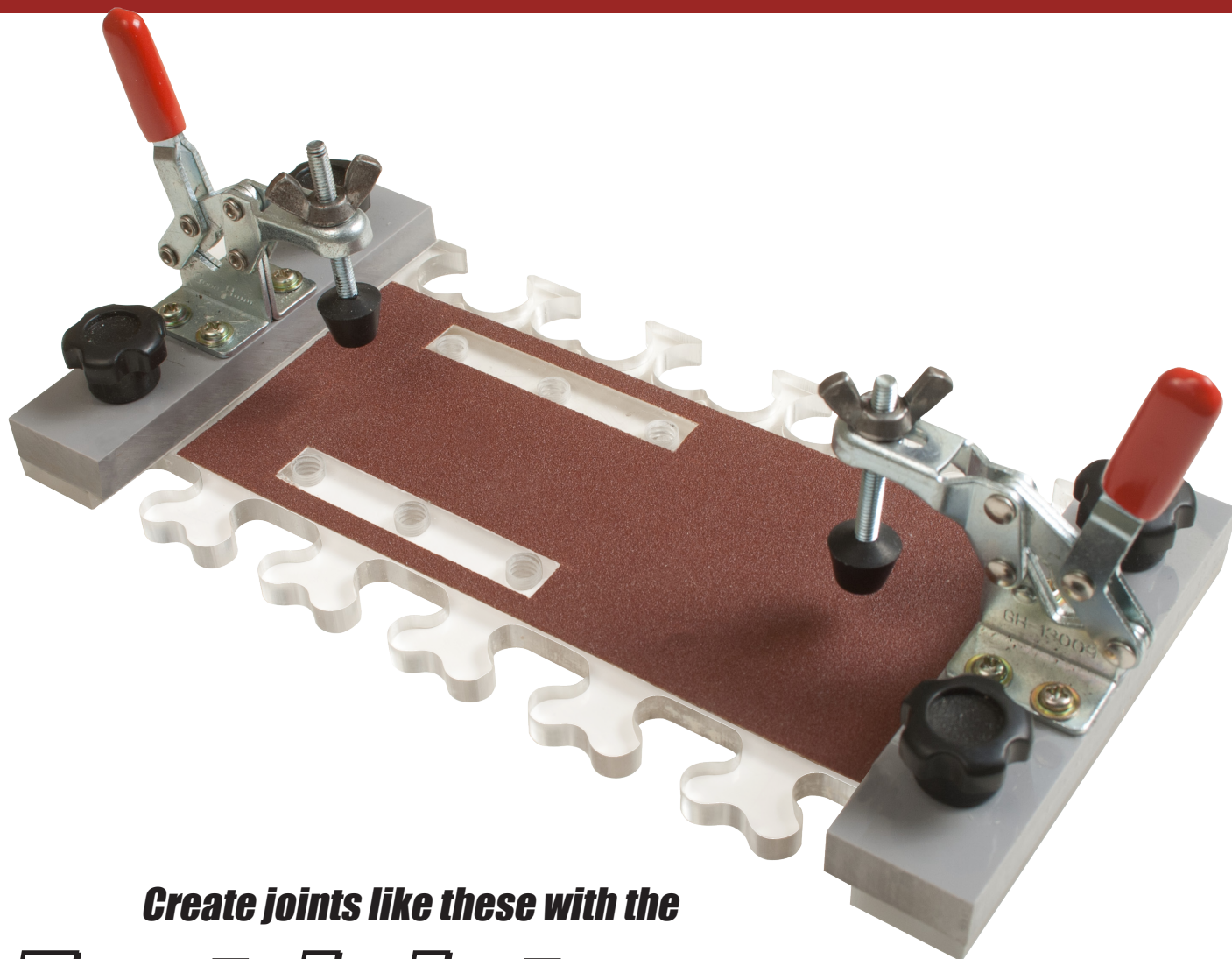


Fast-Joint miniTM

PRECISION JOINERY SYSTEM

Instruction
Manual
Part # 4388 ver 1.0



Create joints like these with the

Fast-Joint mini

Heart



Keys



Locks



Kings Crown



P.O. Box 921487
Norcross GA, 30010

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Fast-Joint Mini™ Instruction Manual

Just like the original Fast-Joint system, the Fast-Joint mini™ precision joinery system takes a simple approach to making unique woodworking joints. We have done the layout for you and milled one template for the male side and the matching female template for the opposite side of the joint. The hardest part about using the Fast-Joint mini™ system is choosing which style template to use. With our Fast-Joint mini™ precision joinery system you can choose and install templates in a matter of seconds, and once you have made your cut for one side, simply rotate the jig 180° to the other side, it couldn't be any easier.

Unlike other template jigs you have seen, our jig will handle 6" stock pieces as well as small hard to handle pieces with an adjustable 3rd hold down toggle. This means the type of projects you can create are virtually endless.

Lets get started making some joints. But first - let's talk about safety.

Read and follow all safety instructions

Caution:

Please read, understand and follow all manufacturers instructions, guidelines and owners manuals that come with your power tools. Fast-Joint mini™ and its subsidiaries assume no liability for accidents or injuries caused by improper use of this product.

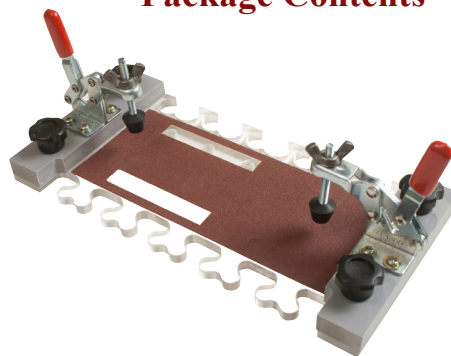
Safety Tips

Creating joints that look like they have been hand cut will add appeal and distinction to any of your projects. To get the best performance and results out of your Fast-Joint mini™ system, we recommend the following tips:

- Always wear safety glasses, hearing protection and dress properly. No loose clothing, hair, draw strings or jewelry that might get caught in moving parts.
- Keep work area clean. Messy work areas invite injuries.
- Make deeper or larger cuts in multiple passes and NEVER use dull cutters. Forcing a deep cut in one pass or using a dull cutter can result in injury. Inspect cutters for damage or chips in carbide.
- Make sure router bit is properly installed in router and do not exceed the recommended rpm
- Keep all safety guards in place.
- Always unplug your tools before changing cutters or making adjustments to the bit or the router.
- Secure you work. Always use at least two clamps to hold your stock to the jig. Make sure the clamps do not interfere with the cutters on the under side of the jig.
- Make sure the jig is clean with no build up or debris for smooth operation.
- This system is designed for use on router tables only, do not use with a free hand router set-up.
- Follow all manufacturer safety guidelines provided with you router.
- Support longer stock properly so that it does not shift or change the position of the jig.

