

Trevor Quarry Breaker Wagon

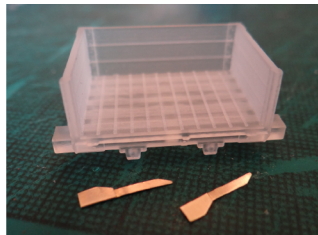
Instructions for completing PRW-015

1



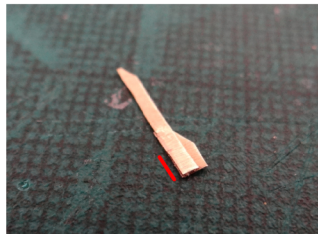
Using a glue stick gently attach the cut out part of this sheet to a piece of 0.12mm brass sheet. Due to the small nature of the parts I find it easiest to score along the red lines with a sharp modelling knife before cutting out the parts using tin snips or strong scissors. Now remove the templates and clean off any remaining glue.

2



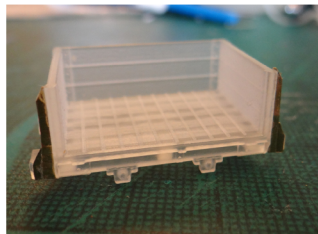
Form the parts by folding the metal through 180 degrees along the fold line. This is best achieved using a hold-and-fold (or similar tool) to fold to just over 90 degrees and then with your fingers to fold the rest of the way. To get the part nice and flat simply squeeze the fold using the hold-and-fold.

3



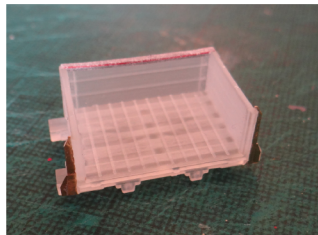
To ensure a good fit of the brass parts against the 3D printed body a small amount of brass has to be filed away from the lower portion of the part as indicated in the photo. File a small amount at a time until a good fit is achieved. The part shown is for the right hand end of the wagon when viewed from the open side.

4



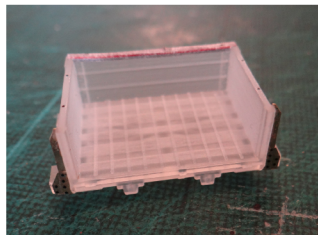
Once you have checked for a good fit the two brass parts should be glued to the side of the wagon using superglue. Make sure to fit them to the correct side of the wagon using the image in this photograph as a guide.

5



The protective metal strapping can now be added to the top of the side wall. Simply fold the paper template along the red lines to form a U shaped channel. Glue this to the top of the side wall with the shorter side on the inside.

6



At this point the model is structurally complete and could be painted. I added rivets to the brass parts using Archer transfers (from sheet AR88025) to add extra detail to the model.



This model is based on the breaker wagons used at the Trevor Quarry on the Llyn Peninsula in North Wales.

These wagons were used to move the quarried granite to the mill for crushing. Larger pieces would be loaded first across the open side with smaller pieces stacked on top against the fixed side wall.

While the model is predominately 3D printed you will need the following tools and materials to add the final details to complete the model.

- ☐ steel ruler
- ☐ modelling knife
- ☐ glue stick
- ☐ 0.12mm brass sheet
- ☐ tin snips or strong scissors
- ☐ Hold-and-Fold or similar
- ☐ Superglue

