

Alexandra



Steam-Launch at the turn of the century

Our Alexandra was launched in 1900 by an English ship-yard. The boat was designed as "family boat" for wealthy people and bounded to navigate the seas and rivers in England.

We have been eager to reconstruct an authentic model. Steam launches used to be built to the individual ideas of the customers. For this reason these steam launches were all different. Here we still find the individuality which we have lost nowadays.

You have acquired a model kit which in its conception is clearly different from others. The wooden parts are all cut in modern laser-technique. The visible parts are all made of African hard wood, what makes this model very attractive.

Assembly instructions:

The construction of the Alexandra is not very difficult. All you need is a bit of constructor skill, combined with accuracy and patience.

Before beginning with the construction, transfer the numbers of all construction parts to the pre-cut parts. Do not yet remove the parts. You will find the corresponding numbers in the reduced figures in this assembly instruction. Please use a lead pencil and mark the numbers only slightly so that you can erase them later. For removing the parts we recommend to use a very thin fretsaw-blade (00).

We urgently ask you to follow our recommendations concerning the glue. Experience has shown that this will lead to no reclamations.

For the construction of the Alexandra we recommend:

Krick extra fest, Catalogue-No. 80480a P.V.A.-glue of good quality. You can use Ponal, Uhu-Coll or something similar instead.

Krick ruck-zuck, Catalogue-No. 80491 the superglue with very high adhesion and extremely short drying time.

Krick ABS-glue, Catalogue-No. 80478 developed especially for the connection of wood and ABS.

Epoxy-Rapid, Catalogue-No. 80476 a 5-minute-epoxy resin of best quality.

Stabilit-Express: a polyester-based epoxy-glue for the ABS-plastics. Superglue is not suitable for ABS. If there is no special glue indicated in the instructions, you have free choice.

Generally, you should polish off carefully all wooden parts after gluing and then varnish them three times with a not too pasty filler. Sand after each coating in order to smooth the prominent wood fibres. The final varnishing with mat or silk-mat lacquer is only applied at the very end, when the model is finished.

For the construction please follow the numbers of the construction plan.

Start with the boat rack (parts 1-4). Glue all parts together, and varnish, as described above.

Cut out the hull (5) with a sharp-edged, pointed knife along the visible line. To do so, carefully scratch five or six times at the marked site without pressing too much, then cut upright at the ends and break off the hull by carefully bending it to and fro.

For sanding, glue a sheet of sand paper (grain-size 100) to a rest piece of plywood (approx. 50 x 300 mm) and sand the edges in longitudinal direction (see Fig. 3).

Mark a line inside the hull; 3mm below the cutting edge (see Fig. 4). This gives the position for the support strips No. 6 and 7.

In order to avoid distortions of the hull; clamp the lateral support strips 6 and the back support strip 7 below the line in the hull (use auxiliary strips 3 x 10 mm) and fill superglue into the gap between strip and hull. Do not glue the auxiliary strips! Figure 4 shows how to apply the superglue. Please use a needle or a thin wire. Many modellers use too much glue which does not dry fast enough and runs down the hull.

Bevel the deck 8 according to the hull walls and fit into the hull. Before fixing, parts 9-16 have to be glued under the deck. Start from the front frame No. 13, fit to the slits in the hull, clamp or pin the curve and glue. Repeat for the back frame No. 14.

Glue stiffening part No. 9 according to plan.

Now glue frame 10 and parts 11 and 12 together (Fig. 5). At this stage you should install the rudder bush for the steering according to plan sheet 1. The lower edge of frame No. 10 has to be bevelled and fit to the hull before fixing.

Glue parts 15 and 16 to deck 8 and frame 10. In order to avoid glue traces on the hard wood, we recommend pre-gluing with superglue and then fixing with P.V.A.-glue on the rear side which is not visible.

Apply a thick film of ABS-glue to the strips 6 and 7 in the hull, press the mounted deck onto the strips and fix according to Fig. 6 with tape.

The parts of the frame scaffold consisting of the longitudinal support No. 17 and frames No. 18-22 are glued together angularly, see Fig. 7. Add the longitudinal supports 23 and 24.

