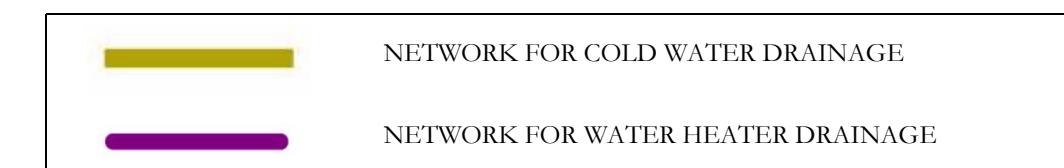
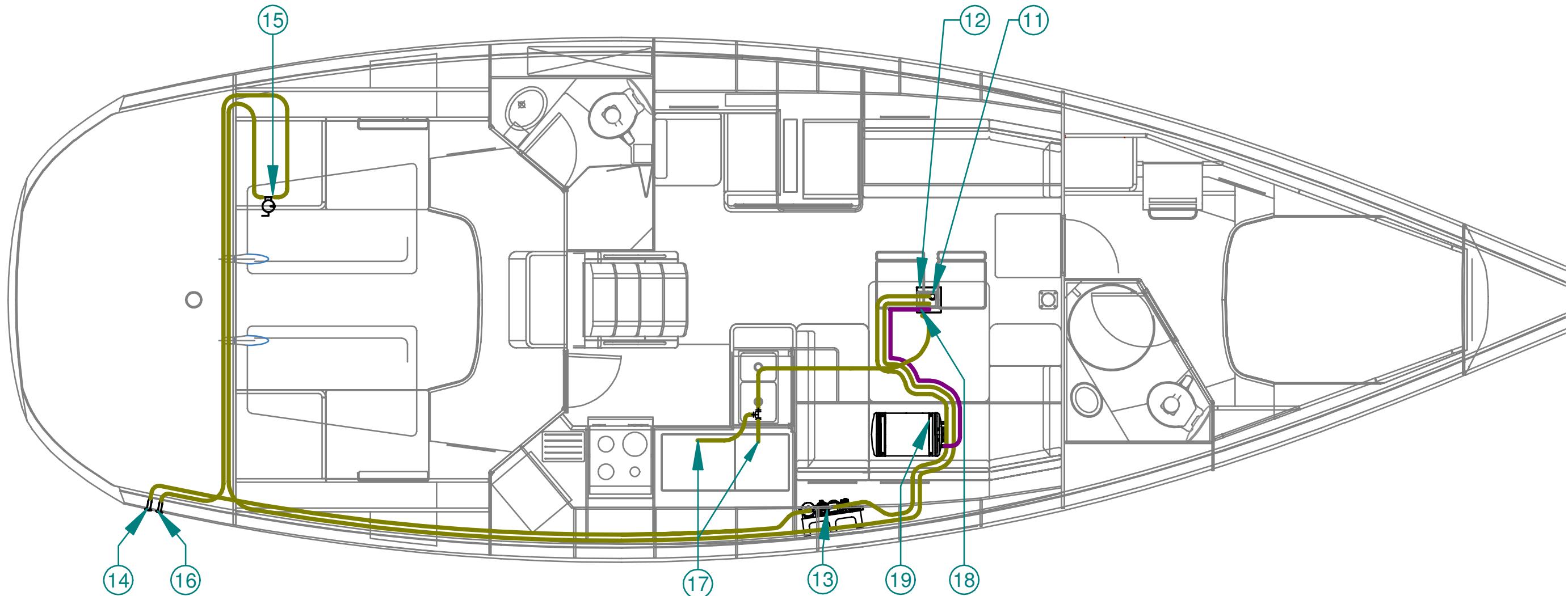


	NETWORK FOR WC DRAINAGE (HEADS FILLER)
	NETWORK FOR SINK/SHOWER DRAINAGE
	NETWORK FOR SEA WATER SUCTION
	NETWORK FOR WC DRAINAGE
	VENTHOLE NETWORK

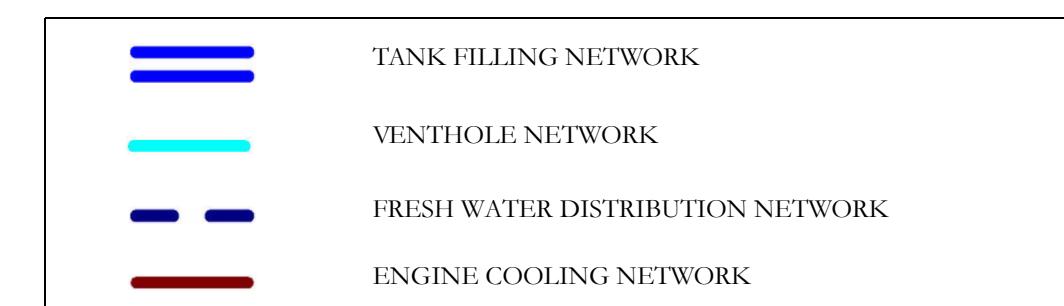
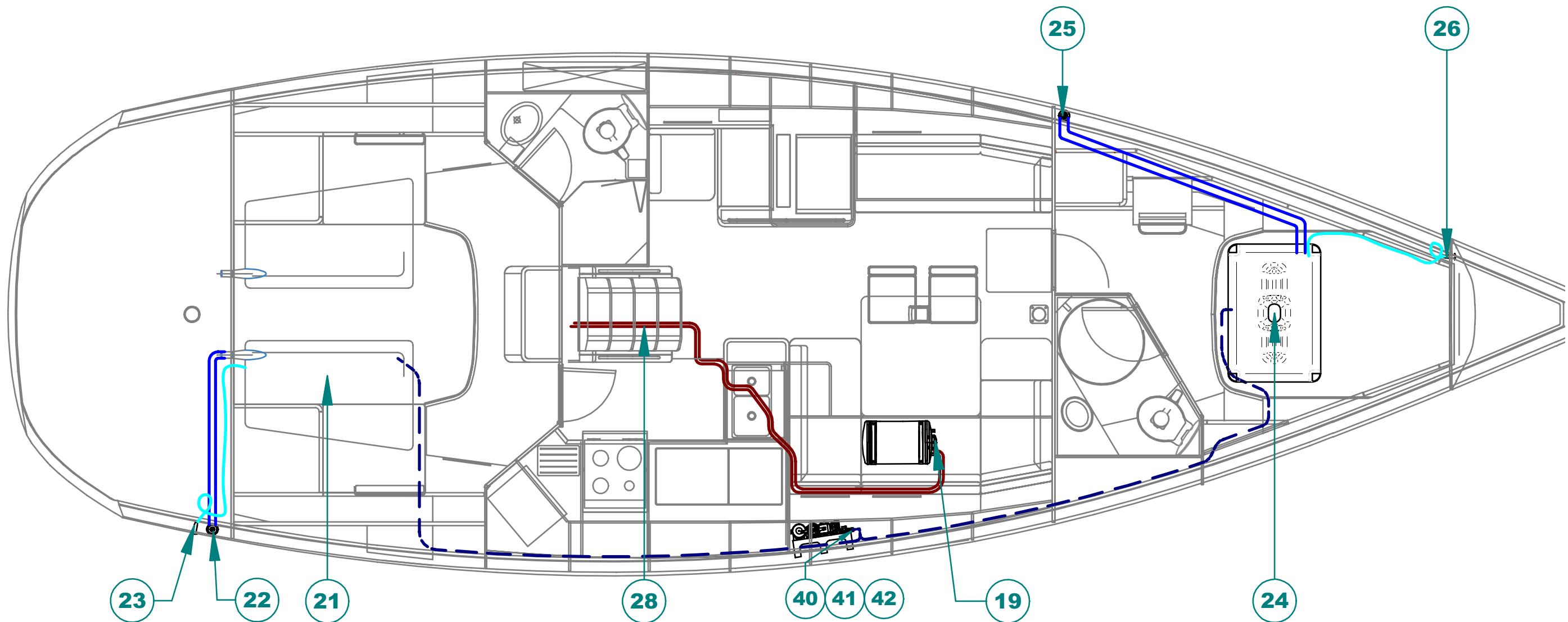
DRAINAGE OF THE WASTE WATERS

REFERENCE ON DIAGRAM	FUNCTIONS
1	Shower plug hole
2	Shower pump
3	Hand spray evacuation valve
4	Sink plug hole / Draining rack
5	Sink drainage valve
6	WC seawater suction valve
7	WC evacuation gate valve or WHT
8	WHT drainage pump
9	WHT vent
10	Anti-siphonage item



BILGE PUMP SYSTEM BILGE

REFERENCE ON DIAGRAM	FUNCTIONS
11	Bilge pump "Rule"
12	Sump filter
13	Electric bilge pump
14	Drainage Electric bilge pump
15	Manual bilge pump + "By-pass"
16	Drainage Bilge pump
17	Icebox drainage
18	Boiler draining
19	Water heater

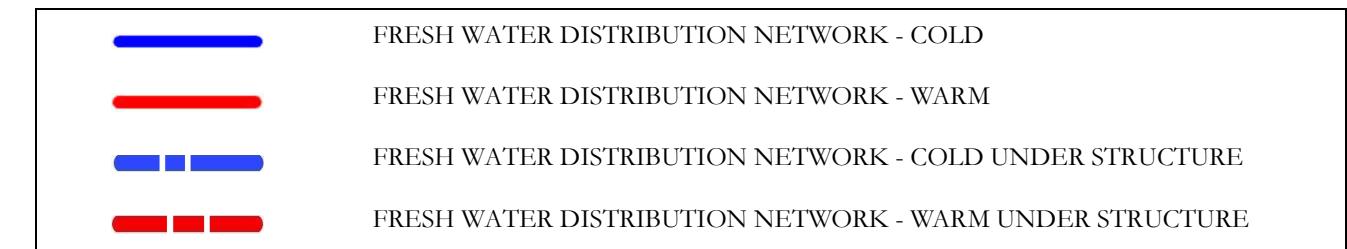
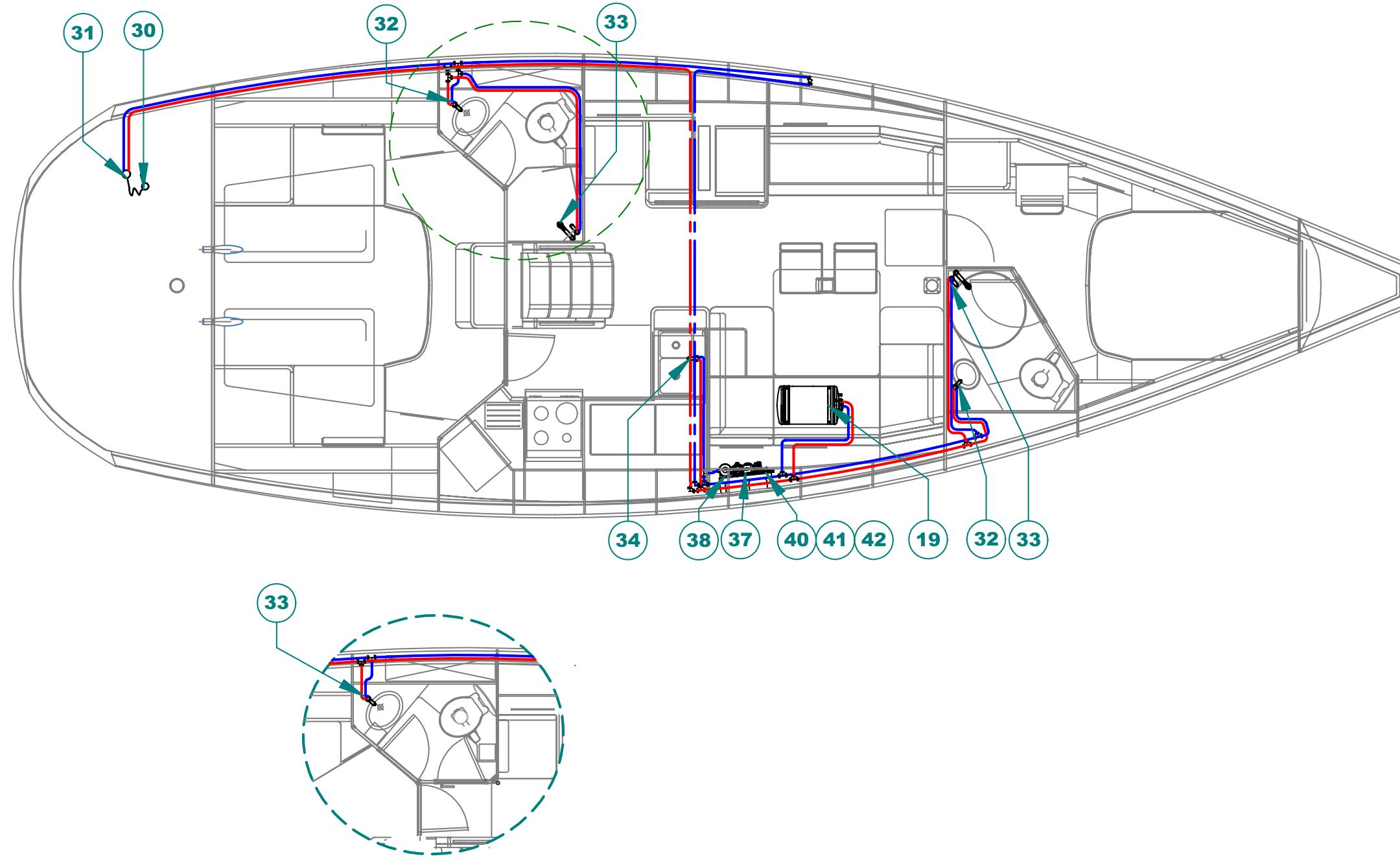


TANK FILLING NETWORK + WATER HEATER

REFERENCE ON DIAGRAM	FUNCTIONS
19	Water heater
21	Aft water tank
22	Filler of the aft water tank
23	Vent hole Aft water tank
24	Forward water tank
25	Filler of the forward water tank
26	Vent hole Forward water tank
28	Rubber tubes for engine coolant
40	Reservoir valve 1
41	Reservoir valve 2
42	Reservoir valve 3 (Optional extra)

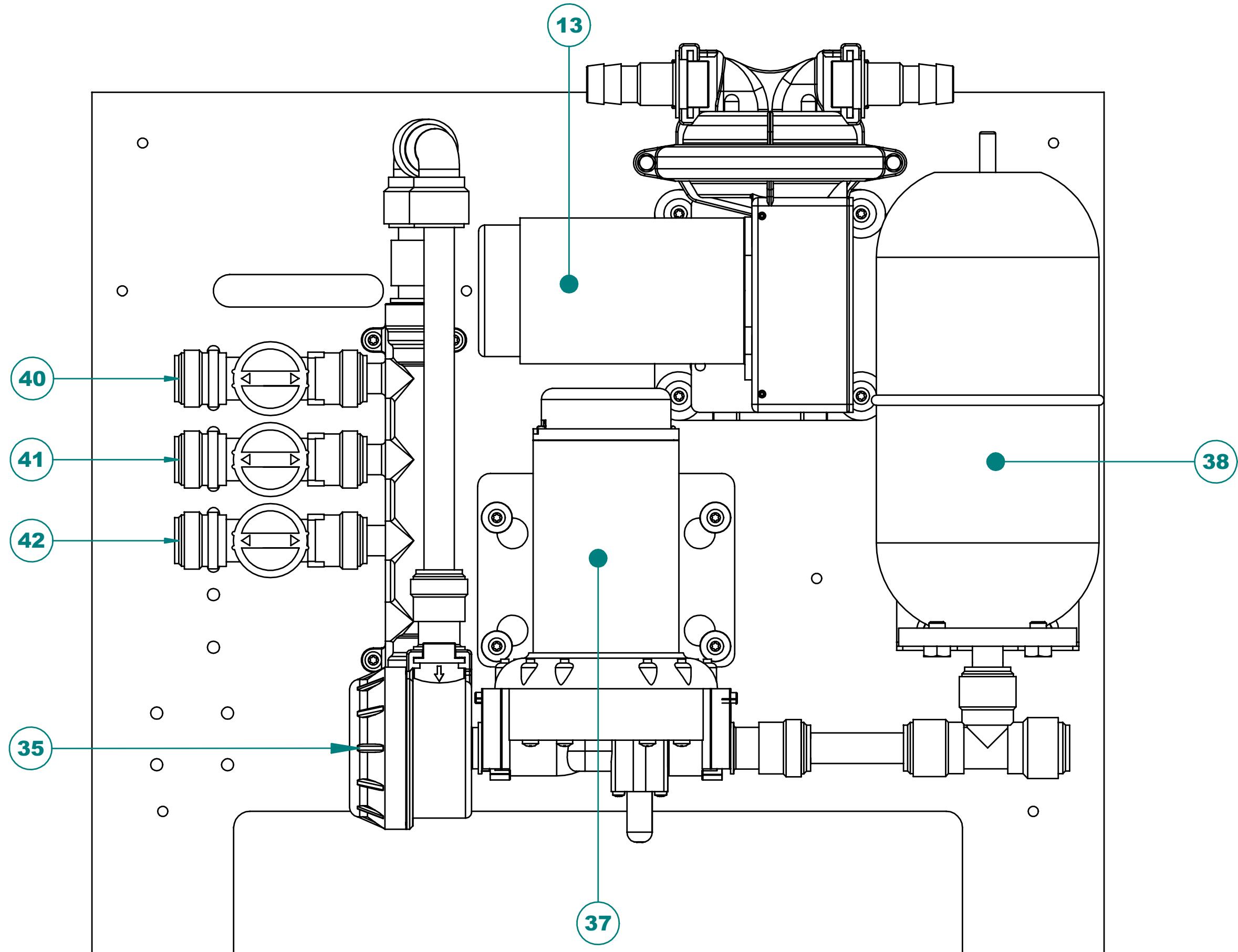
VERSION 3 CABINS

PLUMBING



FRESH WATER DISTRIBUTION**VERSION 3 CABINS**

REFERENCE ON DIAGRAM	FUNCTIONS
19	Water heater
30	Deck shower
31	Deck shower mixer tap
32	Washbasin mixer tap
33	Mixer tap + Shower
34	Sink mixer tap
37	Water unit
38	Expansion chamber
40	Reservoir valve 1
41	Reservoir valve 2
42	Reservoir valve 3 (Optional extra)



