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### 1. Assembling your M1 framemaker

Your M1 framemaker comes complete, you only need to 'slot and lock' the lower and upper sections of the vertical column, fit the optional table extensions and an operating handle to the top pressure

Remove your M1 framemaker from it's packaging. It will look as in Picture No.1. Extend the machine, by pulling the lower part vertically away from the upper part.

Slot the top part of the vertical column into the lower part of the vertical column and use the 2 nuts and bolts provided to lock the 2 sections together. (Pictures 2 and 3). These bolts go through the tie strap and the vertical bar to give rigidity.

### 2. Fitting the optional table extensions.

These extensions make it easier to handle larger frames by supporting the length and weight of the moulding.

Using the 4 nuts and bolts provided, fit the extensions to either side of the table.

To check the height of these extensions, place the fence (part no. 51) in position on the central table. The spigot and pin on the bottom of the fence will fit into the 2 slots on the central table. Ensure that it slides smoothly forwards and backwards on the special tufnol tapes.

The surface of the table extensions should be level with the surface of the fence.

This will ensure that the mouldings will sit horizontally when placed in position against the fence with the length of the moulding supported by the table extensions.

### 3. Setting the top pressure (Picture no. 5)

Screw the operating handle (part no. 3) into the top pressure actuating lever (part no. 1). Push the handle upwards and check that the threaded pressure bar can move up or down.

Release the operating handle and note that although the threaded pressure bar can be pushed down it can not move upwards.

Place 2 pieces of moulding in position on the fence. Choose the top pressure pad that you want to use for this moulding, fix it to the top pressure screw and adjust the height of the top pressure screw so that the height of the pad is approximately 25mm (1") above the moulding.

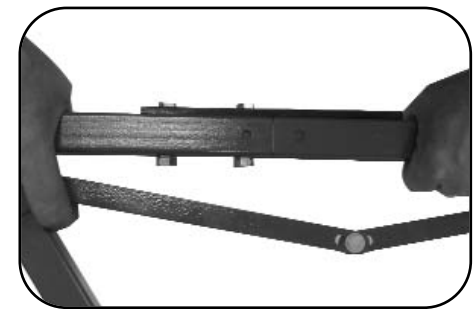
You will get to know which top pressure pad to use by experience. The best thing to do is to get some small pieces of different mouldings and underpin them with the M1 framemaker.



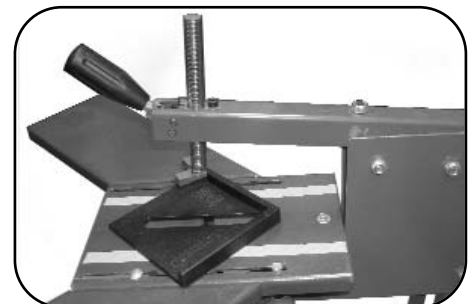
1. M1 in folded condition



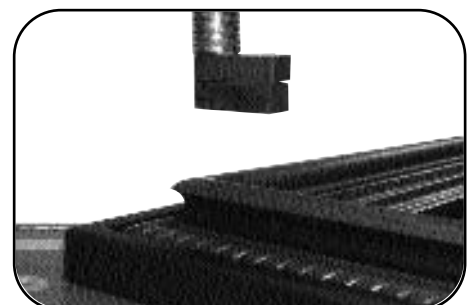
2. Connecting the vertical column



3. Locking the vertical column



4. View of table top, fence and top pressure



5. Setting the top pressure to the moulding

#### 4. Setting the production stops

Each rectangular frame that you make has 4 corners and most frames will have at least 2 positions in which the 'V' nails (wedges) will be inserted.

This means repeating the underpinning sequence 4 times .

There are 2 production stops fitted to the right hand slot of the table. These enable you to set the front and rear 'V' nail (wedge) position. This means that the 'V' nails (wedges) will be inserted in the same position in each corner, the stops also speed up the framing procedure.

To set the production stops, undo both production stops and slide one to each end of the slot. Place the fence in position between the 2 production stops.

Place one piece of moulding in position against the fence. Move the fence and moulding so that the rear required 'V' nail (wedge) position is directly over the V nail (wedge) slot in the table.

Undo and slide the production stop up to the edge of the fence and lock it in that position. Repeat for the front 'V' nail (wedge) position.

