### **PO240/241 VIADUCT**

SHEET

To construct this kit you will need the following:

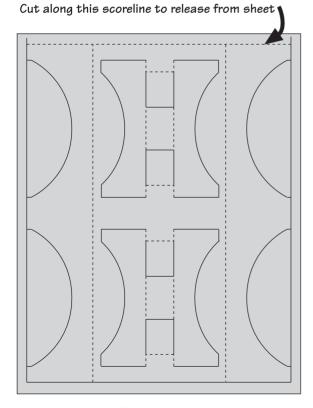
- A Modellers knife.
- 2. A pair of sharp pointed scissors.
- 3. A steel ruler.
- 4. Glue UHU Clear Adhesive or Bostik Clear Adhesive are best. Make sure you get the tubes with the narrow nozzle for easy application.
- 5. A cutting surface a sheet of card or a cutting mat.
- 6. Tweezers to hold the smaller components

#### **READ THROUGH ALL THE INSTRUCTIONS BEFORE YOU** START. This is complex kit that requires particular attention to fine details.

Each component is fastened to the sheet by means of a score line. These are cut lines that have only gone about three quarters of the way through the card.

To detach each component from the sheet, locate the score line that is holding it in place (these are clearly marked with blue arrows) and carefully run the point of your knife along the scoreline and the item will come seamlessly away. CAUTION - be very careful when running the point of your knife along these score lines. It is easy to run out of the groove and cut something you shouldn't.

#### GREY CARD SHEET 'A'



#### Your Work Surface

to one side.

A clean

area



Keep it tidy. When you have extracted components from the sheet, place them neatly to one side, FACE UP so you don't loose them. TAKE CARE WITH EXTRA SMALL COMPONENTS PLACE MULTIPLES IN PILES TOGETHER. DON'T THROW ANYTHING OUT. Offcuts can come in handy for bracing etc. and it also reduces the risk of accidentally throwing anything away.

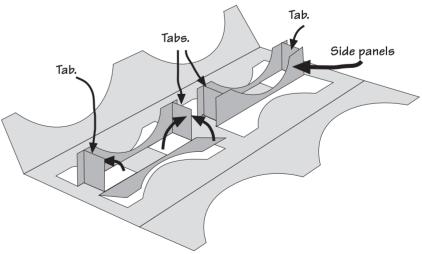
#### NOTE: If you are using UHU clear 20ml tubes, you will need two of them to build this kit.

### CHECK LIST This kit pack should contain the following:

- 4 x SHEET A Side walls and arched sections.
- 4 x SHEET B End walls and shorter side walls.
- 1x SHEET C Trackbed strips and wing walls
- 1 x SHEET D Viaduct arch roofs.
- 1 x SHEET E Viaduct arch roofs + Spare brick/stone.
- 2 x GREY Sheet 'A' with main viaduct strengthener.
- 2 x GREY Sheets 'B' with various strengtheners.
- 1 x A3 INSTRUCTION SHEET 1 (this sheet).
- 1 x A4 INSTRUCTION SHEET 2.

# Fig. 1. MAIN VIADUCT STRENGTHENER.

There are two identical mainframe strengtheners that fold and glue to form a rigid inner chassis to hold the whole structure together.



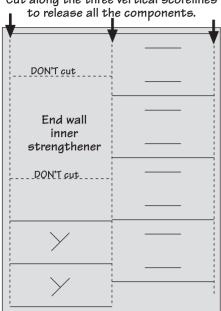
Start with the inner arch formers.

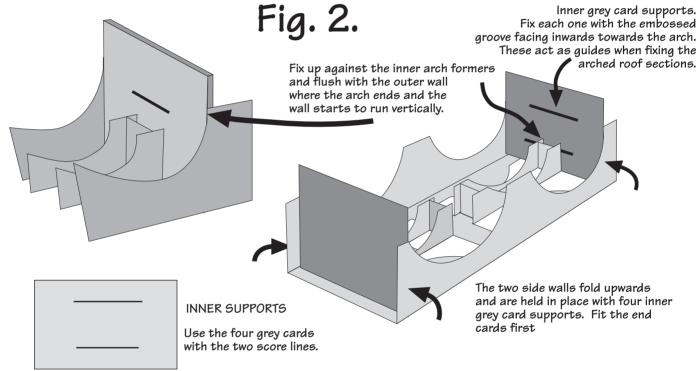
The four tabs and four side panels all fold up at rightangles to the base (top when its turned over later on). Put spots of glue on the edges of the tabs and fix the side walls to them, hold until fast.

