

Manual for owners and skippers



Sailing yacht „BAVARIA 42 CRUISER”



BAVARIA YACHTS

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Introduction

This manual will help you to handle your yacht safely and with pleasure. Apart from information about the yacht itself and installed or additionally supplied fittings the manual also contains information on operation and maintenance. Please familiarise yourself with everything before you go on your first voyage.

If this is your first yacht or if you are not really familiar with the special characteristics of a motor yacht please make sure you get proper training before you put it into operation. Do not hesitate to contact the dealer or our shipyard for information about further training possibilities.

As the scope of supply depends on the order, the equipment of your yacht can deviate with some descriptions and illustrations. In order to be able to adapt our yachts to the constantly progressing technical standard, we must reserve ourselves changes in form, equipment and technology. For these reasons no requirements can be derived from all data, illustrations and descriptions in this manual.

**PLEASE KEEP THIS MANUAL IN A SAFE PLACE
AND HAND IT OVER TO THE NEW OWNER IF YOU SELL THE YACHT.**

BAVARIA would like to welcome you to the circle of **BAVARIA** owners and would like to thank you for placing your confidence in our products by acquiring this yacht.

Your contract partner and the management and staff of Bavaria Yachtbau GmbH hope you will enjoy your new yacht.

Bon voyage, fair winds and fine weather.

BAVARIA Yachtbau GmbH
Management



K. Hammen

Category of design

Following the European Recreational Craft Directive each boat has to be classified according to a category of design.

All sailing yachts of BAVARIA belong to the category of design A,

Ocean: designed for extended voyages where conditions may exceed wind force 8 (Beaufort scale) and significant wave heights of 4m and above, and vessels largely self-sufficient.

Certification

For yachts with a length of more than 12m hull length the EC-Directive intends the certification module **B** (EC type-examination).

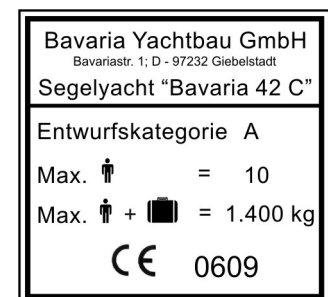
IMCI (International Marine Certification Institute) from Bruxelles was put into charge as a notified body (see: Declaration of Conformity).

Identification

The hull identification was formed into the transom on starboard side. This is a unique sequence of digits and letters.

Builder's plate

The builder's plate on the front wall of the cockpit is a demand of the Directive because certain information are required which will be explained in the following.



Explanations

- Category of design A : Ocean

- Max. = 10

: Maximum number of persons recommended by the manufacturer if the yacht is situated in the sea area corresponding to the category of design. The number of crew can be increased under consideration of the maximum additional loading capacity if the yacht is on a voyage in non-ocean areas.

-Max + = 1400 kg

: Maximum additional loading including 10 persons, stores, provisions and personal equipment (excluding tank capacities).

- CE 0609

: CE marking which indicates the conformity of the yacht with all provisions of the Directive. The sequence of digits is the code number of the certifying body, in this case the **IMCI (International Marine Certification Institute), Brussels** (see: Declaration of Conformity).

Warnings

Many chapters of this manual will support a trouble free operation, maintenance or draw your attention to signs of dangers. To find them more easily they are especially marked (in boxes or in bold). We advise you to study them carefully although the experienced skipper might be quite familiar with many of them.

The following chapters contain such warnings/notes or other important information for operating the yacht.



Always consider the maritime duty to exercise diligence!



Danger

Means, that an extreme real hazard which will lead to the death or too irreparable injuries with great probability exists if no adequate precautions are found.



Warning

Means, that a hazard which can lead to injuries or death exists if no adequate precautions are found.



Caution

Means that a memory of safety measures or the attention judges on handling, which can be unsure or lead to personal injuries or to harm of the vessel or from components.

Security advice



Attention!

From wind force 6 the hatch in the cab entrance is to be closed.



Attention!

Starting from wind force 6 the cab windows in the cockpit are to be closed.

**INTERNATIONAL MARINE CERTIFICATION INSTITUTE**

International Non-Profit Association

Rue Abbé Cuyppers 3 / B-1040 Bruxelles / Belgique / +32 2 741 6836 / +32 2 741 2418
www.imci.org / info@imci.org**EC-TYPE EXAMINATION CERTIFICATE***We hereby certify that the product below manufactured by****Bavaria Yachtbau GmbH****Bavariastr. 1 - D-97252 GIEBELSTADT - GERMANY****Recreational Craft******BAVARIA 42 CRUISER***

Scope	Design & Construction
Module type	B
Boat type	Sail
Boat design category	A
Length of hull [m]	12,83
Beam of hull [m]	3,99
Loaded displacement mass [kg]	11300
Maximum rated engine power [kW]	45
Number of persons recommended	10
Maximum recommended load [kg]	1400
Certificate number	BBAV025

*meets the requirements of the Recreational Craft
Directive 94/25/EC as amended by 2003/44/EC*Ulrich Heinemann (Managing Director)
for EU - Notified Body : 0609**2008-06-18**This certificate is valid for craft identified as a
2009 model

References to the relevant standard(s) used are given on the Declaration of Conformity

NBN EN 45011 accredited organisation - Certificate No 228-PROD

VOLVO PENTA

Declaration of Conformity for Recreational Craft Propulsion Engines with the exhaust emission requirements of Directive 94/25/EC as amended by 2003/44/EC

D2

Engine manufacturer:

AB Volvo Penta
Gropegårdsgatan
405 08 Göteborg
Sweden

Body for exhaust emission assessment:

NKIP
Nipkowweg 9
Postbus 65
8500AB Joure
Netherlands
ID Number: 0613

Module used for exhaust emission assessment B, EC Type Examination acc to Annex VII
Other Community Directives applied EMC 89/336/EEC

Description of engine(s) and essential requirements

Engine Type 4 stroke diesel engine

Engine model(s) covered by this declaration

D2-55 CE-RCD-542
D2-75 CE-RCD-543

EC Type certificate number

Essential requirements	Standards Used	Other normative document used
Annex I.B – Exhaust Emissions		
Engine identification	Volvo Penta std	Annex 1.B.1
Exhaust emission requirements	EN ISO 8178-1:1996	Annex 1.B.2
Durability	Volvo Penta std	Annex 1.B.3
Operator's manual	ISO 10240:2004	Annex 1.B.4
EMC Directive	EN 61000-3-2, EN 61000-3-3, CISPR 25	

This declaration of conformity is issued under the sole responsibility of the manufacturer. I declare on behalf of the engine manufacturer that the engine(s) will meet the requirements of above mentioned directives when installed in a recreational craft, in accordance with the engine manufacturer's supplied instructions and that this (these) engine(s) must not be put into service until the recreational craft into which it is (they are) to be installed has been declared in conformity with the relevant provisions of the above mentioned Directives.

Name and function: Sam Behrmann, Product Liability
(identification of the person empowered to sign on behalf of the engine manufacturer or his authorised representative)

Signature and title:
(or an equivalent marking)



Date and place of issue: (yr/month/day) 2005/12/16 Göteborg

PL-81/05

1. Description of the yacht**1.1 Main particulars****1.1.1 Principal dimensions**

Length overall	$L_{OA}=13.06$ m	Length of hull	$L_H=12.83$ m
Length on waterline	$L_W=11.45$ m	Breadth max.	$B_{max}=3.99$ m
Draught - normal keel	D_{max} abt 1.96 m	Draught - lead keel	D_{max} abt 2.15 m
Headroom **	H_D abt 18.15 m		
Headroom (for transport)	H_T abt 3.95 m		

1.1.2 Displacement and weights

Weight of the empty yacht -incl. safety equipment		9200 kg
Weight of the fully equipped yacht	normal keel	11300 kg
Weight of the fully equipped yacht	lead keel	12300 kg
Ballast	normal keel	2950 kg
Ballast	lead keel	3000 kg

1.1.3 Motorization

Diesel engine:	
Manufacturer Volvo;	Type D 2-55, Output 41 kW or D2-40, Output 29.1 kW
Cooling	indirect (sea-/fresh-water)
Reverse-reduction gear	Sail drive 130 S reduction ratio 2.19:1
Propeller propeller)	3-bladed fixed propeller made from an aluminium alloy (option: folded

1.1.4 Electrical installation**230 V/110 V (option) AC-installation**

Shore connection (option)	safety contact plug box (meeting the CEE-norm) 230 V/110 V
Battery charger	115 V/ 230 V AC / 12 V DC with 27 A or 48 A max. current (option)

12 V DC-system

1 x starter battery 12 V 55 Ah	1 x service battery (option 2 x) 12 V 140 Ah
Motor generator (lighting generator)	battery charger
The distribution occurs about switchboard, electric circuits with electronic protective switches and LED.	