You have now set the production stops for the rear and front 'V' nail (edge) positions but this does not stop you from inserting 'V' nails (wedges) inbetween the rear and front positions.

#### 5. Inserting the 'V' nails (wedges)

We recommend that you always use glue as well as underpinning.

Your M1 framemaker will take 'V' nails (wedges) from 7mm to 15mm high.

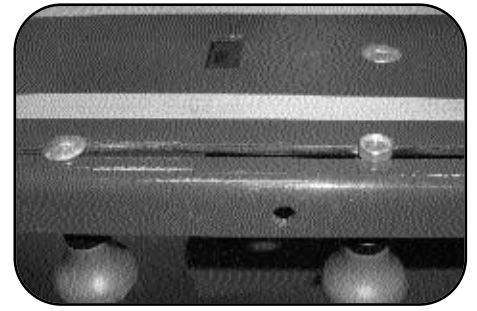
The height of the 'V' nails (wedges) used depends on the thickness of the moulding. It is possible to use 2 x 7mm high instead of 1 x 15mm high but generally it is best to use single 'V' nails (wedges).

Having set your production stops to suit the moulding and set the top pressure height above the moulding, place the chosen 'V' nail (wedge) in the slot in the table with the sharp edge pointing upwards.

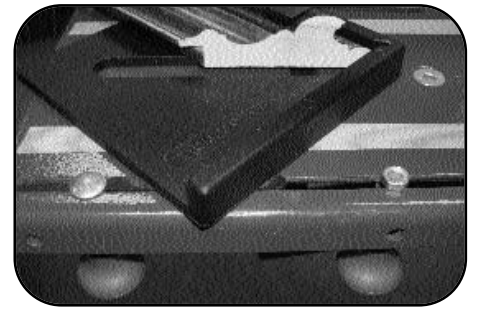
Holding the moulding and fence against the production stop, depress the footpedal. This will bring the top pressure down onto the wood and further depressing the footpedal will insert the 'V' nail (wedge) into the bottom surface of the moulding.

Note that normally this does not require any great pressure on the foot pedal. Excess pressure will cause damage to the top surface of the moulding and could damage the machine

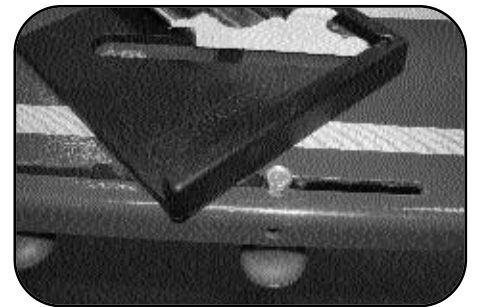
If you are using 2 'V' nail (wedge) positions then place a 'V' nail (wedge) in the slot, move the moulding and fence to the other production stop and fully depress the footpedal.



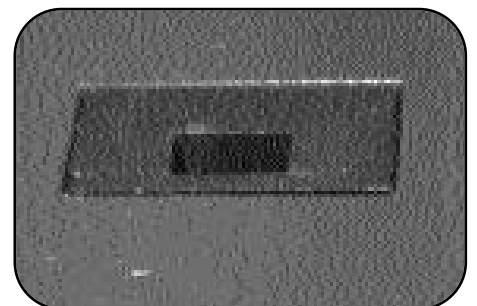
6. Two production stops



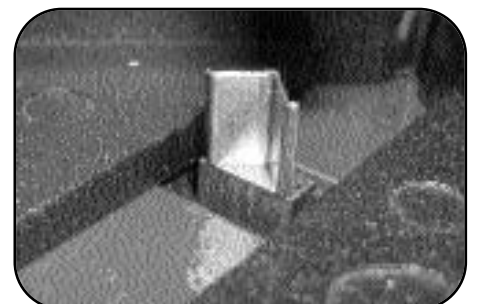
7. The rear production stop set for the rear wedge position



8. The front production stop set for the rear wedge position



9. Slot in the table for the 'V' nails (wedges), and driver.



10. 'V' nail, (wedge) sitting on top of the driver

## 6. Stacking for higher mouldings

The other reason for using the production stops is to help you stack one wedge on top of another when using a high moulding.

Insert the first 'V' nail (wedge), making sure that the moulding is held firmly against the fence and that the fence is held firmly against the production stop.

