

The
Renovator

Join A Jig

Wood Joining System



**Simple, Fast,
Easy & Strong**



**INSTRUCTION
MANUAL**



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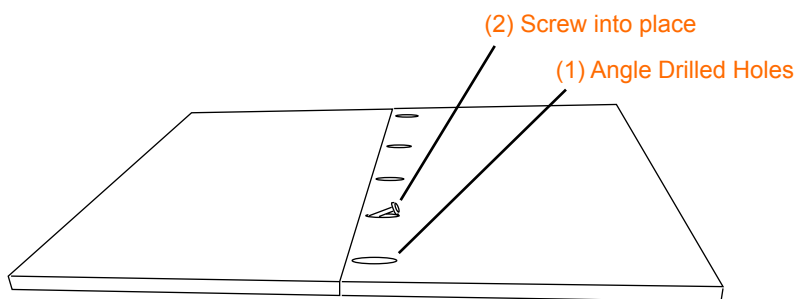


Welcome

About the Join-A-Jig™

The Join-A-Jig™ Wood Joining System enables you to create professional joints without the need for glue, dowels or biscuit joiners, eliminating the need to do time-consuming measurements and realignment.

View from underneath



Why read this manual

Take the time to read this manual so you can create craftsman-like joints. Following a few simple pointers will help you to avoid common mistakes that can spoil your project.

Support

If you experience problems with the Join-A-Jig™ or its performance, please call our Customer Service Team for assistance:

- ✓ 1800 890 840 in Australia
- ✓ 0800 002 999 in New Zealand
- ✓ 1800 200 3111 in United States



Or scan this QR code to go straight to the Join-A-Jig™ website.

Safety

Safety first!

Your Join-A-Jig™ is a professional tool. Your enjoyment will rely on observing a high level of personal safety as well as protecting the safety of others.

This section sets out important safety guidelines for using your Join-A-Jig™.

Work area safety

Follow the guidelines below to ensure your work area is safe to use the Join-A-Jig™.

Safety guidelines

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to mishandle the tool.

Safety

Personal safety

Follow the guidelines below to ensure your personal safety while operating the Join-A-Jig™.

Safety guidelines

- Stay alert, watch what you are doing and use common sense when using the Join-A-Jig™. Do not use the Join-A-Jig™ while you are tired or under the influence of drugs, alcohol or medication.
- Use personal protective equipment. Always wear eye protection and ear protection. If operating in a dusty environment, wear a dust mask (see next page).
- Do not overreach. Keep proper footing and balance at all times.
- Keep your hands clear of the work area and always dress properly.

Dust safety

Some dust created by the Join-A-Jig™ from drilling and other construction activities on certain materials may contain chemicals known to cause cancer, birth defects or other harm.

These chemicals include arsenic, boron and chromium from chemically treated timber.

Follow the guidelines below to ensure your personal safety from dust while operating the Join-A-Jig™.

Safety

Safety guidelines

- Always work in a well-ventilated area.
- Use dust masks specifically designed to filter microscopic particles as well as other approved safety equipment.
- Avoid long periods of exposure to dust from sanding, sawing, grinding, drilling and other construction activities.
- Wear protective clothing and wash exposed areas with soap and water.
- Do not allow dust to get into your mouth, eyes or on exposed skin. This may promote the absorption of harmful chemicals.
- Direct dust particles away from your face and body.

Power tool use and care

Follow the guidelines below when using your Join-A-Jig™.

Safety guidelines

- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by your hand or against the body leaves it unstable and may lead to loss of control.
- Only use accessories that are recommended for the Join-A-Jig™.
- Never use the Join-A-Jig™ around flammable or volatile substances, or use any volatile substances to clean the Join-A-Jig™.

What's Included

What's in the kit

This table list the components included in your retail kit.

Component	Quantity
Jig-A-Jig™ Wood Joining System	1
Square Driver	1
Step Drill Bit	1
Collar (for Step Drill Bit)	1
Join-A-Jig™ Screws (3.9x32mm Zinc)	600
Join-A-Jig™ Screws (3.9x51mm Zinc)	100
Join-A-Jig™ Plastic Plugs	10
Allen Key	1
DVD	1
Manual	1
Join-A-Jig™ DIY Project Plans	50
Mini Join-A-Jig™	1
5mm Spacer Block	1

