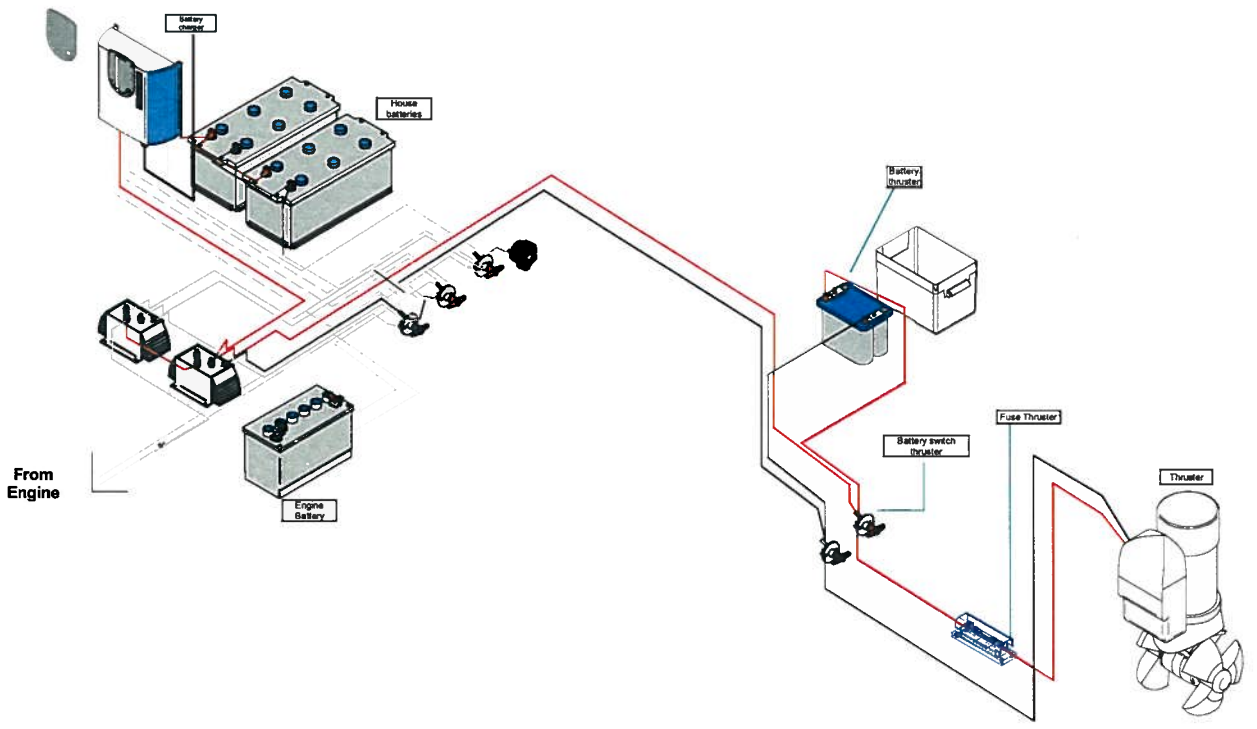
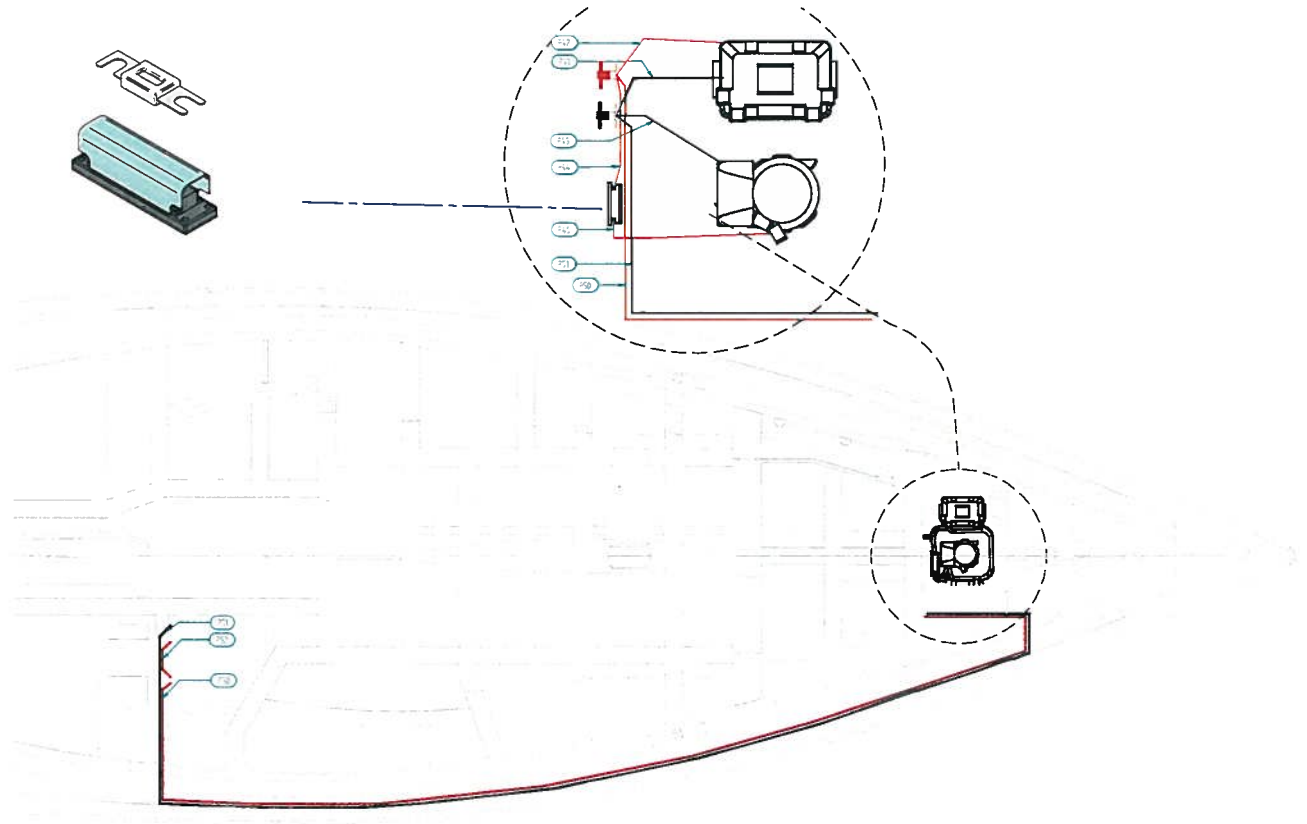
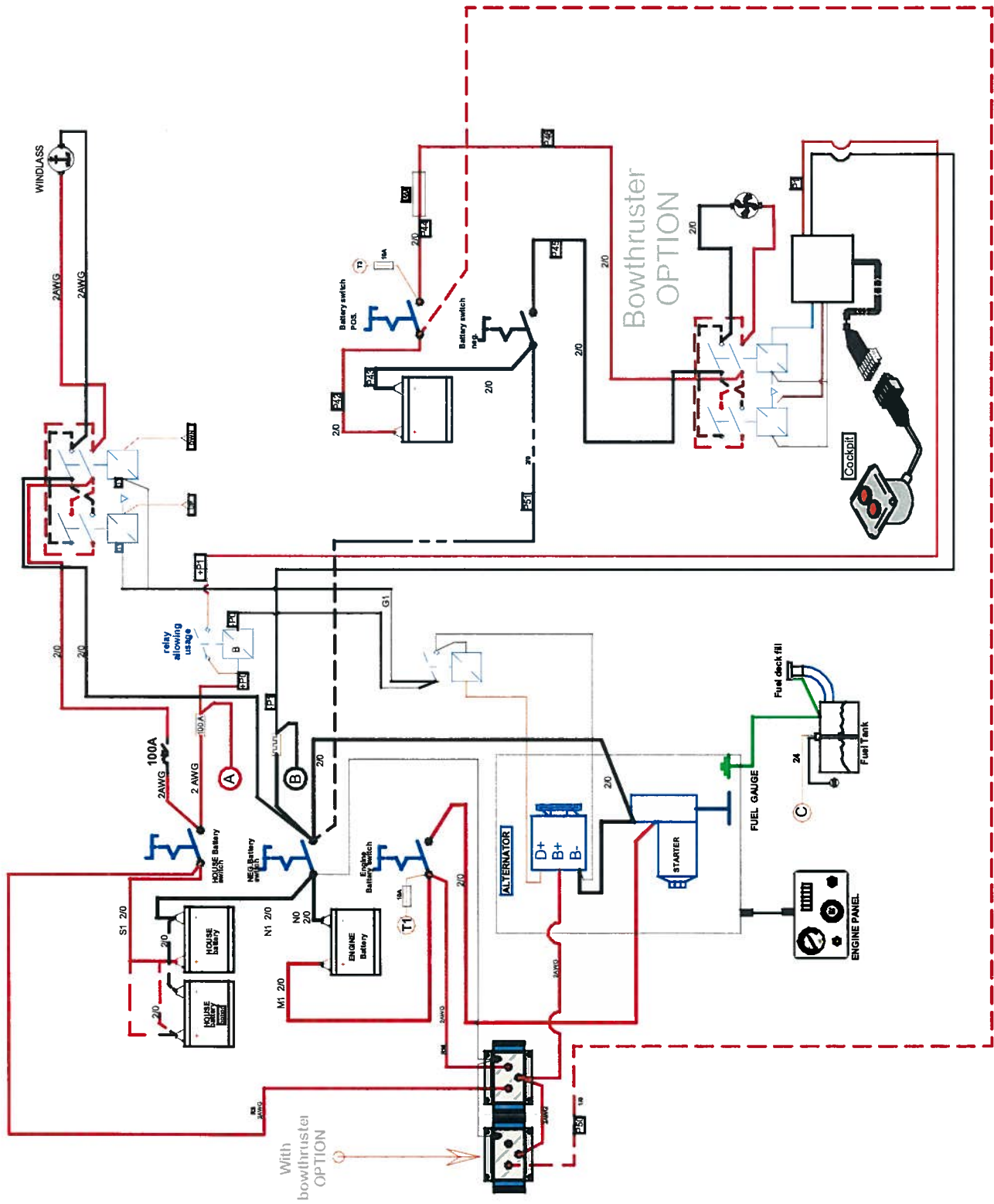
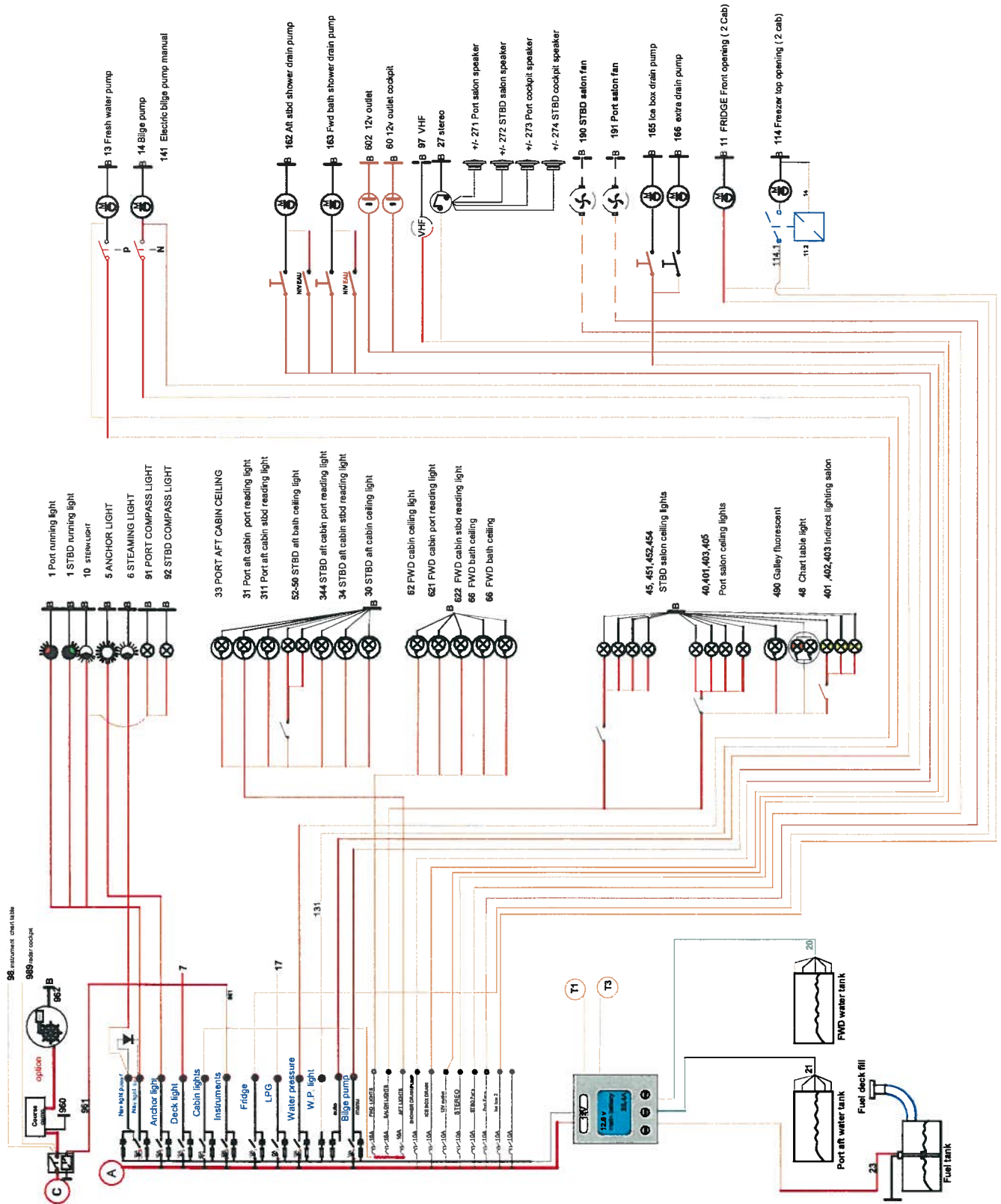