FRESH WATER DISTRIBUTION

REFERENCE ON DIAGRAM	FUNCTIONS
13	Electric bilge pump
35	Fresh water filter
37	Water unit
38	Expansion chamber
40	Reservoir valve 1
41	Reservoir valve 2
42	Reservoir valve 3 (Optional extra)

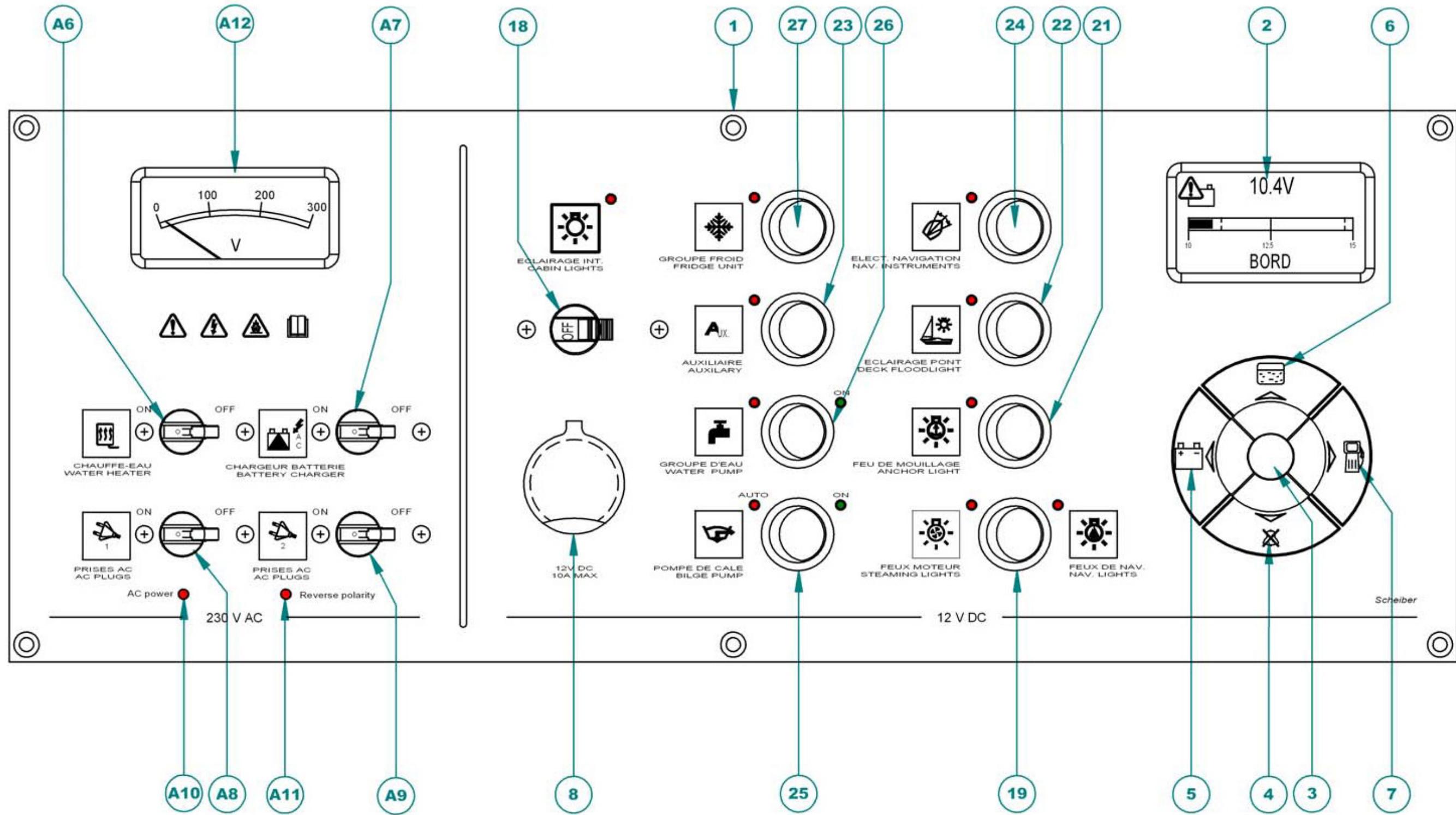
12 V DC CAPTION

○	MISCELLANEOUS ITEMS	□	FAST CONNECTION
●	OVERHEAD LIGHT	①	BATTERY SWITCH
●	OVERHEAD LIGHT WITH SWITCH	②	WATTAGE CIRCUIT BREAKER
●	SPOT LIGHT	③	DECK SWITCH
●	FLUORESCENT LAMP AND NEON LIGHT	④	BALL RELEASE MECHANISM OF THE PUMP
●	RED AND GREEN FORE LIGHTS	⑤	THERMOSTAT
●	STERN LIGHT	⑥	DIAL (VARIOUS ITEMS)
●	12 V DC SOCKET	⑦	GAUGE (RECEIVER)
●	LOUDSPEAKER	⑧	TRANSMITTER
●	ELECTRIC ENGINE	⑨	REMOTE CONTROL
●	VENTILATOR	⑩	WINDLASS
●	FM ELECTRONIC ANTENNA	⑪	SWITCH
●	FLOWMETER TRANSMITTER	⑫	TWO-WAY SWITCH OR PUSH BUTTON
●	RELAY BOX	⑬	OVERHEAT CONTACTOR
●	CHARGE DIVIDER	⑭	RADIO CASSETTE PLAYER AND/OR CD PLAYER
●	SHUNT	⑮	BATTERY
●	FUSE	■	ELECTRICAL PANEL
●	EARTH CONNECTOR		
●	CONNECTING STRIP		
●	BRANCH		

References of the wires

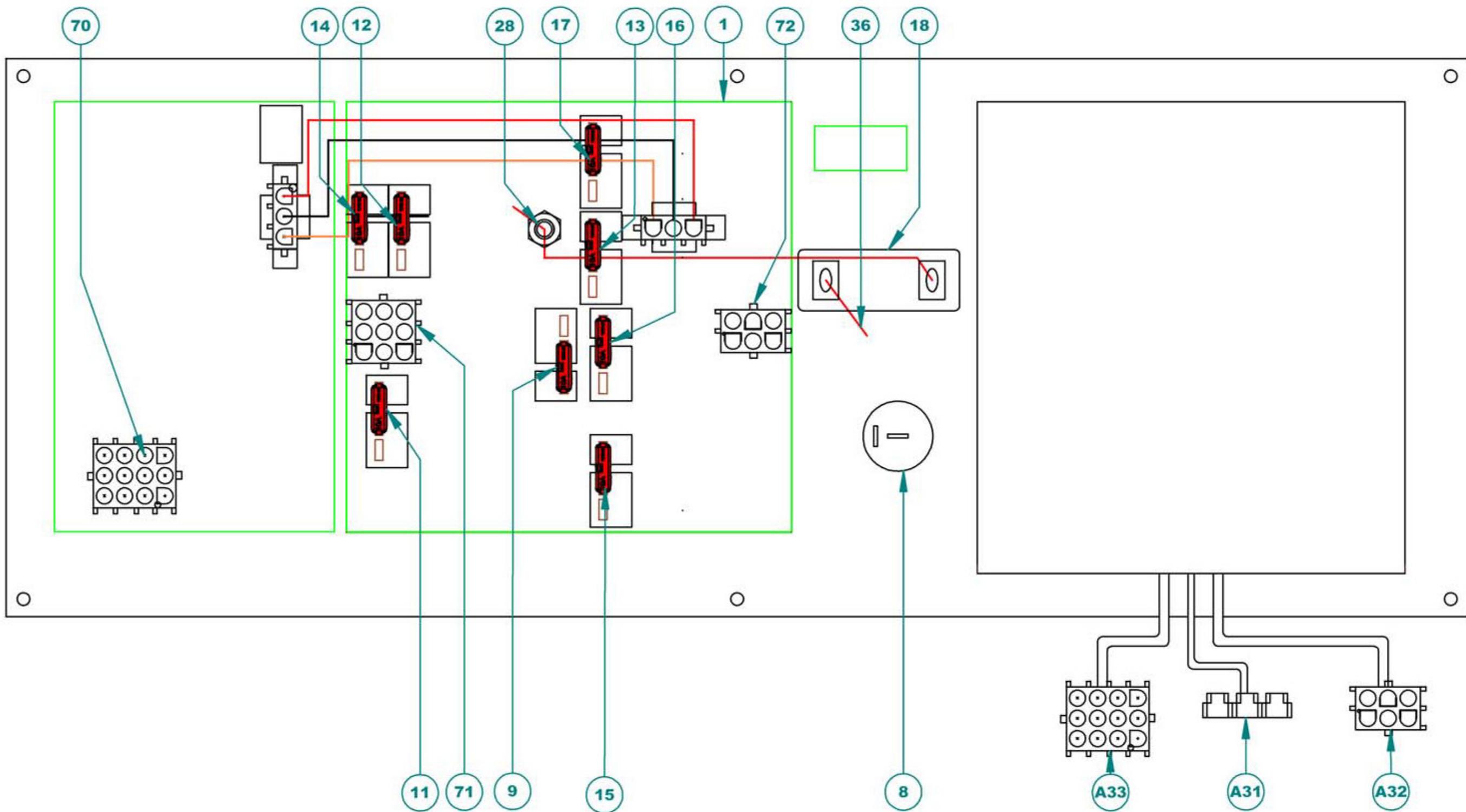
Mark of the wire Colour of the wire Section of the wire in mm ²	Codes	Colors
A m 2,5 ²	b	blue
OR	bf	dark blue
	iv	ivory
	gr	grey
	j/v	yellow/green
	m	brown
	n	black
	or	orange
	r	red
	vi	violet

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F05	CIRCUIT BREAKERS PANEL
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F30	230V AC ELECTRICAL SCHEMATIC DIAGRAM
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F40	115V AC ELECTRICAL SCHEMATIC DIAGRAM
F41	115V AC ELECTRICAL PASSAGE
F42	
F43	HEATING FUEL - PULSED AIR



ELECTRICAL PANEL

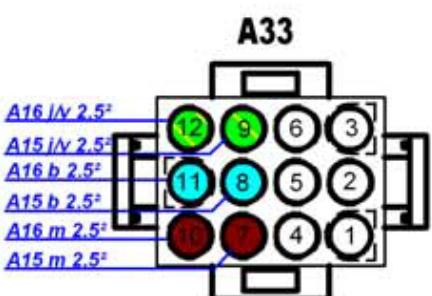
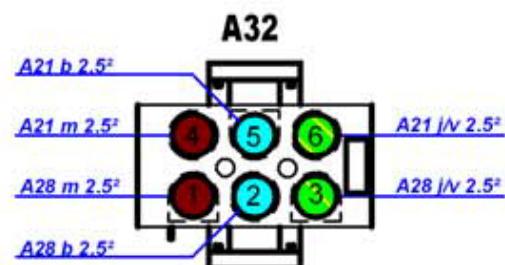
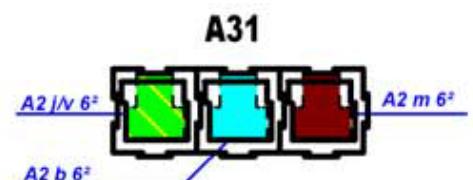
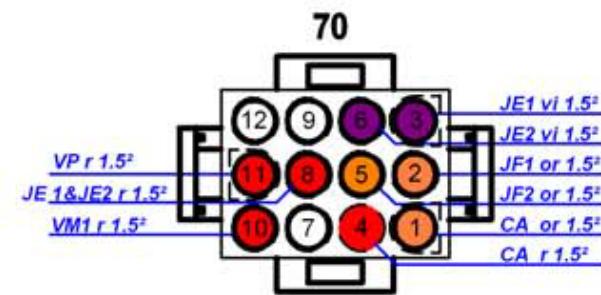
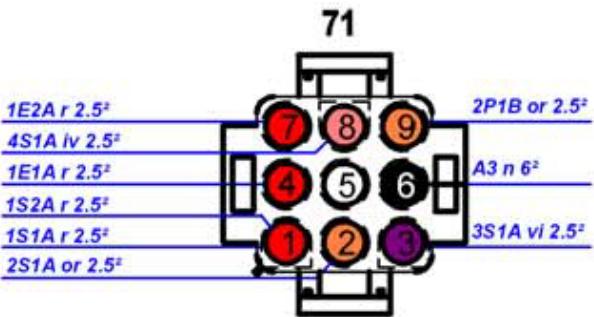
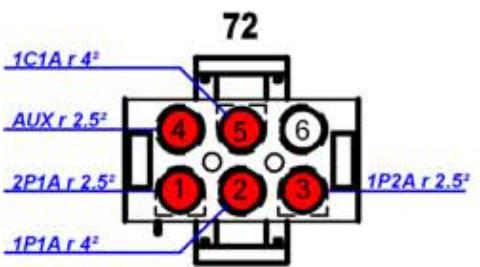
REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
1			Electrical panel "DC AMPS / 12 V VOLTS DC"
2			Multi-function display
3			Change over switch - voltmeter inlet - Water gauge / Fuel oil gauge
4			Selector - Contrast
5			Selector - Voltmeter
6			Selector - Water gauge
7			Selector - Fuel oil gauge
8	1F1A		12 V DC socket - Electrical panel
18	A2	50 A	General circuit breaker "Interior lighting"
19			Switch "Navigation light / Engine navigation light"
21			Switch "Mooring light"
22			Switch "Deck light"
23			Switch "Auxiliary" (Optional extra)
24			Switch "Navigation electronics"
25			Switch "Bilge pump"
26			Switch "Water unit"
27			Switch "Refrigeration unit"
28			Supply - Electrical panel



ELECTRICAL PANEL WIRING

REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
1			Electrical panel "DC AMPS / 12 V VOLTS DC"
8	1F1A		12 V DC socket - Electrical panel
9	1S1A-1S2A	10A	Breaker "Navigation light /Engine navigation light"
11	3S1A	10A	Breaker "Mooring light"
12	4S1A	10A	Breaker "Deck light"
13	OPT	10A	Breaker "Auxiliary" (Optional extra 2st Refrigeration unit)
14	1E(1,2)A	10A	Breaker "Navigation electronics"
15	1P1A-1P2A	10A	Breaker "Bilge pump"
16	2P1A-2P1B-JE	10A	Breaker "Water unit"
17	1C1A	10A	Breaker "Refrigeration unit"
18	A2	50A	General circuit breaker "Interior lighting"
28			Supply - Electrical panel
36			Circa "Interior lighting" general circuit-breaker
70			12 way connector: Electrical panel - Hull system
71			09 way connector: Electrical panel - Hull system
72			06 way connector: Electrical panel - Hull system

