



aero 
naut



Trawler

Santorini

Order no. 3074/00

Trawler Santorini

The wooden parts of the kit are provided with laser-cut and part numbers. The accompanying cuts can be clearly assigned by using the parts list on the last pages. To solve the laser parts from the material carriers, you cut the lands from which the laser parts are held in the material carrier, with a sharp craft knife. Then clean to achieve the dark edges of the laser parts with sandpaper to the radicals of the lands to be removed, a good bonding of the components and, not least, a good appearance of the model.

Check all components before bonding for correct position and work the parts necessary for something. Make sure that all bonds are completely dry before you begin the next construction step.

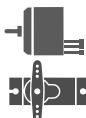
Assembling the model should be in the order of construction stages according to these instructions. always loosen only the parts of the material support that you need for the current construction step.

Please note the adhesive table below for the individual bonds. Before the boat is put into the water, it must be with boat varnish inside and painted outside so that the wood and the glued joints are waterproof. Parts which are glued onto the spar varnish, 2-component adhesive connect to a. A sanding block (9 parts adhere to each other) and sandpaper are in the kit.



Technical specifications

Length:	about 510 mm
Width:	about 170 mm
Height:	about 205 mm
Scale:	1:15



Recommendations for the drive / RC hardware

Engine:	Race 280 Order no. 7000/28
controller:	Multi 25 Order no. 7019/71
Battery pack:	2S Po or 6 cells NiMh
servo:	1 Servo about 22 x 11 x 24 mm

Tips & Hints



the bonding instructions!
Bonds which break apart from the
Bodenplatten may disconnect the propeller
into the holding webs of the parts



Attention! Carefully follow the instructions of
For the construction we recommend our
aero-model pick-needles Order No. 7855/02

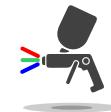


Please note the adhesive recommendations



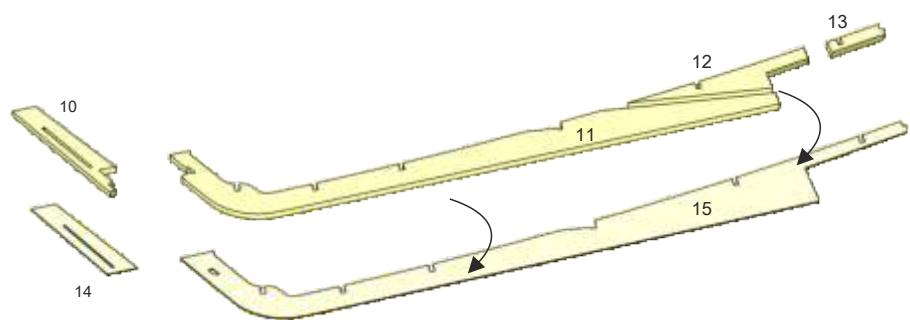
Recommended adhesives

material	adhesive	Order No.
Wood / Wood	Ponal Express	7638/10
Wood / metal	stability Express	7646/02

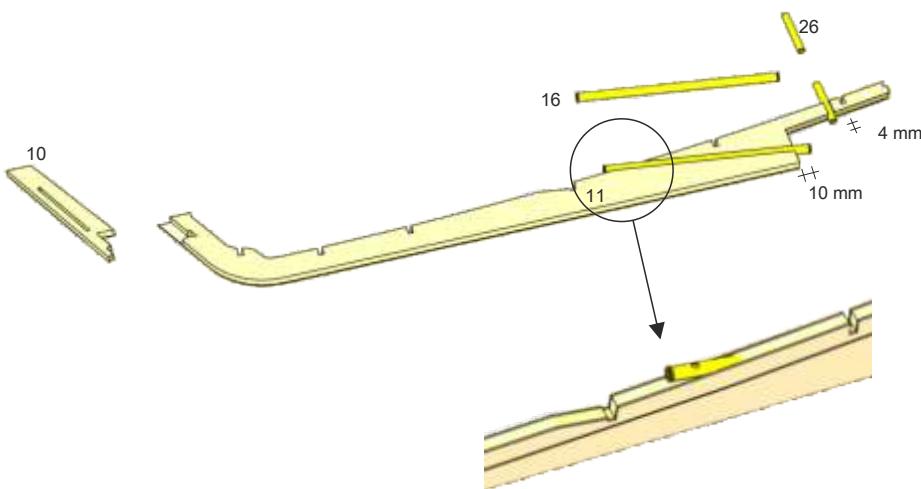


Recommended primer

material item	Order No.
Wood sealer	7666/02
Wood Spar varnish (for example, highlight)	



1 Part 10 stick to part fourteenth
Parts 11, 12 and 13 fitting exactly stick to parts 15th The marker should be placed on part 15 on the respective outer side.

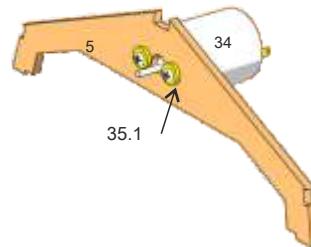
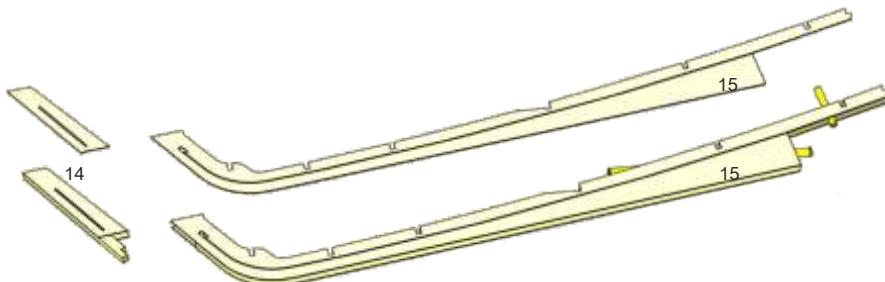


2 + 3

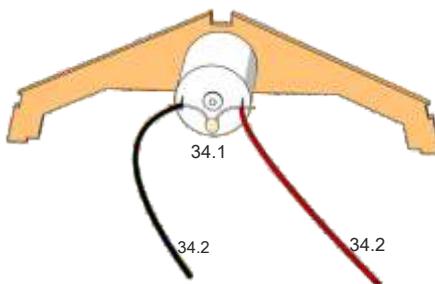
The shaft tube 16 between the parts 11 and 12 adhere. The shaft tube must survive mm at the rear of the 10th The rudder trunk 26 glue so that 4 mm it protrudes downward.

Note: The small hole in the shaft tube for greasing the shaft needs to show up.

4 Now part 14 stick to part 10 and 15 on the parts 11,12 and 13, to complete part to the keel.

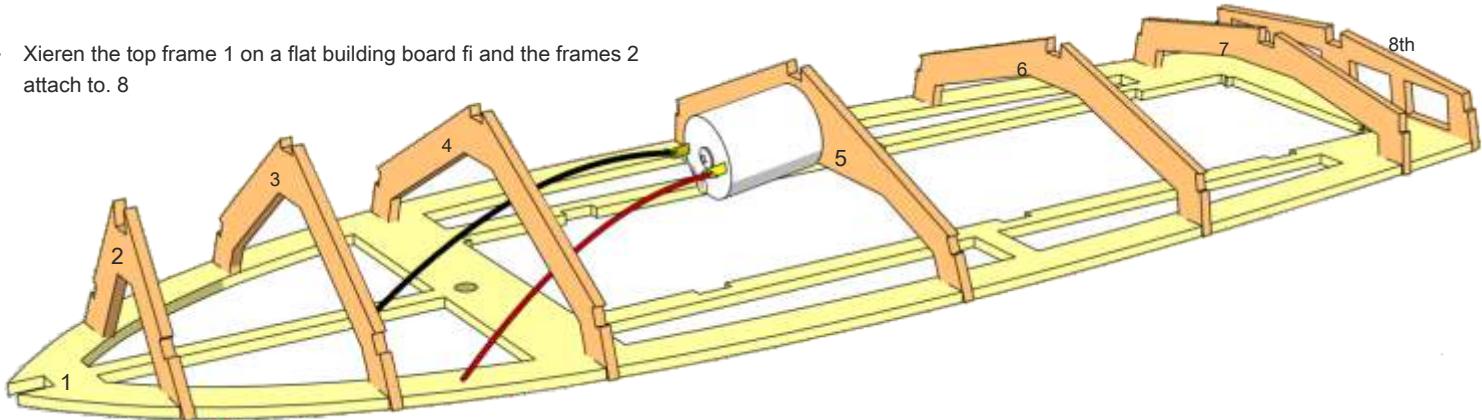


5 The motor 34 with the screws 35 and washers
35.1 Screw on frame 5th

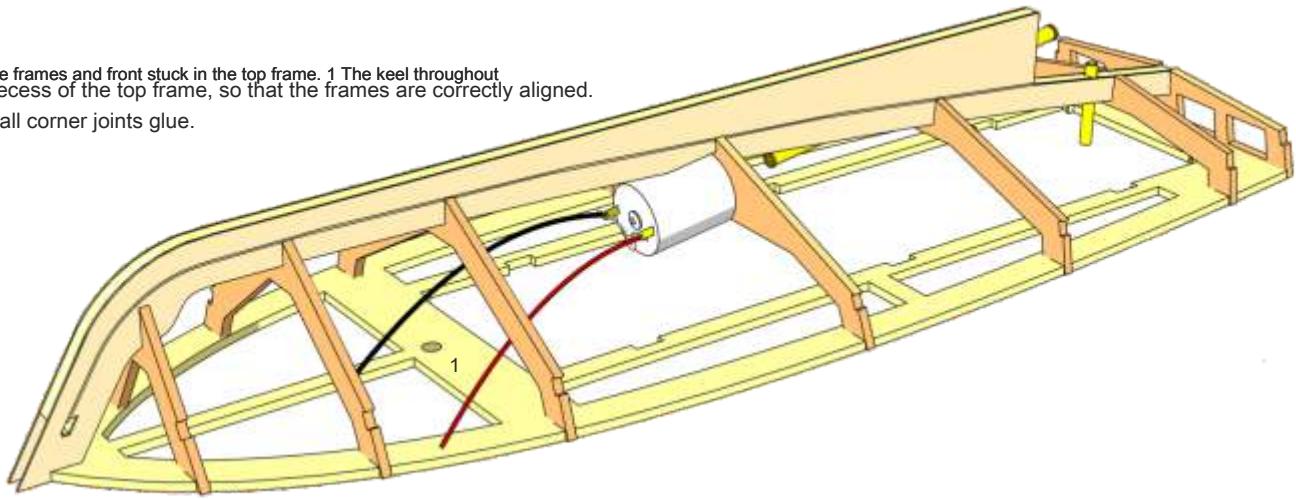


6 Solder the capacitor between the two terminals and one cable per connection.

7 Xieren the top frame 1 on a flat building board fi and the frames 2 attach to. 8

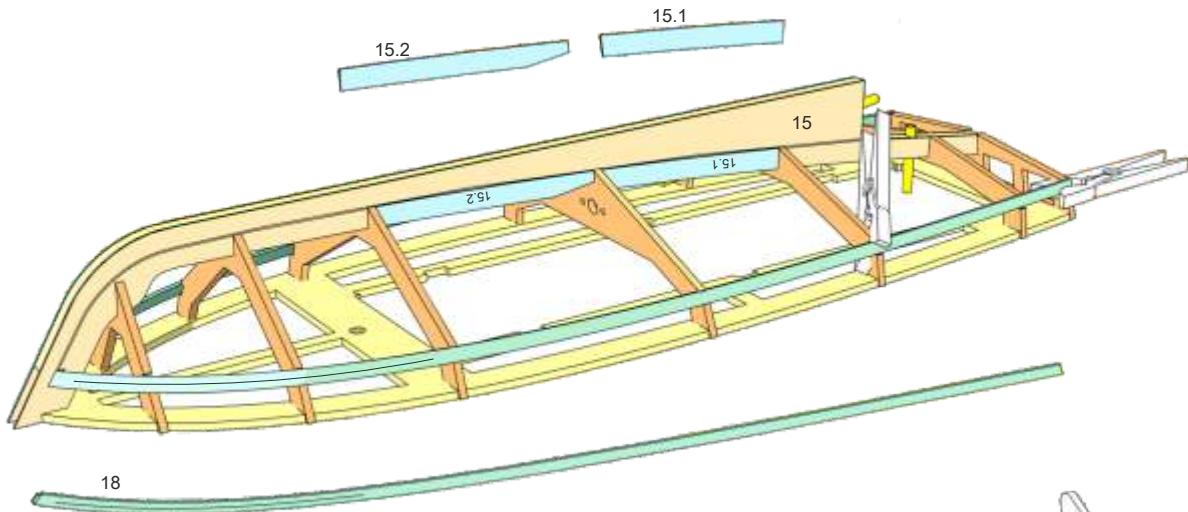


8th The keel to the frames and front stuck in the top frame. 1 The keel throughout slide in the recess of the top frame, so that the frames are correctly aligned.
The parts in all corner joints glue.

