

Aus7 Modellers Group 7mm Sleeper Laying Jig

Instructions.

Produced By
Keiran Ryan

Preface

This product was developed as a time saving jig to allow modellers to quickly set up a template of sleepers on which to scratch build a No. 6 point.

The sleepers required, are those that were originally supplied to the group from Mt Albert Scale Lumber Co in Canada, sold through the ARHS. Unfortunately they are no longer available. However new supplies of both standard and point sleeper material are being sourced through Warren Herbert (Gwydir Valley Models) using Kappler timbers in the USA, which is one of Warren's suppliers.

The sleepers are available through Gwydir Valley Models, and members can obtain them through Warren. However he does have limited supplies.

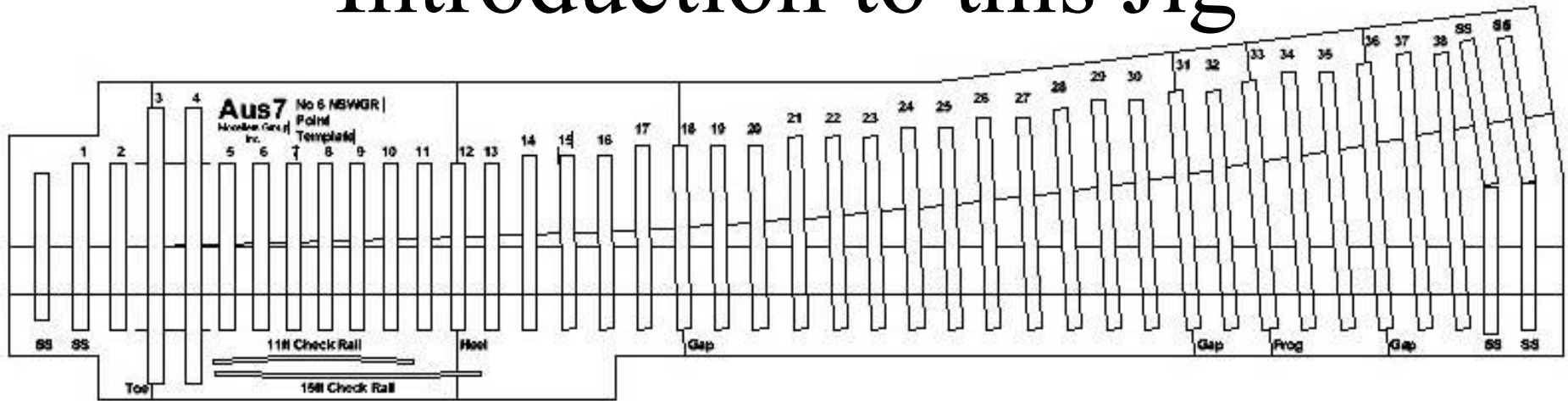
The new jig is also being sold through the Aus7 Modellers Group at a cost of \$20.00 for members and \$22.00 for non members.

Update

This page is just to let modellers know that this instruction deals with the first series of jigs. A second series has been released to deal with code 125 rail, and has an additional group of holes, next to the original holes, which are to be used to locate the stock rail. All jigs that will be available from now, on, will be with both sets of holes to cater for both rail sections

On the later jigs the holes are marked “A” and “B” with each type clearly marked on the jig, as are the indications for which is which.

Introduction to this Jig



Features:

1. Centre line indicators.
2. Toe, Heel, Frog and Rail Gap indicators.
3. Straight stock rail alignment indicator.
4. 7 pin holes for locating straight stock rail.
5. Sleepers numbered for simple identification.
6. Check rail bend gauges.
7. Left or right handed

How does it work?

Simply put:

Align any centre line marks as necessary,

Drill and pin the jig down to the base board.

Lay the sleepers with glue on their base.

Drill the stock rail holes to accept lace pins.

