Owner's Manual

Sailboat BobALou

SAILBOAT BOBALOU

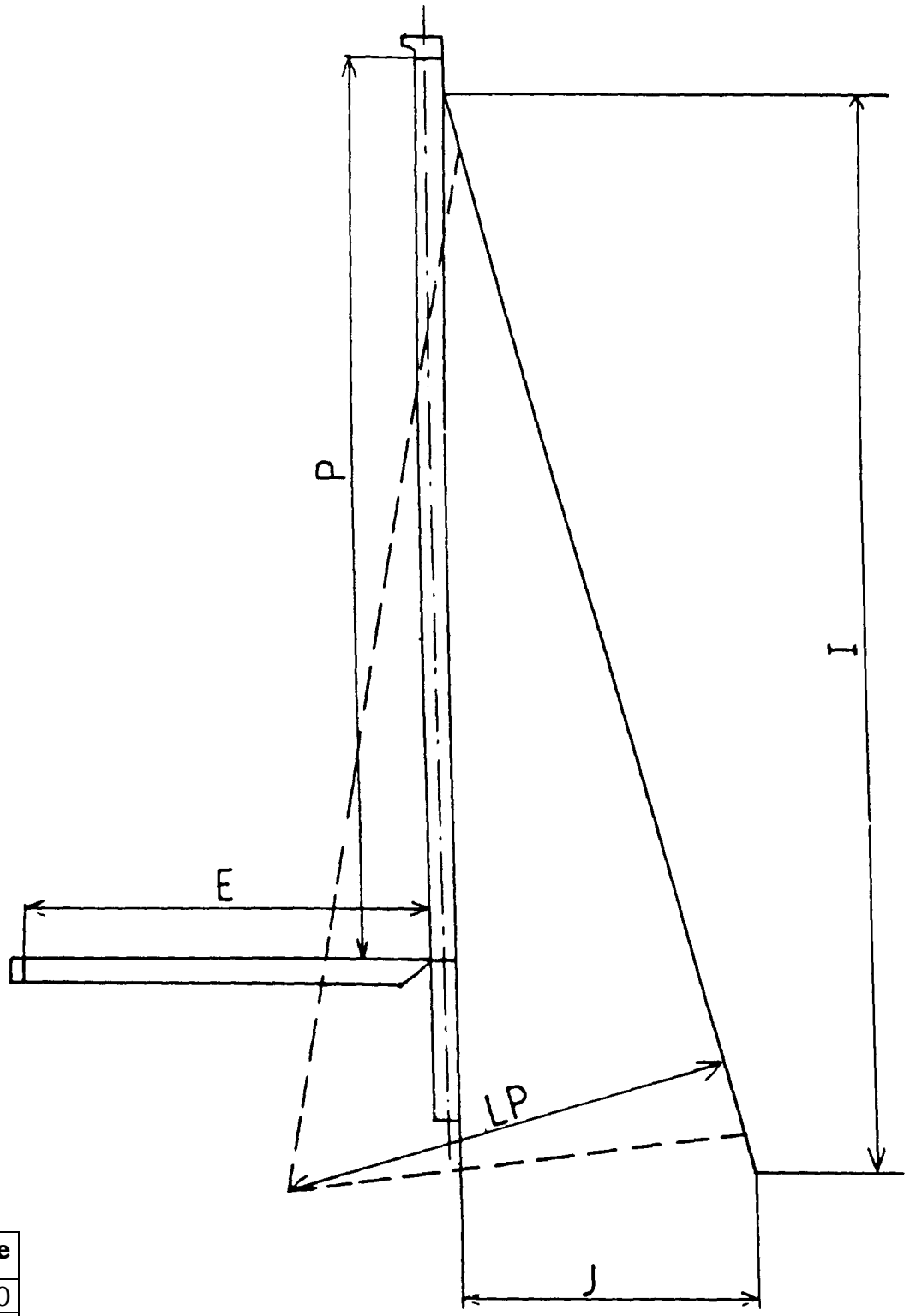
Owner’s Manual

Specifications

Length Overall		11.70 m	38.39 ft
Length at Waterline		10.30 m	33.79 ft
Maximum Beam		3.79 m	12.43 ft
Draught	**Winged**	1.57 m	
	Deep	1.90 m	
	Lead	2.10 m	6.89 ft
Standard Air Draught (empty)		17.60 m	57.75 ft
Weight (Displacement)		6,500 kg	14,330 lbs
Ballast (Keel)	**Winged**	2,100 kg	
	Deep	2,070 kg	
	Lead	1,980 kg	4,365 lbs
Maximum Engine Power		36.50 kw	49 HP
Water Capacity	**Port**	180 l	47.50 gal
	Starboard	190 l	50.25 gal
Ice Box		110 l	39.06 gal
Fuel Capacity		115 l	29 gal
S/L Ratio			5.81
Hull Speed (Traditional)			7.79 kts
D/L Ratio			165.82
D/L Multiplier			1.68
Maximum Theoretical Hull Speed			9.77 kts

Requested Category	1-ST (French Merchant Marine Approval)
Number of Authorized Persons	8 (1-ST Category)

Sail and Spar Dimensions



	7/8e		
P	14600		
E	4700		
I	14370	**SMW**	7.65
J	3900	**SL**	14.25
LP	5850	**SPL**	4.25

Tuning Mast and Rig

As for all performance oriented boats, the **FIRST 38 s 5**, is very sensitive to the trimming of the sails.

It is essential to remember that with a fractional rig, the large mainsail provides most of the drive, and the postioning of the mainsheet traveller is critical.

In light winds one may ''travel to wiather''. As soon as the wind becomes stronger, one should position the mainsheet traveller to leeward to achieve a well-balanced boat.

When the flow of air from the foresail over the mainsail backwinds, it then becomes necessary to reef.

It is recommended to reef main first so that the genoa provides the drive to go through the chop.

Reduction of sail area (indicative data)

0 - 15 knots	Medium Genoa	Full main
15 - 20 knots	Medium or	Full main
	Intermediate genoa	Main, one reef
20 - 25 knots	Intermédiate genoa	Main, one reef
25 - 30 knots	Solent	Main, one reef
30 - 35 knots	Solent	Main, two reefs
35 - 40 Knots	Jib number 4	Main, two reefs
	Or storm jib	Three reefs

Particulars of the Rig

Three major characteristics on the FIRST 38 ^{S} 5 are :

1 - Rod rigging
2 - Aft swept spreaders
3 - Discontinuous rigging without running backstays.

Rod rigging has little stretch and efficiently supports the mast. Because of the angled spreaders tension on the forestay should be achieved by applying a high tension to the capshrouds. The upper shourds need to be tightened more than usual. The lower shrouds control the amount of bend required in the lower section of the mast. The backstay controls the bend in the upper section.

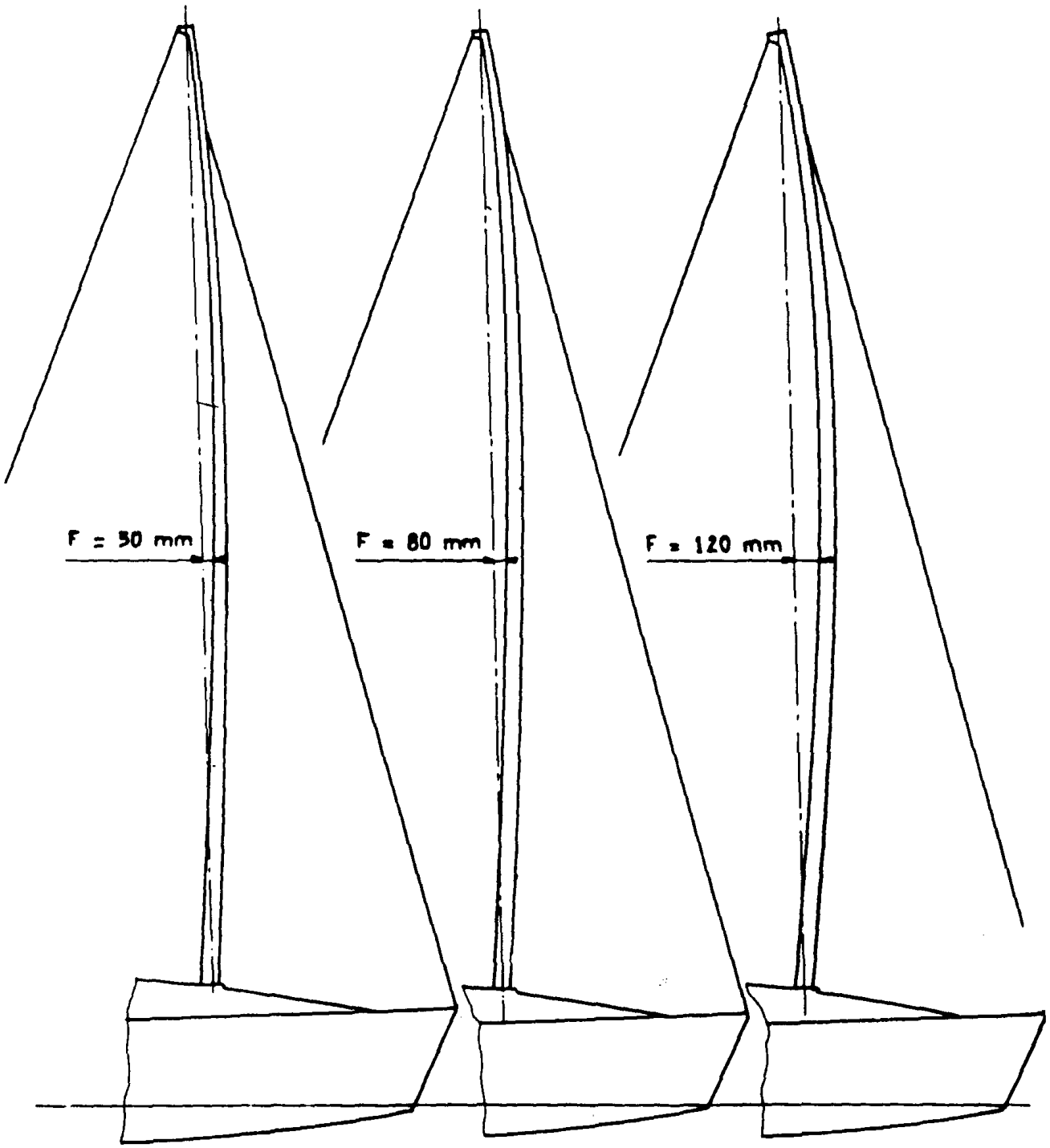
In the static position with no tension on the backstay, a small amount of pre-bend should be introduced.

