



INSTRUCTION

for assembly of the kit Cannon Jolle 1801 year, art.
MK0202, scale 1:72

Instruction for assemble of the model Cannon Jolle 1801 year

art. MK0202, scale 1:72 [version of the instruction from 11.12.2014]

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1. Historical note

Homeland of the cannon jolle is considered to be Sweden.

Examining nearly a century of confrontation between major countries that determine the balance of power in the Baltic, Russia and Sweden, Vice-Admiral A. Ehrensvar came to the conclusion, that conquer of domination on the Baltic sea will not depend on activity of the linear fleets, but from the control for skerry fairways. To ensure superiority over potential adversaries Ehrensvar offered to equip the Swedish Army's fleet of more modern ships instead the Mediterranean galleys - clunky, ineffective and required of large crews.

The basic designs of new ships were designed by famous Swedish shipbuilder of English origin by Frederic Chapman, and with 70 years of the XVIII century their construction began.

Despite introduction of many changes, to address the shortcomings skerry's frigates fully failed. Therefore, the commander of the Swedish Army fleet Colonel G. Trolle put before F. Chapman new task – to design for the Baltic skerries more maneuverable and light vessels. The solution of the problem met in the construction of the special rowing armed ships for protection of the sailing fleet. After a series of sea trials and having studied the experience of previous wars in the area of the Finnish skerries, the famous shipbuilder solved the problem, having offered to build small, light, armed with a small number of large-caliber gun of the gunboats.

20 January 1776 F. Chapman signed drawings for the first 12 gunboats.

While continuing to actively participate in the creation of the fleet of the new sample, F. Chapman created another new type of combat rowing boat – cannon jolle. Unlike the gunboat, jolles were cheaper and required less time to build than gunboats.

Heavy artillery weapons and good maneuverability with a small crew, small displacement and insignificant draught allowed to conduct operations in the most remote areas, to gain crews of people who do not have a good Maritime training. So, in the first Rochensalm battle, the fleet of Sweden has lost more than 40% of large sailing ships and only 5% gunboats and jolles.

The main disadvantage of small rowing sailing vessels was the lack of premises; the result is that people constantly were on the upper deck, not having shelter at night and in bad weather.

During the Swedish war 1788-1790 years, Russia, which had captured the enemy's gunboats and jolles, quickly appreciated the advantages of the new type vessels and started to build them in the next year. By the beginning of the summer of 1789 the Baltic fleet managed to put 63 gunboats built in Russia, descended from slipways Volhov, Galley, Revel, Vilmanstrand and Fridrichsgam shipyards. Production of jolles at Russian shipyards began later, after the analysis of the Vyborg and Rochensalm battles.

In Russia jolles built on the model of the Swedish, taken as trophies in various battles. The first 20 jolles was built at the Riga shipyard by S. Durakin in 1791. By the beginning of the another war with Sweden 1808-1809, Russia against Swedish fleet in the Baltic sea have managed to put your own skerry fleet: 233 gunboats (25 of them were captured by the Swedish) and 114 cannon jolles, which, along with the larger vessels, played a decisive role in naval battles. Sweden collected and used in sea battles on the Baltic only 89 gunboats and 73 jolles.

16 Aug 1808 rowing fleet captain 1 rank Selivanov, consisting of 24 gunboats and jolles, took the fight to three times superior forces of the Swedish fleet near the island Vartsalana and defeated taken by surprise by the enemy. Another victory of Russian sailing and rowing fleets were won at the island Sudsalo 5 Sep 1808.

In general, the appearance of Russian gunboats and jolles in the Baltic, to the much upset of the Swedes, who invented them, had a decisive preponderance in benefit of Russia, which affected the results of the Swedish war of 1808-1809. Small vessels are fully bound in the maneuver of the joint Anglo-Swedish fleet in the Finnish skerries, which allowed the Russian land-based armies to freely advance along the coast.

On the Black sea jolles appeared only at the beginning of the XIX century and did not take an active part in naval battles, since by the time near the southern borders of Russia completely took over the initiative the Russian black sea sailing fleet.

2. **General recommendations for Assembly of the model**

Before starting assembly carefully read the instruction and check presence of the all details according to specification. **Attention!** Before extracting the details from the plates, be sure to number them with a pencil on the front side according to numeration in the scheme of the location of the details on the plates. Don't throw away **PLATE REMAINS** before finishing the assembly, as they may need you.

Most of details in the set are cut out using laser cutting technology. The side of detail, on which got the laser beam at the time of cutting, will be named **the cut side**. When cutting the details, engraving is applied only from the cut side. This term will occasionally be used on. Accordingly, to recognize the cut side can be it engraving. Also, in the schemes of the location of the details on the plates (attached separately) each plate depicts a cut side up. Front side of many details is the opposite side of the cut side. Accordingly, to number this details should from the opposite side of the cut side. For example: finishing planking.

We do not recommend removing all details from the plates immediately. Read the instruction carefully, set scope of work and remove only the necessary parts. On the plates of thickness more than 1.5 mm the bridges should be trimmed on both sides in order not to damage the part. After removing the details carefully sand the places their mounting (bridges) in plates.

Carefully remove bevels on engraved on the details of the contour; this defines a farther the precise setting of the prepared strips of finishing planking on the frame of the model's hull (the example of the removal of the **bevel** - fig. 1 of the photo instruction).

Further in the text all reference to drawings relate to drawings of photo instruction, unless otherwise specified. Method of cutting of details with a laser technology has two features: the formation of dark soot on cutting details and the small taper (not vertical) of the cutting. Both these features are used in the construction of the model. For example, when cutting deck boards or planking only soot allows you to better highlight the seams, and when setting of the planking the conical shape of the cut allows a better fit of the strips of the planking to each other **without** removing of the bevels.

When assembling the frame of the hull, soot specifically to clean off is **not necessary**, because everything will be closed finishing planking and deck. In the places of fitting of the line of cut to flat surfaces the cutting line can be a little to process sandpaper for closer fit to the surface.

Attention! In the text of the instruction in many positions the need removing of bevel explicitly specified will not be. Meanwhile on the details bevel is engraved.

Attention! Before gluing any details necessary to verify accuracy and ease their installation in the slot without glue. If necessary, process the sandpaper the plane of the detail.

For working we recommend you to use following **INSTRUMENTS**:

- modeling knife with the changeable blades;
- three types of the sandpaper (medium-grained №200-240, small-grained №400-600, very small-grained № 1000-1200). It is recommended to buy or make wooden sandpaper holder yourself in the form of blocks different shape, in which support the sandpaper;
- the set of the tread files: flat, round and square;
- the drill mini and the drills of the diameters 0.5-1.0 mm;
- slate-pencil;
- white carpenter glue (PVA adhesive) for gluing the wooden details, cianoacrylate glue (butvarphenolic adhesive) – for gluing the metal details;
- the transparent semi-gloss varnish and a black ink (or a black paint).

Attention! If You have any requests and remarks for this kit, please contact us by e-mail RC@MASTER-KORABEL.RU

3. **Assembly of the frame of the hull**

Attention! On the details of frame in many positions were engraved the contours of the bevels. The details, on which you need to remove a lot of material, we recommend to remove bevel before installation their on the hull. Details from which it is necessary to remove a little material (less then 1 mm), we recommend processing after their installation on the hull at the stage of the general processing of the hull before gluing of the planks. Also, if you are dread that the processed detail may break in your hands make sense to handle it after installation on the rough frame of the hull.

We highly recommend you to process separate details of the hull a little not until the end, leaving the final processing on the stage of the general processing of the hull before gluing the finish planking.