Bow thruster layout (option)

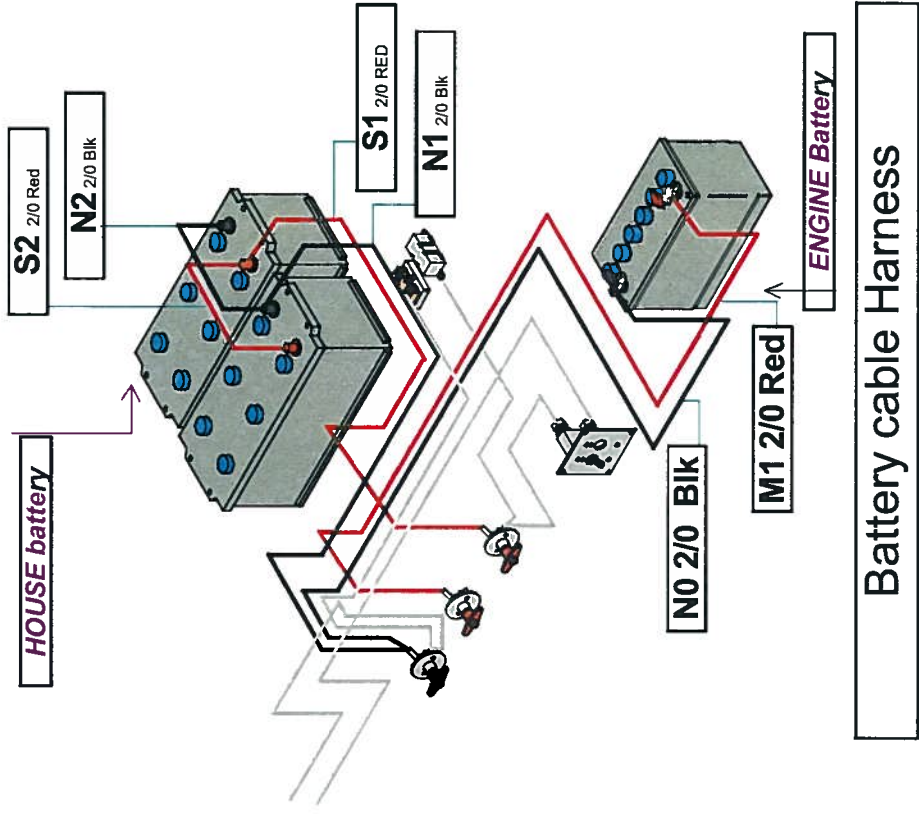


XIII) ELECTRICAL SYSTEMS

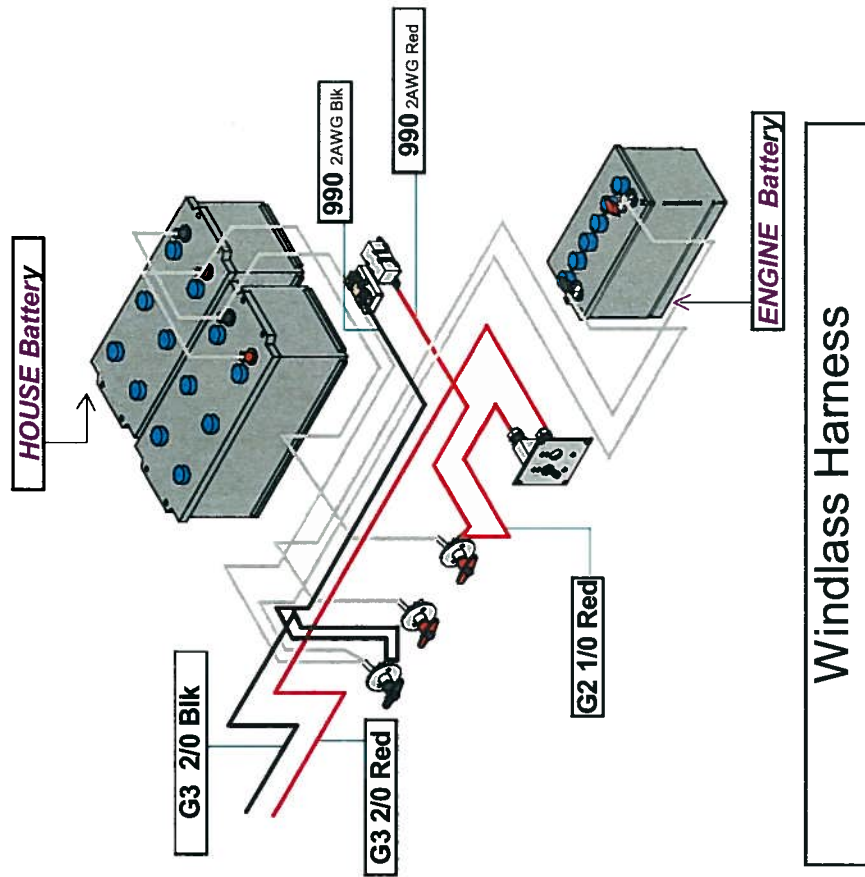




12V BATTERY CABLE HARNESS



Battery cable Harness



Windlass Harness

ENGLISH

Multifonction Display

Batteries, water and fuel levels





1. FIRST USE


Your new boat has just been delivered. Several of the alarms may be sounding if the tank levels are too low. Please fill the tanks and/or turn off the alarms. The alarms will need to be turned off each time you switch on the power, until the tanks are filled. (See Alarms sec).

2. HANDLING

- VOLTS**


 - Gives direct access to information concerning MAIN, ENGINE, AUXILIARY batteries.
 - Press and hold for more than **2 sec** to turn off a battery alarm.
 - Press and hold for more than **2 sec** to access the **SETTINGS** menu.
- WATER**


 - Gives direct access to information concerning WATER tank level 1 to 4.
 - Press and hold for more than **2 sec** to turn off a low level alarm.
 - Press and hold for more than **2 sec** to access the **SETTINGS** menu.
- FUEL**


 - Gives direct access to information concerning FUEL tank level 1 to 2.
 - Press and hold for more than **2 sec** to turn off a low level alarm.
 - Press and hold for more than **2 sec** to access the **SETTINGS** menu.

3. SETTINGS



BATTERY ALARMS : Switch ON or OFF BATTERY alarms.
By default, this one is **ON** at power up.
Press briefly the **VOLT** key to toggle the battery alarms **ON** to **OFF**.

CONTRAST : Press briefly the **WATER** key to cycle up the value.

BRIGHTNESS : Press briefly the **FUEL** key to cycle up the value.

After **5 sec** of inactivity, the display returns automatically to the **DEFAULT** display.

4. LANGUAGES

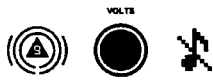


Press and hold for more than **2 sec** both the **VOLT** and **FUEL** keys to access the language menu.
Press briefly on any of the three keys to toggle between French and English.

After **5 sec** of inactivity, the display returns automatically to the **DEFAULT** display.

