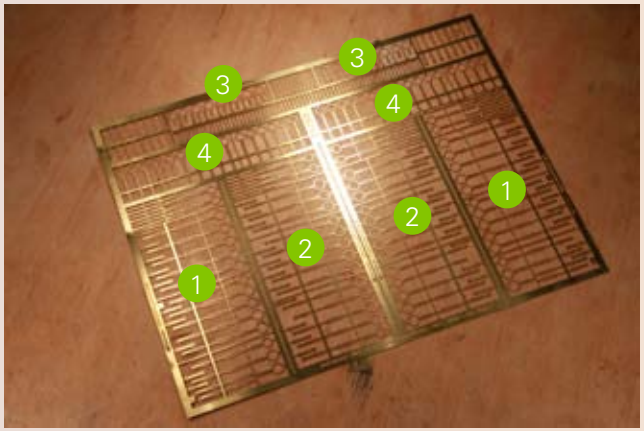


1 Main mast sb/port
3 mizzen mast sb/port
2 Fore mast sb/ port
4 Futtock shrouds sb/port

Required basic tools:

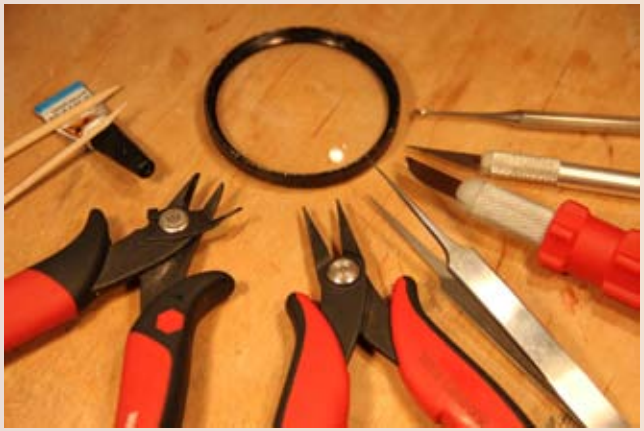
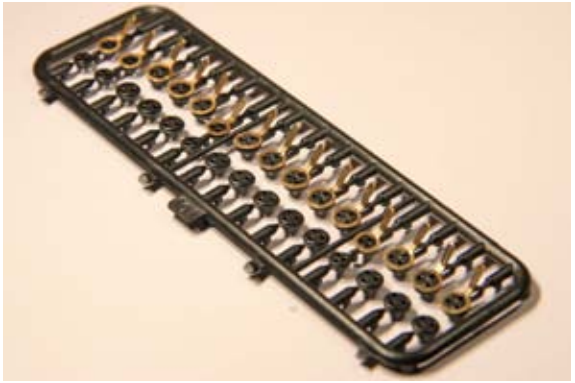


Plate 3

Deadeye chains



Heller provides a little jig to prefix the lanyards onto the deadeyes.

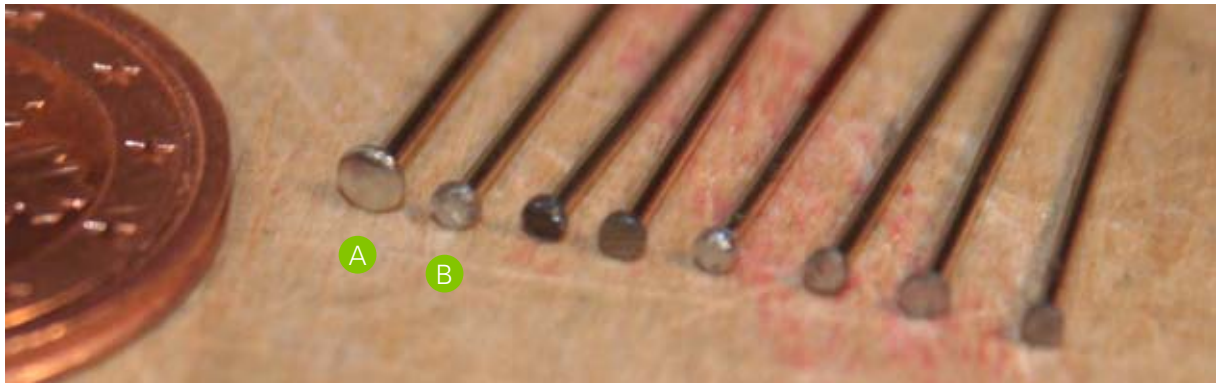
If you wish to use those, first blacken the brass parts (here with blank parts for clarity reasons), then bend the lower part. Then slide the irons onto the backside of the deadeye and fix with CA.
Next you can add the paint. After fitting the lanyards the parts can be cut off. Afterwards one still needs to touch up the marks of the cutting with some paint.

