

SM47D Etched Walkway (long platform) for Bachmann TTA.

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.

This walkway converts the Bachmann TTA to the following Pickering design codes: - TT026x, TT027x, TT088x, TT091x

Please check carefully against prototype photo's as to which underframe details are used with your chosen wagon. There are three different variations all of which are available from Stenson Models.

<http://www.stensonmodels.co.uk/product/tta-pickering-replacement-brake-lever-type-a-4mm-sm45d/>

<http://www.stensonmodels.co.uk/product/tta-replacement-brake-lever-type-b-4mm-sm46d/>

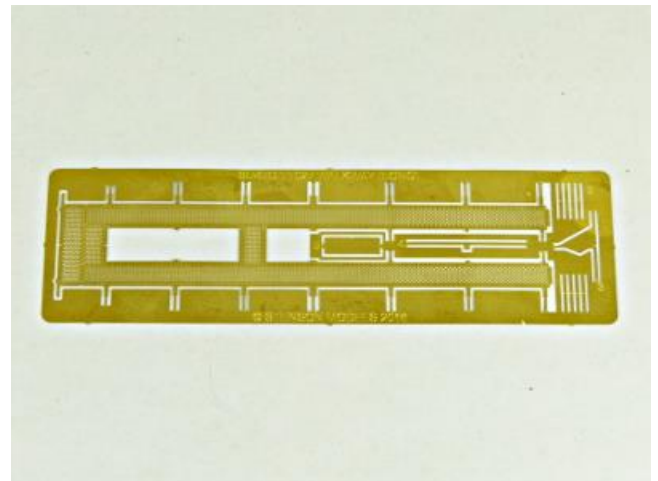
<http://www.stensonmodels.co.uk/product/tta-mka-mta-pna-poa-zka-replacement-brake-lever-4mm-sm16d/>

For the ladders it is recommended to use the following product.

<http://www.stensonmodels.co.uk/product/ladders-etched-ladder-kit-cc04d/>

Parts List

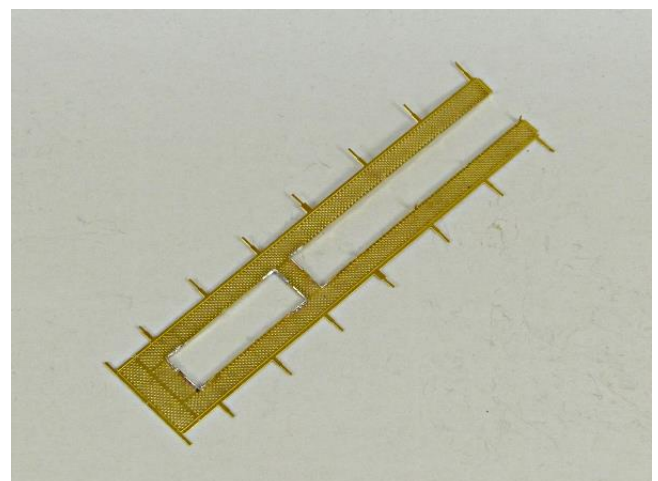
- 1:- Main Walkway
- 2:- Re-enforcing Strips (including two spares)
- 3:- End support
- 4:- End support cross piece
- 5:- Wagon number board



1. Remove the walkway (1) from the fret. Using the hold and fold jig to hold the platform and carefully bend the seven inner walkway edges.

Remove a corner re-enforcing strip (2) from the fret and fold at 90°. Apply flux to the corner to be re-enforced and hold the strip in place with a pair of tweezers. Locate the strip in place using a small amount of solder at the corner, allowing the solder to flow along the joint. Do not apply excess solder otherwise the mesh pattern will be flooded. Repeat until all six inner corners are done. Take care not to flood the notch in the ladder end edge.