Batteries & Levels Display User Manual Siemens VDO	Version	Updated on	Revision Index : 000 Editor: Hervé JOUET Page - 2 / 2 -
	15/05/2006	15/05/2006	

5. ALARMS



BATTERY ALARMS : Low alarm at **11.50 V** (main battery) and **12.00 V** (engine and auxiliary batteries) are indicated by a flashing icon and an audible signal (with a 1 minute timeout). High alarm at **14.75 V** (3 batteries) is indicated by a flashing icon and an audible signal (immediate). Press and hold the **VOLT** key for at least 2 sec. to turn off the alarm. The icon stops flashing, the buzzer stops and the **crossed-out note** is displayed. The alarm will turn off automatically when the voltage rises above **13.00 V** or falls under **14.50 V**.



WATER LEVELS ALARMS : When the level on the 4 tanks is $\leq 25\%$ of capacity, the water level alarm is indicated by an icon (no audible alarm). Press and hold the **WATER** key for at least **2 sec.** to turn off the alarm. The icon stops flashing.



FUEL LEVELS ALARMS : ? When the level on the 2 tanks is $\leq 15\%$ of capacity, the fuel level alarm is indicated by an icon (no audible alarm). Press and hold the **FUEL** key for at least **2 sec.** to turn off the alarm. The icon stops flashing.

A **figure (1-9)** is displayed in this icon which indicates the number of alarms that are active. If a link is broken on an input while the alarm is active, the display disappears as does the visual and audible alarm. The page containing the alarm information is displayed with **PRIORITY** replacing the **DEFAULT** display. If there is more than one alarm, the priority pages are displayed in sequence at **5 sec.** intervals.

6. DOCUMENTATION

One more complete leaflet is available on Beneteau Website usable by your dealer.

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SIEMENS VDO

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The 12V power from your batteries is distributed throughout your boat via a distribution panel. This panel separates the current into separate circuits. Each circuit is protected by an individual breaker switch which allows you to turn the individual circuits on or off as needed at the panel. Each breaker switch has an individual amperage rating which it is designed to trip at in case it is overloaded.

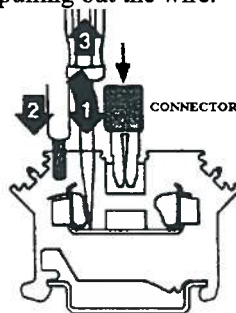
Terminal Block

The panel is wired to the boat thru a wago block strip. The boat's wiring harness and the panel are connected together at the wiring block strip using a series of plugs from each that snap onto opposite sides of the wiring block strip. Each of the boats positive 12V circuits connect to it's circuit breaker in the panel this way, i.e.: Wire #7 "Deck Light' connects across the wiring block to circuit breaker #7 on the panel. The negative side of the circuits lead to a common ground.

Each strip on the wago wiring block is an individual block mounted side by side on a frame to form the wiring block strip. These individual blocks can be connected to the blocks on either side of it to create a larger circuit as in the saloon lights. Wires are inserted into the block by:

1. Inserting a small screwdriver into the inside hole and pressing down.
2. Insert the wire.
3. Remove the screwdriver

Remove wires by inserting the screwdriver and pulling out the wire.



Batteries

The amount of charge the battery is receiving can be checked on the voltmeter, which is graduated in volts. This should be done when the battery is cold (has not been recharged or used for several hours beforehand). A reading of less than 11.5 V means that recharging is necessary.

WARNING! NEVER OPERATE ISOLATING SWITCHES WHILE THE ENGINE IS RUNNING - DOING SO COULD DAMAGE THE ALTERNATOR DIODES AND REGULATOR BEYOND REPAIR.

12V Charging System

The batteries must be recharged by one of the following systems:

Alternator

A belt drive alternator is mounted to the engine which produces 12V as needed by the batteries when the engine is running. The output of the alternator is wired to the battery switches.

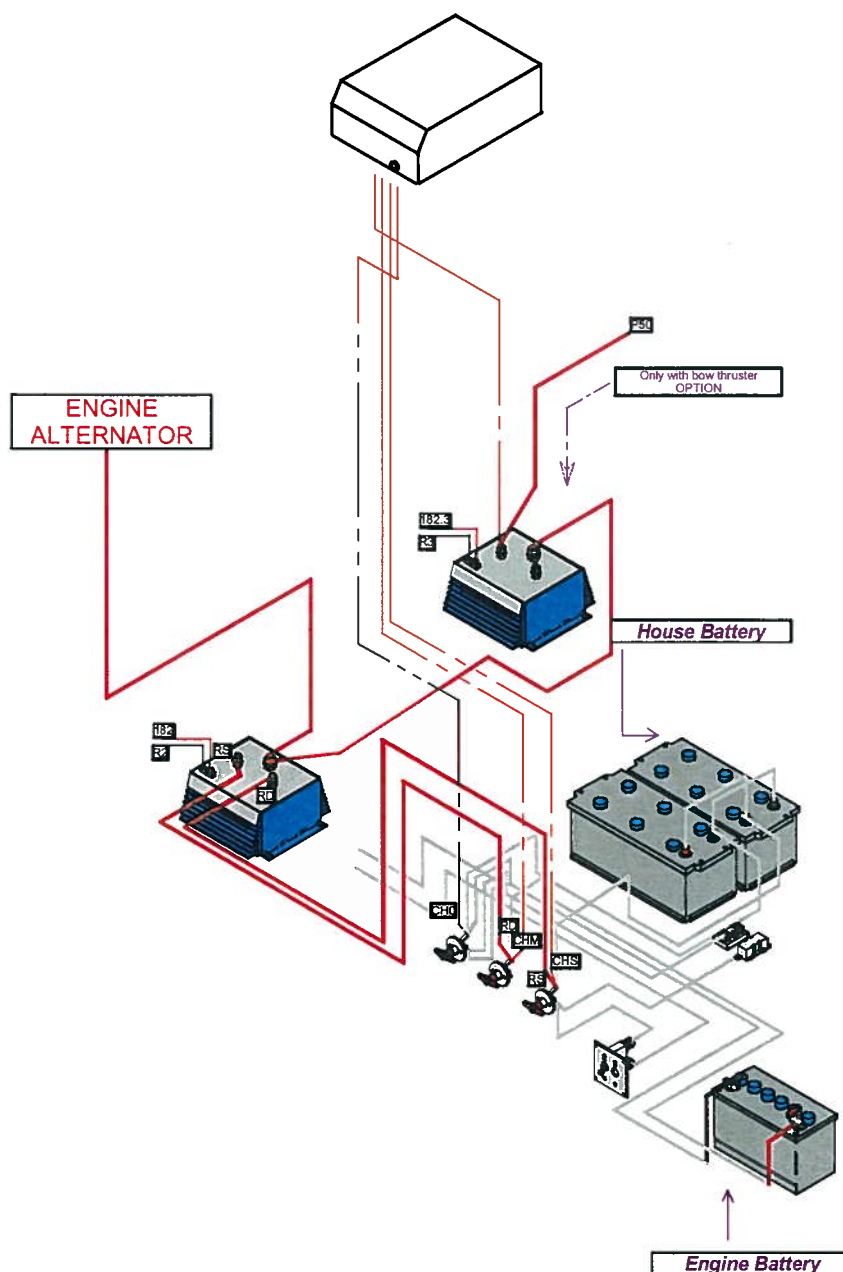
Battery Charger

A marine battery charger is wired into the 110V shore power system. This charger converts the AC dock power to 12V DC and feeds it to the batteries.

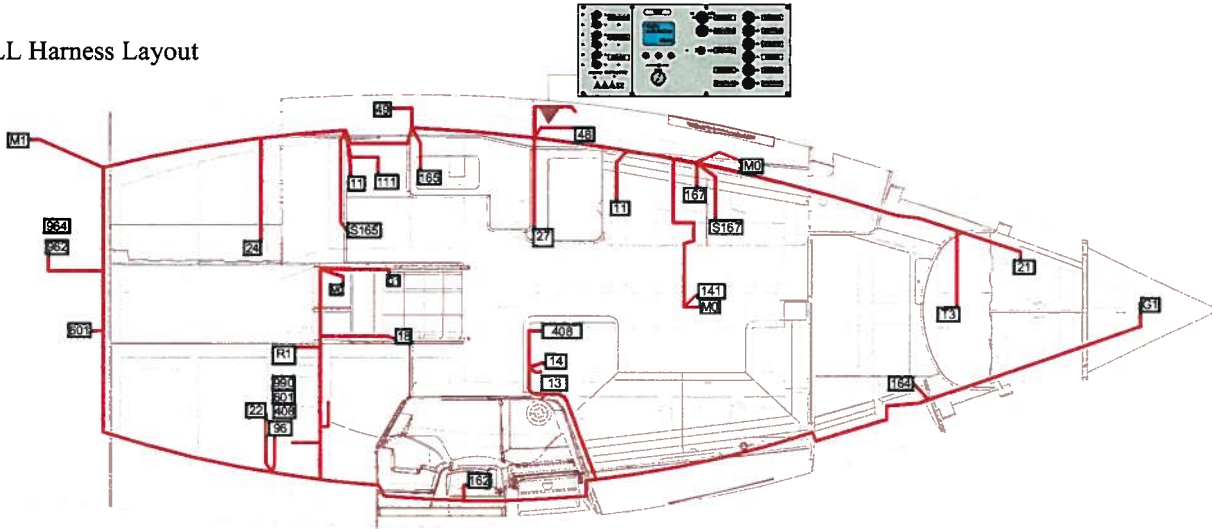
WARNING! DO NOT OPERATE THE CHARGER WHEN THE ENGINE IS RUNNING.

The battery charger is completely automatic; refer to the charger's manual for complete details. To charge the batteries using the charger: plug in the shore power cord and turn the charger breaker on at the 110V shore power panel.

