Boat Guide – Pure Therapy

Hanse 345

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 Therapy – Hanse 345	
Area of operation	MCA Cat 2 – 60 miles from a safe haven
Maximum persons	8 persons by day, 6 overnight
Minimum persons	Skipper plus one
Build year	2016
Call sign	MAPC6
MMSI	232006391
Hull ID number	DE-HANF0248L617
Sail number	GBR 4565L
Engine	Volvo D1-20
Drive system	Saildrive
Propeller type	2 blade fixed
Length overall	10.45m
Draft	1.9m
Beam	3.5m
Mast height clearance	15.75m
Water capacity	210 litres – under bunk forepeak
Fuel capacity	156 litres – tank aft starboard
Main Anchor	10kg Delta with 30m chain and 30m rope
Kedge Anchor	6kg Danforth with 10m chain and 30m rope
Mainsail	Dacron 32.5m^2
Headsail	Dacron 105% Genoa 26m^2

2. Check On/Off Data

Engine hours are shown in the rev counter lcd display once you power up.

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).

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 aft port locker.

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

Extension lead is stowed in port cockpit locker.

Main breaker is located in the port cockpit locker, tucked up high under lid.

Indicator light and water heater switch under chart table. No switches for sockets or battery charger.

4.2 Batteries – 12 Volt Systems

Engine battery isolator switch

Starboard aft cabin behind engine bulkhead.

Service batteries isolator switch

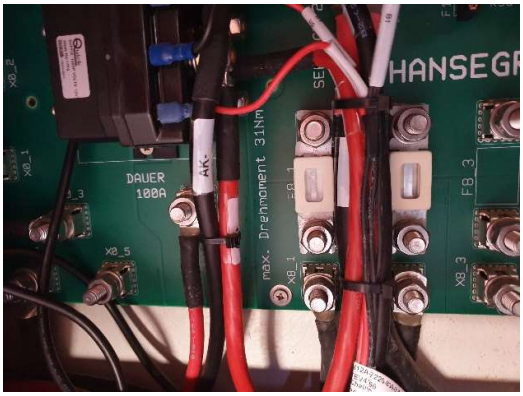
Saloon, front face of starboard seat.

Battery parallel switch

Engine bulkhead by battery.

Windlass circuit breaker

The anchor windlass has a 100 AMP non resettable fuse located behind the removable panel under chart table.



The service isolator will also enable the gas alarm.

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

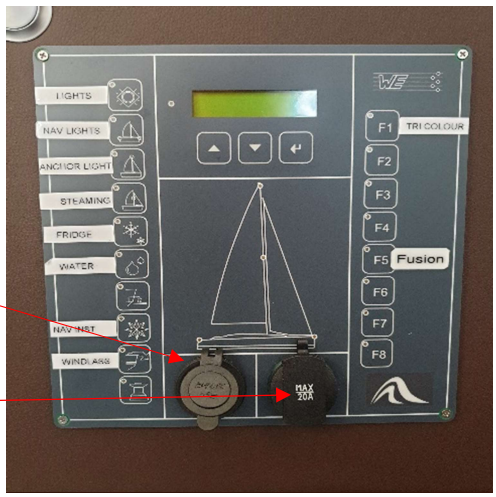
The parallel isolator must always be off, except when you have an engine battery failure.

4.3 Switch Panel

Switches are labelled with icons and self-explanatory.

USB socket

12V socket
Use the 12V socket for charging radios, torches, etc.



Bilge Pump
Bilge pump permanently powered on auto, press and hold to activate manually if required.

4.4 Tank Gauges

Batteries / Fuel / Water gauge

Instrument panel control menu.

Scroll using up and down arrows shows battery service; battery engine; diesel; water levels.

Push and hold enter button acknowledges alarm and allows further scrolling.

4.5 Navigation Instruments

VHF fixed radio – B and G V60

VHF cockpit repeater

Clips in and charges underneath back of instrument panel

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 - B and G Zeus 3 9” cockpit table.

Wind / depth / speed instruments - B and G Triton 2 port and starboard helms.

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

Autohelm - B and G Triton 2 operated at starboard helm.

Hand bearing compass - see safety equipment section for stowage location.

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

4.6 Log Transducer

Unit and bung located under forward cabin floor

ℹ

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.

Remote handset stowed in port saloon locker; plugs in to socket in anchor locker.

