. A distress procedure card is kept near the VHF radio.
- Check that the handheld is charged before going to sea.

Chart plotter - Raymarine C70 plotter on chart table panel

Wind / depth instruments – Raymarine i70 over main hatch.

The depth is set to read beneath the keel in metres.

Autohelm – Raymarine 6002 control panel located port side cockpit, aft of wheel.

Hand bearing compass - see Safety Equipment section for stowage location.

Paper navigation equipment and manuals - see Documentation section for location.

4.6 Log Transducer

Under forecabin berth

Log transducers regularly foul – please remove and clean when you notice that the speed is not reading. Although easier when stationary, this can be done whilst underway (when you notice it). When cleaning, ensure that the blank bung is ready to insert as soon as you have removed the transducer. Please sponge up any water and/or debris afterwards.

4.7 Anchor Windlass Controller

Circuit Breaker – see Batteries section.

Stowed in chart table shelf; plugs in to socket in anchor locker

Ensure you read the anchoring section in 'Useful Tips' of the must know procedures.

5. Domestic Systems

5.1 Gas

Gas bottle	Gas locker in aft port locker
Spare gas bottle	Gas locker in aft port locker
Galley gas valve	Locker under stove

If a cylinder runs out please see the gas section of in the "must know" procedures.

5.2 Water

Water fill	Starboard toe rail midships
Overflow	At galley sink

5.3 Fuel

Fuel fill	Port aft quarter toe rail. It is next to the waste – be careful not to mix them.
Fuel shut off valve	Under aft cabin bunk.

5.4 Heads

Manual pump Jabsco heads

Switch to the right to drain bowl, switch to the left to flush. At least 15 pumps of flush are required to clear the bowl and pipework. Always leave the switch to the right, pump handle down and locked and the bowl dry.

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

Do not pump against closed seacocks as it inverts seals.

See section on Skin Fittings for location of valves.

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

5.5 Holding Tank

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

Closing the tank outlet seacock will store waste in the holding tank. Do not allow to overfill.

Opening the seacock will empty the tank and needs to be followed by at least 15 pumps of flush.

See section on Skin Fittings for location of valves.

ℹ Always empty the holding tank before leaving the boat and leave the seacock open.

5.6 Boat Heater

ℹ The diesel heater needs careful operation to avoid it locking you out.

There is a 3-minute delay before the heater appears to respond while the heater goes through its start-up and cool down 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).

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

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

The heater control is left of main switch panel.

The heater has control for heat or ventilation. Top left button and red light to turn heater on, select temperature with thermostat. Bottom left button and blue light for ventilation. Middle button turns off heat or ventilation.

5.7 Water Heater

Water is heated by running the engine or using the 240V water heater when connected to shore power.

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

5.8 Domestic Radio

JVC KD-DV7301, Below plotter 4 speaker

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

5.9 Fridge

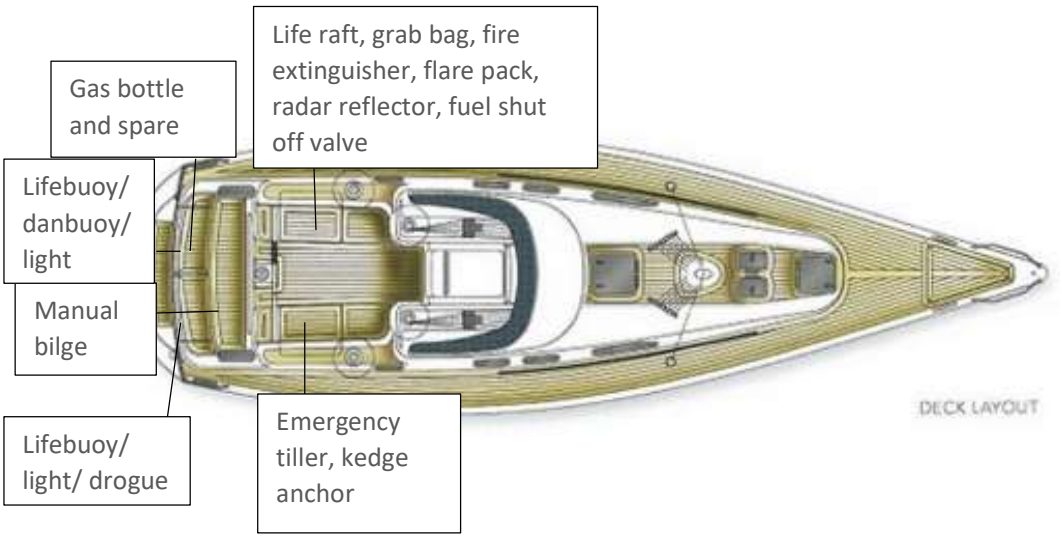
Isotherm with accumulator. Fridge thermostat control is located inside cupboard under sink.

