Assembling instruction
for
1/40 Steam Yacht

KAMOME

SAITO SEISAKUSHO CO., LTD.
22-7 Tokagi 3-Chome, Ichikawa-Shi,
Chiba-ken 272-0024, Japan
TEL: 047-378-4156 FAX: 047-378-4155
http://www.saito-mfg.com

SAITO®
MADE IN JAPAN

Assembly Instructions for " KAMOME ", Steam Yacht

Let us express our sincere thanks for your favoring Saito Seisakusho, Ltd., particularly for your purchase of the "KAMOME", Steam Yacht.

For your convenience, please prepare the following tools and adhesives before assembly.

Scroll Saw, Small Plane (Balsa Plane,etc.), Cutting Pliers, Nipper, Hair Dryer, Soldering Iron, Pincette, Small Electric Drill, Files (Flat type 10 m/m approx., Round type 3 m/m and 8 m/m approx.), Sandpapers (#240 and 80), Compass, Metal Rod for Fittings (6 m/m x 200 m/m, with 5 m/m depth of the top cut by metal saw).

Adhesives

[1] Cyano-instant adhesive (about 20 grams)

2 types are available such as thickening and thin type. But, please use thin type only. The delicate point is a small quantity and flat a contact surface as much as possible. If you apply a large quantity, wipe it with cloth. At this time, an instant cementation is available, if you use an accelerant. This is good for temporary houses and veneer sections so that assembly time is largely saved.

[2] Epoxy adhesive (5 minutes type) (about 80 grams)

Use a hair dryer and induce with wire, etc., for beautiful glueing with a small quantity. Glueing time is faster. Please do not use a hair dryer for pile arrangement.

[3] Epoxy adhesive (30 minutes type) (about 35 grams)

Use glueing with Hull and Decks. Please do not use a hair dryer. Surrounding temperature (20 C over) is preferable in winter.

Coating

Spraying --- Lacquers : White... 1/5 litre, Green... 1/5 litre,
Yellow.. Small quantity,
Black .. " "

Brushing --- Plastic Colours : Green, Mahogany, Gray & Black Iron.

Enamel --- White and Black colours.

Lacquer Surfacer -- 500 grams. Putty -- Small Quantity.
Thinner -- 2 litre. Sandpapers.
Waterproof Abrasive Papers -- #400, 3 sheets and #800, 1 sheet
Cashew Paints --- Inside Coating, Deck Plank, Door and Mast, etc.

3T Linden veneers and die parts are concerned, do not use the back sides, which are clearly numbered, as the surfaces. 2 keels are not used.

Hull

Modify the hull in accordance with the drawing, specially broadside line, by files, which are packed in the kit. File the hull insides (Mainly glue points) with sandpapers.

Glassfiber should be stripped 1 sheet by sandpaper before glueing. Just same as soldering and one day is available. Also, modify the thickness of the hull inside sections, which are above the decks, with files. Use compass and make 23 m/m line bilaterally in the hull inside from the broadside top. Next, put together the top of Hinoki (wood material 4 m/m) to the line and fasten it with clips. Make sure right and left, sizes, etc., before glueing. Use [1] for temporary glueing and lay the hull so as to glue with [2] from the back side of Hinoki (wood material 4 m/m) by hair dryer. Make various holes such as stern tube, rudder, etc., in accordance with the drawing. Engine should be fixed on engine bed (59) (See drawing) and fit on the ship bottom. Then, attach universal joint and (131) (134) shoud be fixed to stern tube for easy revolution. And only (131) should be glued to the stern tube with [1]. Take off (134) and insert (52) while (134) is attached. And a point, where allows easy revolution, should be glued to the hull with [1]. Attach propeller joint to propeller shaft and the joint is allowed to move about 1 m/m by adjusting the engine bed. (60) (61) (62) are temporarily fastened by [1]. At this time, do not glue (59). Glue with [2] without any crevices in the surroundings. Attach engine and boiler burner to the engine bed (See drawing). Coat cashew paint on the bed. Make holes, which are fitted to Servo motor on its fitting board (53), and also drill for engine throttle lever (boiler and regulator) and engine reverse lever rod.