The better version is the one that will be presented in these instructions. It is to cut and fit the deadeyes onto hull and shrouds and fit the lanyards as last, as on the real ship.

Attention: This system is optimised for the provided heller deadeyes. It can be adjusted for wooden ones, please try out carefully before doing it!
More details see page 9.

Plate 3

Preparing the bolts

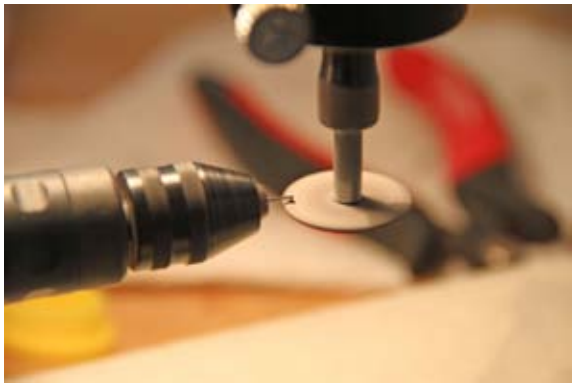


Preparing the bolts:
Use normal needles of max. 0,7 mm diameter of the shaft and a flat head. Put into a Dremel (or Proxxon or any other fast revolving machine) and reduce the diameter and height of the head even more by using a file.

A Original size

B Reduced head in diameter and height

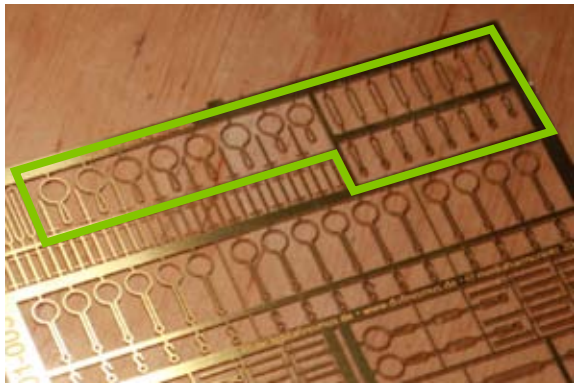
Afterwards shorten the shaft to 3 to 4 mm.



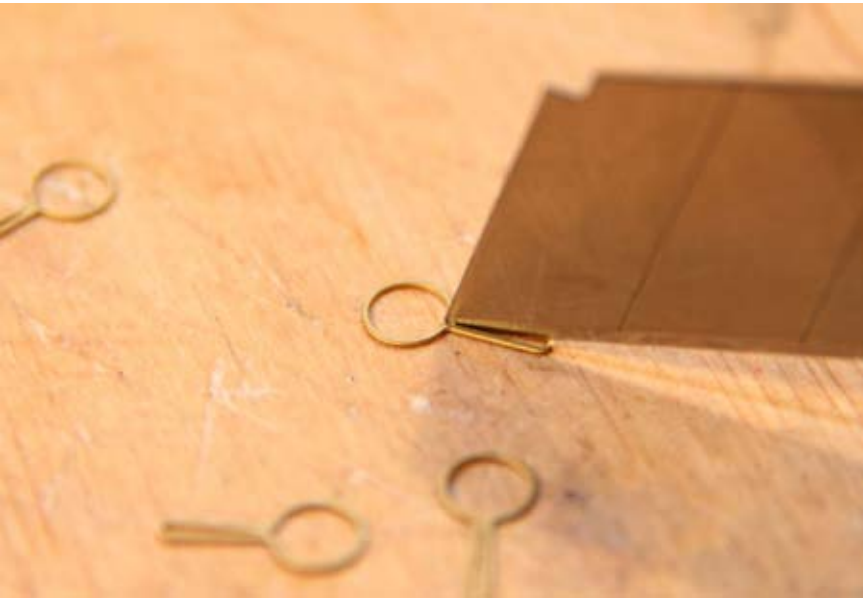
Even faster it works with the Double-Twin-Super-Drive-Technology: Put the needle into one machine and have a grinding disc in another one.

