

## Tales from Barlow Works

### **Project Gresley**

#### **Part one – Items required**

In this, the second club project by the Sheffield O Gauge group, we shall be assembling one of the popular and reasonably priced Ian Kirk coach kits. Even though the kits make up into very good models I am sure that even Mr Kirk will admit that the instructions are a little sparse. The idea of this project is partly to remedy that problem and also to bring the club members together in another common project.

#### **Tools:-**

This is a list of some of the tools that I have used in assembling my own coaches, if I think of others along the way I will add them to the instructions as we go.

Scalpel.....the Swan Morton type with the brass handle that takes individual blades plus a supply of blades, the long pointed ones with a straight cutting edge.

Craft knife.....the large one with the retractable blade available from most DIY outlets.

Steel straight edge...at least 12”.

Vernier callipers.....for accurate marking out, not essential but once bought you will wonder how you ever managed without them.

Metal Square.....4” or 6” should be fine.

Pin vice.....for holding small drills or a pin for marking out. You don't want to drill plastic with a mini-drill.

Brush.....for applying the solvent we will use to assemble the kit. I use a brush called a Script Liner or Rigger which has bristles about ½” long, it holds plenty of solvent but does not release it all in one go. Any good quality medium sized brush will do.

Drills.....various sizes. I will mention the drill sizes at the relevant part of the instructions.

Soldering iron.....yes I know it's a plastic kit but you will need it later on, believe me.

Files.....various sizes, for shaping and finishing to size.

Pencil.....normal HB for marking out should be ok, keep it very sharp.

Scriber.....or pin in a pin vice, for permanent marking out on plastic sheet etc.

#### **Materials:-**

This is a list of other materials that you will need to complete the kits.

Plastic sheet .....20, .30 .40 .60 thou in black and white plus clear sheet for glazing.

Plastic strip.....40thou by 2mm from Evergreen, Slaters

Microrod.....various sizes (usually available in one packet from Slaters).

8 BA bolts.....about 30mm long, 2 required.

8 BA nuts.....4 required.

M6 nuts and bolts.....for bogie pivots, available in packets from most DIY outlets, round about 25mm long.

MEK or suitable solvent.

Superglue.....thick type is better as it allows about 10 seconds to position before it sets.

Double sided sticky tape.

Solder.....I use 145 degree solder but only its handy, any will do.

Flux.....liquid flux is preferable but again, any will do.

Brass tube.....both square and round will be required eventually.

Brass rod.....0.7mm for handrails.

Lead.....either sheet or liquid lead, for ballast as the finished coaches are very light.

### **Hardware:-**

This is a list of other things that are needed to complete the kits.

Ian Kirk kit.....prototype as required.

Wheels.....3'7" plain disk coach wheels.

Buffers.....Clip top or oval or round as per prototype.

Couplings.....screw couplings or again as per prototype. I will eventually show you how to make a rigid coupling for between coaches that looks like the piping on the real thing.

Roof vents

Door handles.....the door handles are moulded on but if you want to replace them these will be required.

Next we will assemble the sides.