



# **HO SCALE TWO TRACK OVERHEAD STRUCTURE**

## **Assembly Instructions**

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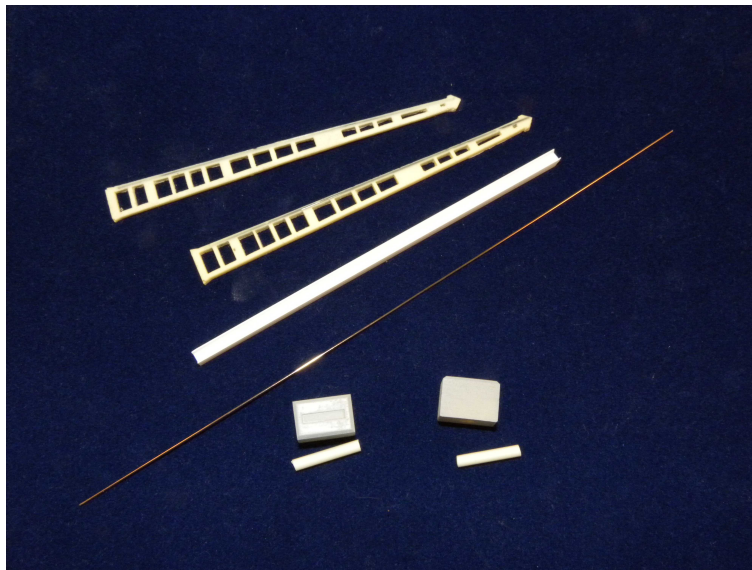
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## Introduction

Thank you for purchasing the HO scale Two Track Overhead Structure kit/s. This kit is based on drawings in "Electrification Of Sydney And Suburban Railways" being a paper presented before The Institution of Engineers Australia in 1926 and many photographs taken during the 80's. Please read the instructions all the way through before attempting to assemble it. Following the steps is important to make the parts fit properly and make painting easier. Feel free to enhance the kit or build it in another way that suits you.

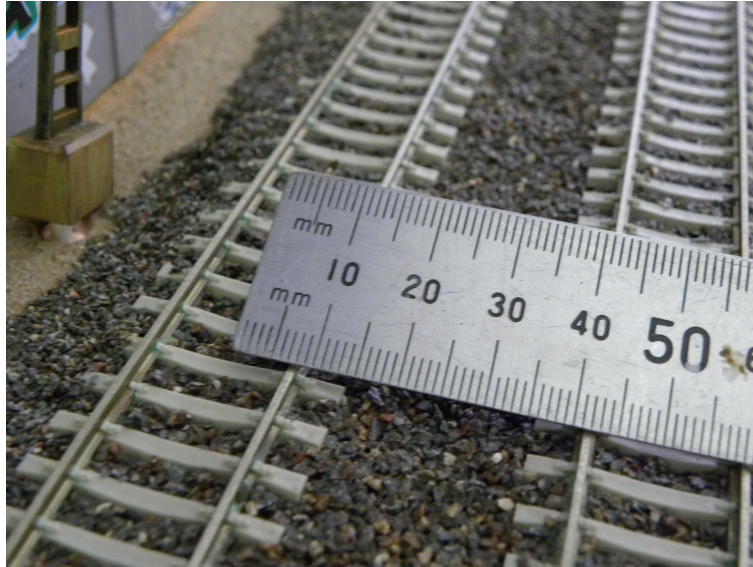
Once you have read the instructions it is best to start with removing flash from the resin cast parts. The resin parts should then be washed with sugar soap and a brush (like a toothbrush) to remove any mould release agent from them. Care is taken to make the castings but resin parts may have some surface air bubbles and they may be filled with Tamiya Putty and/or Selleys No More Gaps, both pictured later in these instructions. Another consideration with resin casting is sanding resin parts may open up sub surface bubbles.

Enclosed should be the parts to this kit as shown in the picture below.



