



PowerPoint & Dowel Range

Detailed Instructions



For use with the following Part Numbers:

DCB-DWL	4 Pairs of Baseboard alignment Dowels
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DCB-BDkit	2 Pairs of Baseboard alignment Dowels plus drill bits
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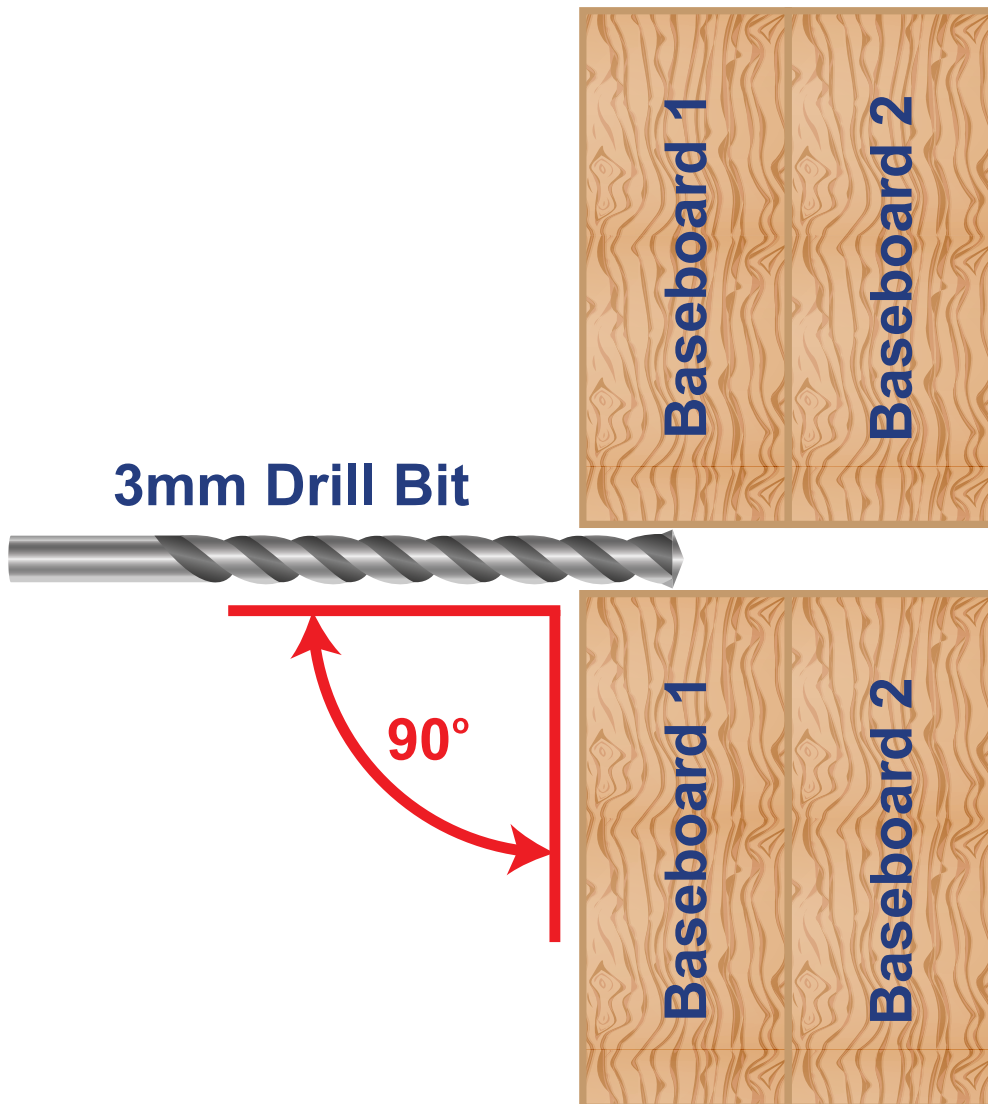
LM-PP.2	2 Pairs of PowerPoint Dowels for Baseboard alignment and inter-board power transfer
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LM-PP.4	4 Pairs of PowerPoint Dowels for Baseboard alignment and inter-board power transfer
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Step 1

Position and align the baseboards:

Place the two baseboards end-to-end with their joining faces together. Make sure the top and bottom edges, as well as the front and back faces, are accurately aligned. Clamp the boards firmly enough to prevent movement while drilling, but avoid excessive pressure that could mark the timber.