Tuning the mast

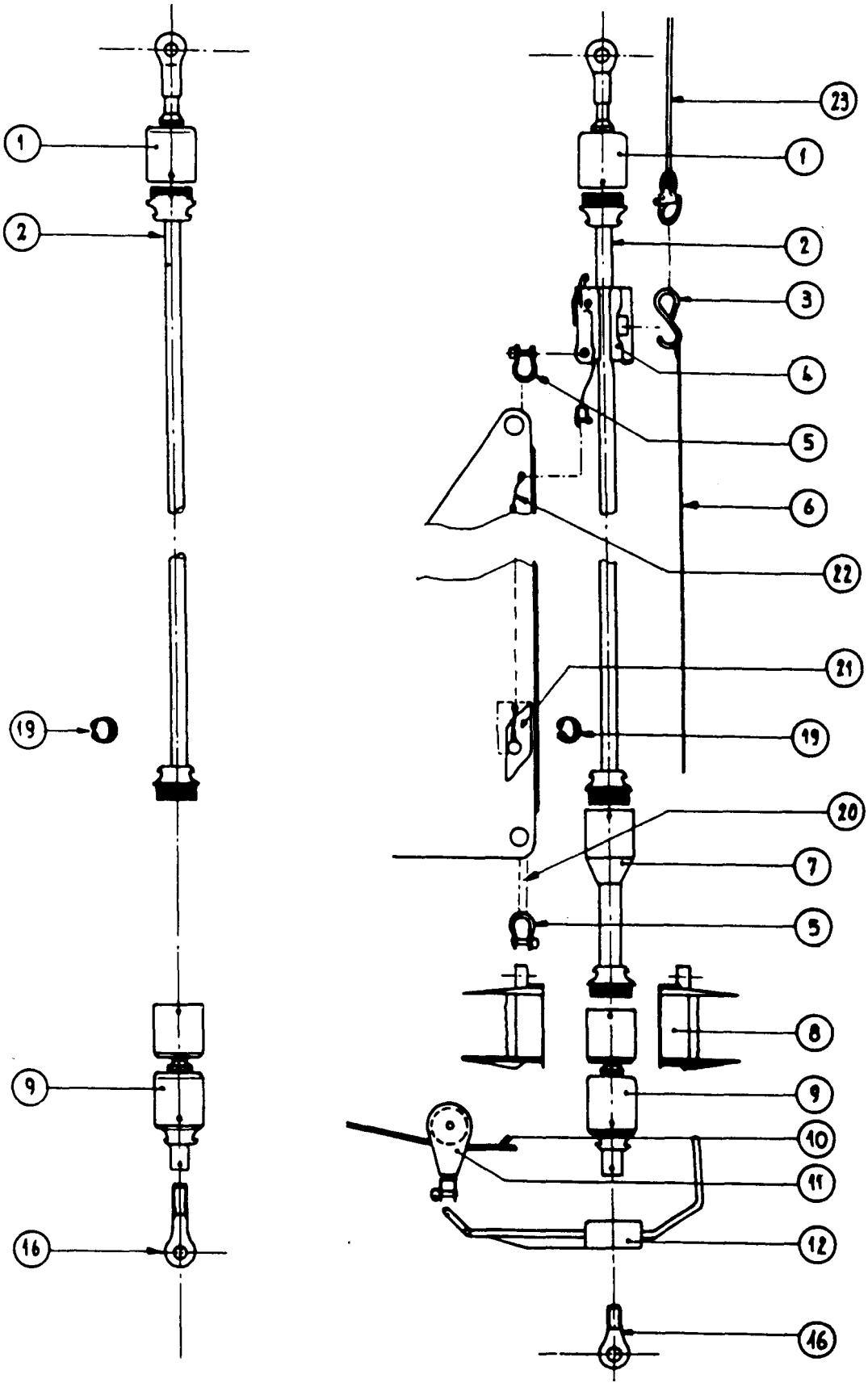
Note : before stepping, ensure that the holes for pins are facing bottlescrew holes so that a minimum of thread is engaged.

- The forestay turnbuckle must be threaded in half way.
- Intermidiate shroud turnbuckles should be fully extended. On a fractional rig, one should not be tighten the capshrouds if the intermediates are already tight.
- Without tightening the lower shrouds, adjust them so as to maintain the mast in a straight lateral position.
- Tighten the capshrouds as much as possible so as to properly tension the forestay. The mast must bend forward.
- Slightly tighten the intermediates, just enough to achieve a straight mast.
- Slightly tighten the lower shrouds in the same way if necessary.
- The mast may ben 2'' forward, while the tension on the lower shrouds remains less than the tension on the capshrouds.
- One can continue tightening the forestay by using the forestay tensioner.
- Lock all turnbuckles with pins.

Tuning the Mast



Isomat Double Groove Stay



Stay Details

Presentation :

- An aluminium double groove stay with male ends (mark 2).

- A set for the standard forestay assembly, composed of :

  . An upper end (mark 1)
  . A lower end (mark 9)
  . An eye 0 16 - Lgth 87 (mark 16)
  . A bolt rope guide (mark 19)

- A set for the roller furler forestay assembly (optional) composed of :

  . A stainless steel hook (mark 3).
  . A hook slider (mark 4).
  . Stainless steel shackles (mark 5).
  . A stainless steel hook line (mark 6).
  . A furling drum (mark 8).
  . A roller furler line (mark 10).
  . A simple swivel block (mark 11).
  . A roller furler line guide (mark 12).
  . A bolt rope guide (mark 19).

Important : The parts marked 1, 2 and 9 must be assembled with screwes and glue.

Assembly of the ''groovestay'' :

. Assemble the upper end (mark 1) and the lower end (mark 9) on the double groove stay (mark 2).
Make sure the rubber spacer is inside the lower fitting before assembly.

. Screw the eye fitting with split pin (mark 16).

. Screw the clamping screws.

Assembly of the ''Below deck furler'' :

. Assemble the furling drum (mark 8) on the lower end (mark 9) as well as the roller furler line guide (mark 12). (Do not tighten the line guide which must be positioned towards the first line leading block).

. Set the simple swivel block (mark 11) on the roller furler line guide (mark 12).

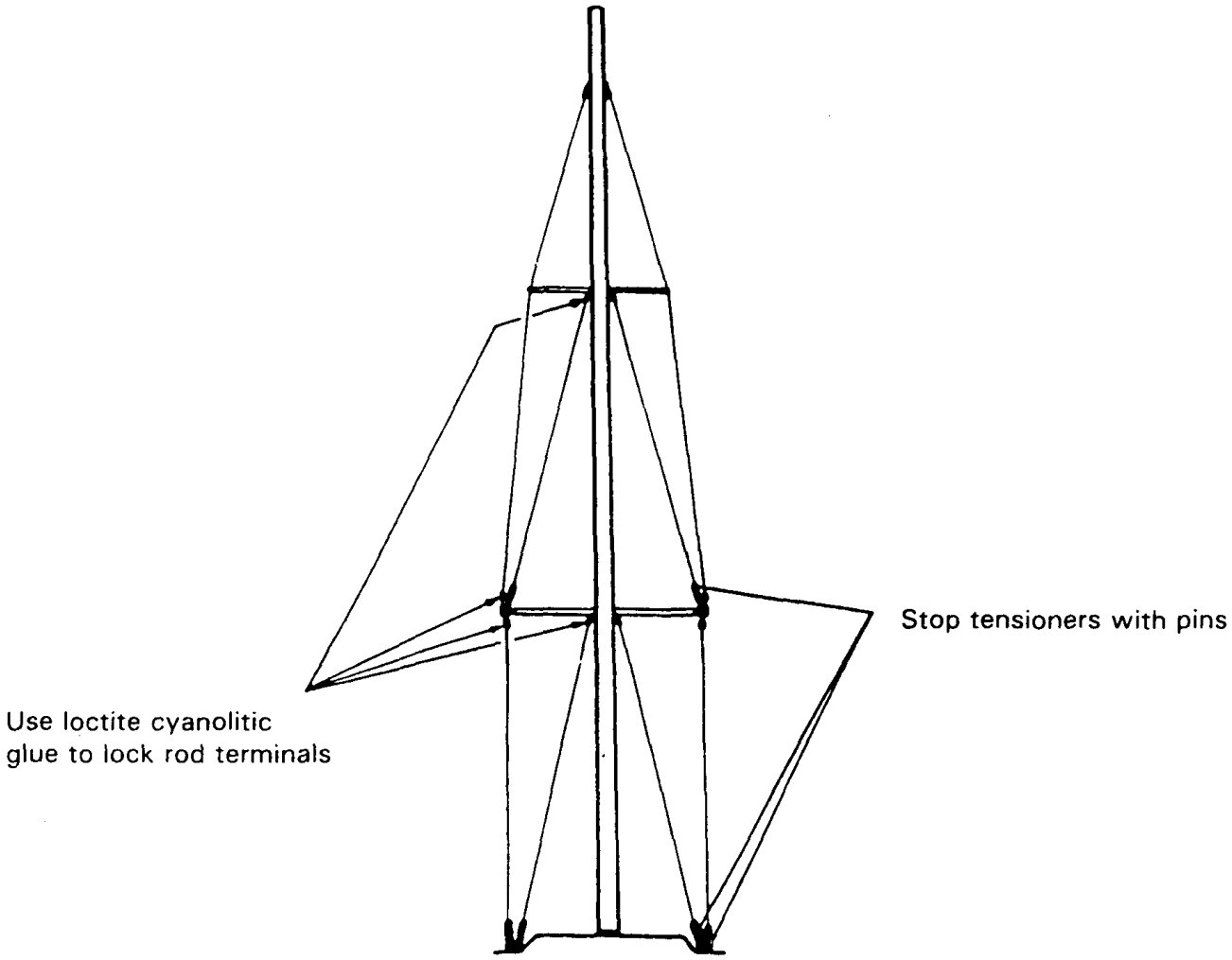
. Set the roller furler line (mark 10) through the furling drum holes (mark 8). Fasten the end by a figure eight. Have a maximum of turns made (ranging from 35 to 40).