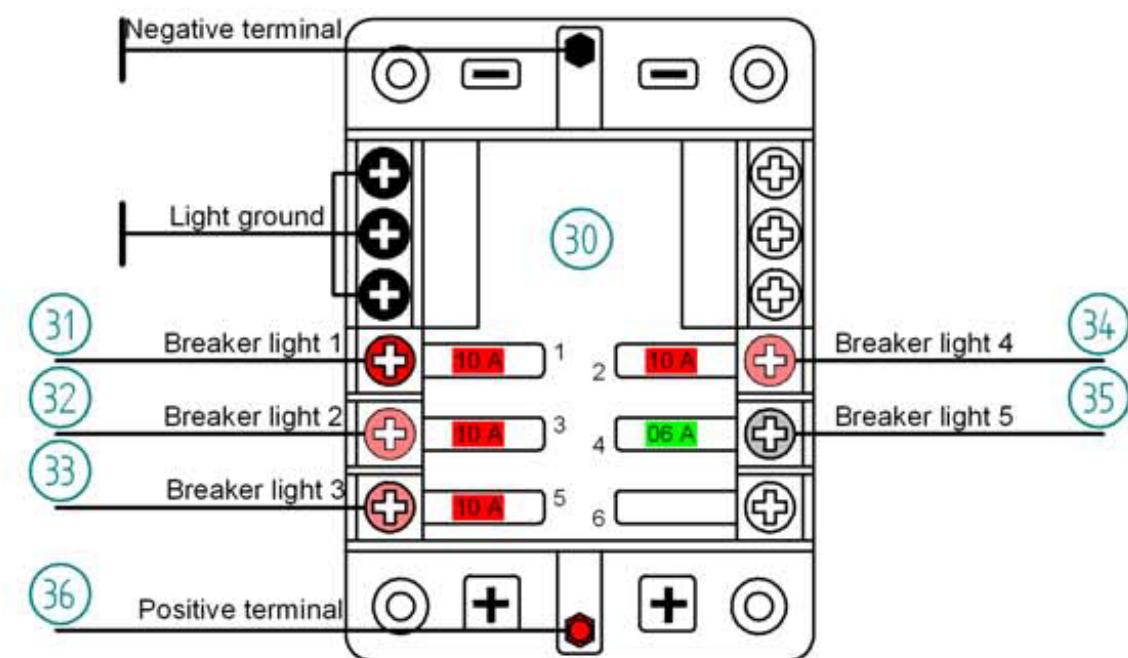
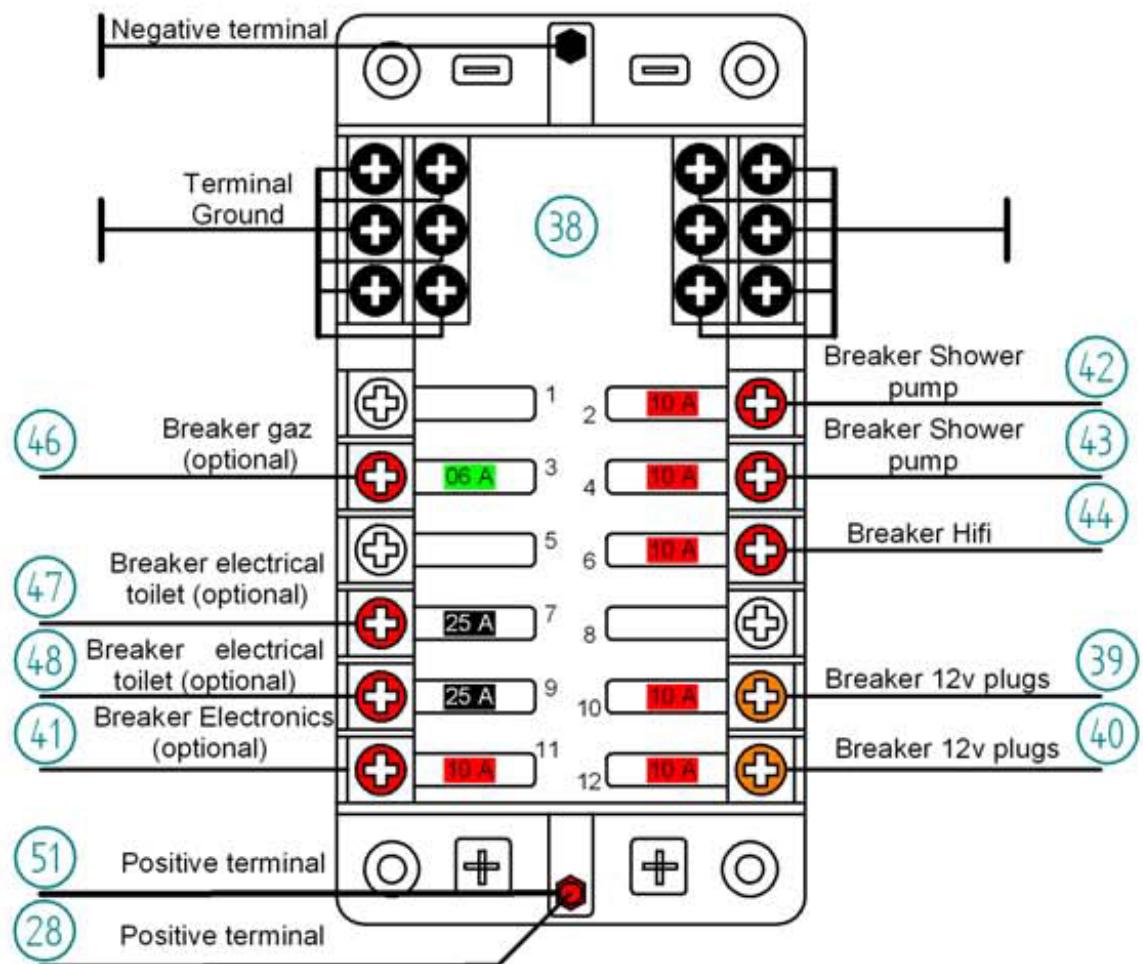
A31	A31		Starboard mess room outlet (differential in 115 V)
A32	A32		Forward starboard cabin socket
A33	A33		Socket - starboard aft cabin



ELECTRICAL PANEL WIRING

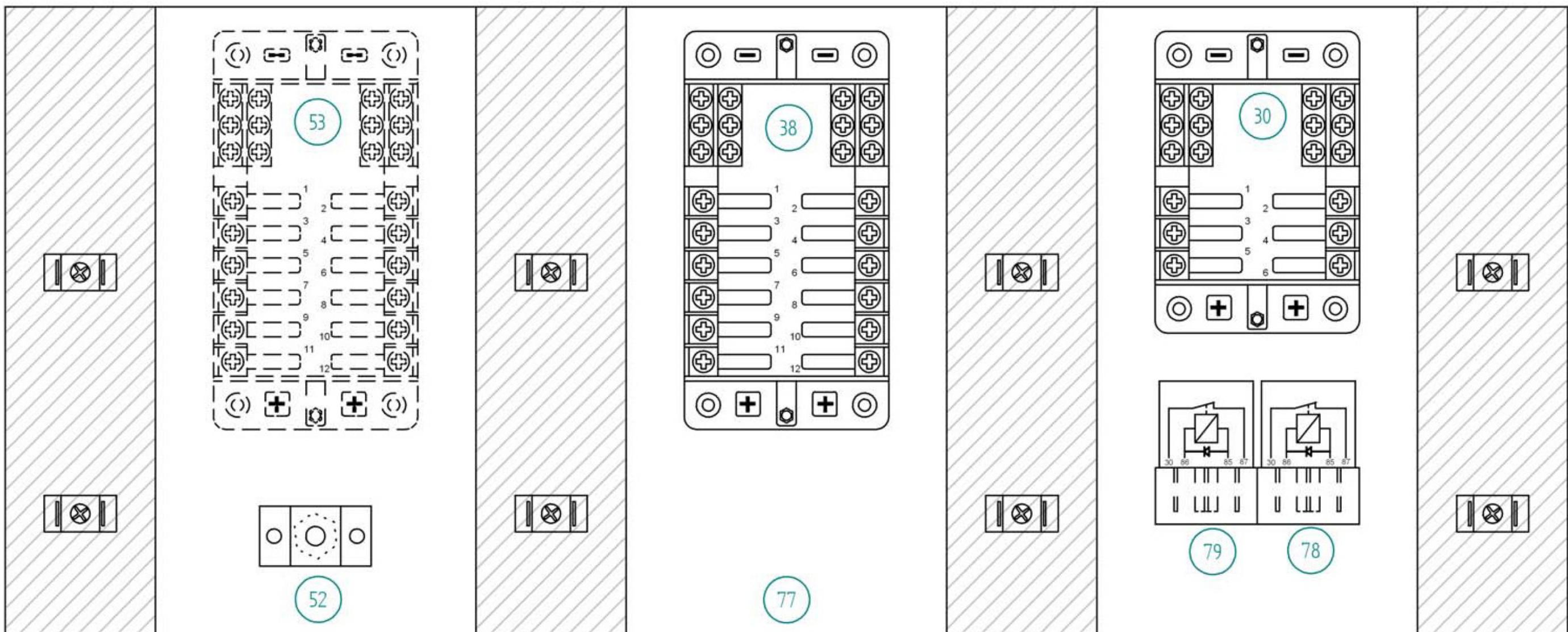
REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
70			12 way connector : Electrical panel - Hull system
70-1	CA		(-) SHUNT
70-2	JF		Fuel oil tank 1
70-3	JE1		Water reservoir No 1
70-4	CA		(+) SHUNT
70-5	JF2		Fuel oil tank 2
70-6	JE2		Water reservoir No 2
70-8	JE1 & JE2		Supply water lead lines
70-10	VM1		Battery for engine
70-11	VP		Auxiliary battery (Optional extra)
71			09 way connector : Electrical panel - Hull system
71-1	1S1A-1S2A		Navigation light
71-2	2S1A		Engine navigation light
71-3	3S1A		Mooring light
71-4	1E1A		Navigation electronics
71-6	A3		Ground
71-7	1E2A		Navigation electronics
71-8	4S1A		Deck light
71-9	2P1B		Water system (Entrance - Led)
72			06 way connector : Electrical panel - Hull system
72-1	2P1A		Fresh water unit
72-2	1P1A		Automatic bilge pump
72-3	1P1A		Manual bilge pump
72-4	AUX		Auxiliary
72-5	1C1A		Refrigeration unit

A31	A31		Starboard mess room outlet (differential in 115 V)
A32	A32		Forward starboard cabin socket
A33	A33		Socket - starboard aft cabin



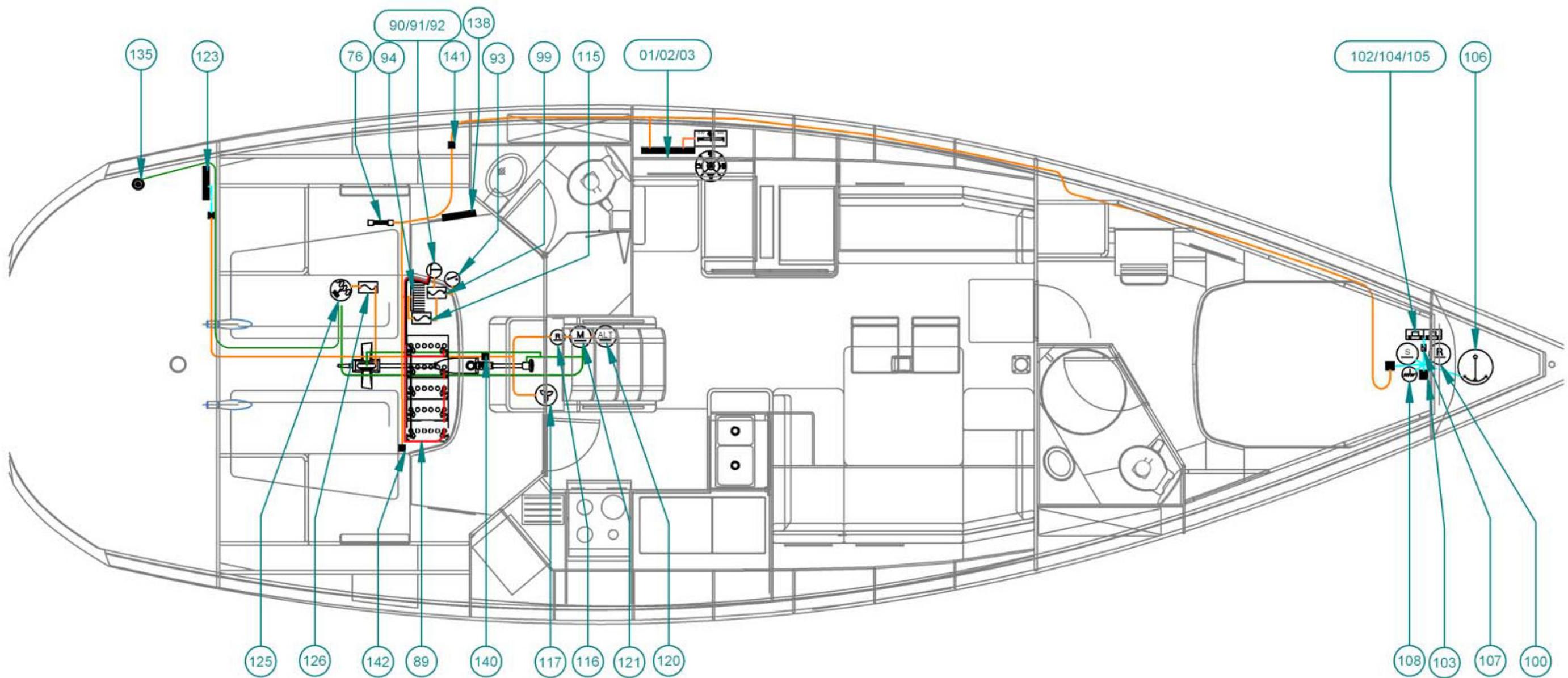
PANEL - BREAKER

REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
28			Supply - Electrical panel
31	1L1A	10A	Breaker "Interior lights 1"
32	2L1A - 2L2A	10A	Breaker "Interior lights 2"
33	3L1A - 3L2A	10A	Breaker "Interior lights 3"
34	4L1A	10A	Breaker "Interior lights 4"
35	5L1A	10A	Breaker "Interior lights 5"
36			Circa "Interior lighting" general circuit-breaker
39	1F(1,2,3,4,)A	10A	Breaker "12 V DC sockets 1"
40		10A	Breaker "12 V DC sockets 2"
41	2E1A	10A	Breaker "Navigation electronics"
42	3P1A	06A	Breaker "Shower pump"
43	4P1A	06A	Breaker "Shower pump"
44	1HF1A	10A	Breaker "VHF / Hifi"
46	GAZ		Breaker Electromagnetic valve for gas (optional extra)
47		25A	Breaker "Electric toilet 1" (optional extra)
48		25A	Breaker "Electric toilet 2" (optional extra)
51	A1		Electric terminal - Fuse - house



ELECTRIC JUNCTION PANEL**PANEL 12V**

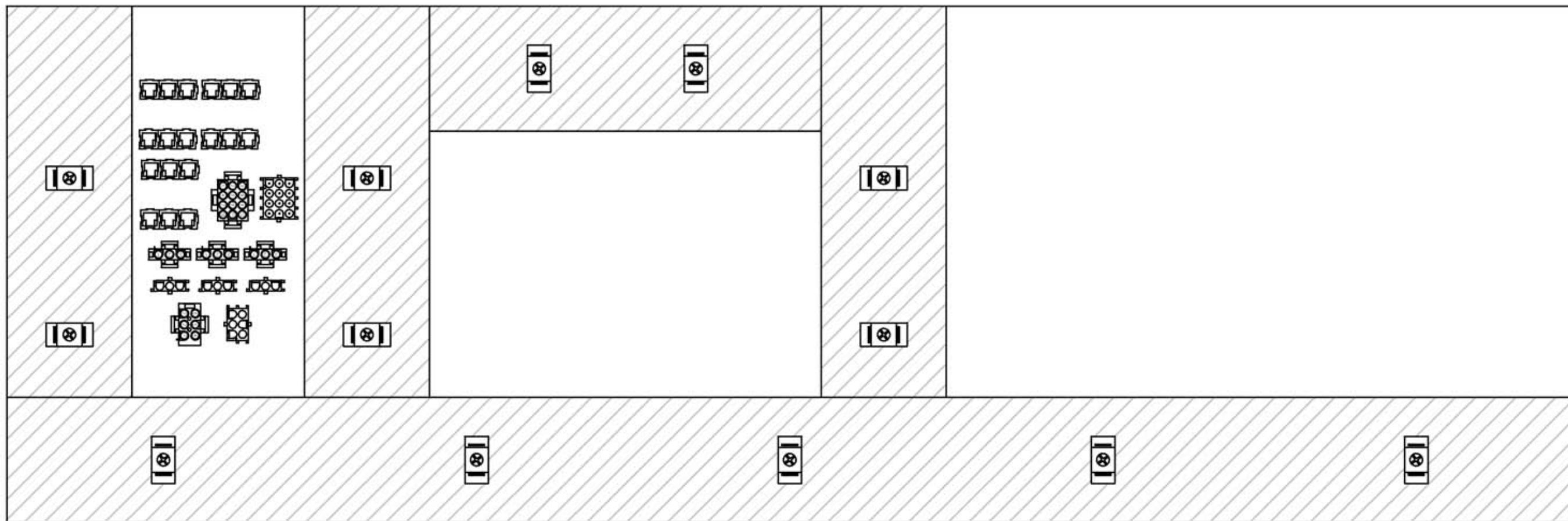
REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
30			Electric terminal - Lighting "DC AMPS / 12 V VOLTS DC"
38			Electric terminal "DC AMPS / 12 V VOLTS DC"
52			Ground eye Electrical panel
53			Electric terminal (optional extra) "DC AMPS / 12 V VOLTS DC"
77			Electrical panel mount
78	1E1A-1E1B-1E3A		Relay box for autopilot (optional extra)
79	1E3A-2E1A		Relay box for exterior tractor (optional extra)