Epoxy resin base plate 25 and the two base plates 26. The holes for the nuts 27 must lay exactly one upon another. When gluing the nuts 27, be careful that no resin attains to the thread.

For the following steps please study carefully Fig. 1 on plan.

Fit the frame scaffold into the hull. Put an angle on the

Longitudinal support 17 and move it to frame 21 by means of a rest piece of plywood. Lay a strip or straight edge on the upright standing angle edge (the angle is positioned in the middle of the hull) cross over the deck. Now move the longitudinal support 17 with the angle, until the strip corresponds exactly to the deck recess. Then fix the support with superglue. Remove angle and rest piece of plywood and glue the scaffold with superglue into the hull. Glue frame number 10 (already fixed to the deck) to the hull.

Fit the engine base plate 28 into the hull, plank with strips 29. Also fit the edges of the planking according to Fig. 9.

Glue the surrounding strips for the cover No. 30 to the rear of the base plate (see sheet No. 1). Drive the nuts 31 into the reinforcements 32, fix with epoxy resin and then glue with the other reinforcements 33 under the plate.

Plank the hatch 34 with strips 35 and fit according to plan. Do not glue!

Work the engine base plate 28 and the hatch 34 with not too pasty filler and sand, as mentioned earlier. Afterwards glue the engine base plate into the hull, using epoxy resin for the frame scaffold and superglue for the hull.

If there are gaps or slits caulk them so that no water can penetrate under the base plate.

Cut the slot for the screw-shaft-pipe 36 according to plan No. 1. Glue together stern keel 37/38 and filling-timbers 39/40, fit to the hull and fix with superglue.

Place the steam engine on the base plate. Fit the blinds 41 to the stern keel. Install the screw-shaft-pipe 36, adjust it accurately in line with the axis of the steam engine and fix it with Stabilit Express on the frames, on the hull and on the parts 37-40. Fill the gaps at the stern keel and filling-timbers and press on the two blinds 41. Use a drop of superglue to prevent them from gliding away. Remove carefully excess glue from the end of the screw-shaft pipe. Finally with Stabilit Express build a little groove between hull, stern keel and filling-timber (Fig. 11).

Fix the brass rudder-heel 42 with the screws 43 on the stern keel 37/38, but do not glue. Mark the hole for the rudder-trunk 44 on the lower part of the hull.

Remove the rudder heel 42 and drill a hole of 5mm for the trunk. Afterwards re-screw the rudder-heel and put the rudder-trunk 44 into the hull. Screw the nut 184 onto the rudder-shaft 45, insert the rudder shaft from the top through the trunk and the rudder-heel and fix the trunk-tube in the hull.

Support the rudder-trunk with the trunk-bearings 46, 47 and 48 by connecting the parts with Stabilit-Express. The tube should be properly glued to the hull floor.

Mount the rudder, consisting of the parts 45 and 49-52 and glue with epoxy resin. Observe that the distance between the upper edge of the back-piece of the rudder and the mounted nut should be 38 to 39 mm. Then sand and paint the back-piece of the rudder.

Make up the cabin floor of the parts 53-57. Proceed as with the engine base plate; glue with epoxy resin and superglue.

Insert the frames 59, 61, 63 and 65 into the cabin walls 58 (back), front (60), door (62) and port and starboard (64) (Fig. 13). Since the window-panes are inserted from outside, the surrounding strips have to be flush with the inner wall of the cabin. When fitting the parts 58 and 60 be careful that the recess for the cable of part 58 and the door recess of part 60 lie on the right side (seen from the stern).

Dry fit the cabin elements in the hull. If satisfied, remove them and coat. When dried and sanded the parts are refitted in the hull. Insert the necessary extension wires for the rudder machine and fix them with tape and clamps. Then glue all parts with superglue.

Glue seat parts 67-70 and support angle 71, polish and paint, let dry and glue in position.

Glue the parts for the servo box 72 and 73 angularly with superglue, sand and varnish. Glue parts 74 and 75 into the servo box. Observe the dimensions of your servos. Now glue the servo box into position according to plan No. 1.

Glue support strips 77 to the front side of the cabin and to the covering 76.