1.1.5 Tank capacities (option)

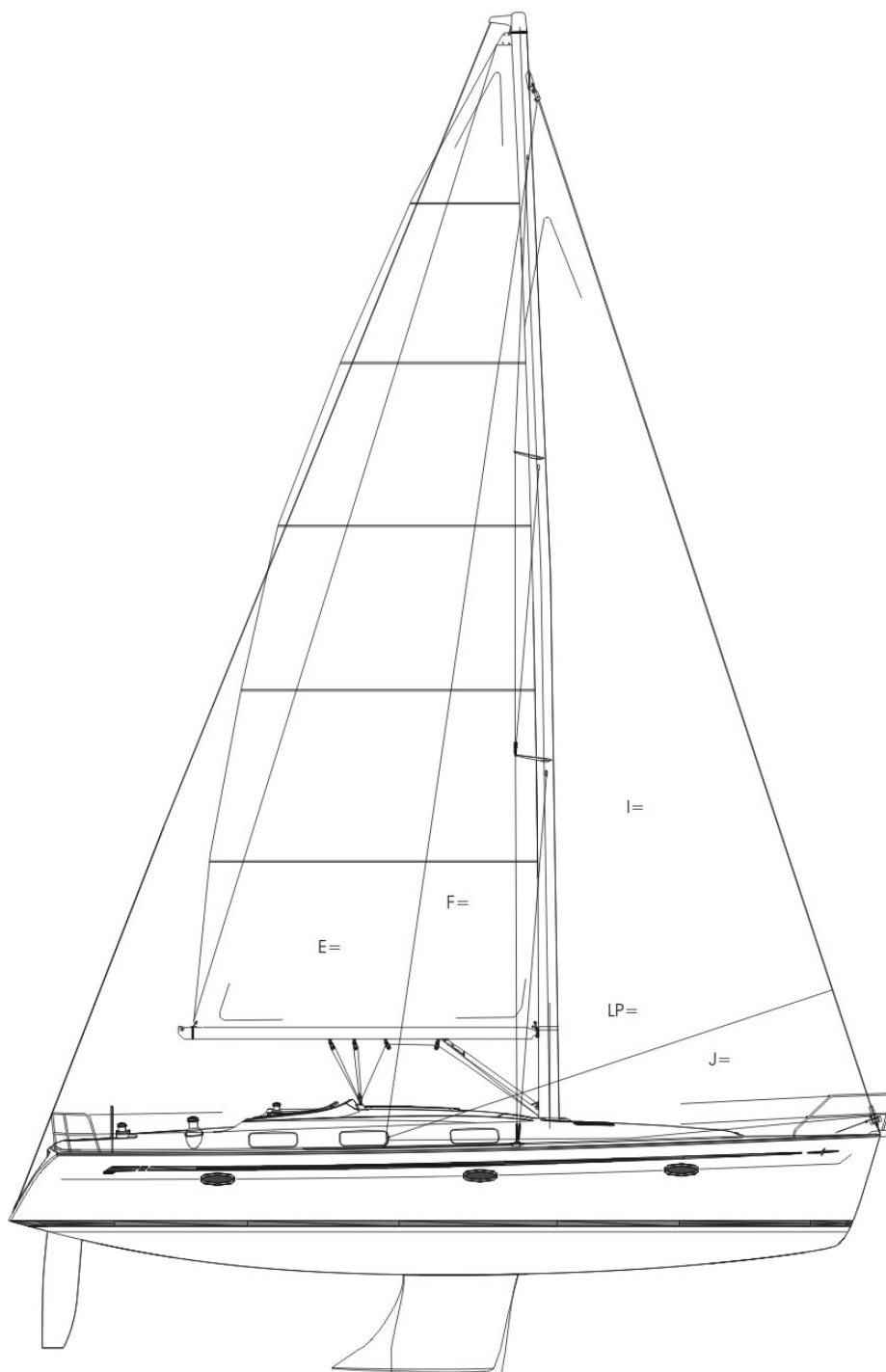
1 fresh water tank	abt 210 l	on port side below the aft cabin berth.
1 fuel tank	abt 210 l	on starboard side below the aft cabin berth.
1 fresh water tank	abt 150 l	into the bow.
1 holding tank I	abt 60 l	
1 holding tank II	abt 70 l	
1 gas cylinder (option)	abt 3 kg cylinder (Butane)	

1.1.6. Fixing points for cranes, resting-points for slipping and transport**Attention!**

The rear webbing will be placed in the area of the sail drive The rear belt should be placed between shaft and keel, the front belt in front of the keel.

1.2 General arrangement

1.2.1 Rigging plan

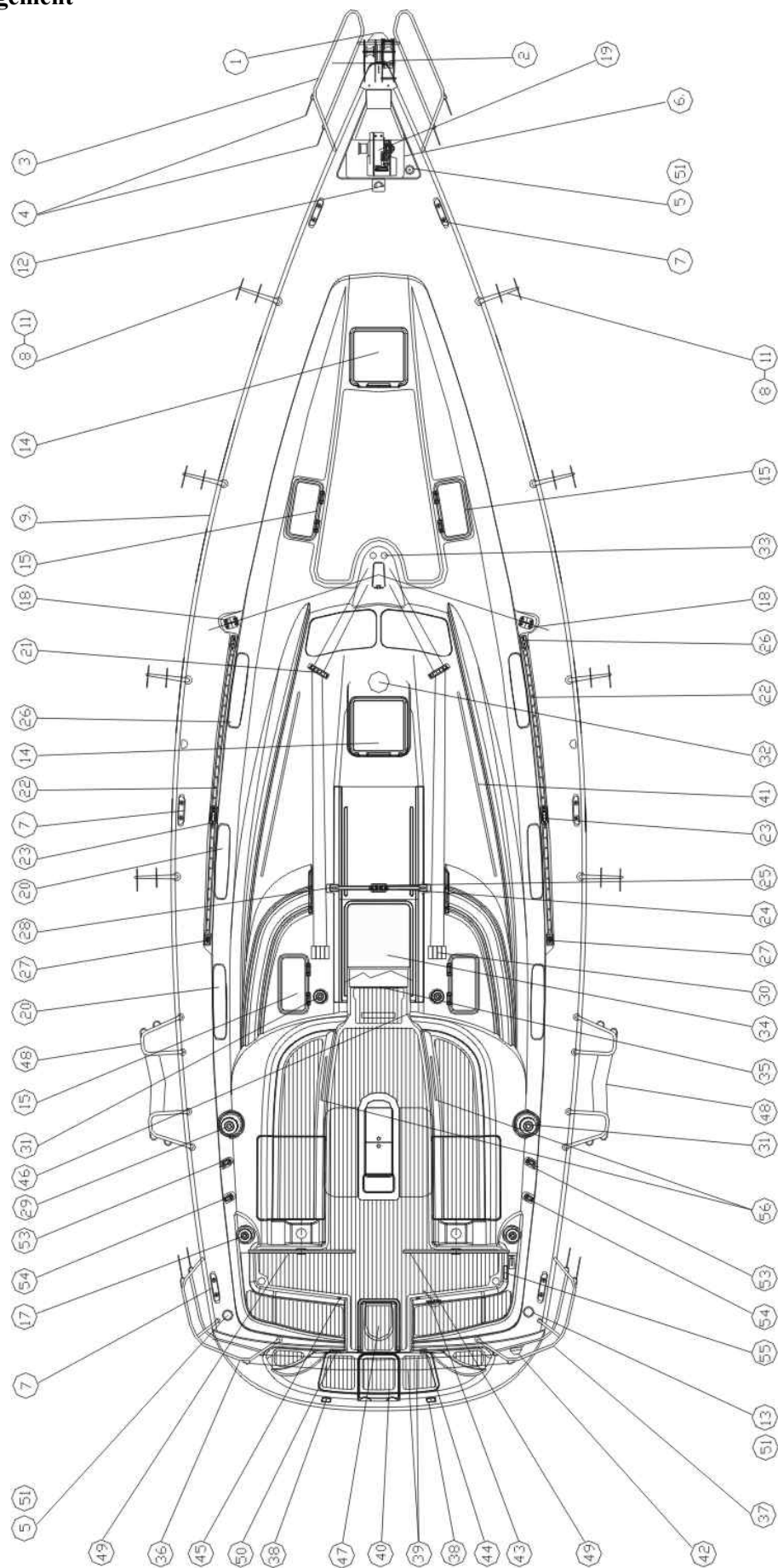


Reference

The valid measuring of the foresail reefing gear are on the enclosure note at the carton of the Furlex-foresail reefing gear.

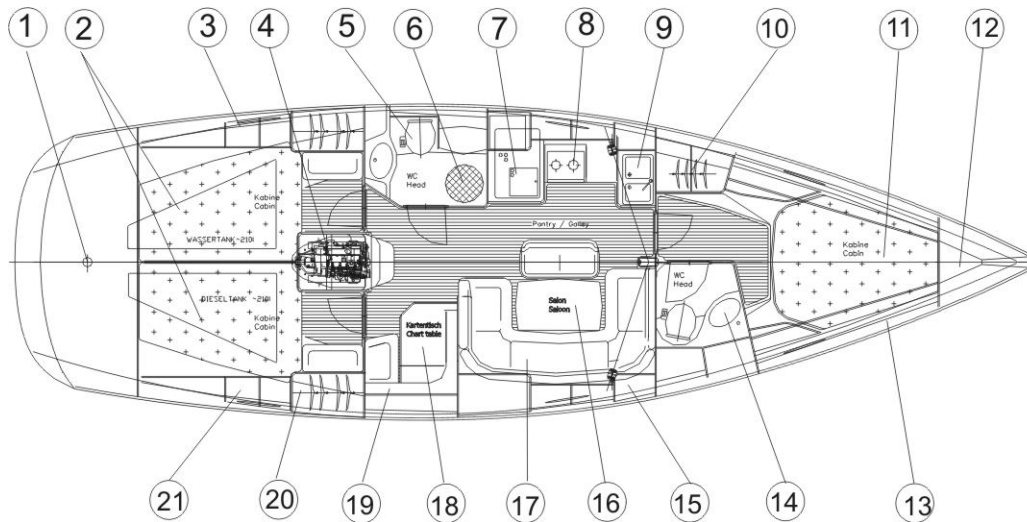
	Minimum operating condition(m_{MOC})	Loaded displacement condition (m_{LDM})
STIX	35,54	37,12
Angle of vanishing (degrees)	111°	107°