In Fig. 1 of the photo instruction on the example of detail A27 showed, how to remove the bevel from details.

3.1. Extract from the plates: frames A17 - A22, details of the transom strengthening A35 (R\L), main plate Z2, keel frames A23 (R\L), stringers C10 and rough transom A36.

Glue frames A17 - A22 into the main plate Z2 from the side of the cut (see Fig. 2). All these frames are installed with bevel (the cut side) to the stern (to the details of the transom strengthening A35 on Fig. 2). Align frames A17 - A22 until the glue dries, inserting rough transom A36, keel frames A23 and stringers C10 **without glue** (see Fig. 3). When the glue dries, remove rough transom, keel frames and stringers. Glue the details of transom strengthening A35 (Fig. 2).

Attention! In Fig. 3 and Fig. 4 red marked details, which at this stage do not need to glue. Attention! Hereinafter the details, on which is necessary to remove the bevel, explicitly mark will not be, except unobvious places.

Attention! The letters R and L at the end of the detail number indicate right and left detail accordingly. Sometimes in the text the detail number will be indicating without these letters – this means that the operation should be done for both details.

3.2. Glue the finishing lower deck D1 on the main plate Z2 according to Fig. 4. Note the insertion in Fig. 4. It shows the relative position of the plate Z1 and deck D1. Again at this stage the plate Z1 and keel frames A23 set without glue.

3.3. Remove the necessary bevels and assemble the bow unit in the plate Z1 (on the reverse side of the cut) from details A25, A26, A27, A28, C9 according to Fig. 5 and Fig. 6. Also glue additional frames A37 (see Fig. 6).

Attention! The next phase requires of the adhesives of a sufficiently large number of details together until the glue drying, as the details in assembled is aligned position to each other. So before gluing, make sure that all the details are well sit on their seats.

3.4. In assembled unit of the frames and main plate Z2 glue the keel frames A23 according to Fig. 3-7. In the main plate Z1 glue the frames A3-A16 (see Fig. 7) and, without waiting for the glue dries, set the plate on the keel frames A23. To align the frames, temporary very carefully without glue set longitudinal framework benches D10 according to Fig. 7. All frames A3-16 are mounted on the plate Z1 with its cut side and are its cut sides (bevels) in the direction of the bow. **Don't forget to set the frame A3!**

3.5. Glue additional frames A24 in the center of the hull and frames of float A30-A33 with strengthening A34 in the stern (Fig. 7).

3.6. Assemble the gun carriage according to Fig. 8 and glue it to rough transom A36 according to Fig. 9. Please note that the transom is tilted slightly towards the stern (see, for example, Fig. 11).

3.7. Grind protruding part of the bottom of the gun carriage B5 flush with the plate of the rough transom (in Fig. 10 highlighted in red). Install the float frame A29. This frame, unlike the rough transom, vertically. Try to position it as symmetrically with respect to both sides. For alignment you can use a finishing transom B8 (see Fig. 12).

3.8. Install beams B7, A38, A15B, A13B, A11B, A9B, A7B, A5L, A5R (see Fig. 10-11). **We insistently recommend that before gluing of beams to test how well longitudinal frameworks of benches D10 are (see, for example, Fig. 7). If necessary, file out the ends of beams.**

3.9. Glue the stringers C10 as shown in Fig. 10-12 and finishing transom B8 (see Fig. 12). Please note that the stringers bend a little, following the grooves on the frames. Stand the stringers should be as vertically: on their upper end later will be glued to the railing (see, for example, Fig. 28). When gluing the stringers conveniently to use household hair dryer - first, heat the PVA dries faster, and secondly, after heating the PVA becomes for a short time plastic and после нагрева ПВА становится на короткое время пластичным and details can slightly move/rotate in the right direction.

This hull is ready to be processed.

4. Handling of the hull and finishing planking

For sandpaper, we insistently recommend you to use sandpaper holders (either in the stick with glued on it a sandpaper, or in the form of any device with the ability to change a sandpaper). Remove the sandpaper no more than 0.2 mm thick in a single pass. Especial attention should be devote to the smooth of the hull lines that they were without depressions.

4.1. When processing pay special attention to the bow part below the main plate, but also of part of the hull in the area of transition stringers C10 on the finishing transom B8. The stringers are processed to match the frames (see Fig. 12).

4.2. After processing the hull glue the longitudinal frameworks of benches D10 (see Fig. 13). **These details are easy to break so be careful!** Glue the fastener masts A39, aligning it with a round work piece Z3. The work piece must be vertically. After the glue fix the detail install the deck D2 without glue and again check using the Z3 proper positioning of the fastener masts.

4.3. Glue the aft deck D5, onto it overlapped the main deck D2. Glue the bow deck D3 and install on it the hatch C6.

4.5. Remove from the plate the sternpost B1, **not separating** from it the conductor B1-1. A drop of glue pastes the guides B1-2 according to Fig. 15. Drill bit to drill a 0.6 mm diameter hole to half depth from one side and then the other. In the end, the holes should unite and отверстия должны соединиться и you should have end-to-end vertical (after installing the sternpost to the hull) hole through the sternpost. Separate the conductors B1-1 and B1-2 from sternpost.

4.6. Install the cross bases of the benches D11 (see Fig. 17).

4.7. Try the sternpost B1, keel B2 and the stem B3 according to Fig. 19. If necessary, adjust them or clean their seats from the glue.

4.8. Spend final processing of the fine sandpaper the frame of the hull prior to installing the finishing planking. Don't forget to also process the edges of the decks according to the lines of frames.

The hull ready to install finishing planking.

All planks of finishing planking (E2-E9), except for the upper (E1R, E1L) installed on the hull the cut side inside. That is, the front side of planks is the side, reverse cut side. This is done in order to use the of cut line for a better adjunction of the planks to each other. The upper planks of the planking (E1R, E1L) are installed the cut side out, because they are engraved.

Before removing the planks of the finishing planking from plate we recommend on the their front side draw two parallel vertical lines according to the marks, cut on the plate (see Fig. 16). These lines on installing on the hull planks of the planking correspond with the position of the frame A15 and serve for easy orientation of the planks (see Fig. 18).

Gluing of the planks of planking should be realizing top-down symmetrically: first, the plank on one side, then the same plank of the other side. All planks we recommend to glue from the bow to the aft. The upper plank lies at a level with the upper surface of the deck and stringer C10 at the stern; you can leave (that is, put the plank a little higher) slightly (say, 0.1 mm) for processing.

Pay attention at the planking of the junction bow deck to the main deck. Border of junction should be moved back a little, because then, when processing the end of the bow deck, the planking will have to whittle away at an angle to the plank of planking.

4.9. Glue the finishing planking of the hull E1-E9 in accordance with the recommendations given earlier (Fig. 18). Plank E9 is compensation and was given somewhat more widely – after the glue has dried it is trimmed along the slot for the keel/posts. The ends of the planking of the bow we also recommend to glue with little (0.1 - 0.2 mm) overlap on the boundary of the groove for the stem.

5. Finishing and ship's fittings

5.1. After drying of planking will clean and adjust the grooves for the sternpost B1, the keel B2 and stem B3 according to Fig. 19. For processing the edges of the groove conveniently to use a flat thin stick (say, from the remainder of the plate is 1.5 mm) pasted on it with fine sandpaper.

Handle the planking in one level with the final transom; get the border of the deck. Handle the end of the bow deck together with the planking. To do this, again it is convenient to use the stick with glued on one of its planes fine sandpaper. Make a smooth junction from the main deck to the stringer C10 and from the stringer to the final transom. In the later on this place lies the rail cup C1 (see, for example, Fig. 28).