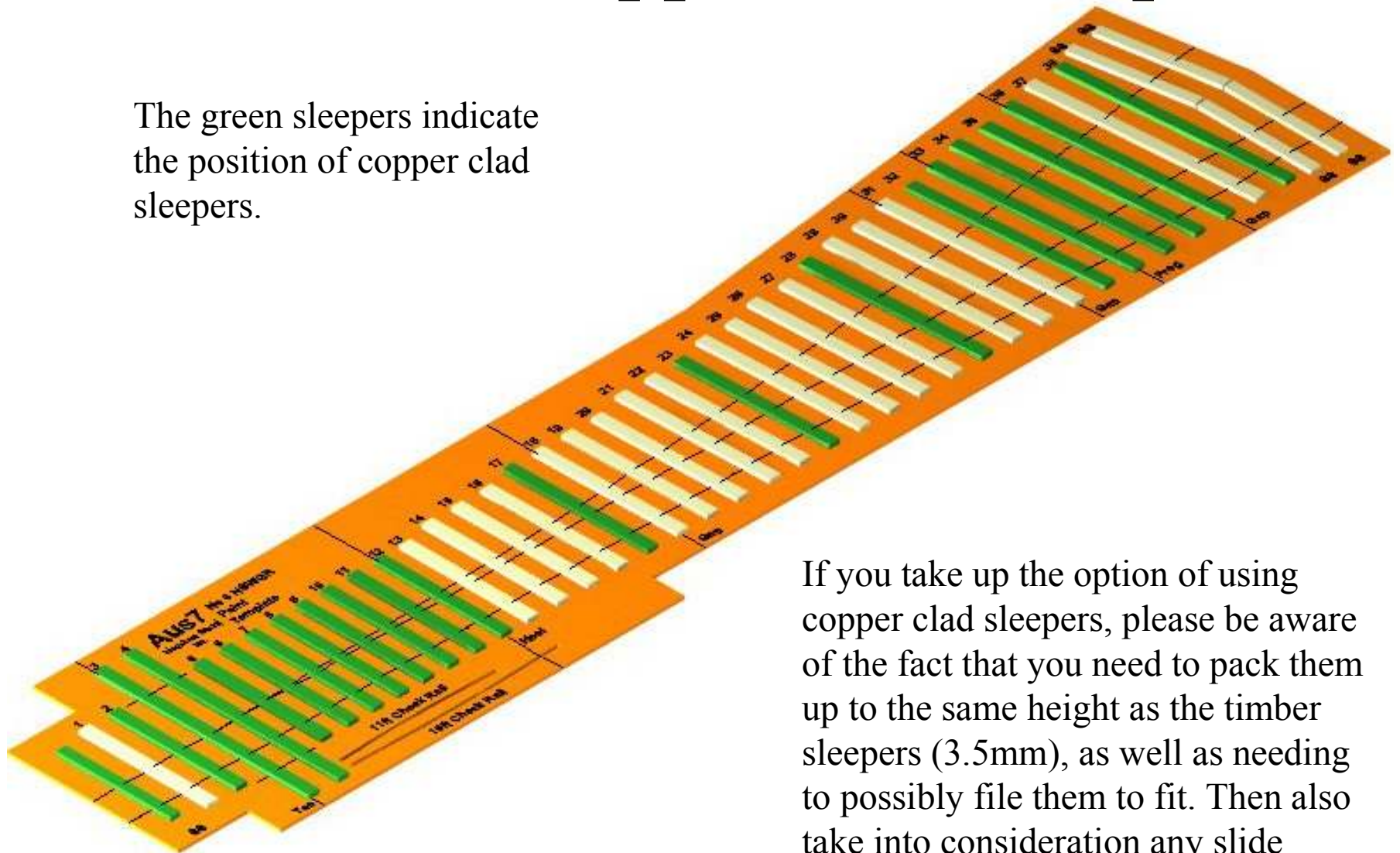
Place the pins into the holes, and remove the pin heads.

Remove the jig and lay straight stock rail against the pins

Build up the point from there.

