LINKA BUILDING KIT

LINKA

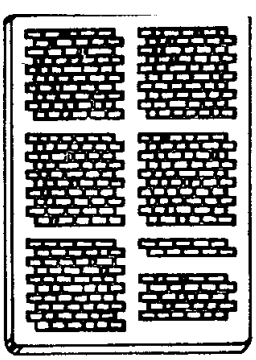
WATERMILL

Designer: Richard Young

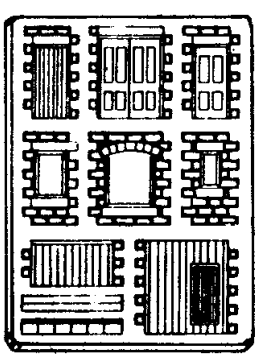
Before building this model, do become familiar with casting, gluing, and cutting parts, as shown in the 'Basic Instructions'.

PARTS NEEDED:

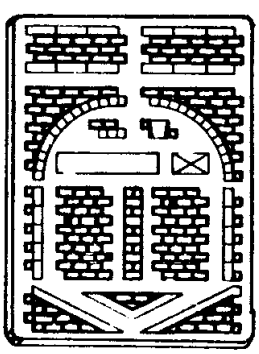
There are five moulds in this kit. Cast each mould as shown below:



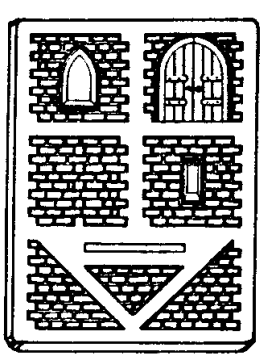
Cast S1 five times



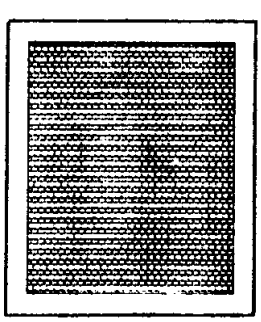
Cast S2 four times



Cast S3 three times



Cast S4 three times

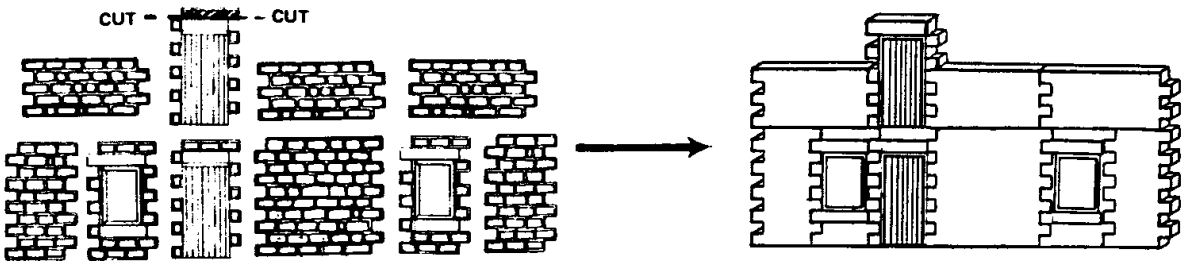


Cast PR3 three times

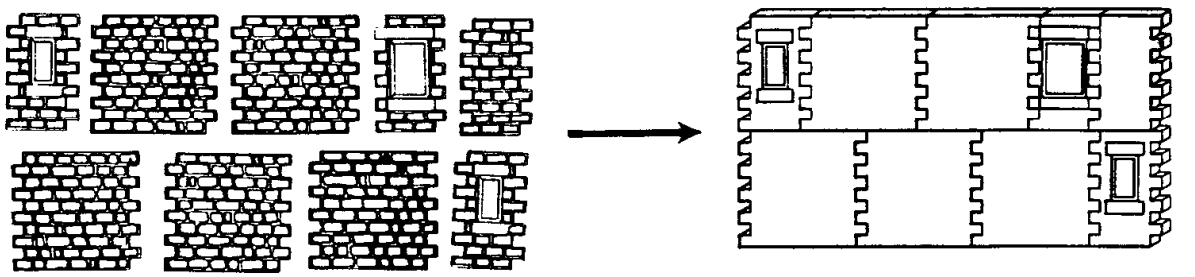
You will now have enough castings (plus extras) to make this model. The extras can be used to replace broken castings - or to help build your own design variations.

BUILDING THE MAIN MILL:

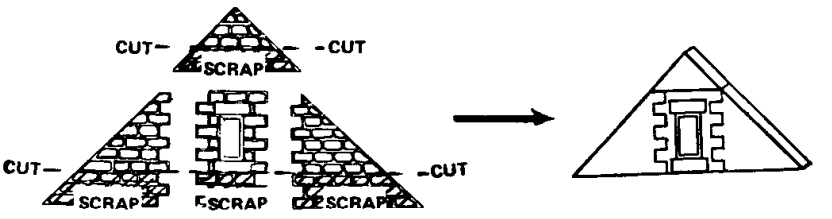
1) Using the castings shown below, glue the front wall together, cutting the casting above the top door as indicated. When the wall is complete, place face down onto a flat working surface, and press all the castings into good alignment before leaving to set. This final lining up of each wall is important, because poor alignment will show up on the finished model.



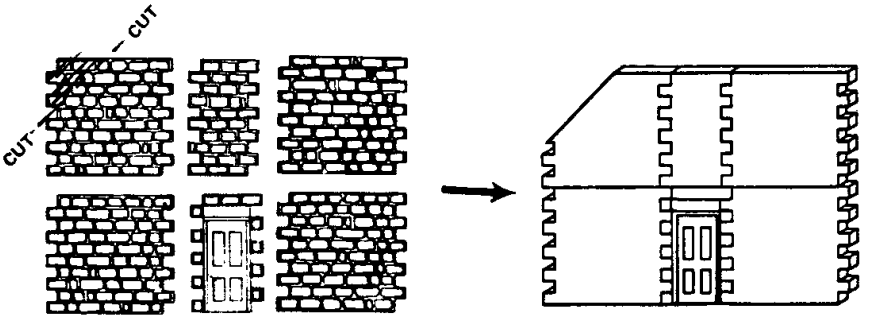
2) Using the castings shown below, glue the back wall together. Again, press all the castings into good alignment before leaving to set.



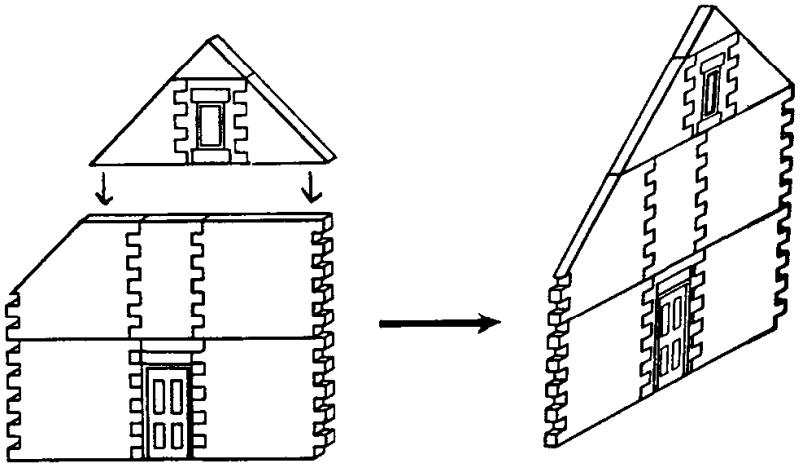
3) Glue the gable of the right-hand wall together, cutting as shown.



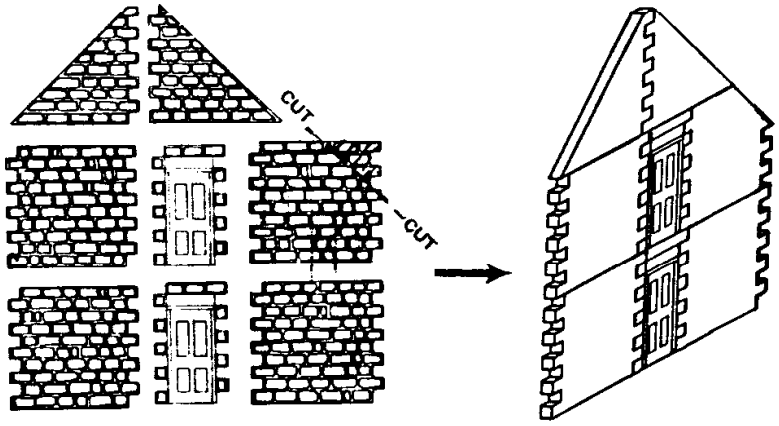
4) Glue the base of the right-hand wall together, cutting as shown.