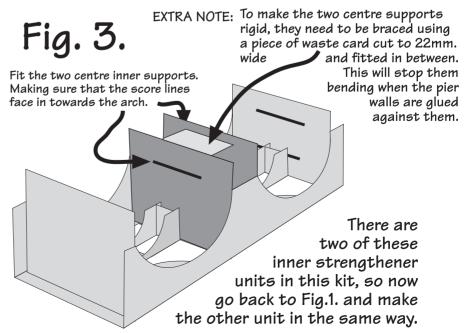
Don't throw the offcuts away these will come in handy later.

#### GREY CARD SHEET 'B'

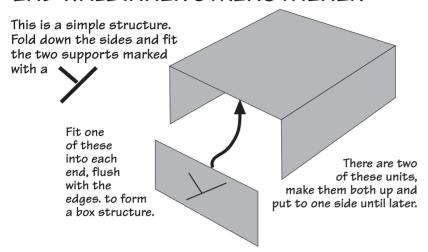
Cut along the three vertical scorelines







# Fig. 4. END WALL INNER STRENGTHENER



## Fig. 5. BRICK ARCHED ROOF SECTIONS.

This looks as though it could be difficult, but it's not - BUT BE CAREFUL. Cut along the dotted lines to release each brick arch from the sheet. Next, fold back all the little grey tabs at each side

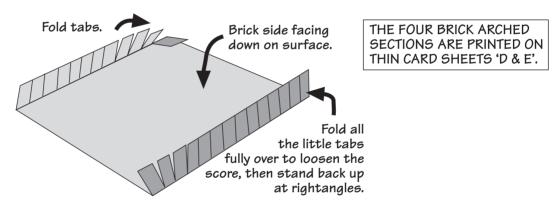
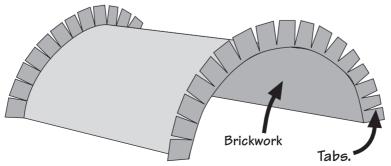
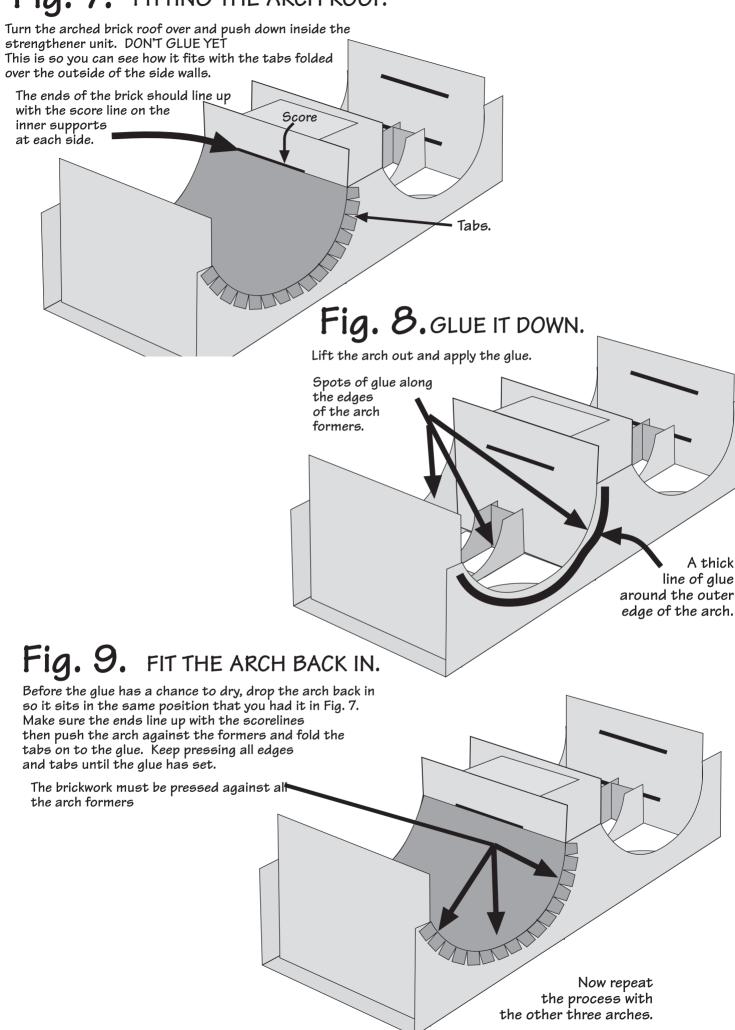