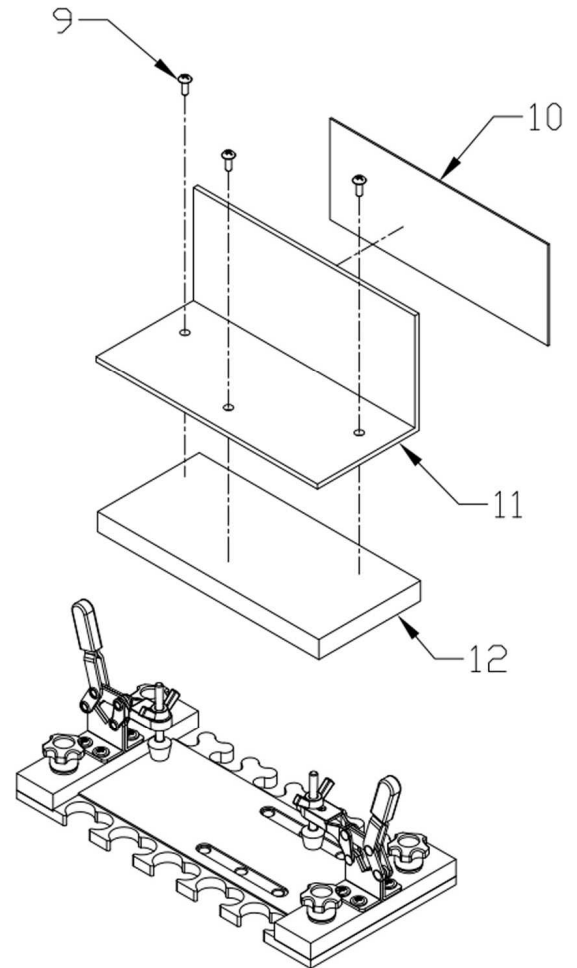
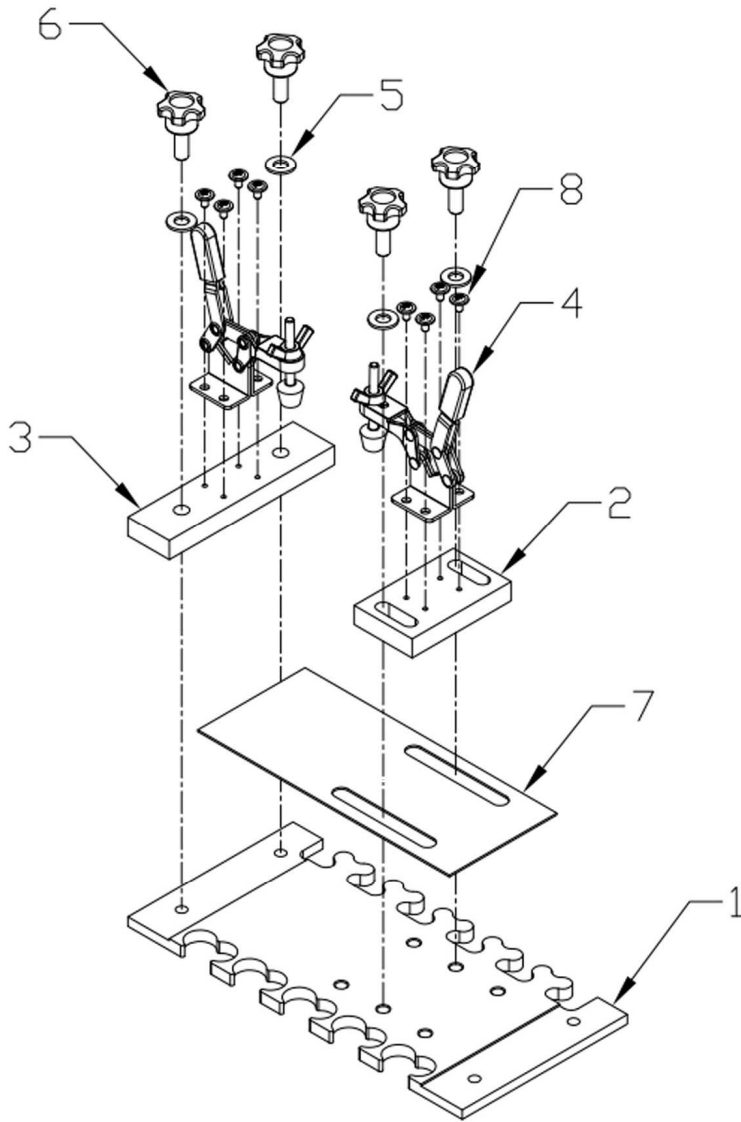
Package Contents

1 ea. heart template
1 ea. kings crown template
1 ea. key template
1 ea. lock template
3 ea. toggle clamps
2 ea. bushings
1 ea. bushing spring washer
1 ea. 3/16" up cut spiral router bit
2 ea. spring clamps



1 ea. right angle fence
1 ea. abrasive strip for right angle fence
4 ea. slotted abrasive strips
1 ea. MDF backer board
1 ea. set up block
1 ea bushing lock nut
all necessary hardware for assembly is also included

Fast-Joint mini™



Part #	Part Description	Quantity
1	Heart Template	1
2	Position Set-up Block	1
3	Template Alignment Blocks	2
4	Toggle Clamps	3
5	Mini Stud Washers	6
6	Mini-Knobs with Studs	6
7	Stamped Non-Slip Abrasive Strip	1
8	Woodscrews	12

Part #	Part Description	Quantity
9	Woodscrews	3
10	Non-Slip Abrasive Strip	2
11	Aluminum Angle Fence	1
12	MDF Sub Plate	4
Not Shown	Lock Template	1
Not Shown	Key Template	1
Not Shown	Kings Crown Template	1

Fast-Joint mini™ Assembly

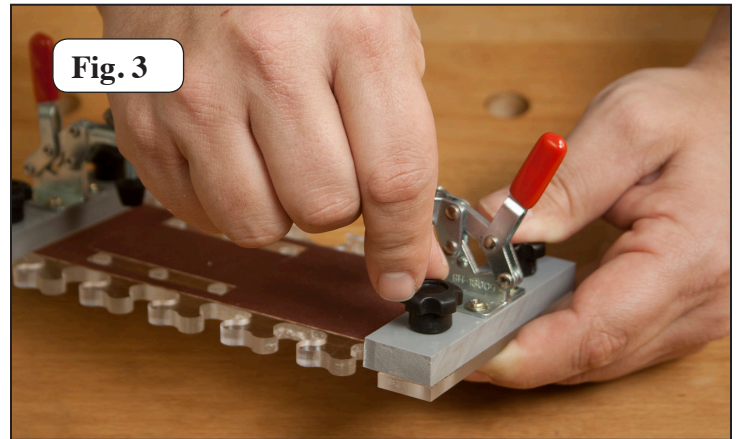
Step 1 - Installing Sandpaper:

Peel the backing off the self adhesive stamped sandpaper strip (part #7). Place the strip on to the raised side (notched side up) of one of the templates (we are using the heart template, part #1). Align the sandpaper strip on to one of the templates. Make sure the the cutout does NOT cover any of the three holes. (See Fig. 1).



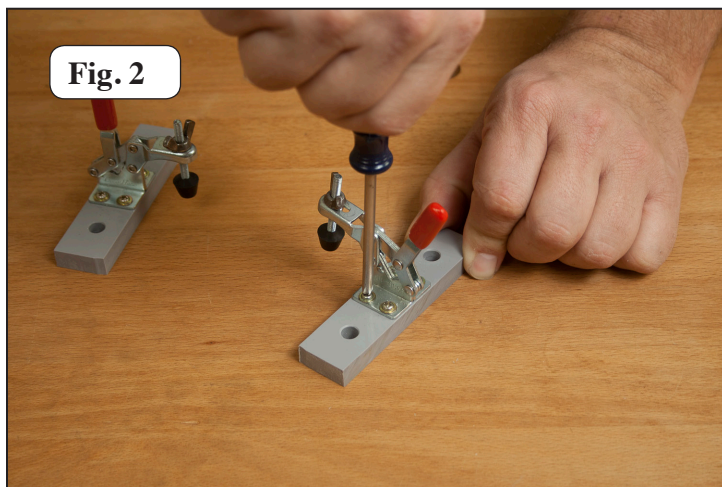
Step 3 - Installing Alignment Blocks:

Make sure the rubber foot of the toggle faces to the inside of the template. Install the template alignment blocks and toggle onto the template using the mini studded knobs (part #6) See Fig. 3. Make sure the alignment block is pressed up against the milled recessed edge of the template. Secure with mini studded knobs. Doing this squares the template to the alignment blocks. Repeat this process on the opposite side.



Step 2 - Assemble Alignment Blocks:

First, assemble the rubber feet onto the three toggle clamps. Using four woodscrews (part #8), one hold down toggle (part #4) and one template alignment block (part #3), install the woodscrews with washers through the toggle mounting holes (See Fig. 2).



Using the four remaining woodscrews (part #8) fasten the toggle to the position alignment block (part #2) (See Fig. 4).



Shop Notes:

The non-slip sandpaper is installed on our jig to minimize movement of the stock. Over time the strip will have to be replaced.

Temporarily secure the third toggle (mounted) into any of the threaded holes in template, using the two mini stud knobs (part #6) and washers (part #5) (See Fig. 5).

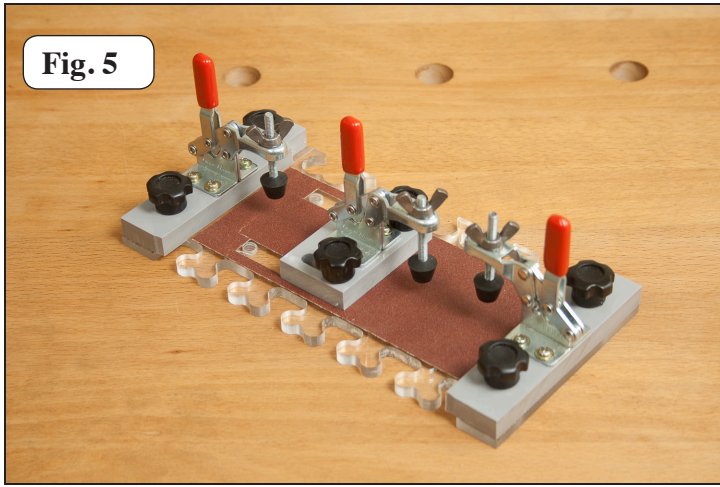


Fig. 5

Shop Notes:

The third toggle is used for any stock that is approx. 2" to 4" wide to prevent lifting and provide even, solid holding pressure.