1.2.2 Deck arrangement



1	Navigation light	Zweifarbennleuchte
2	Bow fitting	Bugbeschlag
3	Bow pulpit	Bugkorb
4	Guard lines	Relingsdurchzüge
5	Water inlet	Wassereinfüllstutzen
6	Anchor chain bail	Ankerkasten
7	Mooring cleats	Belegklampe
8	Stanchion	Relingsstütze
9	Teak batten	Teakleiste
11	Stanchion base	Relingsfuß
12	Hooking point (option)	Decksauge (Option)
13	Fuel inlet	Dieseinfüllstutzen
14	Op. hatch	Vorschiffsluke
15	Hatch	Luken
17	Spinnaker winch (option)	Spinnakerwinde (Option)
18	Main shrouds	Wantenpütting
19	Electric windlass	Elektrische Ankerwinde
20	Opening portlight	Portlight
21	Deck organizer	Umlenkblöcke
22	Genoa track	Genuaschiene
23	Genoa track car	Genuaschlitten
24	Main sheet track	Großschotschlitten
25	Main sheet track car	Großschotschiene
26	End piece of rail	Schienenendstück
27	End of rail with turning blocks	Schienenendstück mit Umlenkblöcken
28	End piece main sheet track	Schienenendkappe
29	Genoa winch	Genuawinde
30	Stopper	Stopper
31	Halyard winch	Fallwinde
32	Ventilator	Decklüfter
33	Cable penetration	Kabeldurchführung
34	Sliding hatch	Schiebeluke
35	Washboard	Steckschott
36	Aft port push pit	Heckkorb links
37	Aft starboard push pit	Heckkorb rechts
38	Backstay chain plate	Achterstagpütting
39	Life line with pelican hook	Relingszug mit Pelikanhaken
40	Boarding ladder	Badeleiter
41	Hand hold	Handreling
42	Stern light	Hecklaterne
43	Hand operated bilge pump	Handlenzpumpe
44	Shore socket 230 V	Steckdose 230 V
45	Engine ventilation inlet	Belüftungsroste
47	Emergency tiller fitting	Notpinnenbeschlag
48	Passage	Relingsdurchgang
49	Steering wheel	Steuerrad
50	Shower	Dusche
51	Tank air vent	Tankbelüftung
53	Footblock with lock off	Liegender Block mit Stopper
54	Footblock -port/starbord	Liegender Block Back-/Steuerbord
55	Engine panel	Motorinstrumententafel
56	Cockpit port light	Cockpitfenster

1.2.3 Accommodation plan



1	Steering gear	Rudernanlage
2	Double bed	Doppelbett
3	Shelf	Bord
4	Companion way / engine room	Niedergang / Motorraum
5	Head	WC
6	Shower	Dusche
7	Ice box	Kühlbox
8	Gas cooker with oven	Gasbackofen
9	Sink	Spüle
10	Hanging locker	Schrank
11	Double bed	Doppelbett
12	Chain locker	Ankerkasten
13	Shelf	Bord
14	Head	WC
15	Book locker	Bücherbord
16	Saloon table	Salontisch
17	Seating	Sitzgruppe
18	Chart table	Kartentisch
19	El. switch panel	Elektr. Schalttafel
20	Hanging locker	Schrank
21	Shelf	Bord

1.3 Drive systems

1.3.1 Sails

The SY Bavaria 42 is equipped with the following standard sails:

Main sail standard	abt 43 sqm
Main sail (fully-battened)	abt 43 sqm
Genoa 150%	abt 53 sqm
Fock	abt 36 sqm
Spin	abt 125 sqm

1.3.2 Rigging

Mast

- LM- Profile, without taper; – 18 deg. double spreaders , angular; - 2 halyards, topping- and boom lifts,
- tipping line and fittings.

Boom

- LM-Profile; - clew outhaul; - 2 reefing lines; - eye for mainsheet; - eye for tipping line.

Standing rigging (made of 1x19–lace, material 4401), consisting of:

forestay with excessive footage (headsail reef system)			1x
intermediate shroud	2x	permanent backstay	1x
lower shroud	2x	permanent backstay tackle	1x
upper shroud	2x		

Running Rigging

Inside the mast:

- | | |
|-------------------------------|--------------------------------|
| - Main halyard | Option: |
| - Genoa halyard | - Spinnaker halyard (attached) |
| - Boom lift | - Spinnaker uphaul |
| - 3 additional weighing lines | - Spinnaker downhaul |

Additionally we draw your attention to the enclosed trim instructions of the manufacturer.



Attention

Before you start a sailing turn:

Check all wires, ropes and lines, rigging screws and splints.

The latter should be secured with tape or by bending them. Exchange damaged or deformed bolts.

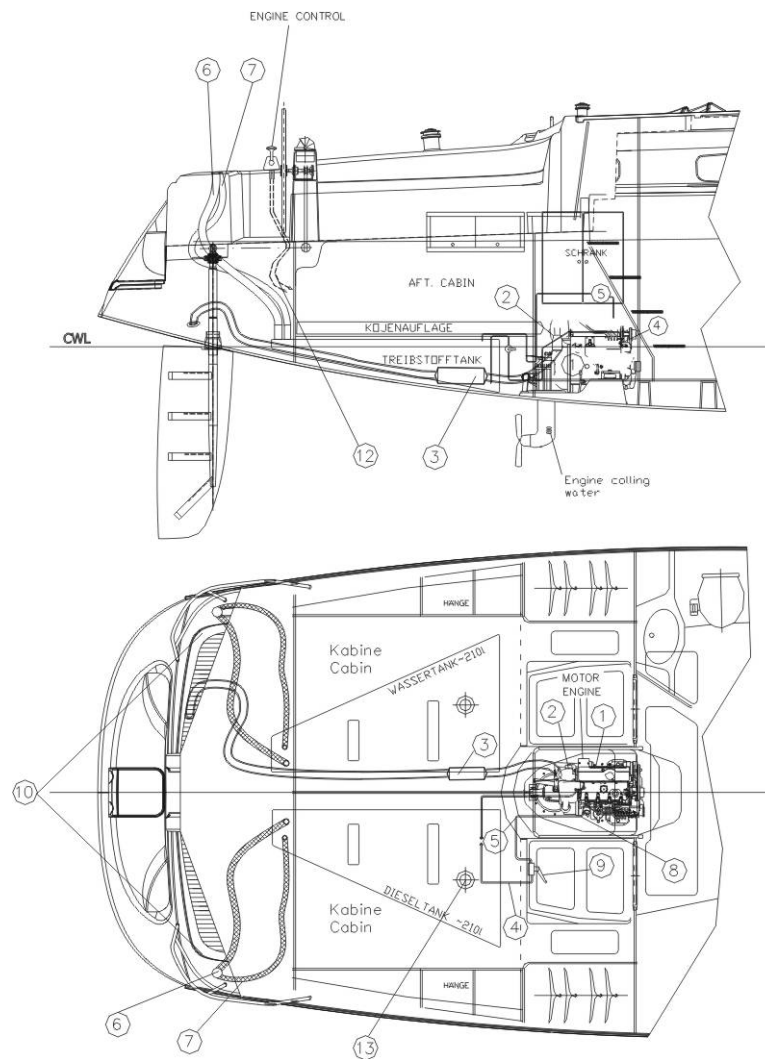
1.3.3 Motorising, engine room, gear, and propeller

This yacht is equipped with a inboard diesel engine with a sail-drive gear and a fixed propeller (option: folded propeller).

The engine room is separated from living quarters by plywood-bulkheads covered with sound-insulating material. An access is possible through:

- a shutter below the companion way,
- detachable bulkhead in the aft cabin beside the engine room

Cooling-water supply to the engine is realised via the sail drive-gear.

Engine plant

1	Motor Volvo	Motor Volvo
2	Engine exhaust system	Motorabgassystem
3	Exhaust water lock	Abgaswassersammler
4	Engine fuel intake	Kraftstoffeinfüllstutzen
5	Feedback fuel	Kraftstoffrückführleitung
6	Fuel tank filling hose	Kraftstoffeinfüllschlauch
7	Fuel tank ventilator	Tankentlüftung
8	Fuel filter	Kraftstofffilter
9	Fuel shut off cock	Kraftstoffabsperrhahn
10	Ventilation	Lüftungen
11	Engine panel	Motorinstrumententafel
12	Engine control cables	Motorfernbedienungskabel
14	Fuel gauge	Kraftstofftankfüllanzeige

2. Installations and circuits

2.1 Tanks and piping – water

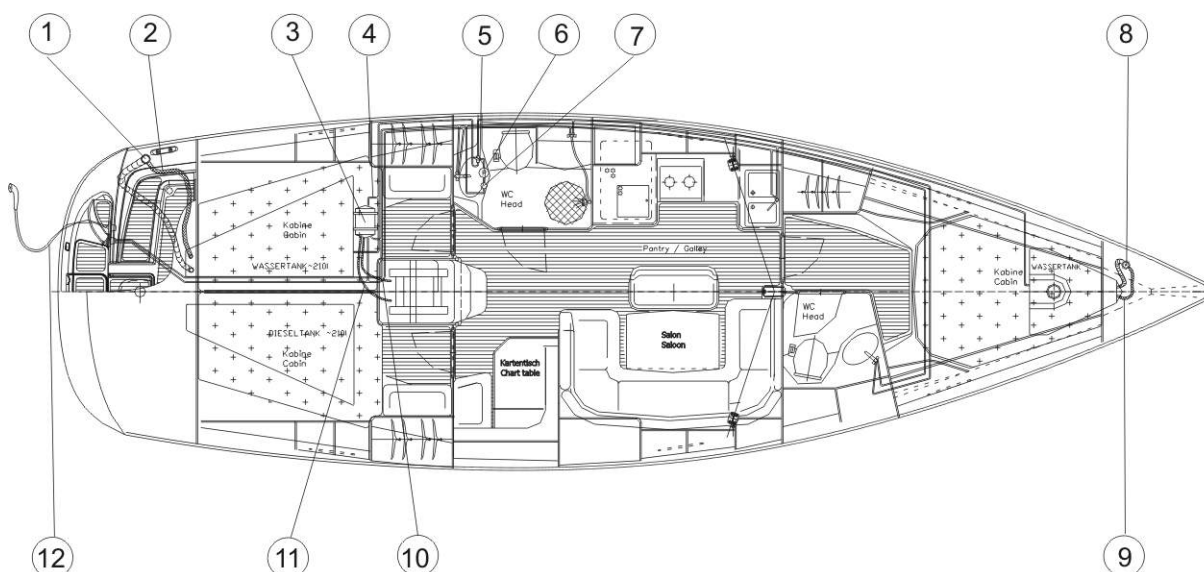
2.1.1 Fresh water, drinking water –cold

The yacht has two water tanks with a capacity of altogether about 360 l. Fresh water is supplied via a water inlet at the transom, port side and on the forecastle near the chain locker. You can take water from the tank over a hose connection leading to the pressure water-pump.