CHARGING SYSTEM



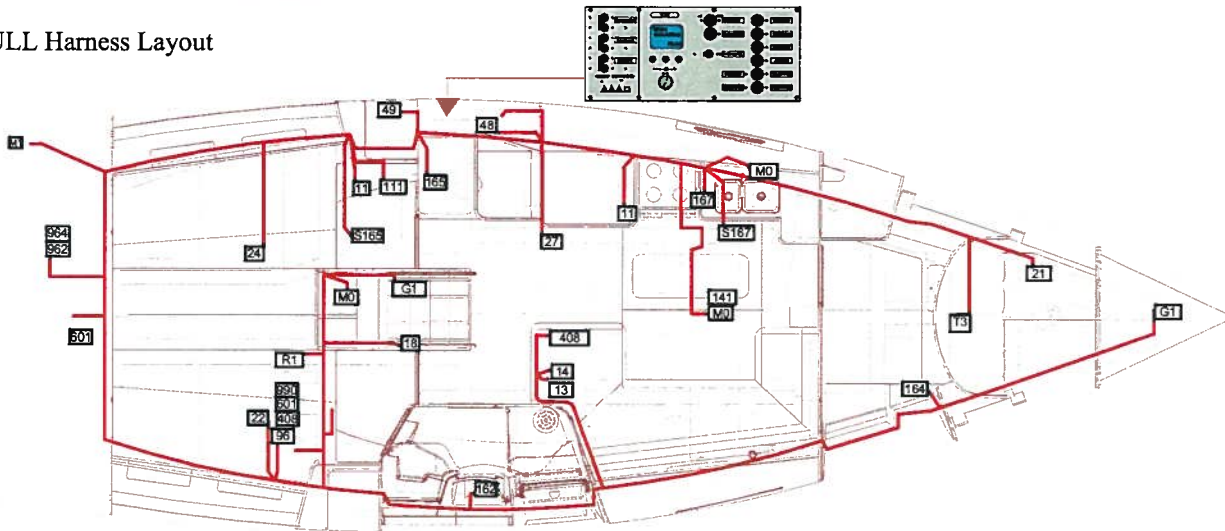
12v HULL Harness Layout



Wire #	AWG	Color	TYPE CABLE	Note	Description
279	16x1	R	105° Tin		Power to radio antenna
270	16x1	R	105° Tin		Power to radio memory
27	16x1	R	105° Tin	Pos. block WAGO	Power to radio
27	16x1	Bk	105° Tin	NEG. block WAGO	Power to radio
271	16x2	R/Bk	105° Tin	connector S	Port salon speaker
272	16x2	R/Bk	105° Tin	connector S	Stbd salon speaker
273	16x2	R/Bk	105° Tin	connector S	Port cockpit speaker
274	16x2	R/Bk	105° Tin	connector S	Stbd cockpit speaker
190	14x1	R	105° Tin	connector S/Wage +	Stbd salon fan
191	14x1	R	105° Tin	connector S/Wage +	Port salon fan
490	14x1	R	105° Tin	connector S/Wage +	Galley fluorescent
401	14x1	R	105° Tin	connector S	Power to indirect light
1	14x1	R	105° Tin	connector R/B	Bow light
4	14x1	R	105° Tin	connector R/B	Tricolor mast head
5	14x1	R	105° Tin	connector R/B	Anchor light
6	14x1	R	105° Tin	connector R/B	Steaming light
7	14x1	R	105° Tin	connector R/B	Deck light
10	14x1	R	105° Tin	connector R/B	Stem light
621	16x1	R	105° Tin	connector R/Wage +	Fwd cab port reading light
66	16x1	R	105° Tin	connector R/Wage +	Fwd bath ceiling light
33	16x1	R	105° Tin	connector R/Wage +	Port aft cabin ceiling light
344	16x1	R	105° Tin	connector R/Wage +	Stbd aft cabin port reading light
S50	16x1	R	105° Tin	connector R/Wage +	Power to switch Stbd aft bath
S45	14x1	R	105° Tin	connector R/Wage +	Power to switch Stbd salon ceiling lights
S40	14x1	R	105° Tin	connector R/Wage +	Power to Port salon ceiling lights
60	14x1	R	105° Tin	connector R/Wage +	12V outlet cockpit
13	8x1	Bk	105° Tin	NEG. block WAGO	Fresh water pump
13	8x1	R	105° Tin	at connector A	Fresh water pump
131	16x1	R	105° Tin	at connector B	Fresh water pump light
17	16x1	R	105° Tin	at connector A	Propane solenoid
17	16x1	Bk	105° Tin	NEG. block WAGO	Propane solenoid
141	16x1	R	105° Tin	at connector A	Power to Sump bilge pump
142	14x1	R	105° Tin	By relay	Bilge pump #2
142	14x1	Bk	105° Tin	NEG. block WAGO	Bilge pump #2
142.1	14x1	R	105° Tin	Pos. block WAGO	Bilge pump #2
142.2	16x1	R	105° Tin	at connector A	Power to Bilge pump #2 relay
142.2	16x1	Bk	105° Tin	NEG. block WAGO	Power to Bilge pump #2 relay
14	14x1	Bm/Bk	105° Tin	at connector A	Sump bilge pump manual/light
14	14x1	Bk	105° Tin	NEG. block WAGO	Power to Sump bilge pump
11	8x1	R	105° Tin	at connector A	Fridge 2 Cab
11	8x1	Bk	105° Tin	NEG. block WAGO	Fridge 2 Cab
11.2	16x1	R	105° Tin	at connector A	Relay fridge 2 Cab
114.1	8x1	R	105° Tin	Pos. block WAGO	Fridge #2 2cab
114.2	16x1	Bk	105° Tin	NEG. block WAGO	Relay fridge #2 2cab
114	8x1	R	105° Tin	By relay	Fridge #2 2cab
114	8x1	Bk	105° Tin	NEG. block WAGO	Fridge #2 2cab
112	8x1	R	105° Tin	By relay	Fridge 3cab
112	8x1	Bk	105° Tin	NEG. block WAGO	Fridge 3cab
165	14x1	R	105° Tin	Pos. block WAGO	Fridge drain pump 2 cab
165	14x1	Bk	105° Tin	NEG. block WAGO	Fridge drain pump 2 cab
167	14x1	R	105° Tin	Pos. block WAGO	Fridge drain pump 3 cab
167	14x1	Bk	105° Tin	NEG. block WAGO	Fridge drain pump 3 cab
21	16x1	purple	105° Tin	at connector C	FWD water tank gauge
21	16x1	Bk	105° Tin	NEG. block WAGO	FWD water tank gauge
200	16x1	R	105° Tin	at connector C	Power to Stbd aft water tank
201	16x1	R	105° Tin	Picked from 200	Power to FWD water tank
20	16x1	purple	105° Tin	at connector C	Stbd aft water tank gauge
20	16x1	Bk	105° Tin	NEG. block WAGO	Stbd aft water tank gauge
23	16x1	Bk	105° Tin	NEG. block WAGO	Port fuel tank

Wire #	AWG	Color	TYPE CABLE	Note	Description
23	16x1	Red	105° Tin	at connector C	Port fuel tank
M1	8x1	Gm/Yellow	105° Tin		Grounding fuel tank to engine
M2	8x1	Gm/Yellow	105° Tin		Grounding deck fill to tank
M0	6x1	Gm/Yellow	105° Tin		Grounding chainplate to keel
T1	16x1	R	105° Tin	at connector C	Engine battery test
T3	16x1	R	105° Tin	at connector C	Bowthruster battery test
927	14x2	R/Bk	105° Tin	at connector C	House battery shunt
991	6x1	R	105° Tin	Pos. block WAGO	Power + to DC panel
991	14x1	Bk	105° Tin	NEG. block WAGO / CON B	Power - to DC panel
164	14x1	R	105° Tin	Pos. block WAGO	Aft bath shower drain
164	14x1	Bk	105° Tin	NEG. block WAGO	Aft bath shower drain
162	14x1	R	105° Tin	Pos. block WAGO	FWD bath shower drain
162	14x1	Bk	105° Tin	NEG. block WAGO	FWD bath shower drain
18	14x1	R	105° Tin	By relay	Engine room blower
18	14x1	Bk	105° Tin	Picked from moins 98	Engine room blower
180	14x1	R	105° Tin	By relay & fuse	Engine room blower
181	16x2	R	105° Tin	Picked from + 180	Power to blower relay
181	16x2	Bk	105° Tin	Picked from - G1	Power to blower relay
182.2	16x1	R	105° Tin	Picked from + 18	Power to isolator #1
182.3	16x1	R	105° Tin	Picked from + 182.2	Power to isolator #2
R2	16x1	Bk	105° Tin	Picked from -99	Dc neg to isolator #1
R3	16x1	Bk	105° Tin	Picked from R2	Dc neg to isolator #2
CH0	4x1	Bk	105° Tin		Dc neg output bat. Charger
CHM	4x1	R	105° Tin		Dc pos bat charger to engine bat.
CHP	4x1	R	105° Tin		Dc pos charger to bow thruster bat.
CHS	4x1	R	105° Tin		Dc pos charger to house bat.
GM	14x1	Bk	105° Tin		Dc neg to windlass relay
RM	2x1	R	105° Tin		Isolator to engine bat
RM	2x1	R	105° Tin		Isolator to house bat.
P0	14x1	R	105° Tin	Picked from + 99 & by fuse	Bow thruster
P0	14x1	Bk	105° Tin	Picked from -G1	Bow thruster
P1	14x1	Bk	105° Tin	Picked from -99	Bow thruster
96	8x1	Bk	105° Tin	soude a -99	Power neg to autopilot
96	8x1	R	105° Tin	By relay	Power pos to autopilot
98	8x1	R	105° Tin	Picked from +96	Nav instruments chart table
98	8x1	Bk	105° Tin	Picked from moins 99	Nav instruments chart table
960	8x1	R	105° Tin	soldered to +99	Power pos to autopilot
961	16x1	R	105° Tin	at connector B	Relay autopilot
961	16x1	Bk	105° Tin	soldered in -99	Relay autopilot
962	8x2	R / Bk	105° Tin		Power to autopilot pump
964	16x2	R / Bk	105° Tin		Clutch autopilot
989	8x1	R	105° Tin	Picked from +96	Nav instruments cockpit
989	8x1	Bk	105° Tin	Picked from -99	Nav instruments cockpit
989	4x2	R / Bk	105° Tin		Power to Dc panel
400	6x1	R	105° Tin	Pos. block WAGO	Main power to cabin lights
602	14x1	R	105° Tin	Pos. block WAGO	12v outlet panel
602	14x1	Bk	105° Tin	NEG. block WAGO	12v outlet panel
401	14x1	R	105° Tin	By connector S	Power to salon indirect light
401	14x1	Bk	105° Tin	NEG. block WAGO	Power to salon indirect light
402	14x2	R/Bk	105° Tin	Picked from 401	Power to Stbd salon indirect light
49	16x1	R	105° Tin	Pos. block WAGO	Power to chart table light
49	16x1	Bk	105° Tin	NEG. block WAGO	Power to éclairage TAC
97	16x1	R	105° Tin	Pos. block WAGO	VHF
97	16x1	Bk	105° Tin	NEG. block WAGO	VHF
49	16x1	R	105° Tin	Pos. block WAGO	Fluorescent galley 2cab
49	16x1	Bk	105° Tin	NEG. block WAGO	Fluorescent galley 2cab
504	16x1	R	105° Tin	Pos. block WAGO connect S	Stbd aft bath cabinet light