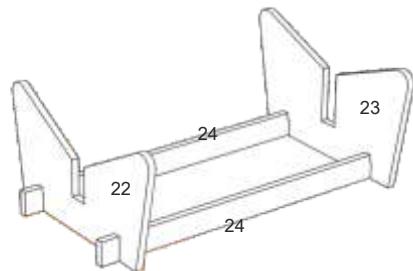


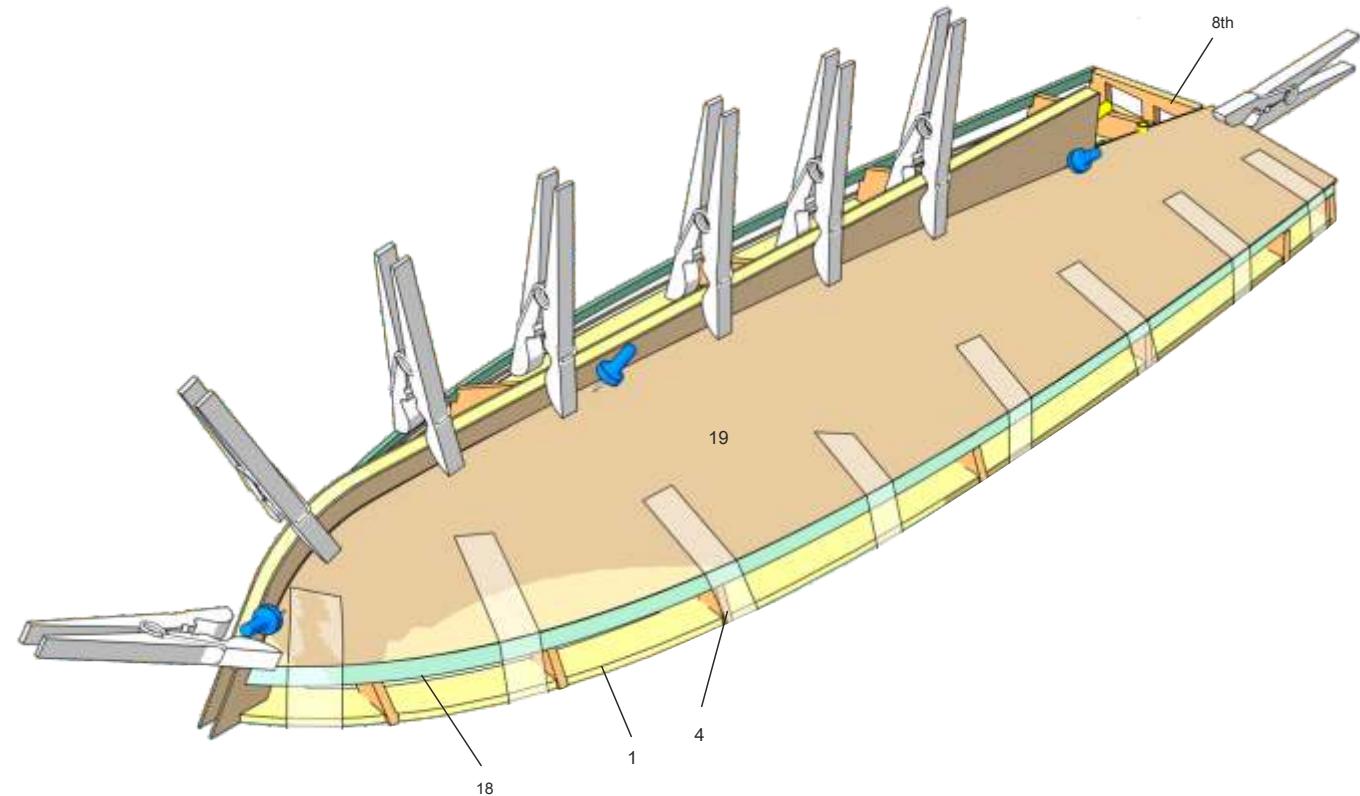
- 9 The false edges 15.1 and 15.2 glue on both sides of the keel 15th
The lines at the keel must remain visible. Note: The part numbers on
the parts 15.1 and 15.2 must be upside down.

The Kimmleiste 18 put forward in the Kiel 15th Part 18 sticking into the keel
15 and in the joists and secured with staples.



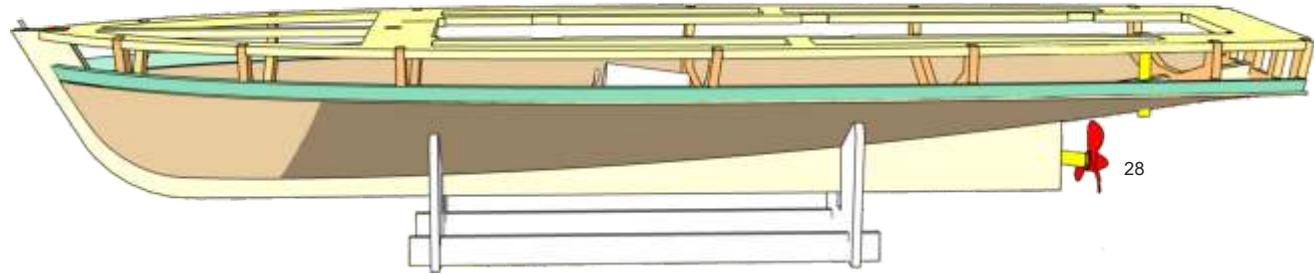
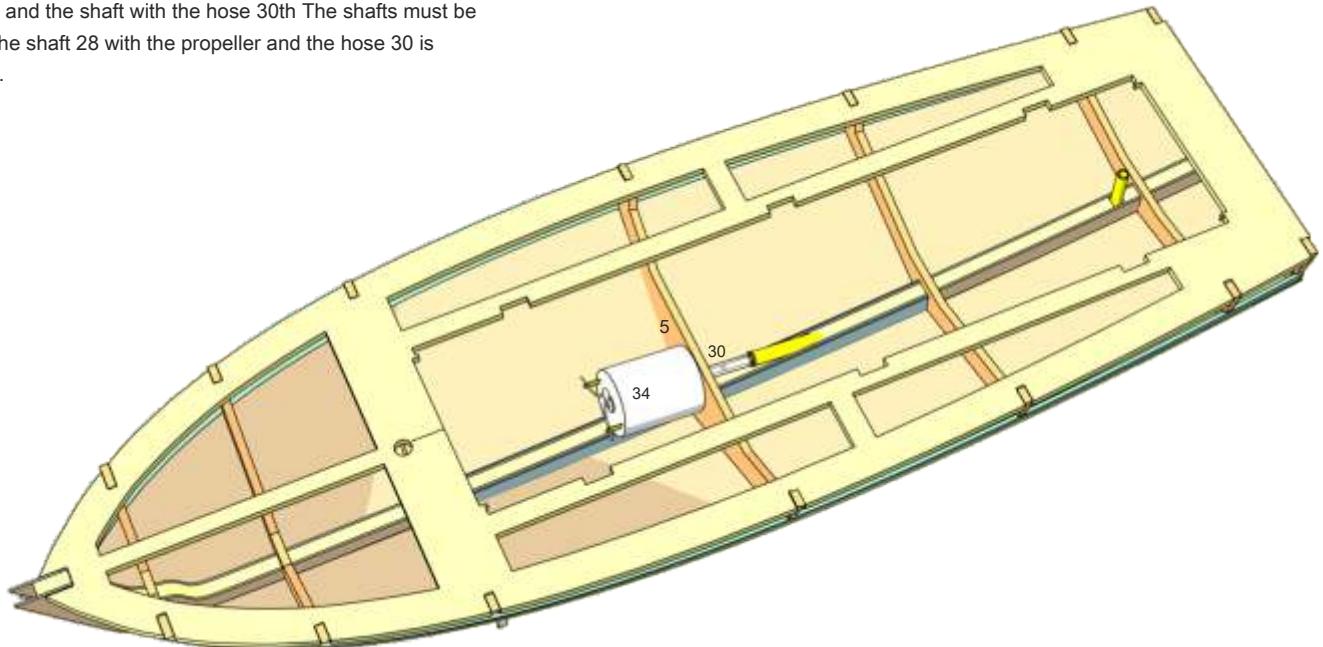
- 10 glue together the boatstand
from parts 22, 23 and 24th





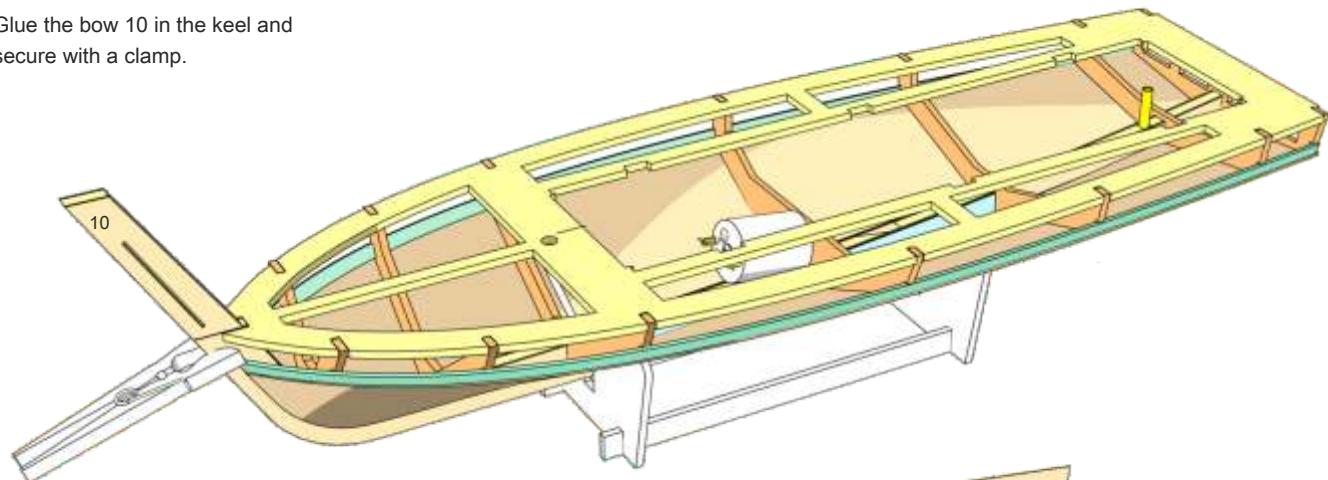
- 11 The bottom 19 ay fl on the frames, align the rear of the keel and the rudder trunk and secure to frame 8 with a clamp. Secure the bottom of frame 4 with a needle so that it does not slip. Press the ground with staples down on the frames and secure with masking tape at the bending bar 18 and the frame first

- 12 stuck the shaft of the propeller 28 through the shaft tube. Assemble the motor shaft and the shaft with the hose 30th The shafts must be in alignment. The shaft 28 with the propeller and the hose 30 is again removed.



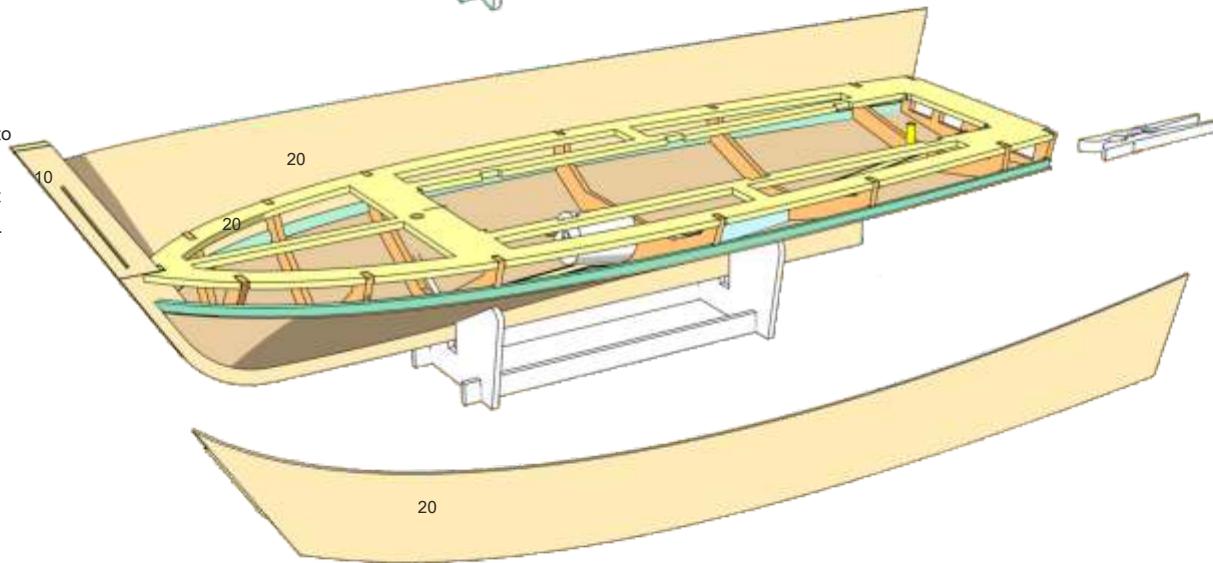
13

Glue the bow 10 in the keel and
secure with a clamp.