This pump, realising the complete cold water circulation, is fitted below the pantry. An interruption of the operation of the pressure pump is done by cutting off all ducts. All pipes/hoses should be checked for leaks if the pump continuous working though all ducts were cut off properly.

The pump is protected by a filter which should be regularly checked and cleaned if necessary.

Components:



1	Deck plate (inlet)	Einfüllstutzen
2	Tank ventilation	Tankentlüftung
3	Water heater	Boiler
4	Backflow of water heater	Rückfluss Boiler
5	2 – way valve	2-Wegehahn
6	Fresh water pump	Frishwasserpumpe
7	Accumulator tank and pressure switch	Druckgefäß und Druckschalter
8	Deck plate (inlet)	Einfüllstutzen
9	Tank venting	Tankentlüftung
10	Engine circulation	Motorkreislauf
11	Draining water heater	Entleerung Boiler
12	Shower	Cockpitdusche



Note

Exchange the water in tank from time to time.
Additionally you should use common purifiers.

2.1.2 Sea-water circulation

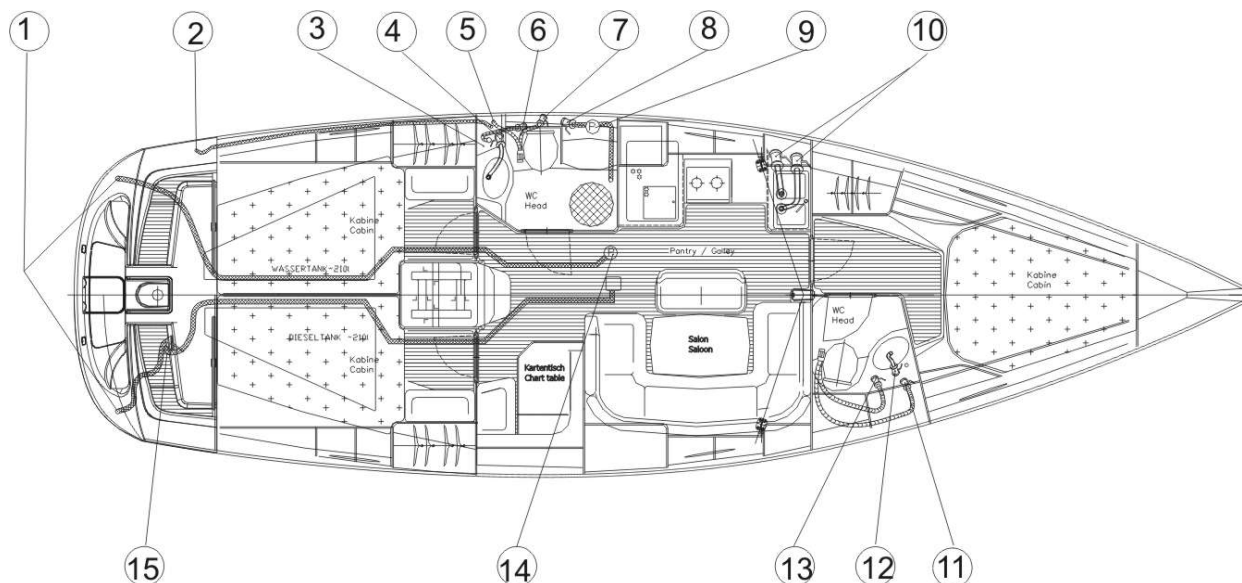
Sea-water is necessary for both WC flushing and engine cooling (see: 2.9).

2.1.3 WC –installation: see enclosed directions for use


Attention

If you are not aboard you should close all sea-valves.

Components: WC-flushing



1	Outlets	Borddurchlässe
2	Waste water tank ventilation	Fäkalientankentlüftung
3	Waste water tank	Fäkalientank
4	Wash basin drain valve	Kugelhahn Ausgang Waschbecken
5	Toilet drain	Ausgang WC
6	Waste water drain valve	Kugelhahn Ausgang Fäkalientank
7	Toilet water inlet valve	Kugelhahn Eingang WC
8	Electric shower drain pump valve	Kugelhahn Ausgang elektrische Duschpumpe
9	Electric shower drain pump	elektrische Duschpumpe
10	Sink drain pump valve	Kugelhahn Ausgang Spüle
11	Toilet water outlet valve	Kugelhahn Ausgang WC
12	Wash basin drain valve	Kugelhahn Ausgang Waschbecken
13	Toilet water inlet valve	Kugelhahn Eingang WC
14	Electric bilge pump	Elektrische Lenzpumpe
15	Hand operated bilge pump	Handlenzpumpe

2.2 Tanks and pipes – fuel

Storage tank

There is a 210 l plastic diesel tank with an inspection opening on starboard-side below the aft berths. It is filled via a fuel inlet with a chrome cover (marked with DIESEL) at the transom of the yacht. The tank pickup is situated on the tank. The supply is made of a fire-proof fuel hose according to ISO 7840. The vent line is led to above deck.

Supply of the engine

The engine is supplied via a suction pipe from the upper edge of the tank. Due to the short distance a fire proof fuel pipe is used throughout. This is led via a wide-meshed filter/ water separator, fuel pump and fine filter to the engine and then back to the tank.



Attention

A trouble free operation of the engine and heating is only possible, if the fuel is clean. That's why a regular inspection and cleaning of filter/water separator is unavoidable. The fuel tank should be completely emptied and cleaned once a year.



Warning

When refilling the tank:

- Switch off the engine, heating and stove!
- Do not smoke or use open lights!

2.3 Steering gear

2.3.1 Description of the system

The rudder is a suspended, balanced hydrofoil mid ship rudder. It is operated by hand from the steering wheels at the steering posts in the cockpit. Transmission of power is realised by means of chain control to the rudder quadrant. With the autopilot (option) there is an electric motor installed.

2.3.2 Rudder blade and rudder bearings

The rudder blade is a profiled one. It consists of a FRP-body. The rudder post is made of a sea-water resistant stainless steel (V4A) and is laminated into the blade. The post runs in two easy-going and special rudder bearings. The rudder is fixed by a mounting clip at the upper end of the post that also serves for the keeping of the rudder tiller.

The mounting clip is additionally secured with a straight stud bolt on the rudder post.



Attention

Check regularly and repair if necessary:
Tight hold of the mounting clip on the rudder post.

The rudder bearings used by **BAVARIA YACHTBAU** are self-setting bearings. Since rudder bearings are subject to wear and tear they should be inspected and maintained regularly.

Emergency tiller

The emergency tiller is stored in the starboard locker seat.

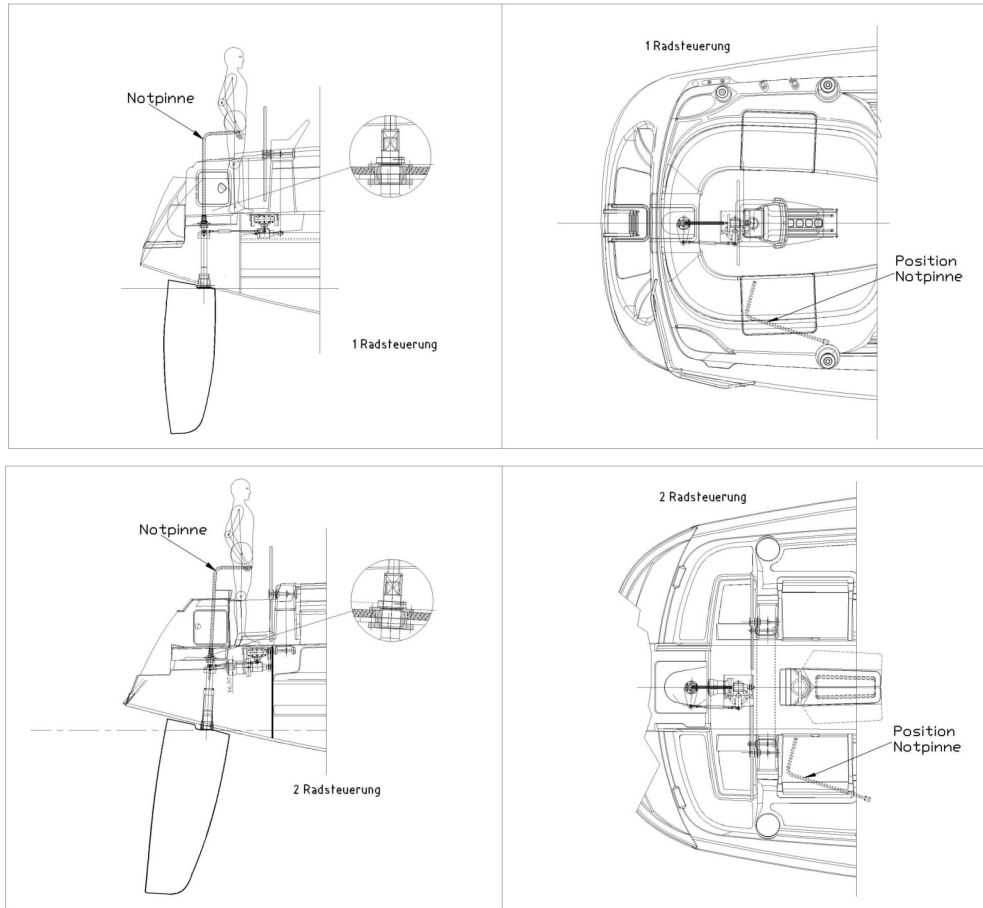
In case of emergency remove the steering wheel, the rudder quadrant for rudder bar and/or the quadrant for the auto pilot (option). Moreover the rudder head-cover has to be removed and the emergency tiller to be mounted and secured.



Attention

Please ensure a suitable bearing lubrication of the necessary parts of the rudder installation with water-proof lubricants (or Teflon). Bearing clearance has to be avoided and can be adjusted at the top bearing. The post must have no clearance but should not need heavy movements.