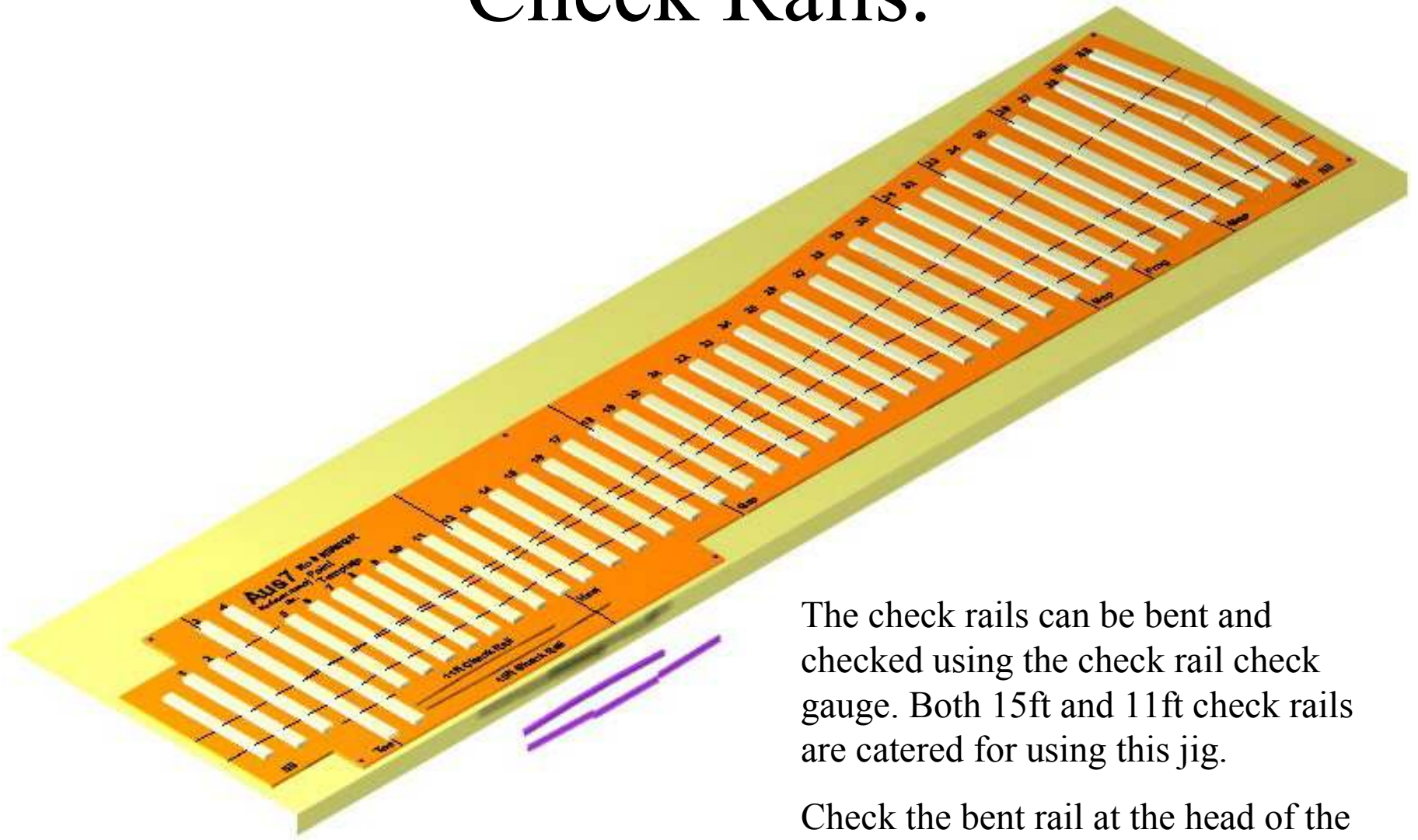
Position of Copper clad Sleepers.

The green sleepers indicate the position of copper clad sleepers.



If you take up the option of using copper clad sleepers, please be aware of the fact that you need to pack them up to the same height as the timber sleepers (3.5mm), as well as needing to possibly file them to fit. Then also take into consideration any slide chairs used.

Check Rails.



The check rails can be bent and checked using the check rail check gauge. Both 15ft and 11ft check rails are catered for using this jig.

Check the bent rail at the head of the rail, not the base.