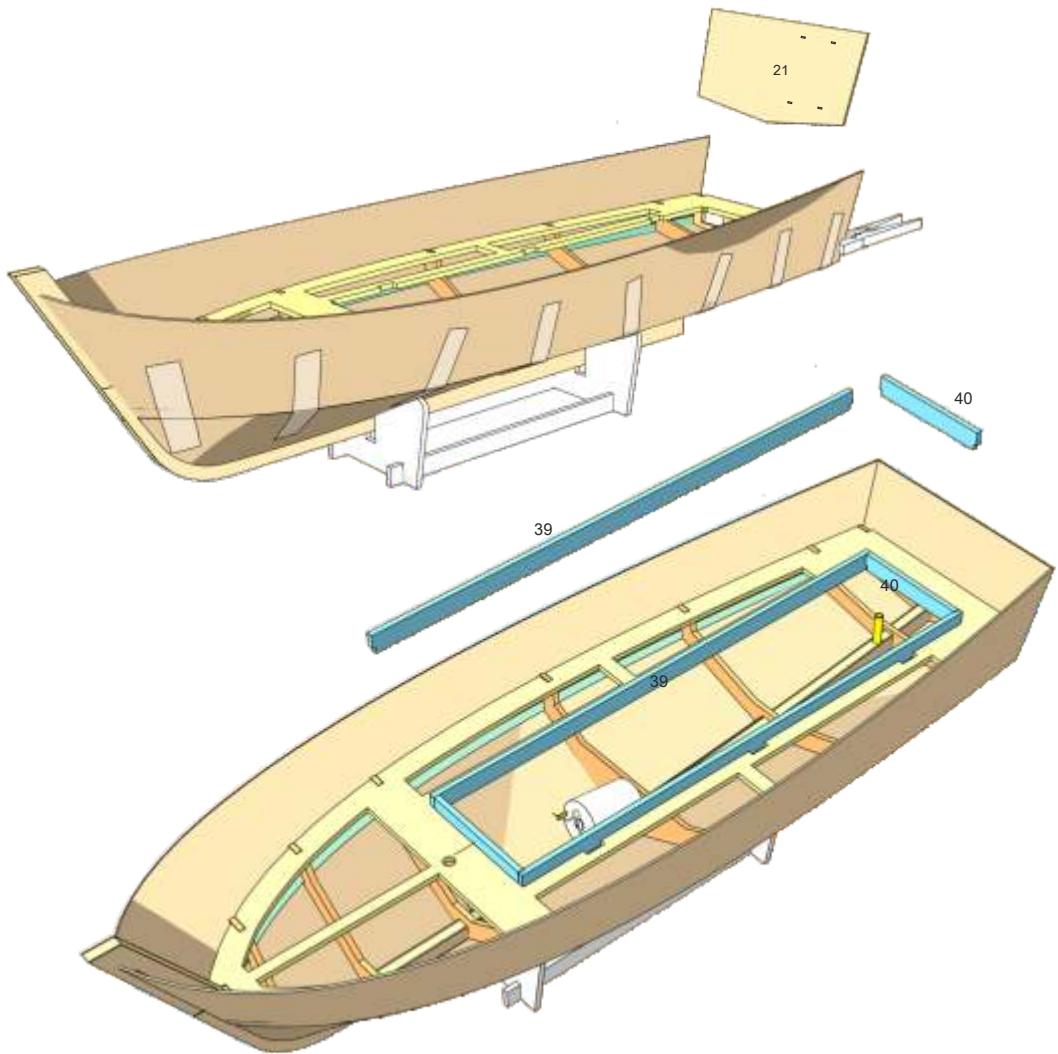


14

The side panels 20 front insert into
the bow 10 and get back with a
clamp. If everything fits, stick part
20 and secure with masking tape.
See next stage of construction.

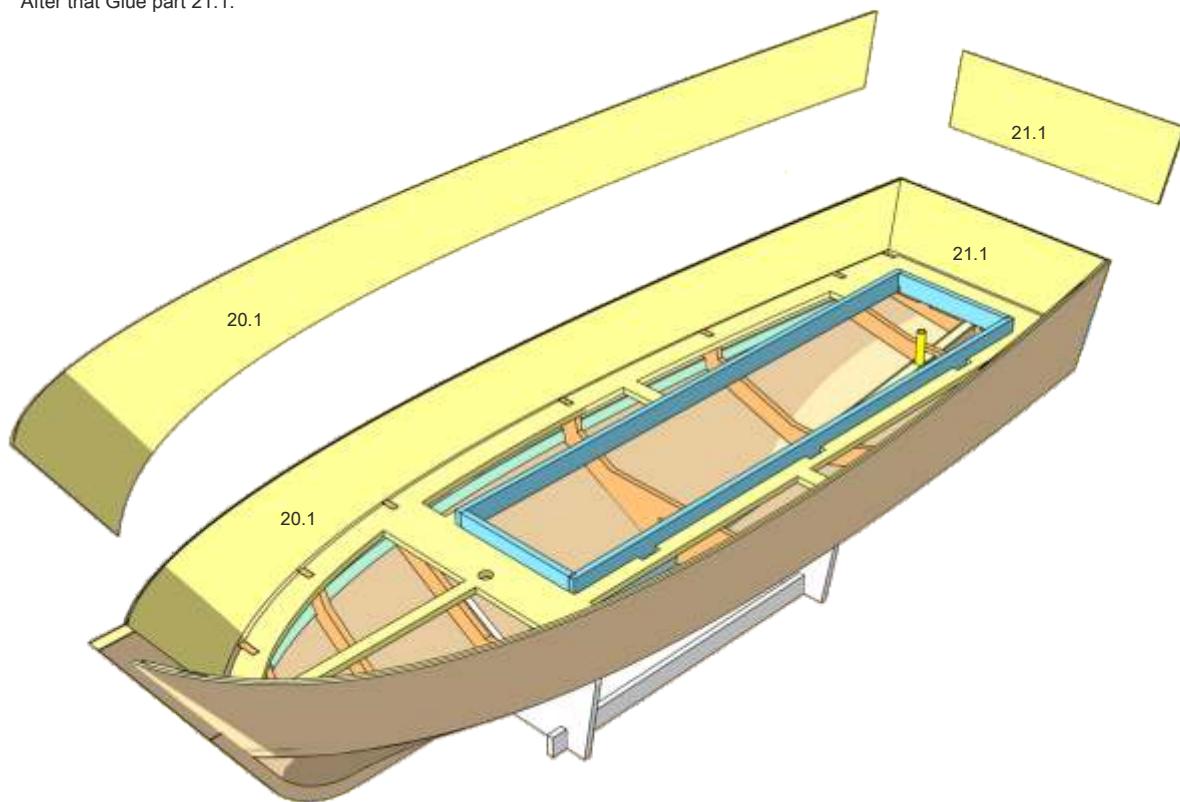


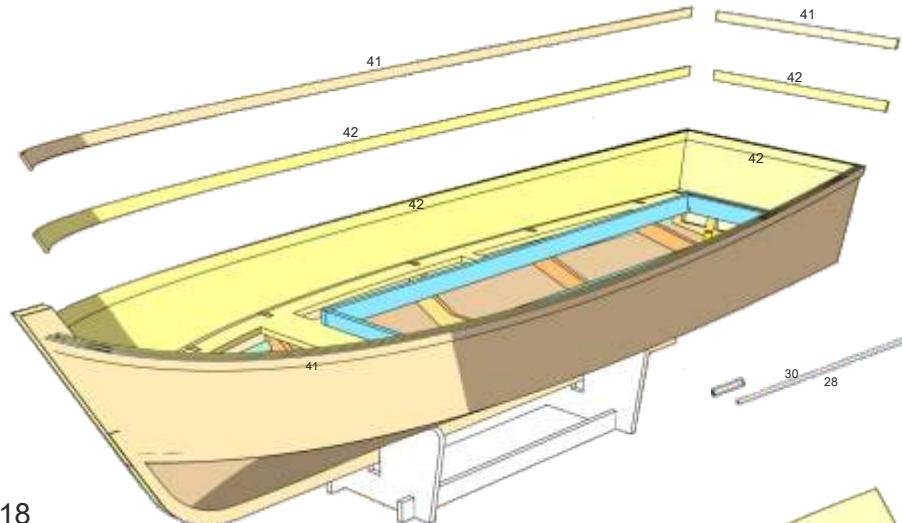
15 If the bond has dried, the stick mirror 21 from the rear.



- 17 20.1 parts of glue on the inside with UHU adhesive to the hull sides. With clips or tape backup so that they rest on the parts 20 altogether. Tip: Deck 25 can be temporarily used for secure positioning of the parts 20.1.

After that Glue part 21.1.



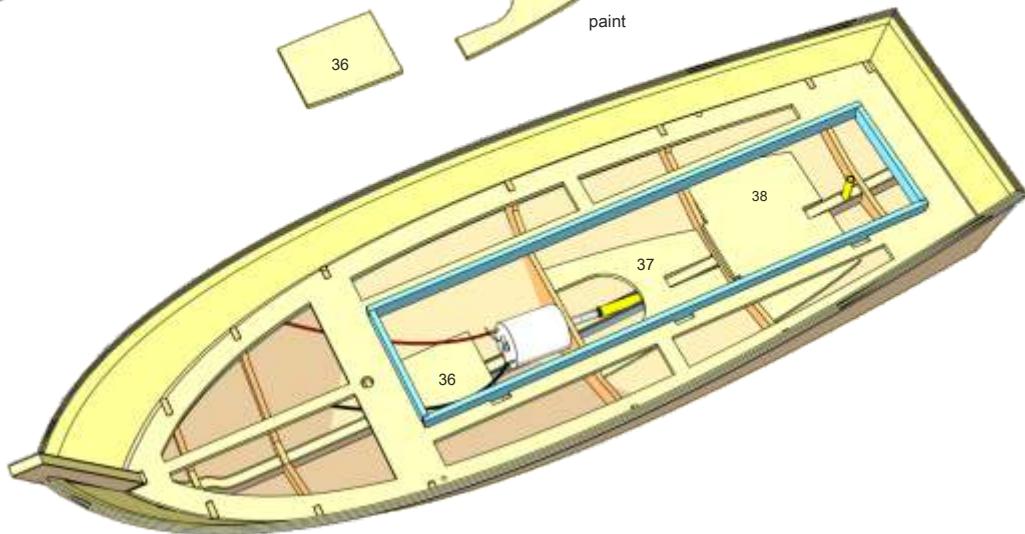
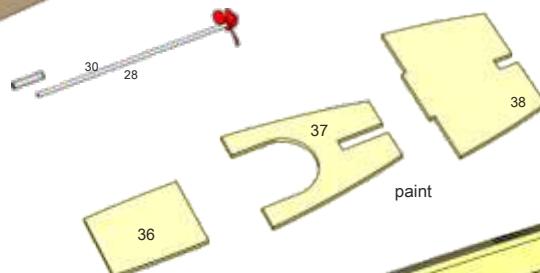


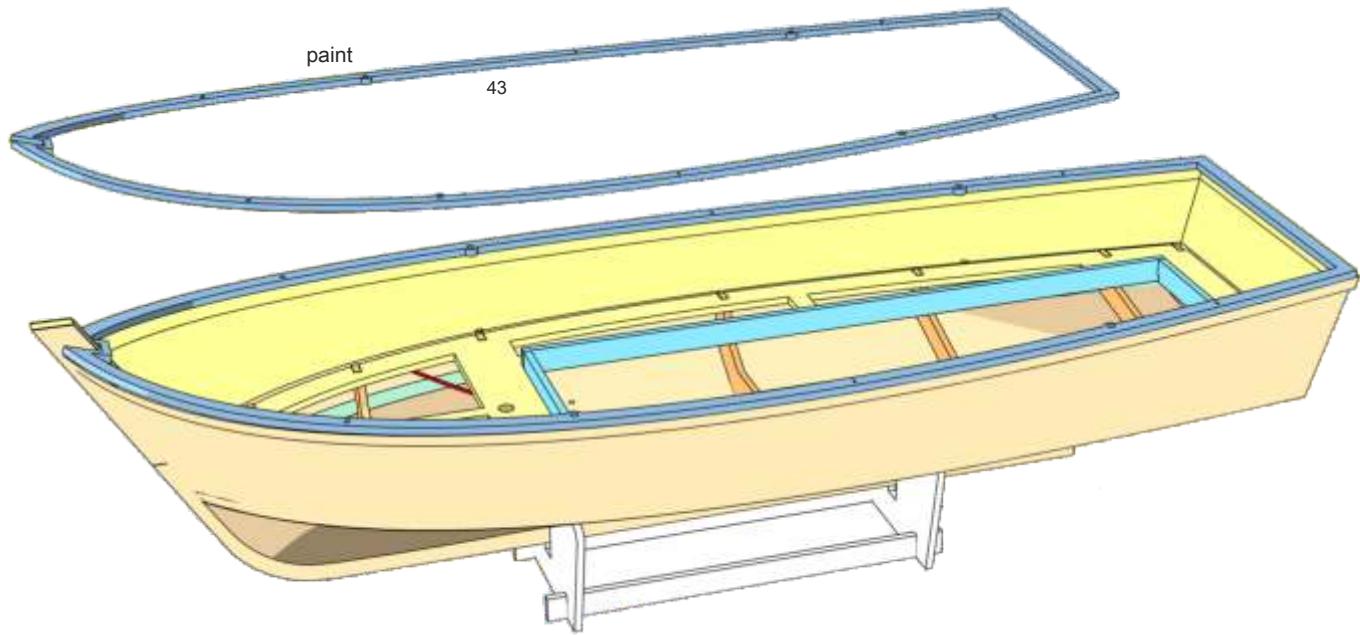
18

The strips 41 to the outer upper edge of the ledges 42 at the inner edge. They yield the substructure for the handrail. Prime the whole body inside and out with sealer. Shaft 28 and inserting check that the hull is waterproof with the propeller.