ℹ

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

5. Domestic Systems

5.1 Gas

Gas bottle	Starboard quarter cockpit locker
Spare gas bottle	Port cockpit locker/anchor locker
Galley gas valve	Locker under stove

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

5.2 Water

Water fill	Port forward deck; use key stored in chart table

5.3 Fuel

Fuel fill	Cockpit floor, between wheels
Fuel shut off valve Under berth in starboard aft cabin.	

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.

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.

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

5.6 Boat Heater

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.

Select the temperature or mode and press the control knob to confirm selections.

Pressing the power button will turn the heating off, the button light will turn white.

Do not adjust timer settings.

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 Lighting

Saloon lighting is operated by the panel on the galley end. Lighting circuits need to be switched on at the main instrument panel first.

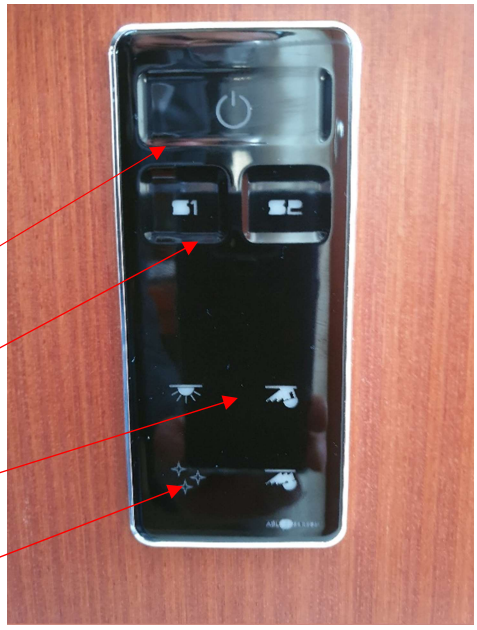
The ceiling light to starboard of companionway is wired directly to the battery (useful when arriving in the dark).

Please ensure it is off when you leave.
Panel on/off

S1, preset saloon lights on.
S2, preset galley lights on.

Saloon, galley, ceiling light on/off
Push and hold to dim.