Plate 3

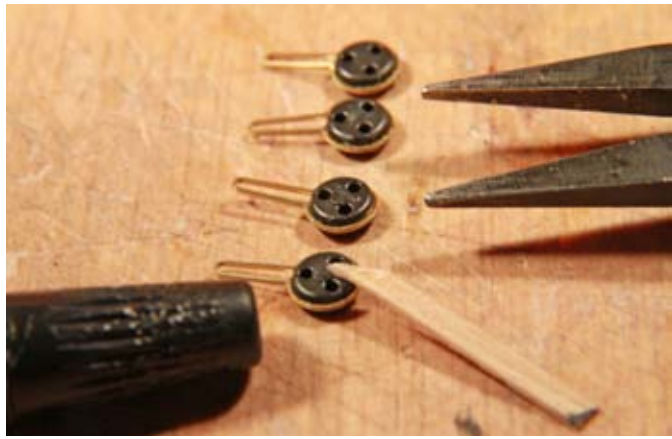
Preparation of the deadeyes and chains mizzen mast (1)



Cut off the irons and eventually open the middle with a sharp cutter or scalpel.



Take off the provided hook from the Heller deadeyes, clean properly and use a pliers to evenly press down the irons over the deadeyes. Make sure that all deadeyes have the same orientation with the middle hole pointing downwards ...



Fix with CA using a small spatula or tooth pick.

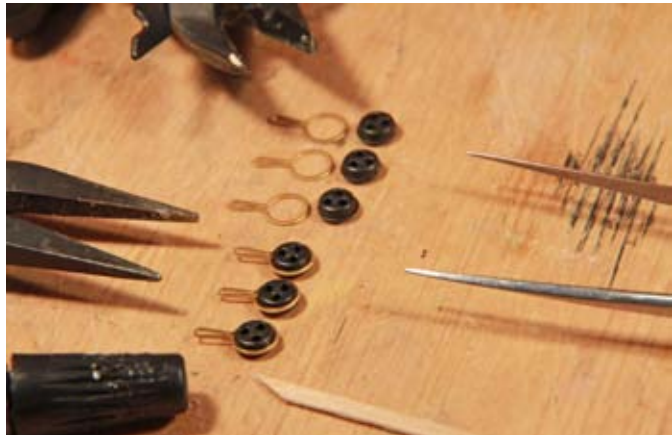


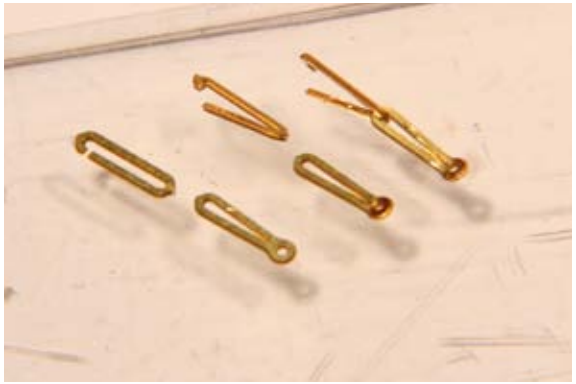
Plate 3

Mizzen chains (2)

Put the 1irons with the dead eyes into the channels.

Latest now bend the lower part of the iron to the necessary angle. It is done best after being in the channels as the angle can now be judged best.

Now prepare the lower irons.
Bend the eye of the lower part and open the middle one slightly *to the side*. Hook in the lower part. The opening of the upper one has to face inwards and up.



After hooking this pair into the upper part, carefully close the middle part using some fine pliers or tweezers.

