

SM17D Etched Footsteps for Cambrian BAA/BBA & Bachmann BAA wagons.

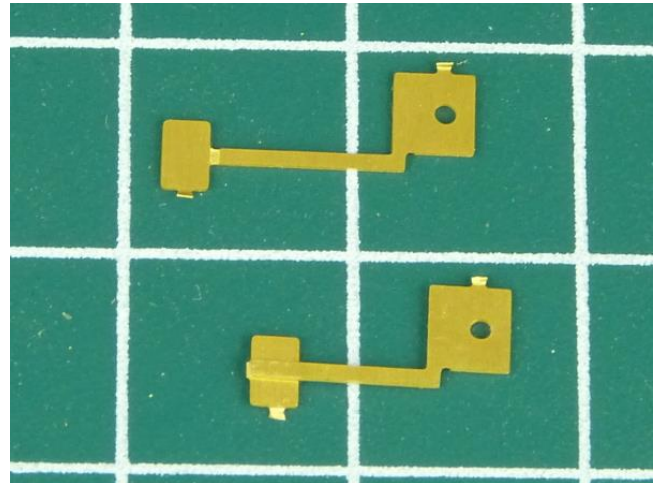
The preparation of the steps is straightforward. Bends can be made using ordinary pliers and hand pressure. They do not require the use of bending jigs such as hold and fold. 90° folds have the half etch on the inside. 180° folds are made with the half etch on the outside.

Safety warning.

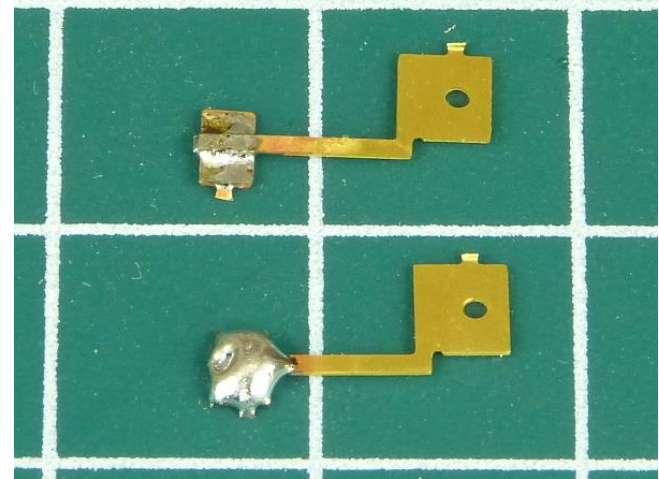
This kit is suitable for adults only. There are small and/or sharp components. The castings and recommended solders contain lead. Observe appropriate hygiene precautions; do not eat or handle food without first washing hands. The tools and materials recommended also require the care in handling; protection for the eyes and face (dust mask) must be applied when soldering and using a mini-drill.

This etch is designed to fit onto the Cambrian BAA and BBA wagons as well as the Bachmann BAA wagon. Note that for the Bachmann BAA there is an 'inner frame' on the underside of the wagon. Some of this frame will need to be removed to enable the footsteps to be fitted.

1. Release the step(s) from the fret. Do **NOT** remove any residual half etch tabs from the steps. This is due the etch being susceptible to damage at this stage. The half etch at the step is a 180° fold and is to be made with the half etch on the outside as shown. Apply appropriate pressure with pliers to ensure the bend is tight. Give a visual check to make sure that the bend is 'square'.

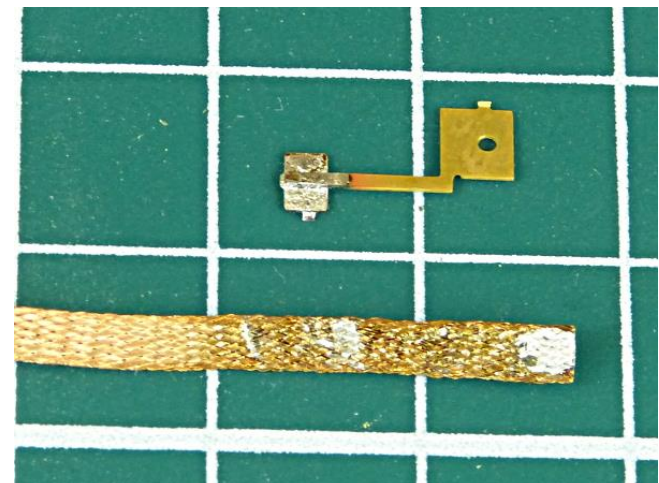


2. Apply flux to the bottom face of the step. Then apply a minimal amount of solder as shown in the upper step.



3. Accidents do happen as shown by the lower step of the above image. The is easy to rectify by using braided Servisol 'Soldamop', or similar, to remove the excess.