Not in use

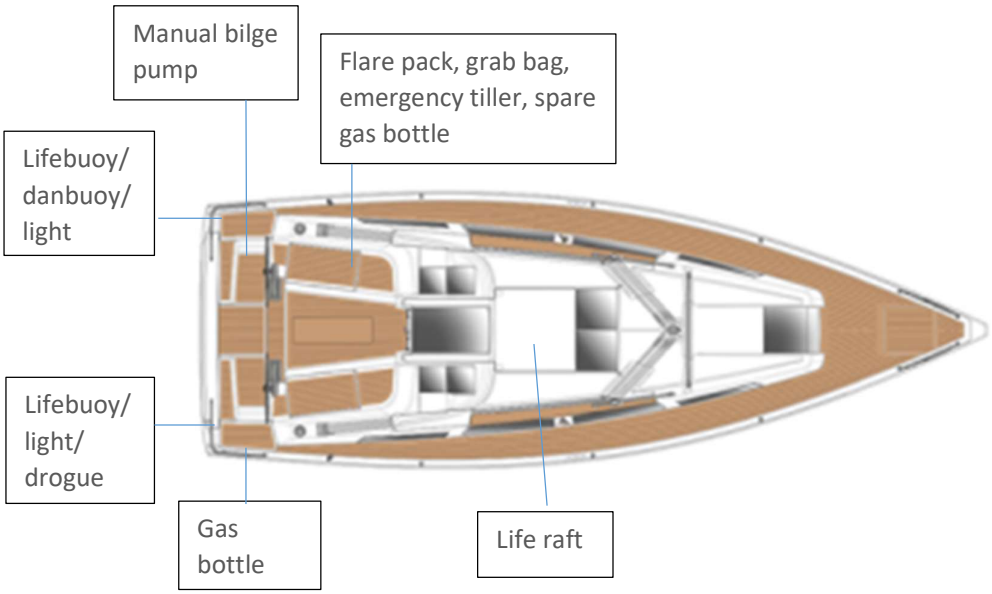


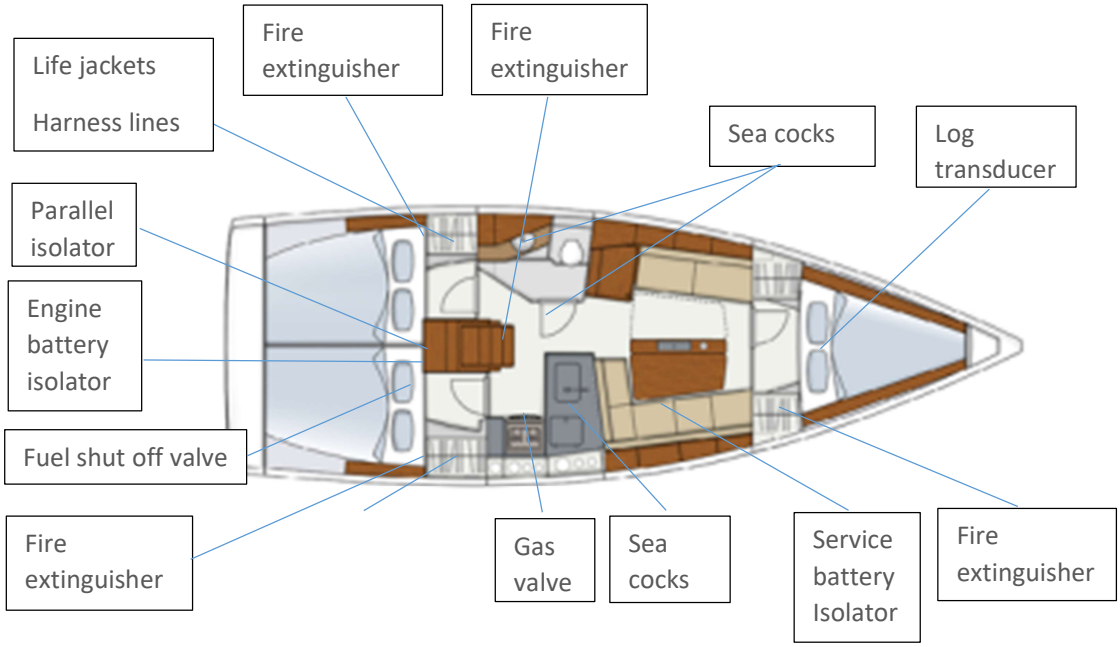
6. Safety Equipment

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

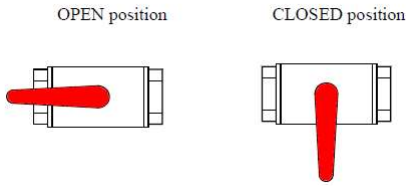
Item	Location
2kg fire extinguisher	Starboard aft cabin
1kg fire extinguisher	Forward cabin
2kg fire extinguisher	Under companionway steps
2kg fire extinguisher	Port aft cabin
Fire Blanket	Cupboard below sink
Smoke Alarm	Aft cabins
CO Alarm	Starboard saloon
Handheld VHF	Cupboard above chart table
Emergency VHF antenna	Cupboard above chart table
Manual bilge pump	Cockpit
Life jackets x 10	Port aft cabin locker x5, Forward cabin locker x5
Safety lines x 8	Port aft cabin locker
Throw line/ rescue sling	Saloon/stern guard rail
Lifebuoy/light/drogue	Starboard pushpit
Lifebuoy/danbuoy/light	Port pushpit
8 person life raft	On coach roof
Raft grab bag	Cockpit port locker
First aid domestic pack	Port side saloon cupboard 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	Ships papers folder
Torches	1 in each cabin for emergency use only
Search lamp	Cupboard above chart table
Binoculars	Cupboard above chart table
Fog horn and spare canister	Cupboard above chart table
Toolbox	Below port saloon seating inc engine spares
Wire cutters	Port saloon cupboard
Galley Strap	In galley
Emergency Tiller	Port cockpit locker. Fit through cockpit floor access fitting
Radar reflector	Under port saloon seating
Kedge anchor chain and warp	Starboard cockpit locker
Storm Jib	Forepeak under bunk
Emergency water – 20 litre container	20 litre; under port 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
Heads sink out, shower out	Heads cupboard
WC in	Under floor hatch outside heads
Holding tank out	Heads cupboard
Sea water inlet to engine	Engine compartment, located rear port side accessed via aft cabin removable panel
Log transducer	Forward cain floor
Wooden bung selection	Saloon port locker