Deck

First, (5) are fixed to the back of deck (3) by clamps and glue with [2] after glueing [1]. Use [3] in case of glueing to the hull. Fix with gum tape, etc., attaching supporters to the decks because they are warped. (68) is glued to bulwark section on the decks. Coat (B) (Caution: Inflammable and volatile liquid), which is packed in the kit, to (68) ABS side and glue with [3] within 20 minutes. Glueing of decorative deck planks starts from the surroundings and glue the center. From the center, glue with [1] toward right and left sides. Round off the corners by sandpapers (See drawing). (71) should be painted by white enamel after hull paint and is glued. (55) is a plug-in type against (79). After completion of the upper section of the hull, make holes for gunwale round windows (109). Assembly of the upper deck and houses (Forward & Backward) is glued with [1] at the designated positions after placing the upper deck (24). (The backward section is a plug-in type). Ventilator, funnel and other small parts are glued with [1] after coating. After glueing of [1] for ventilator and funnel, glue them again from the back with [2]. After coating of the upper deck house, glue decorative decks on the upper decks.

Coating

The hull should be filed with waterproof abrasive paper #400 so as to clean the outside damages. The decks are covered with paper tape, etc., for masking. Coat surfacer to whole outside with 3 times. After dry well in each time, file with waterproof abrasive paper and fill up dents by putty. See drawing and attach paper tape to the waterline and cover the bottom with newspapers in order to coat white lacquer in 3 - 4 times. On the other hand, cover the upper part and coat the bottom of waterline with light-green. After dry well, small parts are glued with [1], however, pay your attention that the paint will melt by extra adhesive. Insides of gunwale small windows are painted by light blue, without out any hole, after glueing. White enamel is used for handrails and tension wire. Coat cashew #53 for decorated deck, door and Mast. Coat your favourite colour of cashew paint to the hull inside because it is not damaged by alcohol. Funnel is concerned, refer outer case and coat with white lacquer to the upper deck house. The bottom is biscuit colour (White with a small quantity of yellow) Medium - red and Top is black colour.

Outfit

After screw of tension wire fitting (75), wire should be passed through spring and coil the copper wire (163) in 4 times for glueing with [1]. Attach spring to the fitting and also hook on the opposite side. Then, hook spring wire and pull it about 3 m/m for coiling with the copper wire which is fixed by [1]. Make 2 m/m hole at broadside with drill for the back sunshade support, which requires 3 m/m extra length from the size requested, and make gauge with a board, cutting by plyers, and glue with [1] after modification of the bend. The surroundings are previously bent so as to solder from the stern center to right and left. Make 1.1 m/m handrail fitting holes with drill and pass wire vertically for fixing with [1]. Also, glue with [1] for the ball of wire and support. Antenna receiver and wire are soldered to (161). From the back of the upper deck, (163) copper wire is soldered to (162) and stretch it from the back mast to the front mast.

Ballast

In operating condition (Water and alcohol are filled), set the ship's water line placing a lead, etc., in the ship.

Navigation

Lubricate every part of the engine and pour regular water and alcohol into the boiler and the burner. The ship should be in a horizontal position. After ignition of the burner, adjust the needle valve by outdoor temperature. First, check the sailing conditions within 10 - 20 meters and do not sail for a long distance. Burner sound is a key point and return the ship at once if the sound is stopped. In summer, the burner tank is overheated because of high temperature so that, in this case, close the needle valve accordingly. On the other hand, open it widely during low temperature. Again, burner handling is the most important factor. Bon Voyage !

Steam Yacht " KANOME "

Specification:

Reduced Scale	:	1/40
Length Overall	:	1,350 m/m
Breadth Extreme	:	220 m/m
Height	:	430 m/m
Steam Engine	:	T2DR or T3DR
Boiler	:	B2F or B3
Radio Control	:	2 - 3 Channels

Part List

Part No.	Description	Quantity	Remarks
1	Hull	1	FRP
2	Rudder Bracket	1	"
3	Deck	1	3 m/m Linden Veneer
4	Mast Reinforcement	1	Veneer 8 x 25 x 25
5	Deck Beam	2	3 m/m Linden Veneer
6	Bowsprit Bracket	1	"
7	" End	1	From #56
8	Chain Entrance	2	" #57
9	Capstan Base	1	3 m/m Linden Veneer
10	Fore Upper Skylight	1	"
11	" Middle "	1	"
12	" Lower "	1	"
13	" Side "	1	"
14	" " "	1	"
15	Cabin (Front)	1	2 m/m Linden Veneer
16	" (Side)	1	3 m/m " "
17	" (Side)	1	"
18	" (Rear)	1	"
19	" Reinforcement	1	"
20	Fore Upper Deck	1	"
21	Hatch Rest	1	"
22	Upper Deck (Side)	1	"
23	" " "	1	"
24	" " (Middle)	1	"
25	Steering House (Front)	1	"
26	" " (Oblique Front)	1	"
27	" " "	1	"
28	" " (Side)	1	"
29	" " (")	1	"
30	" " (Rear)	1	"
31	" " (Roof)	1	"
32	Engine Room Roof	1	"
33	Skylight (Front)	1	"
34	" (Rear)	1	"
35	" (Upper)	1	"
36	" (Oblique upper)	1	"
37	" " "	1	"