5.2. Glue sternpost B1, keel B2 and stem B3.

5.3. Handle the seat for the deck of the float E11R, E11L, E12 (see Fig. 19-20). The deck is glued overlap on the end of the planking and trims in around the perimeter. Stick out for the border of the planking it should not.

5.4. Continue the hole in the sternpost through the deck of the float. Bend and install the sternpost binding 19 according to Fig. 20. The hole in the binding must match the hole in the sternpost (black vertical line in Fig. 20). To control use the rudder axis 11.

Nails for the binding are manufactured in the following way: take the piece of wire and on a flat surface rolled under the blade of the knife forward and backward. As a result, the area of the cut of wire with knife it turns out not even cut, but "head" – just what we need in our scale. This technique is used wherever it is necessary to make the nail from a wire.

5.5. Bend rudder hinges 8, 9 and pad 10 as shown in Fig. 21. Sharpen two eyebolts 2 as shown in the same figure.

5.6. Assemble the rudder from the details C3, C4. Install the hinges and pad of the rudder according to Fig. 22. For convenience of positioning of the hinges of rudder on rudder is engraved. Please note that the nail (engraved imitation) of the pad 10 in the area of the junction of the two parts of the rudder does not fall on the junction but is located below the junction of.

5.7. Install liners 23 on the rudder and through them sharpen previously eyebolts 2 (see Fig. 22). Eyebolts were sharpened so they better stay in the holes.

5.8. Bend as necessary the hinges of the rudder and adjust the rudder axis 11 (see Fig.23). If desired, it can be slightly rounded with fine sandpaper. The rudder should be left removable, as in the next stages of work it is easy to damage.

5.9. Install binding stem 20 according to Fig. 28-29. Install onto it eyebolts 2 (the top and front to install fore rudder mount 12). Adjust, but do not glue fore rudder mount 12.

Attention! Allocation scheme of the eyebolts, cleats, galleys and stanchions is more detail given in the supplied drawing.

Attention! All strongly protruding elements (the rudder mounts, galleys, etc.) we recommend only to adjust, but don't glue, as they will be interfere with the installation of other elements of the ship.

5.10. Assemble movable gun carriage according to Fig. 26.

5.11. Process and install the float knees B16. Please note that knees are set at an angle (see Fig. 24-25).

5.12. Install walls D6, D7, D8 (Fig. 24, 27) and the step from the base A40 and the top E15. The engraved arrow on the base A40 indicates the top (base puts an arrow inside).

5.13. If necessary, adjust the seat and install the main railway C1 (see Fig. 28). The inner border of railway passes through the corresponding engraving on the main deck and through the inner border of protruding stringer C10.

5.14. Process the anchor bits B15 according to Fig. 28, glue them to the seat grooves in the bow railway C2 and install the bow railway. It is installed the same way as the main – through engraved on the deck.

5.15. Process and install the knees under the railway B21, B22, B23 (see Fig. 28). The locations of the knees engraved on the planking board.

5.16. Install parts of the rubbing piece E17-1 - E17-7 (see Fig. 28). They are installed so that their lower edge coincident with the lower edge of the upper planking board.

5.17. Handle and install knees of the poop deck C5 with pre-mounted on it cleats 1.

5.18. Install eyebolts 2 on the inside of the transom.

Attention! The ends of the eyebolts, cleats, galleys and stanchions that go out through railway or transom don't trim, but stick out.

5.19. Install the gun with a movable carriage and the top parts of the bases B13 with bolts of the pads 23 and wire Z4 (see Fig. 28). If desired, the top parts of the bases are not glued, but only to process and adjust. To put them already with the direct strapping of the gun carriage (see drawings).

5.20. Make both anchors. For these details 6 and 7 are glued together according to Fig. 29, then glued upon them the anchor legs 24. After drying the glue, the anchor legs to handle.

5.21. Fabricate the covers of the benches of the details D4 and E10. The covers of the benches are slightly curved, so they are after fabricate you need to wet and to curve slightly your fingers. After drying, they will keep the form.

5.22. Install all eyebolts and cleats on the deck, transom and railway according to Fig. 28-29 and drawing. Please note that on the outside of the transom put only eyebolts for binding of the side steering oars 13. Two eyebolts from the outside of the transom, referring to the binding of the rubber, is convenient to put directly during binding of the rubber with already inserted rope.

5.23. Give a round shape of the poop boomkins B20 and install them on the bitt B14, attaching the beams 21 and 22 according to Fig. 29 and drawing A.3.

5.24. Fabricate the thimbles 17 for rigging. On Fig. 29 (see insert below center) shows how to fabricate a thimble: on the round slat Z3 work piece of the thimble 17 is bended and glued.

5.25. Fabricate and install the ladders from details E13, E14, E16 (see Fig. 28).

5.26. Adjust and try the galleys (15) and stanchions (27 and 14). Please note that stanchions in the aft and in the bow are different due to the different height of the shipboard and, consequently, the level of the railway. Stanchions and its binding make since to defer at the time, when spars and rigging will be installed.

5.27. The anchor is bonded with a rope Z11 and fastened according to Fig. 29 (shows only one anchor). The rope twists in the coil and is located on the deck.

5.28. The oars are fabricate from the work piece B17 and are located on the galleys (see Fig. on the front page of the photo instruction).

In this hull ready for installation of the spar, rigging and strapping of the rubber and gun.

6. Mastng and rigging.

When you pass rigging, use information from the table "Distribution of the elements of the rigging onto the tackle of the model" (table 1).

- 6.1. Install metal straps with hook 25, 26 on the blocks Z10, Z9 correspondingly, as shown in the drawing B.3.
- 6.2. Fabricate the spar according to drawing A.4:
 - The main mast R3 from the work piece B18, the fore mast R1 from the work piece B19, the cross tree of the main mast R4 from work piece C7, the cross tree of the fore mast R2 from the work piece C8.
 - Drill the holes for the halyards T5, T6 with a diameter of 0.5 mm in the tops of the masts according to drawing. Install on the masts the cleats 5 of the fastening of the tackle ends of the halyard T.5, T.6.
- 6.3. Install the gun rigging Z5, as in the drawing B.2.
- 6.4. Sew the sails S1, S2 of cloth Z15 using the drawings and patterns of the sails on C.1.
- 6.5. Place the sails S1, S2 on the cross trees R2, R4 correspondingly, as shown in the drawing A.1, B.1.
- 6.6. Install the tackle T14 and the preventer T15 of the rudder, as shown in the drawings A.1, A.2 and B.1.
- 6.7. By means of the pliers on the mast ring 16 turn the hook on 90 degrees relative to the ring, order became, as in the drawing A.6. and mount from below the ring of the mast ring on the masts R1, R3. Install the masts on the model.
- 6.8. Fabricate the eye splices of the mast shrouds and the mast backstays and install them on the masts according to the drawings A.1, A.2, A.5, A.6.
- 6.9. Spend the halyards T5, T6 as in the drawing A.1, A.2, A.6, B.1, missing their through the holes on the mast tops. Pre-fix the running end of the halyard tackles T.5, T.6 on the cleat 5 of the corresponding mast.
- 6.10. Hang the cross tree with a sail on the hook of the mast ring 16 of the corresponding mast, pull the cross tree with a sail by means tackle to the needed height and finally fasten the running end of the tackle on the cleat 5 of mast. Fasten the tacks of the sails T9, T10 for the proper eyebolts 2, as shown in the drawings A.1, A.2 and B.1.
- 6.11. Fabricate the eye splices of the braces T11, T12, mount their on the below end of the proper cross tree and pre-fix on the cleats 1 of the railway, as in the drawing A.1, A.2 and B.1.
- 6.12. Spend the fore sheets T7 and the main sheets T8, (see drawings A.1, A.2 and B.1 and the picture on the front page of the photo instruction).
- 6.13. Finally fasten the braces T11, T12 and sheets T7, T8 so that the sails were location in the proper position.
- 6.14. Install gallows (15) and stanchions (27 and 14), spend the lifelines thread Z12 through the holes in the lifelines and gallows, fastened their ends in the eyebolts on the railway, as shown in Fig. 29.
- 6.15. Lay on the gallows tied bunches of oars (see the picture on the front page of the photo instruction).