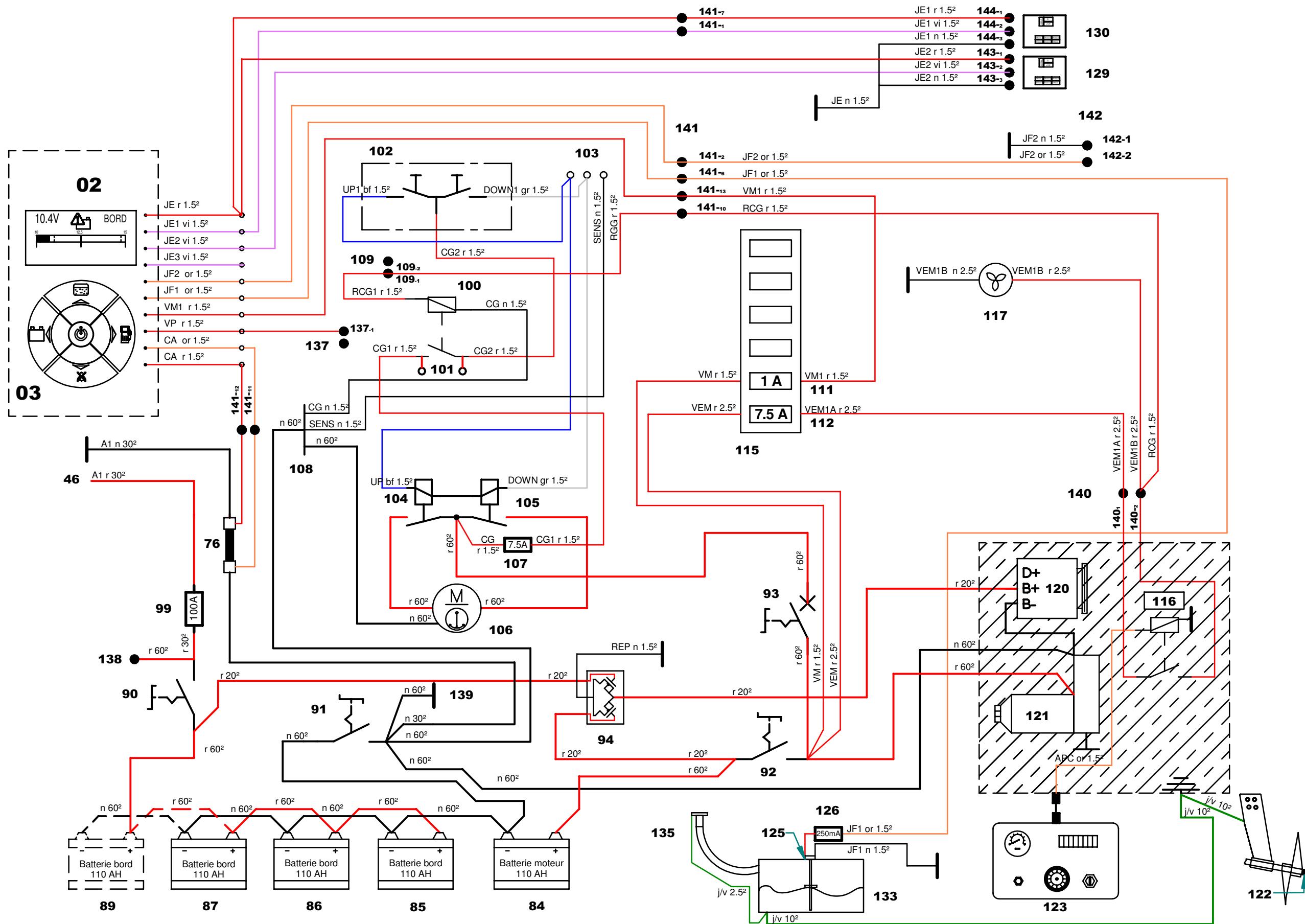
	12 V DC HARNESS + BATTERY
	12 V DC HARNESS - BATTERY
	GROUNDING HARNESS - YELLOW / GREEN
	12 V DC HARNESS - DECK
	12 V DC HARNESS - BELOW DECK
	12 V DC HARNESS - HULL

12 V DC ELECTRICAL PASSAGE (POWER)

REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
1			Electrical panel "DC AMPS / 12 V VOLTS DC"
2			Multi-function display
3			Change over switch - voltmeter inlet/Water gauge/Fuel oil gauge
76	A1-CA	100A-50mv	Shunt - consumption
89		110Ah	House battery (optional extra)
90		150A	Battery switch "positive terminal - house"
91		150A	Battery switch "negative terminal"
92		150A	Battery breaker - "positive terminal - engine"
93		125A	Windlass circuit breaker
94		100A	Charge divider (depending on engine version)
99		100A	General house fuse
100			Safety relay for electric windlass
102	UP1-DOWN1		Control relay of electric windlass
103			3 way connector: Windlass system - Dual control harness and windlass chain meter
104	UP		Up relay on electric windlass
105	DOWN		Down relay on electric windlass
106		1200W	12 DC electric windlass
107	CG-CG1-CG2	7,5A	Safety fuse of windlass safety box supply
108	CG-SENS		Electric windlass mass connection terminal
115			Fuse box holder
116			Engine safety relay
117	VEM1B	52W	Engine compartment ventilator
120		90A	Engine alternator (depending on engine version)
121		1800W	Engine starter
123			Engine panel
125	JF1		Fuel oil gauge transmitter
126	JF1	250mA	Safety fuse of fuel oil gauge
135			Fuel oil tank filler
138			Panel Optional extra
140			2 way connector: Engine - Engine system
141			14 way connector :Engine system - Hull system
142			2 way connector: Engine system - Fuel oil tank Optional extra

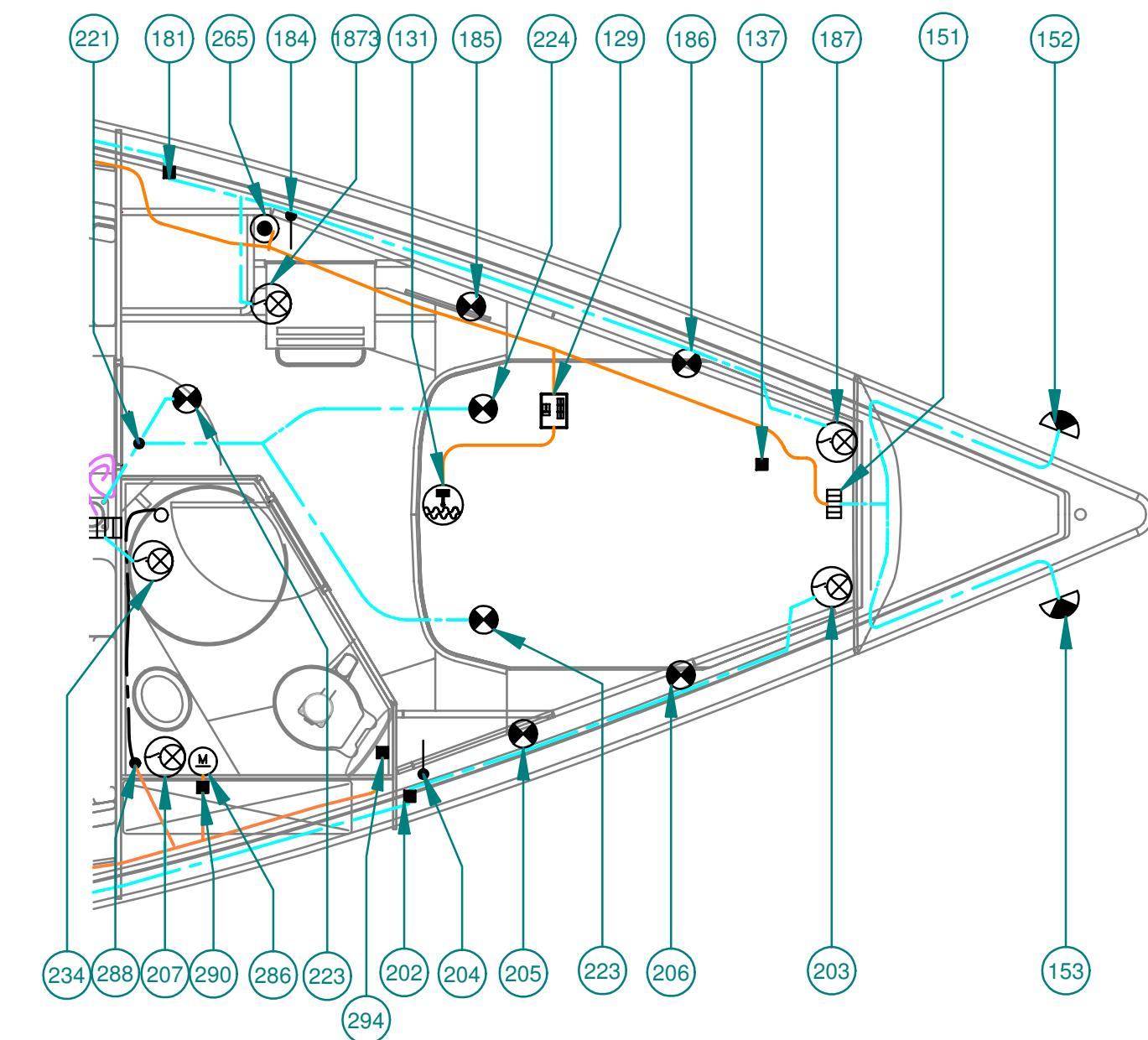
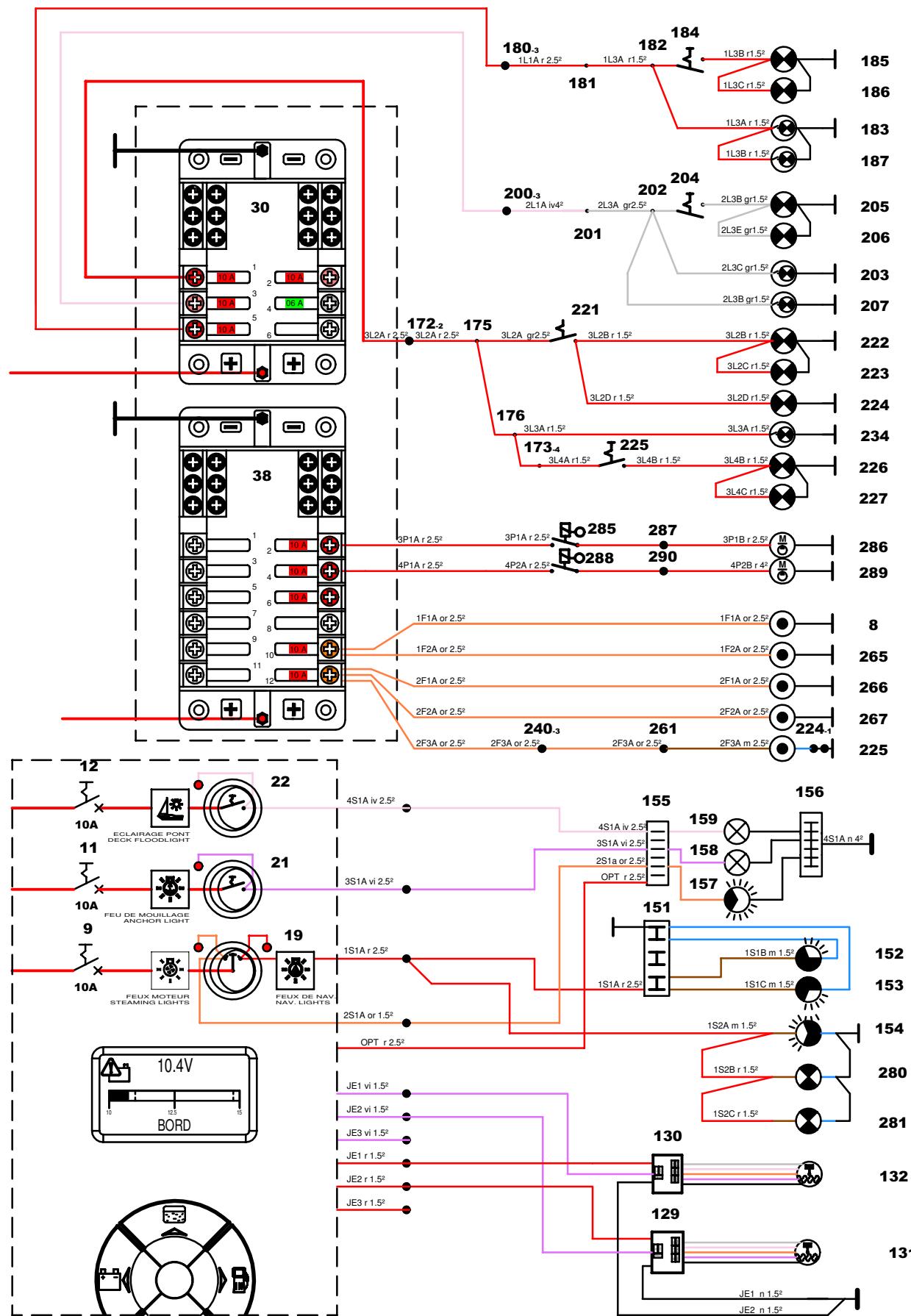


12 V DC ELECTRICAL SCHEMATIC DIAGRAM (POWER - ENGINE - WINDLASS)



12 V DC ELECTRICAL SCHEMATIC DIAGRAM (POWER - ENGINE - WINDLASS)

REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
2			Electrical panel "DC AMPS / 12 VOLTS DC"
3			Change over switch - voltmeter inlet/Water gauge/Fuel oil gauge
46	GAZ	06A	Breaker Electromagnetic valve for gas (optional extra)
76	A1-CA	100A-50mv	Shunt - consumption
84		110Ah	Battery for engine
85		110Ah	House battery 1
86		110Ah	House battery 2
87		110Ah	House battery 3
89		110Ah	House battery (optional extra)
90		150A	Battery switch "positive terminal - house"
91		150A	Battery switch "negative terminal"
92		150A	Battery breaker - "positive terminal - engine"
93		125A	Windlass circuit breaker
94		100A	Charge divider (depending on engine version)
99		100A	General house fuse
100			Safety relay for electric windlass
101			No shunt so that the windlass works after the start of the engine
102	UP1-DOWN1		Control relay of electric windlass
103			3 way connector: Windlass system - Dual control harness and windlass chain meter
104	UP		Up relay on electric windlass
105	DOWN		Down relay on electric windlass
106		1200W	12V DC electric windlass
107	CG-CG1-CG2	7,5A	Safety fuse of windlass safety box supply
108	CG-SENS		Electric windlass mass connection terminal
109			2 way connector: Windlass system - Hull harness
111	VM-VM1	1A	Safety fuse of the engine voltmeter
112	VEM-VEM1A	7,5A	Safety fuse of bilge ventilator
115			Fuse box holder
116			Engine safety relay
117	VEM1B	52W	Engine compartment ventilator
120		90A	Engine alternator (depending on engine version)
121		1800W	Engine starter
122			Anode on drive shaft
123			Engine panel
125	JF1		Fuel oil gauge transmitter
126	JF1	250mA	Safety fuse of fuel oil gauge
129	JE2		Control box - forward tank water level
130	JE1		Control box - aft tank water level
133			Fuel tank
135			Fuel oil tank filler
137	VP		Wiring for optional bow thruster voltmeter
138			Panel Optional extra
139			Panel Optional extra Earth
140			2 way connector: Engine - Engine system
141			14 way connector: Engine system - Hull system
142			2 way connector: Engine system - Fuel oil tank Optional extra
143	JE2		3 way connector: Hull system - Control box - forward tank water level
144	JE1		3 way connector: Hull system - Control box - aft tank water level