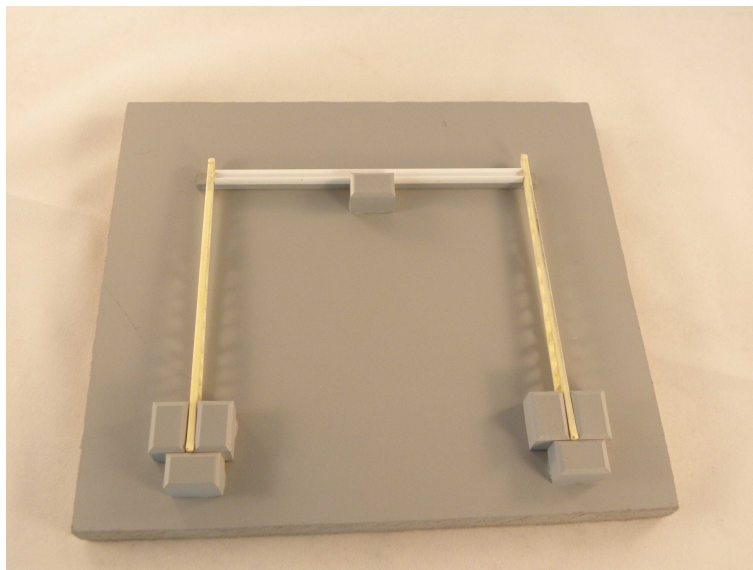
**Kit Parts**

Before doing any assembly work, there is a measurement you need to get from your model train layout. This dimension is to be used for the vertical wires in the overhead assembly



### **Distance Between Track Centre Lines**

More than likely you will be making a few of these kits for your layout. I have made a jig to hold the kit pieces together for gluing. Pictured below is the jig. It holds the stanchions and I-beam in place so they can be glued together.



### **Assembly Jig**

## **Kit Assembly Tips**

This section of the instructions discusses assembling the kit. I used Super Glue with the Zap Kicker to glue parts together. The Zip Kicker is applied once the parts are in their final



position. The Zap Kicker speeds up the setting of Super Glue and makes the Super Glue flow into the joint to look like a fillet weld.



**Super Glue and Zap Kicker**

Resin cast parts can have air bubbles in them. Sanding resin parts can expose even more air bubbles. I use two products to fill in air bubbles, Selleys No More Gaps and Tamiya Putty.