38	Cabin (Side)	1	3 m/m Linden Veneer
39	" "	1	"
40	" (Front)	1	"
41	" (Rear)	1	"
42	" (Roof)	1	"
43	Boat Chock	1	"
44	" "	1	"
45	" "	1	"
46	" "	1	"
47	" "	1	"
48	" "	1	"
49	Back Capstan Base	1	"
50	Veranda	1	"
51	Bulkhead	1	"
52	Shaft Bracket	1	"
53	Servo Fitting Board	1	"
54	Rudder	1	"
55	Bowsprit	1	Hinoki Round Pole
56	Front Mast	1	"
57	Back Mast	1	"
58	" " Arm	1	"
59	Engine Bed	1	Wood
60	Engine Bed Fitting Board	1	"
61	" " " "	1	"
62	" " " "	1	"
63	Wood Screw 3 x 10	6	
64	Hinoki Pole 4 x 4	4	Cutting required
65	" " 3 x 3	6	" "
66	Deck Plank 1.5t x 6	65	" "
67	Balsa Board 1.5t	1	From 1.5t x 80 x 50
68	ABS 3 x 3	3.5 m	Cutting required
69	" 1t x 25	2 m	" "
70	" 1t x 10	150 m/m	" "
71	" 1t x 6	250 "	" "
72	Brass Wire 2 m/m	2 m	" "
73	" " 1 "	7 m	" "
74	Bowsprit Ring	1	Brass
75	Fittings	50	
76	Spring	18	
77	Chain	500 m/m	
78	Wire	3.3 m	
79	Bowsprit Socket	1	Brass
80	Setting Pin	18	
81	Bracket	2	Brass
82	Anchor	2	Antimony Coating
83	Grommet	6	Brass
84	Capstan	3	Aluminum
85	Round Window (Small)	56	Brass
86	Bollard	8	Aluminum
87	Mast Flange	2	Brass
88	Mooring Pipe	6	"
89	Lamp	2	"
90	Mast Ring	1	"
91	Mast Cross Beam	2	Assembled
92	////////////////////////////////	////	Missing No.
93	////////////////////////////////	////	" "
94	Pulley	11	Plastic (Paint white for Antenna Pulley)

95	Mast Top	2	Aluminum
96	Door Hinge	16	Brass
97	Square Window	27	"
98	Side Light (Green)	1	"
99	" " (Red)	1	"
100	Hand Rail Support	32	Brass
101	" " "	54	"
102	Compass	1	Aluminum
103	" Stand	1	"
104	Soft Iron Ball	2	"
105	Compass Stand Base	1	"
106	Loop Antenna	2	Brass
107	" " Support	1	"
108	Stairway	4	Wood
109	Round Window (Large)	10	Brass
110	Ventilator A	2	Antimony Casting
111	" B	2	Aluminum
112	" Base	2	"
113	Life Buoy	3	Plastic
114	Ice Cover	6	Aluminum
115	Whistle	1	Brass
116	Funnel Ring	3	"
117	Funnel	1	Aluminum
118	Funnel Flange	1	"
119	Oil Pipe	1	"
120	Boat Davit	6	Aluminum
121	" Flange	6	"
122	" Block	6	"
123	" Bollard	6	"
124	Boat	2	Plastic
125	Motor Boat	1	"
126	Round Window (Medium)	10	Brass
127	After-Mast Arm Bracket	1	"
128	" " " Ring	1	"
129	Propeller	1	Brass,w/M4 screw set
130	Washer	1	Teflon
131	Shaft Holder A	1	Brass
132	Stern Tube	1	"
133	Propeller Shaft	1	Stainless Steel
134	Shaft Holder B	1	Brass
135	Joint A	2	Free-Cutting Steel, w/M4 screw set
136	Joint B	1	- " -
137	Exhaust Pipe	2	Brass
138	Rubber Tube	400 m/m	3.4 (Inside dia.)
139	" "	850 m/m	2.3 (")
140	Rudder Reinforcement	2	Brass
141	" Shaft	1	"
142	" " Holder	1	"
143	" " Arm	1	"
144	Ball Joint	4	
145	Adjuster	2	
146	Screw M2 x 10	4	
147	Nut M2	4	
148	Connecting Pipe	1	4 x 250
149	" "	1	3 x 140
150	" "	1	3 x 25