Dress the bearing for the rudder wheel 78; drill a hole of 2 mm diameter, coat, polish and glue into position.

Solder cables of 10 cm with a little banana plug to one side of the antenna wire 79, stick the wire through the hole in the cabin front part, pull it along to the bow and fix it under the deck. When fixing the antenna and the servo-cable, take into consideration that later, when you mount the bow bulkhead, the antenna with the plug and the cables of the servos have to lead into it.

Sand seats 80 and 81, trim with strips 82, polish off and glue into position. Then fit back of seats 83 and 84 and glue into position.

Dress the cushions 85 to 87 according to scheme BIB on plan 1, coat and varnish. Do not glue into position until the final painting of the model. Fit the seat 90, polish off and sand. Construct the cushions 91 and 92 as already described.

These parts are removable; they are not glued to the model.

Fit the bulk bowhead. Do not glue. Glue blind 94 to the rear side.

Lay door 95 into the recess of the bulkhead 93, push it upwards, turn the whole thing upside down and mark the slits of the blind 94 on the door. Dress the bolts 96 and 99 according to plan 1 and Fig. 14.

When all parts are dressed, plank the bowhead and door with the planking 100. Use superglue. Now glue the bulkhead with superglue into the hull. Do not forget the antenna and the servo cable! Glue the stow-chest front 101 to part 102 and fit it to the hull.

Sand and glue the steps 103 as shown on plan 1, coat, sand and glue into the hull. Do not glue the covering 104 until the bulwark 107 is mounted.

Soak the front bulwark over night and fasten it wet with the pattern 106 and an auxiliary strip in the deck recess (Fig. 15) and let dry. Do not use a hair-dryer!

When dry, glue the two parts of the bulwark together and fasten them again until the glue is dry. Do not yet glue it to the deck!

When the glue is dry, cut out the bulwark, polish off, sand and cover with glue.

Glue together the lateral bulwark-strips 107, fit and glue to the deck according to plan 1. Now glue the covering 104 onto it.

Glue steps 108 to base plate 109. Sand, coat and fit.
Glue head ledge 110 and fore and after 111 into position (see plan 1).

Next plank the deck and glue into position the middle strip of the deck planking 112. Complete the planking 113 according to plan 1 and sand the whole deck.

Mount the rubbing strakes 114 - 116 and the covering strip 117 according to plan 1 and schemes A/A and B/B. Then sand and coat. We recommend protecting the hull under the rubbing strakes with a tape strip.

Dress the hatchway surrounding 118/119 according to Fig. 16 and sand. Then glue the hatch into position.

Sand, coat and paint the frame strips 121, because when fixed in the hull, it would be very difficult to paint them properly. Mark the position of the strips in the hull according to plan 1 and glue into position.

Dress the roof frame from the parts 122 to 126 (see Fig. 17). Since the cabin roof is removable you have to leave a little gap between the cabin walls and the roof frame. This can be achieved by fixing two tape strips in the cabin. The tape will also prevent the roof from plastering with the cabin wall.

Roof frames and longitudinal transoms are too large and have to be fit. The frame parts have to be clamped to the edges of the cabin until the glue is dry. If you work accurately, no difficulties should occur.

Now glue the stiffening edges 126 in position. When dry remove the tape and sand, if necessary, the roof in order to match the cabin.

Now carefully fix the roof 127 with one clamp each in the middle of the frame, add more clamps up to the edge so that tension is avoided. Turn the whole roof construction upside down and glue inside with superglue.

Glue the skylight parts 128 angularly to the parts 129, fit to the cabin roof 127 and glue into position. Then fix the roof 130.

Coat and varnish vent hatches 131, but do not glue into position before the model is painted.

Dress bow- and stern-block 132/133, coat and glue into position. The final painting is done by three or four layers of synthetic resin lacquer mat or silk-mat.

The rudder wheel 134 is glued into the rudder-wheel stanchion 78 with the spacers 135 and the screw 136 (Plan 1).

Construct the table from the parts 137 - 140 according to Fig. 17 and paint.