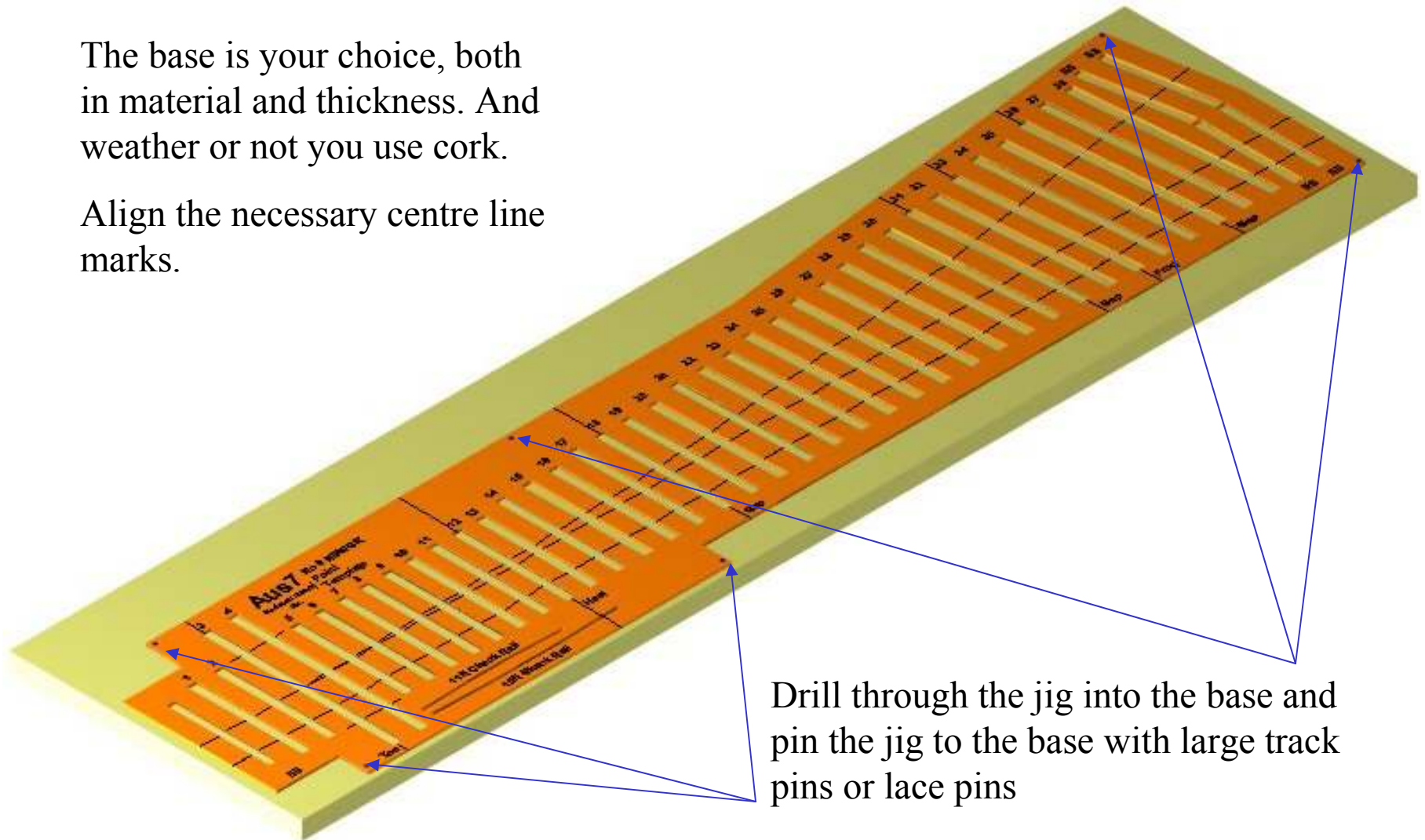
Sleeper Sizes

<i>Sleepers</i>	<i>MM</i>	<i>Size in Feet</i>	<i>Sleepers</i>	<i>MM</i>	<i>Size in Feet</i>
1-2	63mm	9ft	28	84mm	12ft
3-4	84mm	12ft	29-30	87.5mm	12ft 6in
5-13	63mm	9ft	31-32	91mm	13ft
14-16	66.5mm	9ft 6in	33	94.5mm	13ft 6in
17-20	70mm	10ft	34-35	98mm	14ft
21-23	73.5mm	10ft 6 in	36	101.5mm	14ft 6in
24-25	77mm	11ft	37-38	105mm	15ft
26-27	80.5mm	11ft 6in			

Step 1 - Pin the Jig to a Sub-base.

The base is your choice, both in material and thickness. And whether or not you use cork.