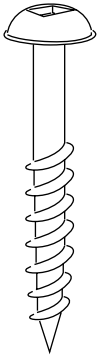
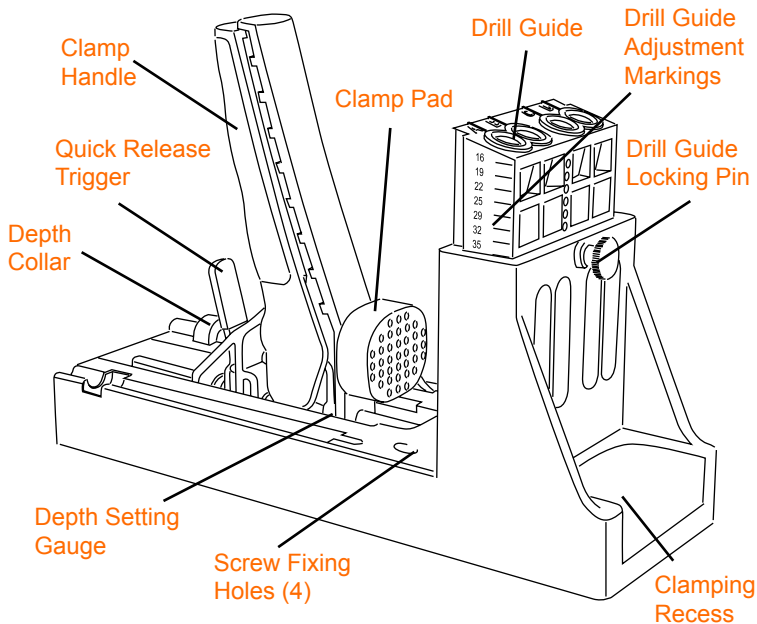
What's Included

Parts of the Join-A-Jig™

This table describes the parts of the Join-A-Jig™.

Part	Description
Clamp Handle	Squeezing the Clamp Handle grips holds the workpiece securely in place.
Quick Release Trigger	Releases the workpiece.
Clamp Pad	Prevents the timber from being dented when you tighten the Clamp Handle.
Drill Guide	The hardened zinc drill guides are the “core” of the Join-A-Jig™. As you drill the pocket holes the Step Drill Bit follows these guides at a precise angle calculated to provide optimal joint strength. The Drill Guide can be used in the Join-A-Jig™ or can be removed and used for repairing existing joints.
Drill Guide Locking Pin	Locks the Drill Guide into place while you adjust its height for different workpiece thicknesses.
Screw Fixing Holes (4)	Used to permanently secure the Join-A-Jig™ to your workbench. Tip: Remember to remove the rubber grip pads from the underside of the Join-A-Jig™ and keep them in a safe place.
Clamping Recess	Used to temporarily clamp the Join-A-Jig™ to your workbench.
Drill Guide Adjustment Markings	Indicate the Drill Guide's height setting.
Depth Collar	Sets the maximum plunge depth of the drill.
Depth Setting Gauge	Helps you find the correct Depth Collar setting for varying workpiece thicknesses.
5 mm Spacer Block	For repairs. Compensates for an addition 5mm increase in workpiece thickness

What's Included



About Join-A-Jig™ Screws

Join-A-Jig™ Screws are made from coated zinc and are engineered to not break or split the timber.

The large washer head is designed to sit firmly in the bottom of the pocket hole for maximum joint strength.

The half-threaded shank ensures that the threads sit primarily in the second workpiece, preventing the threads from working against each other and pushing the joint apart as the screw is driven.

The self-tapping tip eliminates the need to pre-drill holes in the second workpiece. The self-tapping tip of each screw drills its own hole as it is driven, so even the hardest wood, such as hickory and oak, does not split.

Call our Customer Service Team on 0800 002 999 in New Zealand, or 1800 890 840 in Australia for information about ordering Join-A-Jig™ Screws.

What's Included

About Join-A-Jig™ Plastic Plugs

Ten white Join-A-Jig™ Plastic Plugs for hiding pocket holes are included with the kit.

Call our Customer Service Team on 0800 002 999 in New Zealand, 1800 890 840 in Australia, or 1800 200 3111 in United States for information about ordering Join-A-Jig™ Plastic Plugs.

If you require wooden plugs, we recommend contacting your local hardware dealer.

Using the Join-A-Jig™

Overview

Using your Join-A-Jig™ involves the following steps:

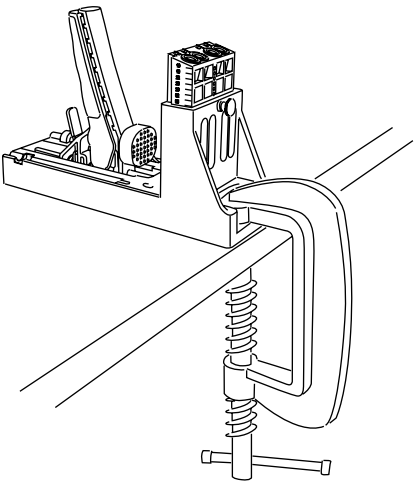
- ✓ Making sure the Join-A-Jig™ is secured to the workbench.
- ✓ Selecting the correct screw for the job.
- ✓ Setting the depth at which your workpiece will be drilled using the Depth Collar and the Drill Guide.
- ✓ Securing the workpiece in the Join-A-Jig™.
- ✓ Drilling the workpiece.
- ✓ Joining workpieces together.
- ✓ Hiding the pocket holes.