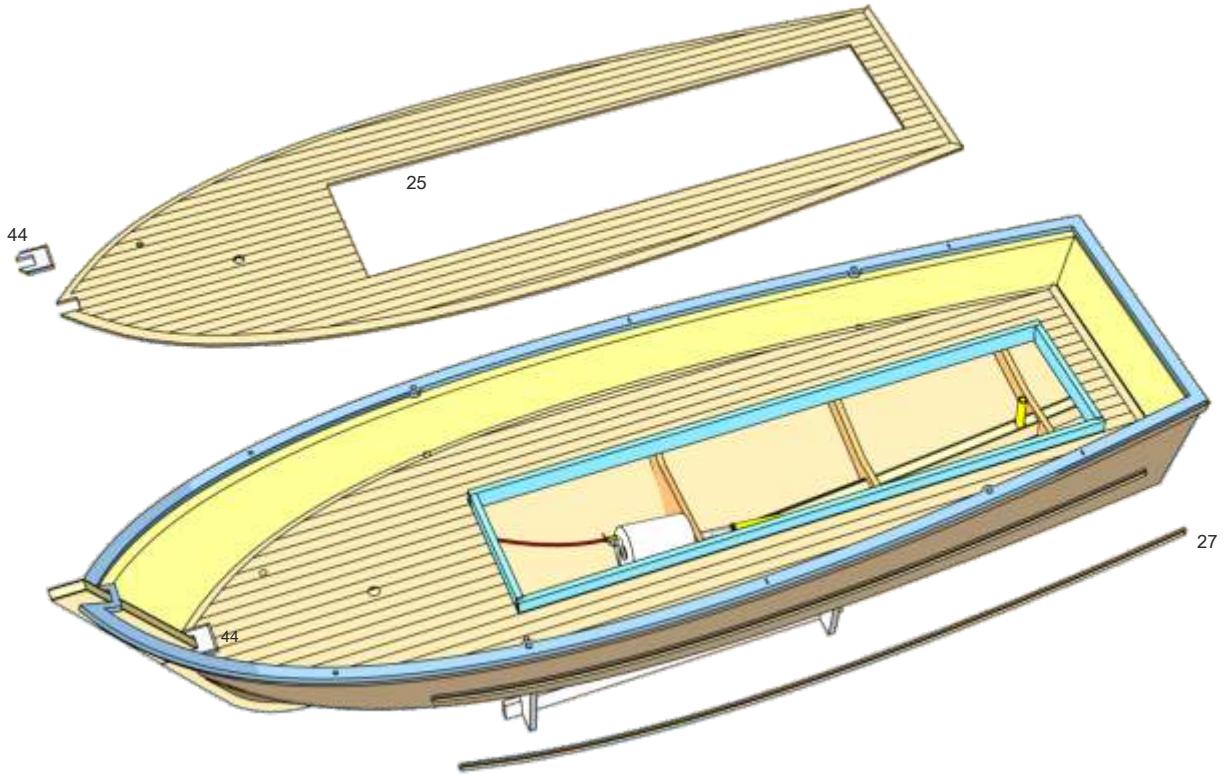
Then remove the shaft again and paint the hull in the desired color.

19 The Au flagen 36, 37 and 38 to paint and glue in the hull.



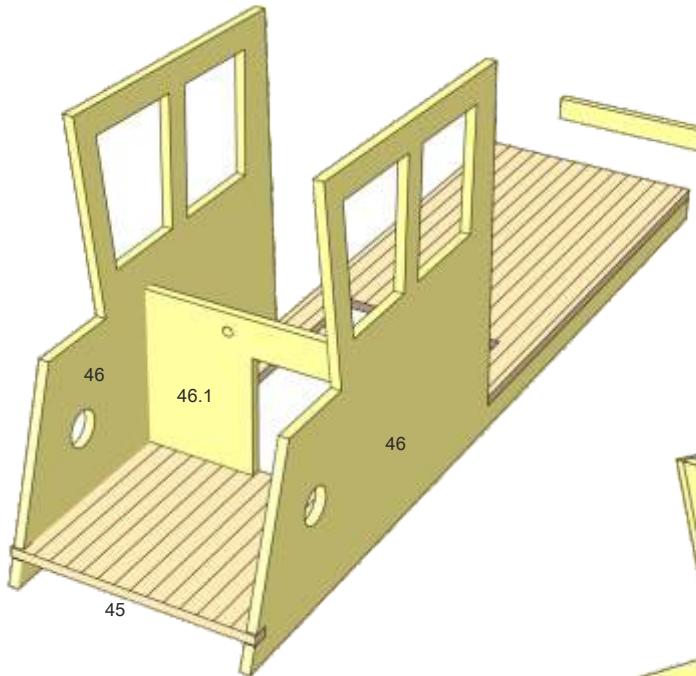


20 Paint the handrail 43 and stick.

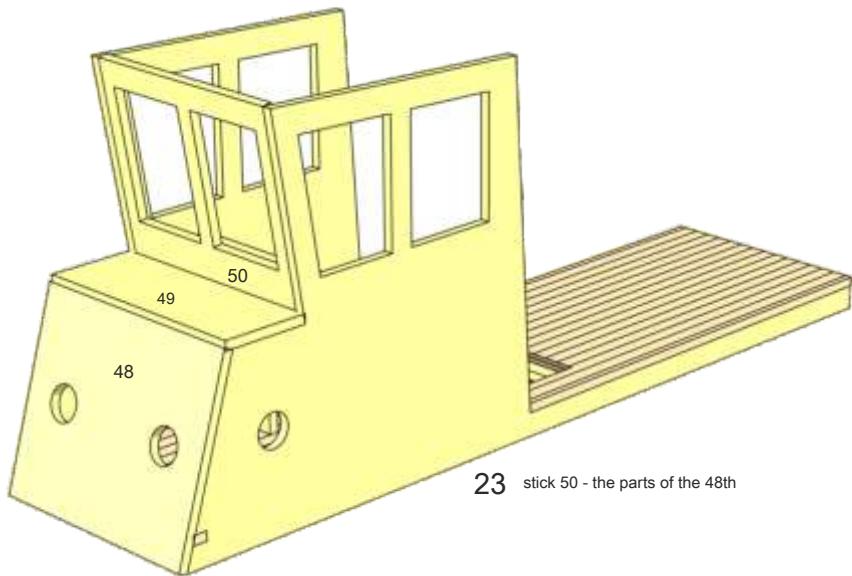


- 21 Adjust the deck 25 before the gluing and ensure that it fully fits on deck frame first. The deck 2 times prime, then paint with clear varnish and glue. Cover 44 of painting and stick. Skirting board 27 paint and glue to the fuselage.

Note: The rounded end of the skirting board facing forward.

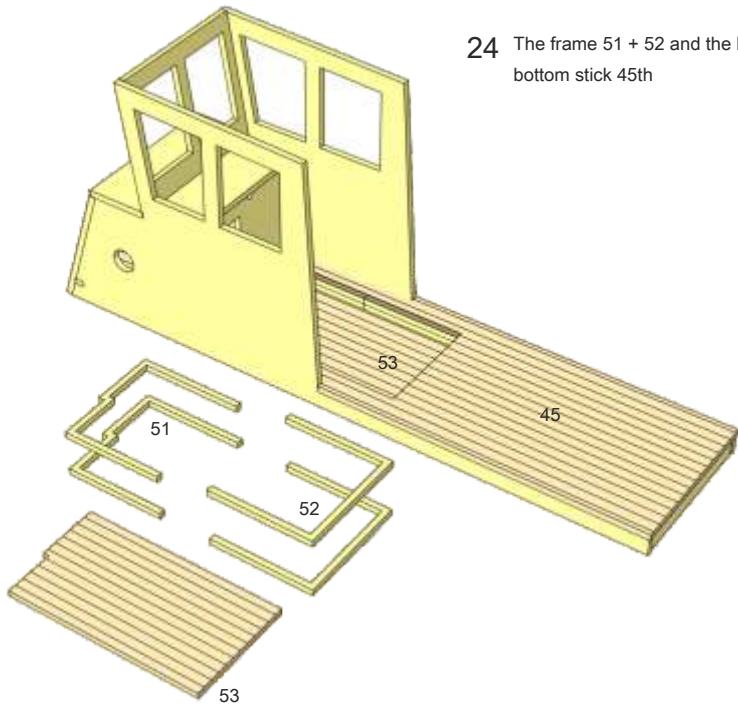


22 The construction of the wheelhouse of the parts 45 -
Are stuck together 47th

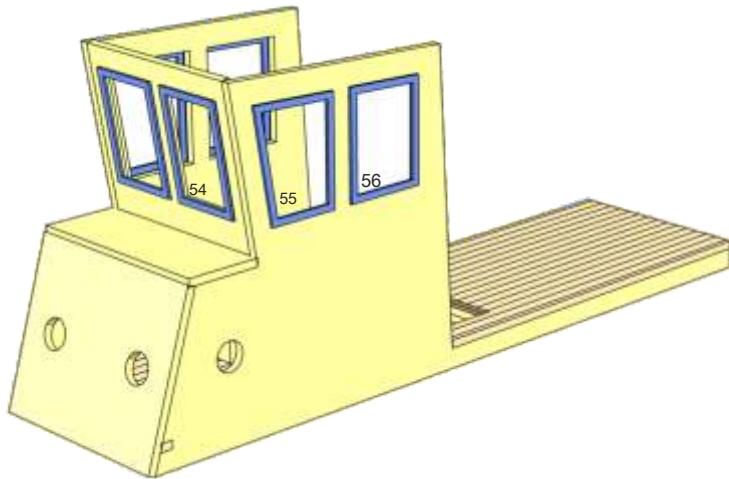


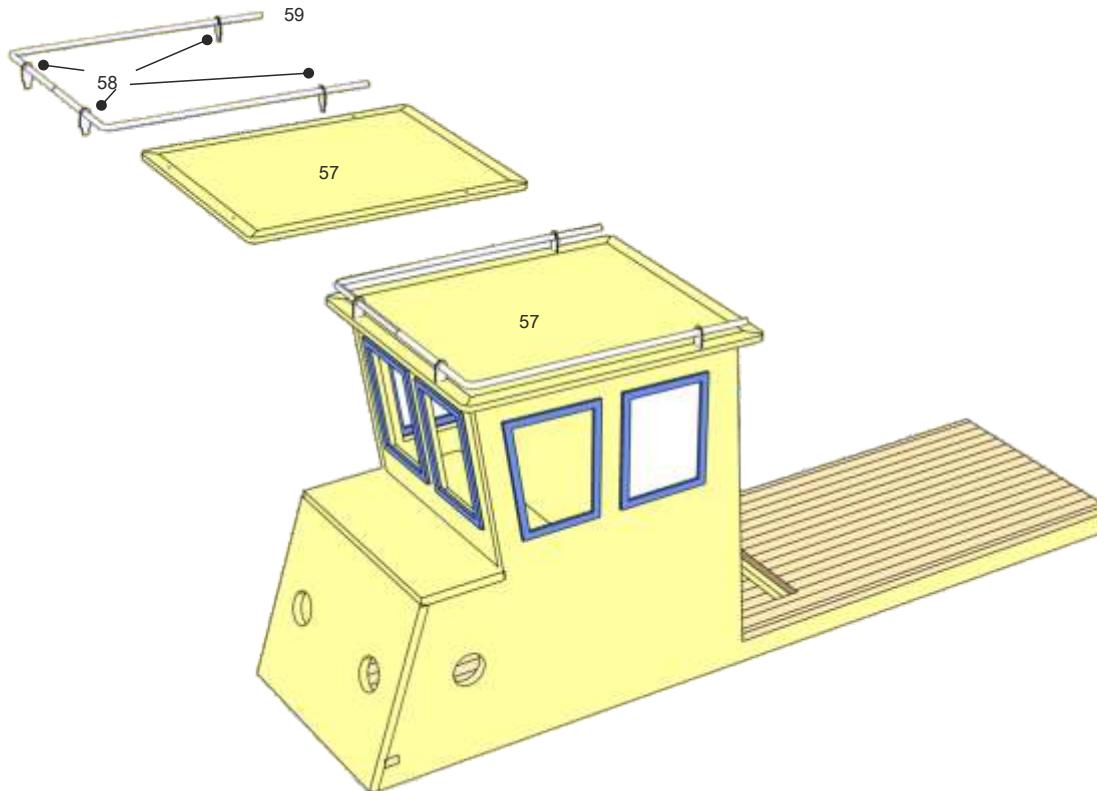
23 stick 50 - the parts of the 48th

24 The frame 51 + 52 and the bottom 53 below the
bottom stick 45th

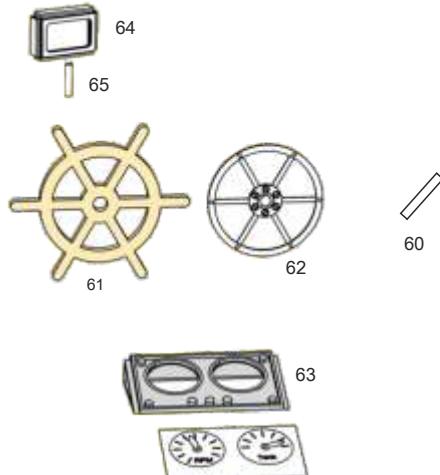
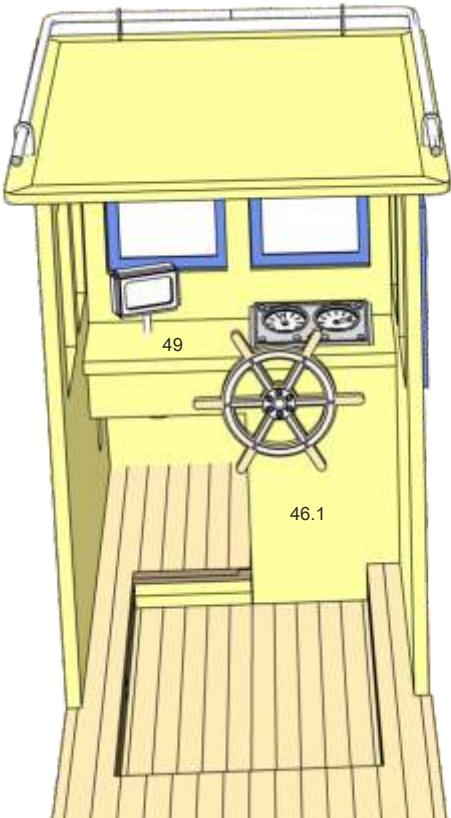


25 paint the building, the window frames 54-56 paint
and glue. The discs 54.1 -
Glue 56.1.