You can brake or even fix the steering wheels by turning a screw home. Make always sure that this brake is not drawn especially when sailing with the auto pilot. This would mean an overload for the electric motor. The socket of the steering gear is integrated into the deck's form. On the socket there is the casing of the wheel hub. A chain is laid over a tooth-wheel of the hub. Both chain pulls are running to the rudder gear which passes the adjusting force by the rudder bar to the rudder quadrant. Both chains are tightened each with a rope pull. It is highly recommendable to check these rope pulls from time to time and to retighten if necessary.



2.4. Bilge pumps, bilge lines

The chain locker is made watertight against the yacht. It is self-bailing through two holes in the skin. All **BAVARIA** yachts have got a self-bailing cockpit, too. The drain wells are situated at the rear and lowest part of the cockpit and are led outboard through the transom with hoses.

2.4.1 Description of the pumping arrangement

At **BAVARIA** Yachts the cockpit is self bailing. The moreover one the possibility of bailing water consists of the inside of the yacht. Both strainers are in the Bilge in the deepest place in the fair range. The soil bulkheads in the fair are connected by drillings, so that with possible water break-down both pumps can be used. The bail lines are shifted by means of hose after aft to the mirror (withdrawal). The cockpit bailing is made by the passage at the mirror (under the attendant seat).

In the anchor box are on both sides bilge openings, which are covered with a screen. In addition your yacht is equipped with a hand spring pump as well as an electrical bilge pump (achievement 75 l/min.).

With employment of the hand spring pump the pumping lever of the pump is to be pulled out. The spring procedure is made by pumping movements.

The electrical bilge pump is started by manipulation of the symbolically marked switch at the panel. - before in any case also main switch turns on –

We recommend to use the electrical bilge pump only with working machine; the full achievement of the electrical bilge pump will be reached then.

A draw bucket is an ideal means for bailing out water. It should always be ready in a cockpit seat locker.



Attention

Close all sea valves if you leave your yacht. Valves being not clearly visible, like e.g. in the toilet room, should only be opened before use and closed short after.

Warning

In a serious situation, e.g. in case of a heavy inrush of water as a consequence of a collision, the pumping capacity might not be sufficient. Take measures for damage control with collision mats or other suitable means.



Note

In case of spherical valves a transverse lever-direction indicates: CLOSED and a longitudinal ones means : OPEN

Maintenance note

The tightness of ducts should be inspected regularly.
Retighten all hose clips and the stuffing boxes of valves

Components of the bilge pumping installation: see drawing 2.1.3

2.5 The electric installation

2.5.1 The AC-installation (230 Volt)

The yacht has got a shore connection (option) by which it can be supplied with electric power from ashore when being berthed in a port. The plug box (meeting the CEE-norm) is installed at the starboard locker seat of the yacht. The power is supplied into a shore connection unit, placed under the chart table.

2.5.2 The DC-board net (12 Volt)

All electric devices aboard are supplied with the 12 V DC. A main-switch is installed in the electric panel under the chart table. Power distribution is effected by a switchboard above the chart table. The lettering next to each switch refers to the corresponding consumer-group.

You can find all the switches for the 12 V consumers at the switchboard. By this you can operate different consumer-groups, being marked with logos or lettering, separately. Some of the switches are designed for an installation of additional electric devices. The motor vehicle flatconnectors are arranged on the back of the panel.

2.5.3 Operating the installation and specific features

The combination of an AC- with a DC installation offers a clearly higher comfort but requires some special knowledge.



- Make sure that your standardized CEE plug is compatible with the phases of the land plug socket.
- Control and renew regularly the wear condition of the underwater anode of the potential equalization.

Charging the batteries

All batteries are maintenance-poor and drain-protected. They are charged via a buffer diode by the motor-generator. Charging the starter battery always takes priority to ensure a safe start of the engine.

AC-consumers

The safety contact plug-box at the electric panel is designed for electric tools to be used for small repair work. Further plug sockets are in the toilet areas, the pantry and at the water heater.

DC-consumers

The essential consumers are:

- | | |
|-----------------------------|--------------------|
| - navigation lights | bilge pumps |
| - engine displays | tank display |
| - VHF-radio wiring (option) | electronic devices |
| - devices for comfort | |

Navigation lights have absolute priority. In case of a lack of capacity first all other consumers have to be switched off. By a stand-by operation of the engine, even when under sail, the batteries can be brought up rather quickly. After a while you can switch on the other consumers again.

2.5.4 Important warnings on the DC-installation (12 Volt)



Never

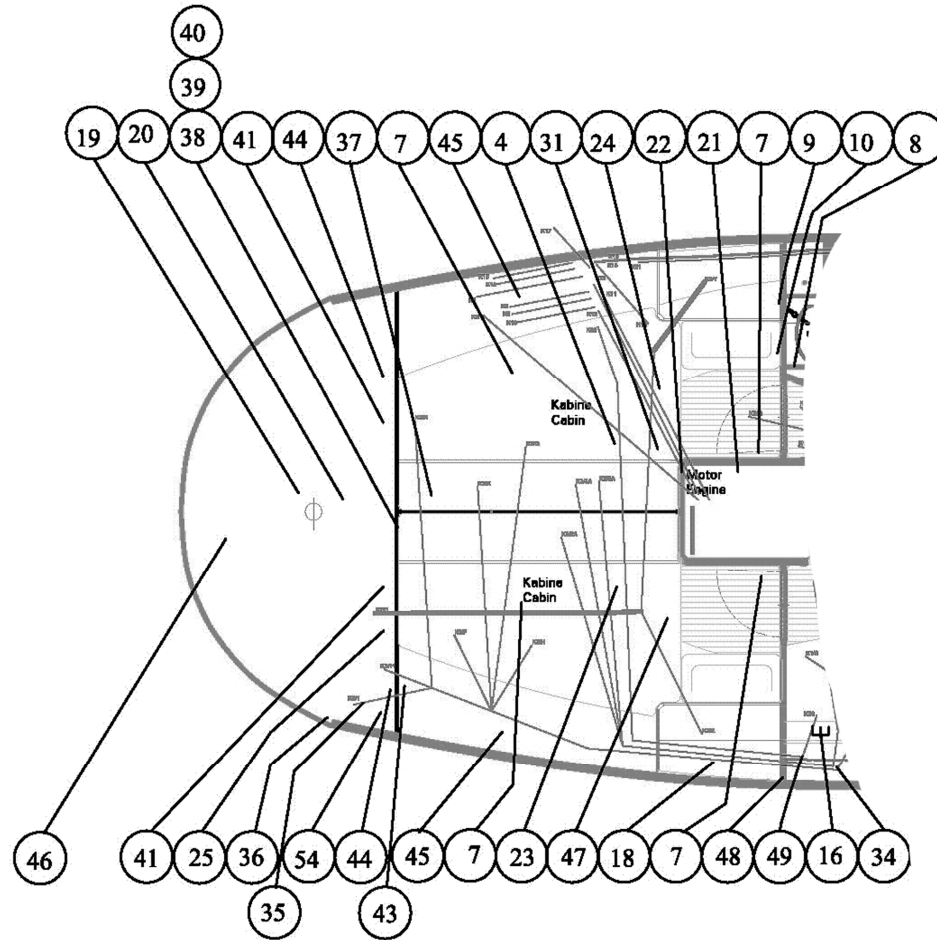
- a) work on electric installation while the system is energized
- b) modify the craft's electrical system or relevant drawings: installation, alterations and maintenance should be performed by a competent marine electrical technician.
- c) alter or modify the rated current amperage of overcurrent protective devices;
- d) install or replace electrical appliances or devices with components exceeding the rated current amperage of the circuit;
- e) leave the craft unattended with the electrical system energized, except automatic bilge-pump, fire protection and alarm circuits.