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	Cockpit locker when not in use
Fenders 6 x cylinder, 1 x large ball	Attach to stern guard rail when not in use
Sail Ties	Port saloon locker
Washboard	Stow on top of sliding companionway hatch with tie down rope towards the aft
Ensign	Stowed in saloon/tied to stern guard rail
Winch handles x 2	Port saloon
Signal cone and ball	Port aft cabin locker
Boathook	Port saloon above lockers
Boat brush	Interchangeable head with boat hook handle
Hose pipe reel and adaptors	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 x6	Galley drawer
Mugs, glasses x6	Galley cupboard
Saucepan, frying pan, colander	Under stove
Oven tray	In oven
Kettle	On stove
Kitchen knives x3	Galley drawer
Chopping board	Under oven
Cooking spoons	Galley drawer
Peeler	Galley drawer
Corkscrew	Galley drawer
Scissors	Galley drawer
Tin opener	Galley drawer
Gas lighter	Galley drawer

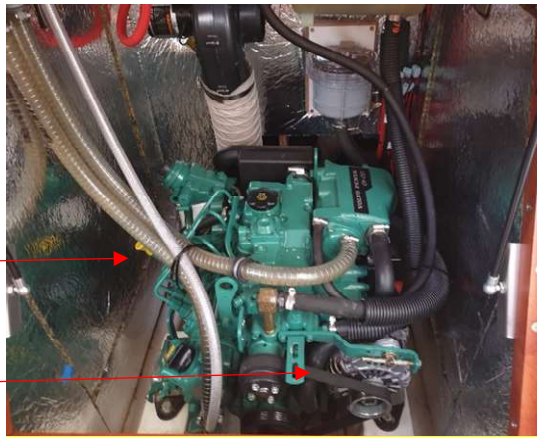
8. Documentation

Document	Location
Reeds channel almanac	Chart table
Imray 2200 Solent chart folio	Chart table
Chart equipment	Chart table
Log book	Chart table
Boat guide, location guide	Chart table
Ships papers folder	Chart table
Instrument operating guides	Forward cabin

9. Engine

9.1 Checks

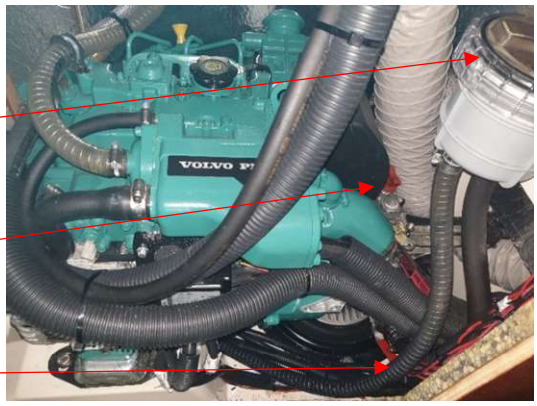
The engine is accessed by lifting the companionway step or through the access panel in the aft cabins.



Oil level dipstick

Belt Tension
Behind casing – check tension by feel

The sea water inlet, strainer and sail drive are accessed via the aft cabins.



Water strainer

Sail drive oil level dipstick

Sea water inlet seacock

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.

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

The engine start is keyless.
Press the power button on the controller to power the tacho (top left).
The display will beep followed by displaying the engine hours.
A short press of the start button (top right) will preheat the engine if needed.
Press and hold the start button again to start.
To stop the engine push and hold the stop button (bottom right) and then power button to turn the display off.
Display illumination / contrast and alarm silence is controlled on the bottom left button.
Engine warning alarms are displayed in the LCD screen.

If the engine will not stop it is most likely that the control has been switched off so check that first. If the control system fails then stop by shutting the fuel valve on the engine, located on the starboard side.

10. Sails

10.1 Main

Reef 1 and 2 are single line reefing. 3rd reef requires clipping on to gooseneck hook.

Stackpack – take care when hoisting and lowering main to avoid main getting caught in lazyjacks.

Topping lift – adjust topping lift to avoid putting too much tension on the lazyjacks when hoisting and lowering main, and release whilst sailing to avoid distorting the main.

10.2 Headsail

Conventional furling sail, cars with adjustable stoppers on track.

10.3 Spin type and attachment

Asymmetrical spinnaker with fixed tack line, sheet blocks attached to aft deck cleats with webbing strops.

10.4 Backstay

Adjustable backstay – Depowers the main - use it but remember to release when going downwind.