Fig. 6. Curve the card into an arch, and you will see how the grey tabs fan out and stand up at rightangles.

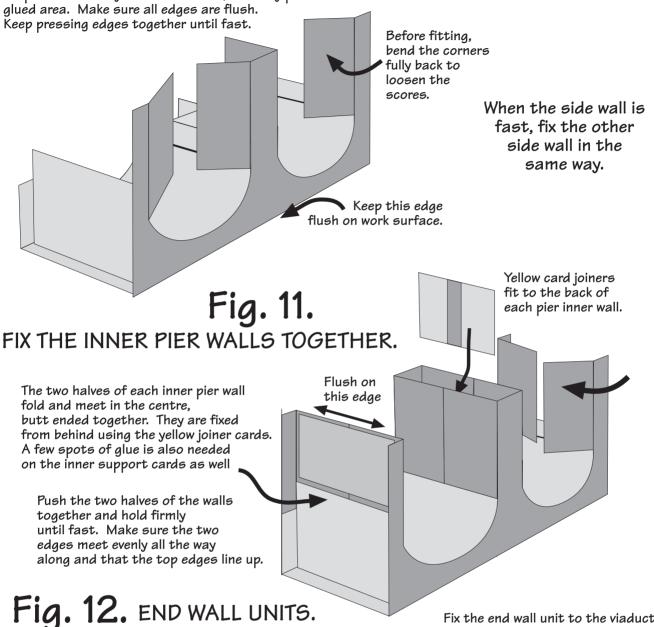


# Fig. 7. FITTING THE ARCH ROOF.



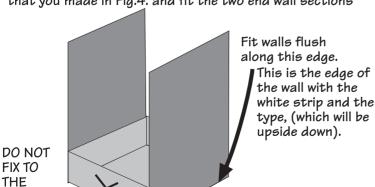
## Fig. 10. FITTING THE VIADUCT SIDE WALLS.

Each side wall also contains the piers, and a half width of the inner pier walls. With plenty of glue covering the side wall of the inner strengthener and placing it upside down on your work surface, carefully press the side wall on to the



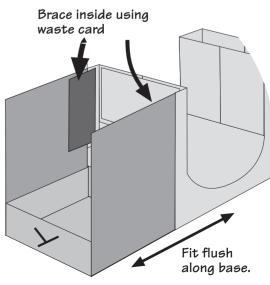
The end wall units are the walled bits that fit on each end of the viaduct and run in to the embankments.