Securing the Join-A-Jig™ to the workbench

Before using the Join-A-Jig™ you need to make sure that it is secured to the workbench. You can secure it either permanently or temporarily.

If you want to ...	Then...
Permanently attach the Join-A-Jig™ to the workbench	Secure it using the four Screw Fixing Holes Tip: Remember to remove the rubber grip pads from the underside of the Join-A-Jig™ and keep them in a safe place
Temporarily attach the Join-A-Jig™ to the workbench so that you can take it off-site	Clamp it firmly using the Clamping Recess

Using the Join-A-Jig™



Selecting the correct screw

When selecting the Join-A-Jig™ Screw for your workpiece you need to choose the correct screw length and the correct thread.

Selecting the correct screw length

Use this table to find the correct screw length for your workpiece.

Workpiece Thickness	Recommended Screw Length	Join-A-Jig™ Setting
16mm	32mm	16mm Marking
19mm	32mm	19mm Marking
22mm	32mm	22mm Marking
25mm	32mm	25mm Marking
29mm	51mm	29mm Marking
32mm	51mm	32mm Marking
35mm	51mm	35mm Marking
38mm	51mm	38mm Marking

Using the Join-A-Jig™

Choosing a thread

Use this table to select the correct thread for the timber you are using.

Type of thread...	Description
Coarse	Softwood, such as: <ul style="list-style-type: none">• Pine• Cedar• Plywood• MDF• Particle board• Melamine• Kahikatea• Matai• Totara• Kauri
Fine	Hardwoods, such as: <ul style="list-style-type: none">• Mahogany• Teak• Oak• Macrocarpa• Rimu• Tawa• Silver & Red Beech• Jarrah• Australian Red Cedar• Eucalyptus/Gum

Note: Call our Customer Service Team on 0800 002 999 in New Zealand, 1800 890 840 in Australia, or 1800 200 3111 in United States for information about ordering Join-A-Jig™ Screws.

Using the Join-A-Jig™

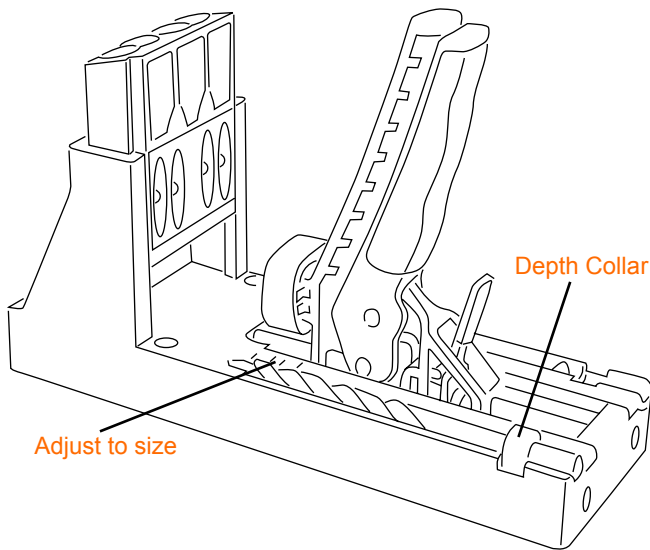
Setting the Depth Collar

For optimal joint strength you need to set your Join-A-Jig™ Depth Collar so that the pocket holes are drilled at the correct depth for your workpiece. Setting the correct drill depth means that the self-tapping screw will exit at the centre of the first workpiece.

Follow the instructions below to set the maximum plunge depth of the Step Drill Bit using the Depth Collar.

Step	Action
1	Loosen the Depth Collar using the Allen Key.
2	Align the tip of the Step Drill Bit with the measurement on the Depth Setting Gauge that best matches the thickness of the workpiece.
3	Fasten the Depth Collar using the Allen Key.

Example: For a 35mm workpiece align the Step Drill Bit tip with the 35mm mark on the Depth Setting Gauge.



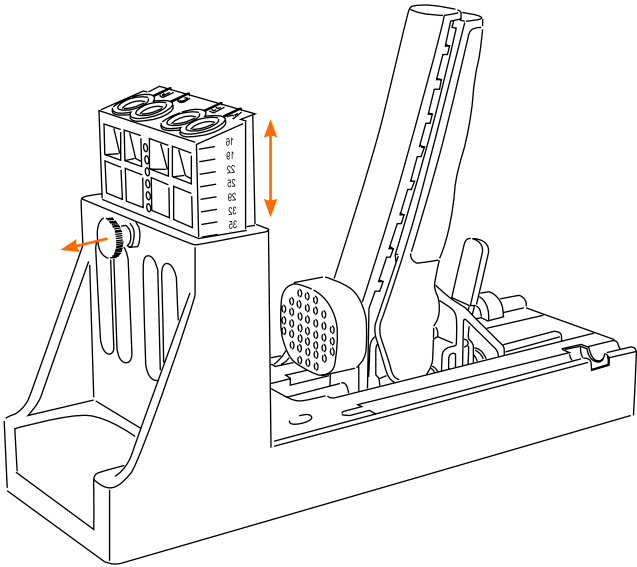
Using the Join-A-Jig™

Setting the Drill Guide Height

The height of the Drill Guide can be adjusted for varying workpiece thicknesses.