Step 4 - Assemble Right Angle Fence

The right angle fence used with female template side of the jig and is attached to the MDF sub-plate (part 12). Peel the backing off the self adhesive sandpaper strip (part #10). Place the strip on the outside surface of the aluminum angle fence (part #11) that does not have pre-drilled holes (See Fig. 6)

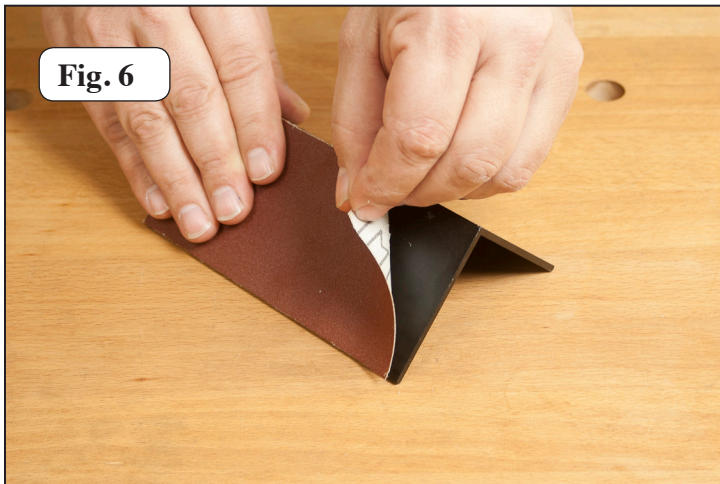


Fig. 6

It is important that the edge of the MDF sub-plate is flush with the non-slip sandpaper to prevent the stock from rocking in the jig. A simple way to do this is to place the right angle fence on a flat surface with the sandpaper side facing down. Stand the MDF sub-plate up against the right angle fence, and align the two outer edges to the right angle fence. Temporarily clamp the

MDF sub-plate and the right angle fence together with a c-clamp (See Fig. 7).



Fig. 7

With the components clamped together and flush, use the three woodcrews (part #9) to fasten the right angle fence to the MDF sub-plate (See Fig. 8).

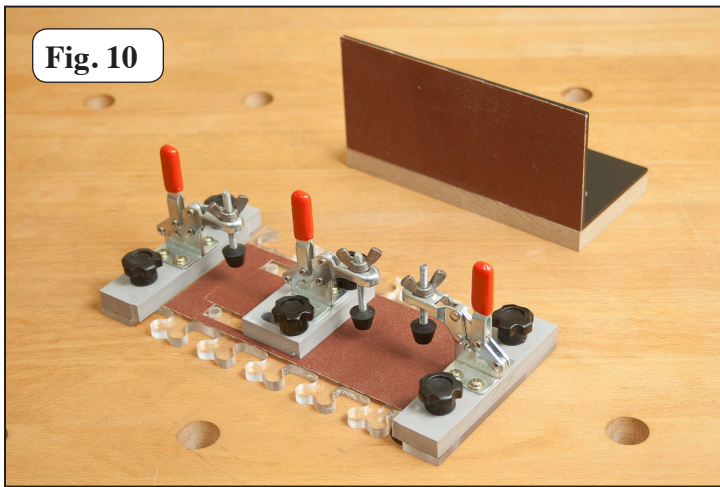


Fig. 8

Once secured, remove the C-clamp and your final assembly of the right angle fence and MDF sub-plate should be flush and look like the photo shown below in **Fig. 9**.



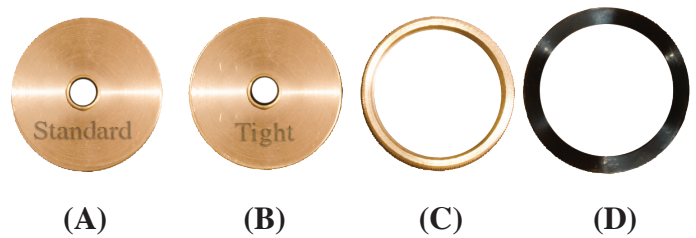
Your completed Fast-Joint mini™ jig system and right angle fence should look like the photograph shown below in **Fig. 10**.



Router Set-up

Included with your Fast-Joint mini™ system are two different size brass bushings that will fit into most router plates with a 1-1/4" opening with a rabbeted off-set of 1-3/8". One bushing is marked "standard" (A), which is used with the 3/16" upcut spiral bit on most of the templates. The second bushing is marked "tight" (B) which is used with the 3/16" upcut spiral when you would like to tighten the joint. A locking nut (C) and a spring washer (D) is also included with your system. (See **Fig. 11**).

Fig. 11



Shop Notes:

In order for the system to work, it is imperative that your router bits are centered in the brass bushings. If you do not have your router centered, it will throw the joint off and possibly allow the cutters to damage the brass bushings.

Centering Your Router On To The Plate:

Insert the standard bushing into your router plate, next place the spring washer and locking nut on the underside and tighten locking nut securely. With your router un-plugged, insert the 3/16" upcut spiral router bit and secure router collet. Raise the router with bit through the hole in the brass bushing. Using your hand, reach under the table and spin the router bit slowly, checking the router bit for alignment (See **Fig. 12**). The router bit should have equal spacing all the way around the inside of the brass bushing. If the router bit is touching the side of the brass bushing, or is off-set to one side, you will need to re-align the router to the center of the router plate and bushing.

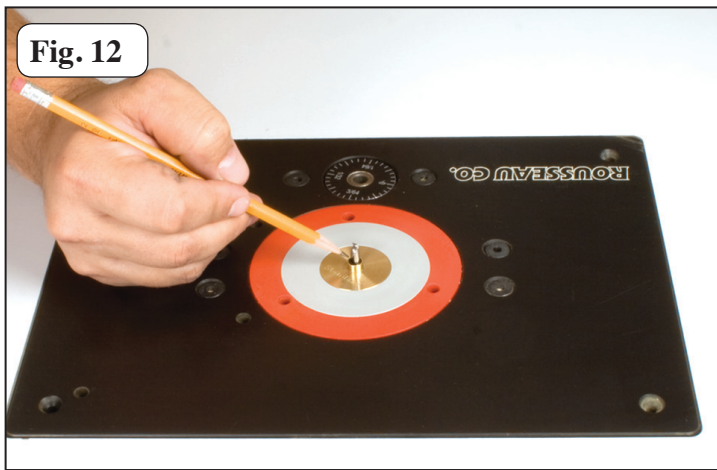


Fig. 12

This is what your Fast-Joint mini™ system should look like when using the 3/16" router bit with Heart templates. (See Fig. 13).

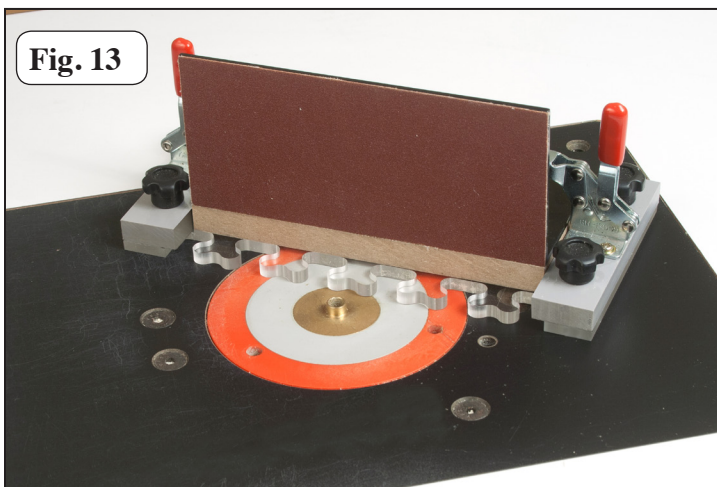


Fig. 13

Stock Preparation

When cutting your joints with the Fast-Joint mini™ system, make sure your stock is flat, and that the edge you will be milling is straight. The unique feature about this system is, you can cut any length. Your Fast-Joint mini™ system will work with the same thickness stock on both sides of the joint, or use one thickness piece of stock on one side of the joint and use a different thickness piece of stock on the other side of the joint. You can even cut angle joints with the Fast-Joint mini™ system. Now that we have assembled and squared the Fast-Joint mini™ system, we are ready to cut some joints. Note: it's a good idea to make test cuts on sample stock before making your actual cut.

Shop Notes:

Each of the templates that come with the Fast Joint system are spaced differently. When working on a project, check your stock width to see if the pattern will align evenly on both sides of the stock when placed up against the template alignment block. If the stock is not equally spaced on both edges, use a spacer block before starting your cuts.

(refer to "Centering Your Material", page 17)

Four Sided Box

The type of joint we will be making is referred to as a half blind joint. Which means, you will only see the joints on the sides of the box. The front and back of your box must be made from a minimum of 3/4" stock. The sides of your box can be made from 1/4" to 3/4". In the following example we will be building a 10" square - four sided box using the heart templates. The front and back of the box will be made from 3/4" x 10" long stock using the female template and the sides of the box will be made from 3/8" x 9-3/4" stock using the male template. Use the same species of stock, or for contrast, use a darker type of wood on the sides of the box and a lighter type of wood on the front and back of the box.