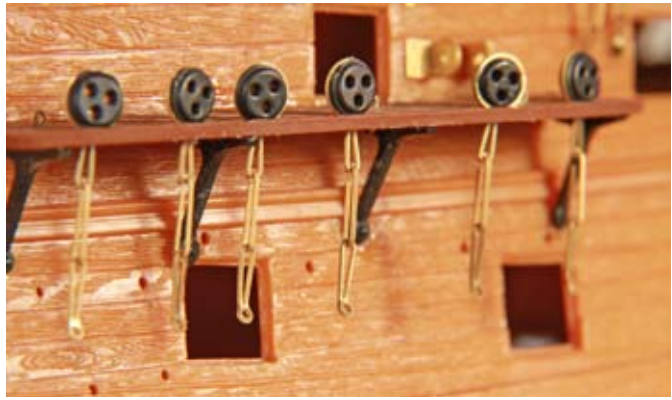
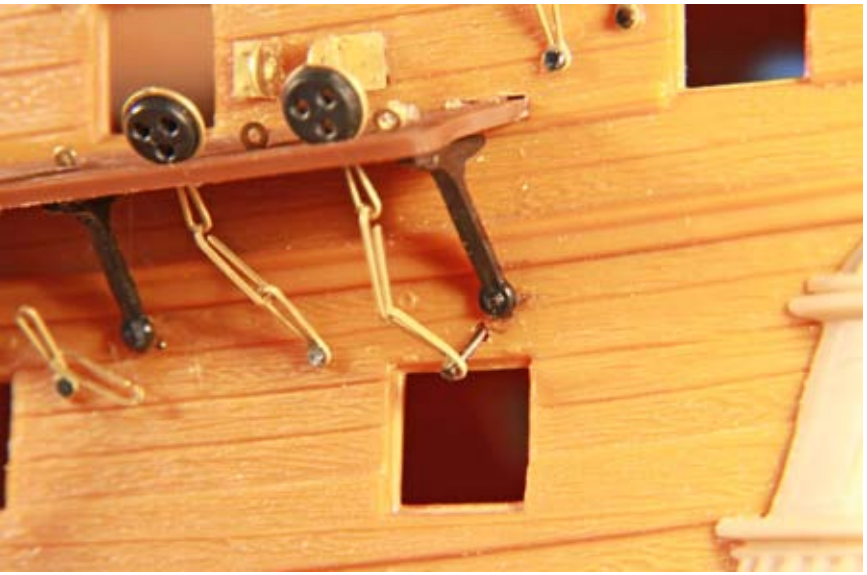


Plate 3

Mizzen chains (3)



Stick the prepared bolts into the eye of the lower part and put some CA onto the shaft and push into the hole of the hull.

The middle part of the third deadeye needs to be shortened. Cut off the upper part of the middle iron and use some fine round pliers and bend to the required length.

The irons are meant to hang slightly loose in the channels.

Stick in the mast and fix some auxiliary „shrouds“ using normal thread ...

... pull the irons upwards and fix them inside the channels with a good touch of CA and cut of the helping threads.