12 V DC HARNESS - DEC

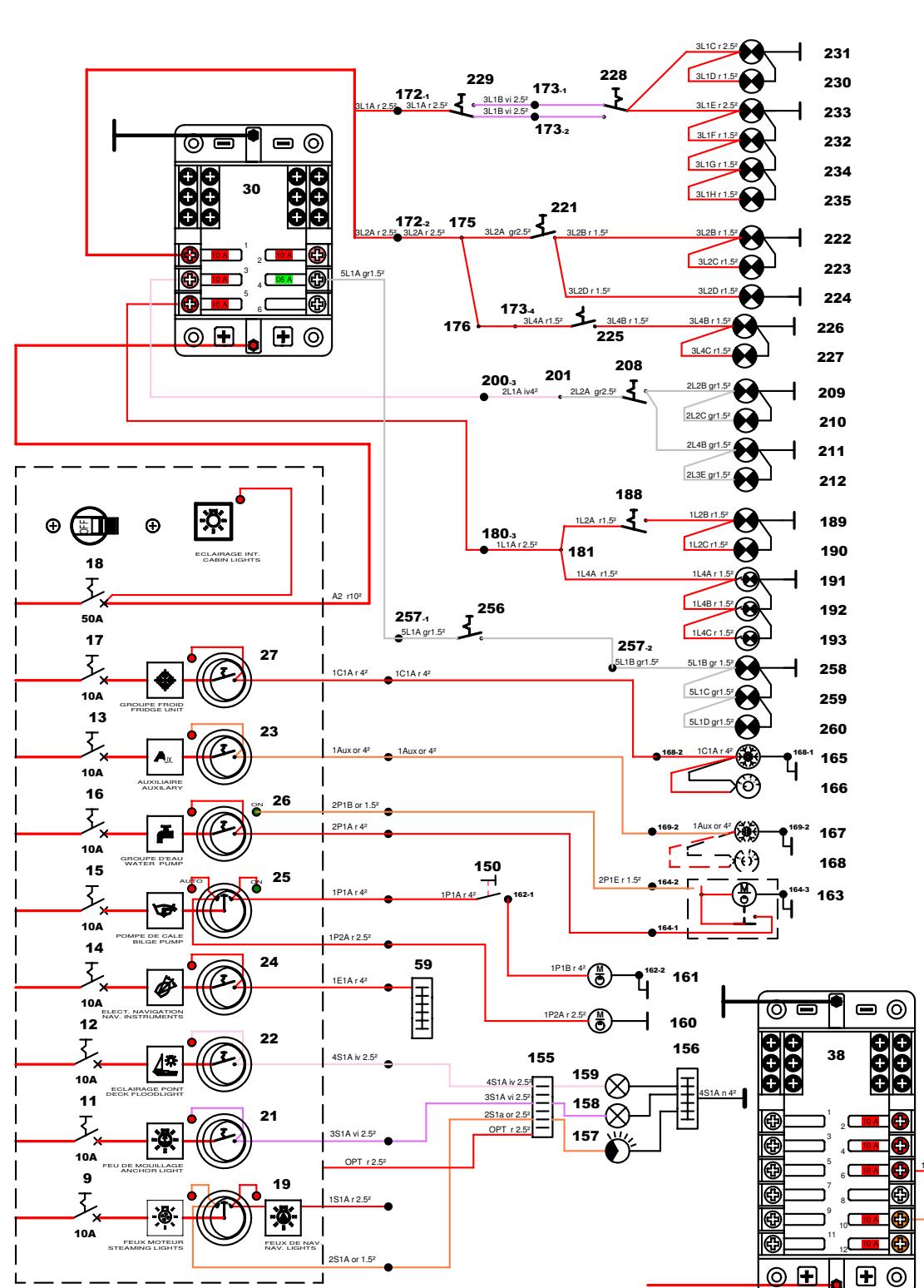
12 V DC HARNESS - BELOW DECK

12 V DC HARNESS - HULI

12 V DC ELECTRICAL SCHEMATIC DIAGRAM - FORWARD CABIN

REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE		REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
8	1F1A		12V DC socket electrical panel	187	1L3B	10W	Reading light with switch in forward cabin
11	3S1A	10A	"Anchor light" circuit breaker	200			4 way connector: Starboard catwalk - Hull
12	4S1A	10A	"Deck lighting" circuit breaker	201	2L1A		Branch 2L..
19			"Navigation light/ engine light" switch	202	2L3A 2L3C		2 way connector: Starboard catwalk - Forward cabin
21			"Anchor light" switch	203	2L3C	10W	Reading light with switch in forward cabin
22			"Deck lighting" switch	204	2L3A/2L3B		Catwalk light switch in port forward cabin
129	JE2		Control box - forward tank water level	205	2L3B/2L3E	10W	Ceiling fitting in front cabin catwalk
130	JE1		Control box - aft tank water level	206	2L3E	10W	Ceiling fitting in front cabin catwalk
131			Front tank meter	207	2L3B	10W	Reading light with switch in starboard forward bathroom
132			Rear tank meter	221	3L2A/3L2B		Ceiling light switch in forward cabin
137	VP		Wiring for optional bow thruster voltmeter	222	3L2B 3L2C	10W	Ceiling fitting - forward cabin alleyway
151	1S1A		Terminal strip: Forward navigation lights	223	3L2C 3L2D	10W	Overhead light - starboard forward cabin
152	1S1B	25W	Navigation light - forward port	224	3L2D	10W	Overhead light - port forward cabin
153	1S1C	25W	Navigation light - forward starboard	225	3L4A/3L4B		Kitchen ceiling light switch
154	1S2A	10W	Stern light	226	3L4B 3L4C	10W	Forward galley ceiling light
155			Terminal strip: Power supply - mast foot	227	3L4C	10W	Aft galley ceiling light
156	4S1A		Terminal strip: Negative terminal mast foot	234	3L1G 3L1H	10W	Overhead light - chart table
157	2S1A	25W	Steaming light	240	4L1A 4L1B	5W	Overhead light - port AFT head
158	3S1A	10W	Mooring light	261			Terminal strip: Cockpit table power supply
159	4S1A	35W	Deck light	265	1F2A		12V DC socket - port forward cabin
172			14 way connector: Deck system - Pillar	266	2F1A		12V DC intake of rear port cabin
173			6 way connector: Deck pillar circuit (saloon, galley)	267	2F2A		12V DC intake of rear starboard cabin
175			3 way connector: Deck pillar circuit (Aft)	280	1S2B 1S2C	2W	Port compass lighting
176			2 way connector: Deck pillar circuit (Forward)	281	1S2C	2W	Starboard compass lighting
180			4 way connector: Port catwalk - Hull	285	3P1A-3P1B		Shower pump switch - port AFT head
181	1L1A		Branch 1L..	286	3P1B	70W	Shower pump - port AFT head
182	1L3A 1L3C		2 way connector: Port catwalk - Forward cabin	287			2 way connector: Hull system - Inter circuit of rear port hand spray
183	1L3A 1L3B	10W	Reading light with switch Dressing table	288	4P1A-4P1B		Switch - shower pump - starboard FWD head
184	1L3C/1L3D		Catwalk light switch in port forward cabin	289	4P1B	70W	Bilge pump - starboard forward head
185	1L3D 1L3E	10W	Ceiling fitting in front cabin catwalk	290			2 way connector: Hull system - Starboard forward shower pump system
186	1L3E	10W	Ceiling fitting in front cabin catwalk	294			Supply Electric toilet (optional extra)

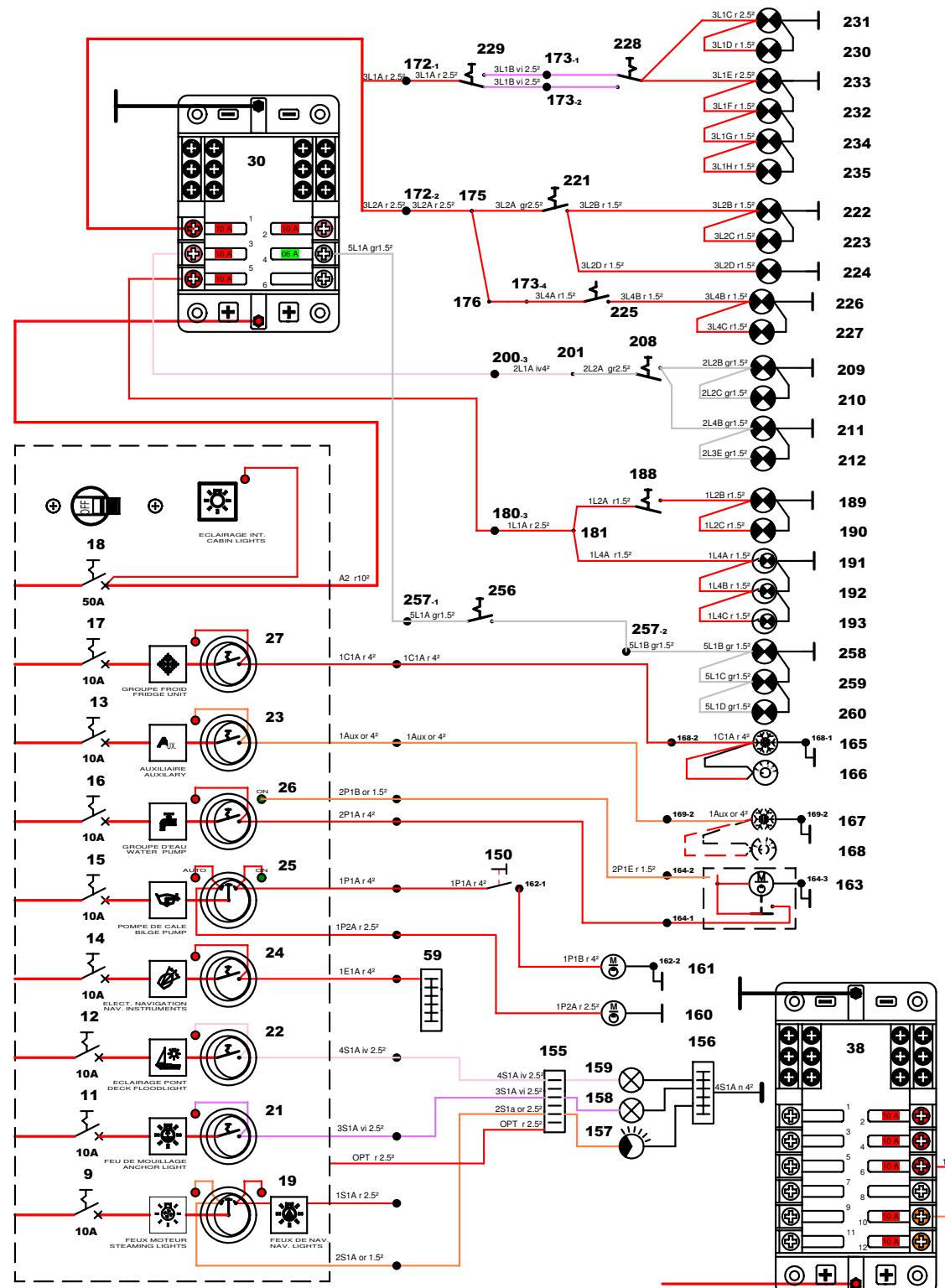
VERSION 2 CABINS



12 V DC ELECTRICAL SCHEMATIC DIAGRAM (SALOON, GALLEY)**VERSION 2 CABINS**

REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS	REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
1			Electrical panel "DC AMPS / 12 V VOLTS DC"	189	1L2B 1L2C	10W	Ceiling fitting in front catwalk
8	1F1A		12 V DC socket - Electrical panel	190	1L2C	10W	Ceiling fitting in front catwalk
9	1S1A-1S2A	10A	Breaker "Navigation light / Engine navigation light"	191	1L4A 1L4B	10W	Terminal board with card table switch Red
11	3S1A	10A	Breaker "Mooring light"	192	1L4B 1L4C	10W	Terminal board with card table switch
12	4S1A	10A	Breaker "Deck light"	193	1L4C	10W	Reading light with switch in port rear bathroom
13	OPT	10A	Breaker "Auxiliary" (Optional extra 2st Refrigeration unit)	200			4 way connector: Starboard catwalk - Hull
14	1E(1,2)A	10A	Breaker "Navigation electronics"	201	2L1A		Branch 2L..
15	1P1A-1P2A	10A	Breaker "Bilge pump"	208	2L2A/2L2B-2L4B		Starboard catwalk lighting switch
16	2P1A-2P1B-JE	10A	Breaker "Water unit"	209	2L2B 2L2C	10W	Ceiling fitting in mess room catwalk
17	1C1A	10A	Breaker "Refrigeration unit"	210	2L2C	10W	Ceiling fitting in mess room catwalk
18	A2	50A	General circuit breaker "Interior lighting"	211	2L4B 2L4C	10W	Ceiling fitting in kitchen catwalk
19			Switch "Navigation light / Engine navigation light"	212	2L4C	10W	Ceiling fitting in kitchen catwalk
21			Switch "Mooring light"	221	3L2A/3L2B		Ceiling light switch in forward cabin
22			Switch "Deck light"	222	3L2B 3L2C	10W	Ceiling fitting - forward cabin alleyway
23			Switch "Auxiliary" (Optional extra)	223	3L2C 3L2D	10W	Overhead light - starboard forward cabin
24			Switch "Navigation electronics"	224	3L2D	10W	Overhead light - port forward cabin
25			Switch "Bilge pump"	225	3L4A/3L4B		Kitchen ceiling light switch
26			Switch "Water unit"	226	3L4B 3L4C	10W	Forward galley ceiling light
27			Switch "Refrigeration unit"	227	3L4C	10W	Aft galley ceiling light
30			Electric terminal - Lighting "DC AMPS / 12 V VOLTS DC"	228			Two way switch - saloon
38			Electric terminal "DC AMPS / 12 V VOLTS DC"	229			Two way switch - saloon (Pillar)
150	2P1A		Float switch - bilge pump	230	3L1D	10W	Starboard forward saloon ceiling light
155			Terminal strip: Power supply - mast foot	231	3L1C 3L1D	10W	Starboard aft saloon ceiling light
156	4S1A		Terminal strip: Negative terminal mast foot	232	3L1F 3L1G	10W	Ceiling fitting in port mess room
157	2S1A	25W	Steaming light	233	3L1F 3L1E	10W	Port aft saloon ceiling light
158	3S1A	10W	Mooring light	234	3L1G 3L1H	10W	Overhead light - chart table
159	4S1A	35W	Deck light	235	3L1H	10W	Ceiling fitting in port mess room alleyway
160	1P2A	36W	Bilge pump "Rule"	256	5L1A/5L1B		Step light switch
161	2P1B	70W	Bilge pump	257			2 way connector: Hull system - Galley
163	2P1A	70W	Water unit	258	5L1B 5L1C		Kitchen step light
165	1C1A	60W	Refrigeration unit	259	5L1C 5L1D		Rear cabin step lighting (depending on version)
166			Thermostat - refrigeration unit	260	5L1D		Front cabin step lighting
167	Aux1		Refrigeration unit (optional extra)	270			ISO hi fi connector
168			Thermostat - refrigeration unit	271	1HF1A	50W	Hifi
169			2 way connector: Hull system - Refrigeration unit	272	ANT		Mess room hi fi electronic antenna
172			14 way connector: Deck system - Pillar	273	HP1		Speaker - port saloon
173			6 way connector: Deck pillar circuit (saloon, galley)	274	HP2		Speaker - starboard saloon
175			2 way connector: Deck pillar circuit (Forward)	275	HP3		Loudspeaker outside to port (optional extra)
176			2 way connector: Deck pillar circuit (Forward)	276	HP4		Loudspeaker outside to starboard (optional extra)
180			4 way connector: Port catwalk - Hull	282	VHF		VHF cable (Mast foot)
181	1L1A		Branch 1L..	283	VHF		VHF cable (Electrical panel)
188	1L2A/1L2B		Catwalk lighting switch in port				