Now please observe our recommendations for the construction of the windows 141 to 145:

Cut out the windows, fit them to the recess, and clean the PVC with an ordinary dish-wash lotion. The PVC tends to charge. This static electricity can cause a spattering of the superglue you need for fixing. In order to avoid this, rinse the windows with clear water and do not rub them dry, but put them on a cloth and let them dry.

Lay the windows into the recesses. Beginning at the top insert the PVC-cable 146 putting only small drops of superglue into the space between wood and frame (see Fig. 19).

For the application of the glue use a needle or something similar.

Glue together curtain stake 147 and blind 148, coat and varnish.

Cut out the curtains from a paper serviette and glue them with superglue to the rear side of the blinds (Fig. 20).

Coat, varnish and glue the blind for the screw-shaft-pipe 149 and the screw-shaft-pipe bearing 150. Mount the shaft from the parts 151 - 156 and install it according to Fig. 21. Glue into position the brass parts: door-handle (157), flagstaff-base 158, hand-rail-base 159, hook-base 160 and lamp mast-base 161 with superglue.

Complete the flag-staff 162 and 163 with the trucks 164 and clamps 165 and varnish them.

Varnish the ensign-halliards and the flag, and then mount parts 166 - 168.

Bend the hand-rail 169, lamp-hook 170 and lamp-mast 171 according to plan 1 and glue them to their respective bases.

Paint the lips 172 and the cross-bit 173 with brass-colour and glue with superglue according to plan 1. Drill holes of 2 mm diameter for the bitts.

Now you have to do some accomplishing works like installation of the sliding picture 174, dressing and gluing of the belaying-rope according to plan 1, gluing of the table-lamp 176, compass 177, suspending of the hand-lamps 178.

Complete the rudder with the parts 179 - 185 according to Fig. 22.

Screw the steam engine to the base plate; connect the reversing valve of the engine by means of the shearing-rod 186 and the fork-head 187 with the servo. The clearance of the weigh-shaft-arm should be 90 degree.

Before filling in the ballast weight please take into consideration that you might add accessories not contained in the kit, which could influence the trim situation of the boat.

If you have made up your decision and installed these supplementary accessories proceed as follows:

1. Fill the gas tank.
2. Fill the steam boiler with water.
3. Install the remote control and the batteries.
4. Bring steam boiler, burner and table into their position but do not fix them before trimming.

Put tape strips around the hatchways. This prevents the floor from getting dirty when filling in the ballast.

Put the model into the bath-tub or a similar water container. Mix the ballast with some slowly drying epoxy glue (UHU Plus Endfest or something similar; it must under all circumstances be slowly drying), and fill in this mixture carefully through the hatchways. Control the position of gas tank, boiler and table in the hull from time to time. If everything is correct and the boat plunges to the

ballast-trim-water-line, leave the boat in the water until the glue is dry so that the position of the ballast cannot change. The next day you may glue the hatches into position.

Mount the coal-bunker from the parts 189 - 192 according to the perspective drawing. Glue some wood remains or stone chips on the top to imitate fire wood or coal.

This tunnel-shaped box is very important for the correct operation of the burner.

The burner heats the gas tank slightly thus preventing the emitting gas from cooling down too much. If the gas tank is too cold the flame gets smaller and smaller. If it is too hot, the flame gets bigger and bigger and risks setting the boat on fire. Indoors and outdoors as well if the sun does not shine, the temperature relations are in a good balance. However, if the sun does shine the gas tank might get too hot so that the flame gets too high, as mentioned above. The tunnel-shaped box protects the gas tank from sun and thus prevents it from getting too hot.

After having lighted the gas flame just put the box over the gas tank.

Caution! The flame must under no circumstance shoot up through the Furnace of the boiler!

Adjust the flame so that it is not too high. Control the heat by holding a paper strip in front of and behind the boiler. If it is set on fire, the flame is too hot!

Necessary accessories:

For the construction of the model you need some supplementary accessories that are not contained in the kit:

- 2 pine-wood strips 3x10x1000 mm
- Silicone lute
- 2 extension wires for the servo
- 1 pair of antenna plugs
- Epoxy glue, slowly drying, only for the ballast
- 3 pairs of lateral fenders, Cat. No. 63102 (1 pair)
- 1 bow fender, Cat. No. 63101
- Pore filler mat or silk-mat varnish

We wish you a lot of fun with your Alexandra. Please observe the instructions for the operation of the steam engine. Our model is not a toy! Young persons less than 16 years old should operate models with steam engines only with adults being present.

