

# Métallurgique bogies building instructions

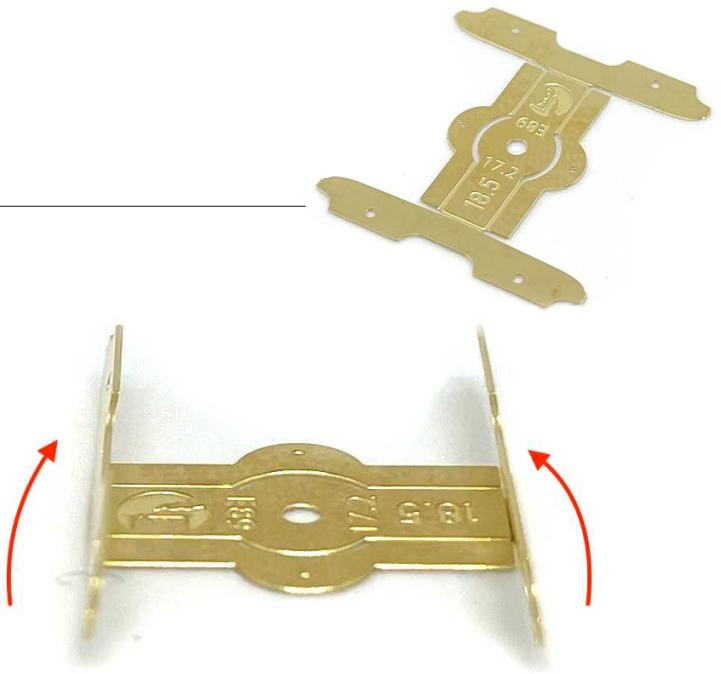
Tools needed:

- Pliers
- Solder and soldering iron (15 or 25W)
- Super glue

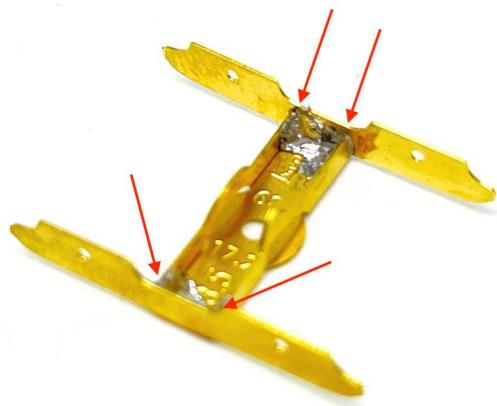
## Bogie frame

Cut the bogie from the fret and clean if from the tabs that were holding it to the fret.

Fold the skirts inward, with the folding line inside. Overfold them like 95 degrees. Eventually they will have to be 90 degrees, but this way you make sure the skirts will press against the centre part of the frame.



Use pliers to fold the two side wings of the centre part of the frame. You might have to overbend these parts as well, so 95 degrees. This is so the wheels don't touch it.



Install the wheels to check if you can spin freely. Then put a blob of solder in each side to solder the skirts against the centre frame.

This part is finished for now. Put it aside.

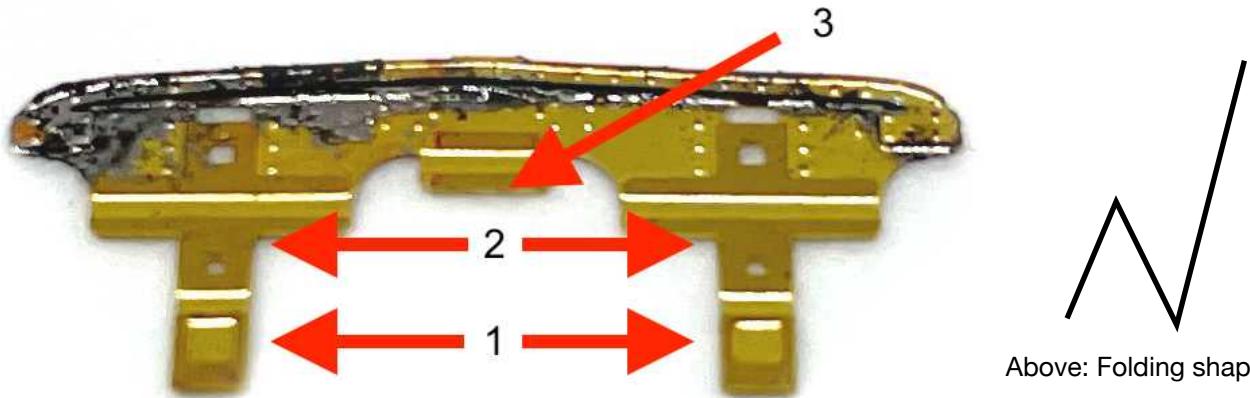
## SIDE SKIRT

Cut the four skirts for the fret. Be very carefully with it, the long thin part will bend easily. Fold that part 180 degrees so that it lays flat on the skirt. You can see there is a space dedicated for it with the same shape. Note: when you are halfway, put solder paint (or super glue) on the thin part, then fold the rest. Make sure it is perfectly aligned.

Solder or super glue the part in place (see next picture). While doing this, keep an eye on the correct alignment.



Now the axle boxes and middle part are folded. The numbers help when following the next steps.



