

Using A Logan Studio Joiner To Create A Frame

YOU WILL NEED:

- 4 x lengths of moulding (cut to size with mitred ends)
- 1 x Logan Studio Joiner
- PVA wood glue
- 10 mm V-nails

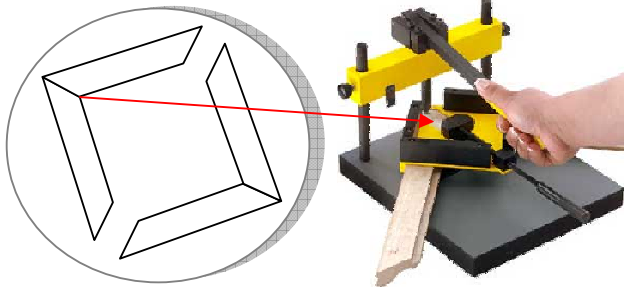
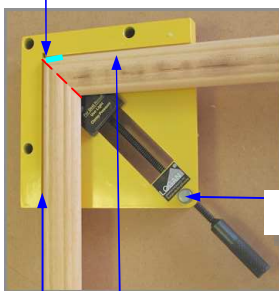


Diagram 1:

You will make 2 pairs of L-shapes. A good way of working is to put a long side in the left - hand part of the clamp... L for **left** and **long**

You may need to pack at this point to keep join closed

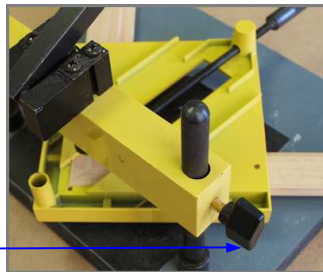


Quick release button

Clamp guide "fences"

Diagram 2:

Place 1 long piece of moulding on the left hand side of the clamp system and 1 short piece in the right hand side of the clamp system - moulding is face up, back of the moulding against the clamp "fence".



Adjustable beam knobs

Diagram 3:

Clamp is turned over and slid under the cross beam of the joiner.

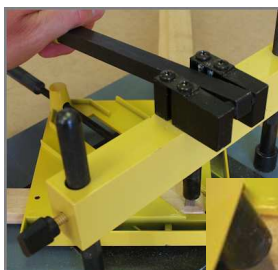


Diagram 4:

V-nails are positioned with the corner of the nail on the joint; the two edges running parallel to each of the edges of the moulding.

The Logan Studio Joiner Kit allows you to join 1 corner at a time. Using the clamp in the kit and the adjustable, supporting legs, you can make frames on a much larger scale than using a "strap clamp", to clamp all 4 pieces together before joining.

Before starting you need, 4 accurately cut lengths of moulding, each piece with mitred ends. Read through Handy Hints Sheets: **Cutting Mitre Joints Using A Mitre Saw (parts 1 & 2)** and **Using A Mitre Trimmer to Create Perfect Joints** for help before starting this section.

1. First of all join 2 pairs of L-shapes using a long and short piece for each pair. (see diagram 1). To place the first pair in the clamp, have the clamp face up (ie smooth surface). Press the quick release button on the clamp down, and keeping the pressure on the button, pull the threaded bar towards you and release the pressure on the clamp release button. (see diagram 2)
2. Put glue along one of the mitred ends of the first pair you are joining. Remember you will want the glued end to be in the joint you are making.
3. Put a **short piece in the right hand side of the clamp system** - moulding is face up, back of the moulding against the clamp "fence". Then place a **long piece of moulding in the left hand side of the clamp system** - moulding is face up, back of the moulding against the clamp "fence".
4. Before engaging the clamp, manually slide the two lengths of moulding along the two clamp fences until they join along the mitred ends. Manoeuvre until you are satisfied that the joint is a good one.
5. Engage the clamp "quick release" button and slide the threaded bar away from you until the clamp head is holding the mitre joint firmly. Release the button and tighten the clamp further using the knob at the end of the threaded bar.

NB. Occasionally there may be a need to pack one edge with a piece of mount board to ensure that all gaps are closed (see diagram 2). This is to do with the production of the moulding or the mitre cut you have made.

6. Now turn the clamp over and slide the clamp under the beam of the studio joiner. Place the size v-nail you are going to use on the magnetic pin. Loosen the two knobs at the ends of the beam and lower the beam and pinner so that the tip of the v-nail of the joiner is about 2 mm above the moulding. Tighten the two knobs.
7. Always put (minimum) two v-nails in each joint: first one on the "inside" edge of the frame; the second towards the "back edge".
8. Place the appropriate size v-nail on the magnetic pin of the joiner. Make sure the bevelled (sharp) edge of the v-nail is facing down. Using the black arm of the joiner, lower the v-nail until it is almost touching the surface of the moulding. Rotate the v-nail so that it is positioned with the corner of the nail on the joint and the two edges running parallel to each of the edges of the moulding. (see diagram 4) Use the black lever arm to push the nail into the moulding (see diagram 4). Adjust the position of the moulding to insert the v-nail towards the "back" edge of the joint.
9. **REPEAT ALL OF THE ABOVE** steps for the second pair of sides.
10. In the same way, join the two "L-shapes" together, working on one corner at a time.
Remember to glue two ends of one L-shape before clamping and joining the first of these two remaining corners.