Parts List

No.	Description	Quantity	Material	Board No.
1	boats rack front	1	plywood 8 mm	1
2	boats rack rear	1	plywood 8 mm	1
3	junction for racks	1	plywood 8 mm	1
4	stiffener	1	plywood 8 mm	1
5	hull	1	extruded plastic (ABS)	
6	deck support strip	1	ramino 3x9~905m m	
7	deck support strip stern	1	plywood 3 mm	4
8	deck	1	plywood 3 mm	2
9	lamp-mast stiffener	1	plywood 3 mm	2
10	frame for rudder servo	1	plywood 3 mm	8
11	rudder-servo support1	2	plywood 3 mm	4
12	support	2	plywood 3 mm	7
13	deck frame bow	1	plywood 3 mm	4
14	deck frame stern	1	plywood 3 mm	4
15	protecting wall	2	plywood 3 mm	8
16	protecting floor	1	plywood 3 mm	8
17	Longitudinal bearer	1	plywood 3 mm	4
18	frame	1	plywood 3 mm	2
19	frame	1	plywood 3 mm	2
20	frame	1	plywood 3 mm	2
21	frame	1	plywood 3 mm	4
22	frame	1	plywood 3 mm	2
23	longitudinal bearer	2	plywood 3 mm	2
24	longitudinal bearer	2	plywood 3 mm	2
25	base board	1	plywood 3 mm	2
26	fundamental board	2	plywood 3 mm	2
27	nut	2	M3	
28	engine base plate	1	plywood 3 mm	2
29	planking	1	tanganjika 1x10x5200 mm in total	
30	surrounding strip	1	tanganjika 1x10x200 mm in total	
31	nut	2	M3	
32	stiffener	2	plywood 3 mm	4
33	stiffener	4	plywood 3 mm	4
34	hatch	1	plywood 3 mm	3
35	hatch planking	1	tanganjika 1x10x160 mm in total	
36	screw-shaft-pipe	2	plywood 3 mm	4
37	stern keel	2	plywood 3 mm	4
38	stern keel	1	plywood 1,2 mm	6
39	filling-timber	2	plywood 3 mm	2
40	filling-timber	1	plywood 1,2 mm	6
41	blind	2	plywood 1,2 mm	6
42	rudder heel	1	brass 2x7x80 mm	
43	fixing screw	2	tin screw 2,2x9 mm	
44	rudder-trunk	1	brass tube diameter 5x37 mm	
45	rudder-Shaft	1	brass rod diameter 4x124 mm	
46	trunk-bearing	1	plywood 3 mm	2
47	trunk-bearing	1	plywood 3 mm	2
48	trunk-bearing	2	plywood 3 mm	2
49	bearing pin	1	brass wire diameter 1x25 mm	
50	back-piece of rudder	1	plywood 3 mm	3
51	back-piece of rudder	1	plywood 1,2 mm	6
52	back-piece of rudder	2	plywood 1,2 mm	6
53	cabin floor	1	plywood 3 mm	3