Place a second 'V' nail (wedge) in the slot in the table, position the moulding and fence carefully in the same position as before and insert the second 'V' nail (wedge).

If the moulding is not held in the same position precisely then the 'V' nails (wedges) will not be inserted one on top of each other but one behind the other.

With care it is possible to stack 3 'V' nails (wedges) on top of each other. However this also depends on the hardness of the moulding and the grain of the wood.

It is possible to underpin both wood and plastic moulding.

## 7. Looking after your M1 framemaker

Your M1 framemaker will give you many years of service if you take care of it:

Keep it clean by wiping regularly with a little light oil on a duster.

Do not allow adhesive to get inside the 'V' nail (wedge) slot on the table. Spray a little light oil such as WD40 in the 'V' nail wedge slot monthly.

Check the driver to see that it is not marked or damaged in any way. This would affect your ability to stack 'V' nails (wedges) one on top of the other.

Check the table extensions are level with the fence.

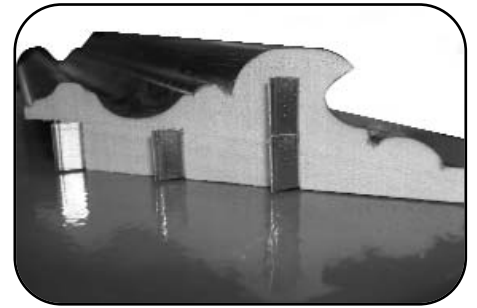
Make sure that all nuts and bolts are tight but do not over tighten.

The main thing to remember is not to use too much pressure on the footpedal

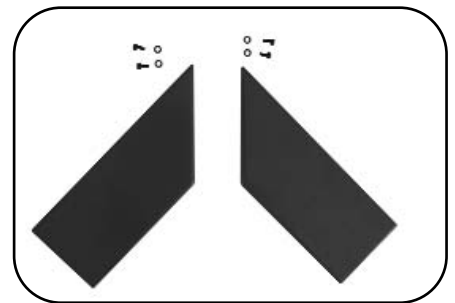
## 8. Safety

Do not leave a 'V' nail (wedge) in the slot in the table when you have finished using the M1 framemaker. It could cause an accident if the footpedal is accidentally depressed.

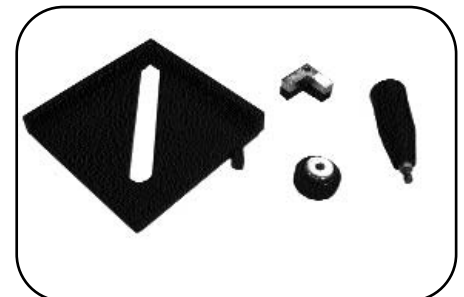
Be careful when handling the 'V' nails (wedges), they are sharp. Keep your fingers out of the way of the top pressure pad and the machine mechanisms  
Wear safety goggles.



11. 'V' nails, (wedges stacked for added strength on higher mouldings)