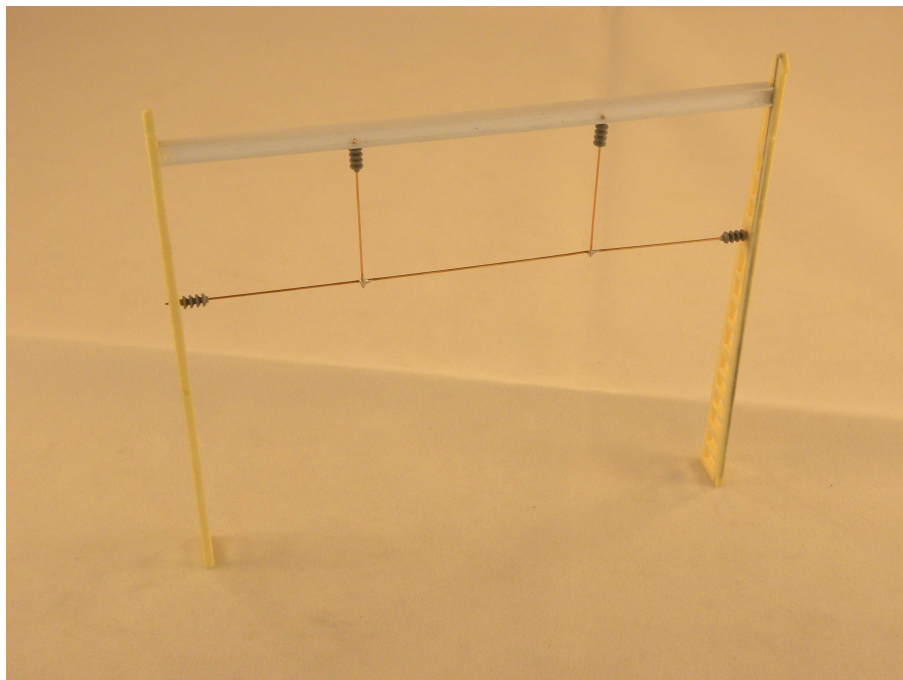
**Selleys No More Gaps**



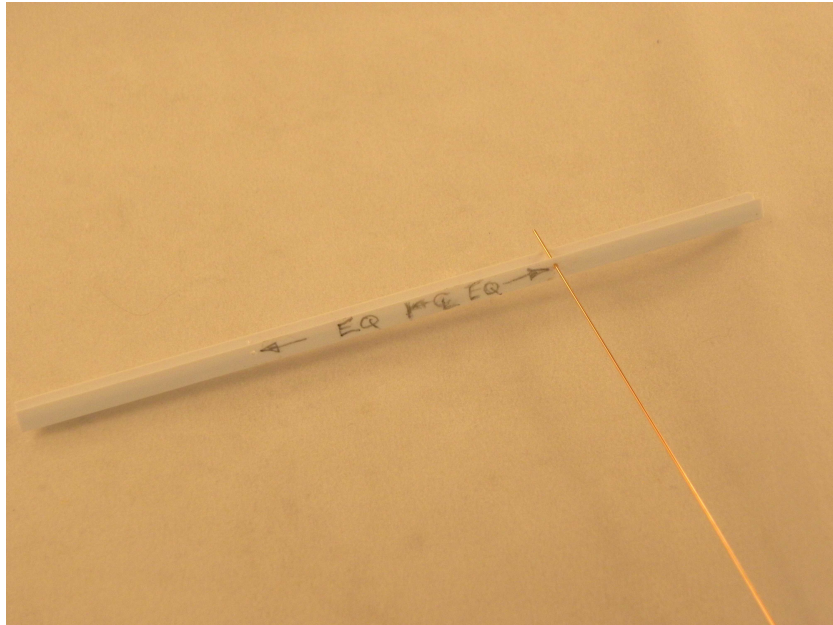
## Tamiya Putty

### Part Preparation for Overhead Structure Assembly

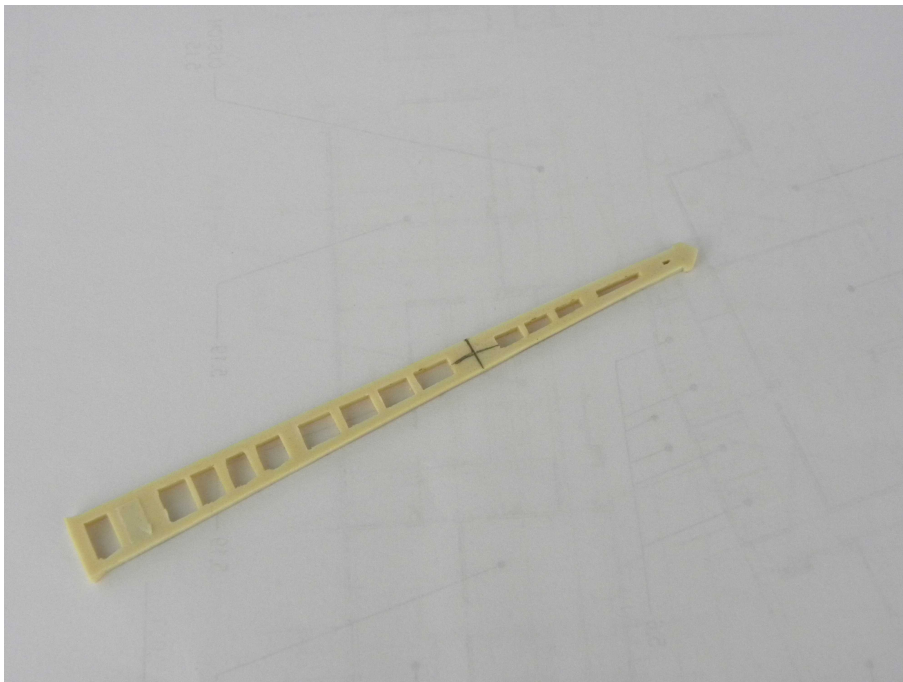
Some preparation work has to be done before assembling the parts in the. Holes will have to be drilled in the stanchions and the I-beam for attaching the wire included in this kit.