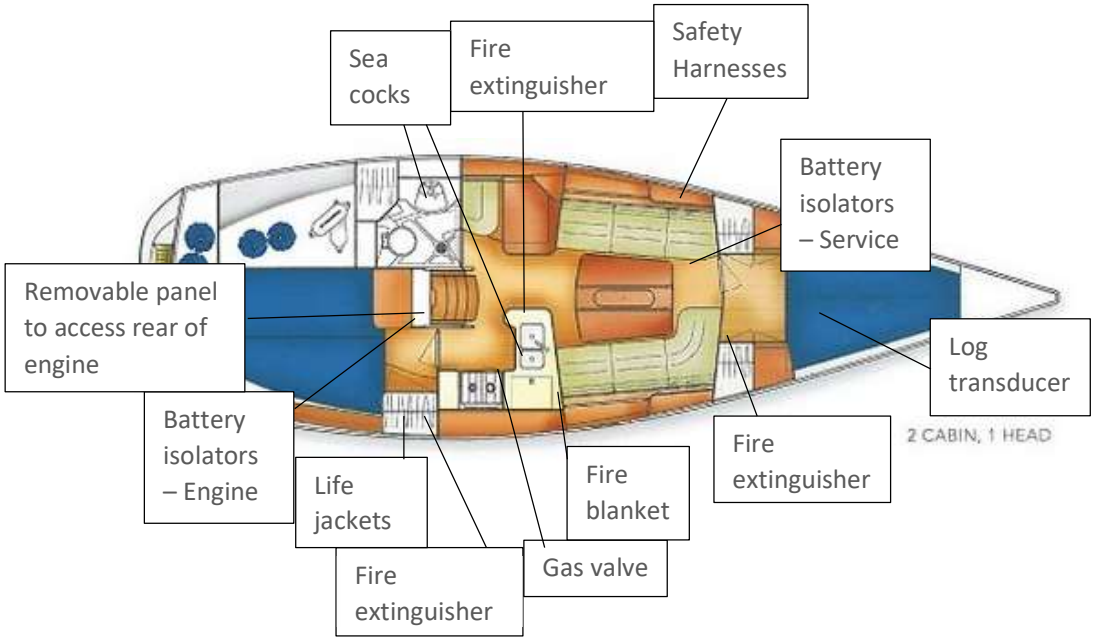
6. Safety Equipment

Please ensure you and your crew know where all the emergency equipment is kept and how to operate it and check that they know how to send a Mayday and how to start the engine.

Talk your crew through your plans in the event that something goes wrong.

6.1 Safety Equipment - quick reference diagram





6.2 Safety Equipment Location

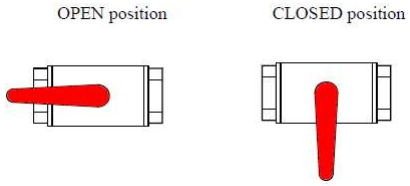
Item	Location
2kg fire extinguisher	Aft cabin locker
1kg fire extinguisher	Forward cabin on bulkhead
2kg fire extinguisher	Galley side cupboard
2kg fire extinguisher	Starboard aft cockpit locker
Fire Blanket	Saloon side of sink
Smoke Alarm	Aft cabin
CO Alarm	Starboard saloon
Handheld VHF	In chart table shelf
Emergency VHF antenna	Behind plotter
Manual bilge pump	Aft cockpit, handle in starboard side aft locker
Life jackets x 12	Aft cabin locker x7, forward cabin locker starboard x5
Safety lines x 10	Forward cabin locker starboard
Throw line/ rescue sling	Saloon/stern guard rail
Lifebuoy/light/drogue	Pushpit
Lifebuoy/danbuoy/light	Pushpit
10 person life raft	Port cockpit locker
Raft grab bag	Port cockpit locker
First aid domestic pack	Locker under chart table and to treat minor injuries.
First aid CAT C pack	In the grab bag to treat a serious injury. If you use anything, please advise.
Flare pack	Port cockpit locker
SOLAS No 2 Cards x2	Inside heads door
Torches	1 in each cabin for emergency use only
Search lamp	Chart table shelf
Binoculars	Chart table shelf
Fog horn and spare canister	Chart table side drawer
Toolbox	Under chart table seat
Hacksaw and blades	Under chart table seat
Galley Strap	In galley
Emergency Tiller	Starboard cockpit locker
Radar reflector	Port cockpit locker
Kedge anchor chain and warp	Starboard cockpit locker
Storm Jib	Under forepeak
Emergency water – 20 litre container	Starboard saloon seating

6.3 Skin Fittings and Seacocks

Know the location of all sea cocks, how they operate and where the wooden bungs are.

Item	Location
Galley sink	Under galley cupboard, deep underneath removable cover
Heads sink out, shower out, WC in	Heads cupboard
Holding tank out	Heads cupboard
Sea water inlet to engine	Aft cabin behind removable cover
Log transducer	Under forecabin berth
Wooden bung selection	Chart table side drawer

Check the operation of all sea cocks (e.g. heads, galley, etc.) and ensure the ones you need are in the correct position.
It is good practice to close unused seacocks offshore and it may be necessary to close when the boat is heeled.