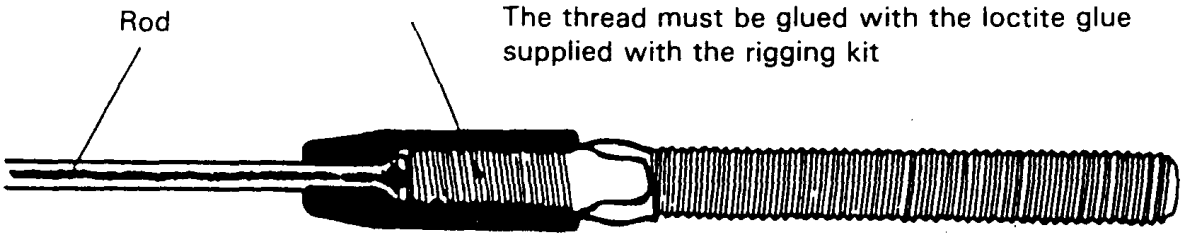
. Set the hook slider on the double groove headfoil (mark 2).

Comparison: Monofil Rod vs. Monotron Cable

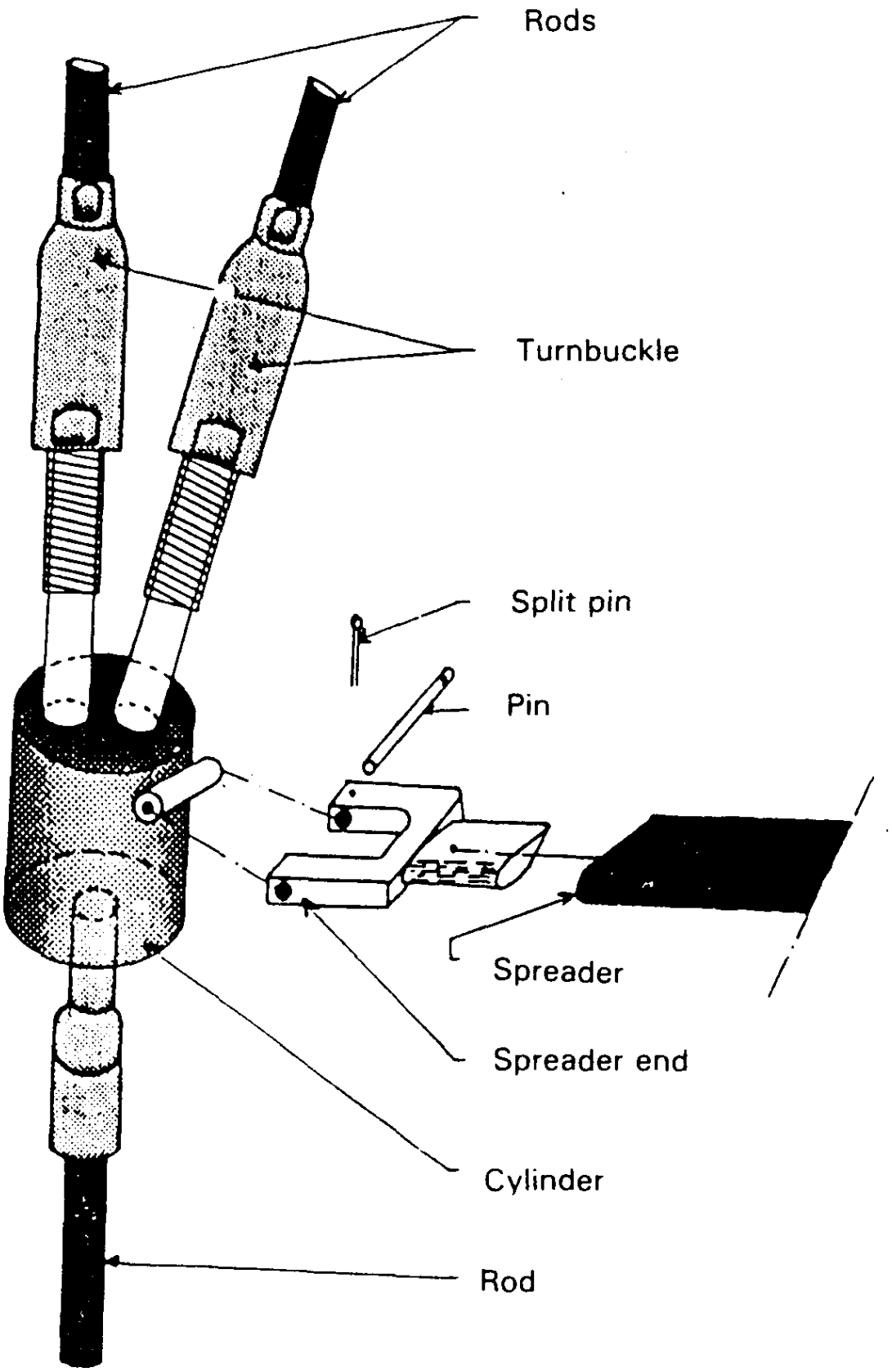
MONOFIL ROD		MONOTORON CABLE	
Diameter	Elastic limit	Diameter	Elastic limit
Ø 7	4 750 kg	Ø 8	3 530 kg
Ø 6	3 500 kg	Ø 7	2 695 kg
Ø 8	6 200 kg	Ø 10	5 490 kg
Ø 10	9 700 kg	Ø 12	7 460 kg

Installing the Rod Rigging





Fitting the Spreader Ends



Assembly of the Furling Sail

Assembly of the furling sail :

. Set the sheets.

. Drive the bolt rope of the sail into the groove feeder (mark 19) then into the groove.

. Attach the halyard clew of the sail onto the hook slider (mark 4) with a stainless steel shackle (mark 5).

. Couple the remote control (mark 22).

. Imperatively use the spi halyard (mark 23) lashed onto the stainless steel hook (mark 3) and equipped with its hook line (mark 6). With the help of this set, hoist the hook slider till you hook it into the upper end (mark 1).

. Lower the spi halyard (mark 23) with the hook line (mark 6).

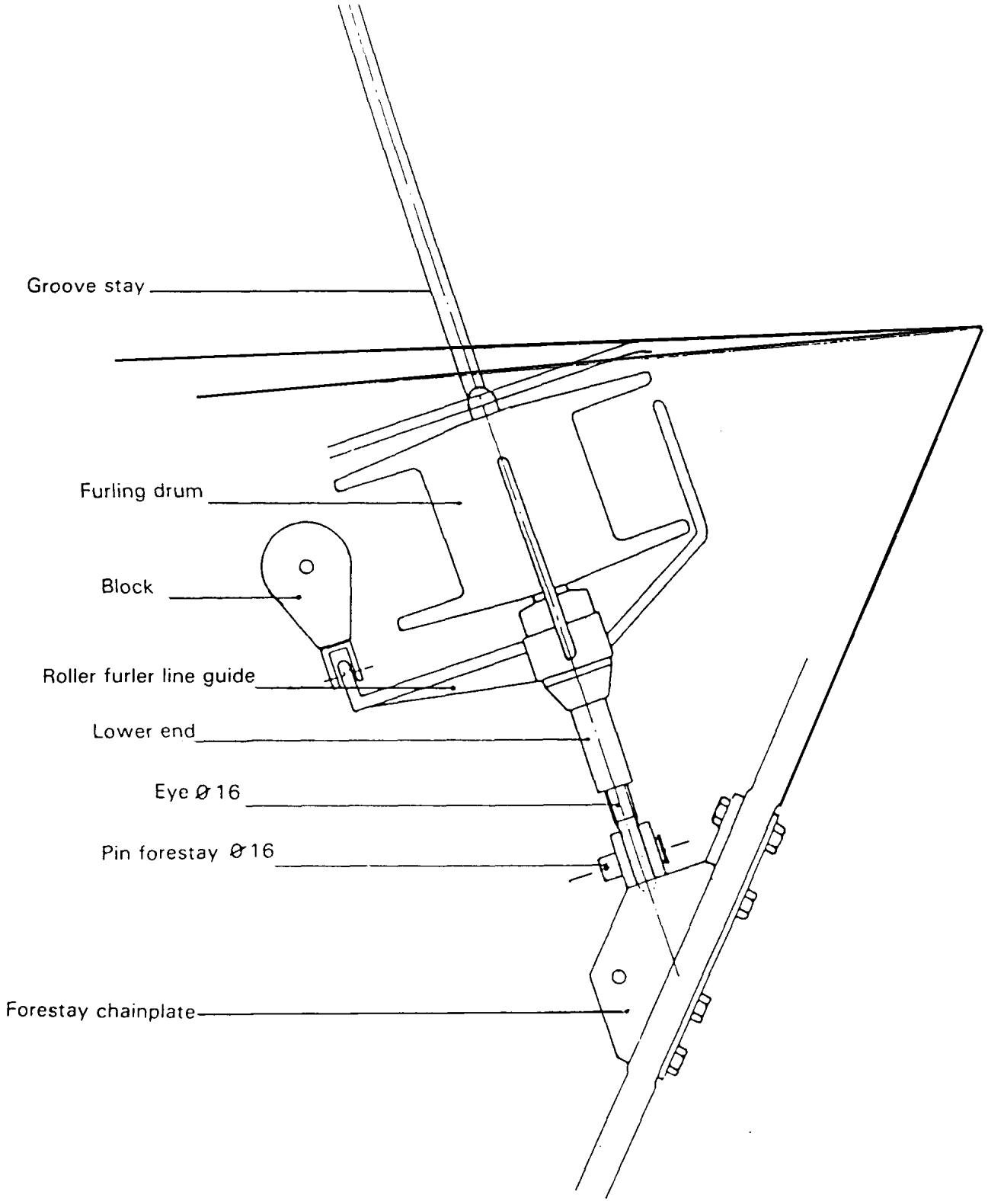
. Attach the tack of the sail to the S/S shackle with a tackline of a small tackle.

. Furl the sail.

Disassembly of the sail :

. Unfurl the sail.
. Disassemble the tackline or the tack.
. Set the hook slider free (mark 4) with the remote control (mark 22).
. Lower the sail.