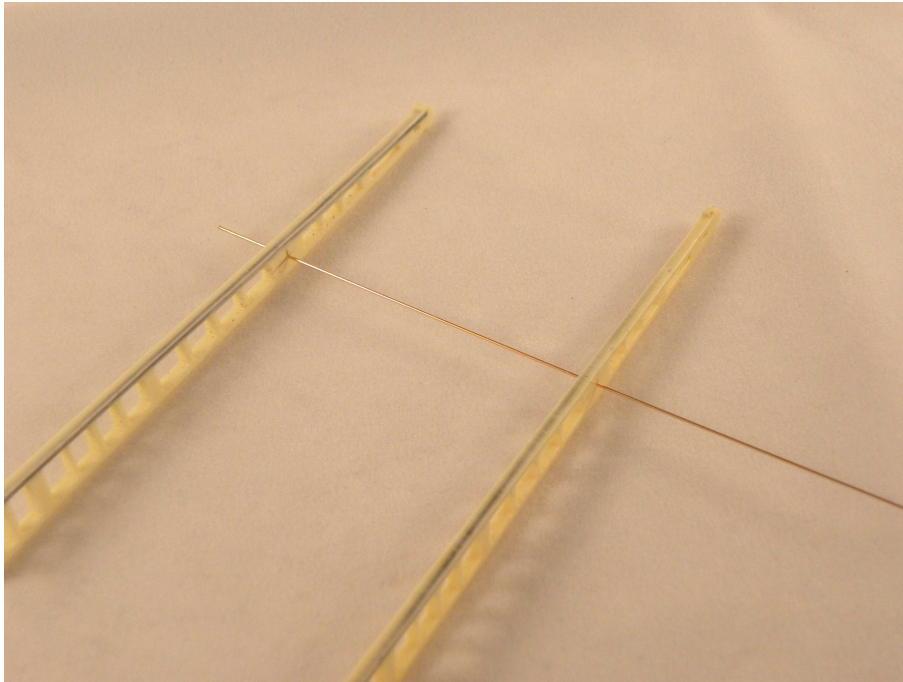
The distance between the holes in the I-beam holes are to be the same distance between the centre lines of your track. I marked the centre of the I-beam and measured half the track centre line distance to mark the location of the holes. You will see I have drilled the holes on one side of the I-beam web. Drill the holes and test fit the wire.



Each stanchion needs a hole drilled in it to hold the horizontal wire. This hole is to be in the centre of a solid rectangular area in the stanchion.



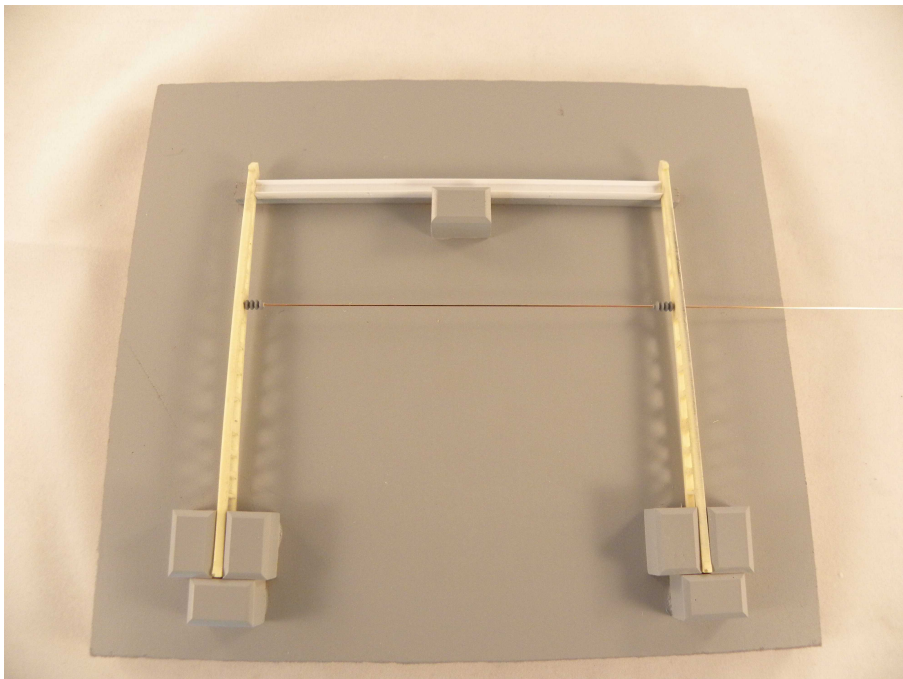




Drill the hole in both stanchions and test fit the wire. Fill any holes or defects in the stanchions.