12v HULL Harness Layout

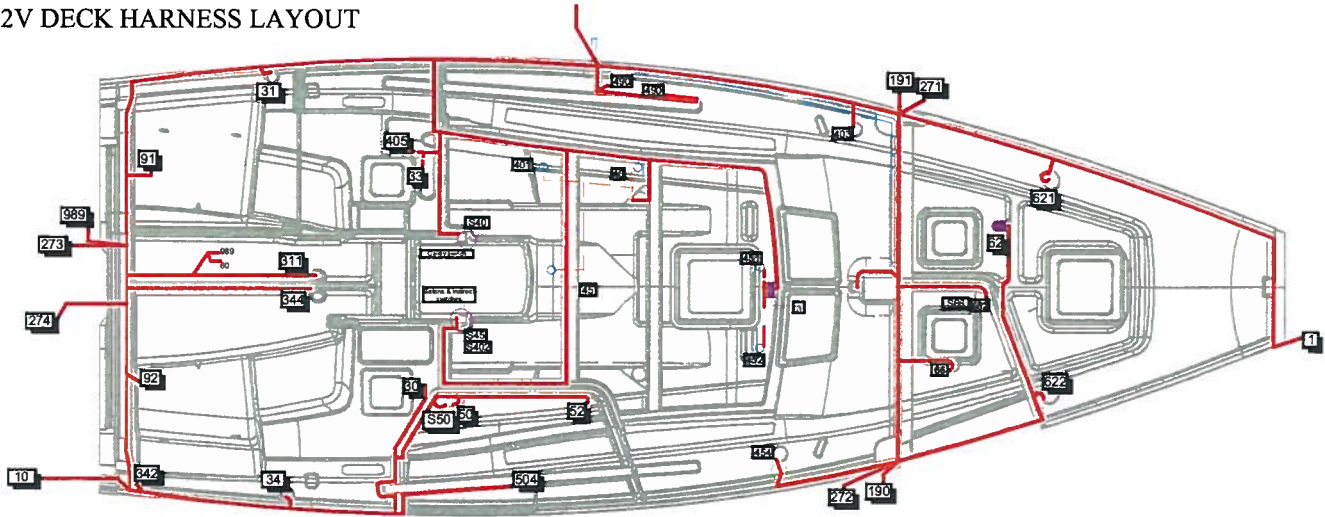


Wire #	AWG	Color	TYPE CABLE	Note	Description
279	16x1	R	105° Tin		Power to radio antenna
270	16x1	R	105° Tin		Power to radio memory
27	16x1	R	105° Tin	Pos. block WAGO	Power to radio
27	16x1	Bk	105° Tin	NEG block WAGO	Power to radio
271	16x2	R/Bk	105° Tin	connector S	Port salon speaker
272	16x2	R/Bk	105° Tin	connector S	Sibd salon speaker
273	16x2	R/Bk	105° Tin	connector S	Port cockpit speaker
274	16x2	R/Bk	105° Tin	connector S	Sibd cockpit speaker
190	14x1	R	105° Tin	connector S/ Wago +	Sibd salon fan
191	14x1	R	105° Tin	connector S/ Wago +	Port salon fan
490	14x1	R	105° Tin	connector S/ Wago +	Galley fluorescent
401	14x1	R	105° Tin	connector S	Power to indirect light
1	14x1	R	105° Tin	connector R/B	Bow light
4	14x1	R	105° Tin	connector R/B	Tricolor mast head
5	14x1	R	105° Tin	connector R/B	Anchor light
6	14x1	R	105° Tin	connector R/B	Steaming light
7	14x1	R	105° Tin	connector R/B	Deck light
10	14x1	R	105° Tin	connector R/B	Stem light
621	16x1	R	105° Tin	connector R/ Wago +	Fwd cab port reading light
66	16x1	R	105° Tin	connector R/ Wago +	Fwd bath ceiling light
33	16x1	R	105° Tin	connector R/ Wago +	Port aft cabin ceiling light
344	16x1	R	105° Tin	connector R/ Wago +	Sibd aft cabin port reading light
S50	16x1	R	105° Tin	connector R/ Wago +	Power to switch Sibd aft bath
S45	14x1	R	105° Tin	connector R/ Wago +	Power to switch Sibsalon ceiling lights
S40	14x1	R	105° Tin	connector R/ Wago +	Power to Port salon ceiling lights
60	14x1	R	105° Tin	connector R/ Wago +	12v outlet cockpit
13	8x1	Bk	105° Tin	NEG block WAGO	Fresh water pump
13	8x1	R	105° Tin	at connector A	Fresh water pump
131	16x1	R	105° Tin	at connector B	Fresh water pump light
17	16x1	R	105° Tin	at connector A	Propane solenoid
17	16x1	Bk	105° Tin	NEG block WAGO	Propane solenoid
141	16x1	R	105° Tin	at connector A	Power to Sump bilge pump
142	14x1	R	105° Tin	By relay	Bilge pump #2
142	14x1	Bk	105° Tin	NEG block WAGO	Bilge pump #2
142.1	14x1	R	105° Tin	Pos. block WAGO	Bilge pump #2
142.2	16x1	R	105° Tin	at connector A	Power to Bilge pump #2 relay
142.2	16x1	Bk	105° Tin	NEG block WAGO	Power to Bilge pump #2 relay
14	14x1	Bk/Bk	105° Tin	at connector A	Sump bilge pump manual/light
14	14x1	Bk	105° Tin	NEG block WAGO	Power to Sump bilge pump
11	8x1	R	105° Tin	at connector A	Fridge 2 Cab
11	8x1	Bk	105° Tin	NEG block WAGO	Fridge 2 Cab
11.2	16x1	R	105° Tin	at connector A	Relay fridge 2 Cab
114.1	8x1	R	105° Tin	Pos. block WAGO	Fridge #2 2cab
114.2	16x1	Bk	105° Tin	NEG block WAGO	Relay fridge #2 2cab
114	8x1	R	105° Tin	By relay	Fridge #2 2cab
114	8x1	Bk	105° Tin	NEG block WAGO	Fridge #2 2cab
112	8x1	R	105° Tin	By relay	Fridge 3cab
112	8x1	Bk	105° Tin	NEG block WAGO	Fridge 3cab
165	14x1	R	105° Tin	Pos. block WAGO	Fridge drain pump 2 cab
165	14x1	Bk	105° Tin	NEG block WAGO	Fridge drain pump 2 cab
167	14x1	R	105° Tin	Pos. block WAGO	Fridge drain pump 3 cab
167	14x1	Bk	105° Tin	NEG block WAGO	Fridge drain pump 3 cab
21	16x1	purple	105° Tin	at connector C	FWD water tank gauge
21	16x1	Bk	105° Tin	NEG block WAGO	FWD water tank gauge
200	16x1	R	105° Tin	at connector C	Power to Sibd aft water tank
201	16x1	R	105° Tin	Picked from 200	Power to FWD water tank
20	16x1	purple	105° Tin	at connector C	Sibd aft water tank gauge
20	16x1	Bk	105° Tin	NEG block WAGO	Sibd aft water tank gauge
23	16x1	Bk	105° Tin	NEG block WAGO	Port fuel tank

Wire #	AWG	Color	TYPE CABLE	Note	Description
23	16x1	Red	105° Tin	at connector C	Port fuel tank
M1	8x1	Gm/Yellow	105° Tin		Grounding fuel tank to engine
M2	8x1	Gm/Yellow	105° Tin		Grounding deck fill to tank
M0	8x1	Gm/Yellow	105° Tin		Grounding chainplate to keel
T1	16x1	R	105° Tin	at connector C	Engine battery test
T3	16x1	R	105° Tin	at connector C	Bowthruster battery test
927	14x2	R/Bk	105° Tin	at connector C	House battery shunt
991	8x1	R	105° Tin	Pos. block WAGO	Power + to DC panel
991	14x1	Bk	105° Tin	NEG block WAGO / CON B	Power - to DC panel
164	14x1	R	105° Tin	Pos. block WAGO	Aft bath shower drain
164	14x1	Bk	105° Tin	NEG block WAGO	Aft bath shower drain
162	14x1	R	105° Tin	Pos. block WAGO	FWD bath shower drain
162	14x1	Bk	105° Tin	NEG block WAGO	FWD bath shower drain
18	14x1	R	105° Tin	By relay	Engine room blower
18	14x1	Bk	105° Tin	Picked from mains 99	Engine room blower
180	14x1	R	105° Tin	By relay & fuse	Engine room blower
181	16x2	R	105° Tin	Picked from + 180	Power to blower relay
181	16x2	Bk	105° Tin	Picked from - G1	Power to blower relay
182.2	16x1	R	105° Tin	Picked from + 18	Power to isolator #1
182.3	16x1	R	105° Tin	Picked from + 182.2	Power to isolator #2
R2	16x1	Bk	105° Tin	Picked from -99	Dc neg to isolator #1
R3	16x1	Bk	105° Tin	Picked from R2	Dc neg to isolator #2
CH0	4x1	Bk	105° Tin		Dc neg output bat. Charger
CHM	4x1	R	105° Tin		Dc pos bat charger to engine bat.
CHP	4x1	R	105° Tin		Dc pos charger to bow thruster bat.
CHS	4x1	R	105° Tin		Dc pos charger to house bat.
G1	14x1	Bk	105° Tin		Dc neg to windlass relay
RM	2x1	R	105° Tin		Isolator to engine bat
RS	2x1	R	105° Tin		Isolator to house bat.
P0	14x1	R	105° Tin	Picked from + 99 & by fuse	Bow thruster
P0	14x1	Bk	105° Tin	Picked from -G1	Bow thruster
P1	14x1	Bk	105° Tin	Picked from -99	Bow thruster
96	8x1	Bk	105° Tin	soudé à -99	Power neg to autopilot
96	8x1	R	105° Tin	By relay	Power pos to autopilot
98	8x1	R	105° Tin	Picked from +96	Nav instruments chart table
98	8x1	Bk	105° Tin	Picked from mains 99	Nav instruments chart table
980	8x1	R	105° Tin	soldered to +99	Power pos to autopilot
961	16x1	R	105° Tin	at connector B	Relay autopilot
961	16x1	Bk	105° Tin	soldered to -99	Relay autopilot
962	8x2	R / Bk	105° Tin		Power to autopilot pump
964	16x2	R / Bk	105° Tin		Clutch autopilot
989	8x1	R	105° Tin	Picked from +96	Nav instruments cockpit
989	8x1	Bk	105° Tin	Picked from -99	Nav instruments cockpit
99	4x2	R / Bk	105° Tin		Power to Dc panel
400	8x1	R	105° Tin	Pos. block WAGO	Main power to cabin lights
602	14x1	R	105° Tin	Pos. block WAGO	12v outlet panel
602	14x1	Bk	105° Tin	NEG block WAGO	12v outlet panel
401	14x1	R	105° Tin	By connector S	Power to salon indirect light
401	14x1	Bk	105° Tin	NEG block WAGO	Power to salon indirect light
402	14x2	R/Bk	105° Tin	Picked from 401	Power to Sibd salon indirect light
48	16x1	R	105° Tin	Pos. block WAGO	Power to chart table light
48	16x1	Bk	105° Tin	NEG block WAGO	Power to éclairage TAC
97	16x1	R	105° Tin	Pos. block WAGO	VHF
97	16x1	Bk	105° Tin	NEG block WAGO	VHF
49	16x1	R	105° Tin	Pos. block WAGO	Fluorescent galley 2cab
49	16x1	Bk	105° Tin	NEG block WAGO	Fluorescent galley 2cab
504	16x1	R	105° Tin	Pos. block WAGO connect S	Sibd aft bath cabinet light