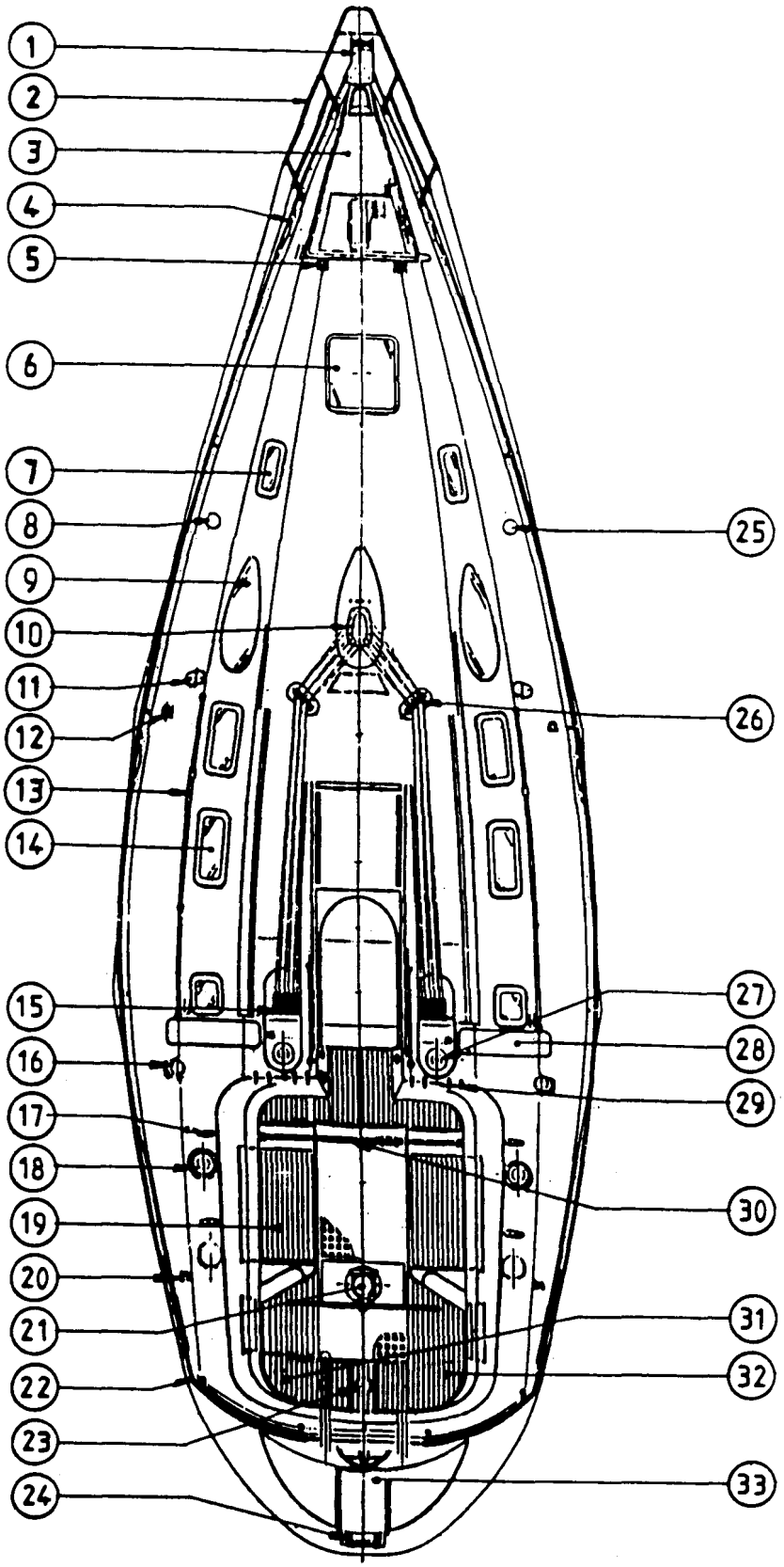
Details of the Roller Furler



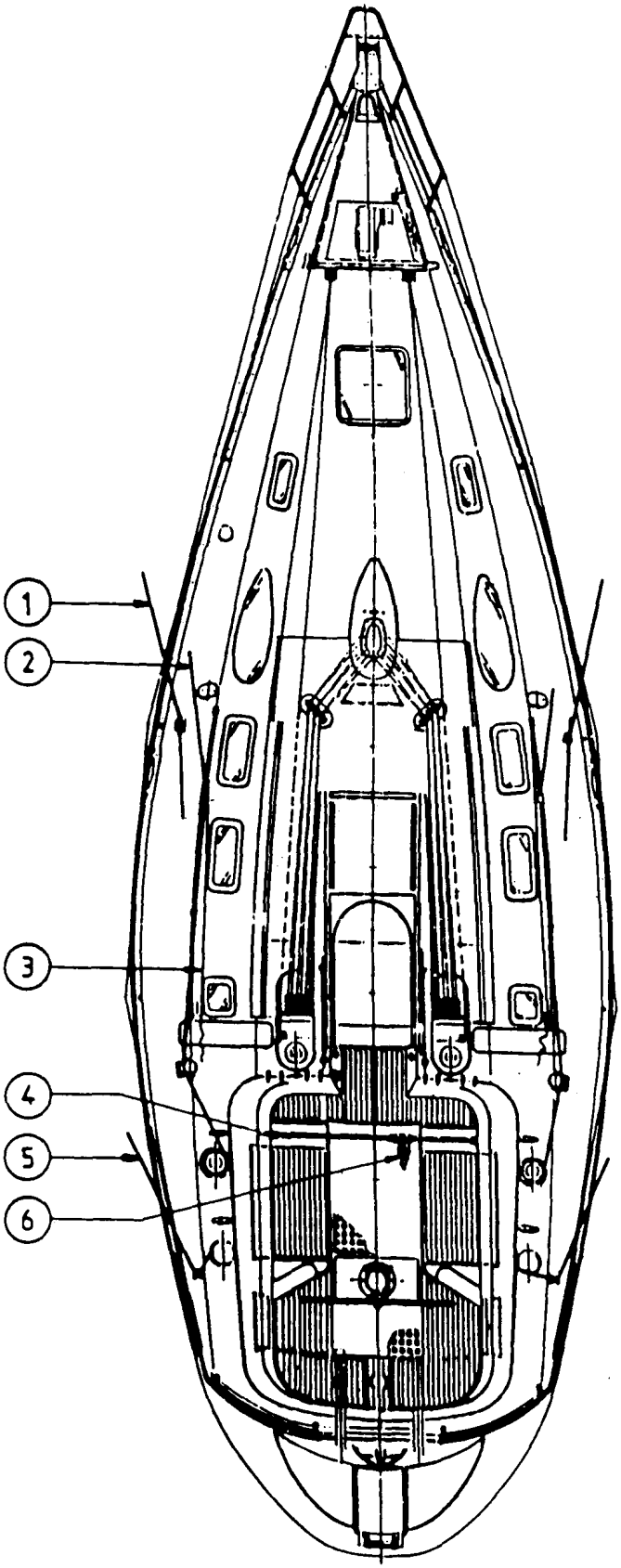
Deck Fittings

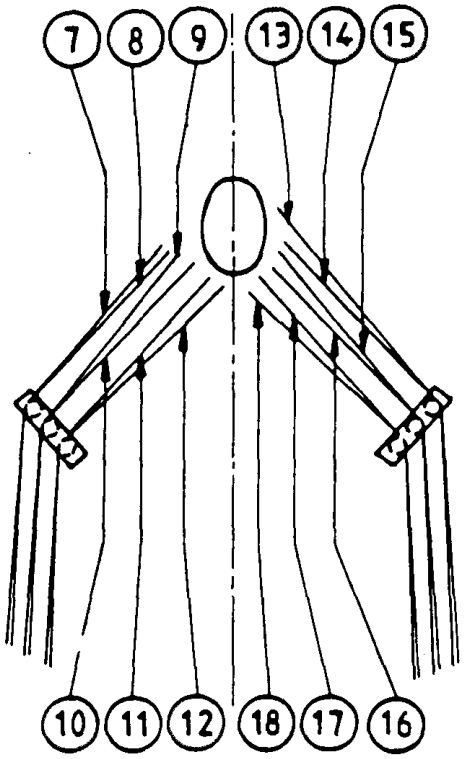
REFERENCE	NAME
1	Bow fitting
2	Pulpit
3	Anchor locker hatch
4	Mooring cleat
5	Downhaul chainplate
6	Opening deck hatch of forward cabin
7	Opening porthole
8	Portside water tank filler
9	Skylight
10	Mast step
11	Shroud chainplate
12	Chainplate for spi guys
13	Genoa sheet track
14	Opening porthole
15	Automatic double jammers
16	Genoa sheet cheek block
17	Genoa sheet cleat
18	Genoa sheet winch
19	Sail locker hatch
20	Spinnaker sheet chainplate
21	Steering geer
22	Pushpit
23	Emergency tiller fitting
24	Swimming ladder
25	Starboard unter tank filler
26	Sheave box
27	Manoeuvering winches in coachhouse
28	Skylight
29	Cleats
30	Main sheet teak
31	Gas bottle locker
32	Aft locker hatch
33	Swimming ladder protection

Deck Fittings Plan



Running Rigging Plan





Mast Rigging

7	1st Genoa Halyard
8	2nd Reef
9	1st Reef
10	Mainsail Outhaul
11	Boom Vang
12	(Does not exist)
13	(none)
14	Pole Topping Lift
15	2nd Genoa Halyard
16	Main Halyard
17	Cunningham
18	Main Sheet

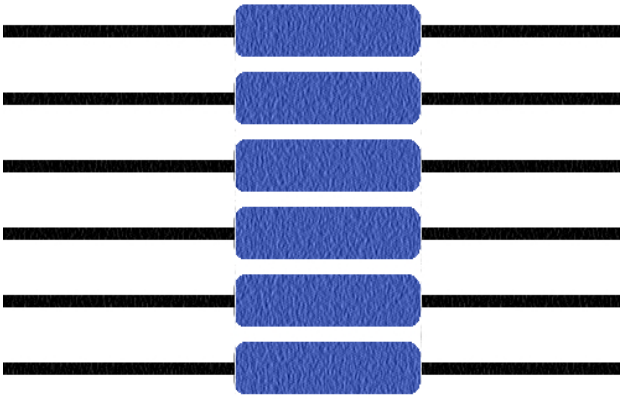
Deck Rigging

1	Spinnaker Guy
2	Genoa Sheet
3	Genoa Car Adjusting Line
4	Main Traveller Adjusting Line
5	Spinnaker Sheet
6	Main Sheet

Cockpit Rigging Plan

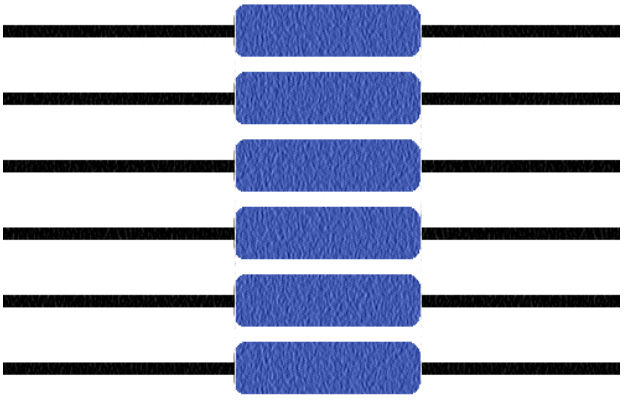
Port

	2nd Jib Halyard
Black/White	1st Jib Halyard
White/Red	2nd Reef
Black/White	1st Reef
White	Mainsail Outhaul
White	Boom Vang