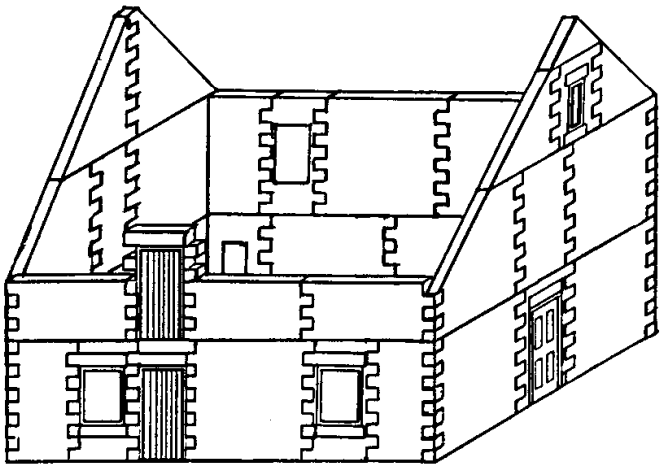
5) Glue the two parts of the right-hand wall together.



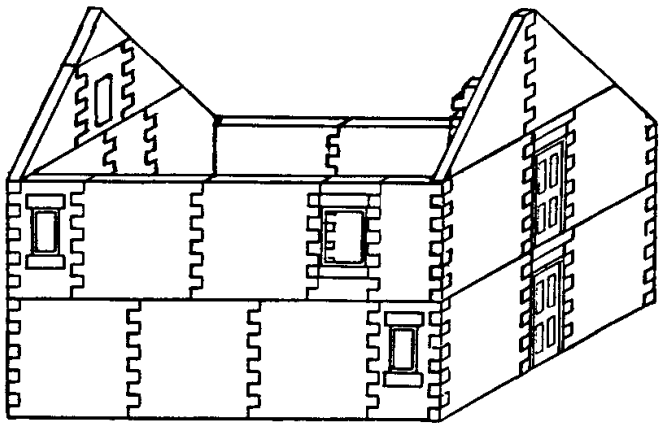
6) Glue the left-hand wall together, cutting as shown.



7) When all the walls have set, glue the main mill together, gently easing the teeth into position. Don't worry if some of the teeth break off while you are doing this - they can be glued back in place, and any fractures will disappear after painting.



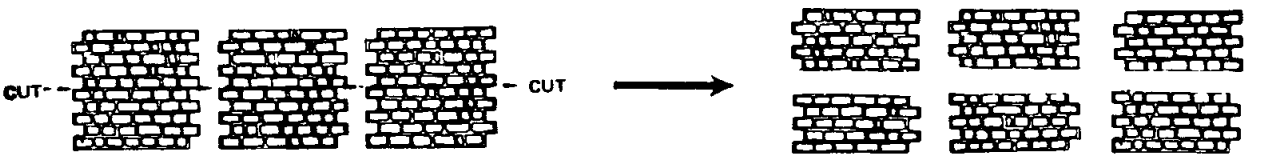
FRONT VIEW



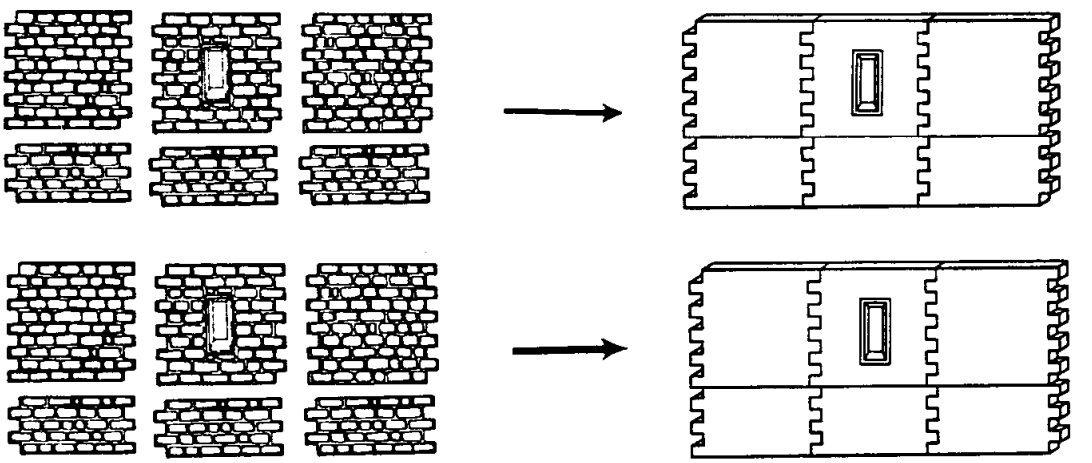
BACK VIEW

BUILDING THE DRYING KILN:

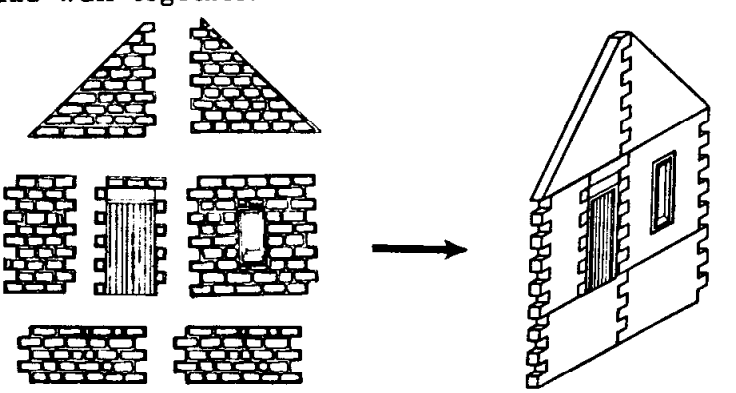
1) Extra half-panel castings will be needed to build the drying kiln. Make these half-panels by cutting three full panels in half. This will make six half-panels, as shown below.



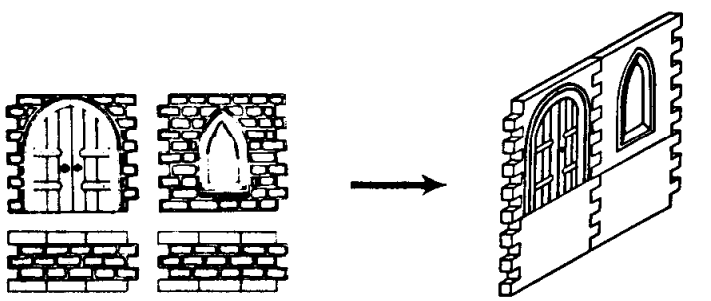
2) Glue the front and back walls together. These two walls are identical, as shown below.



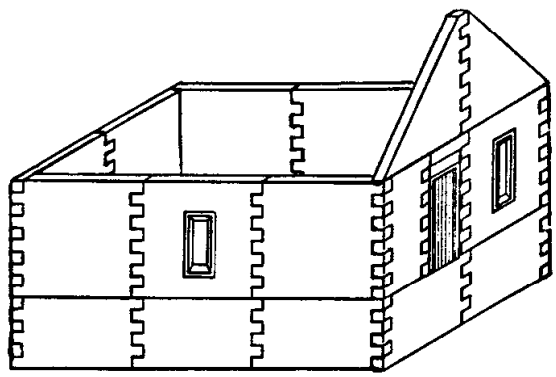
3) Glue the right-hand wall together.



4) Glue the left-hand wall together. Note that any spare or faulty castings can be used up here, as this wall will not be visible on the finished model.

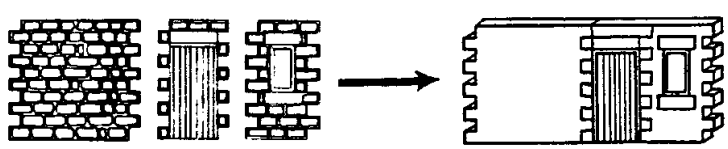


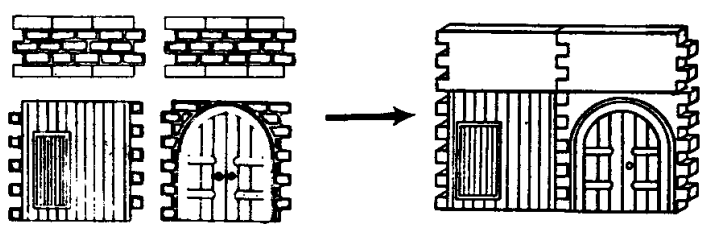
5) Glue the four walls together to form the drying kiln.