2 and 3 CABIN

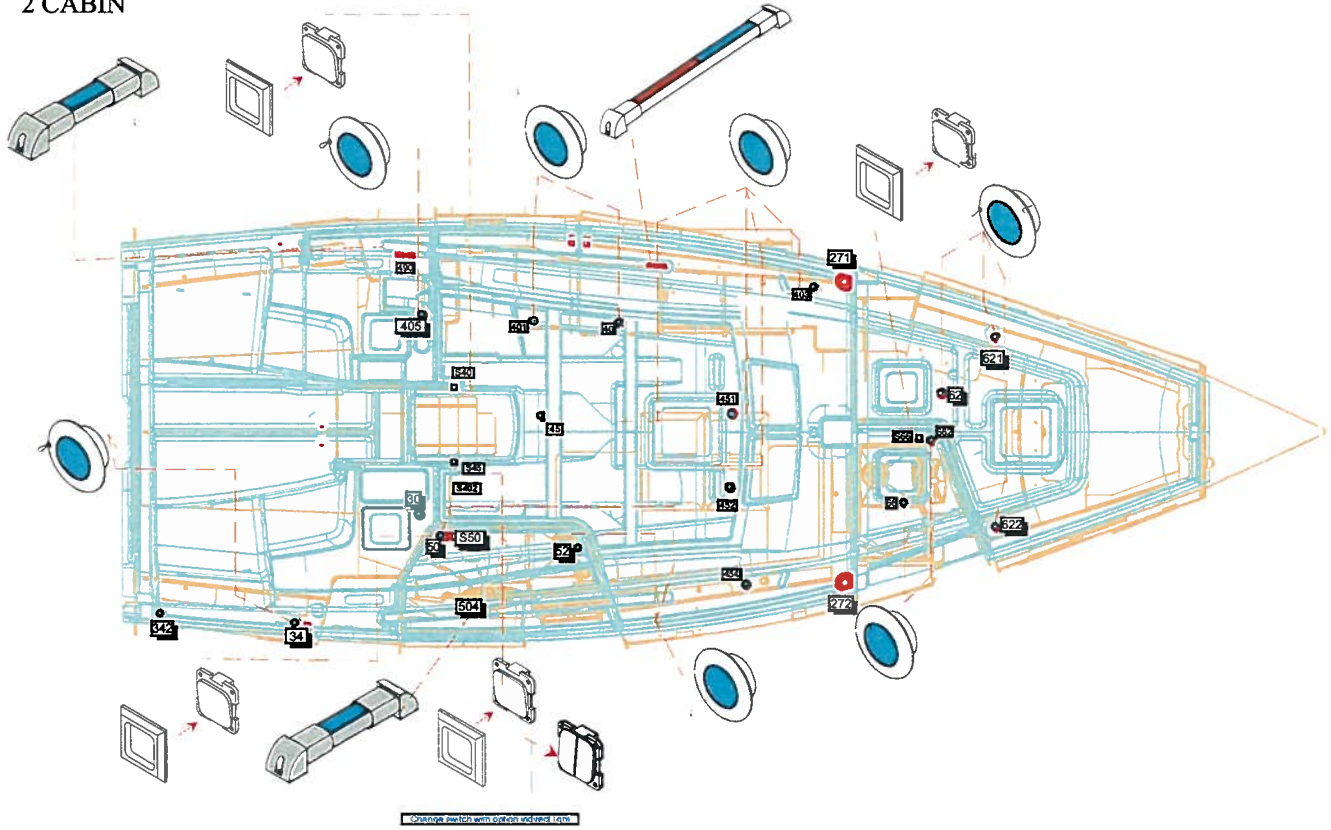
12V DECK HARNESS LAYOUT



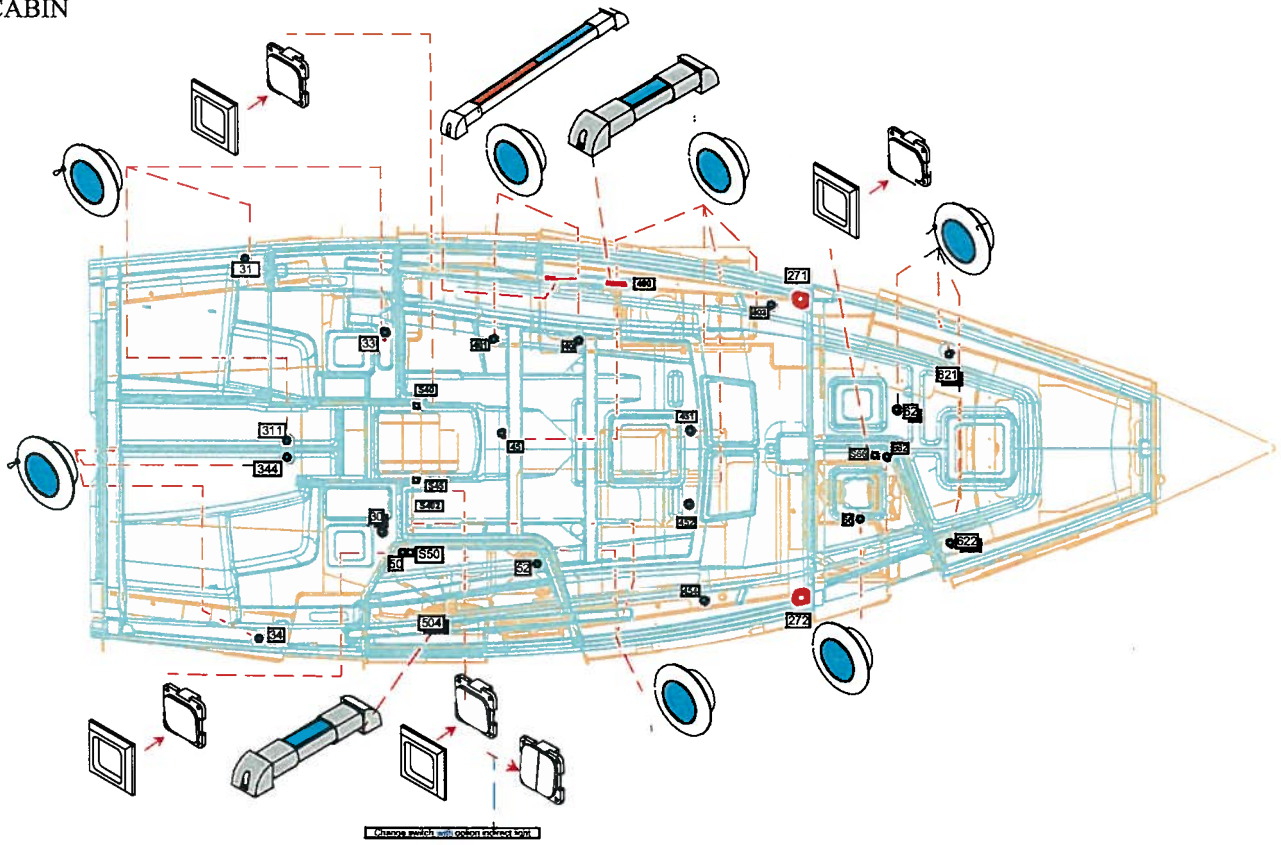
Wire #	AWG	Color	Wire type	Note	Description
1	14x1	R	105° TIN	to connector R	Bow light
1	14x1	Bk	105° TIN	Soldered to -99	Bow light
4	14x1	R	105° TIN	to connector R	Masthead light
5	14x1	R	105° TIN	to connector R	Steaming light
6	14x1	R	105° TIN	to connector R	Anchor light
7	14x1	R	105° TIN	to connector R	Deck light
8	14x2	Bk	105° TIN	Soldered to -99	Negative mast
10	14x1	R	105° TIN	to connector R	Stern light
10	14x1	Bk	105° TIN	Soldered to -99	Stern light
91	16x2	R/Bk	105° TIN	Picked from 92	Port compass
92	16x2	R/Bk	105° TIN	Picked from 10	Stbd compass
271	16x2	R/Bk	105° TIN	to connector S	Port salon speaker
272	16x2	R/Bk	105° TIN	to connector S	STBD salon speaker
273	16x2	R/Bk	105° TIN	to connector S	Port cockpit speaker
274	16x2	R/Bk	105° TIN	to connector S	STBD cockpit speaker
190	14x1	R	105° TIN	to connector S	STBD salon fan
190	14x1	Bk	105° TIN	Soldered to -99	STBD salon fan
191	14x1	R	105° TIN	to connector S	Port salon fan
191	14x1	Bk	105° TIN	Soldered to -99	Port salon fan
621	16x1	R	105° TIN	to connector R	FWD cab port reading light
621	16x1	Bk	105° TIN	Soldered to -99	FWD cab port reading light
622	16x2	R/Bk	105° TIN	Picked from 621	FWD cab STBD reading light
62	16x2	R/Bk	105° TIN	Picked from 622	FWD cab ceiling light
66	16x1	R	105° TIN	to connector R	FWD bath ceiling light
66	16x1	Bk	105° TIN	Soldered to -99	FWD bath ceiling light
662	16x2	R/Bk	105° TIN	picked from 66	FWD bath ceiling light
490	16x1	R	105° TIN	to connector S	Galley fluo
490	16x1	Bk	105° TIN	Soldered to -99	Galley fluo
33	16x1	R	105° TIN	to connector R	Port aft cabin ceiling light
33	16x1	Bk	105° TIN	Soldered to -99	Port aft cabin negative ceiling
31	16x2	R/Bk	105° TIN	Picked from 33	Port aft cabin port reading light
311	16x2	R/Bk	105° TIN	Picked from 31	Port aft cabin STBD reading light
344	16x1	R	105° TIN	to connector R	STBD aft cabin port reading light
344	16x1	Bk	105° TIN	Soldered to -99	STBD aft cabin neg. reading light
342	16x2	R/Bk	105° TIN	Picked from 344	STBD aft cab STBD reading light
34	16x2	R/Bk	105° TIN	Picked from 342	STBD aft cab STBD reading light
30	16x2	R/Bk	105° TIN	Picked from 34	STBD aft cabin ceiling light
150	16x1	R	105° TIN	to connector R	STBD aft bath power to switch
50	16x1	R	105° TIN		STBD aft bath power out of switch
50	16x1	Bk	105° TIN	Soldered to -99	STBD aft bath neg. ceiling
52	16x2	R/Bk	105° TIN	Picked from 50	STBD aft bath ceiling light
401	14x1	R	105° TIN	to connector S	Indirect light
i45	14x1	R	105° TIN	to connector R	Power to STBD salon ceiling switch
45	14x1	R	105° TIN		STBD salon ceiling
45	14x1	Bk	105° TIN	Soldered to -99	STBD salon ceiling
451	16x2	R/Bk	105° TIN	Picked from 45	STBD salon ceiling
452	16x2	R/Bk	105° TIN	Picked from 451	STBD salon ceiling
454	16x2	R/Bk	105° TIN	Picked from 452	STBD salon ceiling
i40	14x1	R	105° TIN	to connector R	Power to Port salon ceiling switch
40	14x1	R	105° TIN		Port salon ceiling
40	14x1	Bk	105° TIN	Soldered to -99	Port salon ceiling
401	16x2	R/Bk	105° TIN	Picked from 40	Port salon ceiling
405	16x2	R/Bk	105° TIN	Picked from 401	Port salon ceiling
403	16x2	R/Bk	105° TIN	Picked from 405	Port salon ceiling
989	8x2	R/Bk	105° TIN	loose	Power to radar in cockpit
60	14x1	R	105° TIN	to connector R	12V cockpit plug
60	14x1	Bk	105° TIN	Soldered to -99	12V cockpit plug
504	16x1	R	105° TIN	to connector S	STBD aft bath cabinet light
504	16x1	Bk	105° TIN	Soldered to -99	STBD aft bath neg. cabinet light