Parts List

No.	Description	Quantity	Material	Board No.
54	flor planking	1	tanganjika 1x10x3500 mm in total	
55	surrounding strip	4	tanganjika 1x10x200 mm in total	
56	hatch	2	plywood 3 mm	3
57	hatch planking	1	tanganjika 1x10x250 mm in total	
58	cabin rear wall	1	plywood 3mm	7
59	surrounding strip	8	mahogany 1x1x210 mm in total	
60	cabin front wall	1	plywood 3mm	7
61	surrounding strip	4	mahogany 1x1x190mm in total	
62	cabin door	1	plywood 3mm	7
63	surrounding strip	4	mahogany 1x1x200 mm in total	
64	lateral wall	2	plywood 3mm	7
65	surrounding strip	24	mahogany 1x1x1350mm in total	
66	covering strip	8	Tanganjika 0.5x4x450 mm in total	
67	seat (bottom part)	1	plywood 3mm	7
68	seat (bottom part)	1	plywood 3mm	7
69	seat (bottom part)	1	plywood 3mm	7
70	seat (bottom part)	1	plywood 3mm	7
71	support angle	4	plywood 4mm	2
72	servo box, front	1	plywood 3mm	8
73	servo box, side	1	plywood 3mm	7
74	servo bearing board	2	plywood 3mm	2
75	support	2	plywood 3mm	2
76	servo-box-covering	1	plywood 3mm	7
77	support strip	3	ramino 3x3x200 mm in total	
78	rudder-wheel stanchion	1	mahogany 25x18x15 mm	
79	antenna	1	steel wire diameter 1x500 mm	
80	seat	1	plywood 3mm	8
81	seat	1	plywood 3mm	8
82	support strip	2	ramino 3x3x410 mm in total	
83	back of seat	1	plywood 1.2mm	9
84	back of seat	1	plywood 1.2mm	9
85	seat cushion	2	plywood 3mm	3
86	seat cushion	4	plywood 3mm	3
87	seat cushion	6	plywood 3mm	4
88	lateral bulwark	2	plywood 3mm	8
89	back of seat	1	plywood 3mm	8
90	seat	1	plywood 3mm	8
91	seat cushion	1	plywood 3mm	2
92	seat cushion	2	plywood 3mm	2
93	bow bulkhead	1	plywood 3mm	4
94	blind	1	plywood 1.2mm	9
95	door	1	plywood 3mm	2
96	bolt	1	plywood 1.2mm	5
97	bolt	1	plywood 1.2mm	5
98	bolt	1	plywood 1.2mm	5
99	bolt	1	plywood 1.2mm	5
100	planking	1	mahogany 1x5x2500 mm in total	
101	stow-chest front	1	plywood 3mm	8
102	stow-chest side	1	plywood 3mm	8
103	step	4	plywood 1.2mm	9
104	covering	1	plywood 3mm	7

Parts List

No.	Description	Quantity	Material	Board No.
105	bow bulwark	2	plywood 1.2mm	9
106	pattern	1	plywood 3mm	4
107	bulwark port & starboard	4	plywood 1.2mm	9
108	step	2	plywood 3mm	7
109	base	4	plywood 3mm	7
110	head ledge	1	plywood 3mm	2
111	fore and after	2	plywood 3mm	2
112	deck planking	1	mahogany 1 x5x200 mm in total	
113	deck planking	1	Tanganjica 1 x5x8500 mm in total	
114	rubbing strake	2	mahogany 2x5x930 mm	
115	rubbing strake	1	mahogany 2x5x110 mm	
116	rubbing strake	1	mahogany 2x5x15 mm	
117	covering strip	8	mahogany 1.5x1.5x2000 mm in total	
118	hatchway surrounding	2	mahogany 2x5x110 mm in total	
119	hatchway surrounding	2	mahogany 2x5x85 mm in total	
120	hatch	1	plywood 1.2mm	9
121	frame strip	38	mahogany 1x5x3200 mm in total	
122	roof frame	1	plywood 3mm	4
123	roof frame	1	plywood 3mm	4
124	roof frame	1	plywood 3mm	4
125	longitudinal transom	2	ramino 5x5x250 mm	
126	stiffening edge	8	plywood 3mm	2
127	cabin roof	1	plywood 1.2mm	5
128	skylight side	2	plywood 3mm	8
129	skylight front	2	plywood 3mm	7
130	roof	1	plywood 1.2mm	5
131	vent hatch	8	plywood 1.2mm	5
132	bow-block	1	mahogany 30x12x6mm	
133	stern-block	1	plywood 3mm	7
134	rudder-wheel	1	pre-fabricated wooden part	
135	spacing sleeve	1	pin diameter 3x0.25x3 mm	
136	cylinder screw	1	brass M 2x15mm	
137	table leg		plywood 3mm	7
138	transom	1	plywood 3mm	8
139	table-top	1	plywood 3mm	8
140	surrounding strip	4	mahoganies 2x5x320 in total	
141	window-pane	2	PVC	10
142	window-pane	2	PVC	10
143	window-pane	2	PVC	10
144	window-pane	2	PVC	10
145	window-pane	2	PVC	10
146	window-frame	1	PVC-cable 2800 mm in total	
147	curtain stake	8	Tanganjica 1.5x1.5x600 mm in total	
148	blind	8	Tanganjica 1 x4x600mm in total	
149	screw-shaft-pipe blind	1	plywood 3mm	8
150	screw-shaft-pipe bearing	1	plywood 3mm	8
151	shaft	1	prefabricated	
152	shaft-nut	1	brass M 4	
153	propeller	1	prefabricated	
154	setting-ring	1	prefabricated for 4 mm diameter	