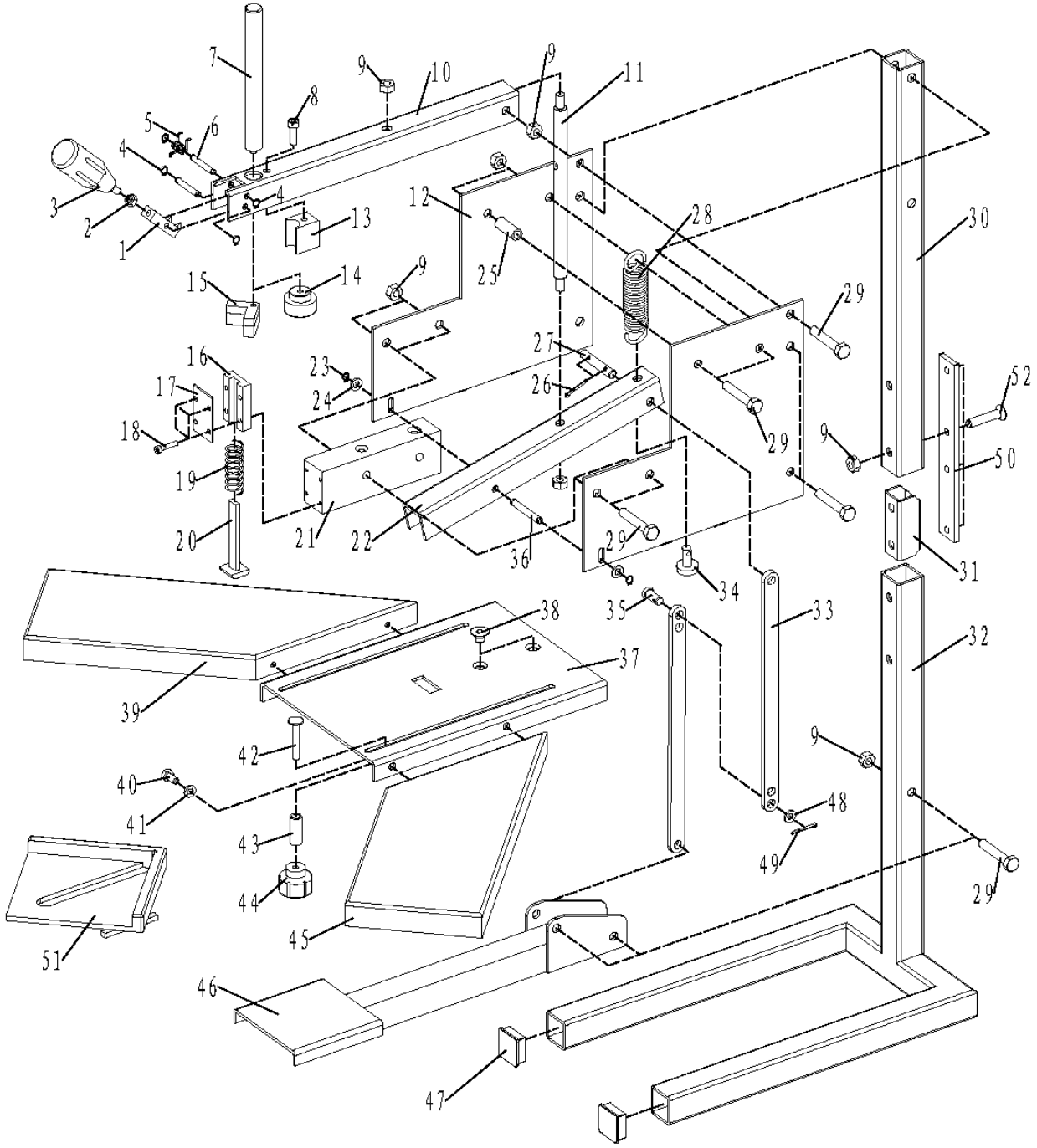


12. Optional table extensions



13. The M1 framemaker is supplied complete with fence, angle pad, round pad and handle for the top pressure operating mechanism. The table extensions are optional.

# M1 framemaker Exploded View



# M1 framemaker Parts List

Part No.	Description	Part No	Description
1	Locking bar	26	Split Pin x 2
2	M6 Nut	27	Upper Operating Bar Retainer
3	Locking handle	28	Head Spring
4	Circlip x 4	29	Hexagon Screw x 9
5	Locking Spring	30	Floorstand Column
6	Spindle x 2	31	Floorstand Joint
7	Vertical Pressure Bar	32	Floorstand Base
8	M6 Screw	33	Upper Operating Bar
9	M8 Nut x 15	34	Lower Spring Retainer
10	Top Bar	35	Pivot Pin
11	Connecting Bar	36	Lower Bar Stop
12	Head Plate x 2	37	Table
13	Vertical Pressure Support	38	Countersunk screw x 2
14	Round Top Pressure	39	LH Table extension (optional)
15	Angled Top Pressure	40	Scew x 4
16	Driver Support	41	Washer x 4
17	Driver Plate	42	Production Stop Spindle x 2
18	Screw x 4	43	Production Stop Spacer x 2
19	Driver Spring	44	Production Stop Knob x 2
20	Driver	45	RH Table extension (optional)
21	Head Bar	46	Footpdeal
22	Lower Bar	47	Stop x 2
23	Circlip x 2	48	Washer
24	Washer x 2	49	Split Pin x 2
25	Spacer	50	Tie Strap
		51	Fence
		52	Countersunk Screw x 4

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