The building model is finished.

A color version of the latest version of the photo instruction in e-book format PDF can be free download on the website of the company "Master-Shipbuilder" (<http://www.master-korabel.ru>).

We believe that by carefully following our instruction, You surely assemble the proposed model and enjoy the build process and final result. Happy sailing and fair seas!

Attention! The manufacturer reserved the right to introduce without notice changes in the design of the kit, components and instruction.

Specification
of kit Cannon Jolle 1801, art. MK0202, scale 1:72

№ det.	Name	Number	Size, mm	Material	Place of location
Details on the plate					
0A30					
A3	The lower part of the bow frame	1	3	plywood	MK0202-0A30
A4-A16	Frames of the central part of the ship	1	3	plywood	MK0202-0A30
A17-A22	Poop frames	1	3	plywood	MK0202-0A30
A23 (R\L)	Keel frame (right\left board)	1	3	plywood	MK0202-0A30
A24R, A24L	Central lower additional frames	1	3	plywood	MK0202-0A30
A25-A26 (R\L)	Bow ribs (right\left board)	1	3	plywood	MK0202-0A30
A27, A28	Upper parts of the bow frames	1	3	plywood	MK0202-0A30
A29-A33	Float frames	1	3	plywood	MK0202-0A30
A34 (R\L)	Additional reinforcement of the peak of the float (right\left board)	1	3	plywood	MK0202-0A30
A35 (R\L)	Reinforcement of the transom (right\left board)	1	3	plywood	MK0202-0A30
A36	Rough transom	1	3	plywood	MK0202-0A30
A37 (R\L)	Additional bow frames (right\left board)	1	3	plywood	MK0202-0A30
A38	Beam parts in the area of the main mast	2	3	plywood	MK0202-0A30
A39	Fastener of the masts	2	3	plywood	MK0202-0A30
A40	The lower part of the step near the transom	2	3	plywood	MK0202-0A30
A5R, A5L	Beam parts in the area of the fore mast	1	3	plywood	MK0202-0A30
A7B, A9B, A11B, A13B, A15B	Beams	1	3	plywood	MK0202-0A30
0B20					
B1+B1-1	The sternpost with the conductor	1	2	wood	MK0202-0B20
B1-2	Slideways of the sternpost conductor	2	2	wood	MK0202-0B20
B2	Keel	1	2	wood	MK0202-0B20
B3	Stem	1	2	wood	MK0202-0B20
B4 (R\L)	Base frames of the gun carriage (right\left)	1	2	wood	MK0202-0B20
B5	Lower part of the gun carriage	1	2	wood	MK0202-0B20
B6 (R\L)	Knees of the gun carriage (right\left)	1	2	wood	MK0202-0B20
B7	Beam	1	2	wood	MK0202-0B20
B8	Finishing transom	1	2	wood	MK0202-0B20
B9-B11, B12 (2 st.)	Details of the movable gun carriage	1	2	wood	MK0202-0B20
B13 (R\L)	Upper parts of the base frames of the gun carriage (right\left)	1	2	wood	MK0202-0B20
B14 (R\L)	Bits of the aft boomkins (right\left board)	1	2	wood	MK0202-0B20
B15	Bow bits for anchor fasten	2	2	wood	MK0202-0B20
B16 (R\L)	Knees of the float deck (right\left board)	1	2	wood	MK0202-0B20
B17	Work pieces for oars	16	2	wood	MK0202-0B20
B18	Work piece for main mast	1	2	wood	MK0202-0B20
B19	Work piece for fore mast	1	2	wood	MK0202-0B20
B20	Work piece for an aft boomkin	2	2	wood	MK0202-0B20
B21R, B21L, B23R, B23L	Knees under railway (right\left board)	1	2	wood	MK0202-0B20
B22	Knees under railway	8	2	wood	MK0202-0B20
0C15					
C1R, C1L	Main railway of the right and left boards	1	1.5	wood	MK0202-0C15
C2R, C2L	Bow railway of the right and left boards	1	1.5	wood	MK0202-0C15
C3, C4	Details of the rudder	1	1.5	wood	MK0202-0C15
C5	Knee on the poop deck		1.5	wood	MK0202-0C15
C6	Bow hatch	1	1.5	wood	MK0202-0C15
C7	Work piece for cross tree of the main mast	1	1.5	wood	MK0202-0C15
C8	Work piece for cross tree of the fore mast	1	1.5	wood	MK0202-0C15
C9	Bow frame	1	1.5	wood	MK0202-0C15
C10	Stringers		1.5	wood	MK0202-0C15
C11-C14	Details of the pedestal	1	1.5	wood	MK0202-0C15
C15	Tiller	1	1.5	wood	MK0202-0C15
0D12					
D1	Finishing lower poop deck	1	1.2	anegri	MK0202-0D12
D2	Finishing main deck	1	1.2	anegri	MK0202-0D12
D3	Finishing bow deck	1	1.2	anegri	MK0202-0D12
D4	The lower parts of the bench covers	1	1.2	anegri	MK0202-0D12
D5 (R\L)	Finishing upper poop deck (right\left board)	1	1.2	anegri	MK0202-0D12
D6-D7 (R\L)	Walls (right\left board)	1	1.2	anegri	MK0202-0D12

D8	Wall	1	1.2	anegri	MK0202-0D12
D9	Detail of the movable gun carriage	2	1.2	anegri	MK0202-0D12
D10	Longitudinal basis of the benches	2	1.2	anegri	MK0202-0D12
D11	Transverse basis of the benches	14	1.2	anegri	MK0202-0D12
OE06					
E1-E8 (R\L)	Planks of the finishing planking (right\left board)	1	0,6	anegri	MK0202-OE06
E9R, E9L	Compensative plank of the finishing planking (right\left board)	1	0,6	anegri	MK0202-OE06
E10	Upper part of the bench covers	7	0,6	anegri	MK0202-OE06
E11	Central part of the float deck	1	0,6	anegri	MK0202-OE06
E12R, E12L	Side parts of the float deck (right\left board)	1	0,6	anegri	MK0202-OE06
E13	The outside wall of the ladder	4	0,6	anegri	MK0202-OE06
E14	The inside wall of the ladder	4	0,6	anegri	MK0202-OE06
E15	The top of the step near the transom	2	0,6	anegri	MK0202-OE06
E16	Steps of the ladder	4	0,6	anegri	MK0202-OE06
E17-1 - E17-7 (R\L)	Parts of the rubbing piece (right\left board)	1	0,6	anegri	MK0202-OE06
E18	Plank for oarlocks on railway	2	0,6	anegri	MK0202-OE06
Details made by chemical milling					
Thickness 0.5 mm					
1	Large cleat	18	0.5	brass	MK0202-0105
2	Small eyebolt	16	0.5	brass	MK0202-0105
3	Hook	5	0.5	brass	MK0202-0105
4	Large eyebolt	8	0.5	brass	MK0202-0105
5	Small cleat	3	0.5	brass	MK0202-0105
6, 7	Details of the anchor	2	0.5	brass	MK0202-0105
8	The lower rudder hinge	1	0.5	brass	MK0202-0105
9	The upper rudder hinge	1	0.5	brass	MK0202-0105
10	A vertical wrought-iron of rudder with tiller fastener	1	0.5	brass	MK0202-0105
11	Axis for hanging of rudder with tiller fastener	1	0.5	brass	MK0202-0105
12	Bow fastener of the steering oar	1	0.5	brass	MK0202-0105
13	Fastener of the side steering oars	4	0.5	brass	MK0202-0105
14	Bow stanchion	2	0.5	brass	MK0202-0105
15	Gallows for oars	4	0.5	brass	MK0202-0105
16	Mast ring with hook	2	0.5	brass	MK0202-0105
17	The two halves of the thimble with a jumper	16	0.5	brass	MK0202-0105
18	Oarlock	16	0.5	brass	MK0202-0105
27	Aft stanchion	2	0.5	brass	MK0202-0105
Thickness 0.3 mm					
19	Wrought-iron of the sternpost	1	0.3	brass	MK0202-0303
20	Wrought-iron of the stem	1	0.3	brass	MK0202-0303
21	The clamp on the aft boomkin (on bitts)	2	0.3	brass	MK0202-0303
22	The clamp on the aft boomkin (on transom)	2	0.3	brass	MK0202-0303
23	Liner	30	0.3	brass	MK0202-0303
24	Leg of anchor якоря	8	0.3	brass	MK0202-0303
25	The strop with hook of the 2 sheaves block 3.5 mm	8	0.3	brass	MK0202-0303
26	The strop with hook of the 1 sheave block 3.5 mm	11	0.3	brass	MK0202-0303