2.5.5 Important warnings on the AC-installation (230 Volt/ 115 Volt)

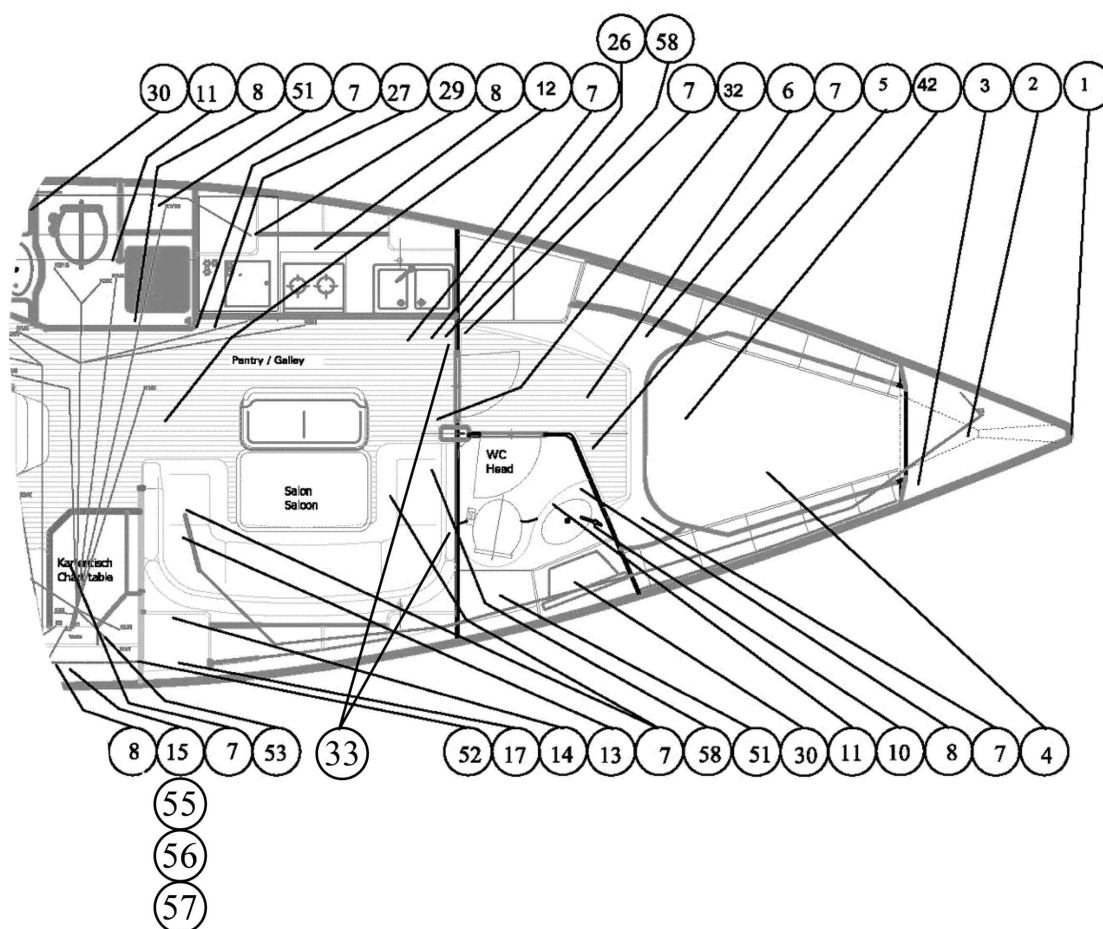


- a) Never work on electric installation while the system is energized
- b) Do not modify the craft's electrical systems or relevant drawings. Installation, alterations and maintenance should be performed by a competent marine electrical technician. Inspect the system at least biennially.
- c) Disconnect shore-power connections when the system is not in use and while working at the electrical system.
- d) Connect metallic housings or enclosures of installed electrical appliances to the protective conductor system in the craft (green or green with a yellow stripe conductor).
- e) Use double insulated or grounded (earthed) electrical appliances.
- f) WARNING: Do not allow the shore-power cable end to hang in the water. An electrical field can be caused which can cause injury or death to nearby swimmers.
- g) WARNING: To minimize shock and fire hazards:
 - Turn off craft's shore-power connection switch before connecting or disconnecting shore-power cable.
 - Connect shore-power cable to craft's inlet before connecting to shore-power source.
 - Close shore-power inlet cover tightly.
 - Do not alter shore-power cable connectors, use only compatible connectors.

2.5.6 Distribution of electric devices:



1	Zweifarbenleuchte	Navigation light
2	Elektrische Ankerwinde	Electric windlass
3	Bedienteil Ankerwinde	Windlass switch
4	Frischwassertankgeber	Fresh water gauge
5	Echolot Geber	Echo sounder
6	Sumlog Geber	Log
7	Halogenleuchten	Light
8	Neonleuchten	Neon lamp
9	Wasserpumpe	Water pump
10	Duschpumpe	Shower drain pump
11	Duschschalter	Shower drain switch
12	Elektrische Lenzpumpe	Bilge pump
13	Batterien	Batteries
14	Batterie Ladegerät	Battery charger
15	Elektro Panel	Electric panel
16	Hauptschalter (Motor/Verbraucher)	Main switch (engine/consumer)
17	Kurscomputer Auto – Optional	Auto pilot – option
18	Kompass Auto – Optional	Compass – option
19	Rückholgeber Auto – Optional	Repeater – option
20	Motor Auto – Optional	Auto engine – option
21	Anlasser Motor	Engine start
22	Gleichrichter	Detector
23	Dieseltankgeber	Fuel tank gauge
24	Boiler	Water heater
25	Heckleuchte	Stern light
26	Kühlschrank	Refrigerator
27	Kühlaggregat	Cooling unit



28	Landanschluss 230 V	Shore socket 230 V
29	Steckdose Küche 230 V	Socket 230 V
30	Steckdose Duschaum 230 V	Socket 230 V
31	Steckdose Boiler	Socket 230 V
32	Kabeldurchführung	Cable penetration
33	Lautsprecher – Optional	Speaker - option
34	Radio- Optional	Radio – option
35	Antennenkabel Radio – Optional	Radio antenna – option
36	Motor Panel	Engine panel
37	Tankuhr	Tank gauge
38	Tridata Bedienteil	Tridata unit
39	Wind Bedienteil	Wind gauge
40	Auto 6001 Bedienteil – Optional	6001 unit - option
41	Kompass	Compass
42	Bugstrahlrudermotor - Optional	Bow thrusters engine – option
43	Steuerung Bugstrahlruder - Optional	Bow thrusters unit – option
44	Genuawinsch Bedienteil - Optional	Genua winsh unit – option
45	Genuawinschen Motor - Optional	Genua winsh motor – option
46	Heizung - Optional	Heater – option
47	Dieselpumpe Heizung - Optional	Heater fuel pump – option
48	Thermostat Heizung - Optional	Heater thermostat – option
49	Fühler Heizung - Optional	Heater gauge – option
50	Generator - Optional	Generator - option
51	Fäkalientankgeber	Waste water tank gauge
52	Sicherung	Fuse
53	Kartenplotter – Optional	Map plotter - option
54	GPS Antenne	GPS antenna
55	Relais Autopilot	Relay
56	Sicherung Batterielader	Fuse battery charger
57	Relai Ankerwinde	Relay anchor winch
58	Lampe	Light

2.5.7 Wiring plans

2.5.8 Distribution plans

2.5.9 AC-distribution

See provided e-documentation

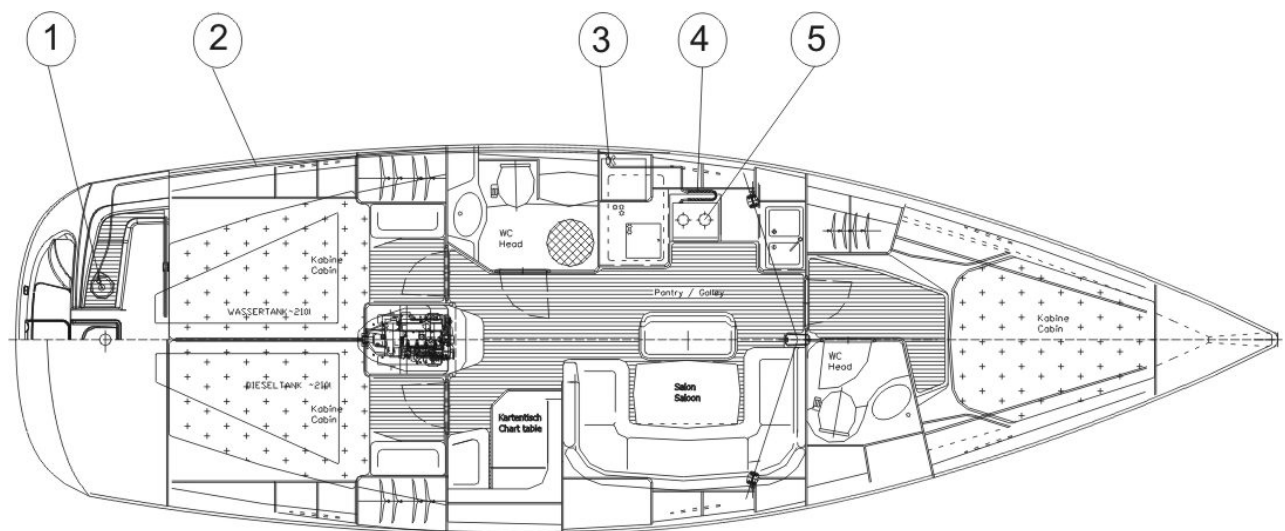
2.6 L.P.G. installation

The gas installation for the stove meets the European norm EN 10239. Attached please find the test-certificate.

The gas pipe leading to the stove from the standard 3 kg-gas cylinder is an 8mm copper pipe. It is placed into a self-bailing casing moulded into the deck in the rear cockpit area. All gas pipes have been installed according to the German safety regulations. The best-by date for the soft connection hoses between the gas cylinder and the copper pipe and between copper pipe and stove is printed onto the hoses. They have to be replaced after the expiry date.

The reducing valve in the gas cylinder casing has a service pressure of 30 mbar. The flow rate is 1 kg/h.

2.6.1 The components



1	Gas tank with valve	Gasflasche mit Reduzierventil
2	Copper tube	Kupfer Rohr
3	Gas stop valve	Gaskugelhahn
4	Rubber hose	Gummschlauch
5	Gas stove with oven	Kocher mit Backofen

2.6.2 Operation

Gas installations require care. That's why you should follow this sequence:

**Attention**

Open the stop valve in the gas cylinder casing
Open the valve before the stove
Open a stove valve and lighten the gas
Keep the valve open until the glow timer allows further burning.

**Attention**

For finishing follow the same (above mentioned) sequence from the valve in the gas cylinder casing to the stove valve to allow all gas in the piping to escape and burn.

**Attention:**

- Do not use liquids containing ammonia for checking the pipe.
- **Never handle with open light and do not smoke if you look for leakage or if you connect a new gas cylinder.**

And here is some more advice on how to prevent difficulties with the gas installation:

- Close all gas valves if the stove is not in use. In a case of emergency you should close the valves immediately.
- The stove valves have to be closed before the gas cylinder valve is opened.
- Check the L.P.G. installation for possible leakages regularly. Check all connections with soap suds or the like (for doing so the stove valves have to be closed – all other valves of the installation have to be open).
- If you find any leakages close all valves and have the installation repaired by a specialist before further use.
- Since the flames consume oxygen a proper airing and de-aeration is necessary. Do not use the stove for heating the cabin.
- Valves of empty gas cylinders have to be closed and disconnected from the installation. Have the covers ready.
- Do not use the gas cylinder casing for storing other equipment.
- Never leave your yacht unattended if the stove is in use.
- Check the hose pipes at least once a year. Let these replace periodically.
- If you install a new stove make sure that it has got the same working pressure.
- Check the elements at least once a year. Let these periodically replace.

2.7 Fire protection

When building the yacht special attention was paid to avoid the risks of fire. This includes the choice of materials, the distance of stove flames to the surrounding built-in furniture and an island position of the engine. The engine room has got a lining with fire resistant insulating material.

