

SM43D Etched Walkway for Bachmann PCA

Please note that the folds do require the use of bending jigs such as the hold and fold. The 90° folds have the half etch on the inside. The 180° folds have 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.

Main Etch Parts List

- 1:- Main Walkway
- 2:- End Walkway
- 3:- End Platform
- 4:- End Platform Support.

Ladder Etch Parts List

- 5:- Ladders
- 6:- Footsteps

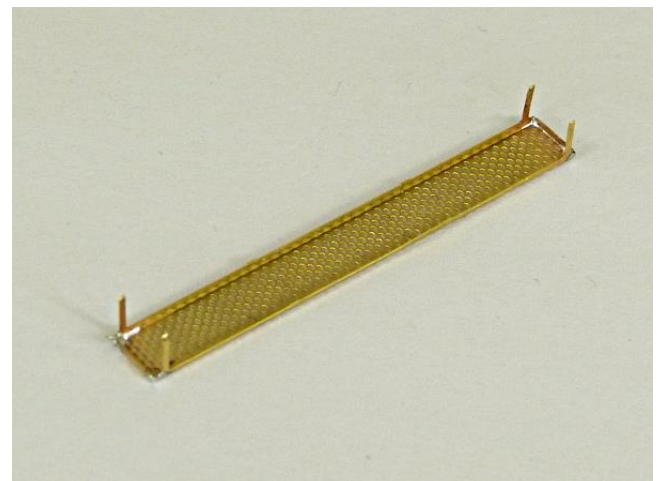
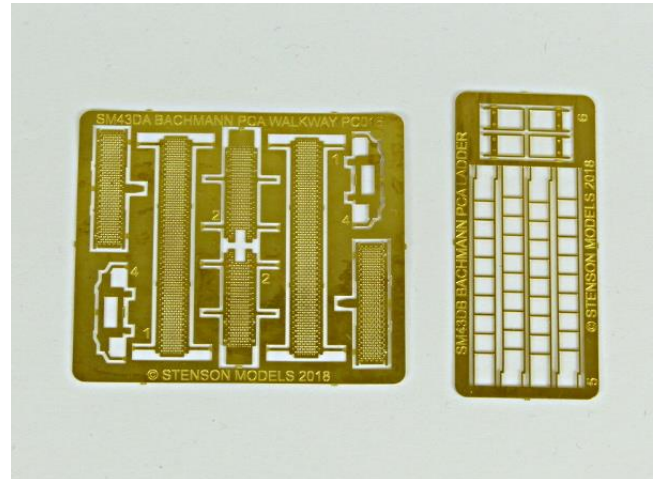
1. Release the main walkway (1) from the fret and remove any residual half etch tabs. Using the hold and fold jig to hold each of the edges carefully bend them at 90°.

Re-enforce the corners with a small amount of solder. Don't use too much solder or the mesh pattern will get flooded.

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

2. Release the end walkway (2) from the fret and remove any residual half etch tabs. Using the hold and fold jig to hold each of the two straight edge and carefully bend them at 90°. Bend the small tabs at the inner end through 90° with a pair of snipe nose pliers. Bend the outer end through 90° by hand. Re-enforce the corners with a small amount of solder.

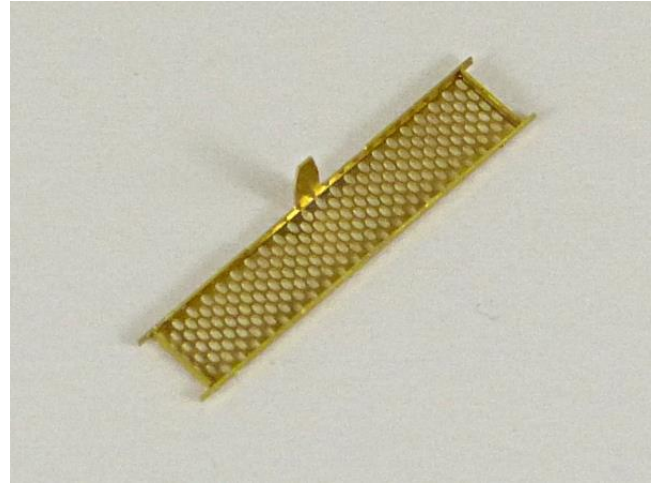
Open the holes for the handrails to 0.4mmØ either using a broach or a drill in a pin chuck. Fashion the handrails from 0.4mm Ø wire (not supplied) and solder in place taking care not to flood the mesh pattern.



SM43D Etched Walkway for Bachmann PCA

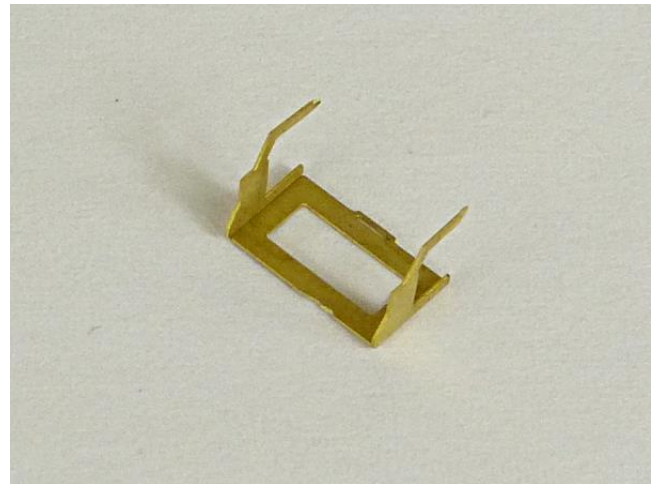
3. Release the end platform (3) and remove any residual half etch tabs. Do not remove the two small locating pips either side of the half etch on the forward edge of the platform in this process. These locate the support in place and represent the angle of the angle iron.