Set-up the router bit height:

Now we have to set the height of the bit. The bit height is always set from the thickness of the male stock (sides of the box). We are using 3/8" thick stock on the sides of our project, which means the bit needs to be set at a cutting height of 3/8" above the template thickness. You can use a ruler to do this, or an easier way to do this is to use the thickness of your stock to set the height of the bit. Using your Fast-Joint mini™ system with the Heart templates installed along with your standard bushing, 3/16" router bit, and router installed into your router table, slide your Heart template against the brass bushing. Place your stock on top of the Fast-Joint mini™ system aligning one edge with the edge of the template. Raise the bit until it is flush with the top of your stock and lock the router bit height in place (See Fig. 14).

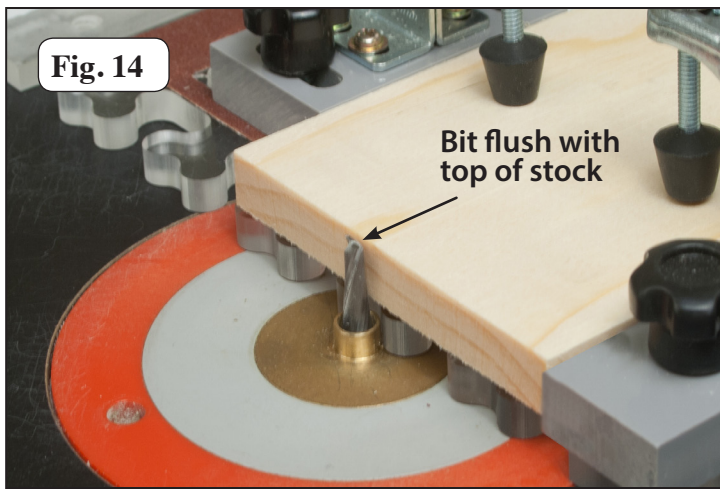


Fig. 14

Bit flush with top of stock

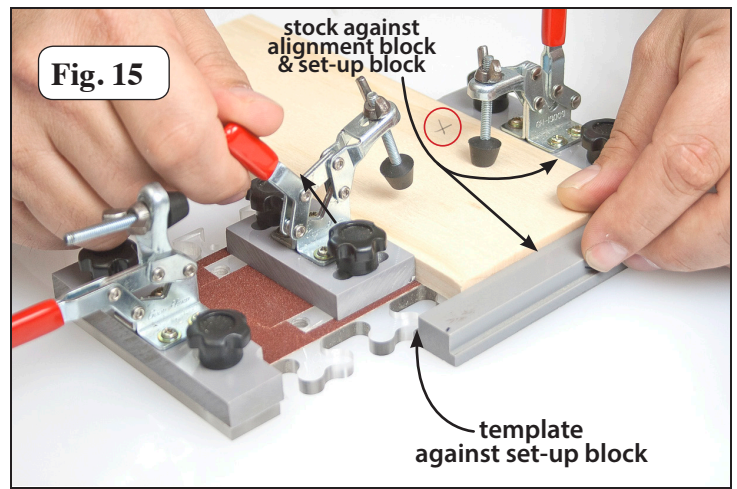


Fig. 15

stock against alignment block & set-up block

template against set-up block

Set-up For The Sides of the Box:

Part of what makes the Fast-Joint mini so easy to use is the machined set-up block. This block allows you to easily position your stock, to the off-set distance between the router bit cutting surface and the outer edge of the brass bushing. We will be making the cuts on the side of our box first using the male Heart template on the jig. For this cut you can place the stock flat on either the left side or the right side of your jig. Place a reference mark on side edge of the stock (X). This edge must always be placed up against the template alignment block for the joint to align properly. Adjust the rubber feet on the toggles for the thickness of the stock you are cutting. Your toggle clamp should produce a slight snap when engaged. If the toggle is too tight it may cause the jig to flex. If you are cutting smaller stock, add the third toggle to the jig and adjust the third toggle for the thickness and width of stock if needed. With your stock on the jig and your reference mark facing the template alignment block, place your gray set-up block with the wide side facing down on your router table. Slide the block up against the edge of the male Heart template. While holding the set-up block against the edge of the Heart template, slide your stock up against your template alignment block. Next, slide your stock forward until it contacts the set-up block and secure the stock in place with toggle clamp. (See Fig. 15).

Shop Notes:

Always use a minimum of two clamps when securing your stock to the jig. This prevents the material from moving. Not doing so may result in a sloppy joint or even injury.

Making The Cut:

The first time you use each style of template, it is perfectly normal to cut into the template alignment blocks. The template alignment blocks are made from a durable polyethylene plastic, and should last for many projects. At the point that they no longer provide support, you can reverse them and use the outer edges or replace them with new ones. We start our cut approximately 1/4" in from the inside edge of the template alignment block. Make sure the router bit is not contacting the surface of the stock or any part of the Fast-Joint mini jig before turning on your router. Turn the router on. Firmly grasp the jig at both ends and slide the jig forward until the template contacts the bushing (See Fig. 16).

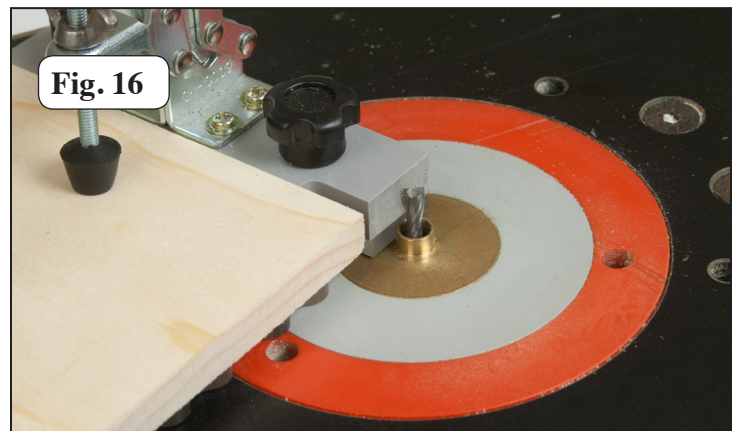
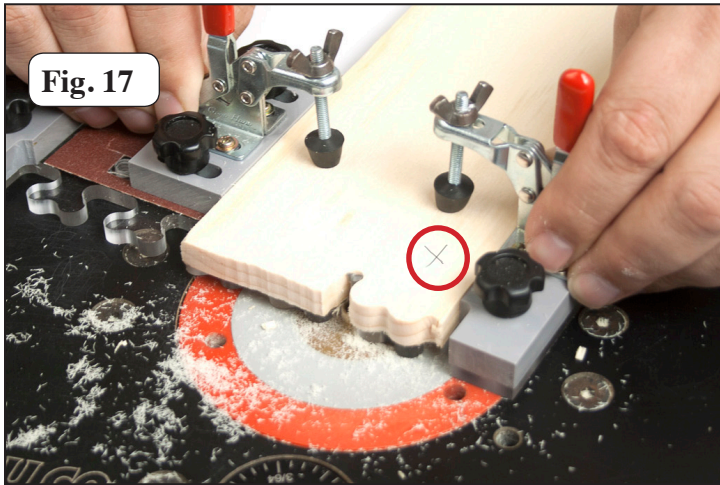


Fig. 16

Caution

When the first cut is made into the plastic template alignment blocks, the router bit may have a tendency to grab the jig and cut excessively.

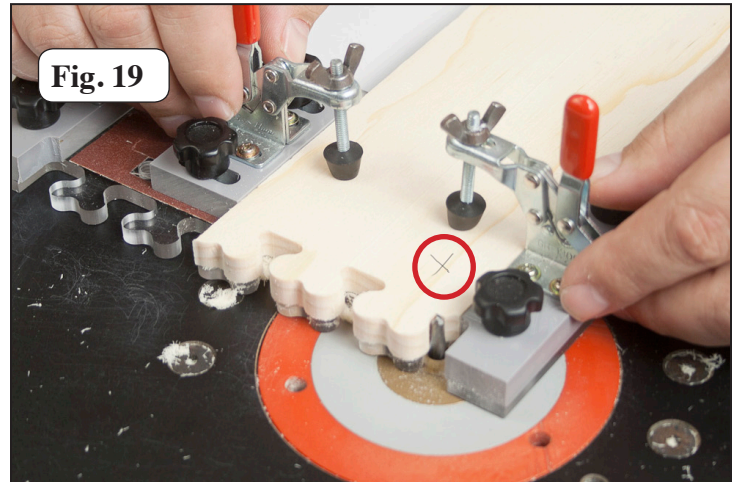
Once contact is made, slowly guide the profile of the template against the bushing and router bit so that your material is cut in the shape of the template, working from the outer edge of the jig to the inside edge of your stock. (See **Fig. 17**).