Attention: some details given with reserve

Individual details (Z)					
No det .	Name	Number	Size, mm	Material	Place of location
Z1, Z2	Main plates	1	thickness 3	HB	separately
Z3	Round plank with tapered ends for adhesion the thimbles	2	02x65	birch	separately
Z4	Wire	1	00,6x500	brass	container
Z5	Gun barrel	1	07x45	brass	separately
Z6	A plate with the name of the ship (article MK0202-0205)	1	0.5	brass	separately
Z7	Oars (to make from B17)	16	by drawings	wood	to make
Z8	Tiller (to make from C15)	1	by drawings	wood	to make
Z9	1 sheave block 3.5 mm	16	3.5	pear	container
Z10	2 sheave block 3.5 mm	12	3.5	pear	container
Z11	Thread rigging light	5m	0 0,4	polyester	container
Z12	Thread rigging light	5m	0 0,3	polyester	container
Z13	Thread rigging light	5m	0 0,15-0,2	polyester	container
Z14	Stop-plank (to make from the surplus of the plate MK0202-OE06)	8	0,6	anegri	-
Z15	Cotton fabric for the sails	1	100x200	percale	box
Z17	Robands for mounting the square sails	drawing	00.2	thread Z13	to make
Z18	Boltrope	drawing	00.4	thread Z11	to make
Z19	Lifeline	drawing	00.3	thread Z12	to make

Spar(R)

Nº det.	Name	Number	Size, mm	Material	Place of location
R1	Fore mast (to make from B19)	1	by drawings	wood	to make
R2	Cross tree of fore mast (to make from C8)	1	by drawings	wood	to make
R3	Main mast (to make from B18)	1	by drawings	wood	to make
R4	Cross tree of main mast (to make from C7)	1	by drawings	wood	to make
R5	Aft boomkin (to make from B20)	1	by drawings	wood	to make

Sails (S)

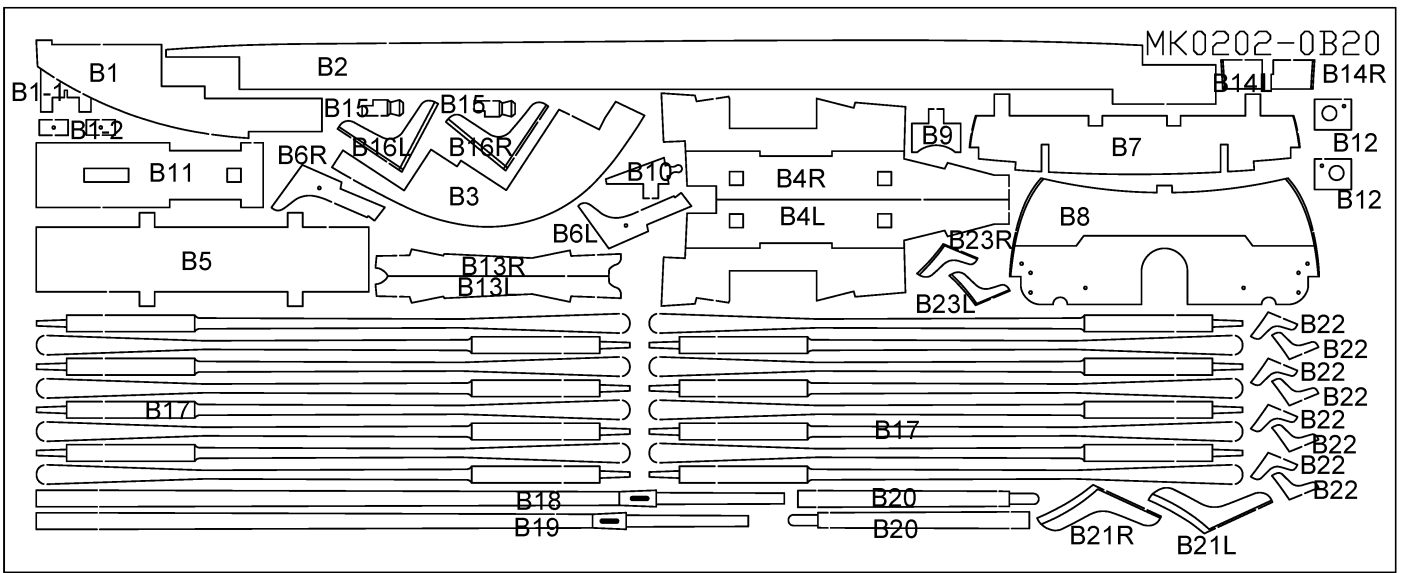
Nº det .	Name	Number	Size, mm	Material	Place of location
S1	Foresail	1	by drawings	cotton fabric	to make
S2	Mainsail	1	by drawings	cotton fabric	to make

For sewing of sails used thread rigging light Z13, boltrope Z11.

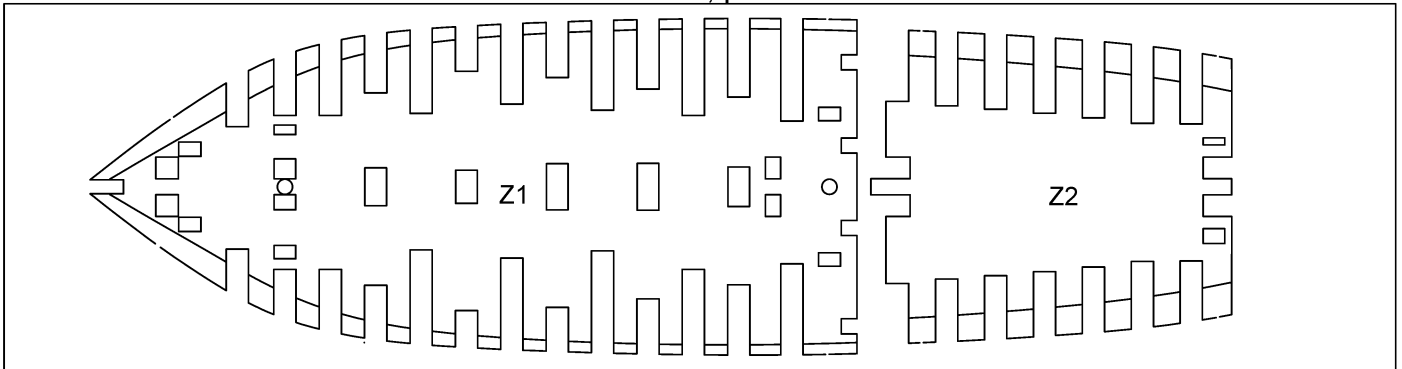
The distribution of the elements of the rigging on model gear of kit Cannon Jolle art. MK0202