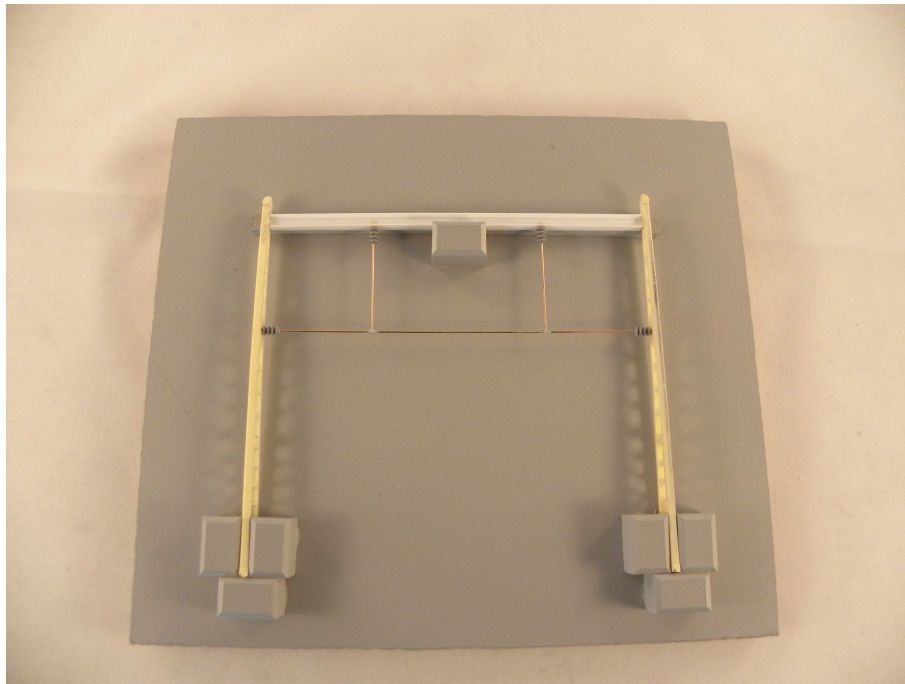
## Overhead Structure Assembly

The I-beam and the stanchions can now be glued together. The horizontal wire and its insulators can be glued in place.





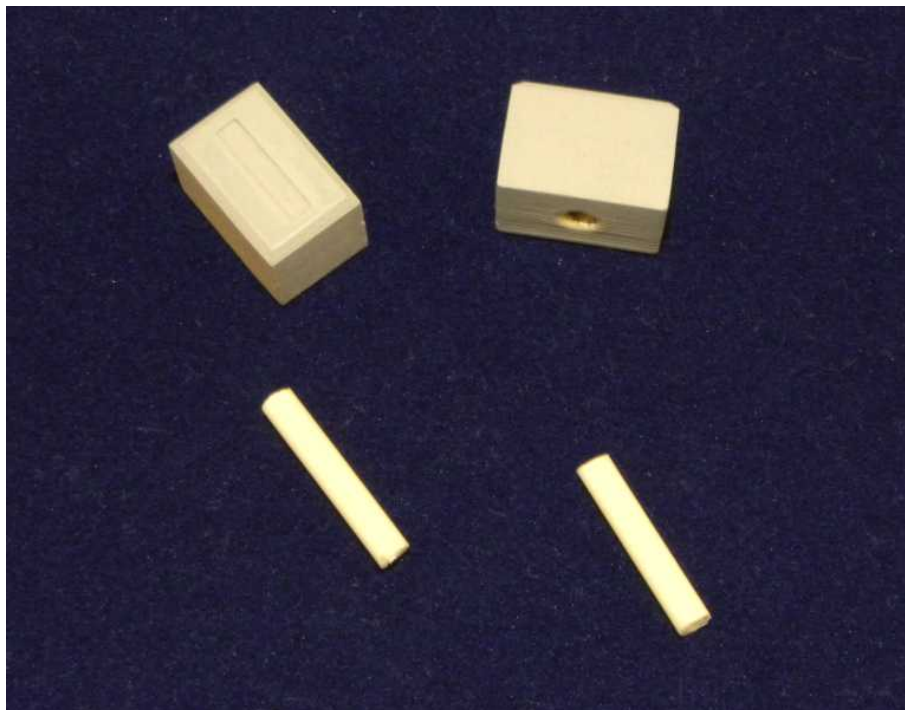
The vertical wires and insulators may be glued in place before soldering the wires together.



The overlapping wire can be carefully cut and sanded back.