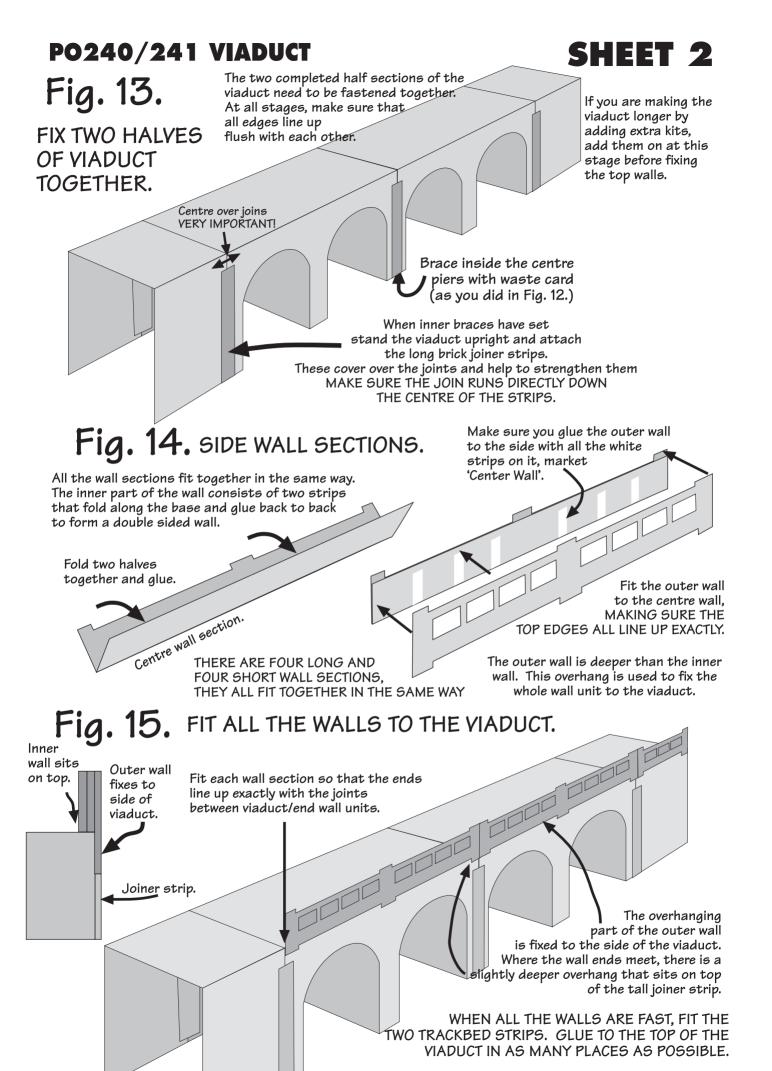
Take the end wall inner strengthener section that you made in Fig.4. and fit the two end wall sections



Y'SIDES

Fix the end wall unit to the viaduct.





## Fig. 16. WALL FASCIA PIECES.

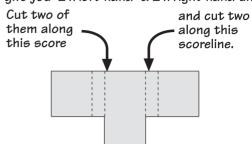
These are used to strap the walls together where they meet.

Inner brick fascia fits over the join where the wall ends meet on the inner side of the wall. Fit flush to top edge and centred sideways.

> The longer outer fascia fits flush to the top edge and centred sideways in the same way as the inner.

### Fig. 17. WALL END FASCIA.

This little unit is designed to fit either side of the wall ends, but they need trimming down to give you 2 x left hand & 2 x right hand units.



They then wrap around the wall ends.

Fit the longer part to the outer wall in the same position as the sinale fascia in fia.16.

### Fig. 18. WALL TOPS.

Long joiner

strip.

Fit the wall top stone strips so they overhang equally on both sides.

The cap stones fit on the raised brick sections and should overhang equally on all four edges.

Fit the small cap stones on top of the large stones before fitting to wall tops.

Fig. 19.

STONE STRIPS.

The long stone strips are to be used to edge

lengths and fit directly to the wall tops.

Wall top 'BASE' strips.

These are cut to correct

The shorter inner part folds

around and is fixed to the inside edge of the wall. line everything up to the top.

The end of the wall now

overhangs a bit and will need to

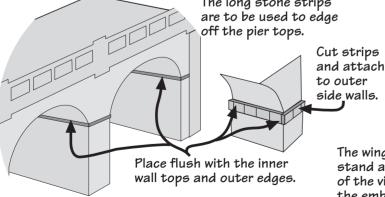
be built in to the embankment.

Wall top 'UPPER' stone strips fit on top of the base strips. These are optional - the wall tops look just as good without them.

Embankment

Buttress

# Fig. 20. WING WALLS.



#### CORNERS & EDGES.

If you want to hide the card that shows on the scored corners, you can paint them using a very fine brush and very much watered down paints. TEST ON WASTE CARD FIRST, it's easy to make a mess and ruin your kit. If you are not sure just leave them alone - it still looks fabulous!

The wing walls stand at each end of the viaduct to hold the embankments back.

Top off, with stone edging strips, and fit the buttress

to the end of the wall.

The buttress walls fold around and fix where the two half sections meet, using the yellow joiner fitted inside. The large and small capping stones fit on top.