Table 1

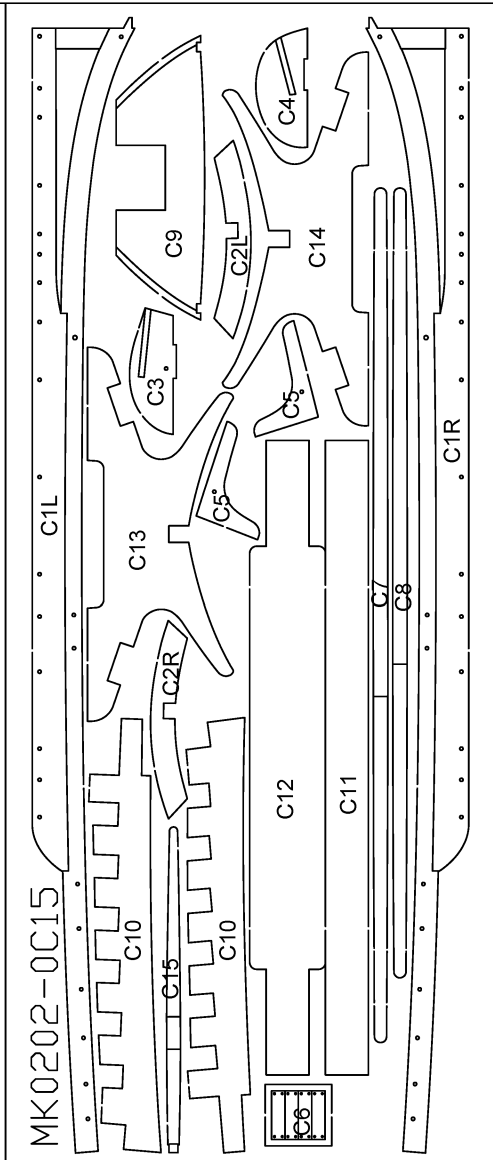
The name of the gear	Nº of the gear	1 sheave block 3.5 mm (Z9)	1 sheave block 3.5 mm (Z9) + strop with hook (26)	2 sheave block 3.5 mm (Z10)	2 sheave block 3.5 mm (Z10) + strop with hook (25)	thimble (17)	mast ring with hook (16)	hook (3)	small eyebolt (2)	large eyebolt (4)	large cleat (1)	small cleat (5)
Shrouds fore mast	T1					4				4		
Shrouds main mast	T2					4				4		
Fore backstays	T3		2		2	2			2		2	
Main backstays	T4		2		2	2			2		2	
Fore halyard	T5			1	1	1	1		1			1
Main halyard	T6			1	1	1	1		1			1
Fore sheet	T7		4								2	
Main sheet	T8	2	2								2	
Foresail tack	T9							1	1			
Mainsail tack	T10							1	1			
Fore brace	T11	2							2		2	
Main brace	T12	2							2		2	
Gun tackle	T13			2	2			2	4		2	
Rudder tackle	T14								2		2	
Rudder preventer	T15								2		2	