Follow the instructions below to set the Drill Guide to the correct thickness.

Step	Action
1	Retract the drill guide locking pin.
2	Raise or lower the Drill Guide to match the workpiece thickness with the correct Drill Guide Adjustment Marking.
3	Release the drill guide locking pin

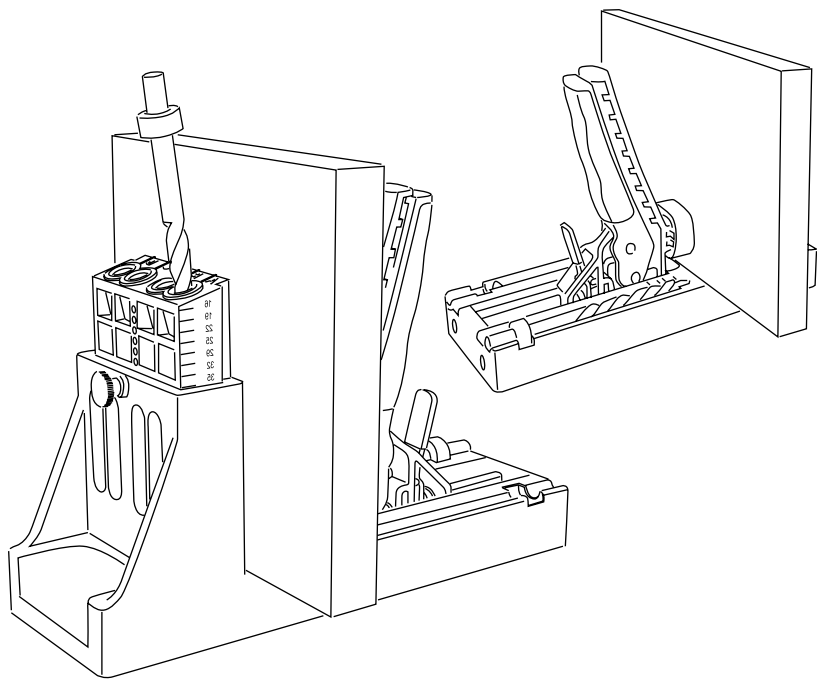


Using the Join-A-Jig™

Securing the workpiece

Follow these instructions to secure your workpiece in the Join-A-Jig™.

Step	Action
1	Place the workpiece in the Join-A-Jig™.
2	Slide the Clamp Handle up to the workpiece.
3	Lock the workpiece in place by squeezing the Clamp Handle grips.

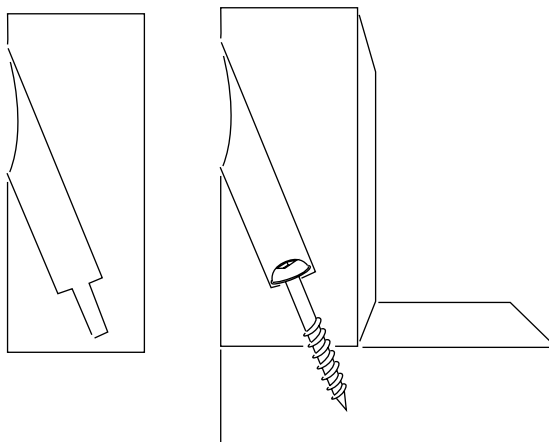


Using the Join-A-Jig™

Drilling the workpiece

The Join-A-Jig™ Step Drill Bit drills a flat-bottomed pocket hole and the stepped tip drills down further to create a pilot hole for the Join-A-Jig™ Screws.

To drill pocket and pilot holes in the workpiece, secure the Step Drill Bit in your drill and then drill the holes using the Drill Guide.



Placing pocket holes

When planning where to place the pocket holes keep these rules in mind.

1. All workpieces require at least two screws along any one side to stop them from twisting.
2. Allow at least 65mm of facing material to drill the pocket hole. Anything less and the Step Drill Bit will cut into the top edge of the workpiece as well as the facing side.
3. Drill a pocket hole at each end of the workpiece and add further holes to add strength where necessary.
4. Positioning screws in areas where more than two workpieces meet requires careful planning. Mark out the pocket-hole positions before drilling.

Using the Join-A-Jig™

Joining workpieces

Once you have drilled pocket holes in your workpiece you can join it to another workpiece.