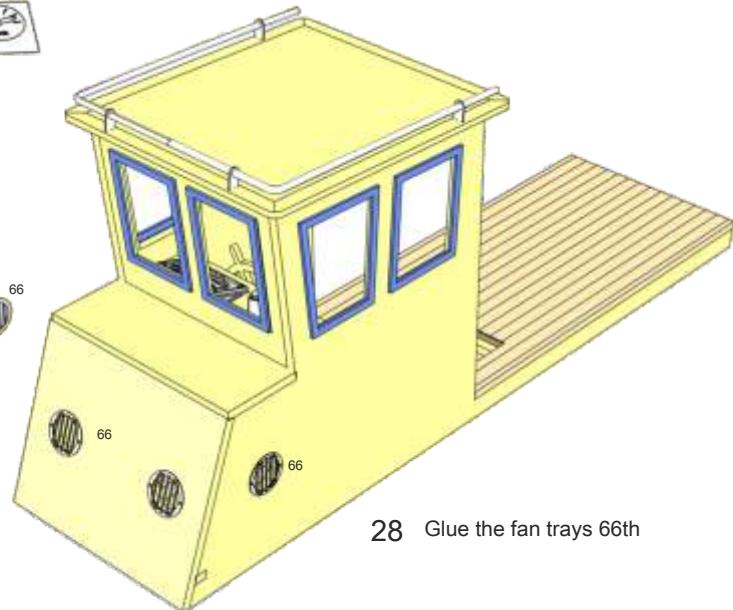




26 In the roof 57 the handrail from the parts 58 + 59 glue and paint. The roof only stick on the control house, after the equipment 61 to 65 are mounted.



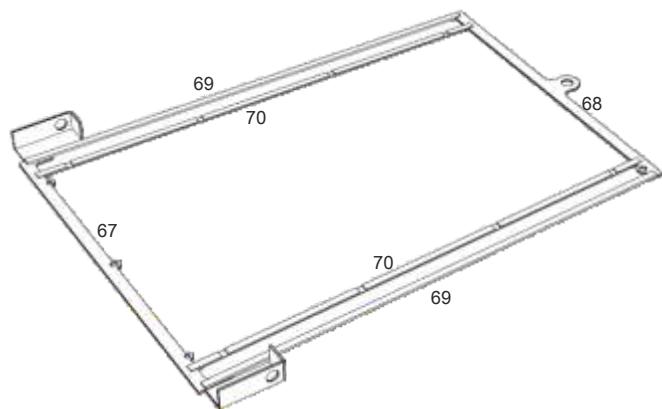
27 stick to the steering wheel 61 part 62nd The axis 60 of the rear glue in the steering wheel and the axis 60 in part 46.1. The Instrsumentengehäuse 63 bend, cut out the valves (on the last page), waterproof paint, and glue. turn the monitor 64 and stick to the foot 65 with part of the 49th



28 Glue the fan trays 66th



- 29 In part 67 on both sides of the position lamps turn as shown.

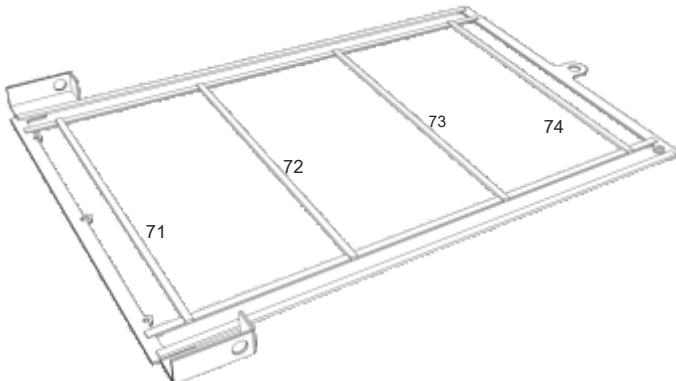


- 30 The sunroof of the parts 67 - to solder 70th

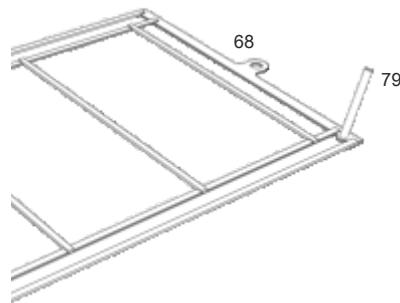


Watch out

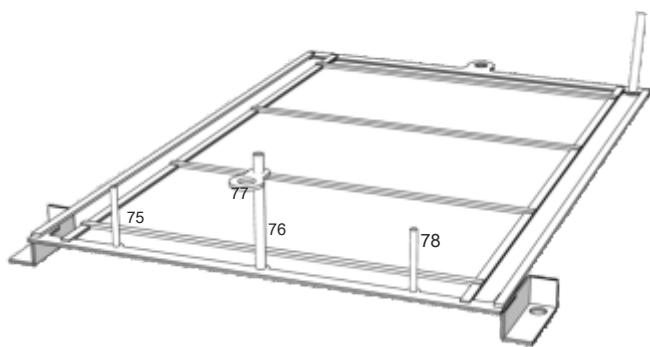
no solder may get into the groove of part 67 to the position lamp.



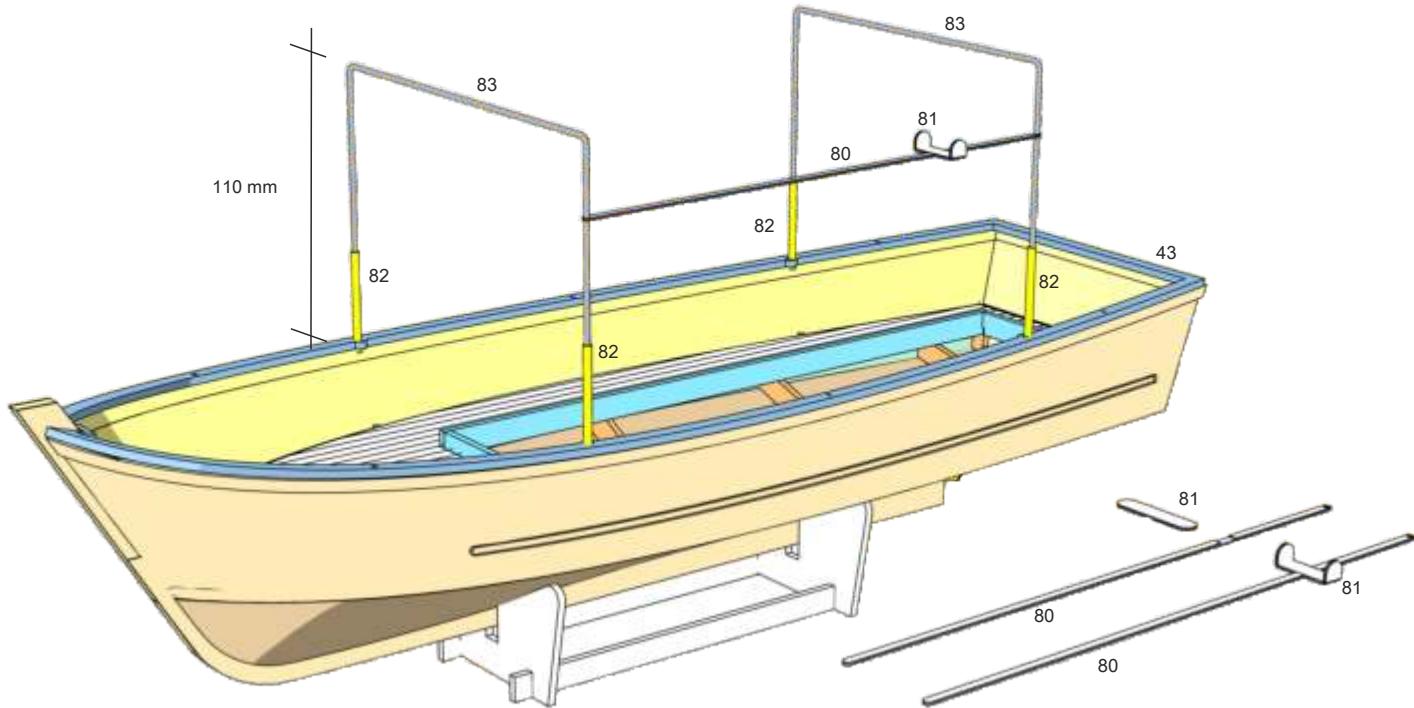
31 The cross beams 71-74 öten fl.



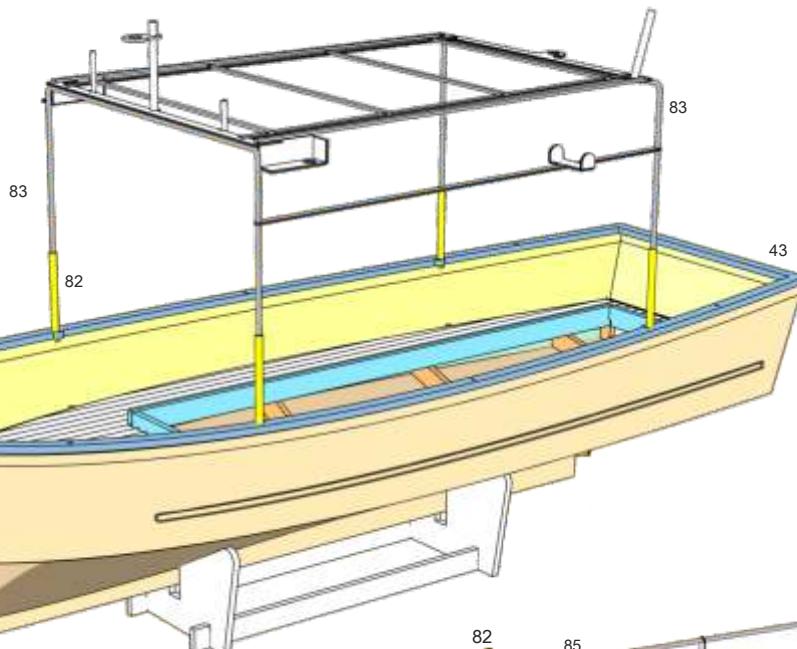
32 The pipe 79 for the flagpole obliquely rearward soldering part on 68th



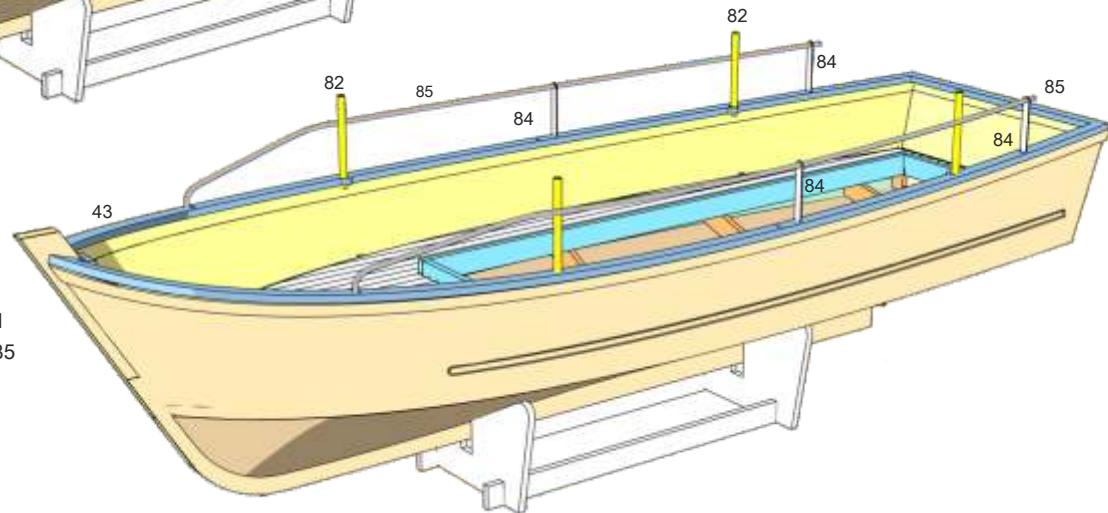
33 The tubes 75, 76, 78 and the bulb holder 77 öten fl.
The position lamps downward turn.