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

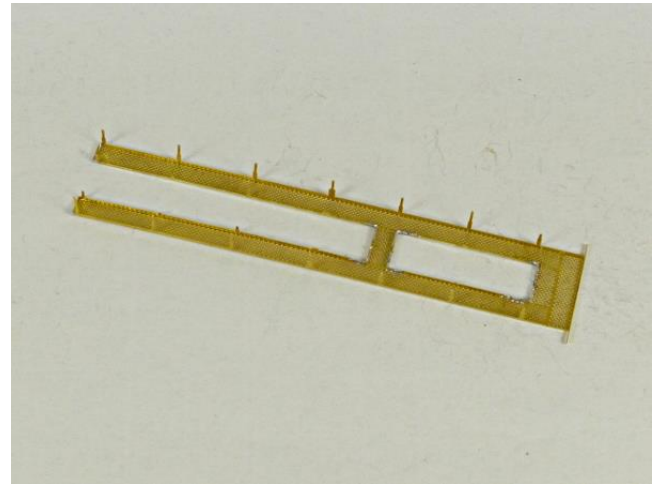


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- Next fold the two edges along the length of the walkway using the hold and fold tool. Ensure that you do not bend the two supports at the ladder end.

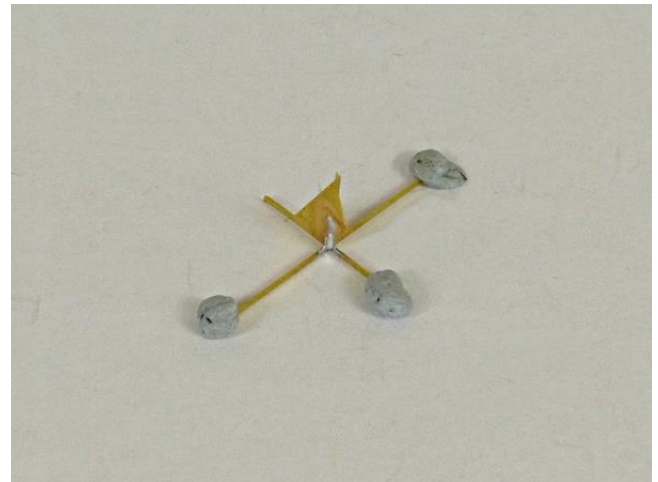
Then fold the two small edges along the end of the platform. Apply a small amount of solder to these four corners to reinforce them, taking care not to flood the tread pattern.

Finally fold the long edge at the ladder end.



- Release the end support (3) and end support cross piece (4) from the fret. Assemble together at 90° and then solder at the join.

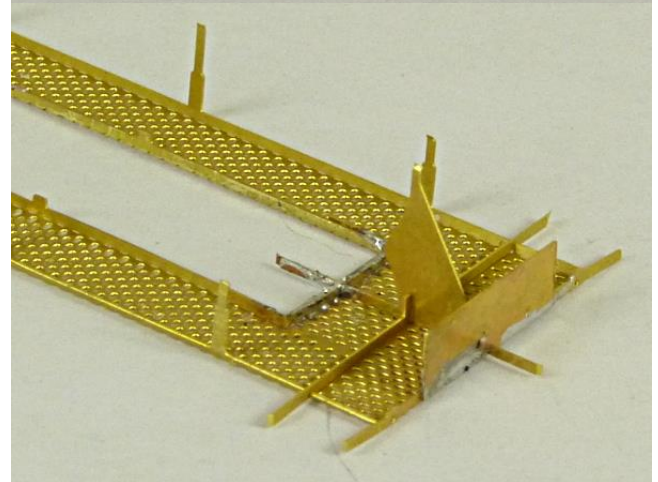
Note that small pieces of blu tac will help with this procedure.



- If your prototype wagon has a number board, release the part from the fret (5) and remove any residual half etches. Tin the edge of the of the walkway and the inner edge of the number board taking care not to flood either of the notches.

Place the support assembly centrally into the four notches and solder the join on the inner edge. Then place the number board over support extension and 'sweat' the board to the edge.