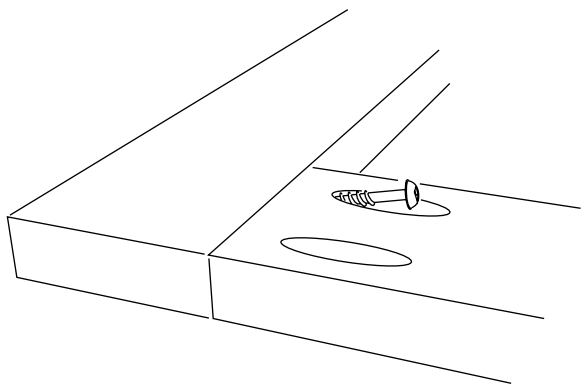
Refer to **Creating wood joints** for more information on the types of joints you can create using the Join-A-Jig™.

Follow these instructions to join two workpieces together.

Step	Action
1	Release the workpiece from the Join-A-Jig™ by squeezing the Quick Release Trigger and sliding back the Clamp Handle.
2	Align the two workpieces and clamp them together securely.
3	Use the Square Drive to insert a self-tapping screw in each pocket hole and drive the screw to join the two pieces together.

There is no need to drill a pilot hole in the second workpiece. As you drive the screw the screw shank follows the pilot hole in the first workpiece. The self-tapping screw then drills its own hole in the second workpiece.

Tip: To ensure square joins we recommend clamping your work.



Using the Join-A-Jig™

Hiding the pocket holes

You can finish the job by hiding the pocket holes using the Join-A-Jig™ Plastic Plugs.

Plastic Plugs allow you to quickly fill all pocket holes.

Tips:

- ✓ Be sure the screws are tightened all the way into the pocket hole to get the best fit before you fill the hole.
- ✓ Make sure the clutch on your drill is set low enough to avoid over-driving the screws.

Wooden plugs

To fill pocket holes using wooden plugs, insert the plug into the pocket hole and firmly tap the plug until it is tight in the pocket hole.

Note: Wooden plugs are not supplied with the Join-A-Jig™ and will need to be purchased from a hardware store or made.

Using the Mini Join-A-Jig™

Note: The Mini Join-A-Jig™ can only be used on timber 16mm thick and up.

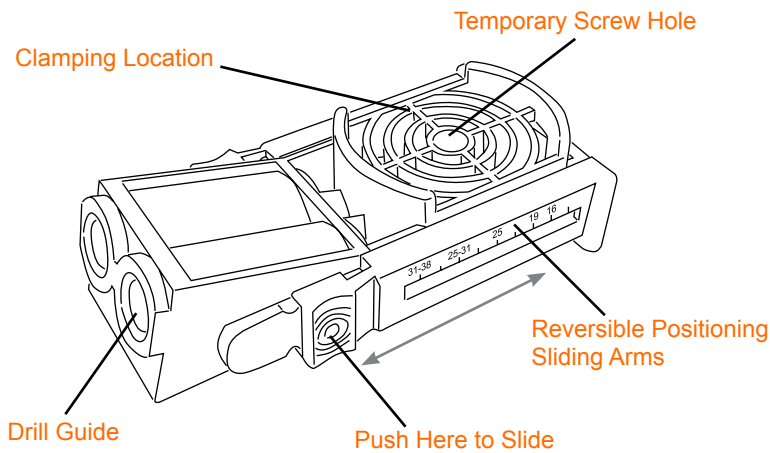
The Mini Join-A-Jig™ can be used when you need to create pocket holes off-site or make repairs in hard-to-reach places.

The Positioning Slides let you adjust the Mini Join-A-Jig™ to nine different settings for correct jig and screw placement.

Using the Join-A-Jig™

Follow these instructions to drill pocket holes using the Mini Join-A-Jig™.

Step	Action						
1	Set the Positioning Sliding Arms on the Mini Join-A-Jig™ and Depth Collar on the Drill Bit to match the workpiece thickness.						
2	Do one of the following.						
	<table><tr><th>If...</th><th>Then...</th></tr><tr><td>The area to be drilled is easy to reach</td><td>Use a clamp to attach the Mini Join-A-Jig™ to the workpiece.</td></tr><tr><td>The area to be drilled is difficult to reach</td><td>Reverse the Positioning Sliding Arms and screw the Mini Join-A-Jig™ into place. (See Screw Hole in picture below)</td></tr></table>	If...	Then...	The area to be drilled is easy to reach	Use a clamp to attach the Mini Join-A-Jig™ to the workpiece.	The area to be drilled is difficult to reach	Reverse the Positioning Sliding Arms and screw the Mini Join-A-Jig™ into place. (See Screw Hole in picture below)
	If...	Then...					
The area to be drilled is easy to reach	Use a clamp to attach the Mini Join-A-Jig™ to the workpiece.						
The area to be drilled is difficult to reach	Reverse the Positioning Sliding Arms and screw the Mini Join-A-Jig™ into place. (See Screw Hole in picture below)						
3	Drill the pocket holes.						