151	//////////////		
152	Control Rod		Missing No.
153	" "	2	Single Screw, 2 x 30
154	" "	2	" " , 2 x 80
155	//////////////	2	" " , 2 x 125
156	//////////////		Missing No.
157	//////////////		" "
158	//////////////		" "
159	//////////////		" "
160	//////////////		" "
161	Connector	1	Phosphor Bronze
162	"	1	" "
163	Antenna Wire	1 m	Copper Wire, 0.3
164	" U " Nail	3	Brass
165	//////////////		Missing No.
166	Stairway Footboard	4	Deck Plank, 1.5t x 5 W.
49A	Back Capstan Base	1	3 m/m Linden Veneer
B	" " "	1	"
C	" " "	1	"
D	" " "	1	"
98A	Side Light Box	1	Brass
99 B	" " "	1	"

Front View C	:	From Stern to House.
Side View D' - D	:	Show without Starboard Handrails.
Front View A	:	Bridge.
Sectional Drawing B - B'	:	Cutting Plan of Flywheel.

(A) Tie once.

(B) Wire top is coiled with copper wire (Antenna wire) and fix it by an instant adhesive.

(C) Use brass wire (1 m/m) to complete the hook of wire top.

(D) Standard pipe arrangement and Servo motor attachment plan.

(E) Exhaust pipe (From Safety Valve)

(F) Whistle (From Regulator)

(G) Drain Tank (Optional Part) : Separate oil during exhaust and prevent oil flow to outside of the ship.

(H) From Safety Valve.

(I) Boiler is showed after 90 degree turn.

(J) Attachment of Optional Parts : Pipe arrangement after setting of smoke device and drain tank.

(K) In case of setting an optional drain tank, do not use exhaust pipe (137). If you attach a smoke device only, reduce outside exhaust pipe (137) from cylinder quantity.

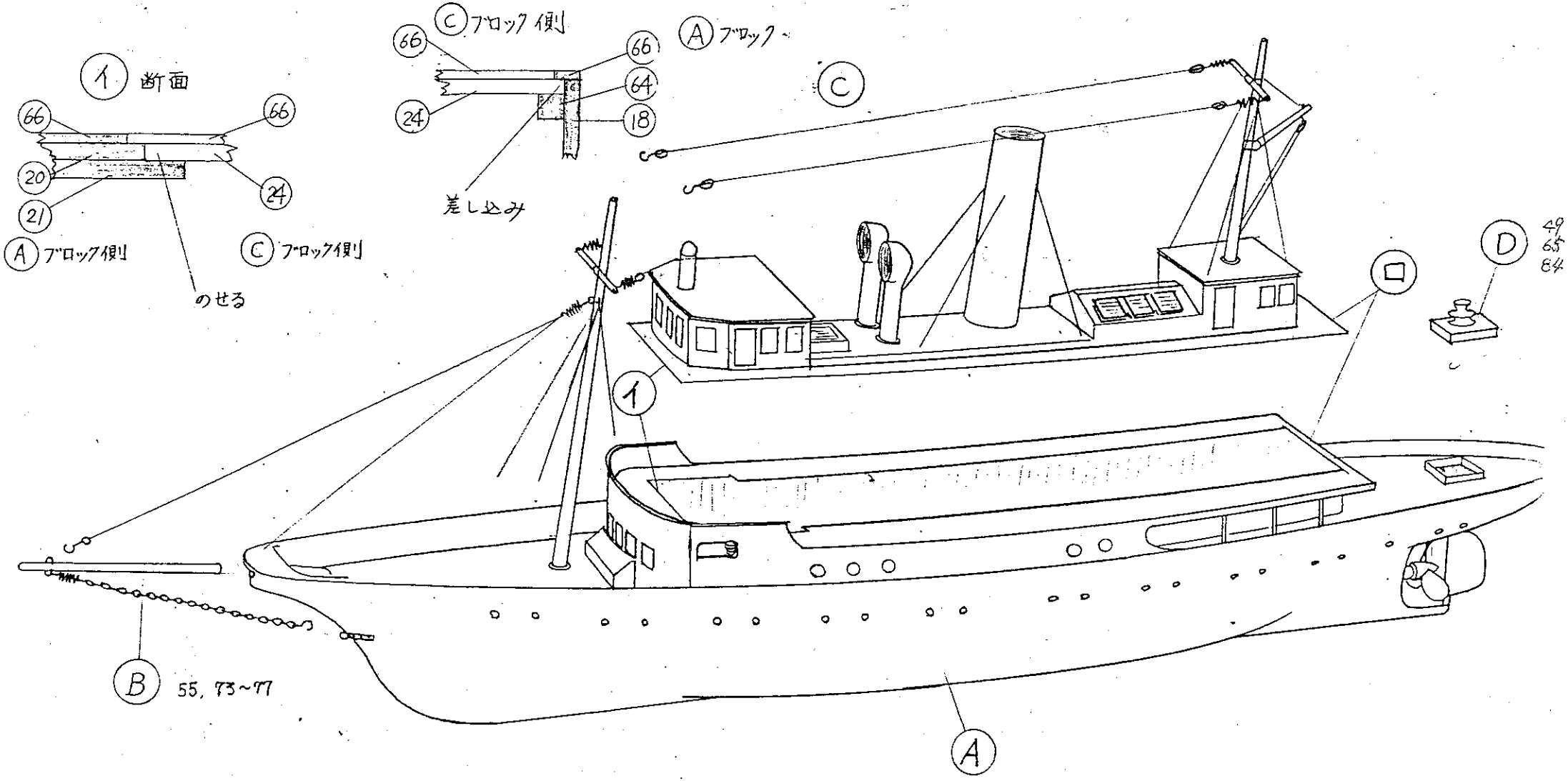
(L) Smoke device (Optional part) : Smoke comes from burning of oil in exhaust.