As the owner of the yacht you should keep this state and pay attention to the following advice:



Attention:

Keep the bilge clean and check regularly if there is a smell of fuels or gas.

Do not have any freely suspended curtains above or close to the stove or other devices with open fire.

Inflammable material must not be stored in the engine room. If you store non-inflammable materials in the engine room make sure that they are protected against falling into the engine installation or are in the way.

Furthermore you and your crew can support fire protection if you follow the following advice:



Never

Obstruct any exits or hatches.

Alter safety installations like fuel- and gas valves and electric switches and the like.

Leave the yacht unattended if the stove or the heating is in use.

Never

Use gas lights in the yacht.

Fuel the tank or replace gas cylinders if the engine is running or if the stove or heating is used.

Smoke or use open lights while handling with fuel or gas.

The well-known sources of danger on board are

- the stove in the pantry and
- the engine room.

If, despite all precautionary measures, a fire should break out aboard, there are four fire extinguishers a board which are fixed at the following places:

Nr. 1: **Powder extinguisher** in the starboard locker seat, at least fire extinguishing 10A/68B

Nr. 2: **Powder extinguisher** in the port locker seat, at least fire extinguishing 10A/68B

Nr. 3 and 4: **Powder extinguisher** at the navigational seat, at least fire extinguishing 10A/68B

Additionally a light **fire retarding cloth** is placed in the pantry, which is made of glass cloth and is very useful in the case of fire caused by overheat fat.

It is the yacht owner's duty

- to have all fire extinguishers regularly checked and maintained ;
- to have fire extinguishers replaced after the expiry date. The same goes if the extinguishers should have been used. The new extinguishers should at least have the same capacity as the discussed ones.

It is the yacht owner's or skipper's duty

To make sure that

- all extinguishers are freely accessible
- to inform all persons on board about:
 - the position and use of all fire extinguishers and the fire retarding cloth,
 - the position and function of the opening for the extinguisher's nozzle in the engine room bulkhead,
 - the exit through the escape hatch above the fore-berths.

**Caution**

Test the fire extinguishers regularly!
Train yourself as regards fire fighting.
Always obey seaman's duty!

2.8 Anchor

The bower anchor (plough anchor), about 21 kg, hot-galvanised, (is known for its high holding power). It lays ready-to-fall in the bow fitting. The chain has a length of 50 m and a nominal thickness of 8 mm. It is weighed and run out by an electric anchor windlass (option) operated with a remote control. The remote control is placed in the chain locker before use and its function is activated at the switch board.

Furthermore it is recommendable to have a stern anchor as well as sufficient mooring- and towing lines with the necessary strength on board:

E.g.1 stern folding anchor (4-fluke grapnel anchor), 12 kg, hot-galvanised, fixed at the aft guard-rail. 6 m chain forerunner, thickness 7 mm, 34 m polyamide anchor rope, 18 mm, 3-strand hawser laid. It is stored in the port transom seat. The rope is cleated aft.

2.9 Engine cooling system**Engine cooling**

The engine has got a two-circuit cooling system. Water enters through the sail drive, is led to the heat exchanger and then injected into the exhaust gas pipe. Together with the exhaust gas the cooling sea water is exhausted via the silencer and the exhaust pipe at the stern. This guarantees a trouble-free engine operation. Moreover the engine noise is reduced.

All hose connections of the system are secured with double stainless steel clips.

**Attention**

Check and clean the sea water filter in regular intervals, depending on the water quality.
Before starting the engine make sure that the cooling water inlet is open.
Have a short look into the engine room for possible leakage.
When the engine is running it is highly recommendable to check regularly if cooling water is escaping with the exhaust gas.

2.10 Exhaust gas system

The yacht is fitted with a "wet" exhaust gas system, i.e. cooling sea water is injected into the exhaust gas elbow causing a cooling of exhaust gases. This mixture is led down into a silencer/water lock, runs through a pipe in the locker seat on the starboard side of the aft cabin, is led upwards at the stern and escapes to the side above the water-line.

The exhaust gas hose consists of a synthetic rubber material with an integrated steel spiral.

The hose is heat-resistant (for some time) and should be checked and replaced if necessary.

A constant flow of sea water has to be guaranteed. The hose is secured at its joints with two clips.

If there is an interruption of the sea water flow, the temperature sensor in the exhaust gas hose will release an visual and acoustic warning. In this event you should stop and switch off the engine immediately until the problem has been settled (see manual of the engine manufacturer).

**Attention**

A regular inspection if saltwater comes out of the exhaust is urgently advisable.

2.11 Ventilation/Airing

We have taken the following measures for a proper ventilation of all rooms:

Chain locker

Certain ventilation is realised through the hawser port in the cover of the chain locker and through its bilge holes.

Living cabins/ Salon and forward quarter

Two ventilators

Aft cabin

2 side lights /bull's eye showings to the cockpit

Components:

1 deck ventilators, 6 side lights, 2 folding hatches

Fresh air:

Fresh air is sucked up through openings in the locker seat, heated and led through a flexible piping system to the outlets. The amount can be controlled by individual throttles.

2.12 Board ducts, sea water valves

Openings below the water line are possible weak spots. That is why we pay special attention to them. All board ducts in the underwater part, with the exception of the duct for the transmitter of the echo sounder, consist of brass-made screwed joints with spherical sea valves and hose nipples. All hose connections are secured with two clips each. For the cockpit drain special plastic joints are used.



Attention

Close all sea valves if you leave the yacht for a longer time. Valves being not clearly visible, like e.g. in the toilet room, should only be opened for use.



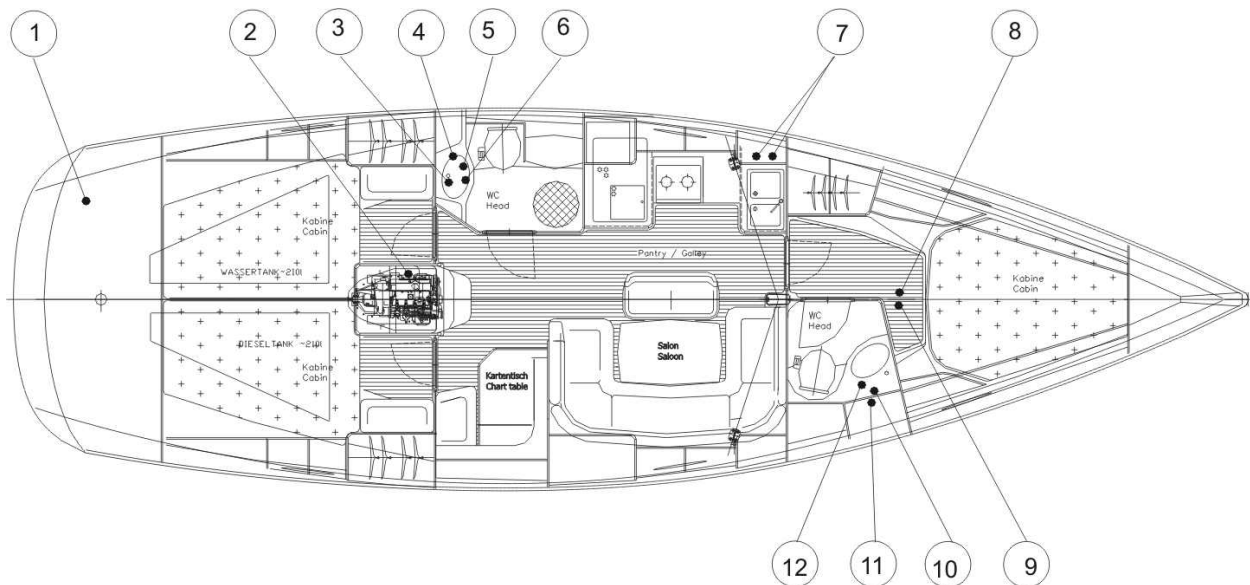
Maintenance note

The tightness of board ducts should be inspected regularly. Check and retighten all hose clips and stuffing boxes of valves if necessary.

Note

In case of spherical valves a transverse lever-direction indicates : CLOSED
And a longitudinal direction means: OPEN.

Board ducts:



1	Exhaust drain	Ausgang Auspuff
2	Cooling water strainer	Kühlwasserfilter
3	Toilet water inlet valve	Kugelhahn Eingang WC
4	Wash basin drain valve	Kugelhahn Ausgang Waschbecken
5	El. Shower drain pump	Ausgang Duschpumpe
6	Waste water drain valve	Kugelhahn Ausgang Fäkalientank
7	Sink drain valve	Kugelhahn Ausgang Spüle
8	Echo sounder	Echolot
9	Log	Geschwindigkeitsmesser
10	WC drain valve	Ausgang WC
11	Sink drain valve	Kugelhahn Ausgang Spüle
12	Toilet water inlet valve	Kugelhahn Eingang WC

2.13 Generator (Option for 44vision, 50vision, 50 Cruiser)

**Attention**

For maintenance and care on a regularly basis of e.g. oil level, filter, etc. see manual.

3. Environmental protection

BAVARIA YACHTBAU has already met the legal requirements referring to exhaust gas regulations with its choice for the inboard diesel installed. An exhaust gas type-examination certificate can be handed in or sent on later.

3.1 Fuel and oil

You should be especially careful when filling the tank. A (wet) cloth around the fuel inlet can prevent fuel from dripping into water. In your engine manual you can also find a diagram with a curve about the specific fuel consumption thus offering you some good hint on the most favourable engine speed.

For a necessary exchange of oil you should use a suction pump, because you cannot drain it off like with a car. The oil has to be exchanged at least once a year, even in case of a little operation time of the engine. A well-maintained engine should never leak. But in order to prevent even smallest amounts of oil being discharged overboard with the pumped out bilge water, the engine bed has been designed in form of a closed oil sump. All water from this sump, being possibly mixed with oil, has to be pumped into a separate canister and has to be deposited ashore.

In any case there should be oil-binders aboard.

3.2 Waste

For all water sportsmen it goes without saying: waste is not thrown overboard. This is also true for biodegradable waste. There should be a regular waste bag or –bin in a locker seat.