Starboard

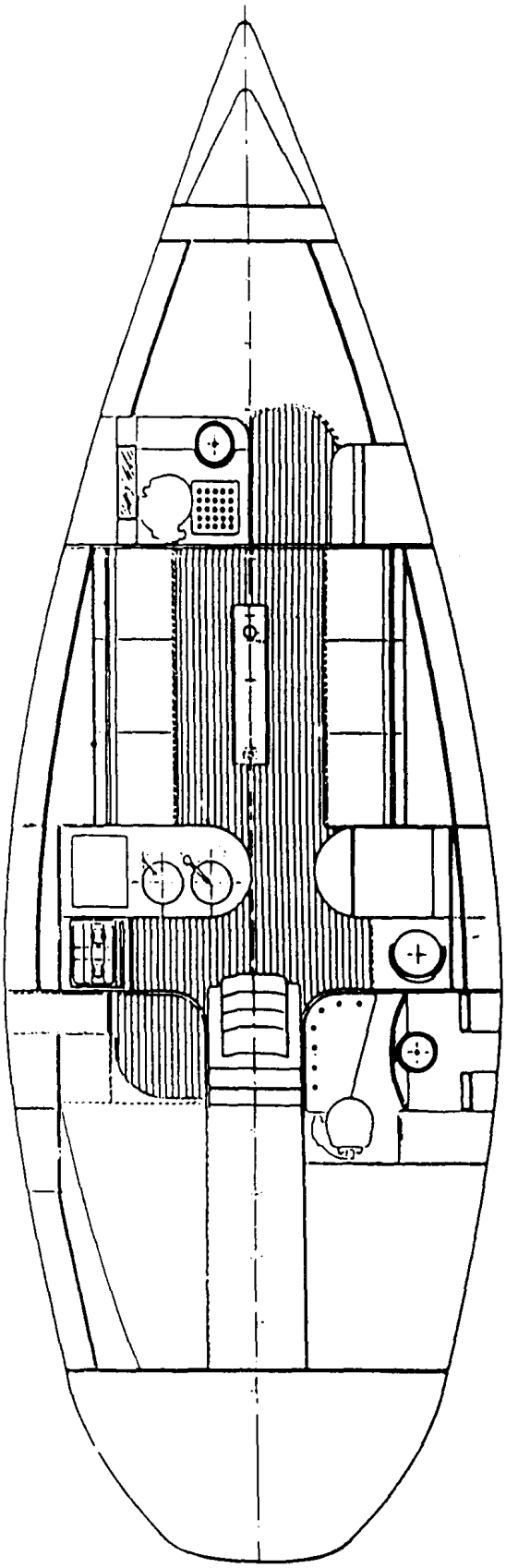
White/Red/Blue	Cunningham
Black/White	Main Halyard
Green/White	Main Sheet
White/Blue	Spinnaker Halyard
White/Red	Pole Topping Lift



Running Rigging

Function	Ref	Type / Diameter	Color / Length	Qty	Supplier	Terminals
MAINSAIL						
Halyard	013553	Kevlar 12mm	Black/White 36m 118'	1	Amiot	Shackle with bar 8mm
Sheet (Roof Traveler)	321015	Gemini 12mm	Green/White 29m 95'	1	Amiot	1 block VA 4 1 block VER 4 2 blocks SA 4 1 block SE 4
Sheet (Normal)	013554	Gemini 12mm	Black 29m 95'	1	Amiot	1 triple block + cleat T4 – 1 double block 2 single block T4 toggle becket – 1 block T3
Traveler Adjuster	139024	Dacron 8mm	Light Blue 6m 20'	2	Lancelin	
Boom Topping Lift	016012	Dacron 10mm	White/Green 32m 105'	1	Amiot	Shackle with bar 6mm
Boom Vang	013555	Gemini 12mm	White 12m 40'	1	Amiot	1 triple block VA 4 – 1 block VAR 4 2 single block T4 toggle becket – 1 block T3
First Reef		Sta-Set 12mm	Black/White			
Second Reef		Sta-Set 12mm				
Cunningham		Sta-Set 12mm	White/Blue			
GENOA/HEADSAIL						
Halyard	016011	Kevlar 12mm	Black/Red 33m 108'	1	Amiot	Snap with becket 90mm
Sheet	016013	Gemini 12mm	White 19½ 64	2	Amiot	
Sheet Car Adjuster	139023	Sta-Set	Light Blue	2	Lancelin	
SPINNAKER						
Halyard	310600	Cup 12mm	Red 35m 115'	1	Amiot	1 snap with becket 90mm
Pole Topping Lift	008468	Cup 8mm	White 26½ 87'	1	Amiot	1 snap eye 70mm
Pole Downhaul	013556	Cup 10mm	 22m 72'	1	Amiot	3 blocks MSQ 3
Sheet	016014	Gemini 10mm	Red 18m 59'	1	Amiot	1snap with becket 90mm + 1 block MSQ 4
Guy	013557	Kevlar 12mm	Red/Black 18m 59'	1	Amiot	1snap with becket 90mm + 1 block MSQ 4