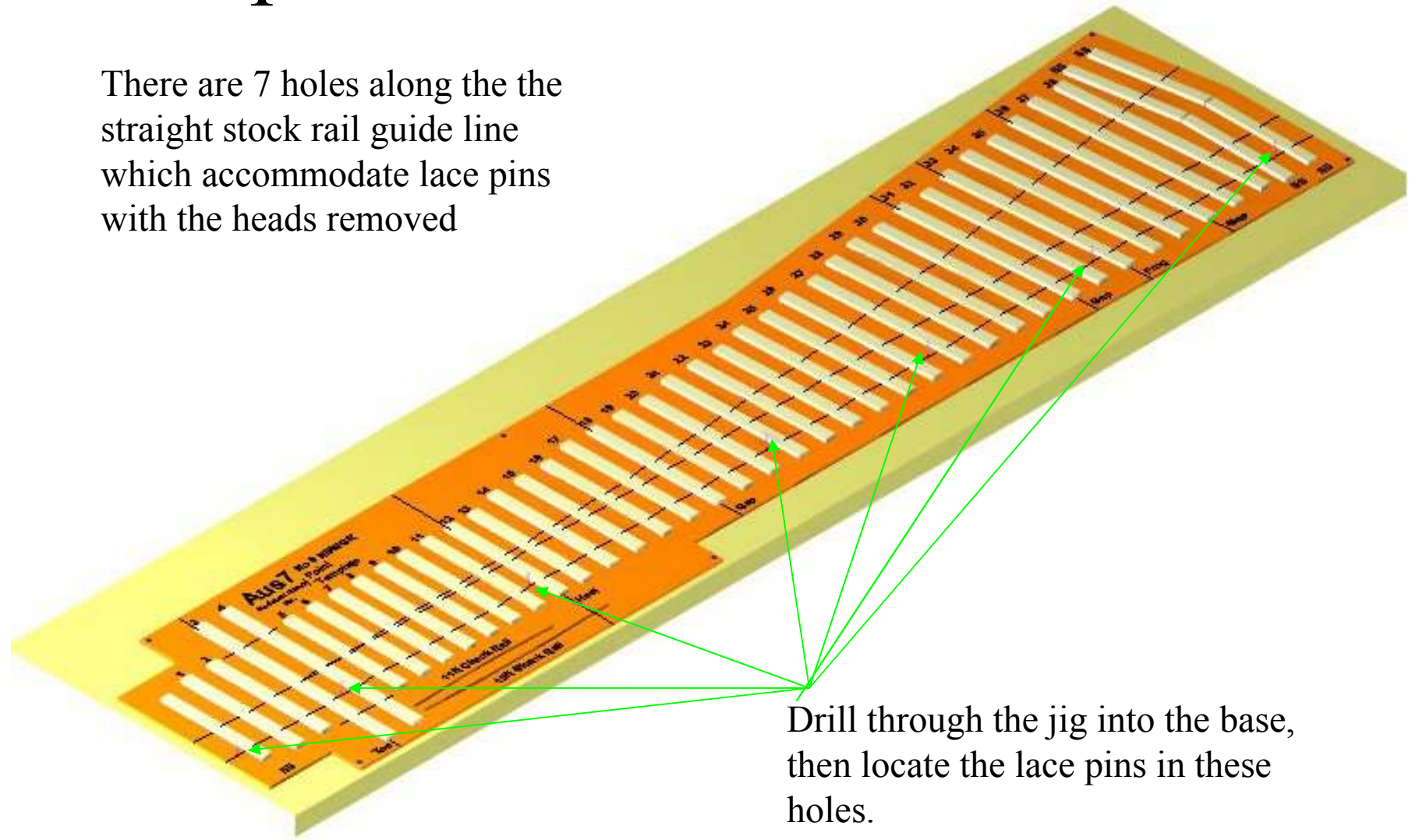
Align the necessary centre line marks.