3.3 Sound

The wet exhaust pipe of the diesel engine reduces the engine sound considerably. Additionally rubber bearings, elastic couplings and the engine room insulation minimise sound emissions. Nevertheless you should not turn up the engine too quickly and, please, reduce the engine speed in waters with dense traffic.

3.4 Swell

Natural bank areas are sensitive against swell. Please keep sufficient berth. Formation of waves, caused by your yacht, is an indicator of where and when you should reduce your speed to avoid unnecessary swell. Pay attention to relevant signs.

3.5 Exhaust gas

Check the escaping exhaust gas regularly. The exhaust gas should show neither black smoke nor blue clouds. In such a case you should either clean the air filter or have a repair shop readjusted the engine.

3.6 Antifouling coatings

The underwater part of the hull of each yacht has to be protected with an antifouling coating because marine growth means more energy for propulsion. Today there is a wide range of protective paint with various effects for different bodies of water. Trust the recommendations of specialists for your decision. Coatings that are effective for years without any grinding in between are especially recommendable.

But if the coating has to be sanded to some extend you should arrange these activities with the port officials. Generally the ground under the yacht has to be covered with some plastic cloth to collect the rubbed down dust and dispose it.

3.7 Varnish removers

Most varnish removers contain aggressive substances and should not be used or as little as possible. A mechanical removal of paint is the much better way.

4. Maintenance

4.1 Maintenance, cleaning

1. Mast and rigging

See: Notes of the manufacturer

2. Sails

The sails are made of Dacron. This material is very robust and resistant. Thus the sails keep their form for a very long time.

Inspect all your running and standing rigging carefully for sharp edges, splints, protruding ends of wire and the like because laminated cloth is especially sensitive against touching them. Those parts of the cloth that can chafe at spreaders or shrouds should be protected on both sides by sticking self-adhesive cloth to them. The same goes for the foot of the sail if there is the possibility of chafing at the rails.



Note:

- Please remember: Damage to the cloth is mainly caused if it is incorrectly treated or handled. Especially if you let it shake, expose it to UV rays constantly or store it improperly.
- If there are any questions on the cloths do not hesitate to contact the manufacturer or your sail maker.
- Never remove track cars with ball bearings from the tracks carelessly. Always use sheet tracks with end stops.

Cleaning

Please clean your yacht immediately after you have taken it out of the water. High pressure cleaning devices will remove any growth. This is followed by an up keeping of the surface of the yacht. All paint manufacturers provide detailed instructions for their coating systems.

For ships sailing in salt water: rests of salt absorbs water and can cause a faster corrosion. Where- and whenever it is possible you should rinse the yacht and parts of it with fresh water.

Care and maintenance of teak decks

Untreated teak weathers to an natural silver-grey colour, with no detriment to the timber's strength or other mechanical/physical properties. Because of teak's inherent durability and weather-resistant properties, the use of protective paints or coatings is neither necessary nor advisable.

Practical tips on care and maintenance:

Protective wood care oils – penetrate deep into the timber, and under the influence of heat and moisture can adversely affect the adhesion of the caulking material to the sides of the joint. As a result, the seal between the caulking material and the sides of the joint may break down, allowing water to enter.

Paints and lacquers are decorative coatings which, when applied to a teak deck, dry to form a continuous film over the caulking material as well. Some paints will not dry properly where they come into contact with the caulking material, leaving the surface tacky. In time most paints will flake away along the line of the joint. This spoils the appearance of the teak deck and causes cracks to open up along the joints.

Teak cleaners should be used only if they contain no other active ingredients apart from normal soap. Additives such as phosphoric or oxalic acid, which are often incorporated as brighteners, are corrosive substances which attack both the caulking material and the timber, causing them to age rapidly.

We therefore recommend that teak decks be swabbed down with a mop and clean fresh water, to which a small quantity of normal soap may be added if desired. Heavy soiling may be removed by scrubbing with a hard sponge. The use of a power washer is not recommended. The *high-pressure water jet* will remove areas of sapwood and break the seal between the caulking material and the sides of the joint.

In extended periods of hot, dry weather teak decks should be watered at regular intervals to prevent the timber from drying out completely. Excessive loss of moisture will cause the timber to shrink, placing the joints under stress. Under unfavourable conditions this can lead to premature ageing or failure of the joint seal.

Stainless steel

The corrosion resistance of all fittings is based on their ability to constitute a thin skin together with the air oxidant, which makes a positive electrical potential. Specialists call it a CR-passive (CR is standing for chrome). But chrome is in the galvanic contact series negative and a bit less valuable than iron. If the

thin protection skin is damaged the stainless CR will be active and less good than pure chrome. The corrosion can start.

Who is not disappointed about little brown spots on the fittings? They are caused by flying rust or particles of iron, which are in the air and in all harbours placed near big towns. As soon as the flying rust settles onto the protective coat of the stainless steel, it destroys the CR-passivity aggressively and fast.

Stainless steel only stays good looking for a long time, if there's taken good care of it.

Take it to your habit, if you are washing your boat with clear water, clean also the rail stanchions, pulpits and push pits and all stainless fittings thoroughly too. Clear water will wash away the salt, rust and flying rust, the protective coat will be "ventilated" and its function is guaranteed again.

If you have already brown spots, you can use most of all available metal cleanings to take care of the stainless steel fittings or you take normal polish like you use it for the hull.

Of course – all the best care can not help, if in the first place the fittings are not made out of the right material or the stainless steel has not been treated correct. Before you will buy the fitting, ask for example if the fitting has been polished electrical.

4.2 Coatings

You may contact your marina or the yard if you have any questions concerning the coatings. Preferably you should rely on one system of one manufacturer that goes on well together.

4.3 Wearing- and spare parts

As an experienced skipper you will not have difficulties in getting original spare parts. If you need any help, please contact the yard.

If you need any spare parts but cannot get the original ones you have to pay attention to the stability values to keep the yacht at the high technical standard it used to have at the time of delivery.

4.4 Repair work

Repairs at the hull (polyester full laminate and polyester sandwich laminate) can be implemented by a reliable workshop considering the general rules for the processing of polyester resin. The interior construction was designed in such a way that a non-destructive elimination of defects can be realised. In regard to the technical equipment you may contact a reliable workshop or your dealer, too.

4.5 Winter storage

We have already given some well-directed advice on winter storage in different paragraphs of this manual. Generally speaking all firms offering winter storage should meet the latest technological standard as far as environmental conditions, storage blocks, fire protection and accessibility of your yacht is concerned. Moreover there should be fixed rules for work, done by the owner himself, to prevent any interference with other sportsmen.

If possible the following objects should be taken from board and stored in a dry and frost-free place:

- Ship's papers and other relevant documents
- Charts, books and instruments
- Mattresses, upholstery, blankets and sleeping bags
- Sails and lines/ropes
- Foodstuffs
- Gas cylinders
- Safety equipment
- Life raft and rubber dinghy
- Batteries

Advice:

Before wintering you should pay special attention to the following parts and protect them correspondingly:

- Rinse and clean the transmitters of the speedometer and echo sounder.
- Maintain the electrical systems and clean them with suitable materials.
- Water pipes can be successfully cleaned with soft acids, e.g. white vinegar.
- Water valves should be taken to pieces and greased.
- The toilet and corresponding pipes are cleaned with fresh water.
- The rudder should be fixed that no movements are possible (e.g. by fixing the tiller or wheel).

Engine:

- Fill the fuel tank completely
- Exchange the propeller's sacrificial anode (if necessary).
- Empty all cooling-water of the engine and follow the instructions of the manufacturer.
- Slacken all belts (lighting engine and other engine driven devices).

Winter storage

- Observe all notes in the engine manual.
- Store the fully charged batteries at a ventilated frost-free place.
- Grease the steering wire and –components
- Remove all water out of the ship and protect it against rainwater entering it.
- Replace all components which seem not to be reliable any longer.

Mast and rigging

It may not always be possible, but it is recommendable:

- Unship the mast,
- Refit all standing and running rigging,
- Inspect the cables and other wires,
- Inspect bolts, spanners and other tie points for possible fatigue of material or cracks,
- Rinse all aluminium parts with fresh water
- Rinse all lines/ropes with fresh water and store them in a dry place,
- Rinse and grease all guide rollers of the mast and the boom.

5. Final remarks and notes

This manual is in conformity with the directives of the harmonised European Norm EN 10240. Much of it might go without saying for you. Nevertheless we hope, that dealing with the different chapters of this manual will help you to understand the technical systems and the ideas behind them. As already mentioned in the introduction, the purpose of this manual is to contribute to an unspoilt use of the yacht.

Among the things that are not dealt with is e.g. the personal safety equipment. This solely belongs to the responsibilities of the skipper. It goes without saying that there have to be means of rescue for all persons on board. But this also includes the procurement and maintenance of a life raft, of signalling means, a first-aid- as well as a tool-kit.

Since the European Recreational Craft Directive pays special attention to fire protection it shall also be mentioned, that fire extinguishers have to be maintained in regular intervals and that it belongs to the duties of a skipper to introduce his crew into their operation.

Those being prepared for an emergency are normally never involved. But just in case: the yacht is properly equipped for those situations with suitable means.

We are constantly working on further developments of our sailing yachts. We hope you will understand that we have to reserve the right to carry out changes as far as form, equipment and technology is concerned. For these reasons you cannot lay claim to a complete correspondence of your yacht with the information, figures and descriptions in this manual.

If your yacht should be equipped with any details not being referred to in this manual or in the owner's file, your party to the contract will inform you about the correct operation and maintenance.

Since all yachts, manufactured by BAVARIA Yachtbau GmbH, are exclusively sold by official dealers there is no contractual relationship between the yard and the customer/owner.

Thus BAVARIA Yachtbau GmbH is not familiar with details of the contract between the dealer and the customer. That's why it is not urgently necessary that your party to the contract takes over the full extent of our warranty conditions.

So, if you have to make a claim it is unavoidable to contact your party to the contract.