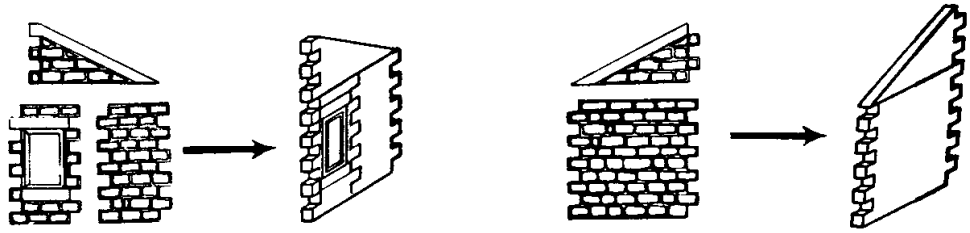
BUILDING THE LEAN-TO:

1) Glue the front and back walls together. Note that as the (taller) back wall will not be visible on the finished model, any spare or faulty castings can be used up on this wall.

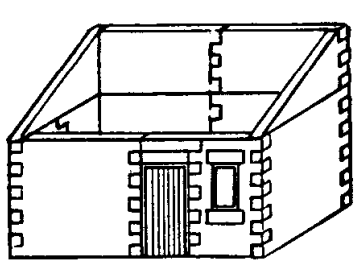




2) Glue the two side walls together.



3) Glue the four walls together to form the lean-to.



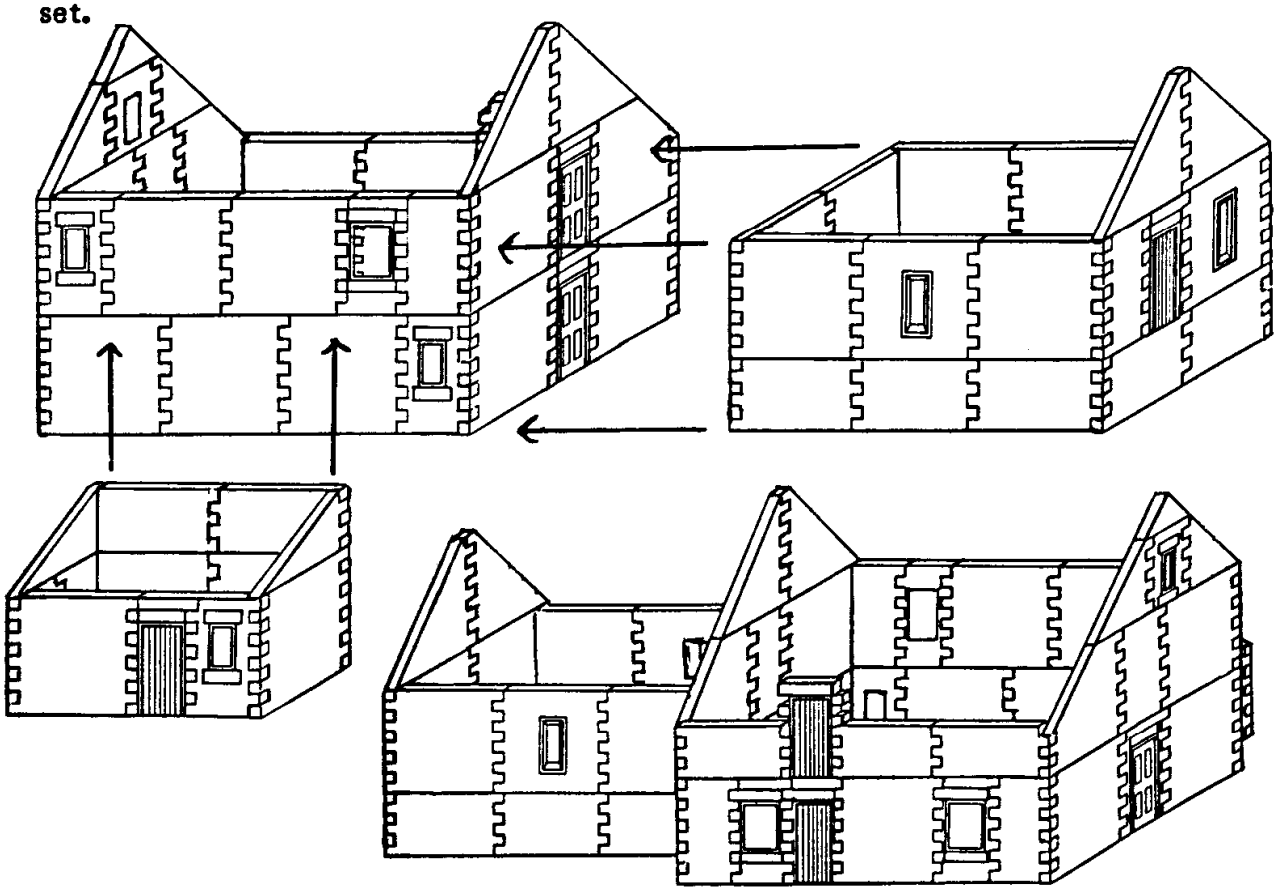
ASSEMBLING THE MILL:

Before gluing the three completed mill buildings together, consider where you wish to site the waterwheel on the completed model.

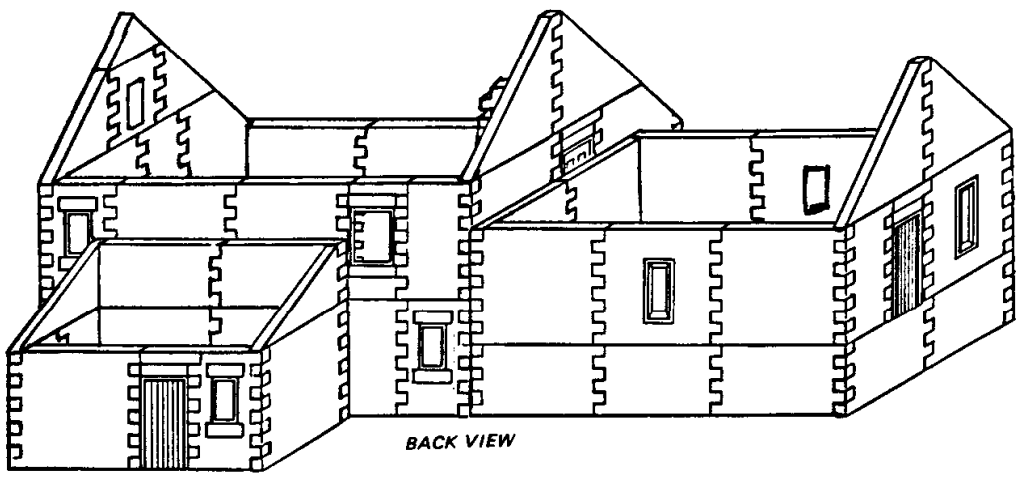
If you wish to site the wheel at the end of the building, follow exactly the assembly drawings below.

If you wish to site the wheel at the back of the building, glue the lean-to onto the end of the building instead of the back.

Glue all three buildings together in the chosen arrangement, and put aside to set.