Parts List

No.	Description	Quantity	Material	Board No.
155	hose	1	silicone hose diameter 5x10mm	
156	cylinder screw	1	M3x15 mm	
157	door-handle	2	prefabricated	
158	flag-staff base	2	prefabricated	
159	hand-rail stanchion	2	prefabricated	
160	hook-base	1	prefabricated	
161	lamp-mast base	1	prefabricated	
162	flag-staff	1	ramino diameter 2x200 mm	
163	flag-staff	1	ramino diameter 2x100 mm	
164	truck	2	wooden parts, prefabricated	
165	clamp	2	prefabricated	
166	ensign-halliards	2	rigging yarn diameter 0.25x400 mm	
167	flag	1	prefabricated	
168	flag	1	prefabricated	
169	hand-rail	1	brass wire diameter 2x210 mm	
170	lamp-hook	1	brass wire diameter 2x30 mm	
171	lamp-mast	1	brass wire diameter 2x120 mm	
172	lip	2	prefabricated	
173	cross-bit	7	prefabricated	
174	signature	2	sliding picture	
175	belaying-rope	1	rigging yarn diameter 1.25x500 mm	
176	table-lamp	1	prefabricated	
177	compass	1	prefabricated	
178	hand-lamp	2	prefabricated	
179	steering-crank	1	prefabricated	
180	shearing rod	1	steel wire	
181	setting-ring	2	prefabricated for 4mm diameter	
182	screwing-splint	1	inward-wrench M3x4mm	
183	hexagonal inward-wrench	1	prefabricated	
184	nut	2	brass M4	
185	cog-wheel	1	steel M4	
186	shearing rod	1	screwing-rod M2	
187	fork-head	1	prefabricated	
188	ballast	1	approx. 1.2 kg	
189	awning (side)	2	plywood 2mm	5
190	support strip	2	ramino 3x3x135 mm in total	
191	awning top	1	plywood 1.2mm	5
192	blind	2	plywood 1.2mm	5

Dear steamer-fan,

You have acquired a model Kit which in conception and quality surely is unique. Congratulations!
Please replace the following positions in the parts list:

No. 180 shearing-rod 1 off. Screwing-rod M 2
No. 181 setting-ring, 1 off. Prefabricated for 2mm diameter
No. 193 evaporating screw with nut

Table-lamp 176, compass 177 and hand-lamps 178 are not contained in the kit. You can order these parts separately. However we recommend the accessory-set No. 20283 which contains all necessary parts.

Catalogue-Nr. 20283: Accessory-set Alexandra

Consisting of:

1 table lamp, No. 60110

1 compass No. 60111

2 hand-lamps No. 60112 (2 pieces each) 1 coxswain No. 64615

3 pairs of lateral fenders No. 63102 (1 pair each) 1 bow fender No. 63101.

Evaporating screw with nut: The evaporating screw evaporates the exhaust-steam. Drill a hole near the evaporating condenser above the waterline into the hull and fix the screw with the nut. The exhaust-steam is transported from the condenser or directly from the steam engine to the evaporating screw by means of a hose.

Caution! Our new gas boiler has a considerably reinforced power! Do not open it too wide. The flame must under no circumstances shoot up through the furnace of the boiler! Control the heat by holding a paper strip in front of and behind the boiler. If it is set a fire, the flame is too high!

We wish you a lot of fun and "happy sailing" with your Alexandra!

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