Above: Folding shape

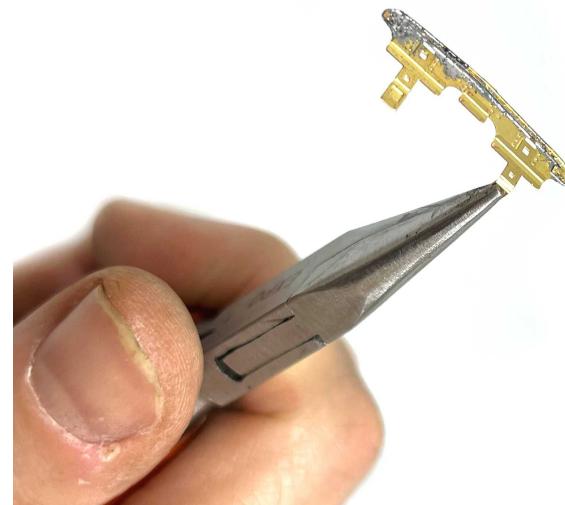
The 3 bottom parts fold like a harmonica (see graphic at the right). Fold **part 1** 90 (!) degrees downwards, not the full 180 degrees! This makes it possible to fold part 2.

Now do the same with part 2, but now fold it 90 degrees upward. Do not fold it the full 180 degrees.

Fold part 3 by 180 degrees. This part does not need to be soldered or glued, but it can be though if you wish.



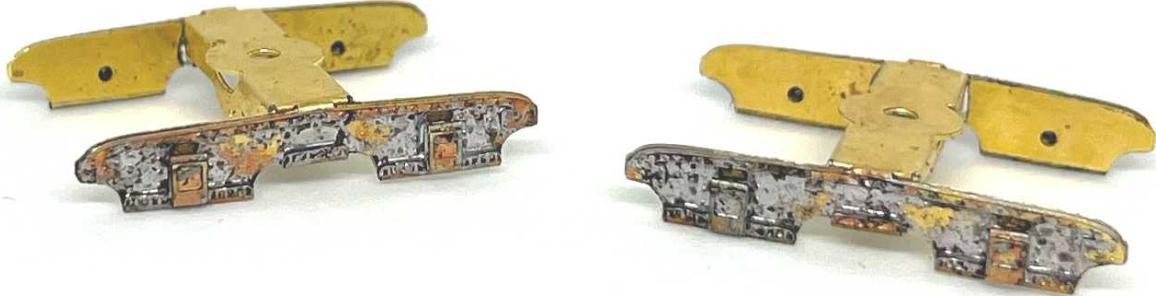
Put solder or super glue on the parts that you've just folded, so all parts fall on top of each other. This includes the "harmonica", which now can be closed completely. Make sure the alignment is correct. Check the back so that the holes are aligned.



This is how it will look like when you are done with this part.



Glue the skirts on the frame. If you align on the top, the holes for the wheel axles should be open to receive the wheels. Insert the wheels and see if they run freely.



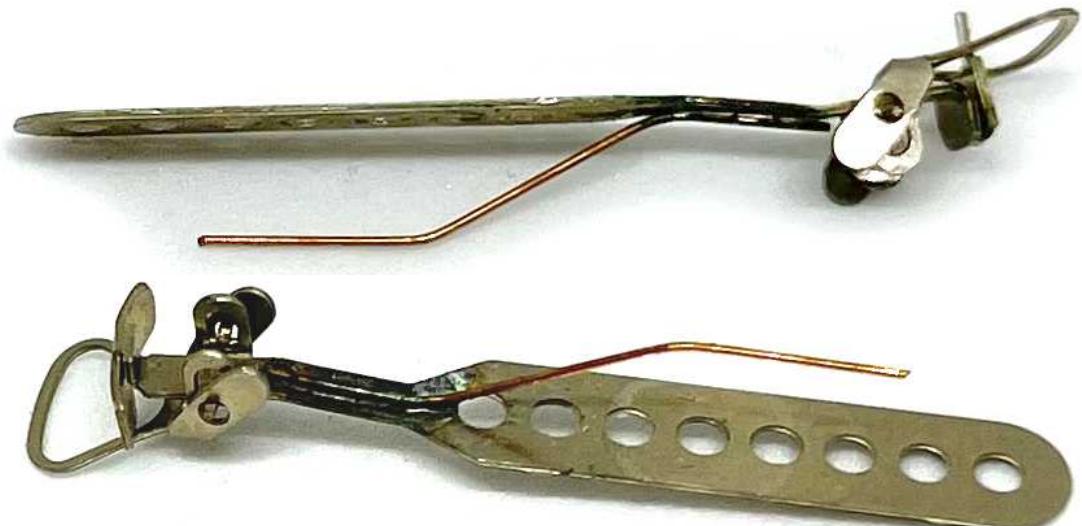
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## Coupling

Now we move our attention to the coupling. Follow the separate instructions how to fold the coupling hook and loop.

About the phosphor bronze wire: This is part of the kit for those who want their coupling to be centred all the time. When you have very tight curves or short points, I advise not to fit these.

Take a piece of the phosphor bronze wire. Bend it in the way seen on the pictures and solder it on the coupling. To get the right length, you have to decide where the centre point of the bogie will be in the coupling. Fit the coupling with a M1.6 screw to the bogie and bend the wire in the right shape.



When the rod is fitted, it goes through the two holes in the bottom of the bogie. It has to fit the whole way through. Cut off excess length and don't solder the wire on the bogie.



This is how it should look like. You might want to give it a test run. Bend the side skirts if they are too tight or too wide. On the picture the decorative part of the side skirts are not fitted, but ignore that. You should have these parts fitted.

## Painting

Remove the couplings from the bogies. Clean the parts with warm water, a drop of dishwasher soap and an old toothbrush. Spray with grey or black etch primer (available from car parts shops, like Halfords) and after drying with your preferred colour for the bogies. I have used black, after which I dry brush it with a variety of brown colours.

And then you end up with this lovely bogie. Even better: two of those!