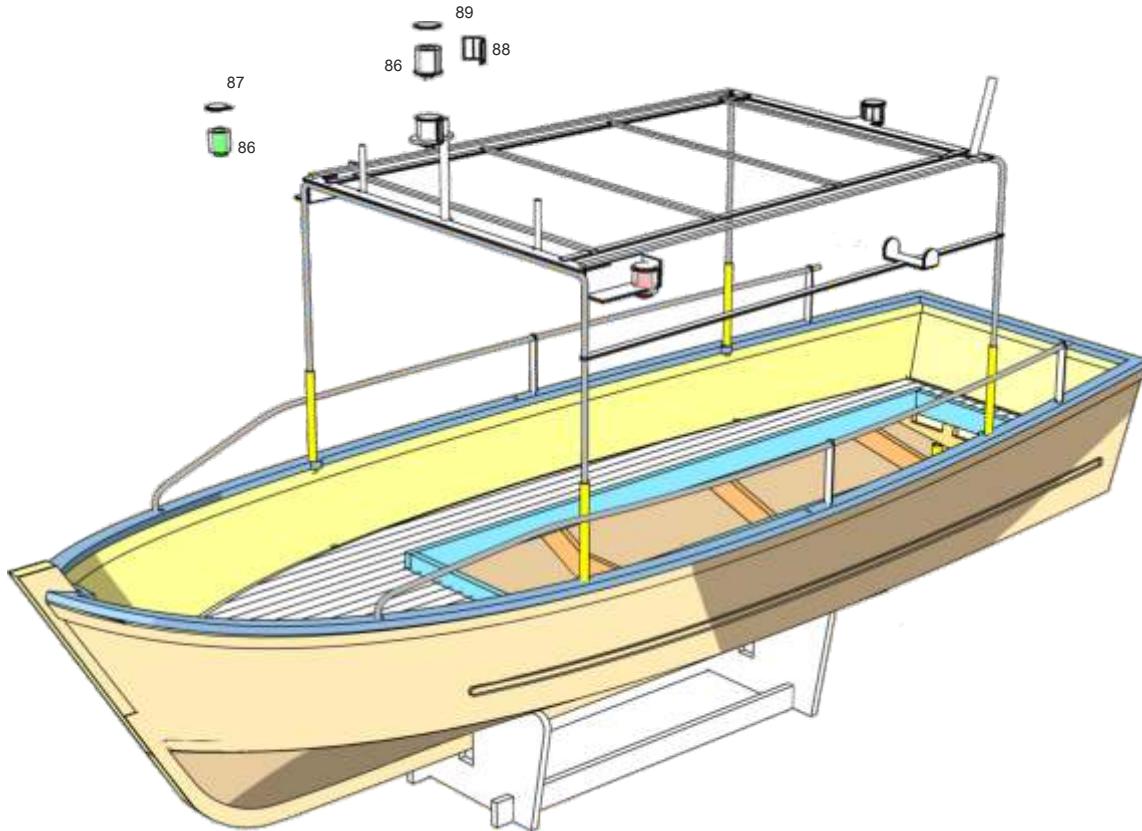
- 34 The tubes stuck in the holes of the handrail 43 82, these are provided on the underside about 2 mm above. Below the handrail 43, the tubes are slightly squashed 82 so that the wires 83 have a stroke. The holder 81 turn for the rescue rings and öten fl on the cross strut 80th The cross-bar 80 attach to the wires 83rd



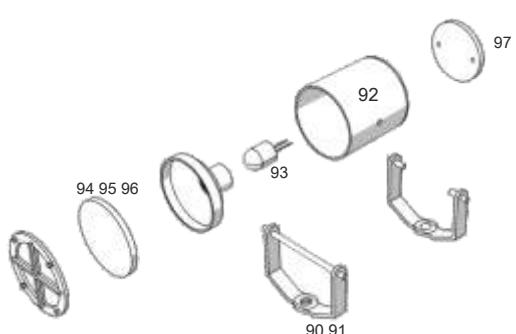
35 The roof on the wires 83 fl öten.
The tubes 82 adhere to the
handrail 43rd



36 The wire 85 turn on the railing. The
stanchions 84 slide on the wire and
glue in the handrail 43rd The wire 85
with the tubes 82 solder.



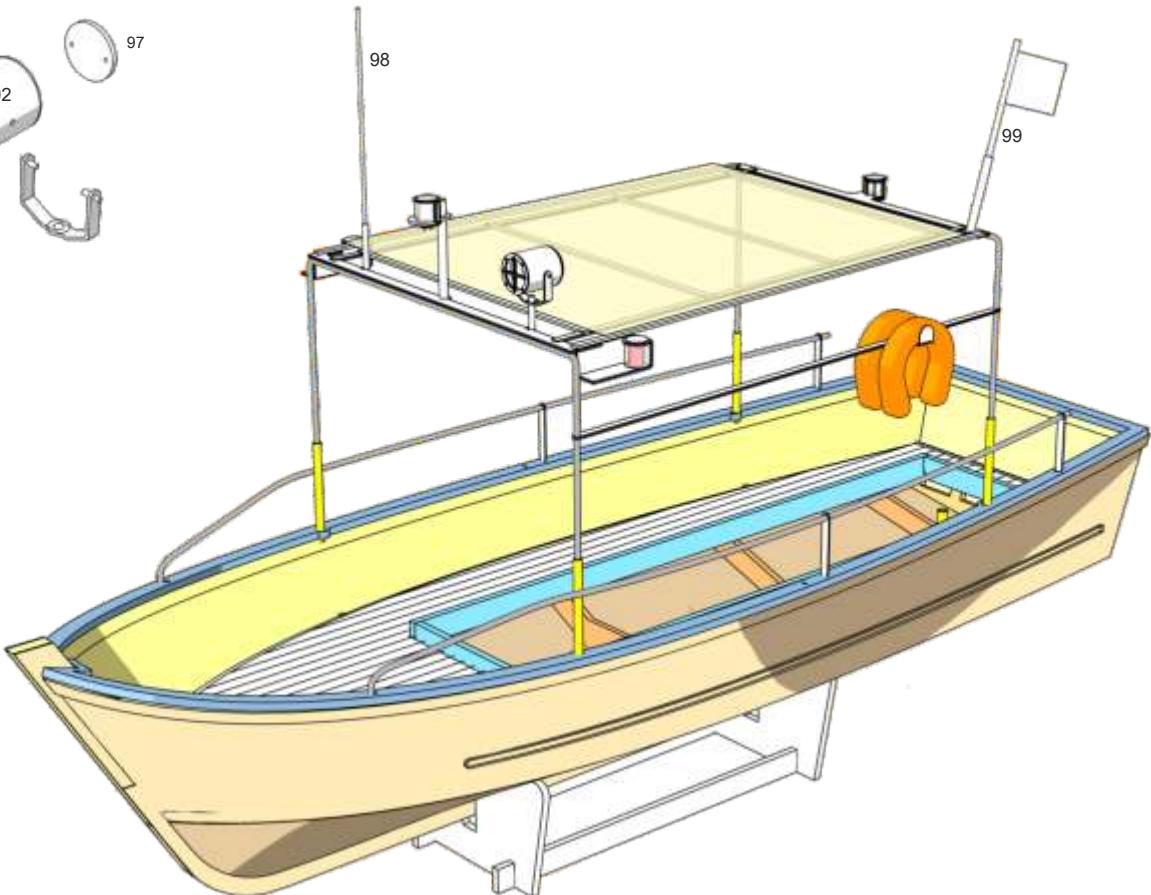
37 Glue the position lights from the parts 86 + 87 in the bracket to the roof. The lamps of the parts 86, 88 + 89 sticking together and glue the front and rear to the frame of the sunroof.

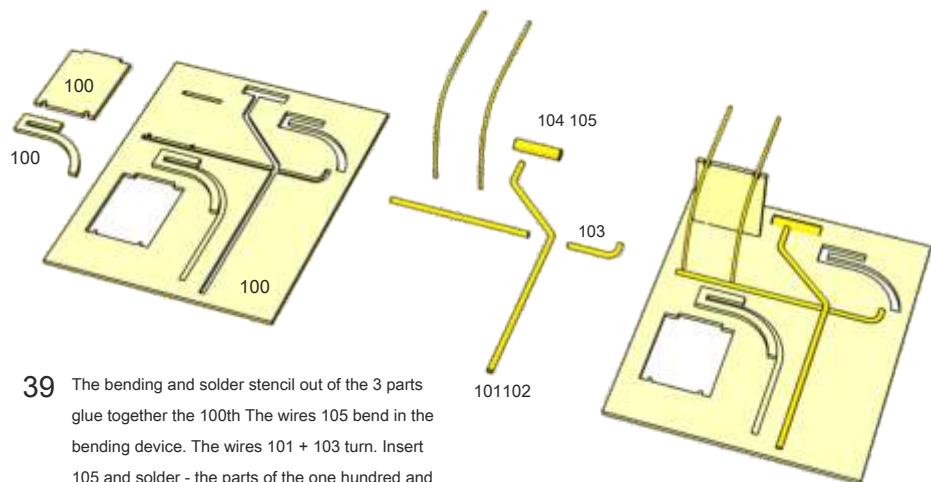


38

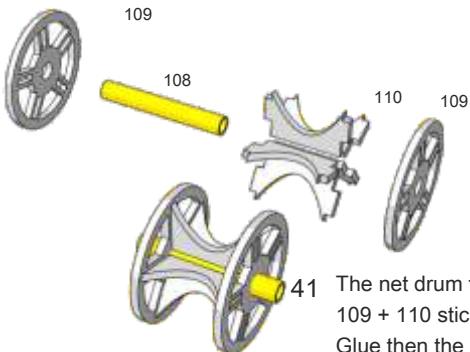
The foot 90 turn for the spotlight and solder the axis 91st Cut the axis 91 so that the left and right side each about 1.5 mm remain on the inside. Drill into the housing right + left a hole of 1 mm. The

Headlights from the parts 92 - Are stuck together 97th The LED 93 is not bonded. Insert the antenna 98 and the flagpole 99th

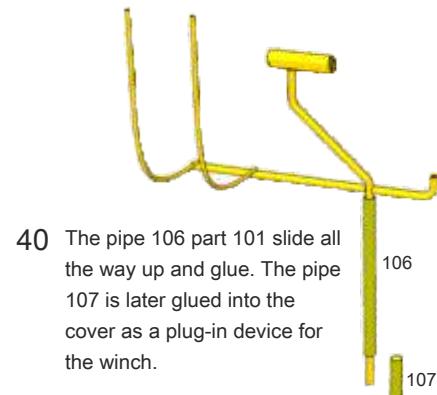




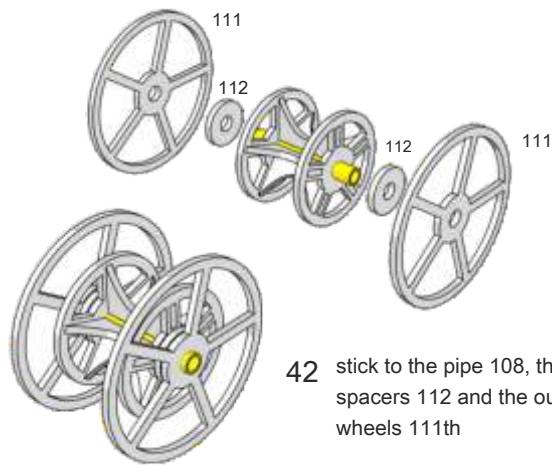
39 The bending and solder stencil out of the 3 parts glue together the 100th The wires 105 bend in the bending device. The wires 101 + 103 turn. Insert 105 and solder - the parts of the one hundred and first



41 The net drum from parts 109 + 110 stick together. Glue then the tube 108th

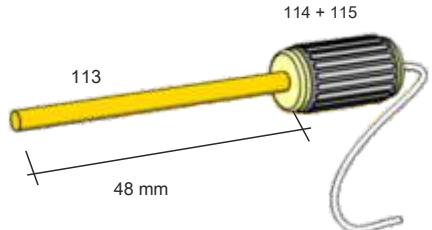


40 The pipe 106 part 101 slide all the way up and glue. The pipe 107 is later glued into the cover as a plug-in device for the winch.

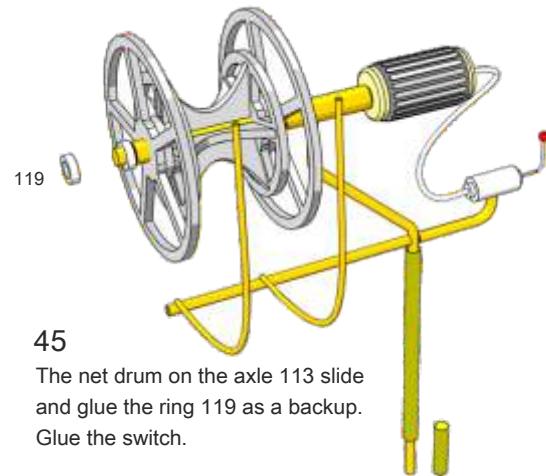


42 stick to the pipe 108, the spacers 112 and the outer wheels 111th

43 In the motor housing 114 mm Ø hole 3 and 6 mm drill depth. Glue the axis 113th Around the motor housing 114 bend the sheet 115 and stick.