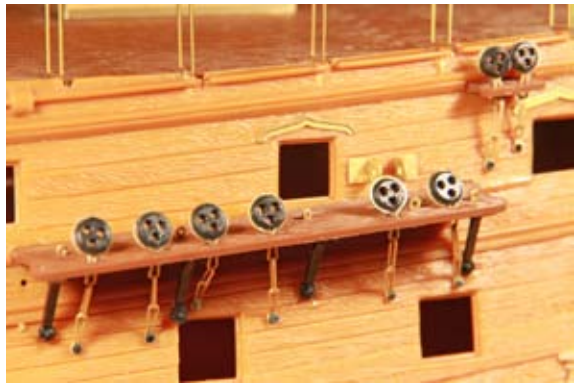
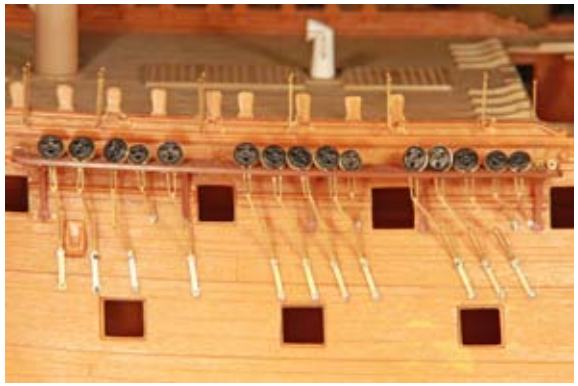
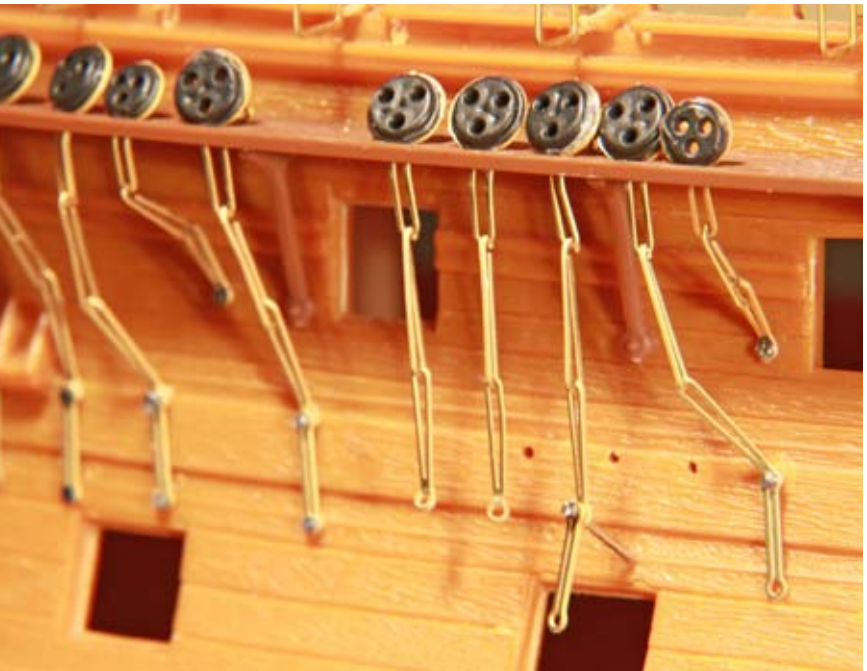
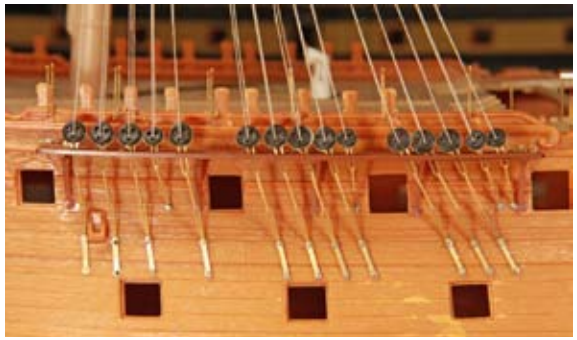


Plate 3

Fore chains

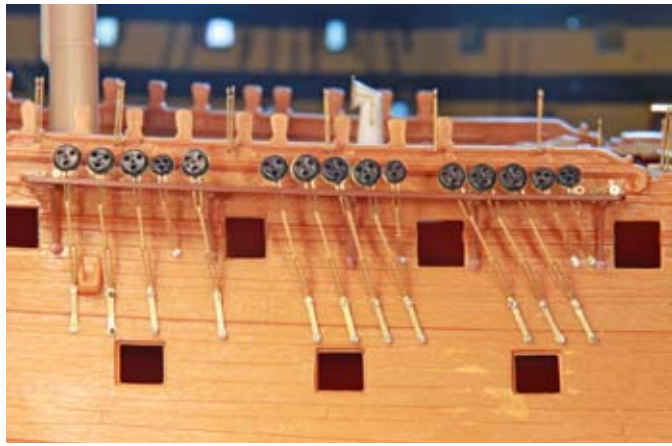






There still is the preventer chain plate for the main and fore channels, but otherwise it is business as usual:

- Glue the deadeyes into the irons
- hook in and bend the lower part
- prepare and hook in the middle parts
- new: mount the preventer chain plate onto the (needle) bolt, and thread though the lower part of the chains
- put a tad of CA onto the shaft of the bolt and push it in and adjust the direction
- fix auxiliary shrouds and adjust the direction of the chains,and fix with CA.
- And new: Drill the hole for the lower bolt of the preventer chain plate and glue in the bolt.