Shop Notes:

Always make sure that no chips or saw dust are caught between the template and the bushing. If there is any debris, it may result in poorly fitting joints.

Now that one end of the box is cut, you will now flip the stock, keeping your reference mark (X), against the template alignment block, and following the same instructions shown in "**Fig. 15**" on page 8. for set-up. Once the stock is properly set-up and secure in the jig, make the cut (See **Fig. 19**). After making this cut, repeat this entire process on the other side of your box.



After the first cut is made, you should make multiple passes to make sure all the material has been removed, working from the outer edge of the jig to the inside edge of your stock. Your finished cut should resemble the photograph shown below in **Fig. 18**.



Shop Notes:

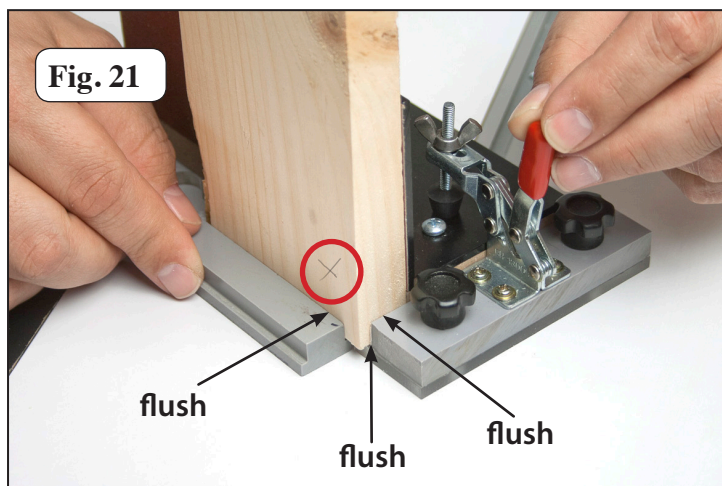
Always remember to keep the reference mark (X) you made against the template alignment block. Failing to do so may result in un-even joints.

Your completed side pieces should resemble the photograph shown in **fig. 20**.



Set-up For The Front & The Back of Box

Now that the sides of our box are complete we need to cut the front and back. The height of the router bit does not change for this cut. We will be making the cuts on the front and back of our box using the female Heart template on the jig with the right angle fence. If you were using the third toggle, you will now remove it from the jig. Place the right angle fence on to the jig between the template alignment blocks, with the non-slip abrasive strip facing the female side of the jig. Adjust the rubber feet on the toggles for the thickness of the MDF sub-plate. Your toggle clamp should produce a slight snap when engaged. If the toggle is too tight it may cause the jig to flex. Place a reference mark on the side edge of the stock (X). This edge must always be placed up against the template alignment block for the joint to align properly. Place the front of your box vertically, on the jig, in front of the right angle fence, with the reference side against the template alignment block. With your stock on the jig and your reference mark facing the template alignment block, place your gray set-up block with the wide side facing down on your router table. Slide the block up against the edge of the female Heart template. While holding the set-up block against the edge of the Heart template, slide the right angle fence and stock up against your set-up block until flush. Secure the MDF sub-plate with toggle clamps (See Fig. 21).



Now that the right angle fence is secure, slide the reference side of the stock against the template alignment block. Clamp the stock to the right angle fence using the two spring clamps that came with the Fast-Joint mini™ system (See Fig. 22).

Shop Notes:

If you are cutting long stock, it is recommended to clamp your stock to the right angle fence using C-clamps or F-clamps.



Caution

When clamping your stock to the right angle fence, always make sure that the clamps do not interfere with the cutters. Doing so may result in damaging your cutters or even injury.

Making The Cut:

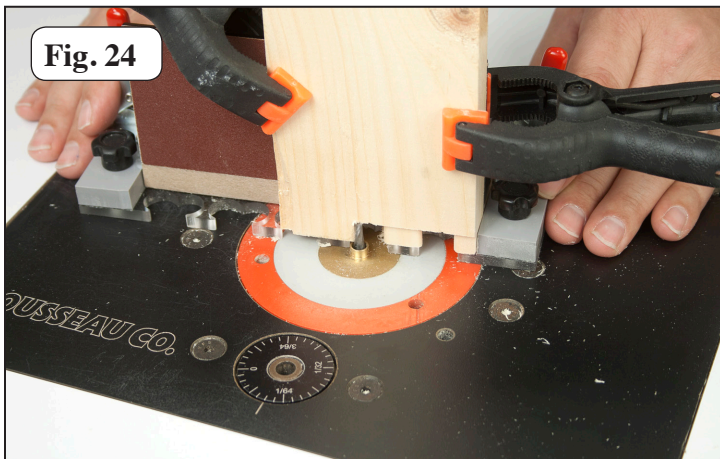
The first time you use each style of template, it is perfectly normal to cut into the template alignment blocks. The template alignment blocks are made from a durable polyethylene plastic, and should last for many projects. At the point that they no longer provide support, you can reverse them and use the outer edges or replace them with new ones. We start our cut approximately 1/4" in from the inside edge of the template alignment block. Make sure the router bit is not contacting the surface of the stock or any part of the Fast-Joint mini™ jig before turning on your router. Turn the router on. Firmly grasp the jig at both ends and slide the jig forward until the template contacts the bushing (See Fig. 23).



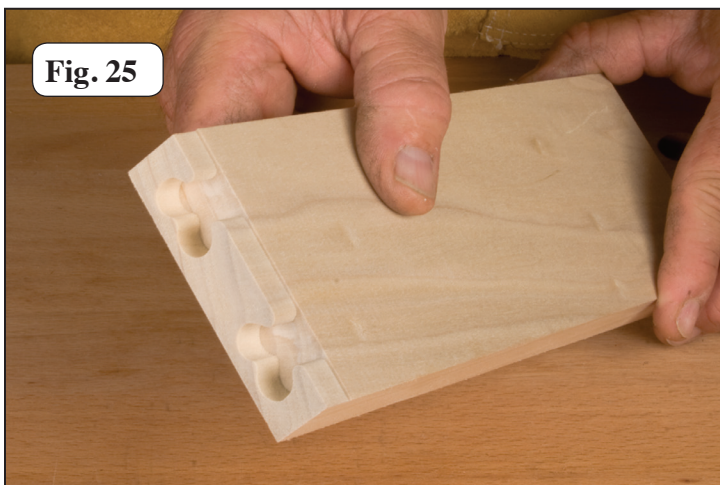
Caution

When the first cut is made into the plastic template alignment blocks, the router bit may have a tendency to grab the jig and cut excessively.

Once contact is made, slowly guide the profile of the template against the bushing and router bit so that your material is cut in the shape of the template, working from the outer edge of the jig to the inside edge of your stock. (See Fig. 24).



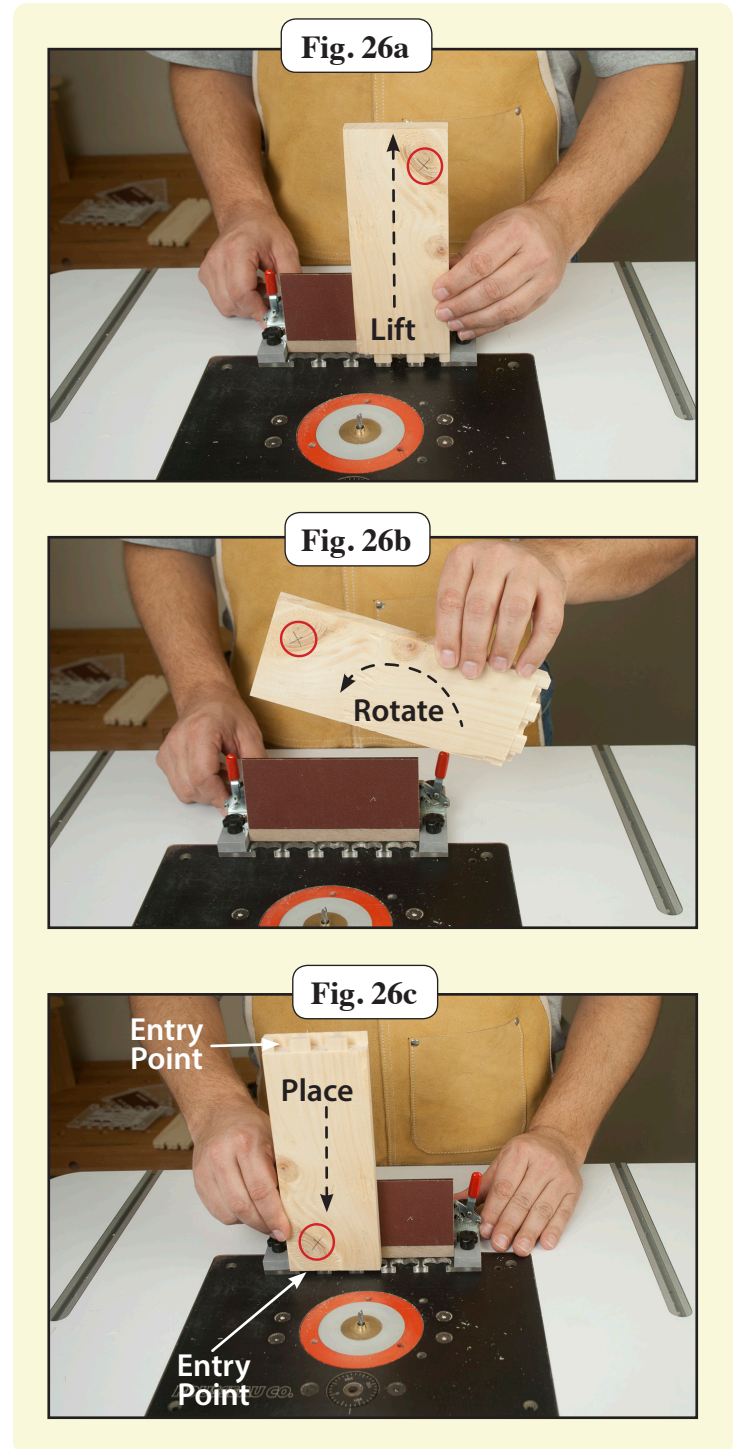
After the first cut is made, you should make multiple passes to make sure all the material has been removed, working from the outer edge of the jig to the inside edge of your stock. Your finished cut should resemble the photograph shown below in Fig. 25.