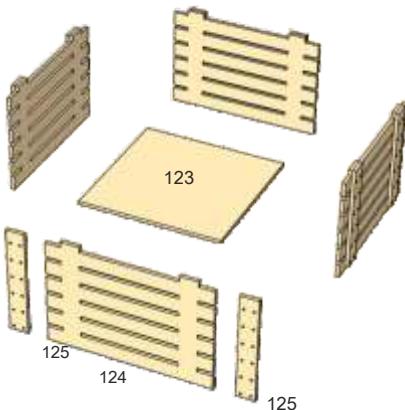
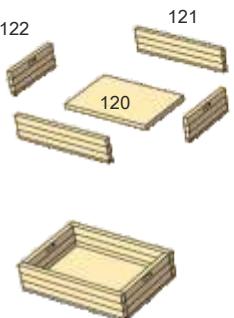


44 In part 117, a hole in the middle with two drill mm. glue together the switch from the parts 116 -117.

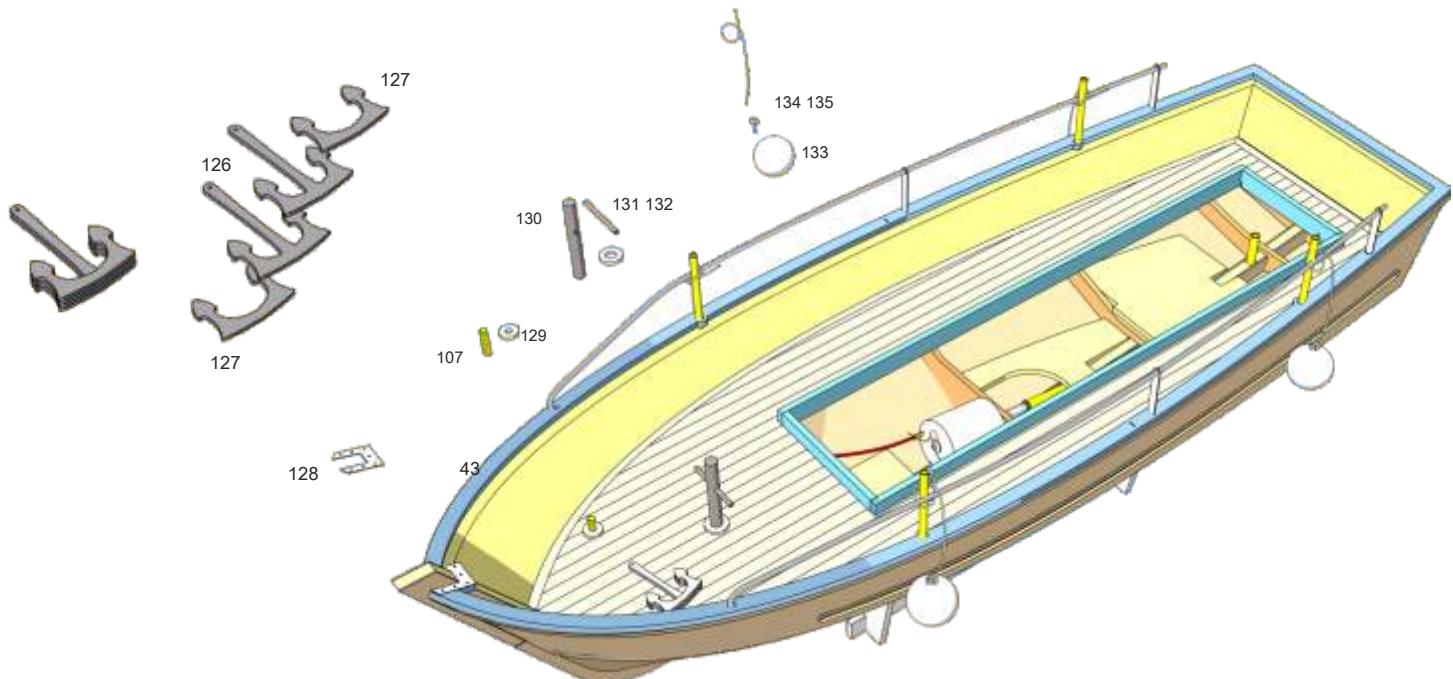


45 The net drum on the axle 113 slide and glue the ring 119 as a backup. Glue the switch.

46 The small boxes of parts 120 - Are stuck together 122nd



47 The big box of parts 123 - stick together 125th



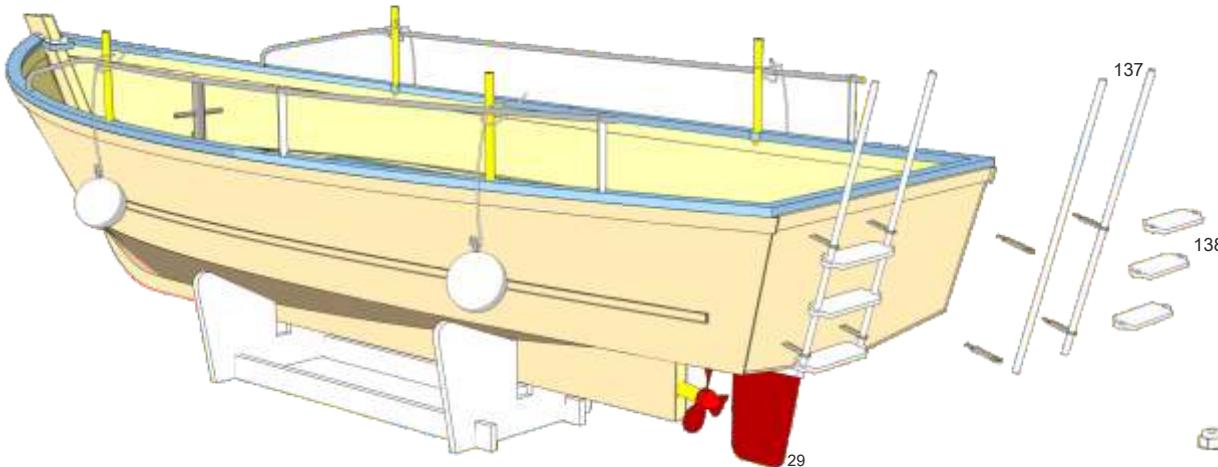
48 glue together the anchor of the parts 126 + 127th

Through part 130 is a hole with 2 mm holes for the passage of part 131 and stick the bollard on the deck with the rosette 132nd

107 glue the pipe with the rosette 129 into the cover, in this case the net winch is then inserted. The front cover

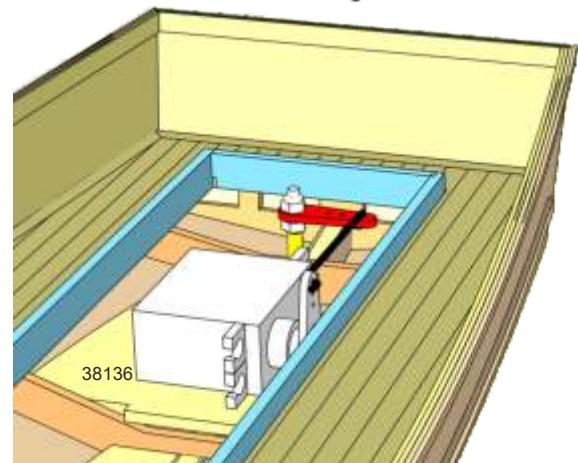
128 stick to the handrail 43rd

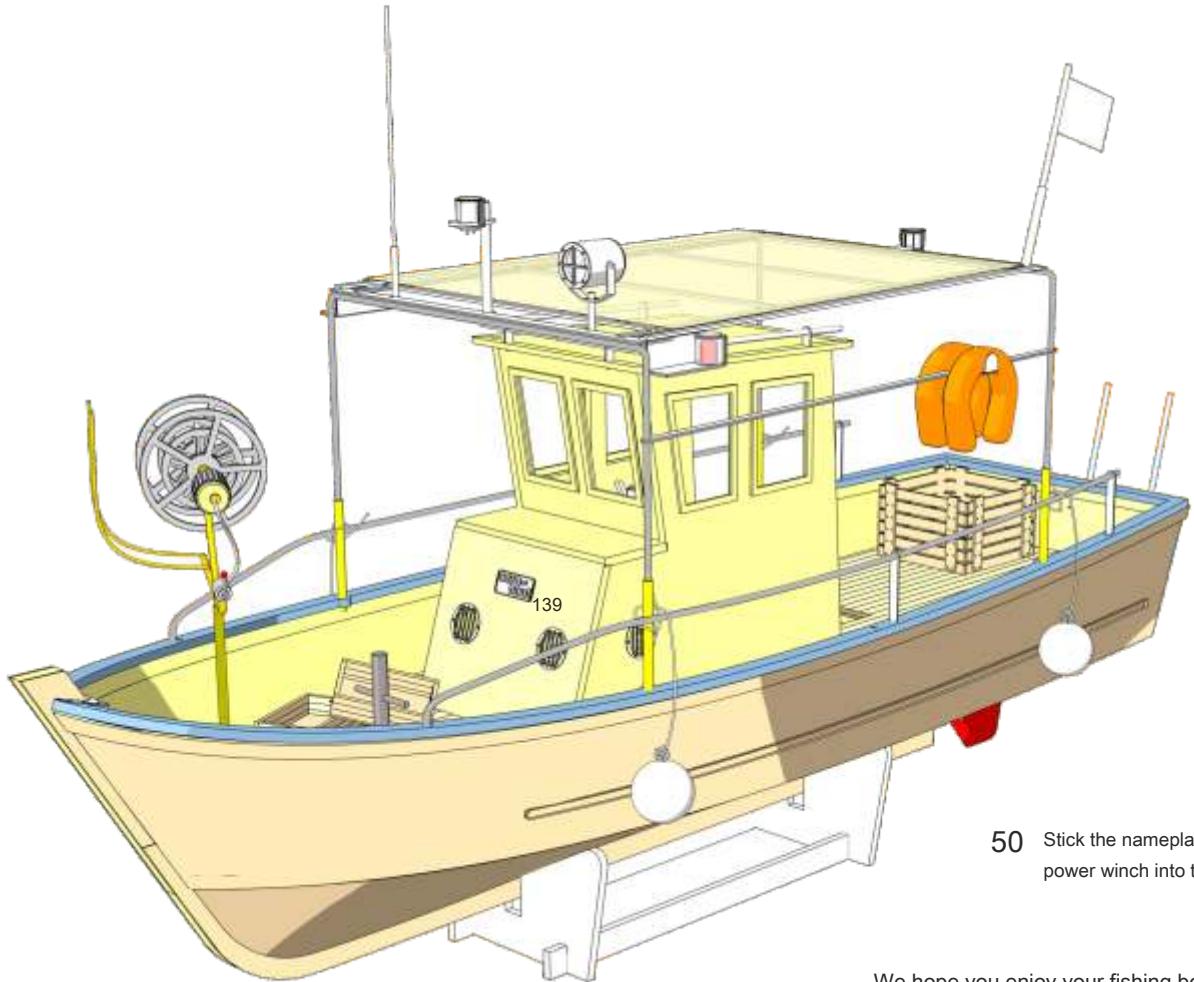
Glue in the Fender 133 eyebolts 134 and tie with string 135th



49 The carrier 136 glue for the conductors, insert the wire 137 and the stage 138 together by the holders 136 and glue. Rudder stick 29 from below into the rudder trunk 26th

stuck on the rudder shaft washer 33 and screwed on far at the helm, the lock nut 31, the rudder that can still be easily moved. Attach the tiller 32 and secure with the second stop nut 31st





50 Stick the nameplate 139 and plug the power winch into the pipe 107th

We hope you enjoy your fishing boat.