(M) Deck Plank :
1. Glue margin planks.
2. Glue in parallel with centerline at the center.
3. Glue to outside from the center.

(N) Set a position and make an under hole (2.5 m/m dia.). Once, use a wood screw and pull it out for a screw thread to which an instant adhesive is poured so as to reinforce the screw thread without looseness.

カモメ分解図

24～42, 57, 65～67, 70, 72, 73, 75, 80.
85, 87, 89, 91, 96, 97, 100～108.
110～112, 114～119, 127, 128
162～164, 165



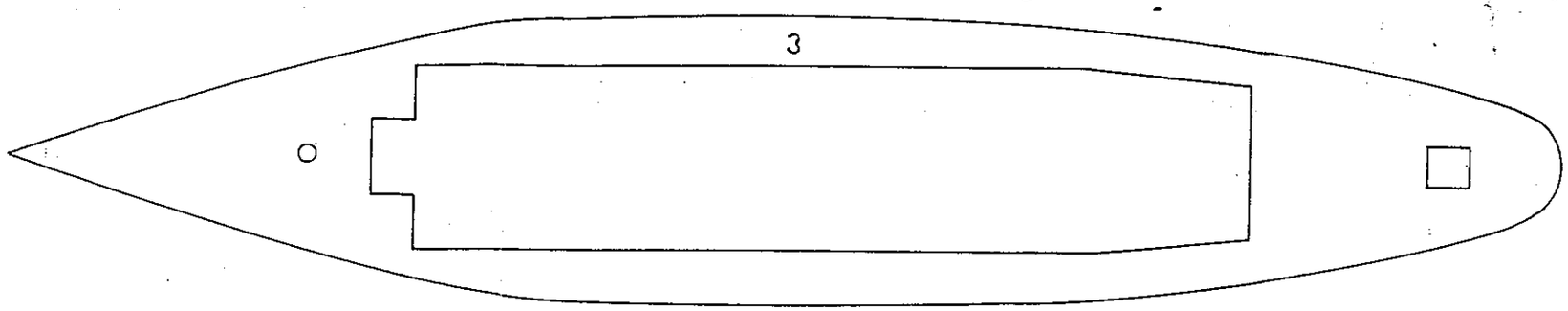
カモメ 木製部品番号表

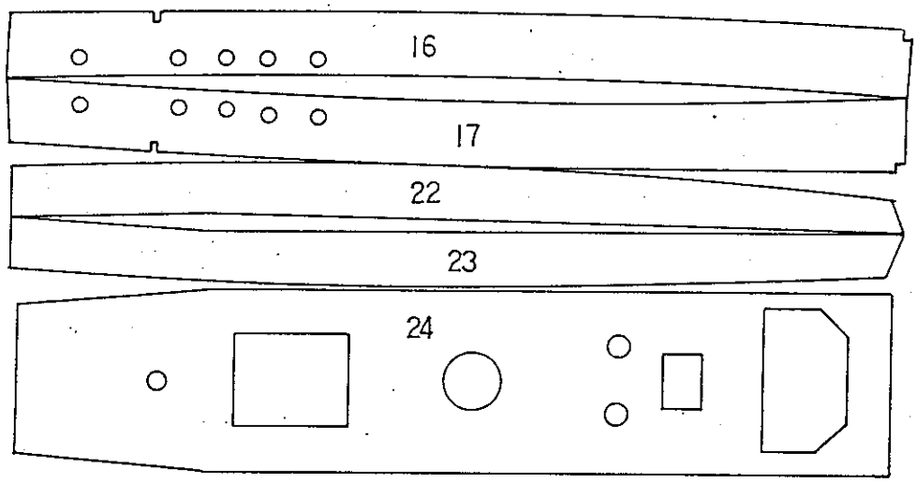
KAMOME

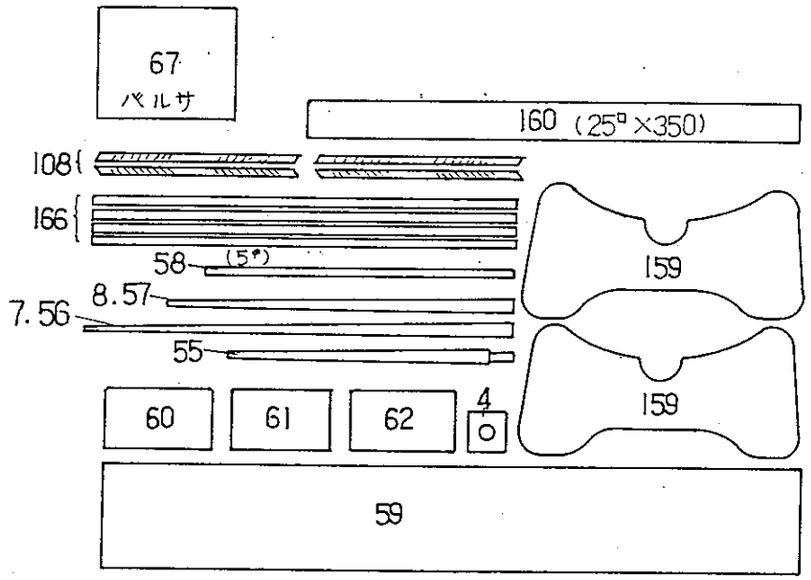
お客様にお願い

部品を打ち抜く前に、この部品番号表により、各部品に番号を記入して下さい。組立の時は、部品番号を記入した面をうら側にして下さい。

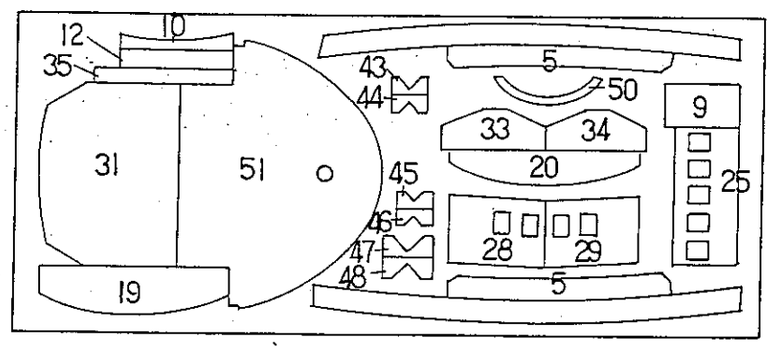
Die-cut plywood parts number listr Wishing : Please number each part by this list prior to detaching it from the plywood. When assembling, use the back where it is unnumbered.