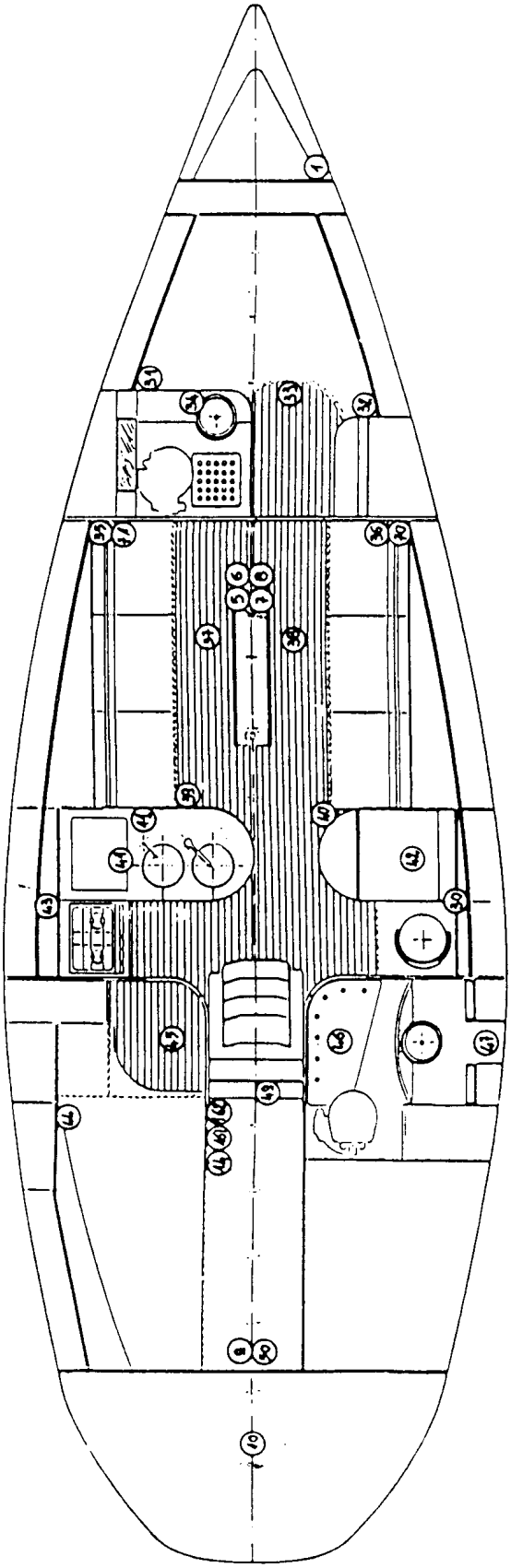
Cabin Floor Plan



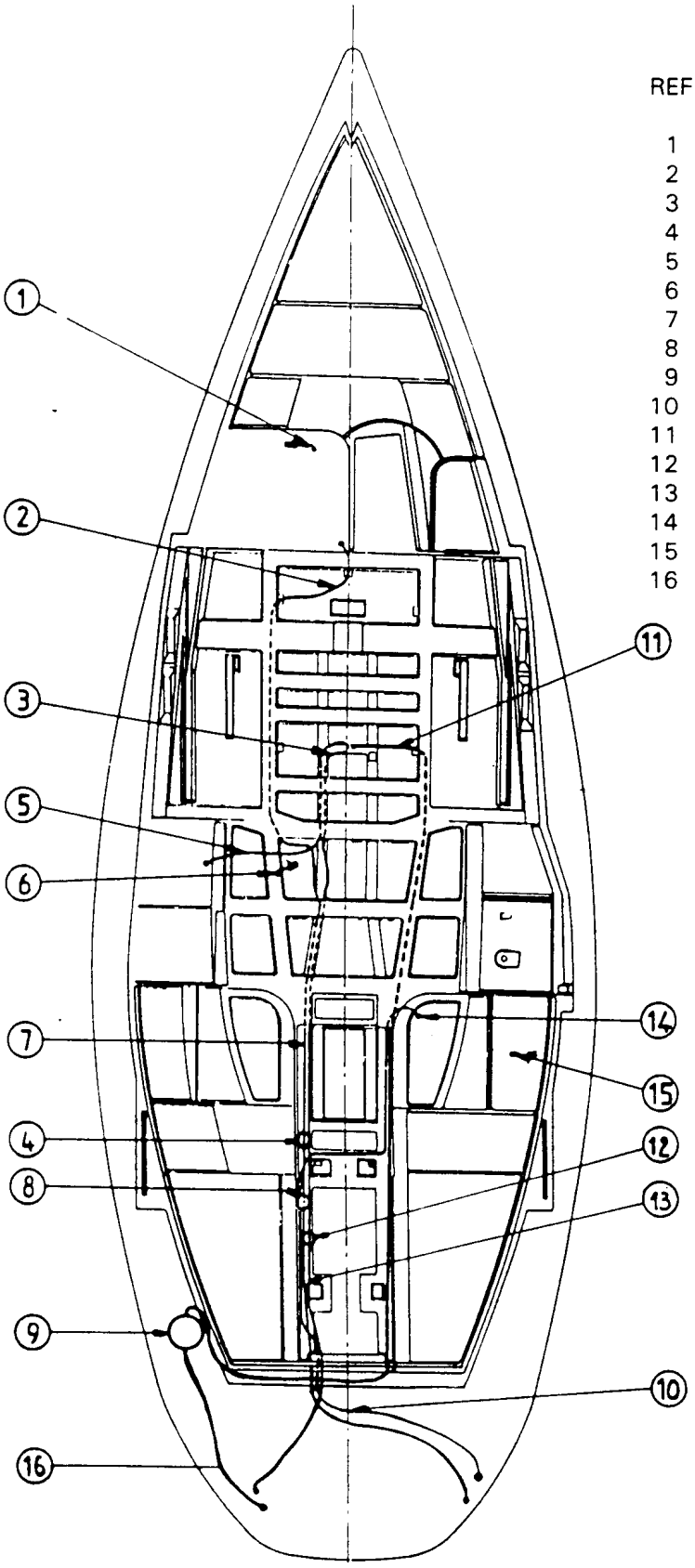
Electric Circuits

MARK	SECTION	PANEL MARK	FUNCTION
1	2 x 0,75² Grey	1	Pulpit navigation lights
5	1 x 0,75² Red	2	Anchor light
6	1 x 0,75² Red	3	Steaming light
7	1 x 1,5² Red	4	Deck light
8	1 x 2,5² Black		Common negative pole of the mast
9	2 x 0,75² Grey	4	Compass light
10	2 x 0,75² Red/Black	1	Stern light
11	2 x 4² Red/Black	8	Electric fridge (optimal)
13	2 x 2,5² Red/Black	6	Pressure water system pump
14	2 x 1,5² Red/Black	7	Electric bilge pump
30	2 x 0,75² Red/Black	9	Chart table ceiling light
31	2 x 0,75² Red/Black	5	Reading lamp in portside forward cabin
32	2 x 0,75² Red/Black	5	Reading lamp in starboard forward cabin
33	2 x 0,75² Red/Black	5	Ceiling light in forward cabin
34	2 x 0,75² Red/Black	5	Ceiling light in forward head
35	2 x 0,75² Red/Black	5	Reading light in salon (portside)
36	2 x 0,75² Red/Black	5	Reading light in salon (starboardside)
37	2 x 0,75² Red/Black	5	Ceiling light in portside salon
38	2 x 0,75² Red/Black	5	Ceiling light in starboard salon
39	2 x 0,75² Red/Black	9	Portside signal lamp in salon
40	2 x 0,75² Red/Black	9	Starboard signal lamp in salon
41	2 x 0,75² Red/Black	5	Neon tube in galley
42	2 x 0,75² Red/Black	5	Chart table ceiling light
43	2 x 0,75² Red/Black	5	Ceiling light in gallay
44	2 x 0,75² Red/Black	5	Portside reading lamp in aft portside cabin
45	2 x 0,75² Red/Black	5	Ceiling light in aft portside cabin
46	2 x 0,75² Red/Black	5	Ceiling light in head (owner cabin)
46	2 x 0,75² Red/Black	5	Starboardside ceiling lamp in aft cabin (charter version)
47	2 x 0,75² Red/Black	5	Ceiling light in head (owner cabin)
47	2 x 0,75² Red/Black	5	Ceiling light in starboard aft cabin
48	2 x 0,75² Red/Black	5	Reading light in aft portside cabin
49	2 x 0,75² Red/Black	5	Reading light in aft starboard cabin
50	2 x 0,75² Red/Black	4	Cockpit light
70	2 x 0,75² Red/Black		Loud speakers in starboard salon
71	2 x 0,75² Red/Black		Loud speakers in portside salon
161	2 x 1,5² Red/Black	7	Forward portside shower pump
162	2 x 1,5² Red/Black	7	Aft starboard shower pump (owner version)

Wiring Diagram

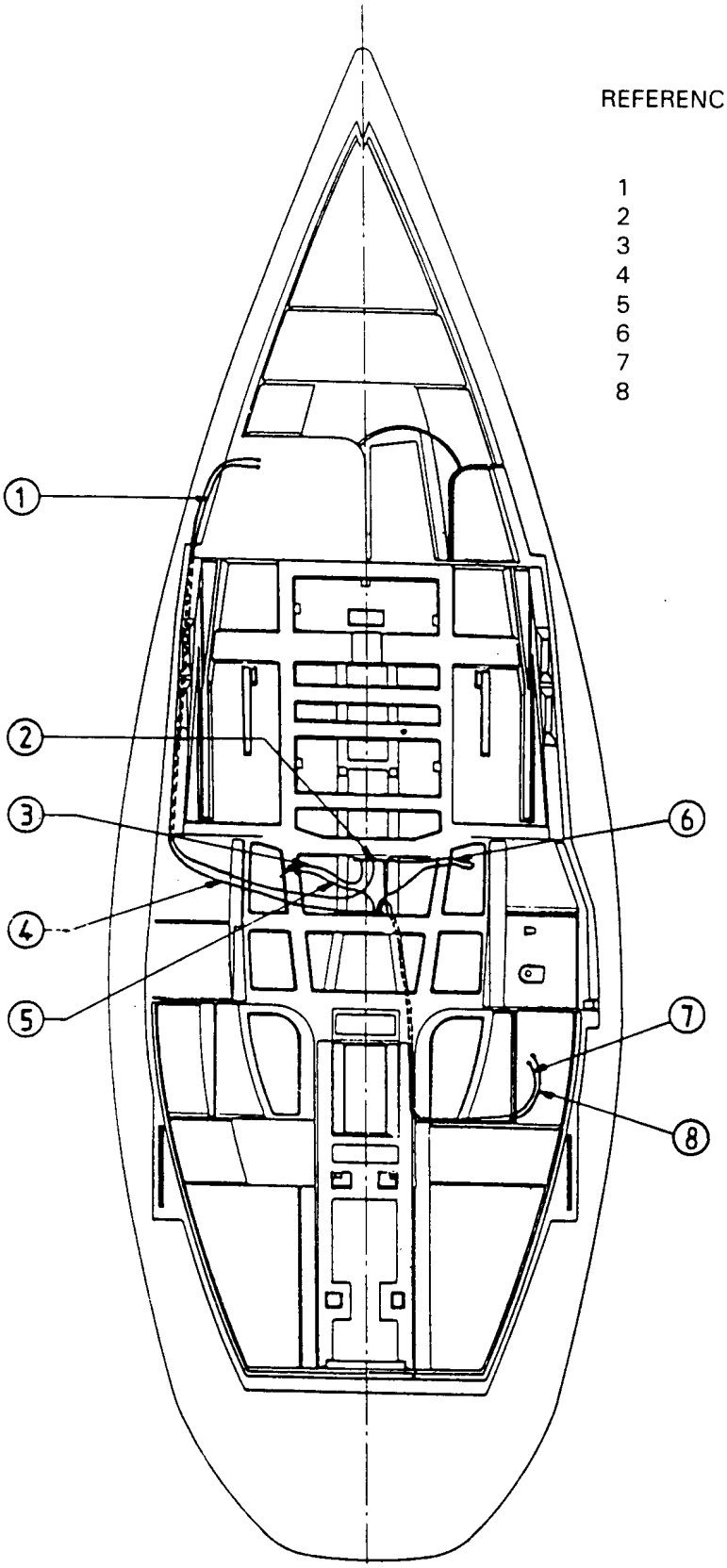


Draining Circuit



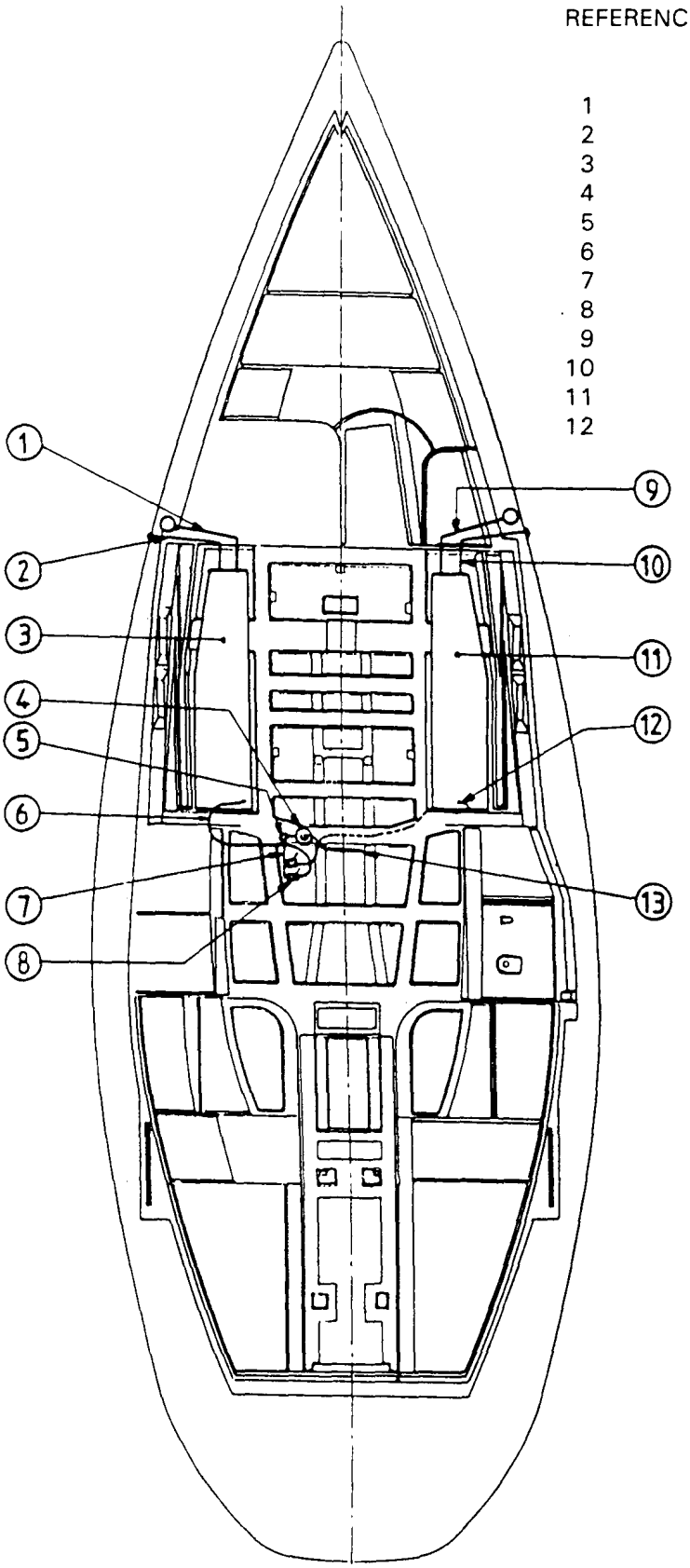
REFERENCE	USE
1	Drainage from sink in front head
2	Drainage from shower tray to pump
3	Sump box to electric bilge pump
4	Forward shower sump pump
5	Drainage from fridge to bilge pump
6	Drainage from galley sink
7	Front shower pump outlet
8	Aft shower sump pump
9	Manual bilge pump
10	Aft shower pump outlet
11	Sump box to manual bilge pump
12	Electric bilge pump
13	Electric bilge pump outlet
14	Drainage from aft shower to pu
15	Drainage from sink in aft head
16	Manual bilge pump outlet