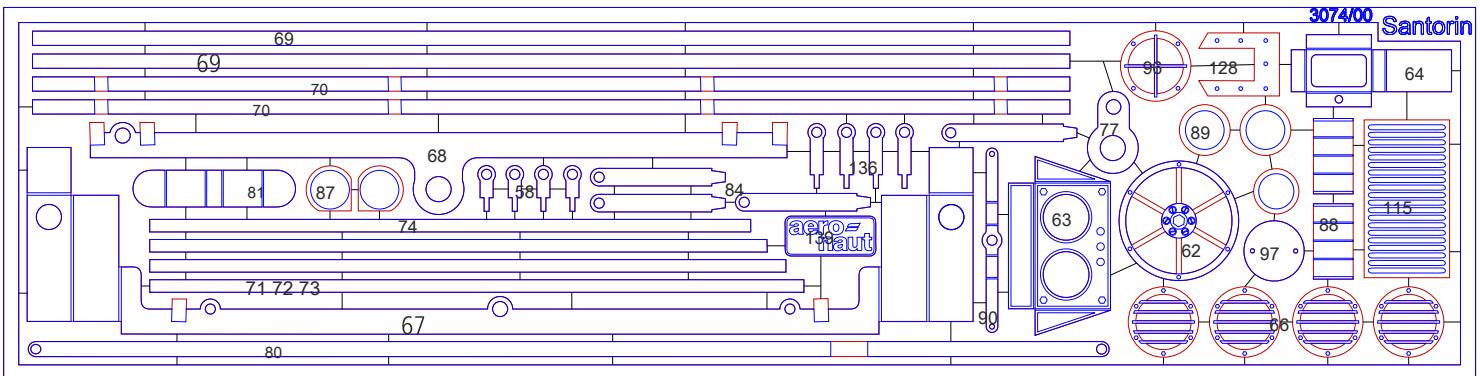
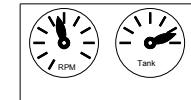
pt0 Description	piece	material	laser disk	shape	Dimensions
1 cover frame (Helling)	1	Poplar plywood	1	laser part	3 mm
2 frame	1	Poplar plywood	1	laser part	3 mm
3 frame	1	Poplar plywood	2	laser part	3 mm
4 frame	1	Poplar plywood	2	laser part	3 mm
5 Moorspannt	1	Poplar plywood	2	laser part	3 mm
6 frame	1	Poplar plywood	2	laser part	3 mm
7 frame	1	Poplar plywood	2	laser part	3 mm
8 frame	1	Poplar plywood	2	laser part	3 mm
9 sanding block	2	Poplar plywood	1	laser part	1.5 mm
10 Kiel front	1	Abachi	3	laser part	5 mm
11 Kiel center	1	Abachi	3	laser part	5 mm
12 Kiel-wave tube	1	Abachi	3	laser part	5 mm
13 Kiel rear	1	Abachi	3	laser part	5 mm
14 box sides	2	plywood	4	laser part	0.8 mm
15 Kite page	2	plywood	4	laser part	0.8 mm
15.1 edition hull bottom	2	Birch plywood	4	laser part	0.8 mm
15.2 edition hull bottom	2	Birch plywood	4	laser part	0.8 mm
16 shaft tube	1	Brass	CUT		5 / 4.1 x 120 mm
18 Kinkeleis	2	plywood	9	laser part	1.5 mm
19 hull bottom L + R	2	Maple textile	5	laser part	0.7 mm
20 hull sides L + R	2	Maple textile	6	laser part	0.7 mm
20.1 inside hull	2	Maple textile	5	laser part	0.8 mm
21 mirror, the rear side of the fuselage	1	Maple textile	6	laser part	0.7 mm
21.1 mirror inside the fuselage behind	1	Maple textile	5	laser part	0.6 mm
22 boatstand front	1	Poplar plywood	2	laser part	3 mm
23 boatstand back	1	Poplar plywood	2	laser part	3 mm
24 connector boatstand	2	Poplar plywood	1	laser part	3 mm
25 Boat Deck	1	Birch plywood	9	laser part	1.5 mm
26 rudder trunk	1	Brass	CUT		4 / 3.1 x 30 mm
27 sailing board	2	Maple textile	6	laser part	0.7 mm
28 propeller shaft with	1	plastic	precast		30 mm
29 roring	1	plastic	precast		
30 coupling	1	Plastic hose	precast		
31 Stoppermutter	2	metal	precast	M3	
32 Ruderhorn	1	Birch plywood	9	laser part	1.5 mm
33 washer	1	metal	precast		
34 Motorrace 280	1	metal	precast		
34.1 suppression capacitor	1	Ceramics, 47 nF	precast		
34.2 Cable Red + Black	2		CUT		
35 tapping screw	2	metal	precast		2.2 x 9.5 mm
36 edition battery	1	Poplar plywood	2	laser part	3 mm
37 edition RC receiver	1	Poplar plywood	10	laser part	3 mm
38 edition Servo	1	Poplar plywood	2	laser part	3 mm
39 Sulstrand	2	Poplar plywood	10	laser part	3 mm
40 Sulstrand	2	Poplar plywood	10	laser part	3 mm
outside 41 reinforcing side wall	3	Maple textile	laser part		0.7 mm
42 reinforcing side wall inside	3	Maple textile	6	laser part	0.7 mm
43 handrail	1	Poplar plywood	1	laser part	3 mm
44 cover	1	Birch plywood	4	laser part	0.8 mm
45 Ground Control House	1	Poplar plywood	10	laser part	3 mm
46 side parts wheelhouse	2	Poplar plywood	2	laser part	3 mm
47 Seientell back	1	Poplar plywood	2	laser part	3 mm
48 front wall wheelhouse	1	Poplar plywood	2	laser part	3 mm
49 cover	1	Poplar plywood	2	laser part	3 mm

P 10 Description	piece	material	laser disk	shape	Dimensions	comment
50 Front wheelhouse	1	Poplar plywood	2	laser part	3 mm	
51 frames	2	Poplar plywood	1	laser part	3 mm	
52 frames	2	Poplar plywood	1	laser part	3 mm	
53 bottom wheelhouse	1	Poplar plywood	10	laser part	3 mm	
54 window frame front	2	Maple textile	6	laser part	0.7 mm	
54.1 disc for wheelhouse	2	Vivak	8th	laser part	0.5 mm	
55 Frames front	2	Maple textile	6	laser part	0.7 mm	
55.1 disc for wheelhouse	2	Vivak	8th	laser part	0.5 mm	
56 window frame front	2	Maple textile	6	laser part	0.7 mm	
56.1 disc for wheelhouse	2	Vivak	8th	laser part	0.5 mm	
57 roof wheelhouse	1	Birch plywood	7	laser part	1.5 mm	
58 Dusch zu handrail	4	nickel silver		Altzteil	0.5 mm	
59 handrail roof	1	brass wire		cut	2x270 mm	cut from Pos. Z3
60 for steering axis	1	brass wire		cut	3x30 mm	cut from Pos. Z4
61 steering	1	Birch plywood	9	laser part	1.5 mm	
62 steering	1	nickel silver		Altzteil	0.5 mm	
63 instrument Enclosures	1	nickel silver		Altzteil	0.5 mm	
64 monitor	1	nickel silver		Altzteil	0.5 mm	
65 feet for Monitor	1	Mesingdraht		cut	1,5x20 mm	cut from Pos. Z2
66 Fan plate	4	nickel silver		Altzteil	0.5 mm	
67 sunroof front	1	nickel silver		Altzteil	0.5 mm	
68 sunroof rear	1	nickel silver		Altzteil	0.5 mm	
69 sunroof side	2	nickel silver		Altzteil	0.5 mm	
70 sun roof rail	2	nickel silver		Altzteil	0.5 mm	
71-74 sunroof cross Träger	4	nickel silver		Altzteil	0.5 mm	
75 feet for antenna	1	brass tube		cut	2 / 1x30 mm	cut from Pos. Z5
76 feet for lamp	1	brass tube		cut	3 / 2x35 mm	cut from Pos. Z6
77 lamp holder	1	nickel silver		Altzteil	0.5 mm	
78 feet for headlights	1	brass tube		cut	2 / 1x20 mm	cut from Pos. Z5
79 foot for flagstick	1	brass tube		cut	3 / 2x25 mm	cut from Pos. Z6
80 crossbar sunroof	1	nickel silver		Altzteil	0.5 mm	
81 holder for lifebuoy	1	nickel silver		Altzteil	0.5 mm	
82 feet for sunroof	4	brass tube		cut	3 / 1x40 mm	cut from Pos. Z6
83 carriers for sunroof	2	brass wire		cut	2x365 mm	cut from Pos. Z3
84 stanchion	4	nickel silver		Altzteil	0.5 mm	
85 rail	2	brass wire		cut	2x370 mm	cut from Pos. Z3
86 lamp glass	4	plastic		precast		
87 position lamp cover	2	nickel silver		Altzteil	0.5 mm	
88 Reflector lamp	2	nickel silver		Altzteil	0.5 mm	
89 lamp cover above	2	nickel silver		Altzteil	0.5 mm	
90 feet for headlights	1	nickel silver		Altzteil	0.5 mm	
Pivot axis 91 for headlights	1	brass wire		cut	1x20 mm	cut from Pos. Z1
92 housing for headlights	1	ASA		cut	14x15 mm	
93 LED Headlight	1			precast	5 mm	
94 Reflector for headlights	1	plastic		precast		
95 panels for spotlights	1	Vivak	8th	laser part	0.5 mm	
96 cover for headlights	1	nickel silver		Altzteil	0.5 mm	
97 back wall for headlights	1	nickel silver		Altzteil	0.5 mm	
98 antenna	1	Mesingdraht		cut	1x80 mm	cut from Pos. Z1
99 flange	1	Beech round rod		cut	2x40 mm	
100 Sollering + bending template	3 pieces	Poplar plywood	7	laser part	3 mm	
101 wind mast	1	brass wire		cut	2x100 mm	cut from Pos. Z3
102 winds boom	1	brass wire		cut	2x51 mm	cut from Pos. Z3
103 winds boom	1	brass wire		cut	2x25 mm	cut from Pos. Z3

P 10 Beschreibung		Stück	Material	Laserplatte	Form	Maße	Bemerkung
104 Winde Lager		1	Messingrohr	Zuschchnitt		4/3x17 mm	
105 Winde Netzführung		2	Messingdraht	Zuschchnitt		1,5x78 mm	zuschneiden aus Pos. Z2
106 Winde Verstärkung		1	Messingrohr	Zuschchnitt		3/2x45 mm	zuschneiden aus Pos. Z6
107 Winde Steckung		1	Messingrohr	Zuschchnitt		3/2x15 mm	zuschneiden aus Pos. Z6
108 Antrieb für Netztrommel		1	Messingrohr	Zuschchnitt		4/3x28 mm	
109 Rad Netztrommel		2	Birken-Sperrholz	9	Laserteil	1,5 mm	
110 Siege Netztrommel		4	Birken-Sperrholz	9	Laserteil	1,5 mm	
111 Rad Netztrommel		2	Birken-Sperrholz	9	Laserteil	1,5 mm	
112 Abstandshalter Netztrommel		2	Birken-Sperrholz	9	Laserteil	1,5 mm	
113 Ahse Winde		1	Messingdraht	Zuschchnitt		3x55 mm	zuschneiden aus Pos. Z4
114 Motor Winde		1	Buchenradstab	Zuschchnitt		10x20 mm	
115 Motor Kühlrippen		1	Neusilber		Aitzteil	0,5 mm	
116 Motorschalter		1	Kunststoffrohr	Zuschchnitt		3/1x12 mm	
117 Motorschalter		1	Kunststoffrohr	Zuschchnitt		5/3x10 mm	
118 Motorschalter		1	Stecknadel		Fertigteil		
119 Sicherungsring Winde		1	Birken-Sperrholz	7	Laserteil	1,5 mm	
120 Boden Kiste		9	Birken-Sperrholz	7+9	Laserteil	1,5 mm	
121 Seite Kiste		18	Birken-Sperrholz	7+9	Laserteil	1,5 mm	
122 Sternseite Kiste		18	Birken-Sperrholz	7+9	Laserteil	1,5 mm	
123 Boden Kiste		1	Birken-Sperrholz	7	Laserteil	1,5 mm	
124 Seiten Kiste		4	Birken-Sperrholz	7	Laserteil	1,5 mm	
125 Verstärkung Kiste		8	Birken-Sperrholz	7	Laserteil	1,5 mm	
126 Anker		2	Birken-Sperrholz	4	Laserteil	0,8mm	
127 Verstärkung Anker		4	Birken-Sperrholz	4	Laserteil	0,8mm	
128 Abdeckung Bug		1	Neusilber		Aitzteil	0,5mm	
129 Rosette Windensteckung		1	Birken-Sperrholz	7	Laserteil	1,5 mm	
130 Poller		1	Kunststoff	Zuschrott		5x40 mm	
131 Poller		1	Kunststoff	Zuschrott		2x20 mm	
132 Rosette Poller		1	Birken-Sperrholz	7	Laserteil	1,5 mm	
133 Fender		4	Styroporkugel		Fertigteil	25 mm	
134 Ringschraube für Fender		4	Metall		Fertigteil		
135 Soll			Textil	Zuschrott		250 mm	
136 Halter für Leider		4	Neusilber		Aitzteil	0,5 mm	
137 Leiter		2	Messingdraht	Zuschrott		2x100 mm	zuschneiden aus Pos. Z3

P I D	Beschreibung	Stück	Material	Laserplatte	Form	Maße
138	Sprossen für Leiter	3	Birken-Sperrholz	7	Laserplatte	1,5 mm
139	Anlenkung Ruder	1	Stahl draht		Fertigteil	1 mm
140	Label weiß	1	Kabel		Zuschneid	50 mm
141	Sandpapier	1			Fertigteil	
Z1	Messingdraht	1	Messingdraht		Zuschneid	2 x 100 mm
Z2	Messingdraht	1	Messingdraht		Zuschneid	1,5 x 100 mm
Z3	Messingdraht	6	Messingdraht		Zuschneid	2 x 500 mm
Z4	Messingdraht	1	Messingdraht		Zuschneid	3 x 100 mm
Z5	Messingrohr	1	Messingrohr		Zuschneid	2/1 x 50 mm
Z6	Messingrohr	1	Messingrohr		Zuschneid	3/2 x 330 mm
Z7	Messingrohr	1	Messingrohr		Zuschneid	4/3 x 100 mm

Instrumente zum Ausschneiden



Weitere tolle Modelle aus unserem Programm



Hafenschlepper JONNY

Lasercut-Bausatz aus Holz und ABS mit großem GfK-Rumpf mit vielen eingearbeiteten Details, umfangreichem Beschlagteilesatz und funktionsfähigen Winden, Löscharmaturen und Lichtfunktionen.

Maßstab	Länge	ca. 1:32 ca. 990
Breite		mm ca. 308
Gesamthöhe		mm ca. 675
Gewicht		mm ca. 14 kg



Lotsenboot PILOT

Lasercut-Bausatz aus ABS mit großem Ätzteilesatz, Beleuchtungsfunktionen, und viele Möglichkeiten für einen weiteren Ausbau.

Maßstab	ca. 1:25 ca. 715
Länge	mm ca. 200
Breite	mm ca. 3 kg
Gewicht	

und viele mehr auf www.aero-naut.de

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Reutlingen

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