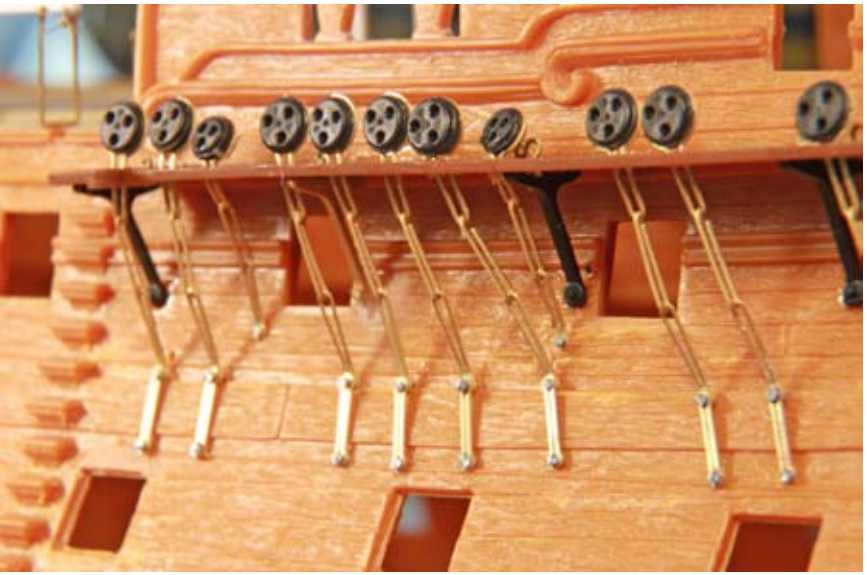
Attention:
The fore channels provided by the kit are too narrow. So the hammock cranes collide with the shrouds. Please consider the following:

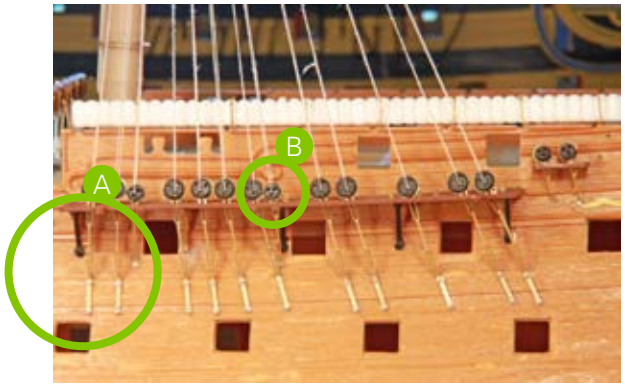
- make scratch build new ones that are larger
- put some styrene in between the hull and the channel board to create distance
- close the holes in the channel board and drill new ones more outside

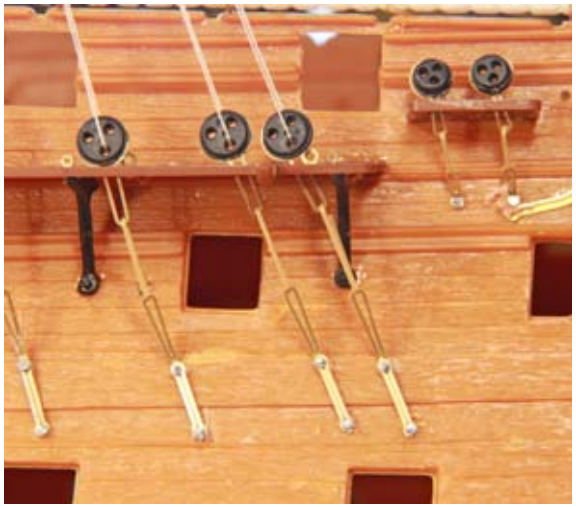
Please check these options before fitting chains and cranes!

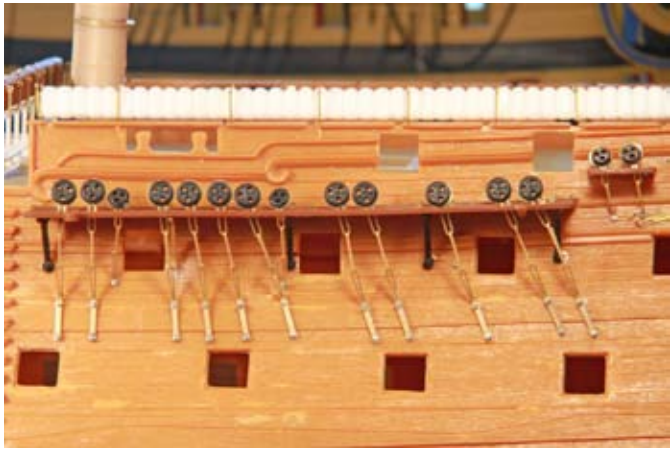
Plate 3

Main chains









Remarks:

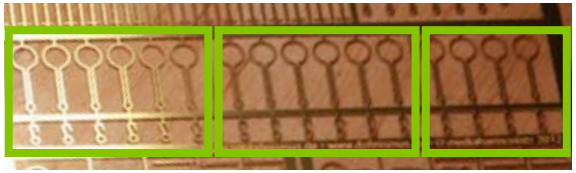
A There is a shorter version for the use with the side entry port

B This deadeye is not provided by Heller. Either leave out or use some drilled sprue to create the missing deadeyes.

Attention:
The lower parts of the chains have different lengths because of the different rake, so do *not* exchange the parts!

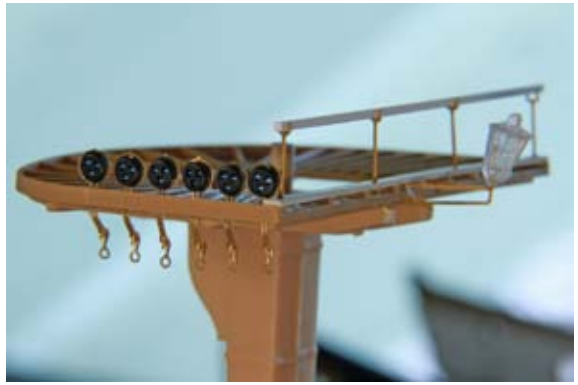
Plate 3

Futtock shrouds



The deadeyes are fixed as described earlier, the holes in the fighting tops have to be broadened using a scalpel or thin file (drilling would give too big holes). The irons have to be well fixed with CA in the hole of the top, and the lower part of the iron has to be bent into the appropriate direction.
The hooks have to be twisted 90 degrees in between the ring and the hook.

Fore, main and mizzen futtock shrouds are identical so no danger of mix ups.



Remark:
Stanchions for the rail and supports for the lantern are on plate 4.

Plate 3

Wooden deadeyes

The chains are optimised for the Heller plastic deadeyes.

Even though the irons are flexible enough to be used with wooden deadeyes. Just open the irons very carfully, if necessairy open cut the neck open inbetween the two bars.

Here shown are the deadeyes from Krick, the big ones for the fore and main channels are 5 mm the other ones are 3,5 mm.

Just try out other suppliers too, just be careful!