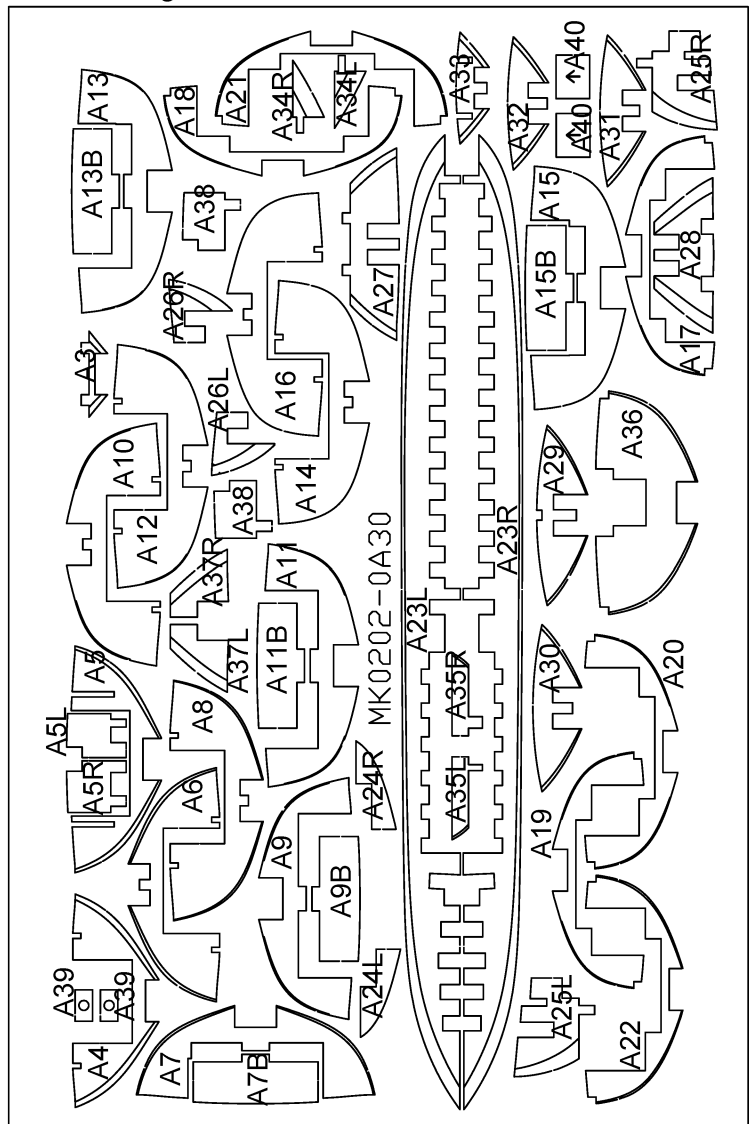
MK0202-0B20, pear 2 mm



Single detail, HDF 3 mm

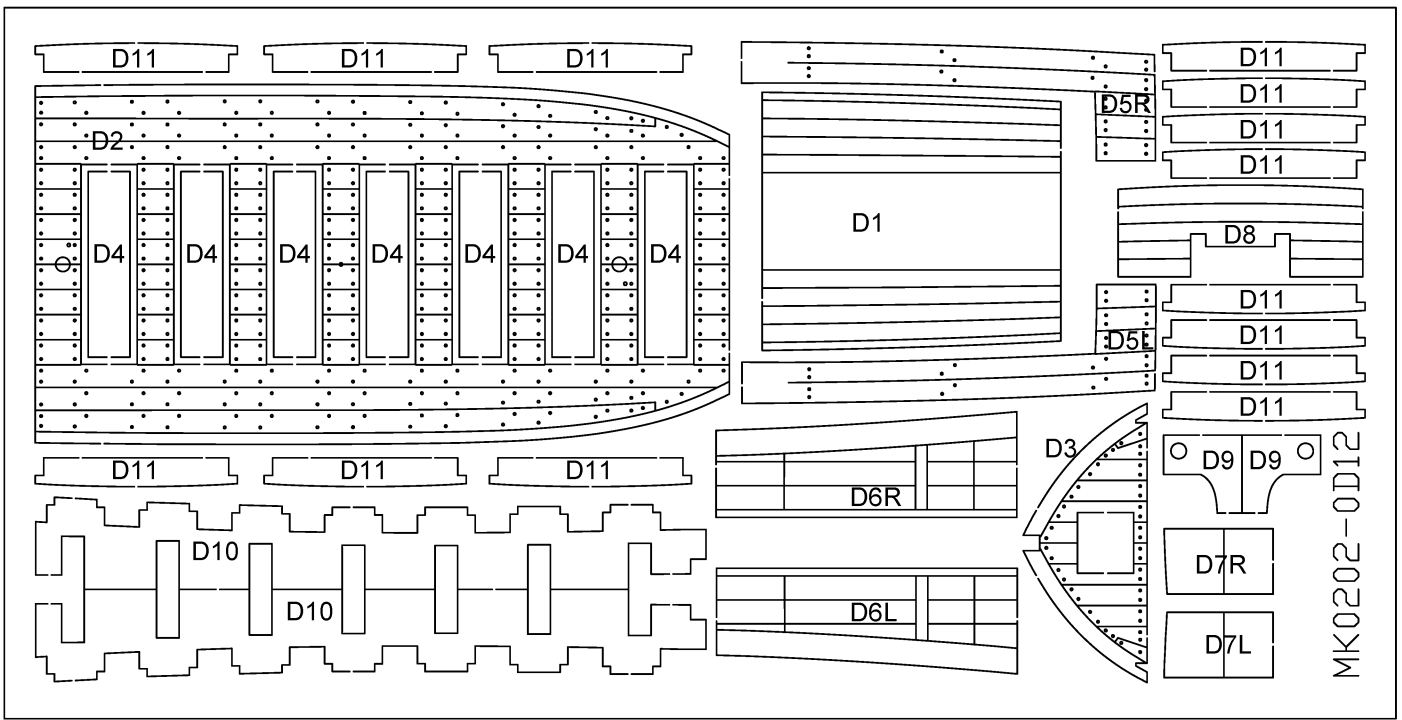


MK0202-0C15, pear 1.5 mm

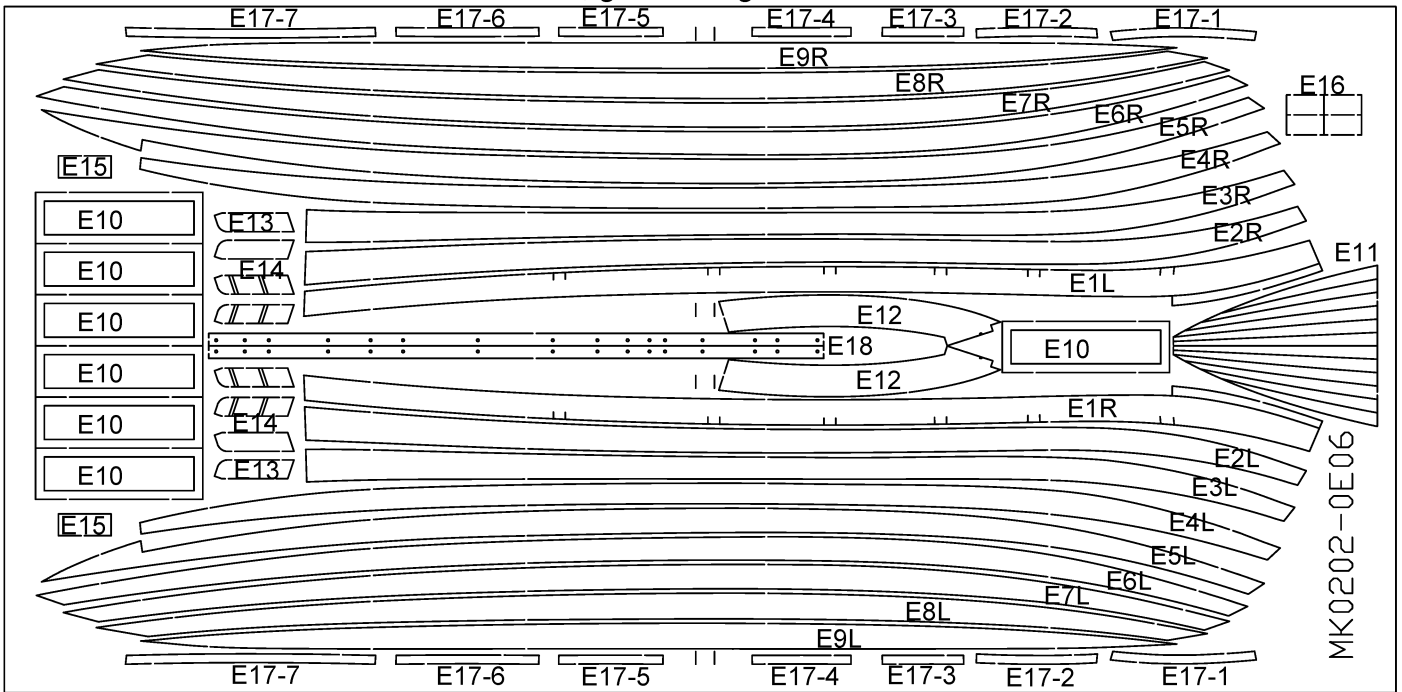


MK0202-0A30, plywood 3 mm

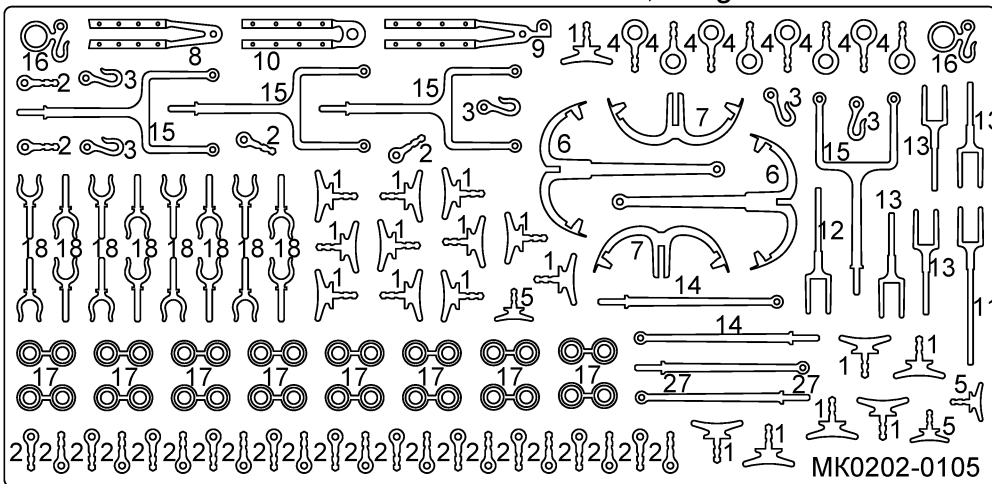
Attention! Details are shown in a different scale!



MK0202-0D12, glued anegri veneer 1.2 mm

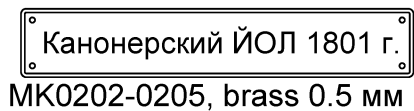


MK0202-0E06, anegri veneer 0.6 mm

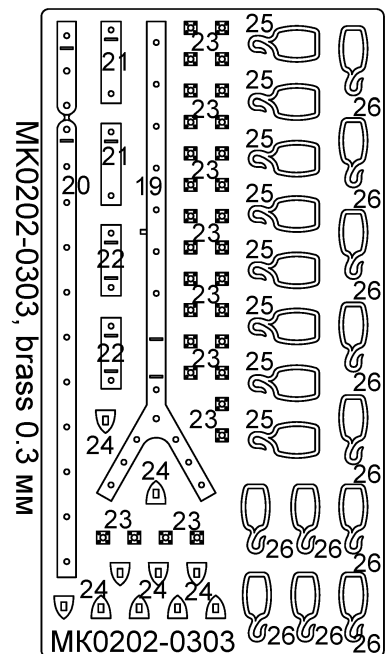


MK0202-0105, brass 0.5 mm

Attention! Details are shown in a different scale!