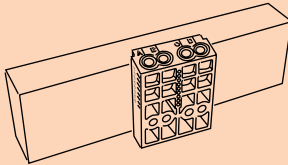
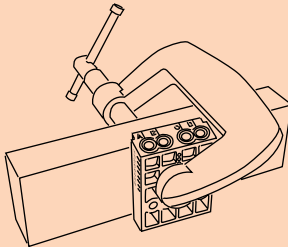
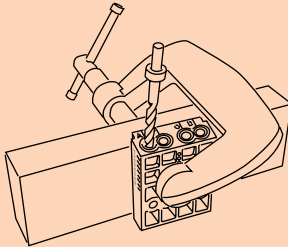
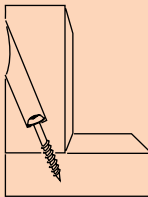
Using the Join-A-Jig™

Making repairs

Note: The Mini Join-A-Jig™ can only be used on timber 16mm thick and up.

You can use your Join-A-Jig™ to make repairs to existing furniture and cabinetry.

Follow these instructions to make repairs.

Step	Action	
1	Remove the Drill Guide from the Join-A-Jig™ and align the bottom edge of the Drill Guide with the edge of the joint being repaired.	
2	Clamp the Drill Guide in place. Note: You need to make your own spacer for timber thicknesses 20mm and up.	
3	Drill the pocket holes.	
4	Use the Square Drive to insert a self-tapping screw in each pocket hole and drive the screw to join the two pieces together.	

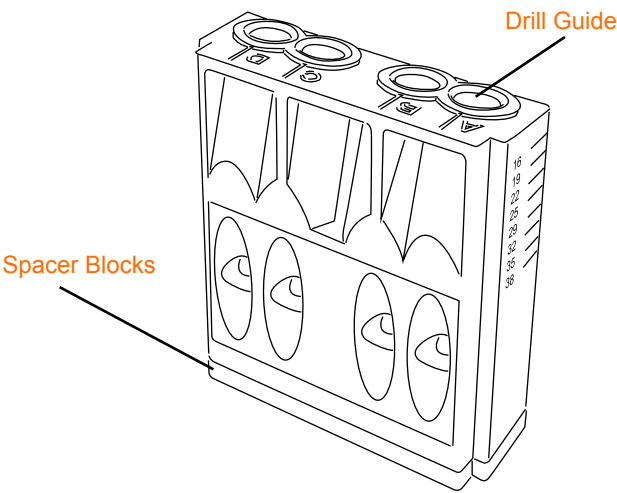
Using the Join-A-Jig™

Using a spacer block

The Drill Guide is set to centre a screw in 16mm - 19mm material. The Drill Guide also comes with a 5mm spacer block (already attached) to centre a screw in 20mm - 23mm material. You will need to make your own spacer blocks to compensate for thicker material.

If your workpiece is...	Then...
16mm - 19mm	No spacer blocks are required.
20mm – 23mm	Attach the 5mm spacer block supplied to the bottom of the Drill Guide. Note: When new, this is already attached.
24mm and up	Create your own spacer block. As a general rule use a 5mm spacer block to compensate for each 5mm increase in workpiece thickness.

Call our Customer Service Team on 0800 002 999 in New Zealand, 1800 890 840 in Australia, or 1800 200 3111 in United States for information about ordering Join-A-Jig™ spacer blocks.



Creating Wood Joints

Types of wood joints

The Join-A-Jig™ allows you to create a range of joints, including:

- ✓ Butt joints
- ✓ Mitre joints
- ✓ Leg and rail joints
- ✓ 90-degree panel joints

Creating these joints will help you build projects from the Join-A-Jig™ Ready-to-Build plans that came with your Join-A-Jig™.

Creating Wood Joints

Creating a butt joint

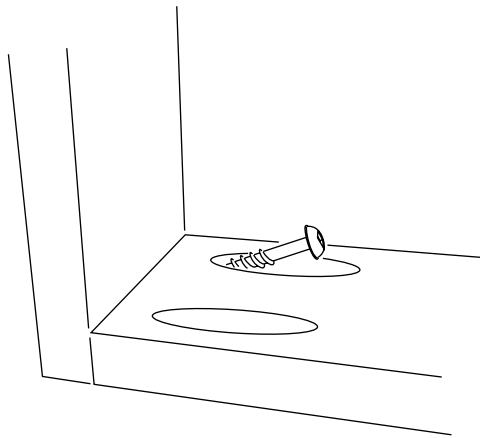
Butt joints are commonly used when making frames and cabinets.

Frames are made on a flat plane and include a horizontal rail into which the pocket-holes are drilled. These are connected to a vertical piece called a style.

Follow these instructions to make a butt joint.

Step	Action
1	Drill at least two pocket-holes on the back of the rail to make sure the joint will not twist.
2	Clamp the joint.
3	Use the Square Drive to drive in the screws.