VERSION 3 CABINS

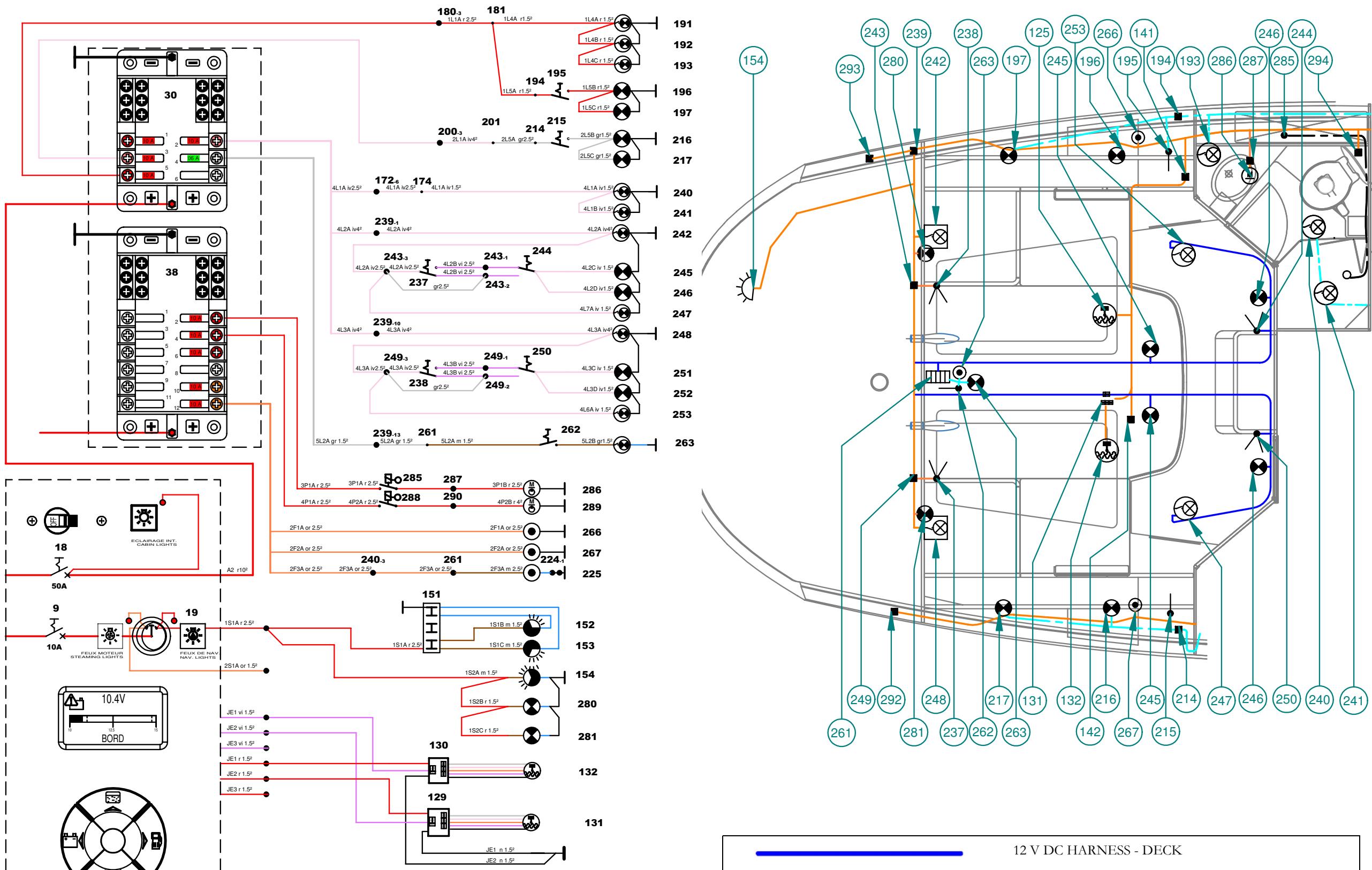


12 V DC ELECTRICAL SCHEMATIC DIAGRAM (SALOON, GALLEY)**VERSION 3 CABINS**

REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS	REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
1			Electrical panel "DC AMPS / 12 V VOLTS DC"	189	1L2B 1L2C	10W	Ceiling fitting in front catwalk
9	1S1A-1S2A	10A	Breaker "Navigation light / Engine navigation light"	190	1L2C	10W	Ceiling fitting in front catwalk
11	3S1A	10A	Breaker "Mooring light"	191	1L4A 1L4B	10W	Terminal board with card table switch Red
12	4S1A	10A	Breaker "Deck light"	192	1L4B 1L4C	10W	Terminal board with card table switch
13	OPT	10A	Breaker "Auxiliary" (Optional extra 2st Refrigeration unit)	193	1L4C	10W	Reading light with switch in port rear bathroom
14	1E(1,2)A	10A	Breaker "Navigation electronics"	200			4 way connector: Starboard catwalk - Hull
15	1P1A-1P2A	10A	Breaker "Bilge pump"	201	2L1A		Branch 2L..
16	2P1A-2P1B-JE	10A	Breaker "Water unit"	208	2L2A/2L2B-2L4B		Starboard catwalk lighting switch
17	1C1A	10A	Breaker "Refrigeration unit"	209	2L2B 2L2C	10W	Ceiling fitting in mess room catwalk
18	A2	50A	General circuit breaker "Interior lighting"	210	2L2C	10W	Ceiling fitting in mess room catwalk
19			Switch "Navigation light / Engine navigation light"	211	2L4B 2L4C	10W	Ceiling fitting in kitchen catwalk
21			Switch "Mooring light"	212	2L4C	10W	Ceiling fitting in kitchen catwalk
22			Switch "Deck light"	221	3L2A/3L2B		Ceiling light switch in forward cabin
23			Switch "Auxiliary" (Optional extra)	222	3L2B 3L2C	10W	Ceiling fitting - forward cabin alleyway
24			Switch "Navigation electronics"	223	3L2C 3L2D	10W	Overhead light - starboard forward cabin
25			Switch "Bilge pump"	224	3L2D	10W	Overhead light - port forward cabin
26			Switch "Water unit"	225	3L4A/3L4B		Kitchen ceiling light switch
27			Switch "Refrigeration unit"	226	3L4B 3L4C	10W	Forward galley ceiling light
30			Electric terminal - Lighting "DC AMPS / 12 V VOLTS DC"	227	3L4C	10W	Aft galley ceiling light
38			Electric terminal "DC AMPS / 12 V VOLTS DC"	228			Two way switch - saloon
150	2P1A		Float switch - bilge pump	229			Two way switch - saloon (Pillar)
155			Terminal strip: Power supply - mast foot	230	3L1D	10W	Starboard forward saloon ceiling light
156	4S1A		Terminal strip: Negative terminal mast foot	231	3L1C 3L1D	10W	Starboard aft saloon ceiling light
157	2S1A	25W	Steaming light	232	3L1F 3L1G	10W	Ceiling fitting in port mess room
158	3S1A	10W	Mooring light	233	3L1F 3L1E	10W	Port aft saloon ceiling light
159	4S1A	35W	Deck light	234	3L1G 3L1H	10W	Overhead light - chart table
160	1P2A	36W	Bilge pump "Rule"	235	3L1H	10W	Ceiling fitting in port mess room alleyway
161	2P1B	70W	Bilge pump	256	5L1A/5L1B		Step light switch
163	2P1A	70W	Water unit	257			2 way connector: Hull system - Galley
165	1C1A	60W	Refrigeration unit	258	5L1B 5L1C		Kitchen step light
166			Thermostat - refrigeration unit	259	5L1C 5L1D		Rear cabin step lighting (depending on version)
167	Aux1		Refrigeration unit (optional extra)	260	5L1D		Front cabin step lighting
168			Thermostat - refrigeration unit	270			ISO hi fi connector
169			2 way connector: Hull system - Refrigeration unit	271	1HF1A	50W	Hifi
172			14 way connector: Deck system - Pillar	272	ANT		Mess room hi fi electronic antenna
173			6 way connector: Deck pillar circuit (saloon, galley)	273	HP1		Speaker - port saloon
175			2 way connector: Deck pillar circuit (Forward)	274	HP2		Speaker - starboard saloon
176			2 way connector: Deck pillar circuit (Forward)	275	HP3		Loudspeaker outside to port (optional extra)
180			4 way connector: Port catwalk - Hull	276	HP4		Loudspeaker outside to starboard (optional extra)
181	1L1A		Branch 1L..	282	VHF		VHF cable (Mast foot)
188	1L2A/1L2B		Catwalk lighting switch in port	283	VHF		VHF cable (Electrical panel)

12 V DC ELECTRICAL SCHEMATIC DIAGRAM (AFT CABIN)

VERSION 2 CABINS



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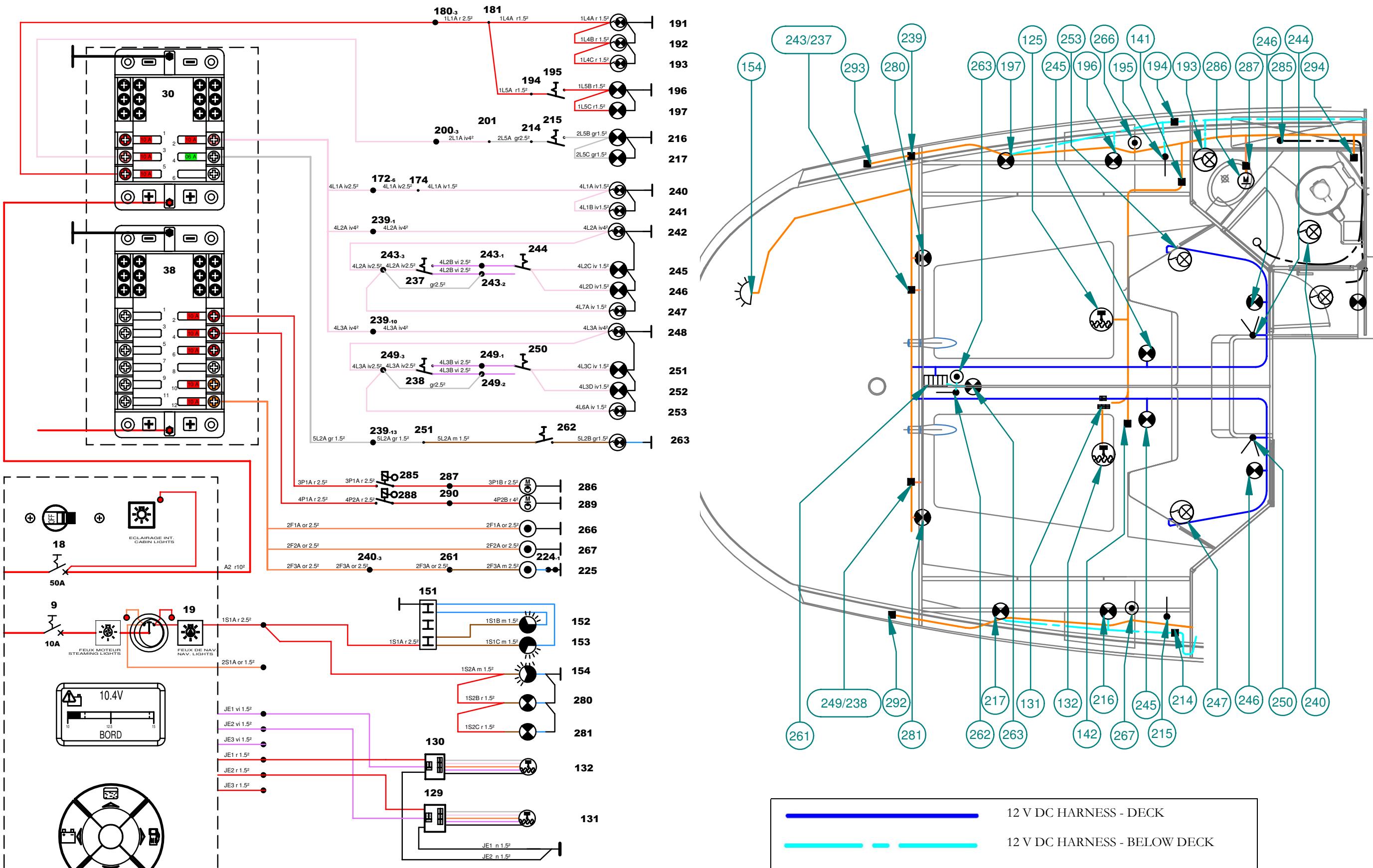
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ELECTRICITY

12 V DC ELECTRICAL SCHEMATIC DIAGRAM (AFT CABIN)**VERSION 2 CABINS**

REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS	REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
9	1S1A-1S2A	10A	Breaker "Navigation light / Engine navigation light"	237			Starboard shunt / Three-way switch in owner rear cabin
18	A2	50A	General circuit breaker "Interior lighting"	238			SHUNT To port / Three-way switch in owner rear cabin
19			Switch "Navigation light / Engine navigation light"	239			14 way connector: Deck inner moulding system - Hull
30			Electric terminal - Lighting "DC AMPS / 12 V VOLTS DC"	240	4L1A 4L1B	5W	Overhead light - port AFT head
38			Electric terminal "DC AMPS / 12 V VOLTS DC"	241	4L1B	5W	Overhead light - port AFT head
125	JF1		Fuel oil gauge transmitter	242		25W	Lamp - starboard AFT cabin (owner version)
129	JE2		Control box - forward tank water level	243			3 way connector: Deck inner moulding system - Rear cabin switch
130	JE1		Control box - aft tank water level	244			Two-way switch in starboard rear cabin
131			Front tank meter	245		10W	Ceiling fitting in center of port rear cabin
132			Rear tank meter	246		10W	Overhead light - starboard aft cabin
141			14 way connector: Engine system - Hull system	247		5W	Ceiling fitting with switch in port rear cabin
142			2 way connector: Engine system - Fuel oil tank Optional extra	248		25W	Lamp - port AFT cabin (owner version)
151	1S1A		Terminal strip: Forward navigation lights	249			3 way connector: Deck inner moulding system - Rear cabin switch
152	1S1B	25W	Navigation light - forward port	250			Two-way switch in port rear cabin
153	1S1C	25W	Navigation light - forward starboard	251		10W	Ceiling fitting in center of rear port cabin
154	1S2A	10W	Stern light	252		10W	Overhead light - port aft cabin
172			14 way connector: Deck system - Pillar	253		5W	Ceiling fitting with switch in rear port cabin
174			3 way connector: Deck pillar circuit (Aft)	261			Terminal strip: Cockpit table power supply
180			4 way connector: Port catwalk - Hull	262	5L2A		Switch of cockpit table light
181	1L1A		Branch 1L..	263	5L2B	10W	Light - cockpit table
191	1L4A 1L4B	10W	Terminal board with card table switch Red	266	2F1A		12V DC intake of rear port cabin
192	1L4B 1L4C	10W	Terminal board with card table switch	267	2F2A		12V DC intake of rear starboard cabin
193	1L4C	10W	Reading light with switch in port rear bathroom	280	1S2B 1S2C	2W	Port compass lighting
194	1L5A		2 way connector: Port catwalk - Aft cabin	281	1S2C	2W	Starboard compass lighting
195	1L5A/1L5B		Lighting switch in port rear cabin catwalk	285	3P1A-3P1B		Shower pump switch - port AFT head
196	1L5B 1L5C	10W	Ceiling fitting in port rear cabin catwalk	286	3P1B	70W	Shower pump - port AFT head
197	1L5C	10W	Ceiling fitting in port rear cabin catwalk	287			2 way connector: Hull system - Inter circuit of rear port hand spray
200			4 way connector: Starboard catwalk - Hull	288	4P1A-4P1B		Switch - shower pump - starboard FWD head
201	2L1A		Branch 2L..	289	4P1B	70W	Bilge pump - starboard forward head
214	2L5A		2 way connector: Port catwalk - Aft cabin	290			2 way connector: Hull system - Starboard forward shower pump system
215	2L5A/2L5B		Lighting switch in port rear cabin catwalk	292	GAZ		Gas solenoid valve pre-cabling
216	2L5B 2L5C	10W	Ceiling fitting in port rear cabin catwalk	293			6 way connector: Hull system - Engine panel
217	2L5C	10W	Ceiling fitting in port rear cabin catwalk	294			Supply Electric toilet (optional extra)
225	3L4A/3L4B		Kitchen ceiling light switch				

VERSION 3 CABINS



12 V DC ELECTRICAL SCHEMATIC DIAGRAM (AFT CABIN)**VERSION 3 CABINS**

REFERENC E ON DIAGRAM	WIRE REFERENC E	AMPERAGE OR WATTAGE	FUNCTIONS	REFERENC E ON DIAGRAM	WIRE REFERENC E	AMPERAGE OR WATTAGE	FUNCTIONS
9	1S1A-1S2A	10A	Breaker "Navigation light / Engine navigation light"	225	3L4A/3L4B		Kitchen ceiling light switch
18	A2	50A	General circuit breaker "Interior lighting"	237			Starboard shunt / Three-way switch in owner rear cabin
19			Switch "Navigation light / Engine navigation light"	238			SHUNT To port / Three-way switch in owner rear cabin
30			Electric terminal - Lighting "DC AMPS / 12 V VOLTS DC"	239			14 way connector: Deck inner moulding system - Hull
38			Electric terminal "DC AMPS / 12 V VOLTS DC"	240	4L1A 4L1B	5W	Overhead light - port AFT head
125	JF1		Fuel oil gauge transmitter	241	4L1B	5W	Overhead light - port AFT head
129	JE2		Control box - forward tank water level	242		25W	Lamp - starboard AFT cabin (owner version)
130	JE1		Control box - aft tank water level	243			3 way connector: Deck inner moulding system - Rear cabin switch
131			Front tank meter	244			Two-way switch in starboard rear cabin
132			Rear tank meter	245		10W	Ceiling fitting in center of port rear cabin
141			14 way connector: Engine system - Hull system	246		10W	Overhead light - starboard aft cabin
142			2 way connector: Engine system - Fuel oil tank Optional extra	247		5W	Ceiling fitting with switch in port rear cabin
151	1S1A		Terminal strip: Forward navigation lights	248		25W	Lamp - port AFT cabin (owner version)
152	1S1B	25W	Navigation light - forward port	249			3 way connector: Deck inner moulding system - Rear cabin switch
153	1S1C	25W	Navigation light - forward starboard	250			Two-way switch in port rear cabin
154	1S2A	10W	Stern light	251		10W	Ceiling fitting in center of rear port cabin
172			14 way connector: Deck system - Pillar	252		10W	Overhead light - port aft cabin
174			3 way connector: Deck pillar circuit (Aft)	253		5W	Ceiling fitting with switch in rear port cabin
180			4 way connector: Port catwalk - Hull	261			Terminal strip: Cockpit table power supply
181	1L1A		Branch 1L..	262	5L2A		Switch of cockpit table light
191	1L4A 1L4B	10W	Terminal board with card table switch Red	263	5L2B	10W	Light - cockpit table
192	1L4B 1L4C	10W	Terminal board with card table switch	266	2F1A		12V DC intake of rear port cabin
193	1L4C	10W	Reading light with switch in port rear bathroom	267	2F2A		12V DC intake of rear starboard cabin
194	1L5A		2 way connector: Port catwalk - Aft cabin	280	1S2B 1S2C	2W	Port compass lighting
195	1L5A/1L5B		Lighting switch in port rear cabin catwalk	281	1S2C	2W	Starboard compass lighting
196	1L5B 1L5C	10W	Ceiling fitting in port rear cabin catwalk	285	3P1A-3P1B		Shower pump switch - port AFT head
197	1L5C	10W	Ceiling fitting in port rear cabin catwalk	286	3P1B	70W	Shower pump - port AFT head
200			4 way connector: Starboard catwalk - Hull	287			2 way connector: Hull system - Inter circuit of rear port hand spray
201	2L1A		Branch 2L..	288	4P1A-4P1B		Switch - shower pump - starboard FWD head
214	2L5A		2 way connector: Port catwalk - Aft cabin	289	4P1B	70W	Bilge pump - starboard forward head
215	2L5A/2L5B		Lighting switch in port rear cabin catwalk	290			2 way connector: Hull system - Starboard forward shower pump system
216	2L5B 2L5C	10W	Ceiling fitting in port rear cabin catwalk	292	GAZ		Gas solenoid valve pre-cabling
217	2L5C	10W	Ceiling fitting in port rear cabin catwalk	293			6 way connector: Hull system - Engine panel
224	3L2D	10W	Overhead light - port forward cabin	294			Supply Electric toilet (optional extra)