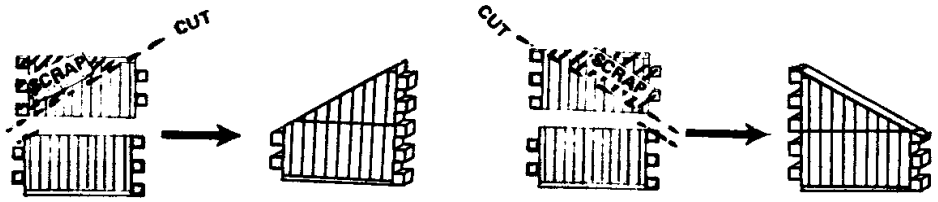
FRONT VIEW



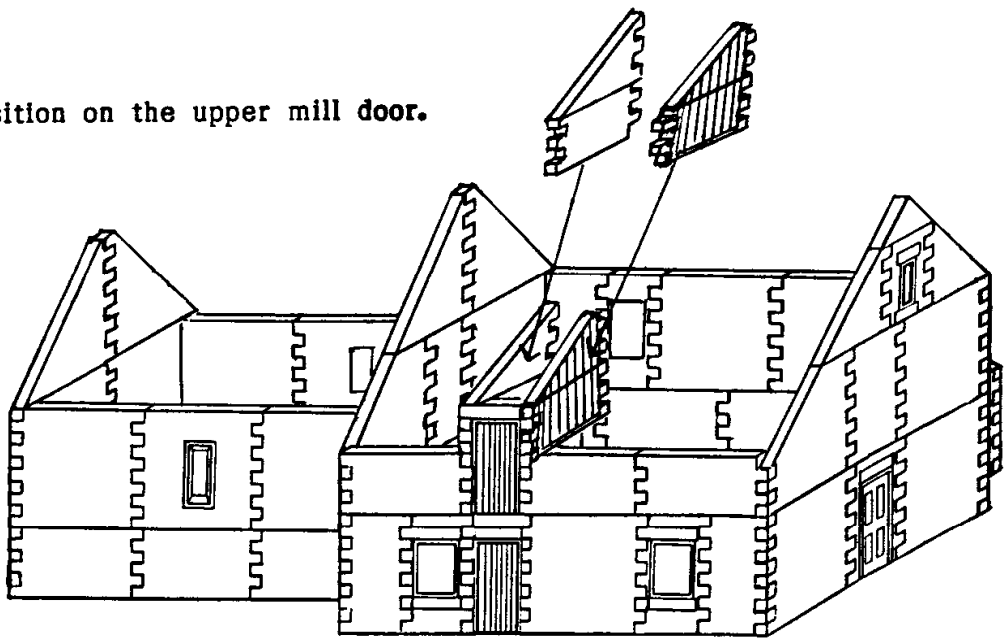
BACK VIEW

ADDING FITTINGS:

1) Glue together planking castings from mould S2, and cut to an angle as shown below.

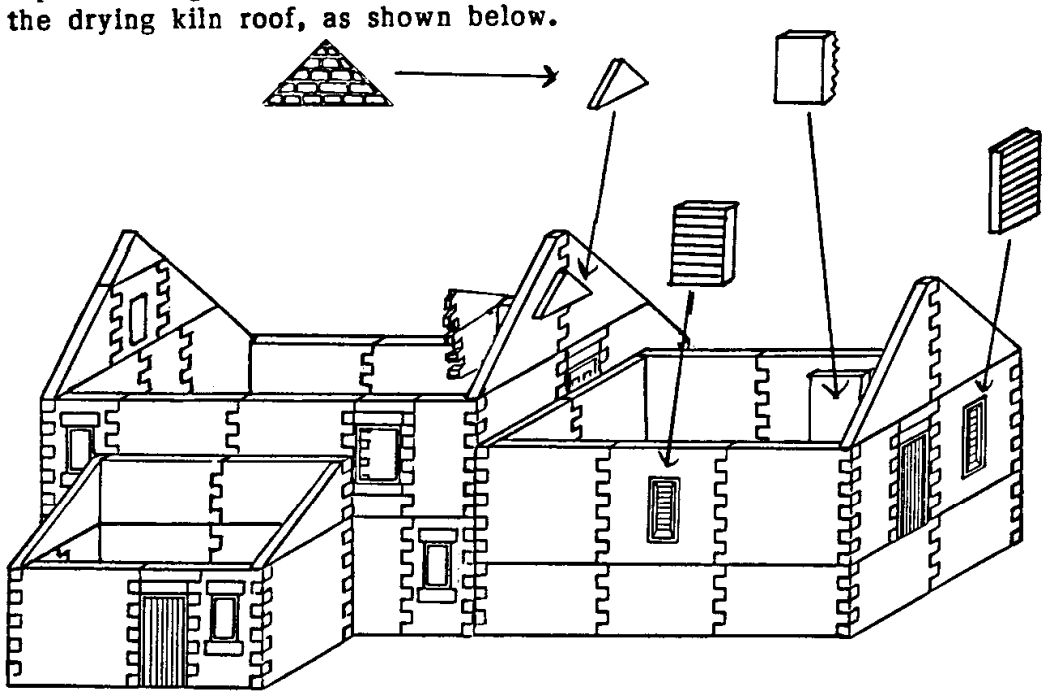


2) Glue into position on the upper mill door.



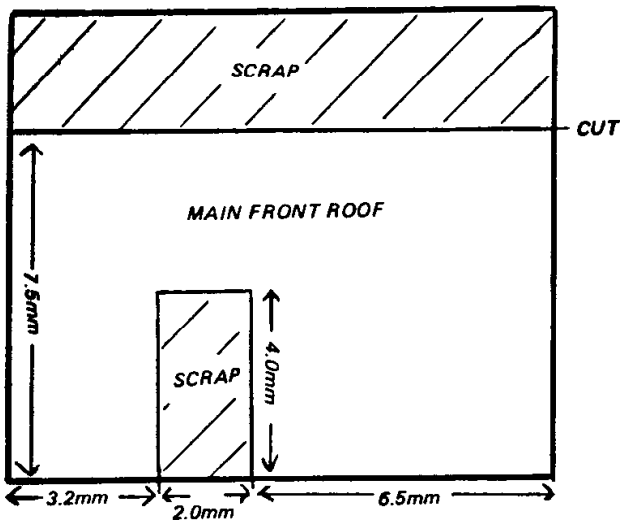
3) Glue the three supplied vent castings in place behind each drying kiln window, as shown below.

4) Glue an apex casting from mould S4 in position on the main mill wall, ready to support the drying kiln roof, as shown below.

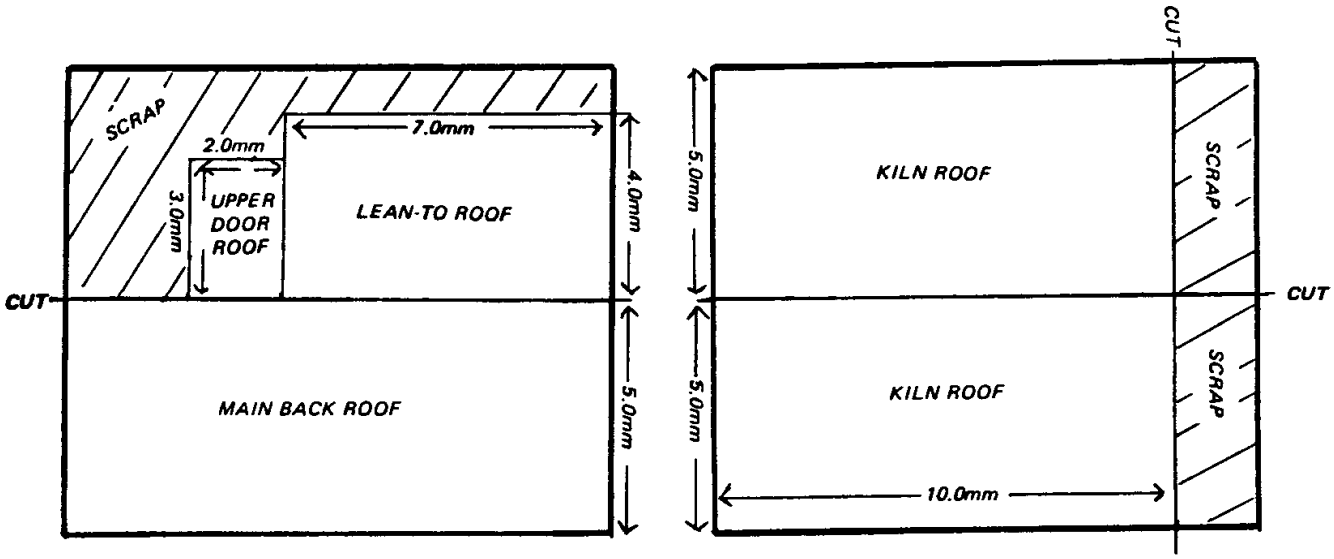


ADDING THE ROOF:

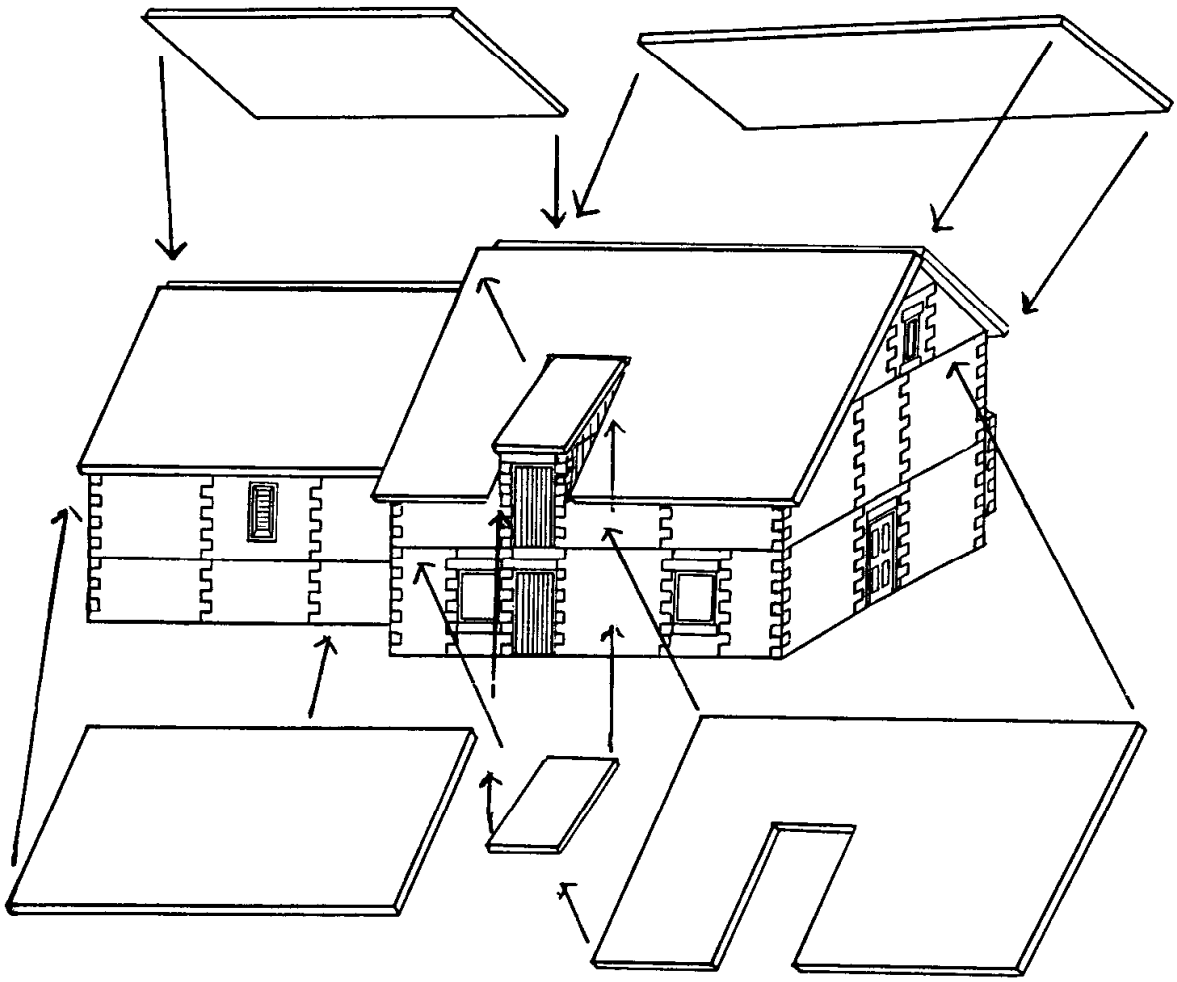
1) Cut the main front roof from a PR3 casting to the measurements shown below. Note the 2mm x 4mm hole to be cut for the upper mill door - score the cut many times before trying to extract this part. If the roof breaks while you are doing this, don't worry - when the roof is glued into place, the fracture can be glued at the same time. Any crack will become invisible once the roof has been painted.

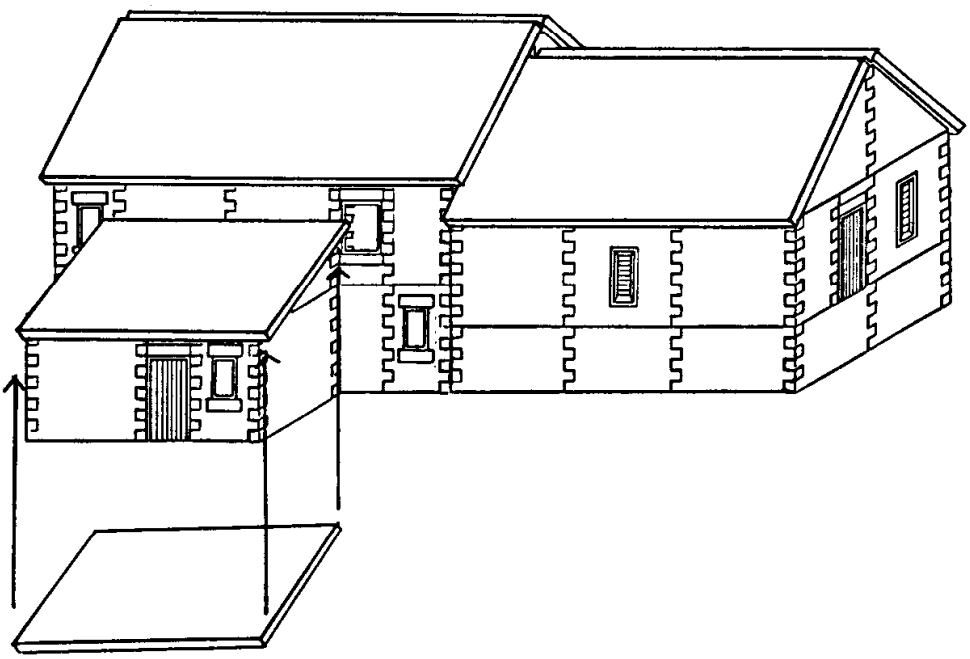


2) Cut the other five roof parts from two more PR3 castings to the measurements shown below. Sand any rough edges smooth.

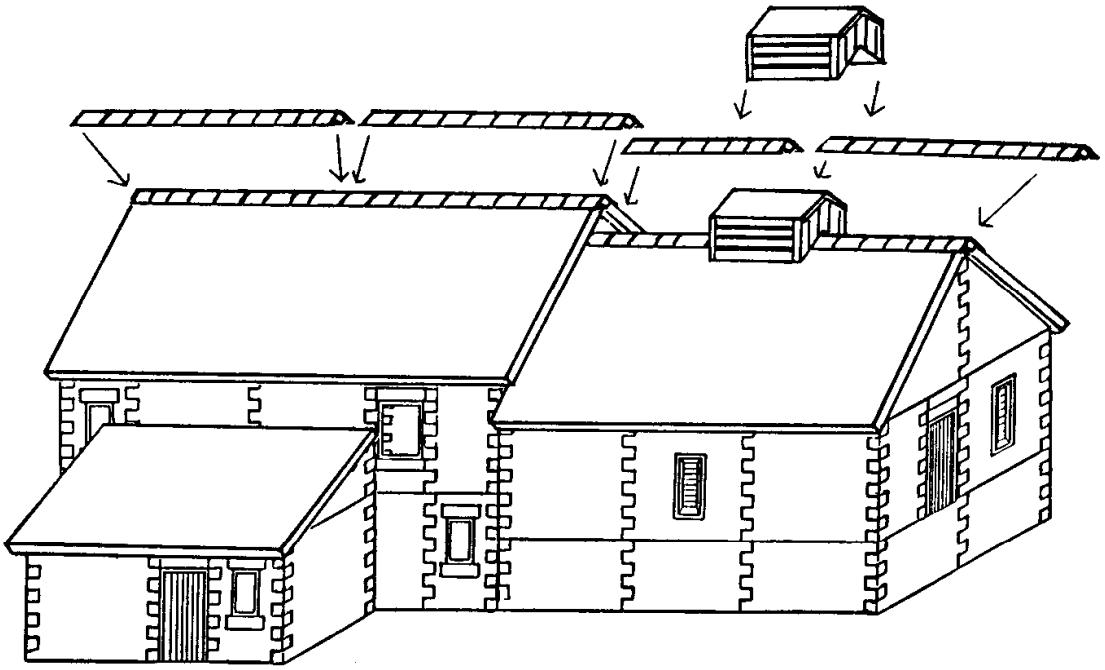


3) Glue the roof parts in place, as shown on the drawings below.