Fresh Water Distribution



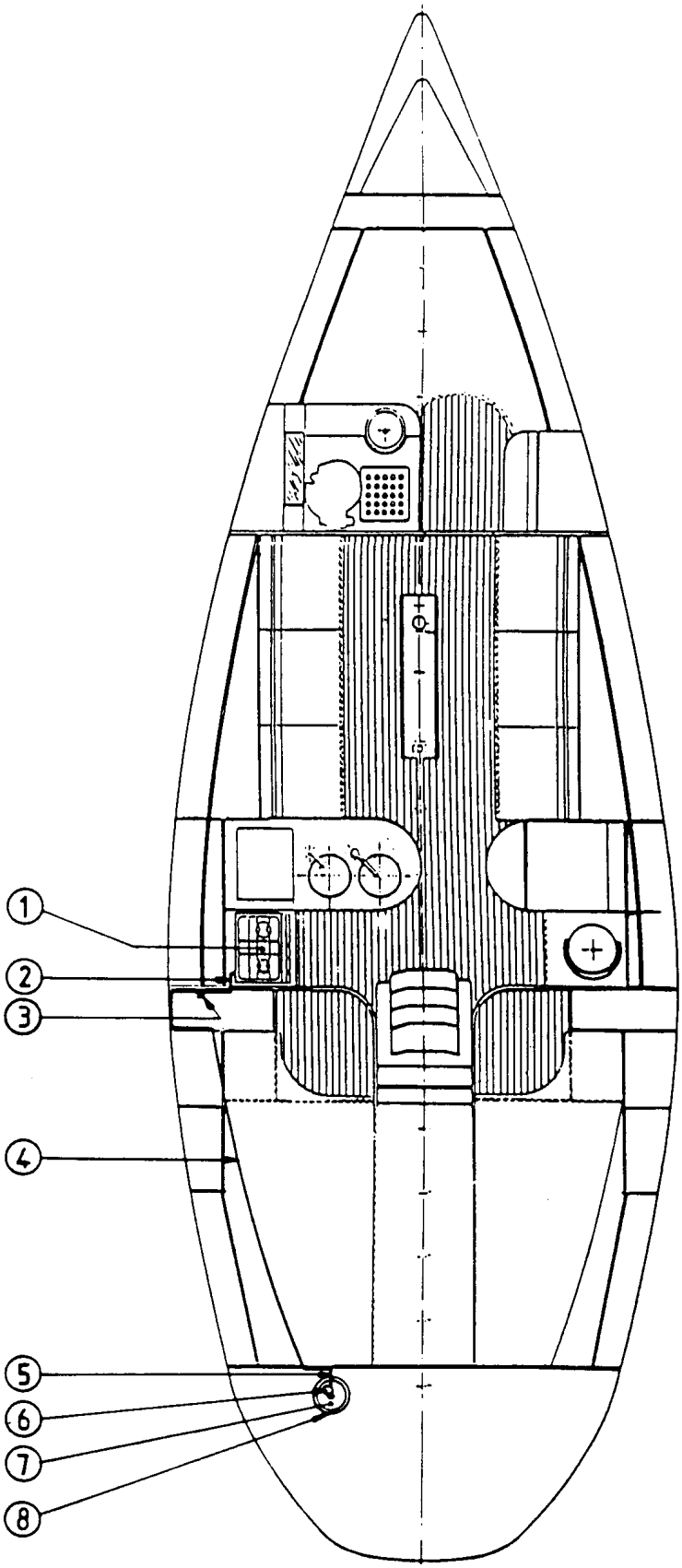
REFERENCE	USE
1	Forward head sink cold water supply
2	Cold water collector
3	Cold water supply of galley sink
4	From heater to sink in forward head
5	From heater to sink in galley
6	Equipement for hot water system
7	From heater to aft head
8	Supply of aft shower

Fresh Water Supply



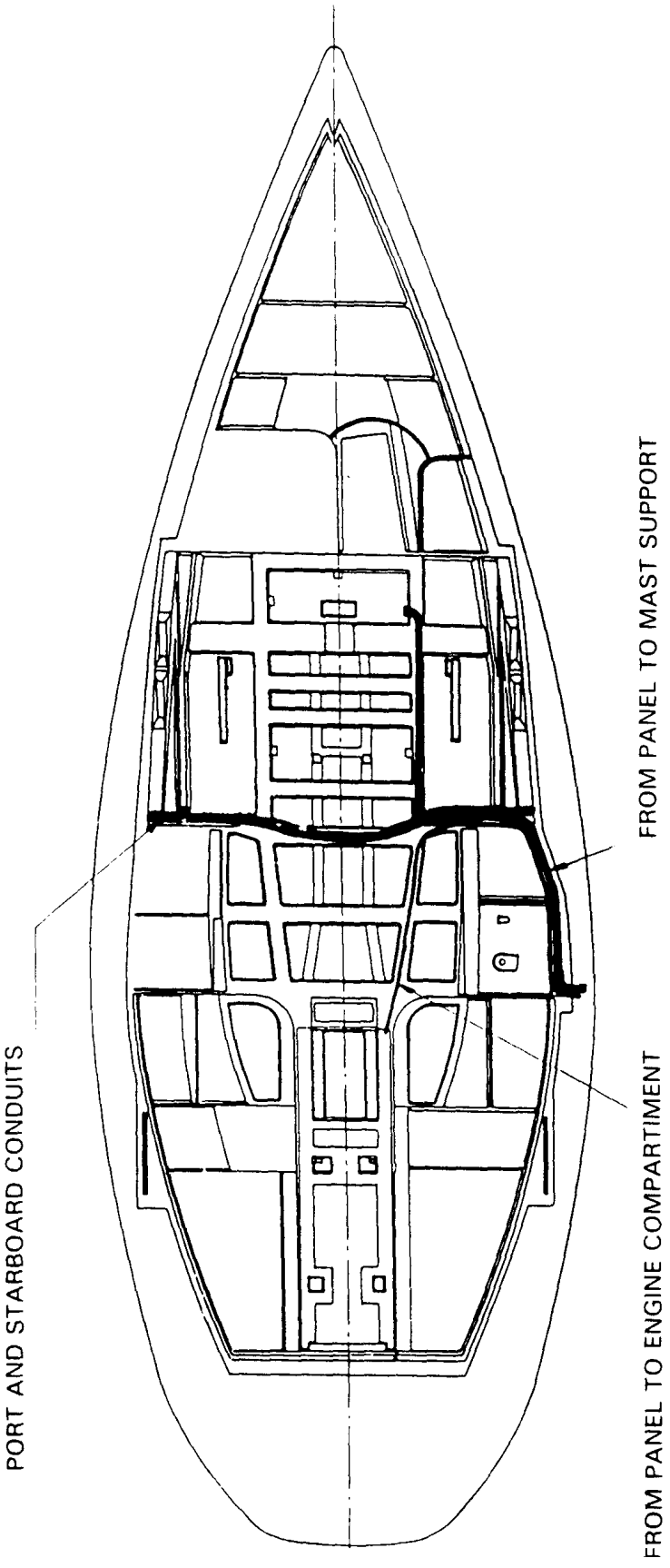
REFERENCE	USE
1	Portside tank filling
2	Portside tank vent
3	Portside water tank
4	Pressure water system pump
5	Filter
6	Intake from starboard tank
7	Intake from filter
8	Valves
9	Starboard tank filler
10	Starboard tank vent
11	Intake from starboard tank
12	Cold water distribution

Butane Gas Circuit



REFERENCE	USE
1	2 Burner stove with oven
2	NORMAGAZ flexible pipe
3	Shut off valve
4	Annealed copper pipe
5	NORMAGAZ flexible pipe
6	Relief valve
7	Gas bottle
8	Gas bottle locker