7. General Equipment

Equipment	Location
Mooring lines 3 x short, 2 x long	Starboard cockpit locker when not in use
7 Fenders x cylinder	Aft cockpit locker when not in use
Sail Ties	Attached to handrail on companionway steps
Washboard	Stow under aft cabin berth cushions
Ensign	Saloon/tied to stern guard rail
Winch handles x 3	Chart table side drawer
Signal cone and ball	Aft cabin locker
Boathook	Port cockpit locker
Boat brush	Port cockpit locker
Hose pipe reel and adaptors	Port cockpit locker
Cleaning kit	Galley cupboard
Heads cleaning kit	Heads cupboard
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.

Galley Equipment	Location
Knives, forks, spoons, teaspoons x8	Galley drawers
Mugs, glasses x8	Galley stowage
Saucepan, frying pan, colander	Under stove
Oven tray	In oven
Kettle	On stove
Kitchen knives x2	Galley drawers
Chopping board	Galley drawers
Cooking spoons	Galley drawers
Peeler	Galley drawers
Corkscrew	Galley drawers
Scissors	Galley drawers
Tin opener	Galley drawers
Gas lighter	Galley drawers

8. Documentation

Document	Location
Reeds channel almanac	Chart table
Imray chart pack 2200 Solent	Chart table
Chart equipment	Chart table
Log book	Chart table
Boat guide, location guide	Chart table
Ships papers folder	Chart table
Instrument operating guides	Port saloon forward locker

9. Engine

9.1 Checks

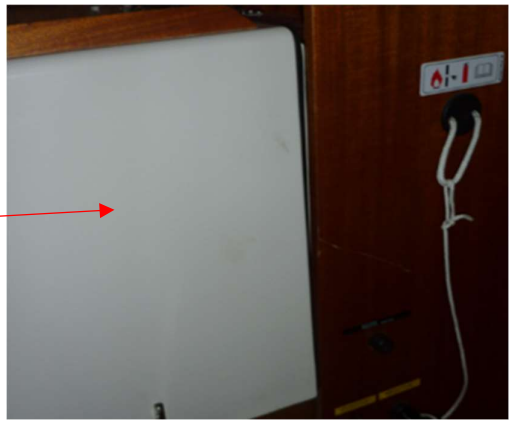
The front of the engine is accessed via the removable heavy companionway steps. There are 4 catches and the key is kept in the top drawer at the side of the chart table

Strainer

Oil level dipstick

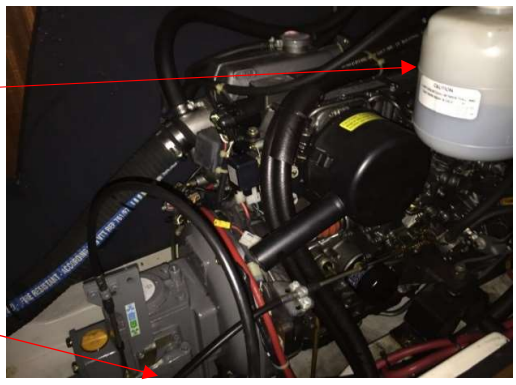
Belt (2)

The back of the engine is accessed from the aft cabin behind a large removable GRP engine cover.



Fresh water header tank

Raw water inlet



Check belt(s) tension, coolant level, oil level and state (no emulsification), water strainer (avoid removing lid unless blocked).

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

Do not top up levels without reference to PL.

The fire extinguisher access hole is above the engine battery isolator, behind the aft cabin door.

If anything looks low or not right, please call the office and speak to the duty person before starting the engine.

9.2 Start/Stop Procedure

Engine control panel is located starboard side cockpit, aft of the wheel.
Engine start requires the ignition key. Move to 'glow', then to 'on', then to 'start' and then back to 'on' - you will hear a beep sound and the engine will start.
Electronic engine stop – press 'stop' button which will stop the engine, then turn the key to 'off'. DO NOT turn the key to 'off' without pressing stop first – it will potentially damage the battery. The key needs to be in the 'on' position for the stop to work.
If you can't turn the engine off at the key, then shut the fuel valve on the engine, located on the front starboard side.

10. Sails

10.1 Main

Lazy jacks are deployable at the mast but if you leave set while sailing then you must ensure they are adjusted to avoid overloading them with the mainsheet.

No topping lift so always use main halyard on boom when sail stowed. Take care to keep boom lifted above the sprayhood to stop it rubbing.

10.2 Headsail

Car is adjusted from the cockpit. Take care not to rub jib sheet on side stay. Reaching block and line located in starboard cockpit locker.

10.3 Spin type and attachment

Multiple options available

10.4 Backstay

Hydraulic system. depowers the main - use it but remember to release when going downwind.