

Website <http://www.acmesteam.co.uk>

Email [sales@acmesteam.co.uk](mailto:sales@acmesteam.co.uk)

## **Assembly instructions for SAR,"B", class wagon kit by ACME**

Thank-you for buying this kit, which has been designed and made for the discerning modeller to build into a beautiful model of this wagon which currently runs on the WHR.

This kit requires some experience of building rolling stock and if anybody has any suggestions or comments on either the kit or instructions I would be very glad to hear from them

We have produced this kit from 3mm MDF using a CNC laser-cutting machine.

The parts have been bagged to aid assembly and are:

Pack 1: Floor, two body sides and two under frame sides.

Bag 2: Two ends and horizontal stiffeners.

Bag 3: Two outer side doors, two buffer beams, two under frame spacers and four triangular corner braces.

Bag 4: Two inner door sides, two inner door sides and two inner door tops.

The extra parts we used on our prototype are:

### **Plastic mouldings:**

Evergreen 264 plastic channel 1/8"

Evergreen 294 plastic channel 1/8"

### **Bogies:**

Supplied by Ian Folland On email [ianfolland@me.com](mailto:ianfolland@me.com)

### **Wheels:**

32mm gauge 25mm diameter from Accucraft. I shortened the axles to fit the bogies

### **Air tank, brackets and handles:**

Made from K&S brass tubing, scrap brass strip and wire

### **Brake hand wheels and brake pipes:**

From Brandbright: Although the hand wheels do not have the scalloped edges they are the nearest available at present.

### **Couplings:**

Chopper couplings from Accucraft

### **Miscellaneous:**

Steel wire

**Adhesive and paints:**

PVA wood glue,(I use Titebond 2). Super glue to affix plastic parts. Sanding sealer, Holts red primer aerosol, Humbrol yellow paint for detail. I'm currently experimenting with printing lettering on to OHP film using a stencil font. My plan is to cut out the lettering to leave a usable stencil behind.

The following is a good source of prototype material.

<http://www.whrsoc.org.uk/WHRProject/wagons.htm>

**Assembly of under frame:****Step 1:**

Take the under frame sides, the two buffer beams, two under frame spacers and four corner triangular braces. These will form the under frame. The full size wagon is made from rolled sheet steel and has a distinctive join between the upper structure and chassis. I recommend sanding a heavy radius to simulate this.

Using a flat surface and a square glue one buffer beam to one side. The buffer beam fits between the sides. It's best to assemble them upside down. Repeat this for the other side and when dry glue both together to form the under frame. Glue in the two spacers and leave to dry.

**Step 2:**

Glue the floor to the under frame ensuring that an even gap exists all around. Glue the four triangular corner braces in place underneath the floor. Leave to dry.

**Step 3:**

Glue the sides and ends to the under frame butting up against the floor, ensuring that all is square. Glue two horizontal stiffeners on each end, (The ends are marked to show where.)

**Step 4:**

Glue the outer doors in place in the middle of the body. The sides are marked to show where. Make up and glue in place the inner door for each side. Each inner door assembly comprises the door, top and two triangular side pieces,(These are glued to the inner sides of the body on their hypotenuse, that's the side opposite the right angle.)

This completes the assembly of the wooden parts. I used the plastic channel along the top edges of the body and the plastic angle in the vertical positions. Again the body is marked to show where to fit these. The rest is up to you. Add as much or as little detail as you want. Just remember that from six feet away much detail is not seen and if you spend hours super detailing every wagon then it will take you longer to finish the whole train.

Thanks

Mike Ousby