Note: The Drill Guide lets you drill two pocket holes at the same time, without having to move your workpiece.



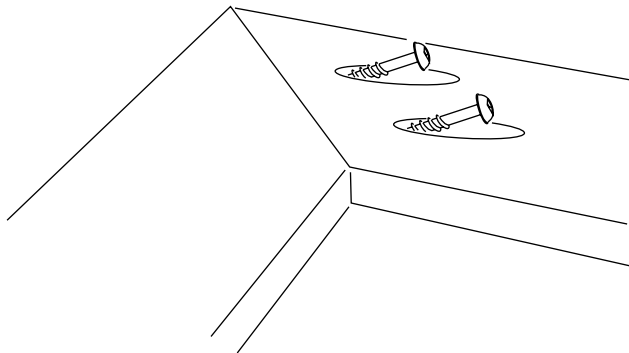
Creating Wood Joints

Creating a mitre joint

Mitre joints are commonly used on picture frames because no end grain shows.

Follow these instructions to make a mitre joint.

Step	Action
1	Cut your workpieces at exactly 45 degrees.
2	Place the 45-degree edge flat in the Join-A-Jig™. Tip: Position the workpiece so that the pocket hole will not go through the edge of the workpiece.
3	Drill two pocket holes.
4	Align your pieces and clamp with a face clamp.
5	Use the Square Drive to drive in the screws.



Creating Wood Joints

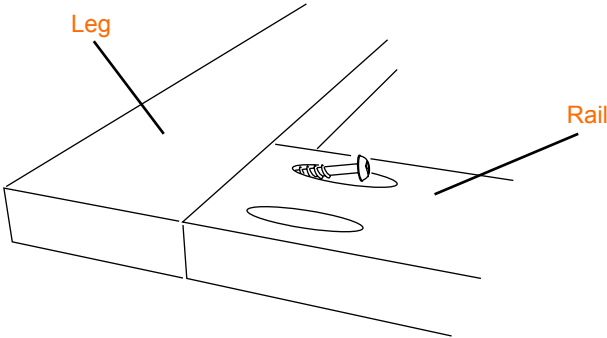
Creating a leg and rail joint

Leg and rail joints are used when building tables, chairs and similar furniture. There are generally two types of leg and rail joints: Flush rail and set-back.

Creating a flush rail joint

Follow these instructions to make a flush rail joint.

Step	Action
1	Clamp the leg to the workbench.
2	In the rail, drill the pocket holes required.
3	Use the Square Drive to drive screws through the rail to the leg

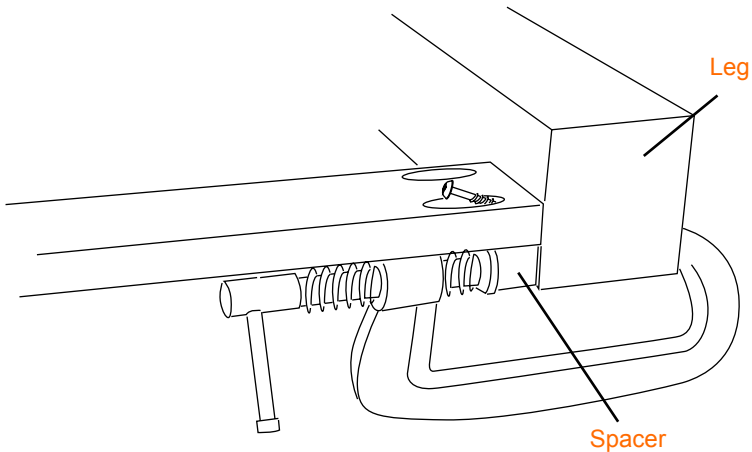


Creating Wood Joints

Creating a set-back joint

Follow these instructions to make a set-back joint.

Step	Action
1	Clamp the leg to the workbench.
2	Use a spacer the same width as the desired set-back and clamp the spacer to the leg.
3	In the rail, drill the pocket holes required.
4	Use the Square Drive to drive in the screws.



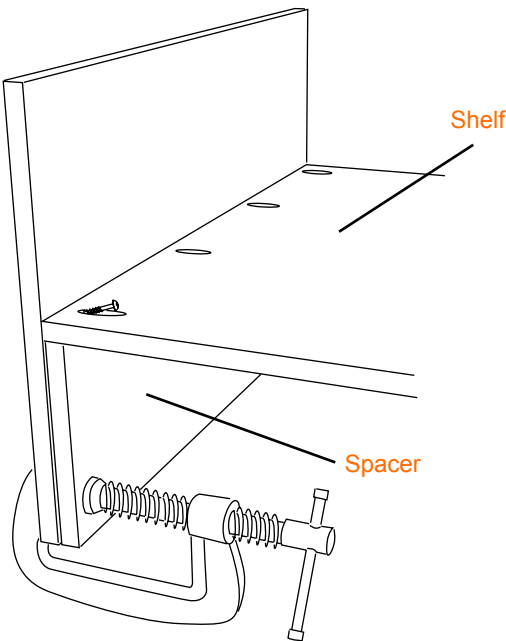
Creating Wood Joints

Creating a 90-degree panel joint

90-degree panel joints are commonly used when building bookshelves and cabinetry.