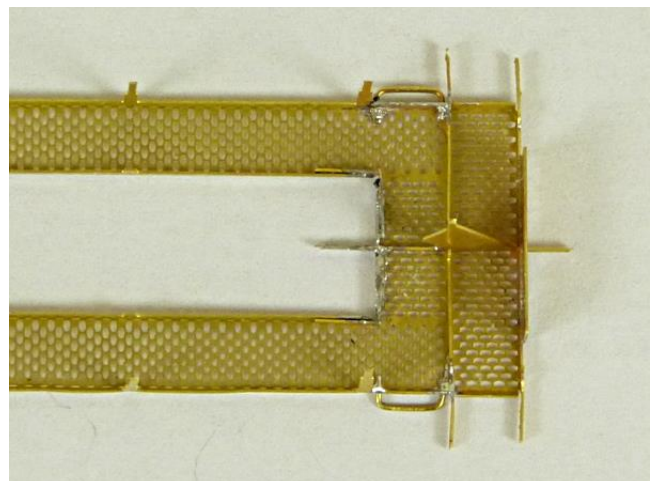
Apply solder to support extension as appropriate.



- Open up the four holes for the grab rails to accept 0.3mm Ø wire (if required) and the two hand rail hole to accept 0.4mm Ø wire using a broach or a sharp drill in a pin chuck.

The grab rails are made from 0.3mm Ø wire (not included), the hole centres on the walkway edge are 3.5mm centres. When you are happy with the fit trim the 'tang's back as far as you are comfortable with. Then using a small amount of solder attached them in place. Also, this should tack the inner ladder support into place at the same time.

Remove the support extensions on the inner and outer edges at this stage.



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- There appear to be two types of handrail on the platform, one is angular and the other an arc. Please see images at the end of this document. The prototype chosen was the arc type.

Fashion the hand rail from 0.4mm \varnothing wire (not included) so that the top of the arc is 2mm above the platform. Shorten the 'tang's of the handrail as far as you are comfortable with and solder in place. This should also tack the outer support in place at the same time.

Remove the reinforcement below the handrails at this point

- Carefully remove the moulded walkway from the tank. The ladders are a push fit and should just come out of the holes on the underframe. The walkway itself is held onto the tank in three positions on its underside.

Starting at the ladder end slide a scalpel underneath the walkway. Move the scalpel to and fro until the join is broken. Then move onto the next join.

It should be noted there is variable usage of glue, with some joins being more stubborn than others.

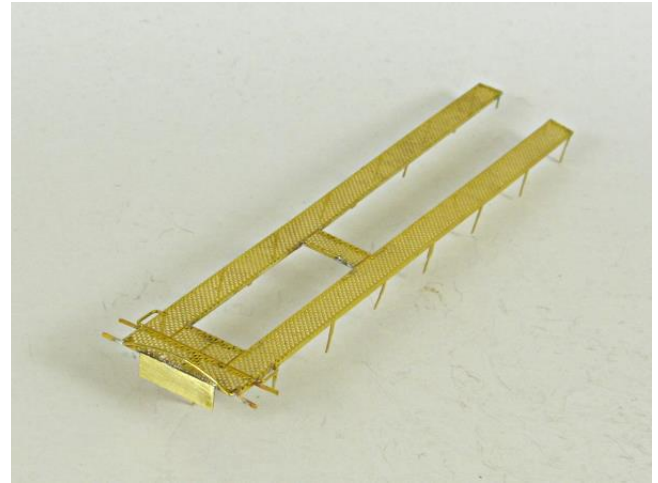
- In this example the walkway virtually fell out. The base of the wagon was carefully removed and the walkway holes were backed with plasticard and filled with a 'filler of your choice'.

It should be noted that the wagon weighs 40g in total. This is under the Iain Rice recommendation of around 25g per axle. So, if you feel it advantageous the opportunity could be taken to use the space to add extra weight.

For this type of walkway, remove the pressure valve at this stage.

- Cut out the template provided and temporarily fix to the barrel using Prit Stick or similar glue. The line down the centre of the template should line up with the centre mould line on the barrel, while the L denotes the ladder end. The two lines at 90° should line up with the barrel joins.