### Plinth Assembly

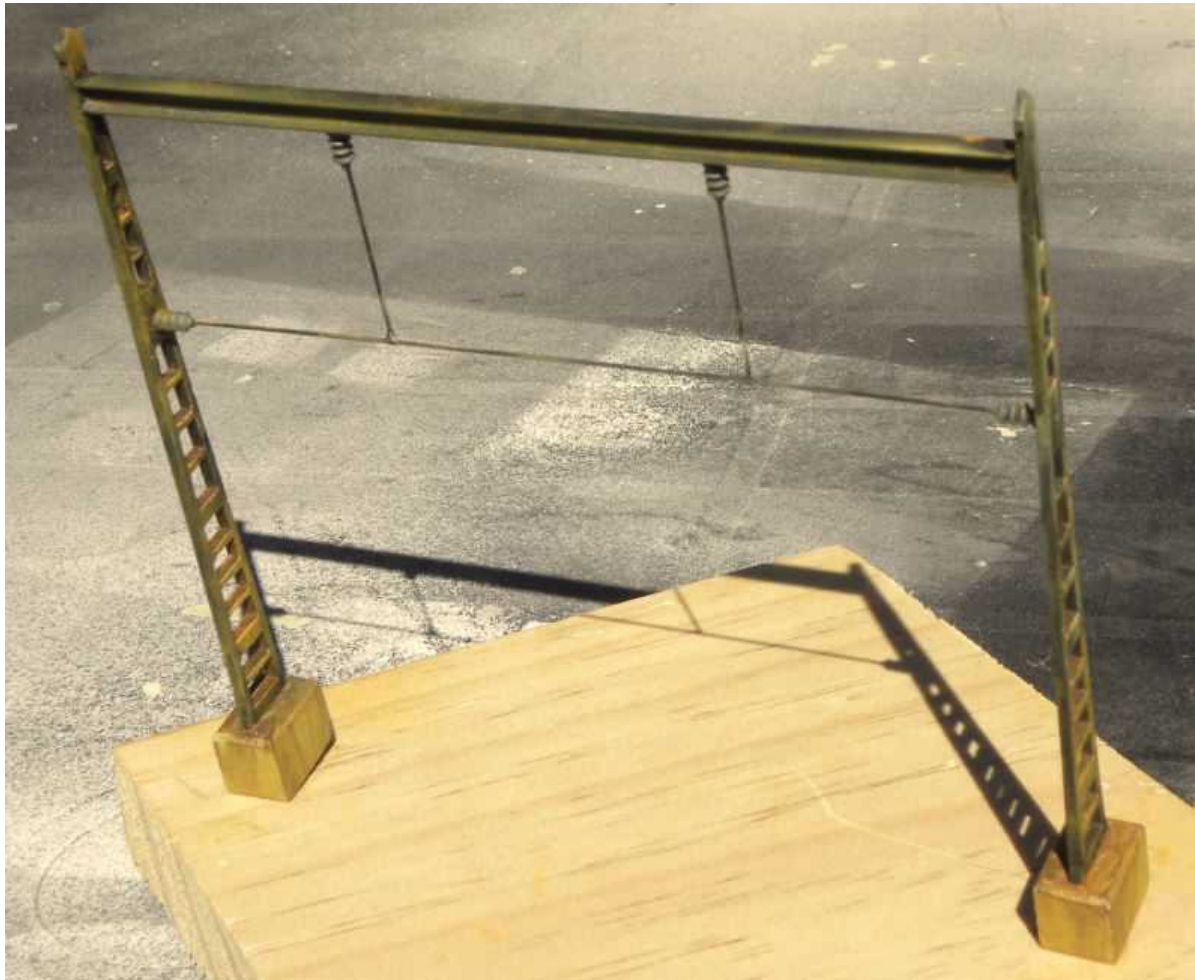
There are two pieces to the plinth assembly, a locating pin and the plinth casting. A hole is provided on the bottom of the casting to glue the locating pin to the plinth casting.



## Painting

I painted the assembled Overhead Structure with Matt Black. Once dried, I painted the Insulators by hand with a Medium Grey. The Plinths were painted with Tamiya Grey Primer.

I then glued the completed Overhead Structure to the plinths. The Plinths have a slight depression in the top to locate the completed Overhead Structure. I then glued the locating pins in the bottom of the plinths and weathered the completed model.



### **The Weathered Model**

I hope you have enjoyed putting this model together. Thank you again for purchasing it.