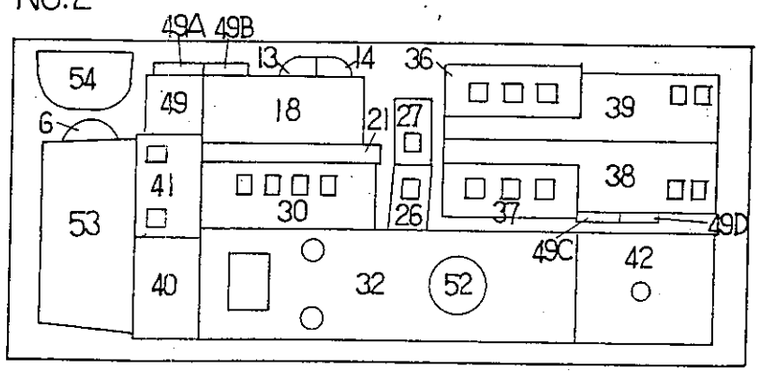


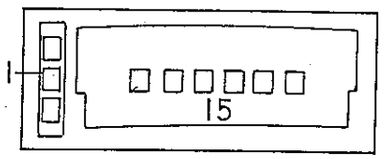


NO.1

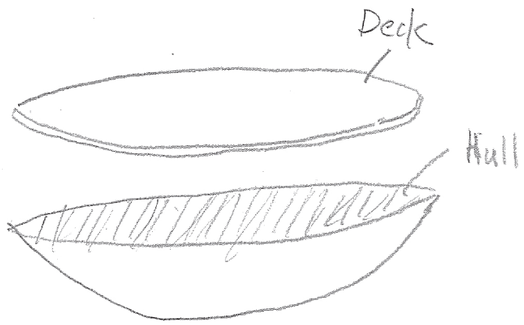


NO.2

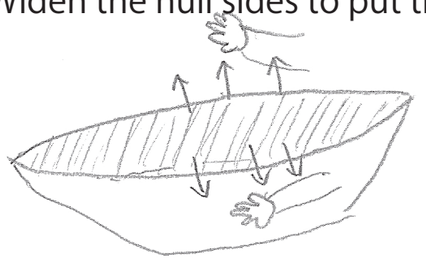




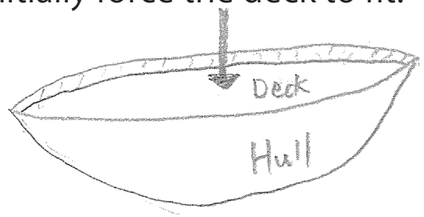
SAITO



1. Widen the hull sides to put the deck in.

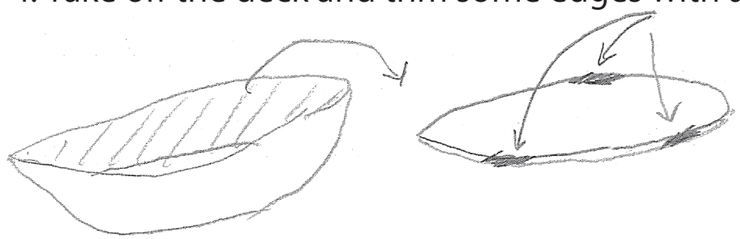


2. Initially force the deck to fit.



3. Check proportion and if there's distortion.

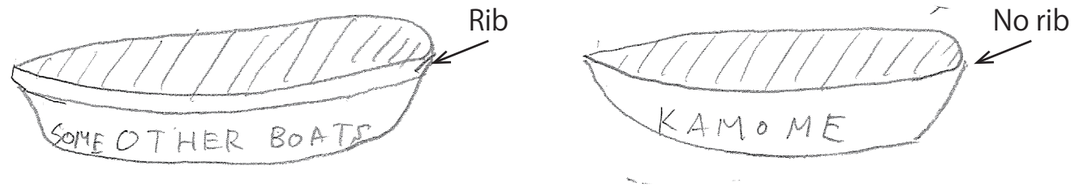
4. Take off the deck and trim some edges with a file to minimize distortion.



5. Repeat 2.~4. until the hull gets good proportion when the deck put in.

Note:
A hull shrinks due to condition of molding ABS and its shape. So it has to be adapted by prying open and put the deck in.

Some hulls of the other boat kits which have rib on the edge shrink very small, but Kamome's hull with no rib shrinks more.



- By above reason, though the hull need to be opened widely, it won't break as long as you apply force gradually.

- Inside of the hull is bumpy so contact surface with the deck is uneven and this causes distortion when the deck is forced to put in. To eliminate distortion, file some edges of the deck.

- Since the 1:1 scale drawing comes with the kit shows the size of a completed boat, the raw hull is smaller than the drawing.