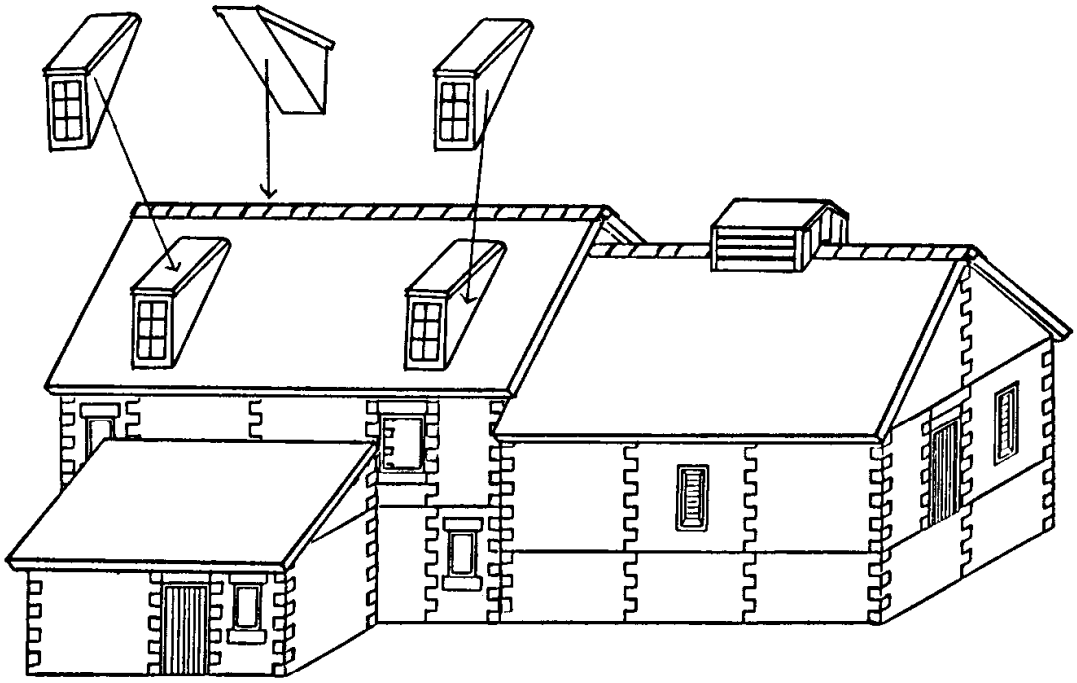




4) Glue the supplied lengths of ridge tiles in place as shown below, cutting as needed. Glue the drying kiln ventilator in place.



5) Glue the supplied dormer windows in place, as shown below.

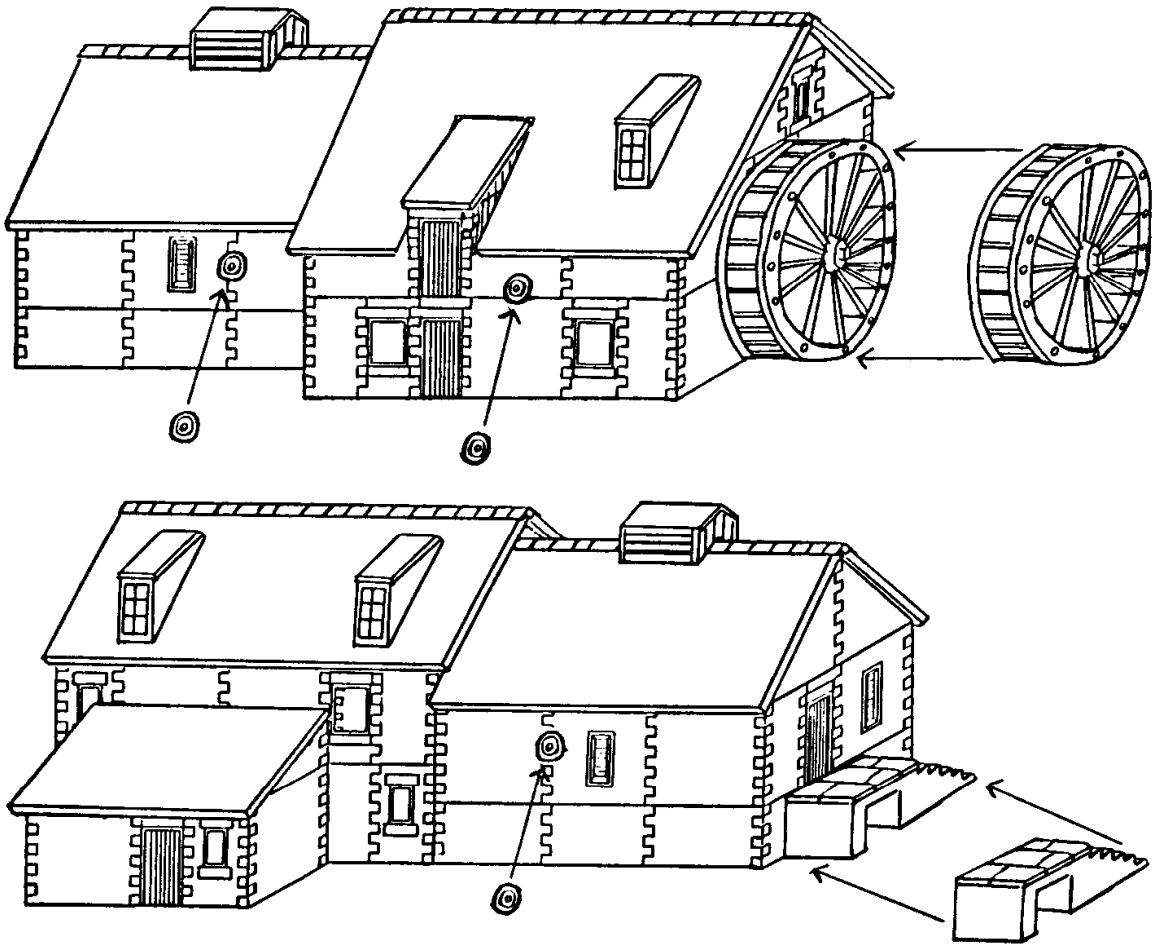


ADDING THE WATERWHEEL & STEPS:

1) Glue the supplied waterwheel in position on the side wall (or on the rear wall, if that is the chosen position), as shown below.

2) Glue the supplied steps onto the drying kiln end wall, to line up with the drying kiln door.

3) Add the supplied wall-strengtheners, as shown below.



PAINTING AND ADDING WINDOWS:

The model is now ready for painting. Many model paints can be used for painting Linka models, with pots of enamel or acrylic paints (such as "Humbrol", available from most model and craft stores) being popular. For brick and stonework, etc., use a matt paint; for doors, window frames, gutters, drainpipes, etc., use a gloss paint.

You should find the painting both interesting and straightforward, as the castings take paint well, with the crisp detail helping to guide your brush.