MK0202-0205, brass 0.5 mm

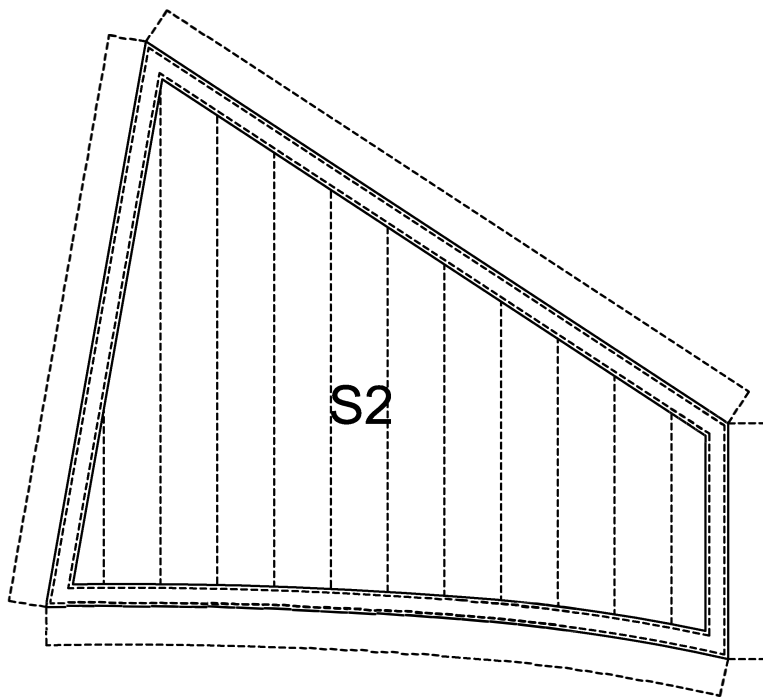
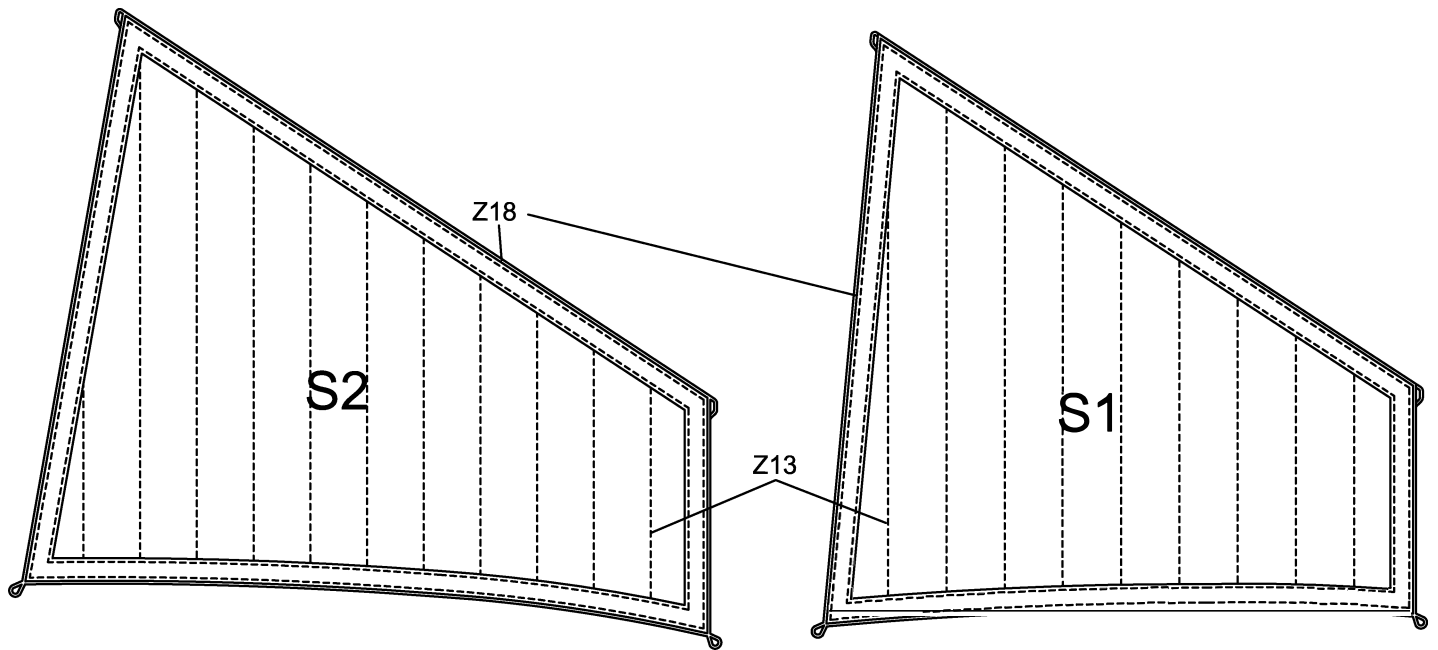


MK0202-0303, brass 0.3 mm

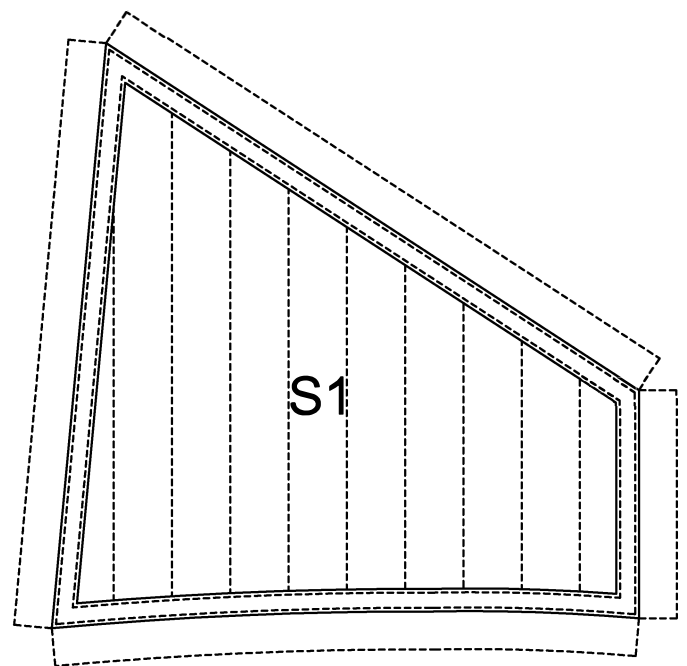
The kit Cannon Jolle

art. MK0202

Drawings and patterns of sails



Pattern S2.



Pattern S1.

Drawing C.1, M1:1
Drawings and patterns
foresail S1 and mainsail S2

A list of the printed documentations for model Cannon Jolle 1801, art. MK0202, Scale 1:72.

- 1.1. Assembly instruction
- 1.2. Specification
- 1.3. Rigging table (distribution of rigging elements for gear)
- 1.4. Diagram of location of details on plates
- 1.5. Patterns (drawings) of sails
2. Drawings (2 worksheets of A3)
3. Assembly photo instruction (booklet).