ELECTRICAL SUMMARY 12V DC SUN ODYSSEY 45DS

CONSUMERS FOR THE MOTOR BATTERY	Consumption in W	Daily use in H.mn.s	Daily consumption in A/H
Electric windlass	1000	0.20	27.78
Engine starter	3500	0.02	9.72
			0.00
			0.00
Total stock Engine			38 A/H

ELECTRICAL SUMMARY 12V DC SUN ODYSSEY 45DS

* The park battery Standard: House = **330 A/H** Engine = **110 A/H**

* The park battery Optional extra: House +
Optional extra = **440 A/H**

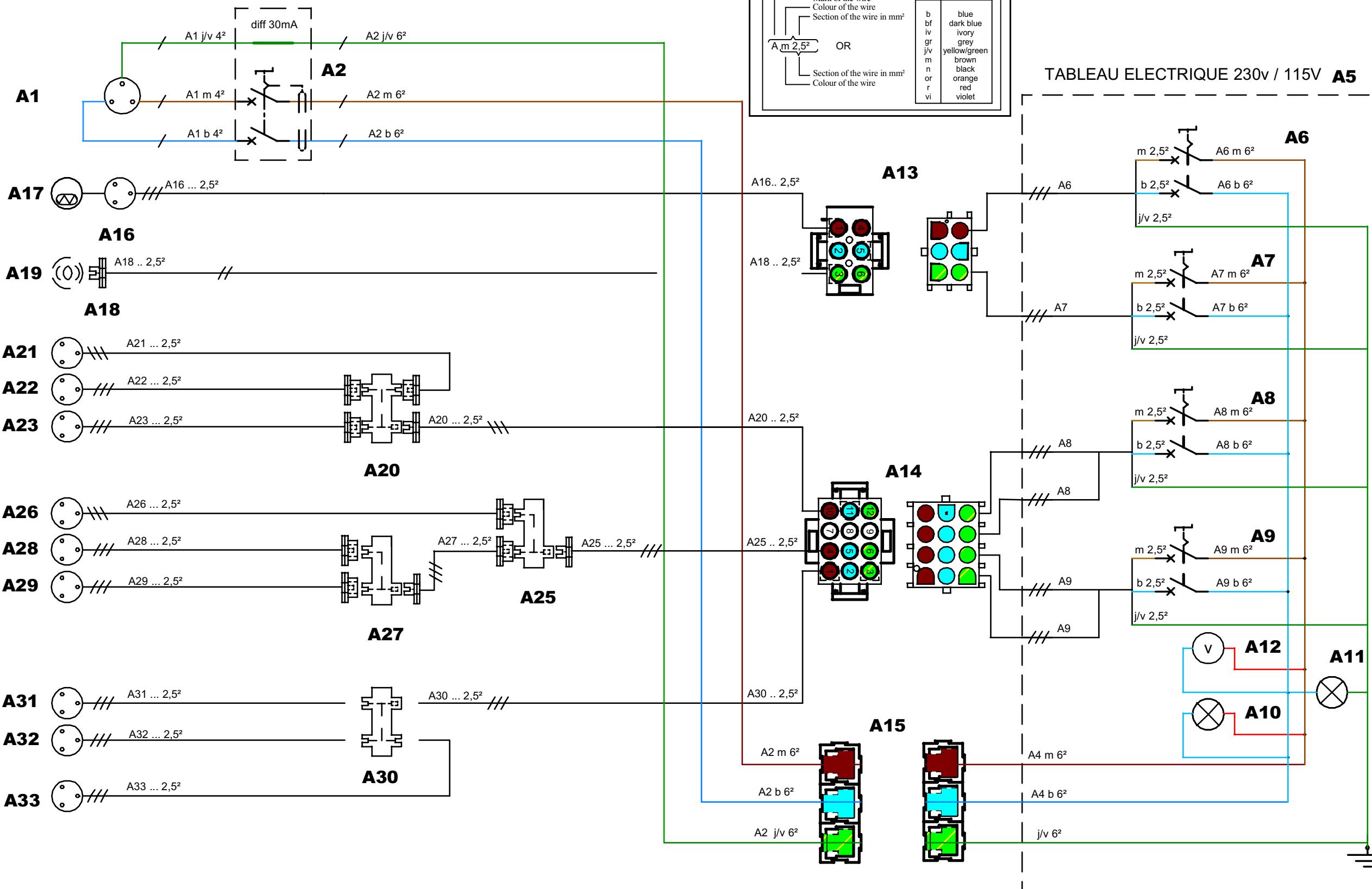
* The consumption journalire of: House stock = 142 A/H Engine stock = 38 A/H

* The consumption journalire of: House stock = Engine stock =

* The consumption journalire of:	House + Optional extra =	32 %
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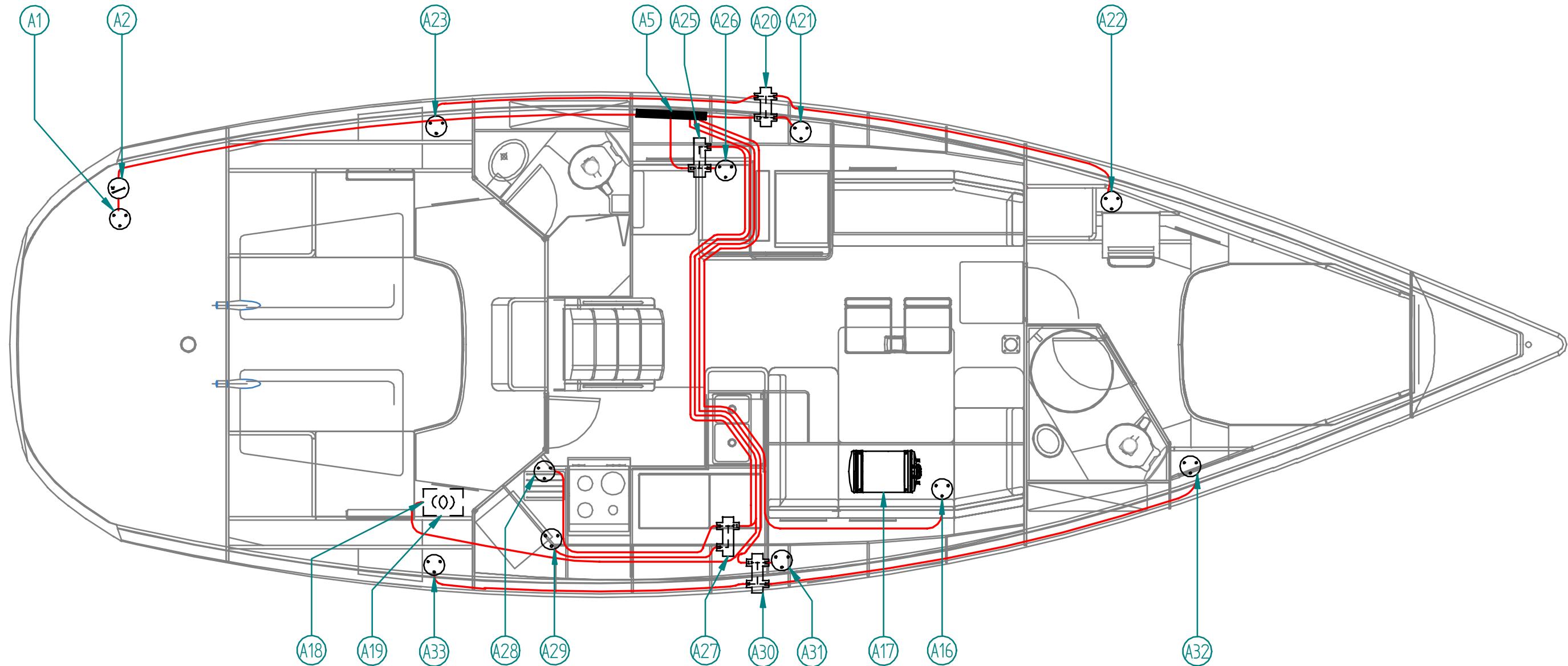
* The park battery propeller:

* The load of parks batteries edge and engine is assured by a minimum alternator of 80 A/H



230 V AC ELECTRICAL SCHEMATIC DIAGRAM

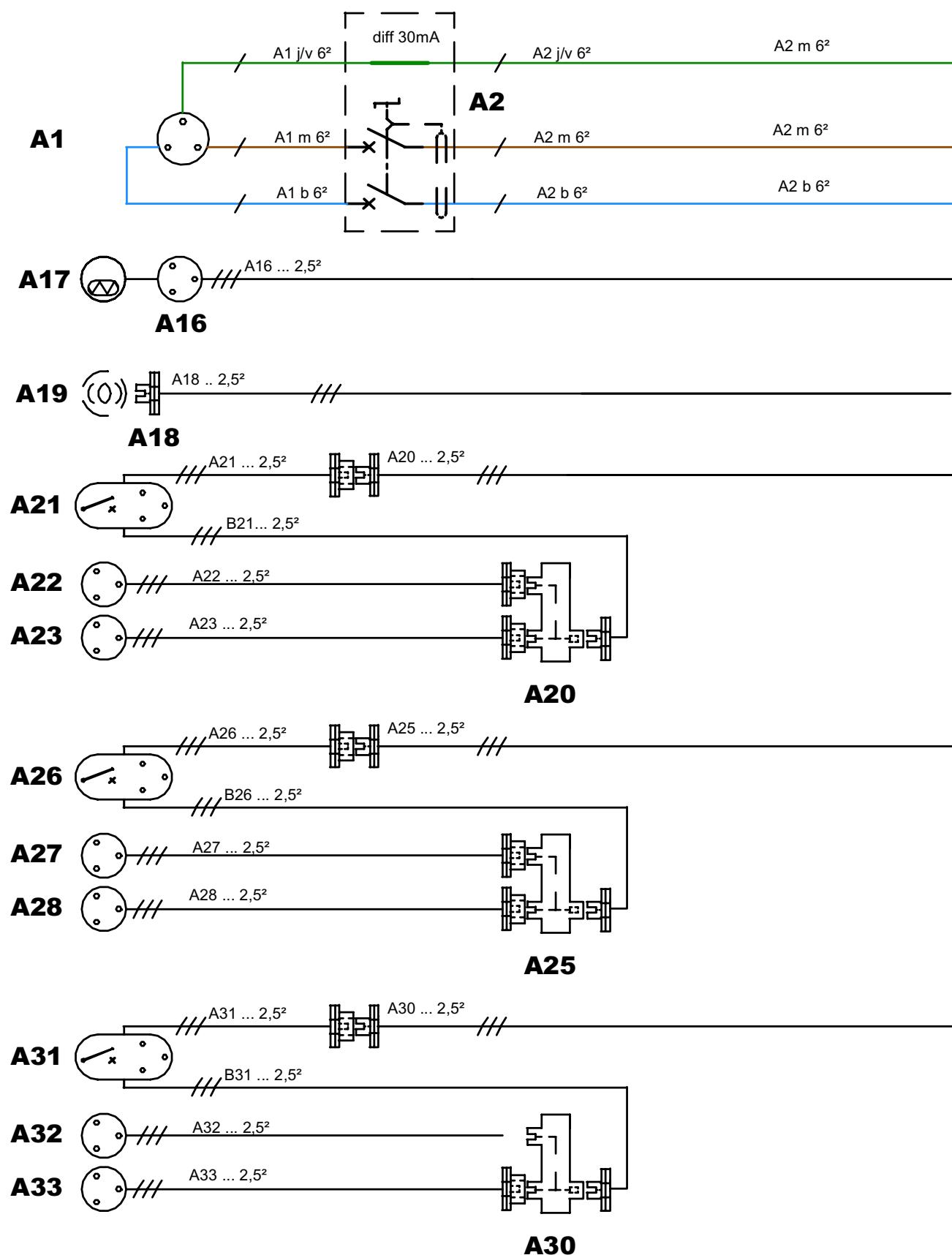
REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
A1	A1	16A /32A	Shore power
A2	A2	16A/32A-30mA	Differential circuit breaker
A7	A7	15A	Bipolar circuit breaker "Battery charger"
A9	A9	15A	Bipolar circuit breaker "AC sockets"
A10	A10		Live shore power line warning light - "Shore Power"
A11	A11	115v AC	Warning light - reversal of polarity
A12	A12	0-300v AC	Voltmeter
A13	A13		Connector "water heater charger"
A14	A14		Connector "sockets"
A15	A15		Connector panel supply
A16	A16		Socket for water heater
A17	A17		Water heater
A18	A18		Loader connector
A19	A19	60A	Charger (optional extra)
A20	A20		Card table connector 1
A21	A21		Port mess room outlet (differential in 115 V)
A22	A22		Socket - port forward cabin
A23	A23		Socket - port aft cabin
A25	A25		Card table connector 2
A26	A26		Socket - chart table (differential in 115 V)
A27	A27		Starboard connector 2
A28	A28		Socket - galley
A29	A29		Socket for micro-wave oven
A30	A30		Starboard connector 1
A31	A31		Starboard mess room outlet (differential in 115 V)
A32	A32		Forward starboard cabin socket
A33	A33		Socket - starboard aft cabin



ELECTRICITY

230 V AC ELECTRICAL PASSAGE

REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
A1	A1	16A /32A	Shore power
A2	A2	16A/32A-30mA	Differential circuit breaker
A5	A5		Electrical panel 230V AC
A16	A16		Socket for water heater
A17	A17		Water heater
A18	A18		Loader connector
A19	A19	60A	Charger (optional extra)
A20	A20		Card table connector 1
A21	A21		Port mess room outlet (differential in 115 V)
A22	A22		Socket - port forward cabin
A23	A23		Socket - port aft cabin
A25	A25		Card table connector 2
A26	A26		Socket - chart table (differential in 115 V)
A27	A27		Starboard connector 2
A28	A28		Socket - galley
A29	A29		Socket for micro-wave oven
A30	A30		Starboard connector 1
A31	A31		Starboard mess room outlet (differential in 115 V)
A32	A32		Forward starboard cabin socket
A33	A33		Socket - starboard aft cabin