Drill through the jig into the base and pin the jig to the base with large track pins or lace pins

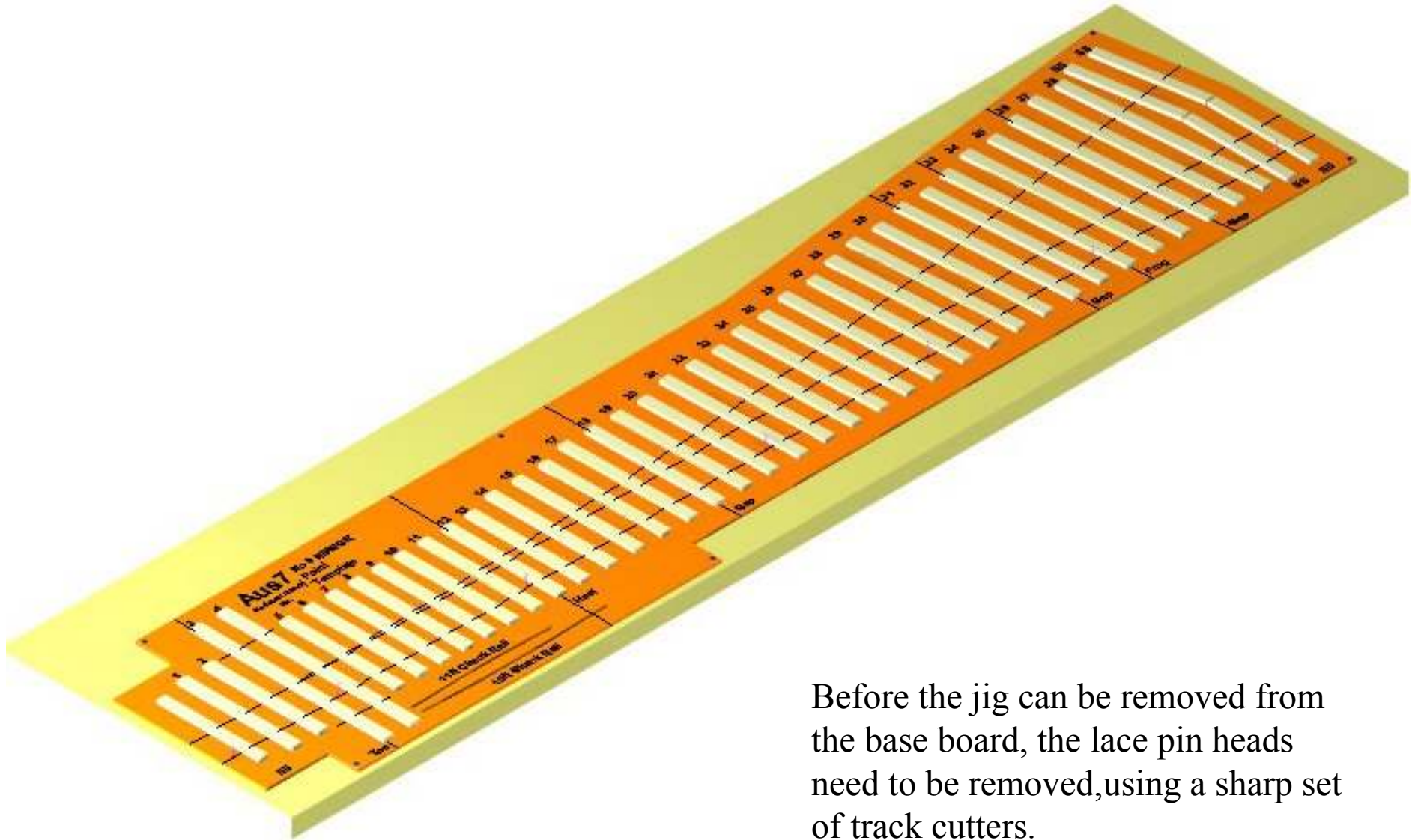
Step 3 – Pins for the Stock Rail.

There are 7 holes along the the straight stock rail guide line which accommodate lace pins with the heads removed



Drill through the jig into the base, then locate the lace pins in these holes.