Use a pointed implement like a compass point to mark the positions of the walkway uprights. Then use a 0.7mm \varnothing drill to create the holes for the walkway uprights.

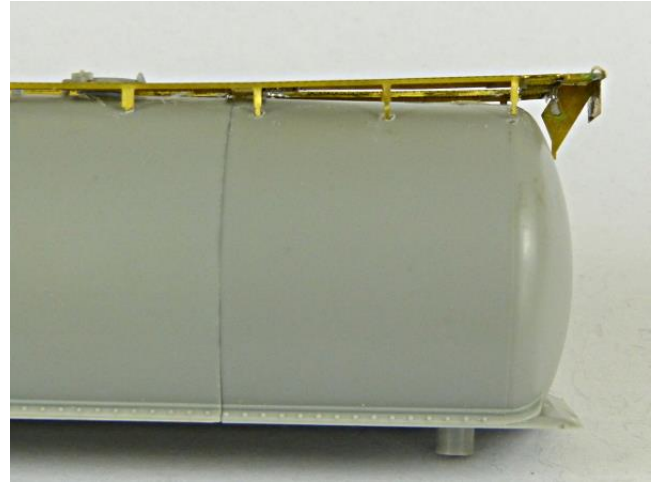


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10. Offer the walkway to the barrel and carefully 'tease' the uprights into the holes just drilled. Clean out and adjust the holes as required.

Note that the platform needs to be carefully manoeuvred around the filler cap to prevent any distortion.

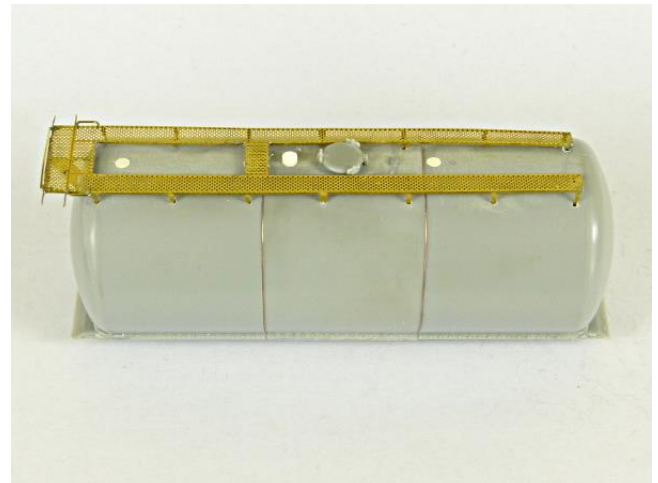
At the ladder end the support can now be used to mark and drill a hole for the tang to be inserted.



11. The walkway should now be able to sit on the tank barrel, but don't fix it in place just yet.

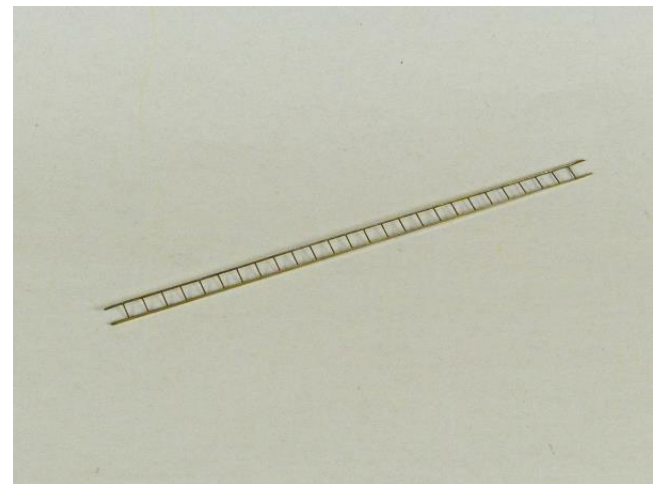
Replace the pressure valve with rod 2.5mm \varnothing centred 4mm from the inner platform edge, protruding 1.5mm above the barrel.