LIGHTS

2 CABIN



3 CABIN



110V-220V Electrical System

The shore power system consists of a marine power cord adapter plug mounted on the transom of the boat which is connected to an 110V panel that distributes the 110V AC current to the outlets and appliances on your boat. The shore power system is rated for a maximum of 30 AMPS; care must be taken to not overload the system.

WARNING! DO NOT WIRE OPTIONAL AIR CONDITIONERS TO THE SHORE POWER SYSTEM; INSTALL A SEPARATE SERVICE AND PANEL.

The 110V panel consists of breaker switches which protect and turn the individual circuits on and off. The charger, hot water heater and the 110V outlet circuit are on separate breakers.

Boats are fitted with a 110V/60Hz or a 220V/50Hz system. We advise you to follow these steps in order to avoid the risk of electric shock and fire.

Do not work on a live fitting.

Connect the boat / shore supply cable to the boat before you plug it into the shore supply socket with the breaker off. Turn the breaker on last.

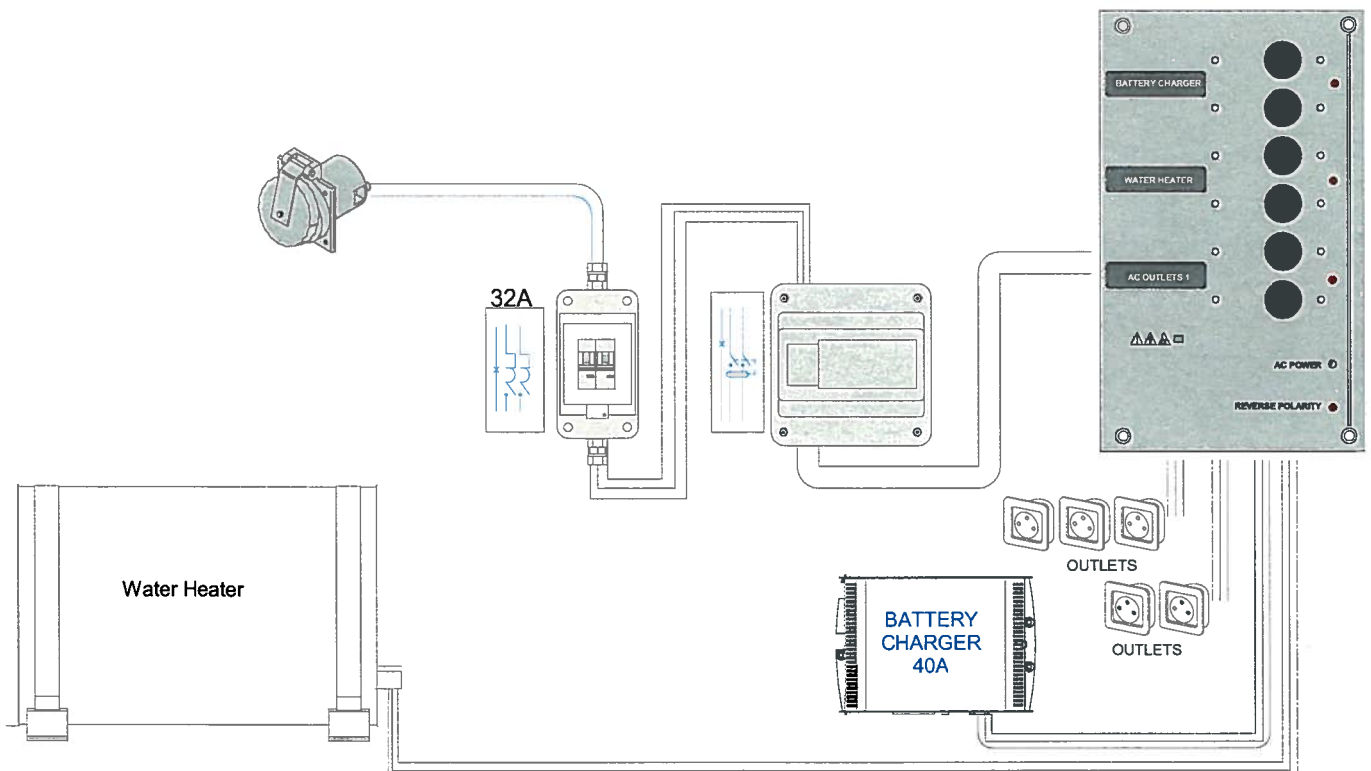
Do not immerse the boat / shore cable socket.

Turn off the shore supply switch on board before you plug in or unplug the boat / shore supply cable.

Do not tamper with the connections of the Boat / shore supply cable. Use only compatible connections.

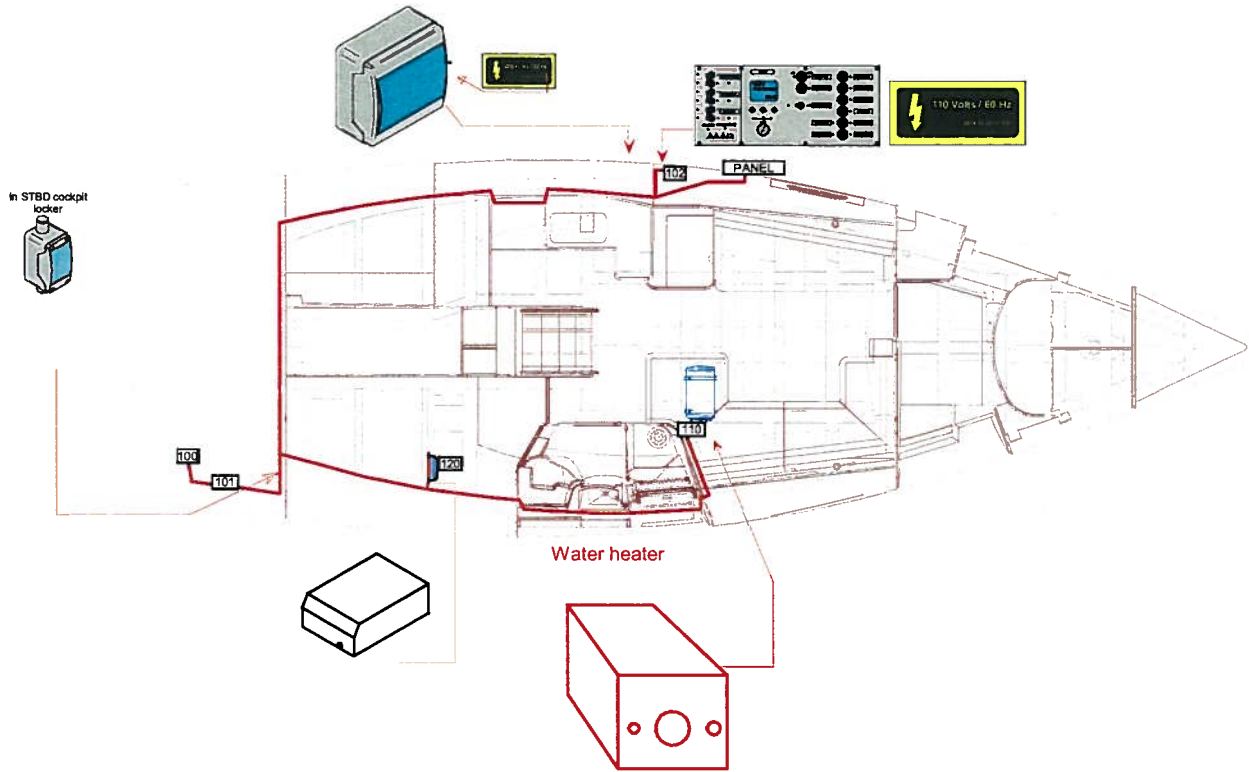
Never swim in a marina around boats connected to shore power. If necessary for maintenance unplug the boat being worked on and surrounding boats.