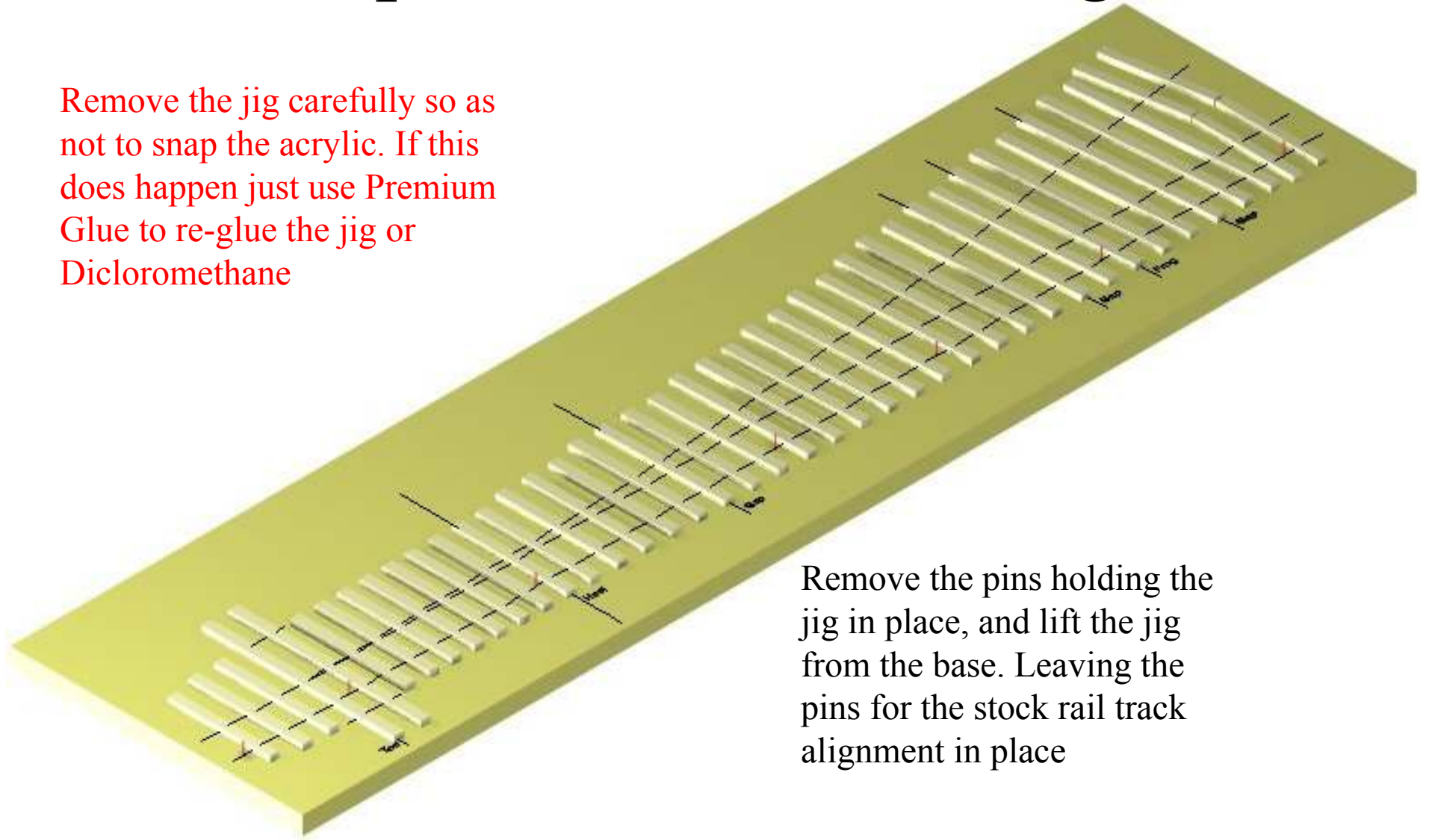
Step 4 – Remove the Pin Heads.



Before the jig can be removed from the base board, the lace pin heads need to be removed, using a sharp set of track cutters.

Step 5 – Remove the Jig.

Remove the jig carefully so as not to snap the acrylic. If this does happen just use Premium Glue to re-glue the jig or Dicloromethane