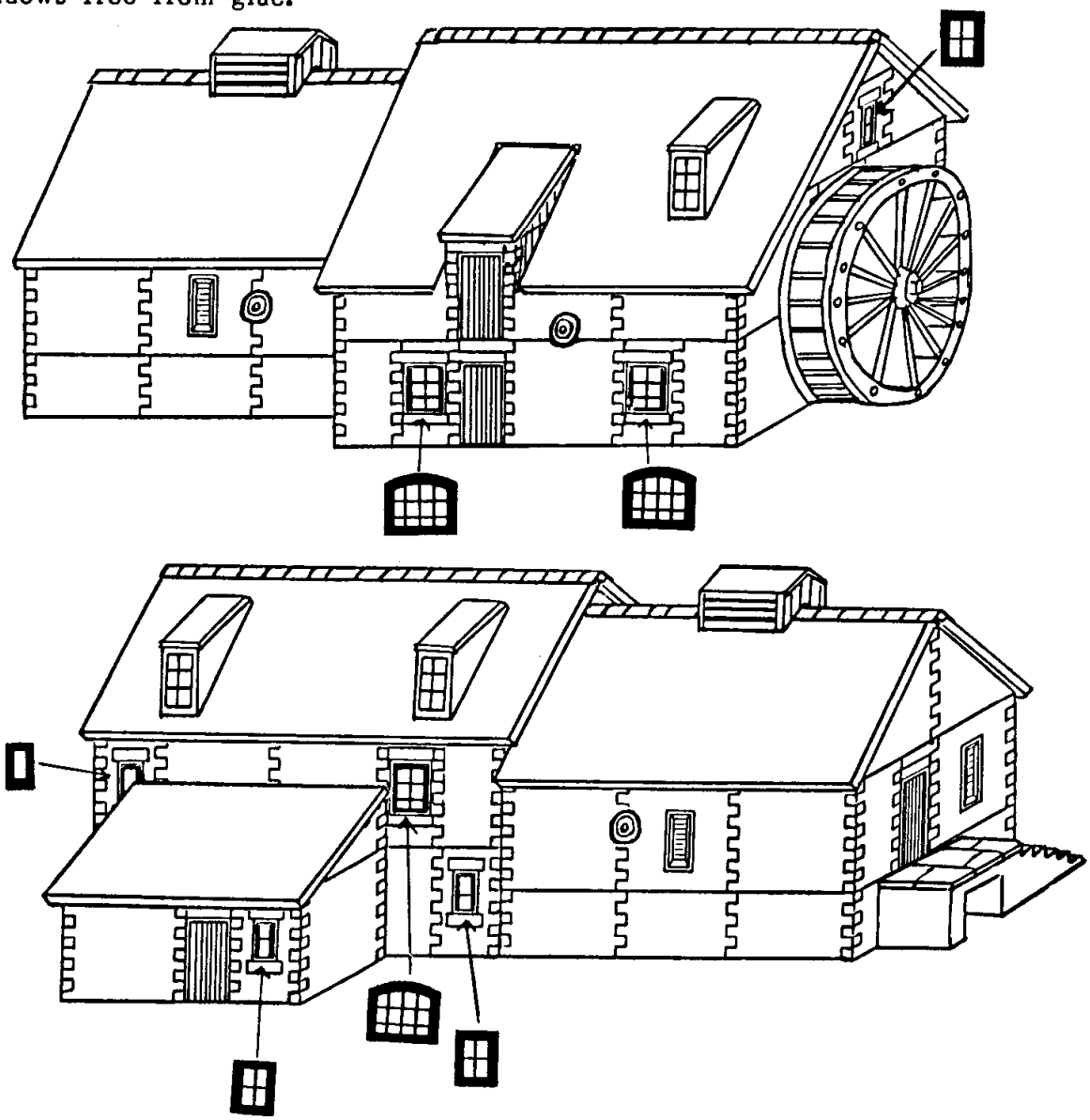
The exact shades and colours to be used are up to you, as stone and tile vary greatly in hue. You may find it helpful to refer to the coloured illustration on the box. A colour guide is also included in this kit.

1) Paint all stonework with your chosen stone colour, then all roofing with your chosen tile colour. Paint the dormer window panes black; when dry, paint the window frames white. Paint the background between the waterwheel spokes matt black; when dry, pick out the wheel and spokes with a timber shade.

2) Once this first coat of paint is dry, check the model for any gaps or ill-fitting joints. Fill any gaps by making a very weak mix of Linka moulding compound (about ½ teaspoon of compound to 3 teaspoons of water), and paint this mix into the gaps with a small paintbrush. An old toothbrush is useful for cleaning off any excess mix, as well as for cleaning out any detail that may have been inadvertently covered. Repaint with stone or tile colour, as needed.

3) Paint woodwork on the doors, vents, and window frames any suitable gloss colour.

4) When dry, cut out windows from the window sheet supplied; glue in place behind the window apertures of the model. Try to keep the surfaces of the windows free from glue.

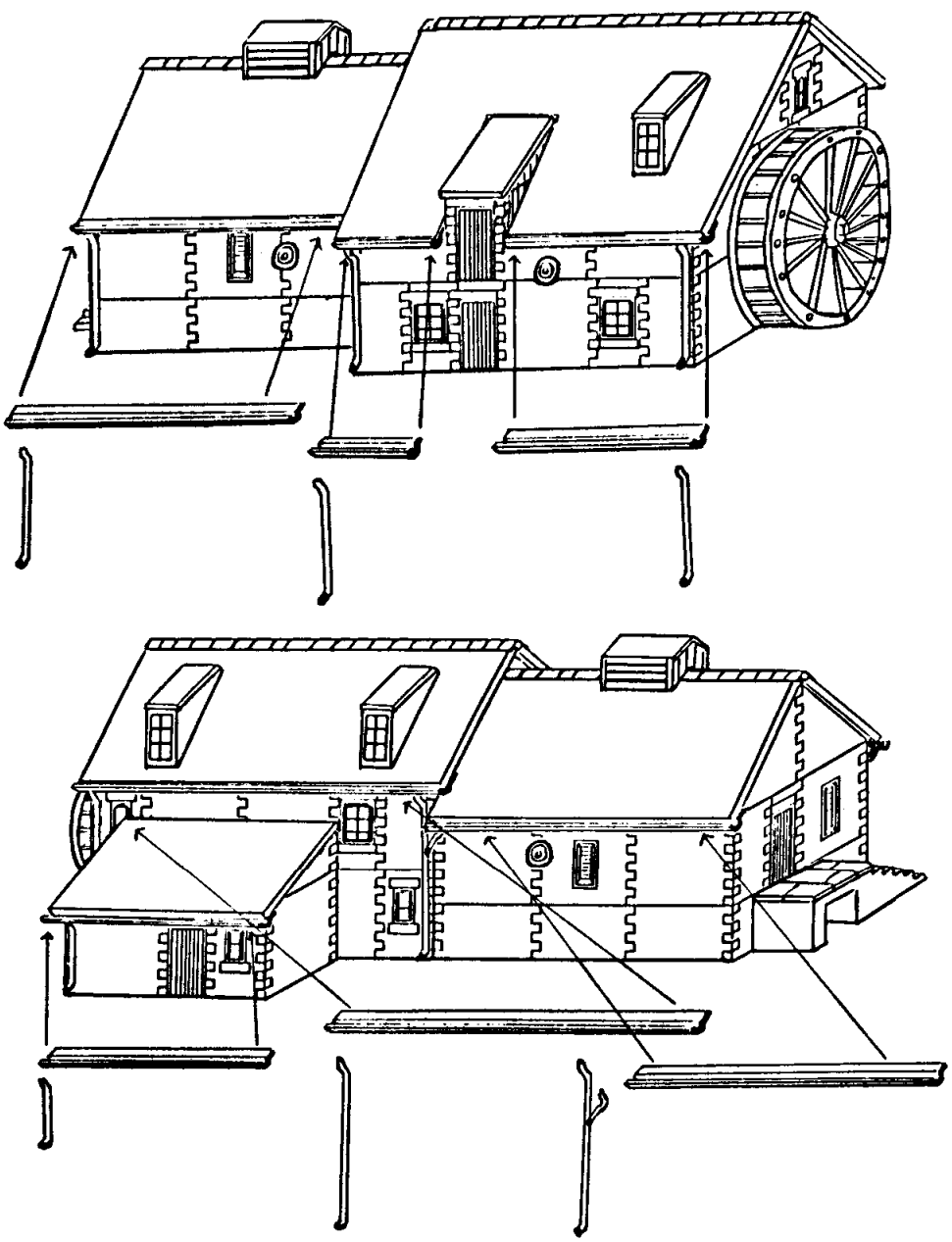


5) For greater realism, pick out various stones in different shades of stone colour. Do this by mixing a little palette of stone colour, and then adding small dabs of red or yellow to make a different shade of stone. This can be applied at random to various stones around the model. Do this two or three times with different shades. Repeat the process with varying shades of tile colour on the roof.