Follow these instructions to make a 90-degree panel joint.

Step	Action
1	Using a square, draw a line then clamp a straight edge spacer to the line.
2	Butt the shelf up against the spacer edge.
3	Drill the pocket holes where required on the shelf.
4	Use the Square Drive to drive in the screws. Note: As you drive the screws, the shelf will be pulled firmly against the spacer edge.



Creating Wood Joints

Creating edge joins

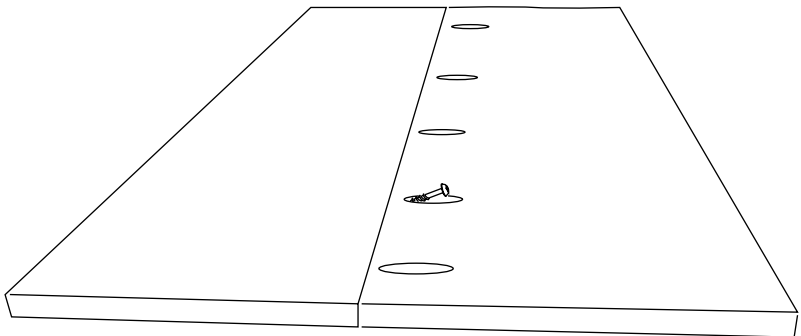
Edge joining is used to join workpieces edge-to-edge, such as when making a table top.

Tip: For best results join workpieces that are no wider than 150mm. This helps prevent the finished piece from bowing.

Follow these instructions to join workpieces edge-to-edge.

Note: You may choose to only drill pocket holes on 1 edge of each workpiece.

Step	Action
1	Drill a pocket hole 50mm in from each end of the workpieces.
2	Drill the remaining pocket holes every 100mm to 200mm.
3	Clamp the workpieces to keep them flush.
4	Use the Square Drive to drive in the screws.



Tips and troubleshooting

Using the Join-A-Jig™ for the first time

Before you use your Join-A-Jig™ for the first time, we recommend you make a few test joints on scrap material.

Drilling tips

Here are some tips when drilling pocket holes:

- ✓ Keep the Join-A-Jig™ free from sawdust, especially around the Step Drill Guide. Build-up of sawdust in and around the Drill Guide can misalign the pocket holes you are attempting to drill.
- ✓ When drilling pocket holes into long or wide pieces of timber use a 35mm high packer aligned to the Join-A-Jig™ to help support the far end of the workpiece.

Gluing your work

You can add extra strength to your joins if needed by applying wood glue between the workpieces you are joining together.

After applying the glue you can immediately carry on with your job, as there should be no need to wait for the glue to dry before using the Join-A-Jig™.

Tips and troubleshooting

Reducing wood splitting

Here are some tips on how to reduce the chances of wood splitting:

- ✓ Always clamp your work securely to reduce the chance of movement and vibration.
- ✓ Always use Join-A-Jig™ Screws. Screws are designed to reduce splitting and to give you the strongest joint.
- ✓ Always use fine thread screws in hardwood. A fine thread displaces less timber when being driven, reducing the chance of splitting.
- ✓ Lubricate the screw with paraffin or bees wax to reduce friction when driving.
- ✓ Before you drive a screw home, screw it part way out then back in again. This removes any wood shavings or sawdust from the hole, reducing the chance of splitting.

Warranty

One (1) year limited replacement warranty statement

If your product becomes defective due to faulty material or workmanship within a period of 1 year from the date of purchase, we warrant to do the following:

- For New Zealand Consumers: We will replace the product with a new product, free of charge, or repair the product at our cost, at our discretion.
- For Australian Consumers: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty conditions

Your warranty is subject to the following conditions:

- The item has not been misused, abused, neglected, altered, modified or repaired by anyone.
- The item has been subjected to fair wear and tear.
- The item has not been used for trade, professional or hire purposes.
- The item has not sustained damage through foreign objects, substances or accident.

What's not covered by warranty

Your warranty does not cover:

- Components that are subject to natural wear and tear caused by normal use in accordance with operating instructions.
- Unauthorised/improper maintenance/handling or overload is excluded from this warranty.

Warranty notes

- For guarantee claims, you will need to submit a proof of purchase in the form of a valid receipt that displays the date and place of purchase.
- This warranty does not replace but is in addition to your statutory rights.
- This warranty does not apply to accessories supplied with the item.
- This warranty applies only to the original purchaser and may not be transferred.
- Replacement items will be covered by the limited warranty for the balance of the warranty period from the date of the original purchase.
- Only the defective product or parts returned to the place of purchase will be replaced under this warranty.

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