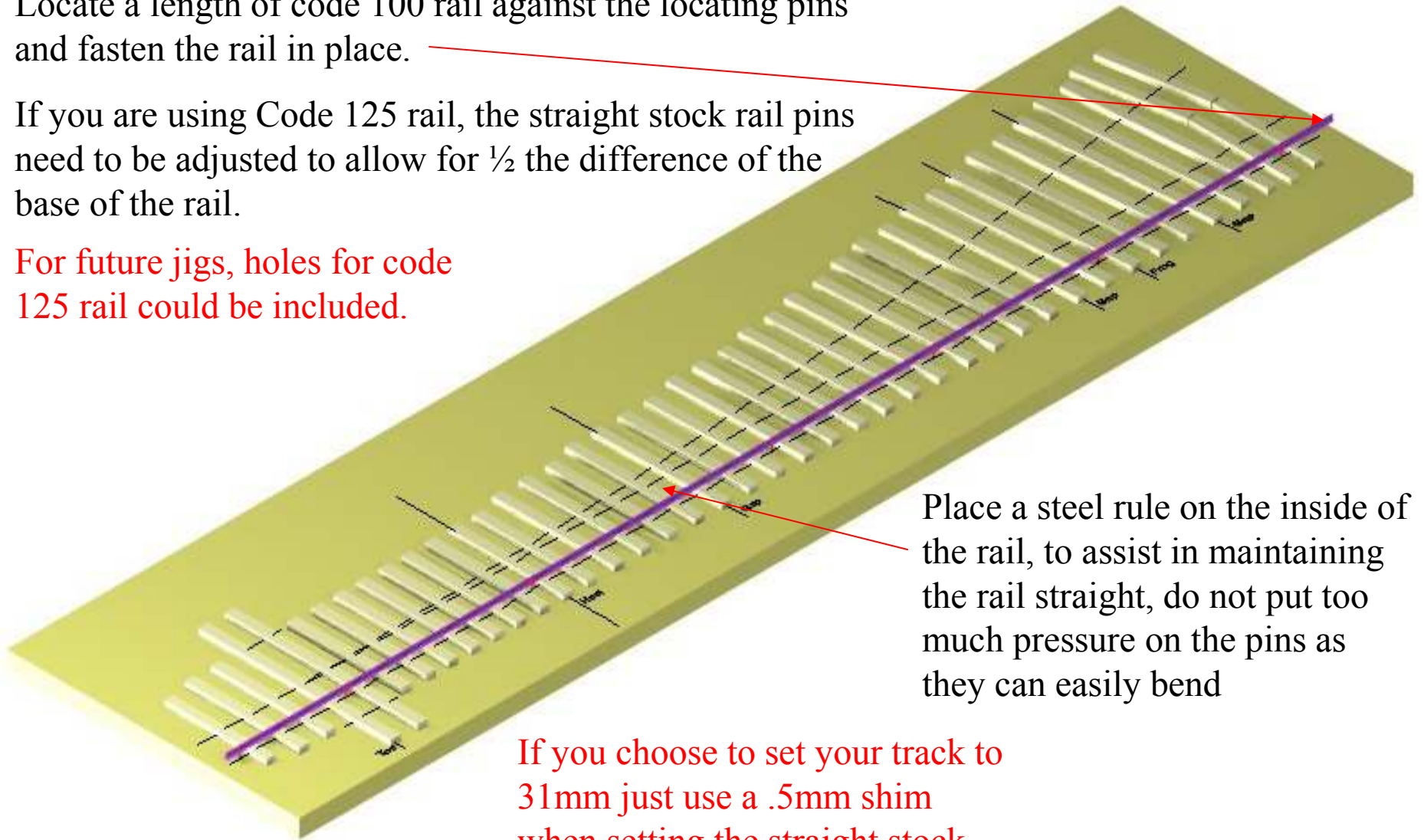
Remove the pins holding the jig in place, and lift the jig from the base. Leaving the pins for the stock rail track alignment in place

Step 6 – Secure the Stock Rail.

Locate a length of code 100 rail against the locating pins and fasten the rail in place.

If you are using Code 125 rail, the straight stock rail pins need to be adjusted to allow for $\frac{1}{2}$ the difference of the base of the rail.

For future jigs, holes for code 125 rail could be included.



Place a steel rule on the inside of the rail, to assist in maintaining the rail straight, do not put too much pressure on the pins as they can easily bend

If you choose to set your track to 31mm just use a .5mm shim when setting the straight stock rail in place.

The Future – Any Ideas

- Do you folks have any ideas that might be worth investigating.
- Possibly a Catch Point Jig -----?????
- Radius Template Jig ----- What Radius?????
- Possibly a No 8. Jig -----?????
- Straight Laying Jig----???????
- Thank You for you Time