ADDING THE GUTTERS & DRAINPIPES:

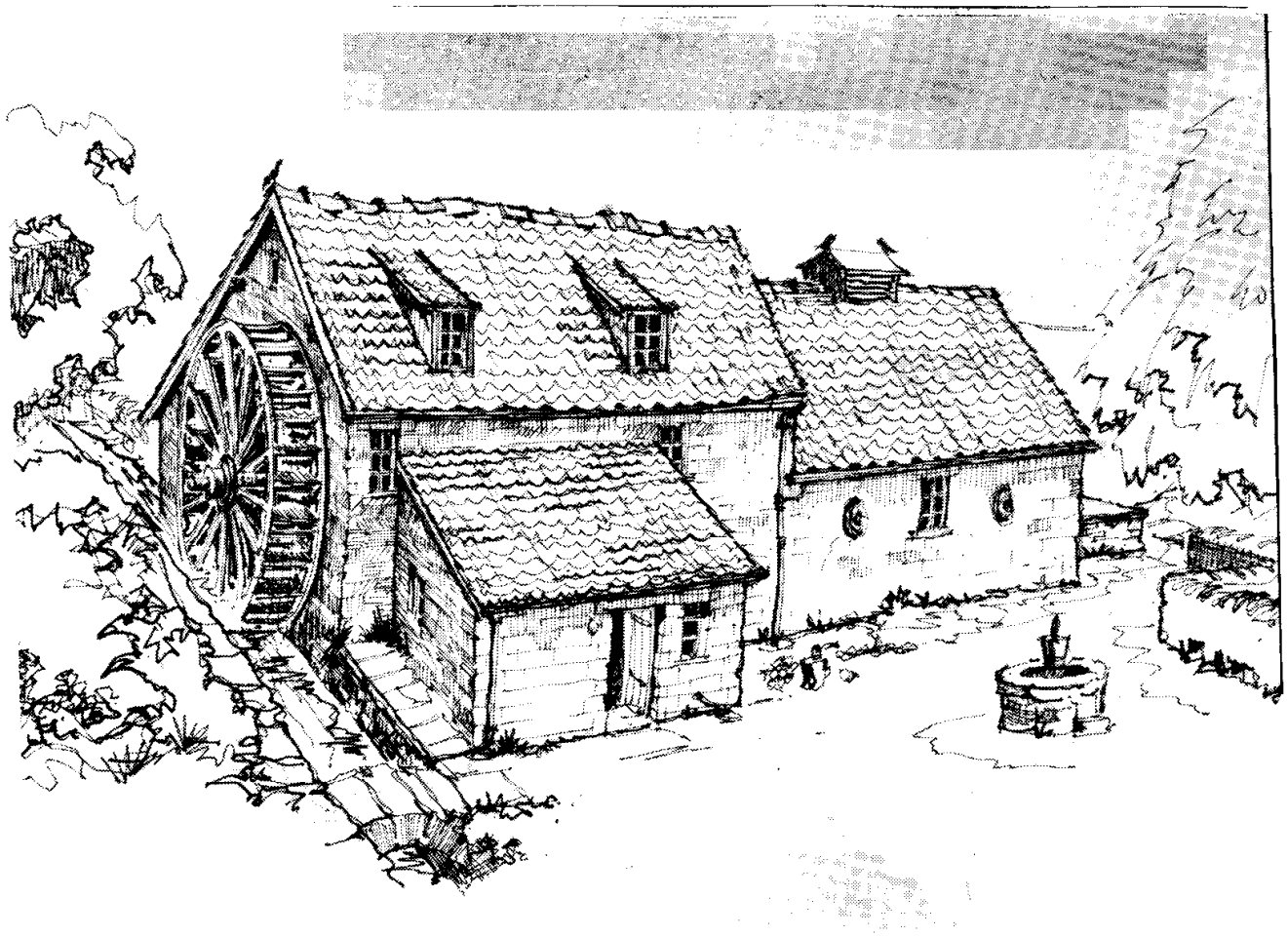
1) Glue the gutters in place on each roof as shown below, cutting as needed, and position so that just the lip of each gutter shows.

2) Glue the drainpipes in place as shown below, cutting and bending as needed.



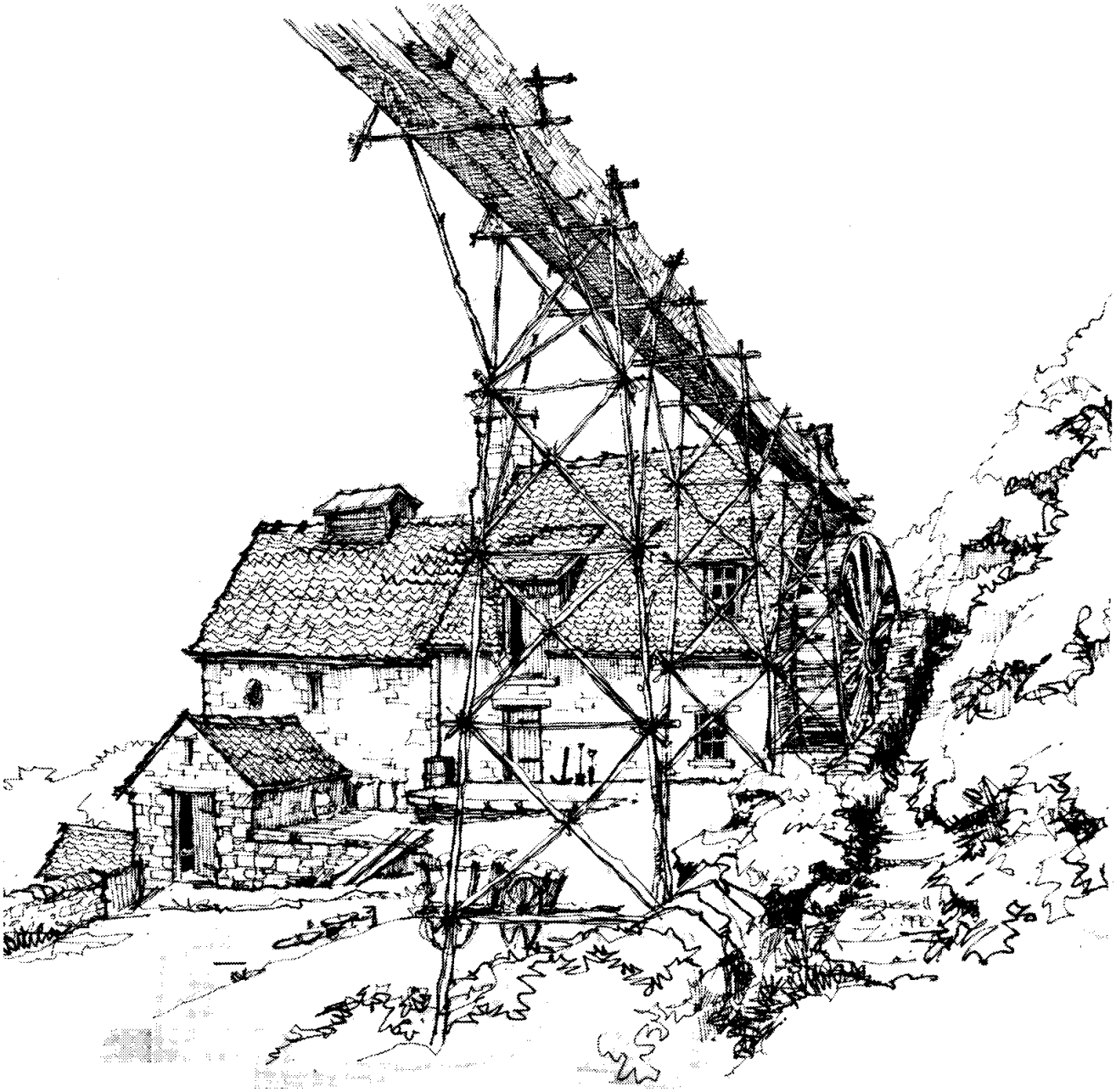
FINISHING:

To finish and weather the model, switch to watercolour paint in either powder, tube, or block form. With a well-diluted mix of grey watercolour, paint the entire stonework area; when dry, some of the paint will have collected in the mortar runs to represent cement. If it has 'greyed' the stonework too much, sponge off the excess. Repeat the process with a black wash for the roof. Add more watercolour for heavier weathering effects, or wash off and re-apply for any change of effect.



THE MILL RACE & SURROUNDING WALLS:

We hope you've enjoyed building this watermill. Enjoyed it enough, in fact, to keep going! By adding mill outbuildings perhaps ... and a mill race! ... and walls ...then a cottage row ... a country school ... or church ... or farm. Using & reusing your Linka moulds, getting the best value out of them -- for the most enjoyment! With all our kits, moulds, parts, & accessories, almost anything you can imagine, you can build -- with Linka.



AN OVERSHOT MILL:

Here's another idea for your watermill: use balsa wood to build an overshot water course, and Linka castings for outhouses and walls. Foliage and grass materials are available as spares (see the order form included with this kit).