Shop Notes:

Always make sure that no chips or saw dust are caught between the template and the bushing. If there is any debris, it may result in poorly fitting joints.

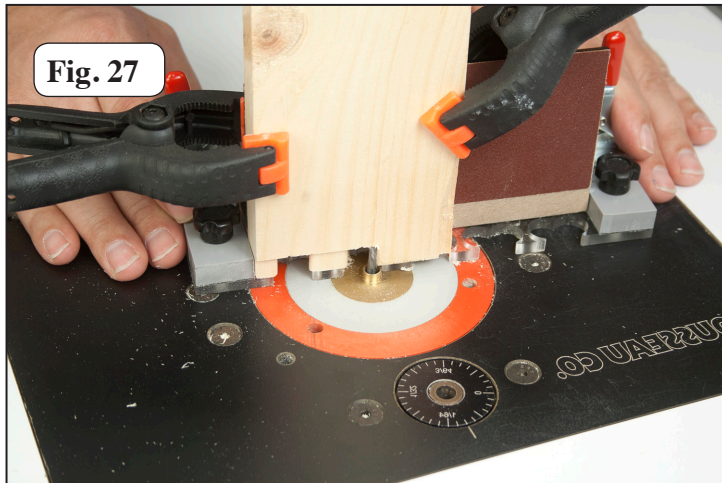
Now that one end of the box is cut, you will now cut the opposite end of the stock using the same reference mark. In order to do this, you will place the opposite end of the stock vertically on the other side of the jig, in front of the right angle fence, with the reference (X) side against the opposite template alignment block (See Fig. 26a, 26b, and 26c). The reason why we move to the other side of the jig, is to have the same entry point on the opposite side of the stock we are cutting, so that all four sides of the box will fit together properly (See 26c)



Shop Notes:

Always remember to keep the reference mark you made against the template alignment block. Failing to do so may result in un-even joints.

Once in place following the same instructions shown in "Fig. 22" on page 10. for set-up. Once the stock is properly set-up and secure in the jig, make the cut (See Fig. 27). After making this cut, repeat this entire process on the back side of your box.

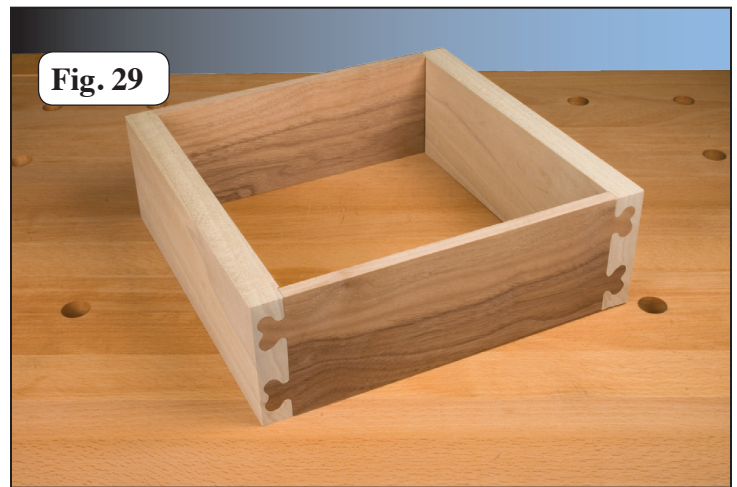


Your completed front and back pieces should resemble the photograph shown below in fig. 28.



Assemble the box:

Assemble all four sides of the box. Your completed box should resemble the photograph shown below in Fig. 29. The joints should have a snug - sliding fit. If you have to force the joint together with a mallet, it may result in splitting your stock, as well as forcing the glue out of the joint. To loose of a fit may produce wobbling and a weak joint. If satisfied with the fit of your joints, glue, clamp and finish your project. If your joint needs adjusting see page 20 "Fast-Joint mini Tips".



Follow these same basic instructions for cutting the Hearts template, Keys template, Locks template and Kings Crown template.

In the Following Sections...

...we will detail multiple ways to change the look of your joints by making a few simple adjustments to the setup and cutting process. The images shown in these sections are images of the original Fast-Joint system. The Original Fast-Joint and the Fast-Joint mini both work in the exact same way, so the instructions for these procedures are identical. The only difference is the maximum width of stock you are able to use with the Fast-Joint mini is smaller than the original Fast-Joint.

Recessed Style Joint

Recessed style joints are an easy way add depth to the joint. What some woodworkers like to do with this joint is, after assembly slightly soften the female side of the joint with sandpaper to give it a country feel. This style of joint we will be making is exactly the same as the four sided box we just made with one exception. When we cut the front and back pieces of our box, we raise the height of the router bit. We will be using the Heart templates in this example, the front and back will be made from 3/4" stock, the sides will be made from 3/8" stock and will be recessed into the front and back by 1/4".

Set-up For The Sides of The Box:

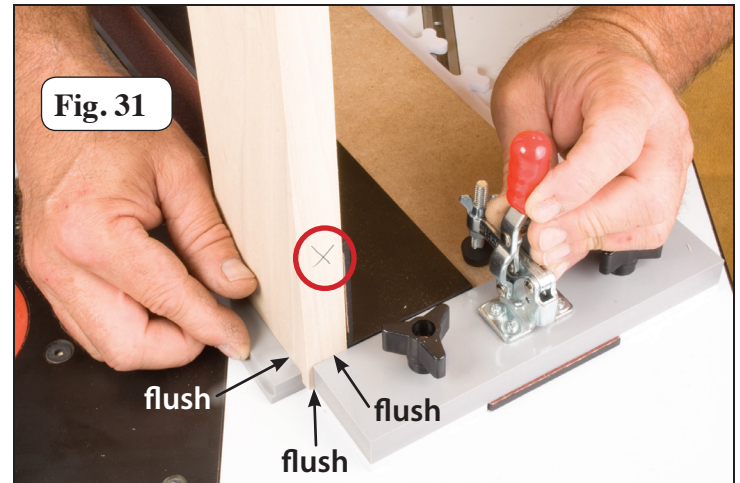
Follow the instructions outlined on page 7 starting with "Set Up Router Bit Height" all the way through to and including pages 8 & 9 "Making The Cut". Your two side pieces should resemble shown below in Fig. 30.