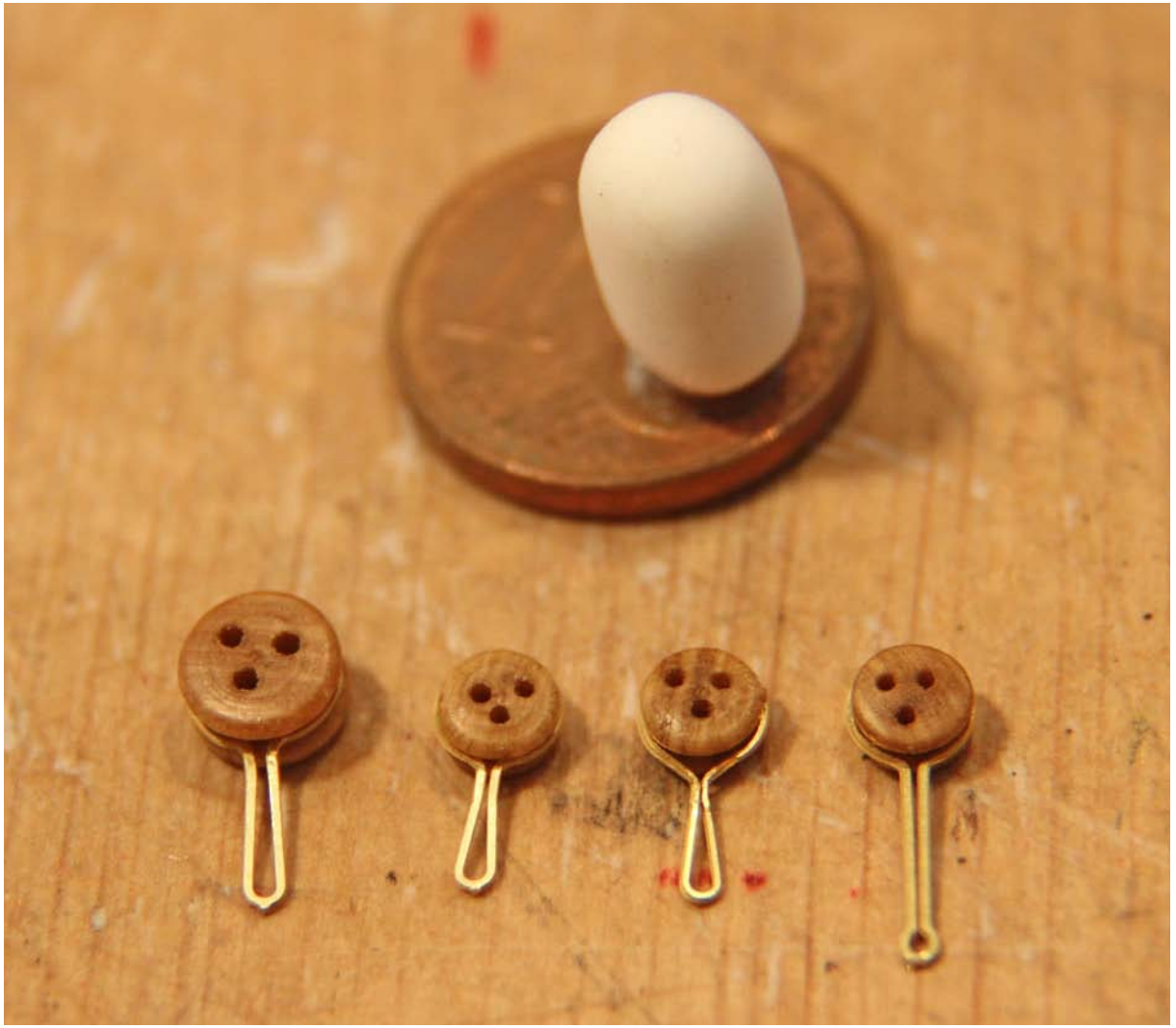


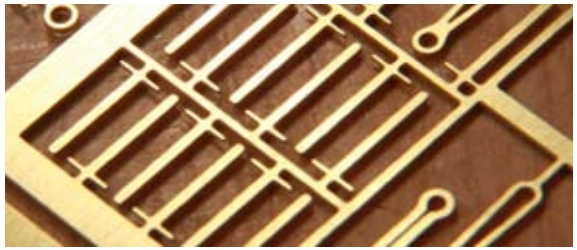
Plate 3

Alternative for the bolts

Attention: This is a **back-up technology** if one has trouble with the way the needles have to be prepared.

Get those T-bits from the sprue and put CA *onto the back part* and and put in from the inside of the hull. Make sure that *no CA gets stuck on the front bit*!

Attention:
This system is not as stable against setting the auxiliary or final shrouds. So they need a good touch of CA to be fixed inside the holes of the channels board.



Secure further with a drop of CA on the inside of the hull.

The pins serve on the outside as fixing point for the lower parts of the chains. Those are just put over and fixed with CA.

To finish, just trim the length and put a tiny drop of white glue onto it to imitate the bolt.

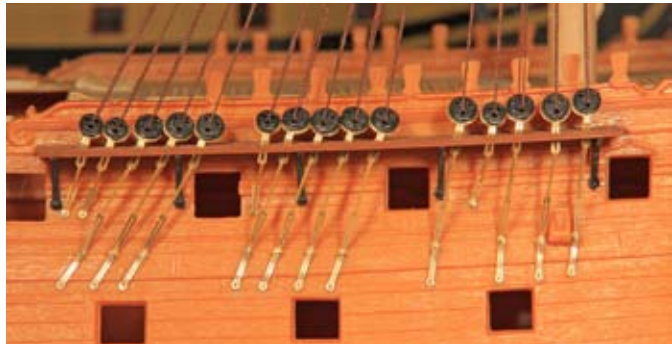


Plate 3

Further remarks

There are extra support brackets for the main channels on plate 6 as Heller parts no. 24 is one short each side in the kit. C

D spare parts

E additional small deadeye

F alternatives for with/without side entry port