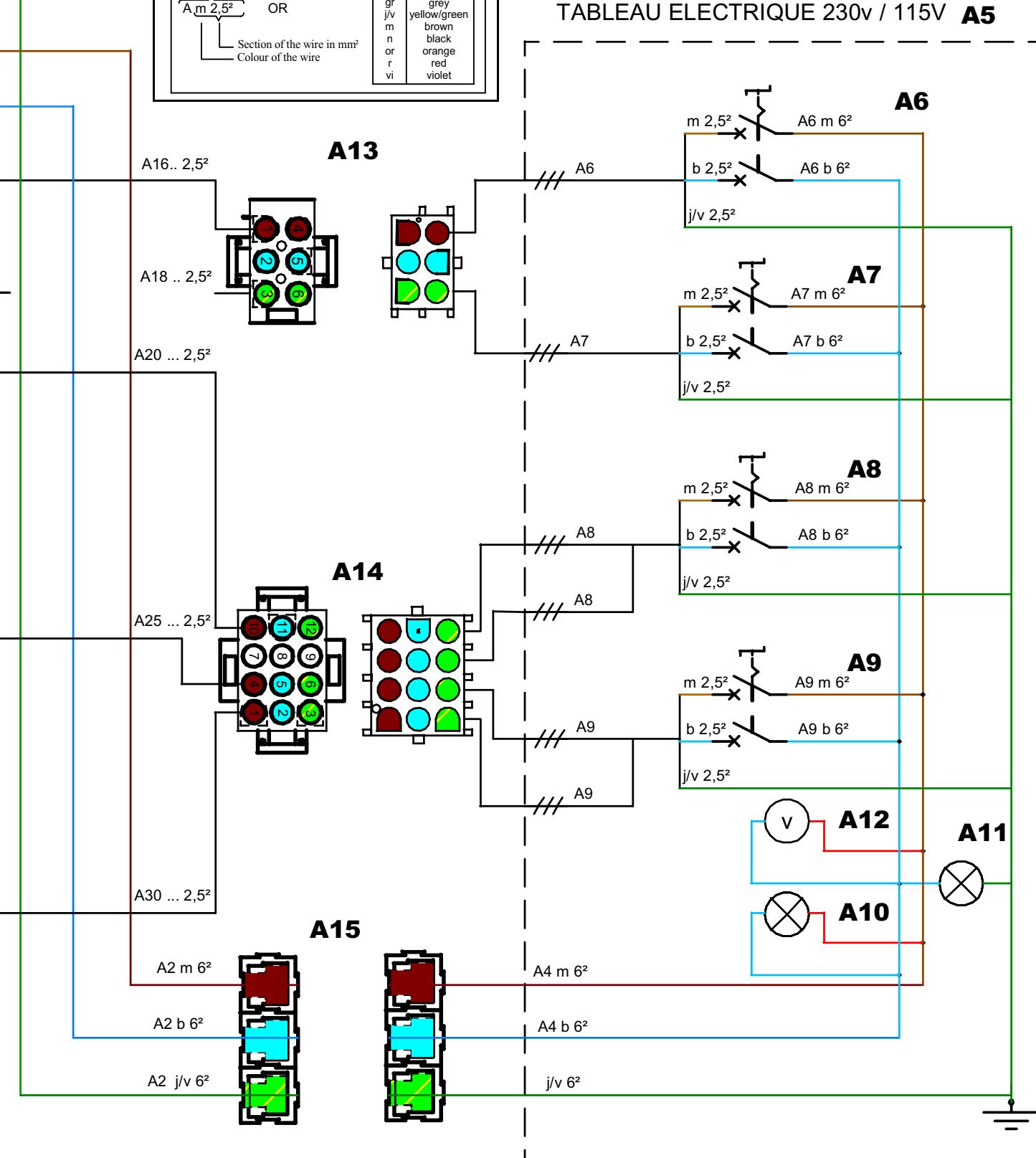


References of the wires		
Mark of the wire	Colour of the wire	Section of the wire in mm ²
A m 2,5 ²	blue	2,5
b	dark blue	
bf	ivory	
iv	grey	
gr	yellow/green	
j/v	brown	
m	black	
n	orange	
or	red	
r	violet	
vi		

OR

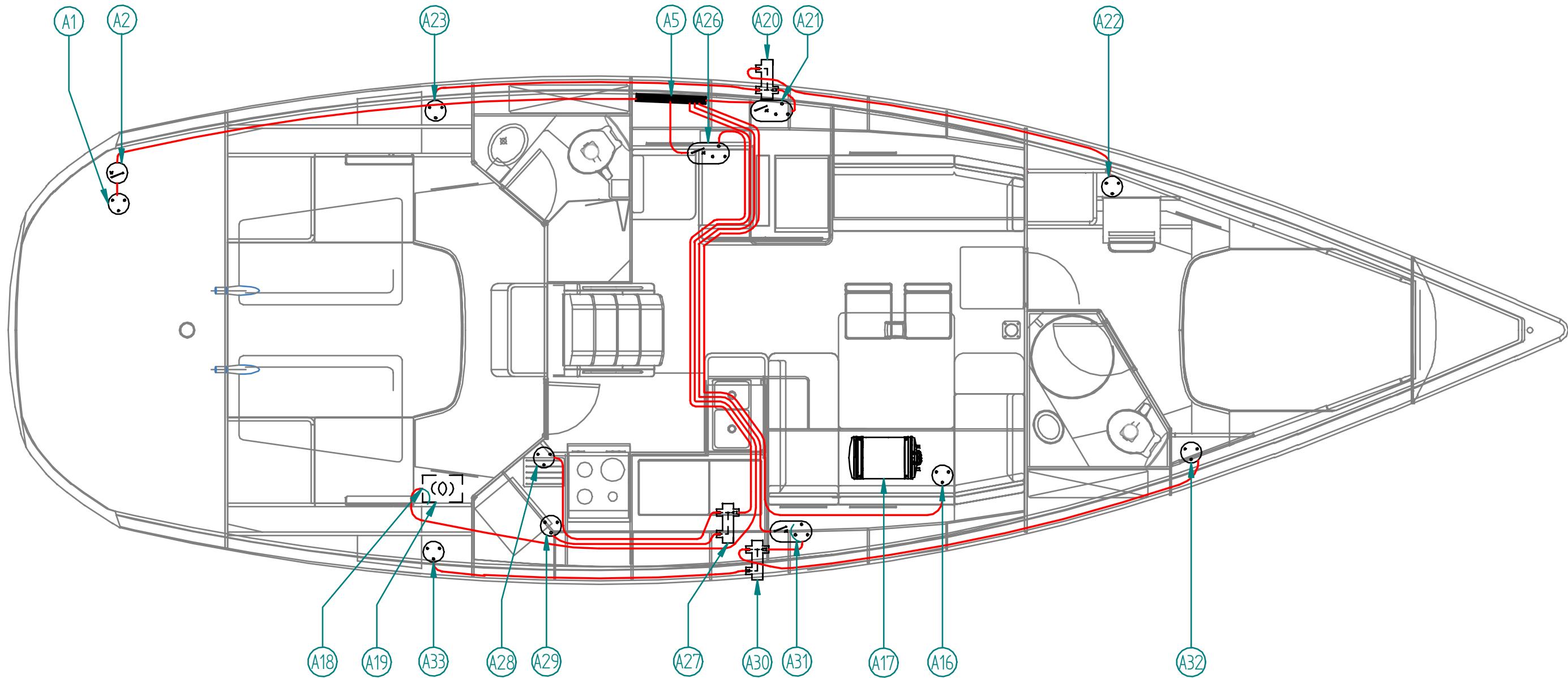
Section of the wire in mm²

Colour of the wire



115 V AC ELECTRICAL SCHEMATIC DIAGRAM

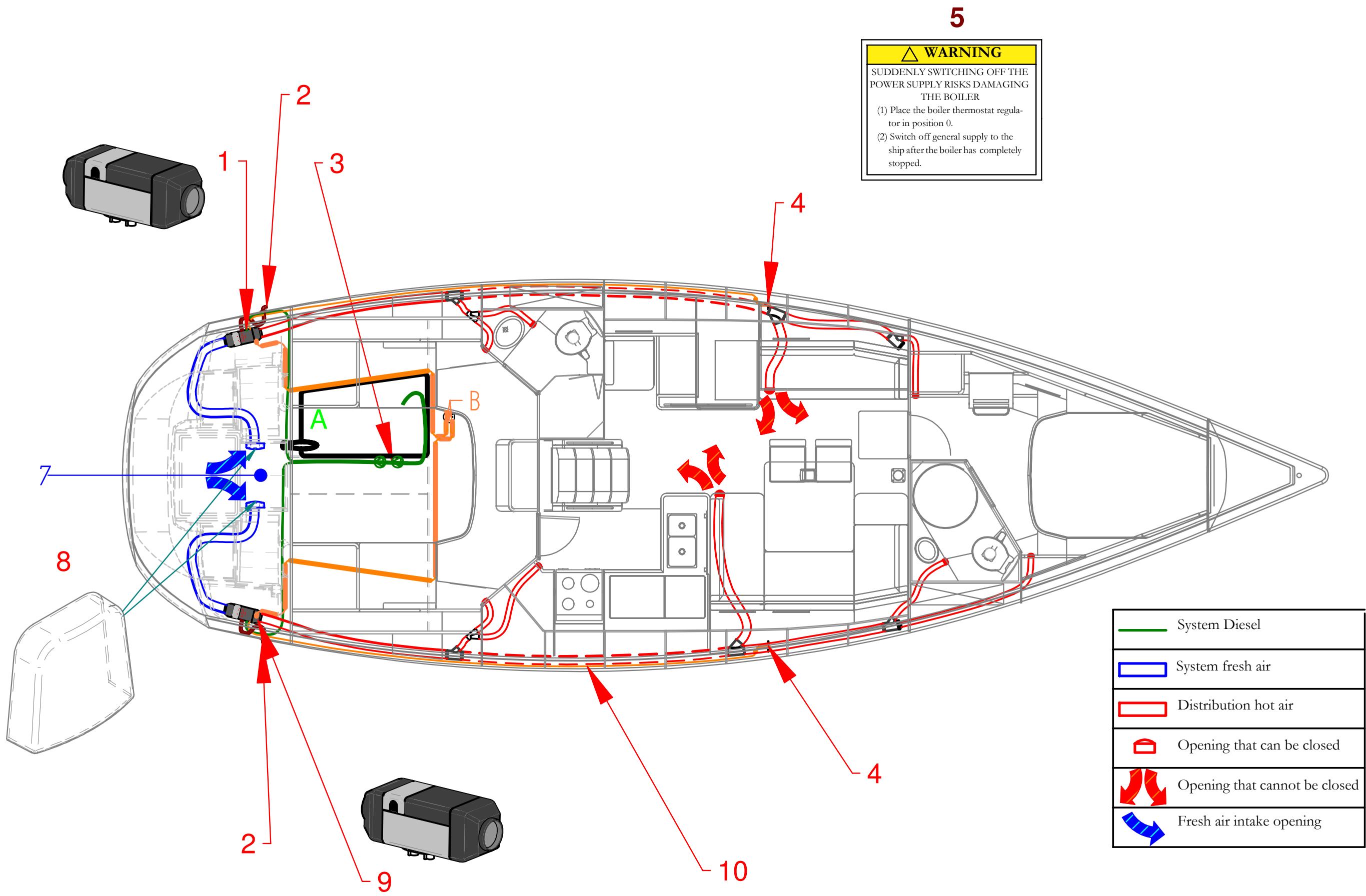
REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
A1	A1	16A /32A	Shore power
A2	A2	16A/32A-30mA	Differential circuit breaker
A5	A5		Electrical panel 230V AC
A6	A6	15A	Bipolar circuit breaker "Water heater"
A7	A7	15A	Bipolar circuit breaker "Battery charger"
A8	A8	15A	Bipolar circuit breaker "AC sockets"
A9	A9	15A	Bipolar circuit breaker "AC sockets"
A10	A10		Live shore power line warning light - "Shore Power"
A11	A11	115V AC	Warning light - reversal of polarity
A12	A12	0-300V AC	Voltmeter
A13	A13		Connector "water heater charger"
A14	A14		Connector "sockets"
A15	A15		Connector panel supply
A16	A16		Socket for water heater
A17	A17		Water heater
A18	A18		Loader connector
A19	A19	60A	Charger (optional extra)
A20	A20		Card table connector 1
A21	A21		Port mess room outlet (differential in 115 V)
A22	A22		Socket - port forward cabin
A23	A23		Socket - port aft cabin
A25	A25		Card table connector 2
A26	A26		Socket - chart table (differential in 115 V)
A27	A27		Starboard connector 2
A28	A28		Socket - galley
A30	A30		Starboard connector 1
A31	A31		Starboard mess room outlet (differential in 115 V)
A32	A32		Forward starboard cabin socket
A33	A33		Socket - starboard aft cabin



115 V AC ELECTRICAL PASSAGE

REFERENCE ON DIAGRAM	WIRE REFERENCE	AMPERAGE OR WATTAGE	FUNCTIONS
A1	A1	16A /32A	Shore power
A2	A2	16A/32A-30mA	Differential circuit breaker
A5	A5		Electrical panel 230V AC
A16	A16		Socket for water heater
A17	A17		Water heater
A18	A18		Loader connector
A19	A19	60A	Charger (optional extra)
A20	A20		Card table connector 1
A21	A21		Port mess room outlet (differential in 115 V)
A22	A22		Socket - port forward cabin
A23	A23		Socket - port aft cabin
A26	A26		Socket - chart table (differential in 115 V)
A27	A27		Starboard connector 2
A28	A28		Socket - galley
A29	A29		Socket for micro-wave oven
A30	A30		Starboard connector 1
A31	A31		Starboard mess room outlet (differential in 115 V)
A32	A32		Forward starboard cabin socket
A33	A33		Socket - starboard aft cabin

VERSION 2 CABINS 2 WASHROOMS

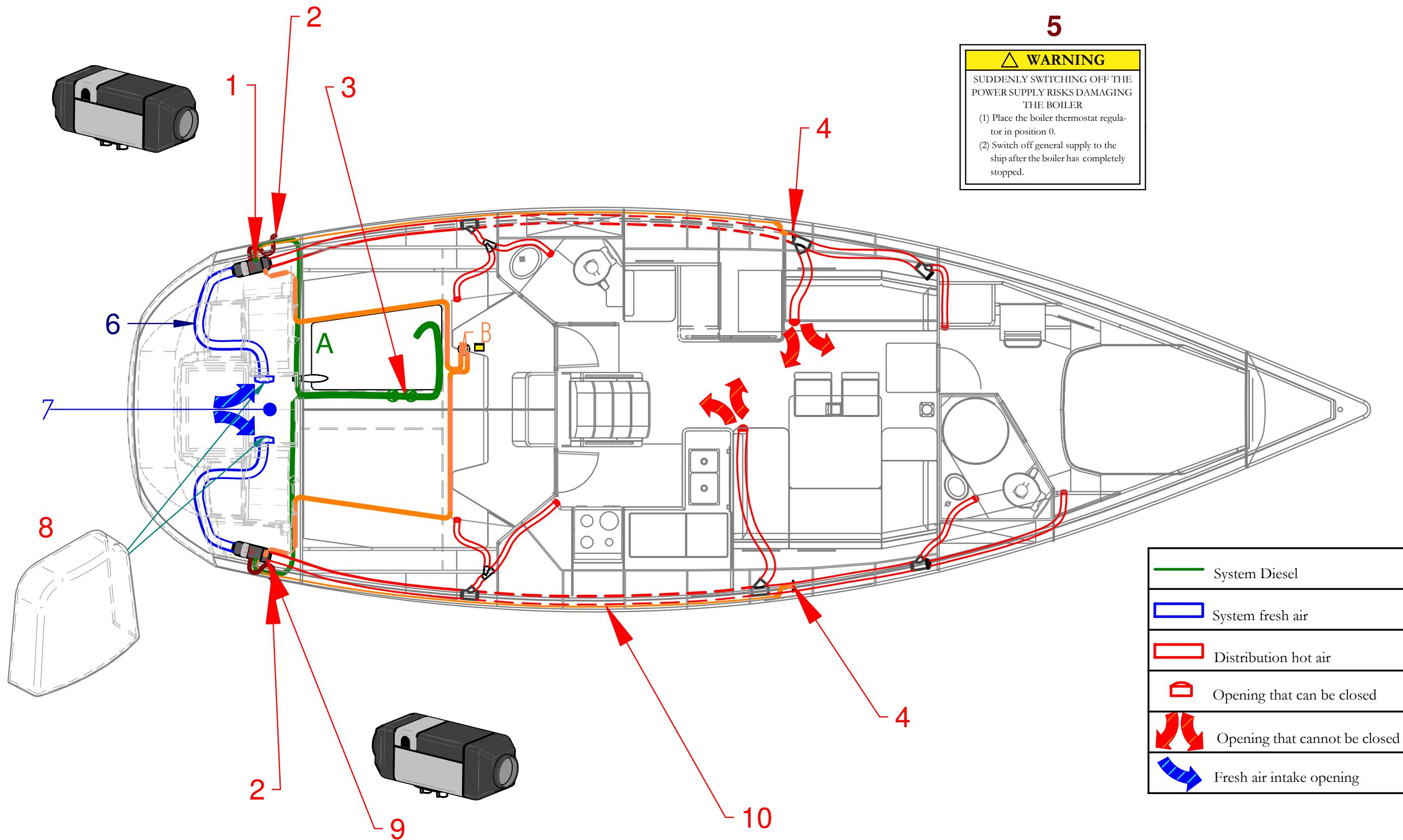


HEATING FUEL - PULSED AIR**VERSION 2 CABINS 2 WASHROOMS**

REFERENCE ON DIAGRAM	FUNCTIONS
1	Boiler - Pulsed air - 3500 W
2	Outlet
3	Electric pumps + Filters
4	Control box
5	Label (near battery switches)
6	Intake wire run
7	Ventilations
8	Air intakes
9	Boiler - Pulsed air - 5000 W
10	Cable harness

REFERENCE ON DIAGRAM	FUNCTIONS
A	Diesel tank
B	Fuses

VERSION 3 CABINS 2 WASHROOMS



HEATING FUEL - PULSED AIR**VERSION 3 CABINS 2 WASHROOMS**

REFERENCE ON DIAGRAM	FUNCTIONS
1	Boiler - Pulsed air - 3500 W
2	Outlet
3	Electric pumps + Filters
4	Control box
5	Label (near battery switches)
6	Intake wire run
7	Ventilations
8	Air intakes
9	Boiler - Pulsed air - 5000 W
10	Cable harness

REFERENCE ON DIAGRAM	FUNCTIONS
A	Diesel tank
B	Fuses