Set-up For The Front & The Back of Box

Now that the sides of our box are complete we need to cut the front and back. We need to raise the height of the router bit 1/4". Your final height of your router bit should now be approximately 5/8". We will be making the cuts on the front and back of our box using the female Heart template on the jig with the right angle fence. If you we're using the third toggle, you will now remove it from the jig. Place the right angle fence on to the jig between the template alignment blocks, with the non-slip abrasive strip facing the female side of the jig. Adjust the rubber feet on the toggles for the thickness of the MDF sub-plate. Your toggle clamp should produce a slight snap when engaged. If the toggle is too tight it may cause the jig to flex. Place a reference mark (X) on the side edge of the stock. This edge must always be placed up against the template alignment block for the joint to align properly. Place the front of your box vertically, on the jig,

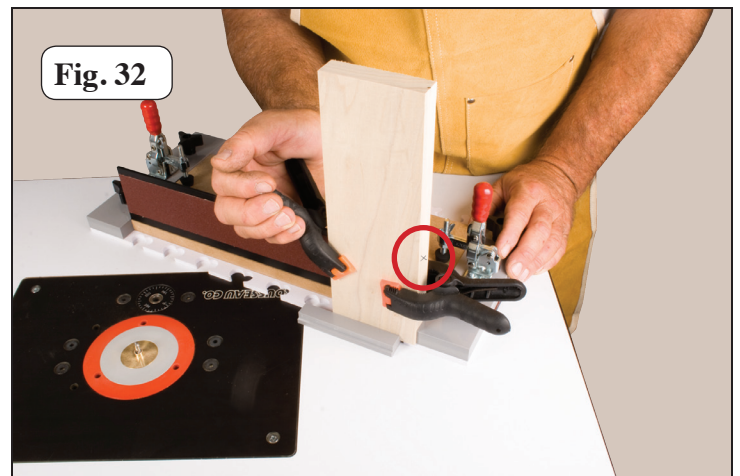
in front of the right angle fence, with the reference side against the template alignment block. With your stock on the jig and your reference mark facing the template alignment block, place your gray set-up block with the wide side facing down on your router table. Slide the block up against the edge of the Heart template. While holding the set-up block against the edge of the Heart template, slide the right angle fence and stock up against your set-up block until flush. Secure the MDF sub-plate with toggle clamps (See Fig. 31).



Now that the right angle fence is secure, slide the reference side of the stock against the template alignment block. Clamp the stock to the right angle fence using the two spring clamps that came with the Fast-Joint mini system (See Fig. 32).

Shop Notes:

If you are cutting long stock, it is recommended to clamp your stock to the right angle fence using C-clamps or F-clamps.



Making The Cut:

With your stock secured in the jig, follow all of the instructions outlined on page 10 "Making The Cut" all the way through to page 12. Your completed front and back pieces should resemble the photograph shown below in **Fig. 33**.



Fig. 33

Assemble the box:

Assemble all four sides of the box. Your completed box should resemble the photograph shown below in **Fig. 34**. The joints should have a snug - sliding fit. If you have to force the joint together with a mallet, it may result in splitting your stock, as well as forcing the glue out of the joint. To loose of a fit may produce wobbling and a weak joint. If satisfied with the fit of your joints, glue, clamp and finish your project. If your joint needs adjusting see page 20 "Fast-Joint mini Tips".



Fig. 34

Follow these same basic instructions for cutting the Hearts template, Key template, Heart Wave template, Large Key template, Lock template, Wave template, Lolly-pop template, Arrowhead template and Teddy bear template.

Three Dimensional Joint

Three Dimensional style joints will extend the joint through the front and back of the box. This will give your joint a pronounced look. This style of joint we will be making is exactly the same as the four sided box we just made with one exception. The front and back of the box will be made from 1/2" thick stock. We will be using the Heart templates in this example, the front and back will be made from 1/2" stock, the sides will be made from 3/8" stock and will be protruding out of the front and back by 1/4".

Set-up For The Sides of The Box:

Follow the instructions outlined on page 7 starting with "Set Up Router Bit Height" all the way through and including pages 8 & 9 "Making The Cut". Your two side pieces should resemble shown below in **Fig. 35**.



Fig. 35

Set-up For The Front & The Back of Box

Now that the sides of our box are complete we need to cut the front and back. Follow the instructions outlined on page 10 starting with "Set-up For The Front and Back Of The Box" all the way through to and including "Making The Cut" on page 10. Your two front and back pieces should resemble the photograph shown in **Fig. 36**

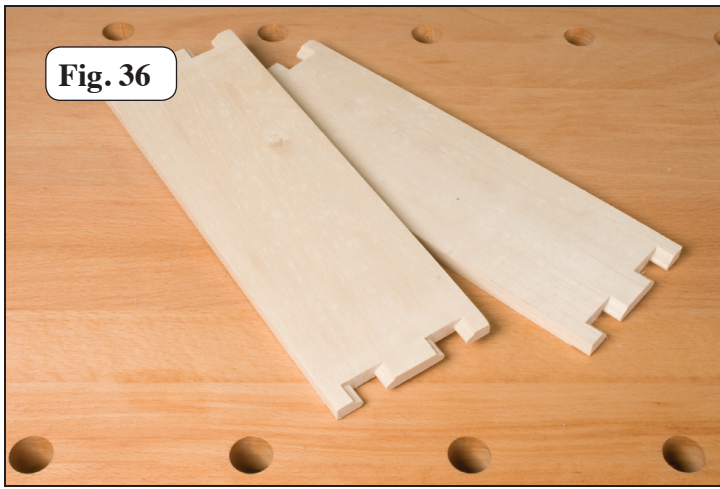


Fig. 36

Shop Notes:

When making a three dimensional cut, the router will cut into a portion of your MDF sub-plate of the right angle fence. The MDF sub-plate is a sacrificial component and can be replaced as needed.

Assemble the box:

Assemble all four sides of the box. Your completed box should resemble the photograph shown below in **Fig. 37**. The joints should have a snug - sliding fit. If you have to force the joint together with a mallet, it may result in splitting your stock, as well as forcing the glue out of the joint. To loose of a fit may produce wobbling and a weak joint. If satisfied with the fit of your joints, glue, clamp and finish your project. If your joint needs adjusting see page 20 "Fast-Joint mini Tips".



Fig. 37

Follow these same basic instructions for cutting the Hearts template, Key template, Heart Wave template, Large Key template, Lock template, Wave template, Lolli-pop template, Arrowhead template and Teddy bear template.

End To End Joints

End to end style joints are generally used as a decorative type of joint. Most woodworkers will use two different species of wood when making this kind of joint. This style of joint we will be making is exactly the same process as the four sided box we just made with a couple of exceptions. The first exception is, both sides of the joint are made from the same thickness stock. The second exception is, the female side of the joint is cut laying flat on the jig. We will be using the Heart templates in this example, both the left and the right side of this joint will be made from 3/8" stock.

Set-up For The Male Side of The Joint:

Follow the instructions outlined on page 7 starting with "Set Up Router Bit Height" all the way through and including pages 8 & 9 "Making The Cut". The male side of your stock should resemble the photo shown below in **Fig. 38**.

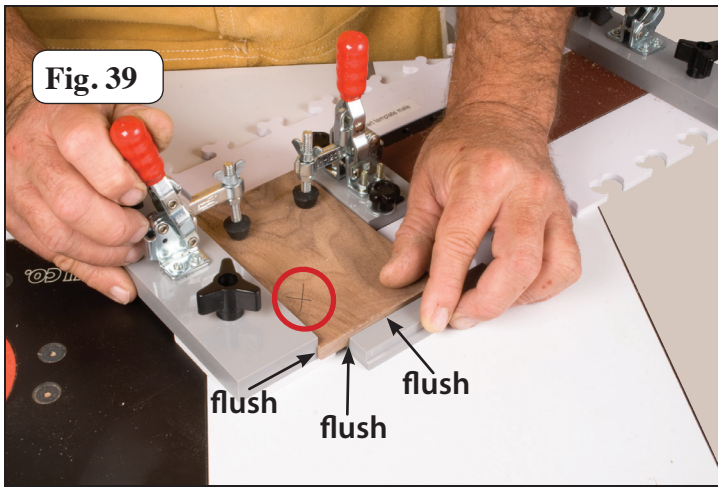


Fig. 38

Set-up For The Female Side of The Joint:

Now that the male side of our joint is complete we need to cut the female side of the joint. The height of the router bit does not change for this cut. For this cut you can place the stock flat on either the left side or the right side of your jig. Place a reference mark (X) on side edge of the stock. This edge must always be placed up against the template alignment block for the joint to align properly. Adjust the rubber feet on the toggles for the thickness stock your are cutting. Your toggle clamp should produce a slight snap when engaged. If the toggle is to tight it may cause the jig to flex. If you are cutting smaller stock, add the third toggle to the jig and adjust the third toggle for the thickness and width of stock if needed. With your stock on the jig and your reference mark facing the template alignment block, place your gray set-up block with the wide side facing down on your router table. Slide the

block up against the edge of the female Heart template. While holding the set-up block against the edge of the Heart template, slide your stock up against your template alignment block. Next, slide your stock forward until it contacts the set-up block and secure in place with toggle clamp (See Fig. 39).