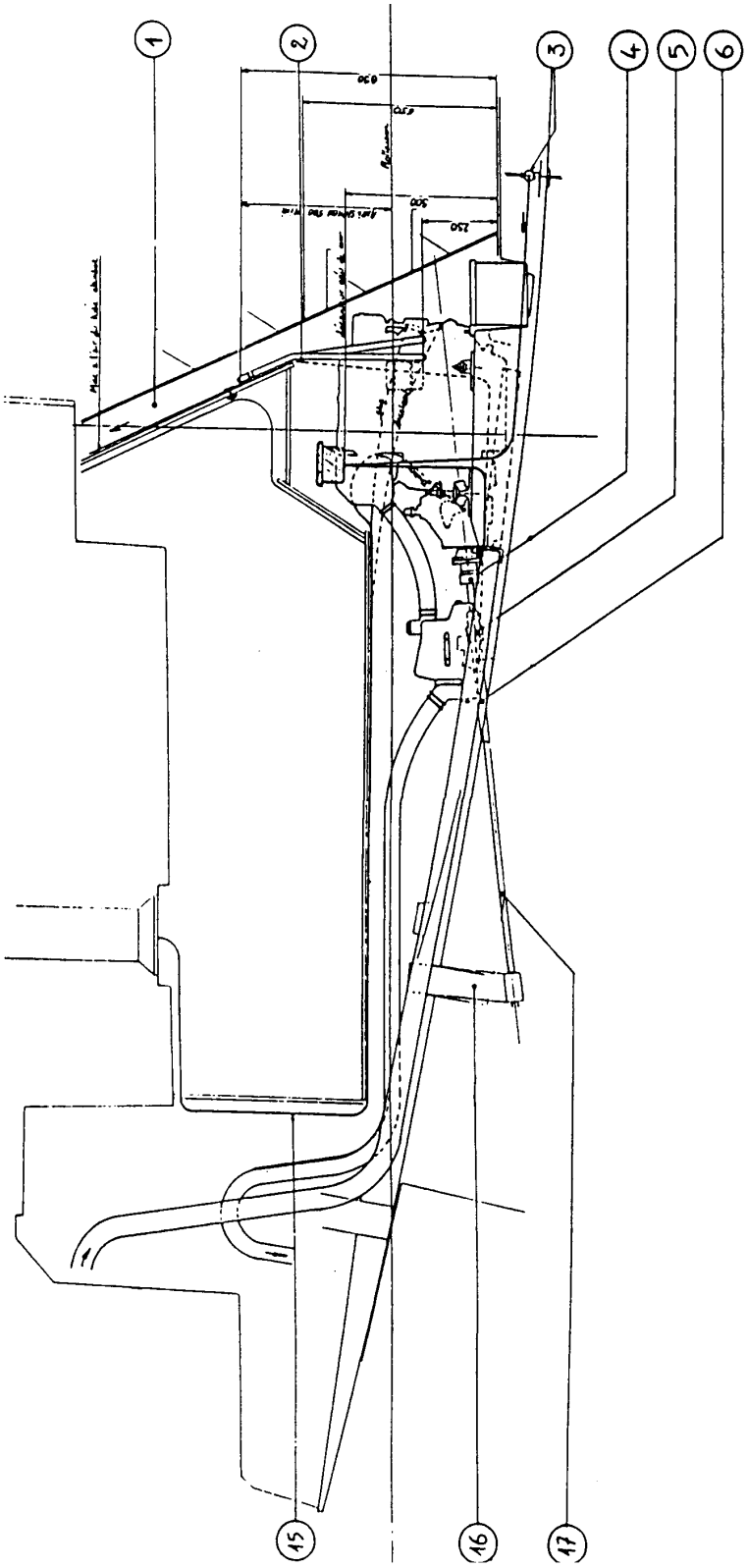
Conduits for Electronics

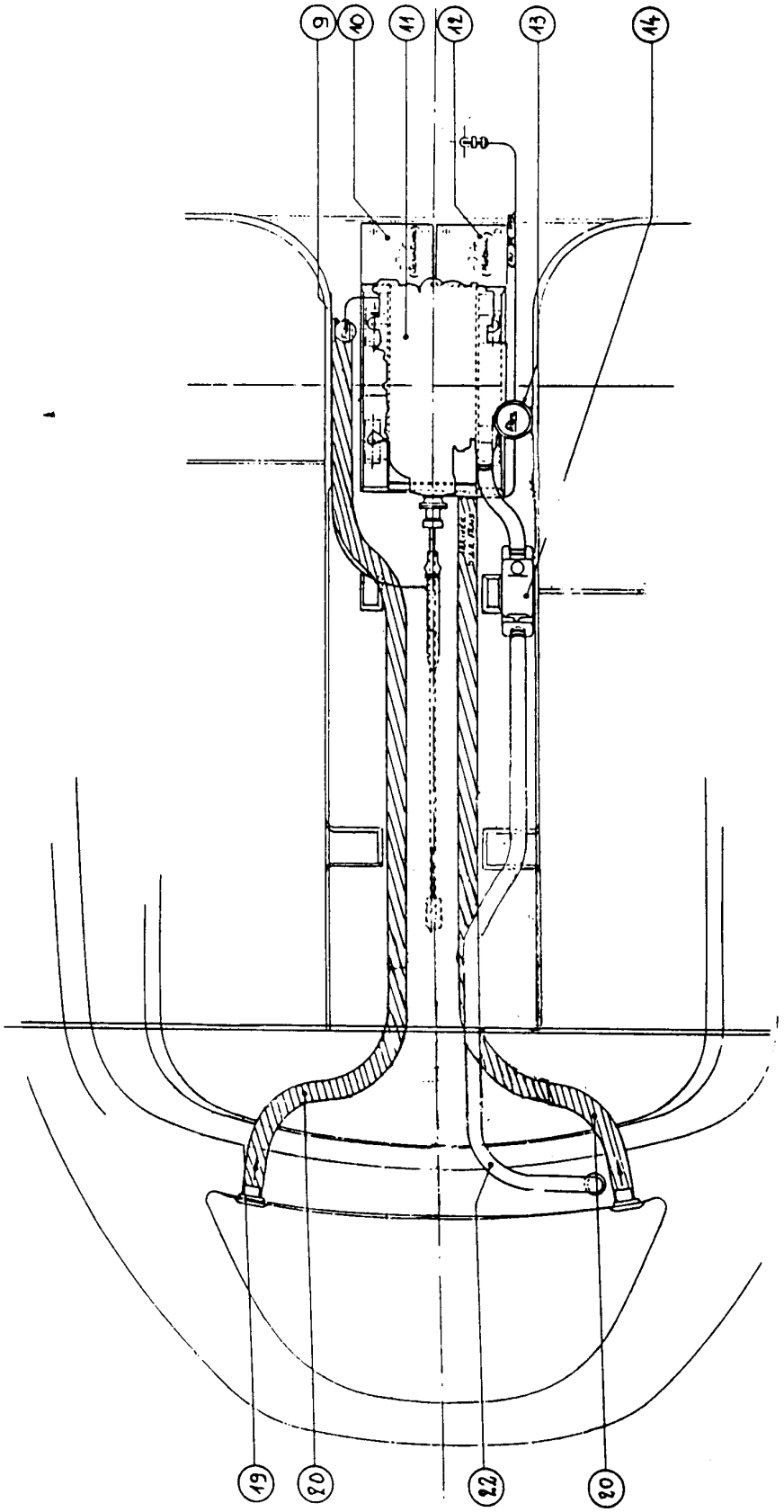


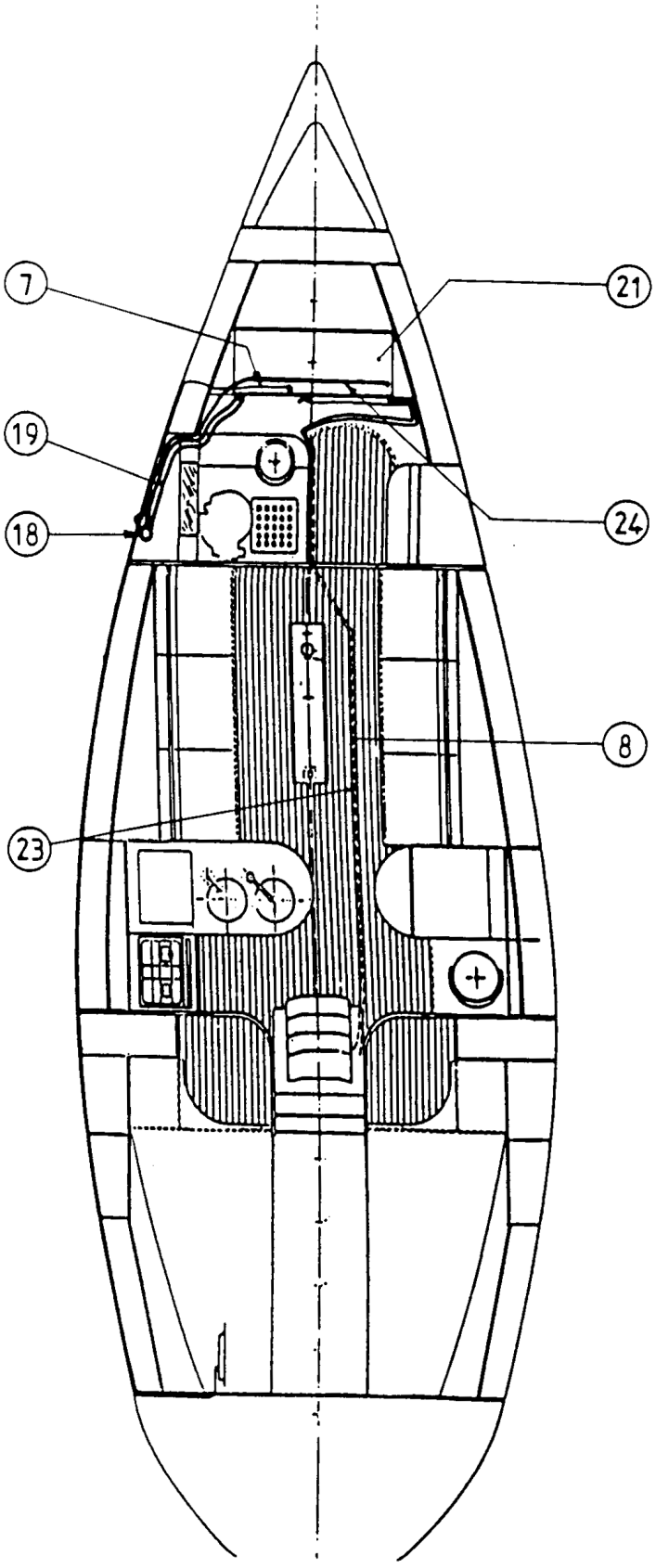
Engine Systems

1	Hot air extraction
2	Stern tube air bleeder
3	Water intake valve for the engine
4	Coupling plate
5	Stern gland
6	Sternpost tube and branch tube
7	Gauge from mechanical panel
8	Fuel return
9	Fuel filter
10	1st battery (domestic use)
11	Engine
12	2nd battery (engine start use)
13	Sea water filter
14	Exhaust waterlock
15	Engine control cable
16	P. bracket
17	Propeller shaft
18	Fuel filler
19	Fuel filling pipe
20	Engine ventilation - cold air intake
21	Fuel tonk
22	Engine exhaust pipe
23	Fuel supply
24	Fiel tonk vent

Engine Installation Plans




9
10
11
12
13
14
19
20
22
20


7
21
19
24
18
8
23