Use the hold and fold jig to fold the rear side at 90° leaving the locating tabs parallel with the walkway. Then fold the remaining edges.



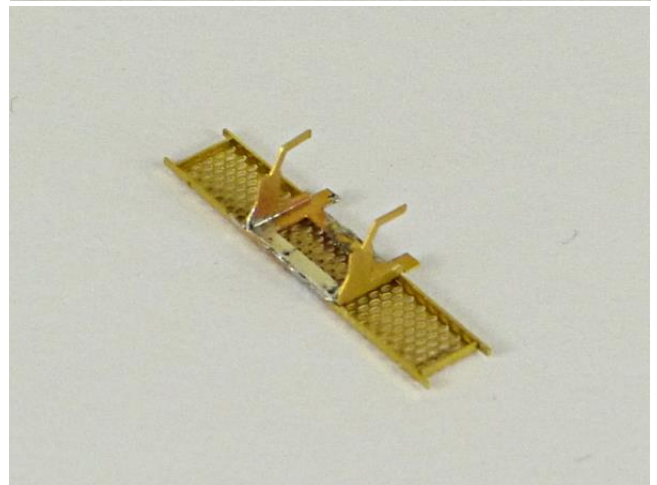
4. Release the support (4) and remove any residual half etch tabs.

Bend the support legs at 90°.



5. Locate the support slot over the upright tab on the platform. Ensure that the front of the support is located inside of the front edge of the walkway. There is small overlap on the upright supports which sits on top of the front edge between the two locating pips.

When satisfied with the location of the support solder the two items together around the tab and the front edges. Remove the excess material from the tab and slot.



6. Open the holes for the handrails to 0.4mmØ either using a broach or a drill in a pin chuck.

Using the handrail on the Bachmann PCA end platform as a template, fashion the replacement handrail from 0.4mm Ø wire (not supplied) and solder in place.



SM43D Etched Walkway for Bachmann PCA

- 7 Attention is now turned to the wagon to be detailed. Using a sharp scalpel remove the main walkway which is held underneath in two places at roughly 1/5th and 4/5th positions. The end walkway is held in two positions as well

The base of the ladders was carefully cut where they meet the top of the underframe. The platform was then moved up and down until the plastic locating tabs broke.

Also remove the footsteps at this stage.

- 8 Where the ladder was located in the underframe, the holes were re-drilled using a 0.5mm Ø drill. To obtain enough clearance for the chuck, the body screws were undone and body moved to the side. You may be lucky and the ladder remains ping out with a little pressure.

The top holes for the location of the platform end supports were each drilled with two 0.5mm Ø holes on the bottom of the marks were the original platform was removed.

The platform end was then located into the holes and the lower holes marked and then drilled 0.8mm Ø. These are slightly below the original support hole

- 9 The holes for the main and end walkway support were made with a 0.8mm Ø drill. There were witness marks on the paint finish to assist with their location.

- 10 The ladders (5) were then released from the fret using a pair of scissors. This was found to be the best method so as not to distort the ladders. Notice there is an offset at the base of the ladder to replicate that on the Bachmann model. Using the original ladders as a template bend the brass ladders at the same location to match. Ensure that one ladder is bent 'left handed' and the other is 'right handed'.

When happy that the angles of the ladders are correct, offer the ladder to the holes in the underframe and to the end platform. Ensuring everything is square, solder the ladder to the walkway, taking care not to touch the plastic wagon body.



SM43D Etched Walkway for Bachmann PCA

- 11 It is essential that the joints between the ladder and walkway are strong. The excess material can now be to be trimmed to length.

The ladders will also need to be trimmed at the base so as not to intrude into the U channel of the solebar. This is best done after painting.



- 12 Release the steps (6) and fold into a 'Z' shape. It was found that it was best to first fold the tangs individually. Then to fold the uprights of the step together.

Drill out the holes for the steps 0.7mm Ø if the steps had to be cut off. Take care not to drill right through the top of the underframe.



- 13 After cleaning, the walkways platforms and ladders are ready for painting. Tamiya Fine Detail undercoat is found to be a good match to start with. The steps to be painted white. Apply weathering to your taste, these wagons don't remain clean for long in use!



- 14 The wagon modelled is also shown fitted with replacement handwheels, and disc brake inserts. Both of which are available from Stenson Models. As originally fitted these wagons had handwheels with four curly spokes, which is a characteristic of Powell Duffryn wagons. But as time has progressed they have been fitted with scalloped and four spoke handwheels as replacements when required. Please check photographs of your prototype wagon.



SM43D Etched Walkway for Bachmann PCA

<http://www.stensonmodels.co.uk/product/handwheels-modern-uk-4-types-cc06d/>

<http://www.stensonmodels.co.uk/product/18-handwheels/>

<http://www.stensonmodels.co.uk/product/disc-brake-cc07w-the-most-popular-and-useful-size/>

Email: stensonmodels@btinternet.com

Website: www.stensonmodels.co.uk