Now is the time to smooth off the filler and remove the centre mould line of the barrel. The uneven joins of the barrel can be disguised by using CA glue to fix a very thin strands of wire in the join.



12. Assemble one length of ladder using the 4mm (12") jig using this product (not supplied with kit).

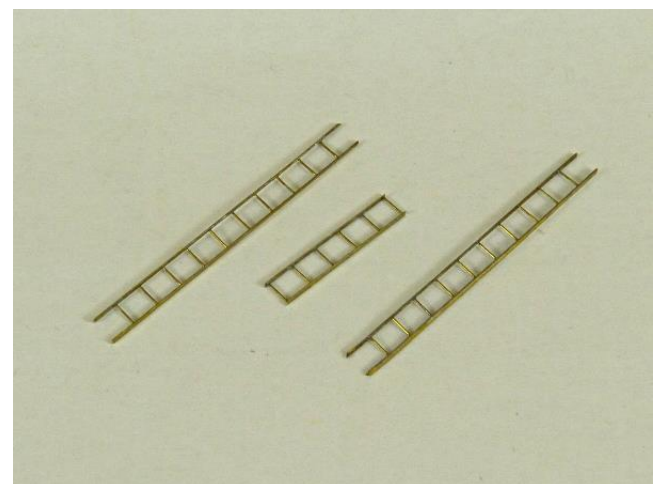
<http://www.stensonmodels.co.uk/product/ladders-etched-ladder-kit-cc04d/>



13. Starting from the end of the ladder count down to the eleventh rungs. Cut both staves just before the eleventh rung.

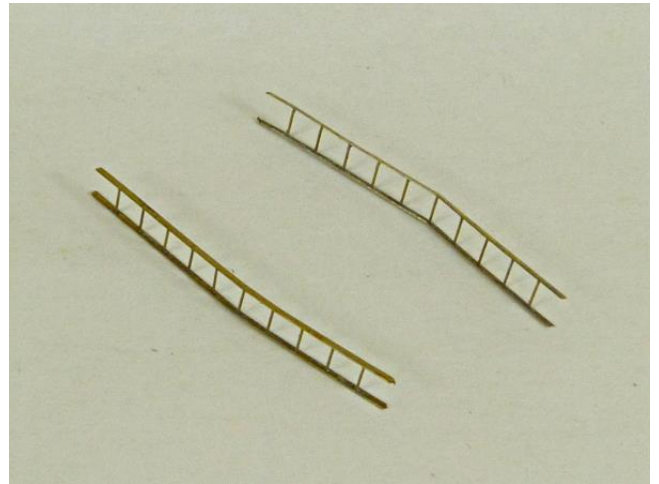
Starting at the uncut end repeat the cuts again.

You will be left with three lengths as shown. Put the small length in a safe place for a rainy day.



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14. Counting from the foot of the ladders put a slight bend as shown at the position of the fifth rung. This was best done by gently gripping the staves in a pair of pliers.



15. Offer all the parts together in a dry run to ensure that they fit together. Remove and paint all the parts separately.

Tamiya Fine Surface Primer – Light Grey has been found to be a reasonable match for the grey of the tank body.



16. When painted attach the walkway to the body using CA glue.

The top rung of the ladder is now positioned level with the top of walkway. Trim the bottom of the ladder so that it does not protrude into the solebar U channel. Attach the ladder at the base with CA glue.

The top of the ladder can now be attached using CA glue. Any excess in the ladder and supports can now be trimmed back.



The wagon modelled is also shown fitted with replacement Pickering Type B Brake Lever, Bruninghaus Springs and Hazchem Boards. All of which are available from Stenson Models.

<http://www.stensonmodels.co.uk/product>

<http://www.stensonmodels.co.uk/product>

<http://www.stensonmodels.co.uk/product/tta-mka-mta-pna-poa-zka-bruninghaus-springs-4mm-sm36d/>

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