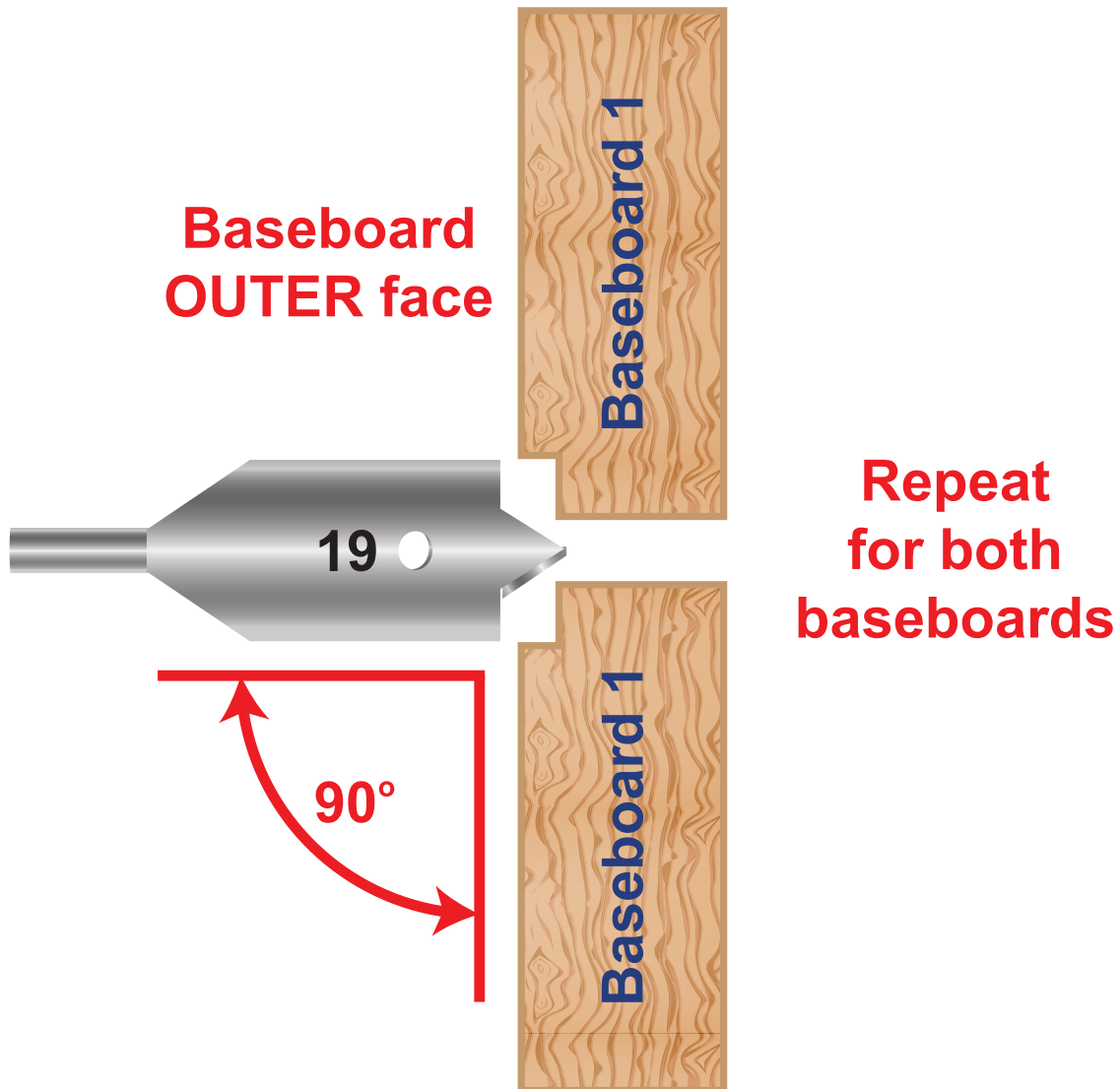
Drill the initial 3 mm hole:

Fit a 3 mm drill bit and mark the centre of the hole if required. With the two baseboards still clamped together, drill through both boards in one operation. Keep the drill perpendicular, 90°, to the face of the baseboards so that the hole runs straight through both pieces. Drill carefully to avoid wandering or damaging the timber as the bit exits.

Step 2

Separate the baseboards:

Once the 3 mm hole has been drilled, release the clamps and carefully separate the two boards. Keep the drilled faces clean and check that the holes remain correctly aligned with the ends of the boards.



Cut the 19 mm recesses:

Fit a 19 mm spade bit to the drill. Working on the outer face of each baseboard, centre the spade bit over the existing 3 mm hole. Carefully drill a shallow recess 1.5 mm deep. Take care not to drill deeper than required, as the recess is only intended to provide clearance for the dowel flange.

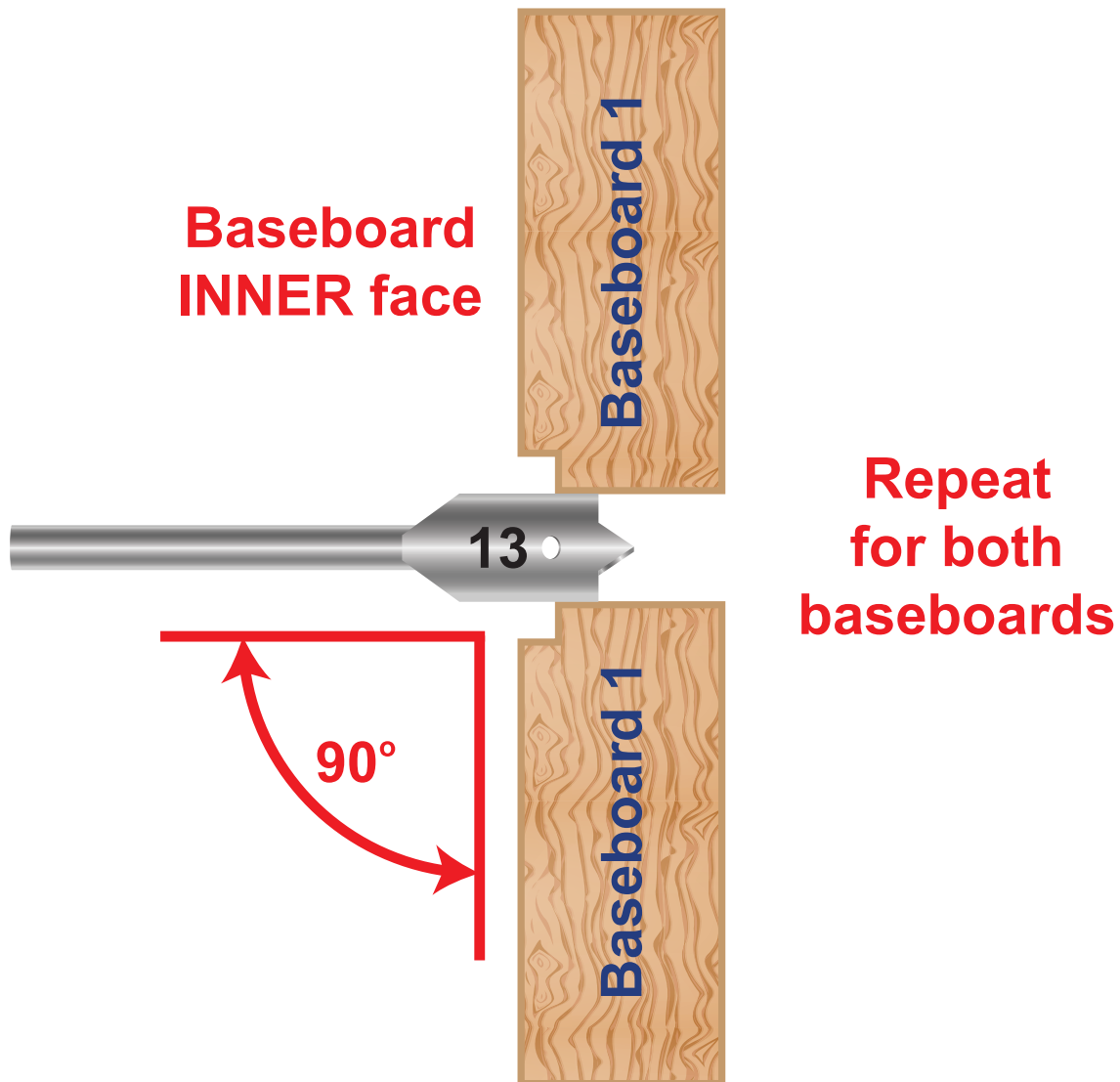
Check the recesses:

Remove any loose material or fibres from around the recess. Check that each recess is approximately 19 mm in diameter and 1.5 mm deep, and that it is centred accurately over the original hole.

Step 3

Drill the 13 mm hole:

Turn the baseboards over so that you are working from the outer face. Using a 13 mm spade bit, centre the bit on the existing 3 mm pilot hole. Drill completely through the baseboard until the hole breaks through into the previously cut 19 mm recess. Keep the drill straight and perpendicular to the board to ensure the hole remains accurately aligned.



Clean up the holes:

Remove all sawdust, loose fibres and debris from the 13 mm holes and the 19 mm recesses. Lightly clean the edges if necessary, taking care not to enlarge the holes or deepen the recesses.

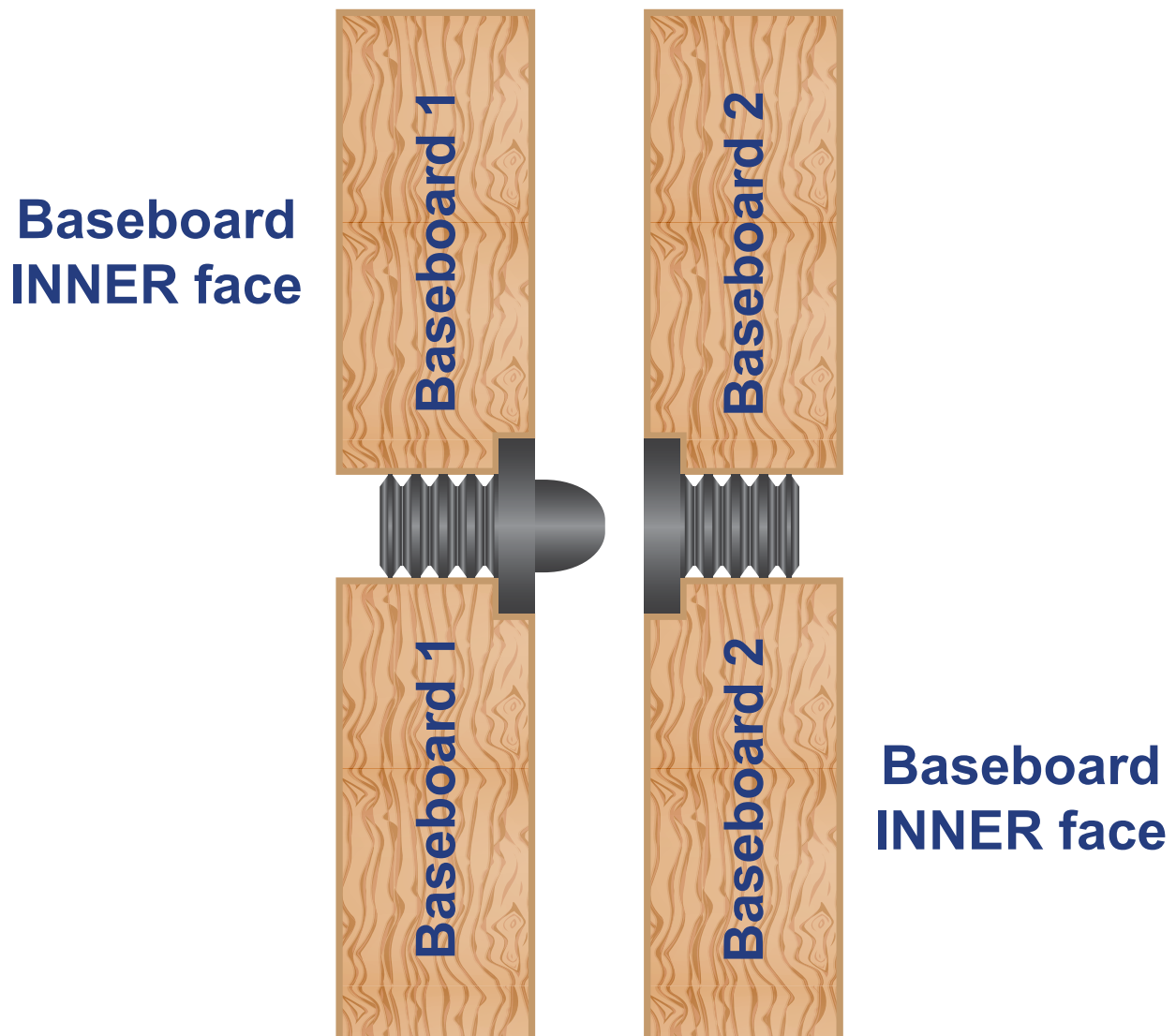
Test-fit the dowels:

Insert a dowel into each hole from the inner face of the baseboard. Check that it passes through the 13 mm hole correctly and that the flange seats neatly against the inner face of the baseboard. The flange should sit flush with the inner edge rather than protruding above it.

Step 4

Apply PVA:

Once the fit has been checked, remove the dowel and apply just a small drop of PVA to the part of the dowel that sits inside the hole. Avoid using excessive adhesive, as this can squeeze out around the flange and make cleaning up more difficult.



Install the dowels:

Push each dowel fully into position from the inner face. Make sure the flange is seated flush with the inner edge of the baseboard and that the dowel is straight and fully home.

Clean away excess adhesive and allow the PVA to dry:

Wipe away any PVA that squeezes out around the dowel or flange before it dries, ensuring the flange remains flush and the joint fits correctly. Then leave the dowels undisturbed until the PVA has fully set, following the adhesive manufacturer's recommended drying time.

Additional tips for Alignment Dowels

- When installing dowels, keep the drill at a 90° right angle to the baseboard ends when drilling the mounting holes.
 - Use at least two dowels, even on smaller baseboards up to 700mm wide.
 - For wider baseboards, consider using additional dowels for greater stability.
 - As a general guide, we recommend using one dowel every 375 to 450mm.
 - Alignment or PowerPoint Dowels are excellent for accurately laying out joints where doorway access is required.
 - If creating a drop flap, install the female dowel on the lifting bridge and the male dowel on the lower section. This orientation helps prevent debris from accidentally collecting in the cup of the female dowel.
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Additional tips for PowerPoint Dowels

- PowerPoint Dowels are designed to easily handle the highest current likely to be encountered on a DCC model railway.
- PowerPoint and Alignment Dowels are made from hardened alloys and specially treated to provide excellent corrosion resistance. This makes them suitable for repeated use when changing or rearranging layouts.
- PowerPoint Dowels are designed for long-term, reusable service, so they are supplied with spare springs and other replacement parts. Keep these in a safe place so they are available when needed.
- You can either solder the power bus wires directly to the PowerPoint Dowels or use the supplied terminals.