Follow all of the instructions outlined on pages 10 through 12 "Making The Cut". The female side of your stock should resemble shown below in Fig. 40



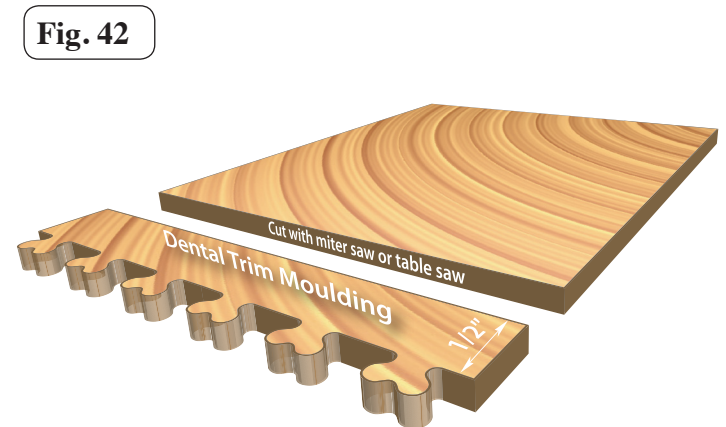
Assemble The Joint:

Assemble your joint. Your completed end to end joint should resemble the photograph in Fig. 41. The joints should have a snug - sliding fit. If you have to force the joint together with a mallet, it may result in splitting your stock, as well as forcing the glue out of the joint. To loose of a fit may produce wobbling and a weak joint. If satisfied with the fit of your joints, glue, clamp and finish your project. If your joint needs adjusting see page 20 "Fast-Joint mini Tips".



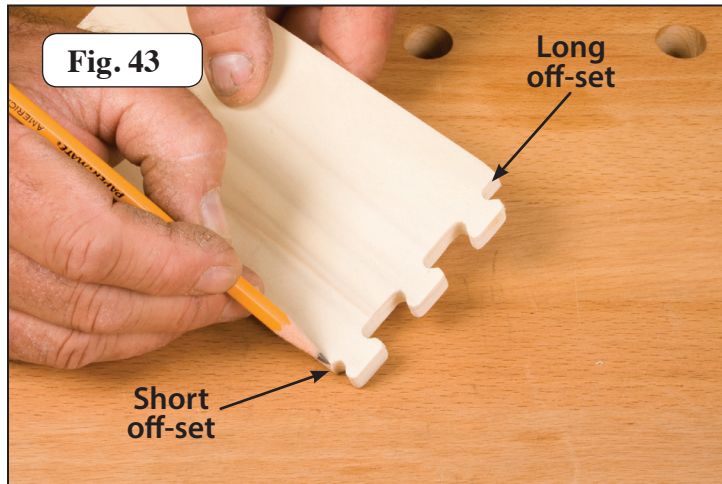
Decorative Dental Moulding

The Fast-Joint mini™ is capable of producing all types of decorative types of moulding. You can use either the male template or the female template for this type of moulding. To make this type of cut, the stock is always placed flat on to the platform of the jig, regardless of which template you are using. Use the same instructions on page #8 "Set-up For The Sides Of The Box". Once completed, simply cut-off the end of your stock with a miter saw or table saw to the width of moulding you desire (See Fig. 42).

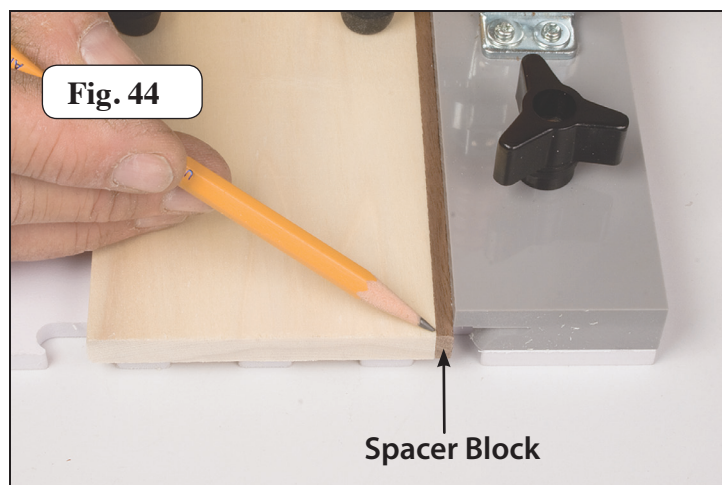


Centering Your Material

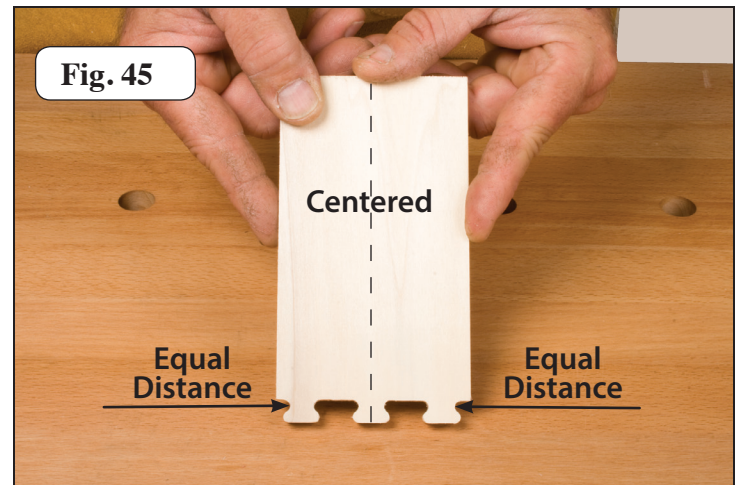
Creating a centered joint with the Fast-Joint mini™ system is a simple process. We will be using the Key template in this example. If your stock does not perfectly center (See **Fig. 43**) follow instructions below.



Place your stock to be cut flat on the Fast-joint™ jig up against a template alignment block. Slide your stock away from the template alignment block until the Keys are centered underneath your stock and clamp the stock in place with toggle(s). Next, we will make a "spacer block". With stock secured, measure the distance from the template alignment block to the edge of your stock. Once distance is measured, rip a piece of stock to the width you just measured and at least as long as the your stock piece. This will be our "spacer block". Place the "spacer block" between the template alignment block and the your stock piece as shown in **fig. 44** with the stock piece now centered to the template. Make the cut.



Your completed centered piece should resemble the photograph shown below in **fig. 45**.

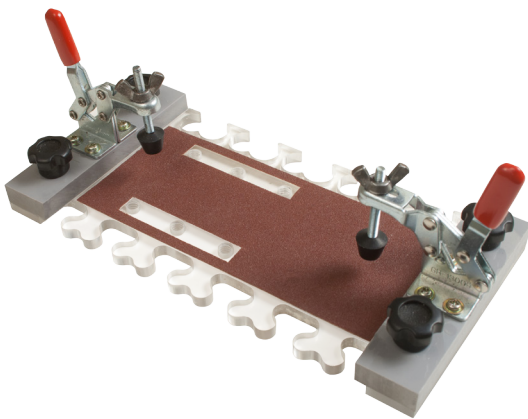


Shop Notes:

If you're using a spacer block for alignment, you must use on both the male and female cuts in order for the stock to align properly.

Fast-Joint mini™ Joining System

The Fast-Joint mini™ Precision Joinery System is one of the most versatile jigs available. In this manual we have outlined several different types of joints as well as thickness stock that can be made. The possibilities that can be applied are virtually endless. Thank you for your purchase and we hope you enjoy your brand new Fast-Joint mini™ Precision Joinery System!



Fast-Joint mini
PRECISION JOINERY SYSTEM

Fast-Joint mini™ Precision Joinery System.
For technical issues or questions please call toll free at:
1-888-512-9069

Fast-Joint mini tips:

Sloppy Joints:

After making our cuts we sometimes notice that the joint does not fit quite as snug as we would like. One thing you will want to make sure of is, the router bit must be centered to the guide bushing. If after making sure the router bit is centered and the joint is still not properly fitting, install the tight bushing into the router plate.

Joint To Tight:

This is usually caused by dull cutters on your router bit. Make sure you are using a sharp cutter when cutting your joints. Another reason for tight joints is, the material was not fully removed during the cut, in other words, you may have not made enough passes. Make a couple more passes to clean up the joint. Tight joints can also be caused by build up of debris between the template and the bushing. Make sure the area between the template and bushing are as clean as possible during your cutting process.

Edges Not Aligning Properly:

Generally, this occurs when your Fast-Joint mini™ system is not square. Make sure that your jig is set up properly, to do this refer to the instructions in this manual on page 4. Another cause of mis-aligned edges is your wood may not have been firmly placed against the template alignment blocks during the cutting process. Make sure before cutting that your stock is firmly in place and secure before cutting.

Stock Movement During Cut:

This is usually caused by the sandpaper strip losing it's grip from either wear and tear or improper installation. Make sure the sandpaper is properly installed as described on page 4. If the sandpaper strip is worn, remove it and replace it with a new one. TIP: One way to prolong the life of you sandpaper is to keep free of build-up. A simple way to do this is to use a belt cleaning stick and clean the strip between every use.

Jig Bows During Use:

If the Fast-Joint mini™ system bows at anytime during use, this means your toggle clamps are securing the stock to tightly. To fix this, loosen the rubber feet on the toggle clamps just enough to produce a light snap when engaged on to your stock. Fast-Joint mini™ should sit flat on your table top surface at all times.