WARNING! DO NOT OPERATE THE 110V WATER HEATER DRY.

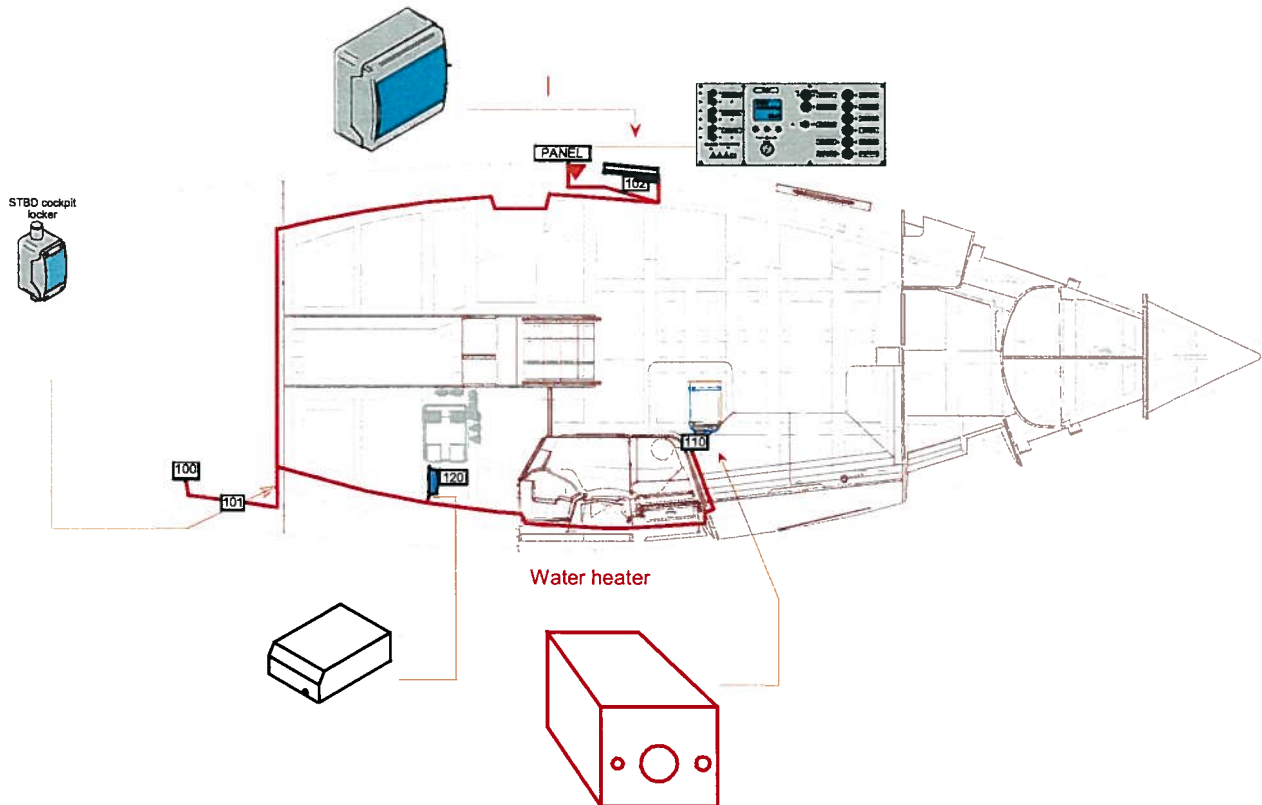


110V HARNESS LAYOUT IN HULL

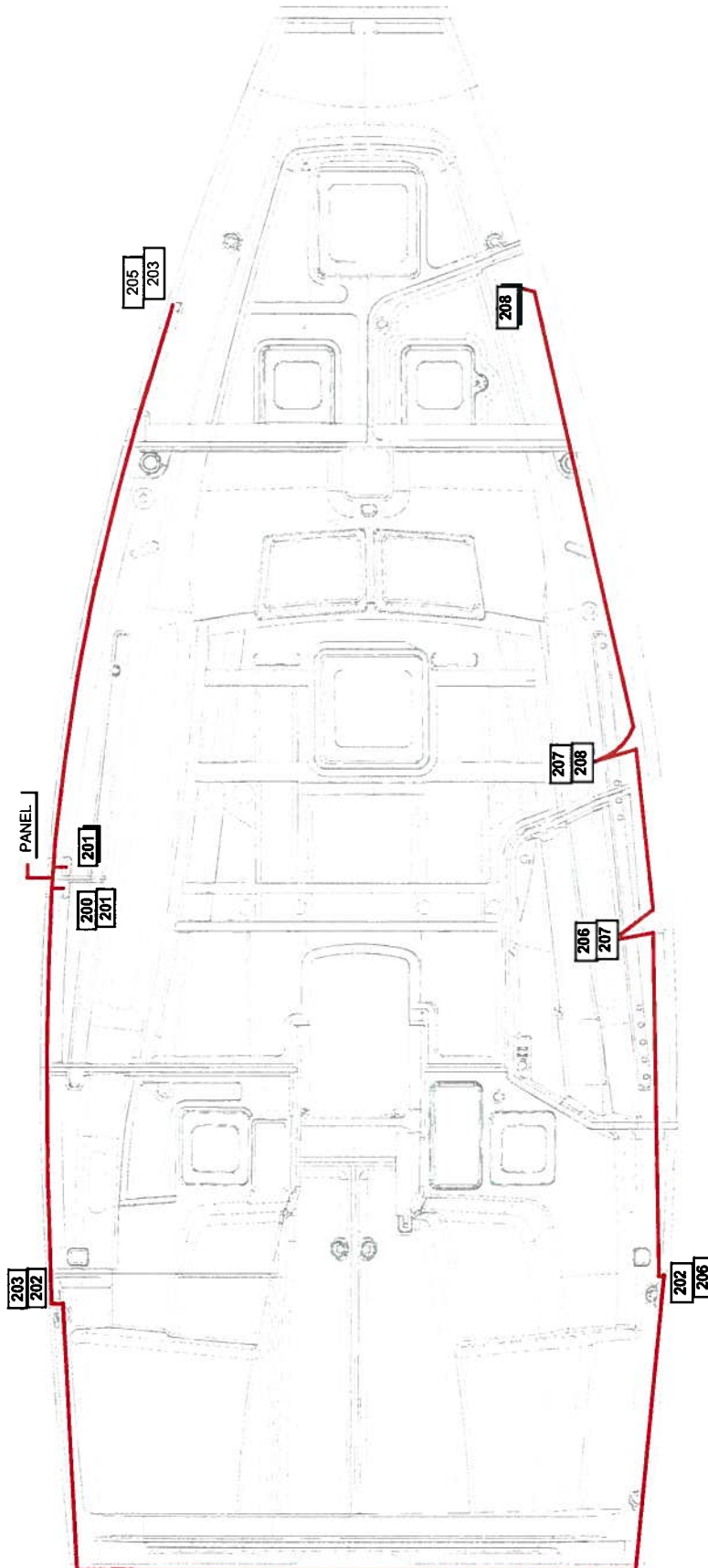
2 CABIN



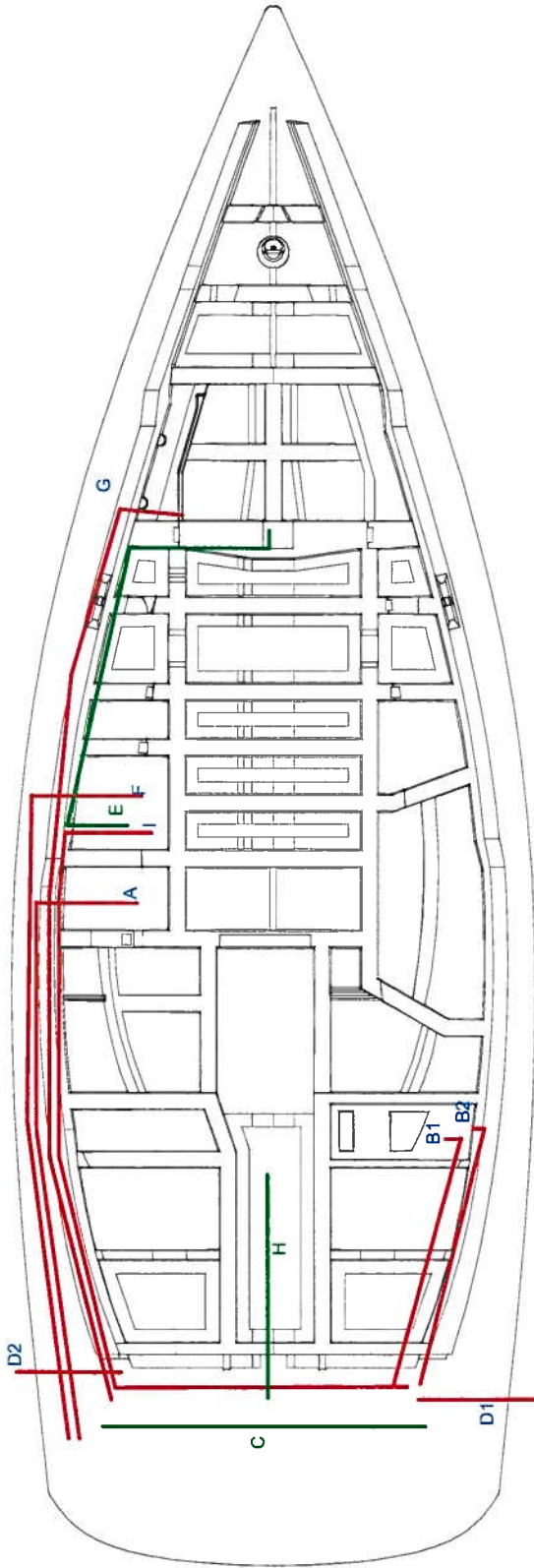
3 CABIN



110V HARNESS LAYOUT IN DECK



CONDUITS



- All conduits are 1"
- A- 5.5m Chart table to Propane
 - B1-B2- 1.9m Bat switch to transom
 - C- 1.8m Aft locker port to STBD (in deck)
 - D1-D2- 1.7m From transom (hull) to instr.steering (in deck)
 - E- 5m Chart table to mast step
 - F- 5m Chart table to port transom
 - G - 9m Transducers to transom
 - I- 7m Chart table to STBD transom
 - H: 1.6m transom to cockpit table (Deck)