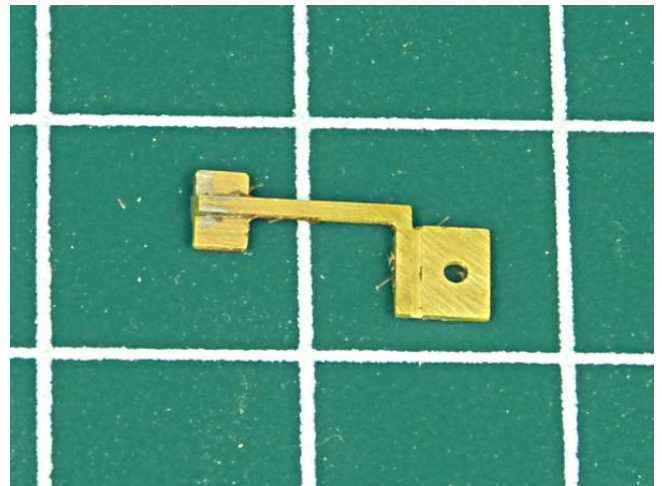
Tip:- If you are having trouble picking up the correct amount of solder, cut slivers off the coil with a scalpel first.



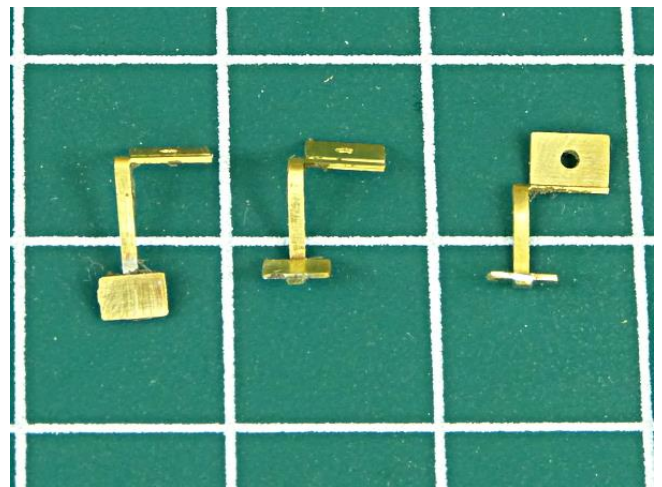
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- Now the step has been soldered, this has strengthened the half etch of the step support. Remove the residual of the half etch tabs at this stage. Also remove the 180° half etch between the support and the footstep.

It is worthwhile to double check the integrity of the solder joint before removing the residual of the half etch tab. Otherwise it could lead to the failure of the half etch joints.



- On the prototype note that the angle of the support is not at 90°, but at a slight angle. The first stage of the shaping process is to bend the support at approximately 95° in line with the part of the etch used to attach it to the underframe. Secondly the support is bent at approximately 85° directly behind the rear of the step. There is no half etch for these two bends as they would otherwise weaken the footstep. Finally, the support is folded at the half etch line 90° inwards. Do not reinforce this last fold with solder as it is needed to seat on the inside of the solebar

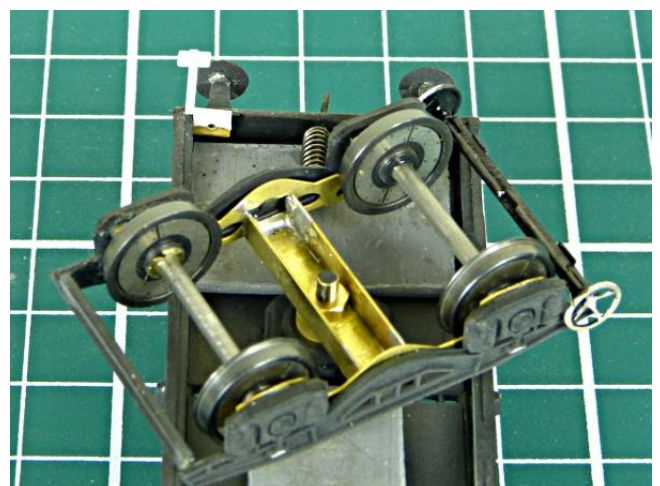


- It's your choice as to whether to paint the step before or after fitting. Whichever way is chosen, ensure the footsteps have been thoroughly cleaned beforehand. The footsteps are designed to sit flush behind the bufferbeam. If aftermarket buffers have been fitted then check they do not protrude past the bufferbeam.

When using the Cambrian kit as a base check that there is no 'step' between the bufferbeam and the solebar as this will affect the position of the footstep. If there is, level as required.

When using the Bachmann BAA as a base there is an 'inner frame' on the model. Some of this will have to be removed to enable the fixing of the footstep

- Apply cyanoacrylate glue to the footstep support and fix to the bufferbeam as shown. Providing the support is flush with the bufferbeam this will result in a strong bond due to the surface area of the support. Check that the support and the step have been folded square in relation to the bufferbeam. Then check there is a slight angle in relation of the support to the solebar as per the prototype.



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