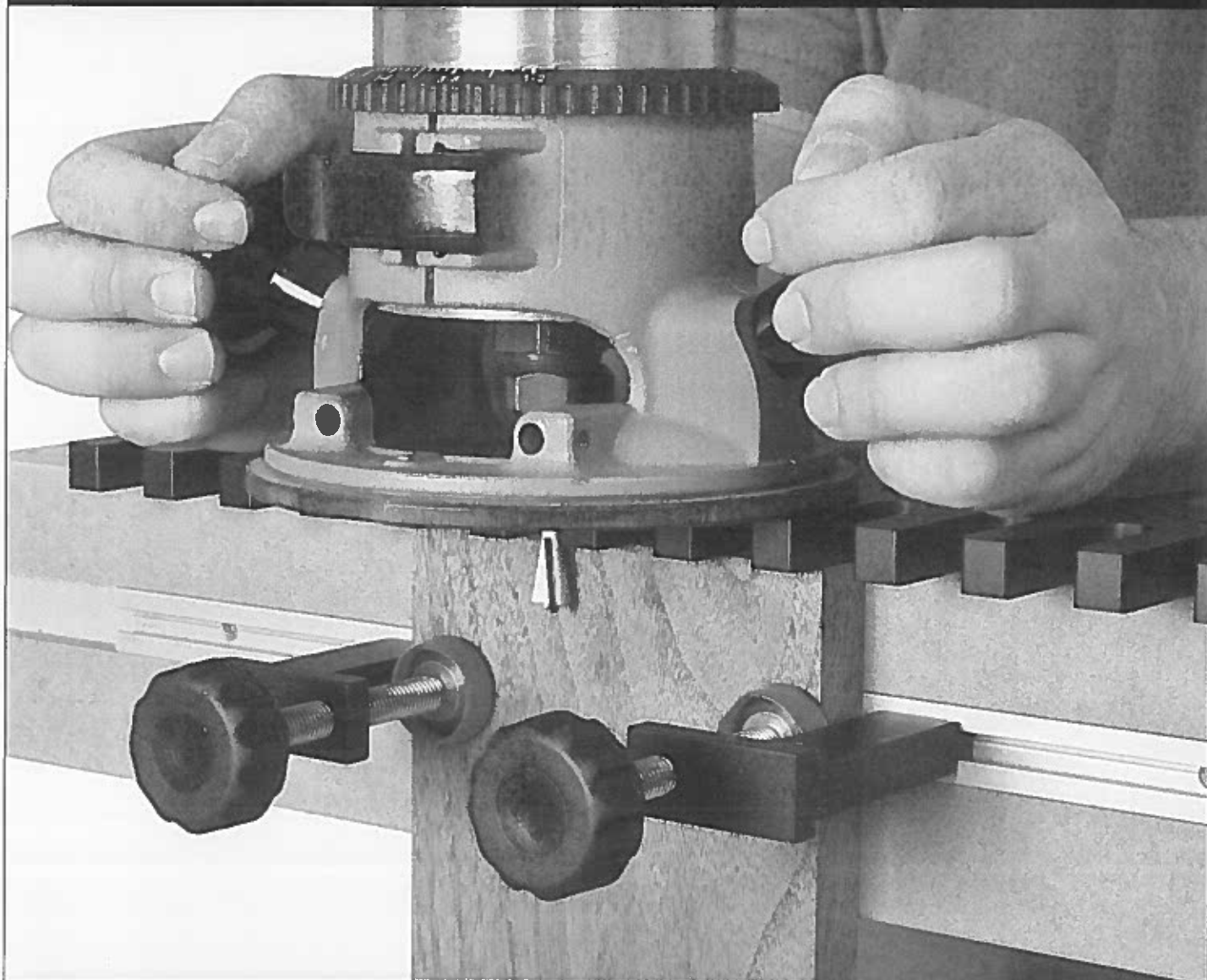




Peachtree
Woodworking Supply
Accessories for Woodworkers

DOVETAIL JIG MASTER SYSTEM

Instruction Manual
Part # 3452 Version 3.0



Disconnect saw
from power
source before
making any ad-
justments.



Always wear proper
ear protection when
working with
machinery.



Use caution when handling
sharp objects (saw blades,
router bits, drill bits and so
on). Use protective gloves
whenever possible.



Always wear proper
eye protection when
working with ma-
chinery and tools.



Always wear
proper respira-
tory protection
when working
near airborne
dust particles.

*Please read and fully understand any and all safety materials that came with your power tools or machinery before operation.
Always follow all safety guidelines set in place by the power tool or machine manufacturer.*

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Before We Begin...

You must build a mounting block for the aluminum dovetail jig template to be secured to. The block must be machined to specific measurements in order to properly work with the jig. The Peachtree Dovetail Jig Master System comes with two aluminum tracks and two track clamps. The details for the slots for track installation are detailed below. Use these drawings as a guide to build your mounting block. We recommend using wood that mills easily like poplar or MDF (Medium Density Fiberboard) for optimum results. We also recommend that when using different size router bits that you create a new mounting block so you minimize the chance for tear-out on your projects.

Please Note: The Dovetail Jig Master System includes track and track clamps to make securing the mounted dovetail jig easy to clamp to your stock piece. Using the track and track clamps is optional and you may use standard F-clamps or Track Clamps to secure the jig to your stock if you so choose. For the majority of these instructions we show the F-Clamp method.

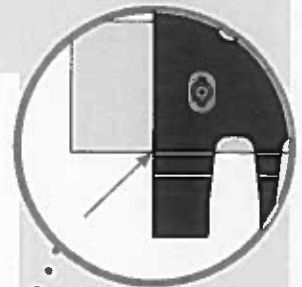
Build Your Mounting Block (WOOD NOT INCLUDED)

TOP VIEW

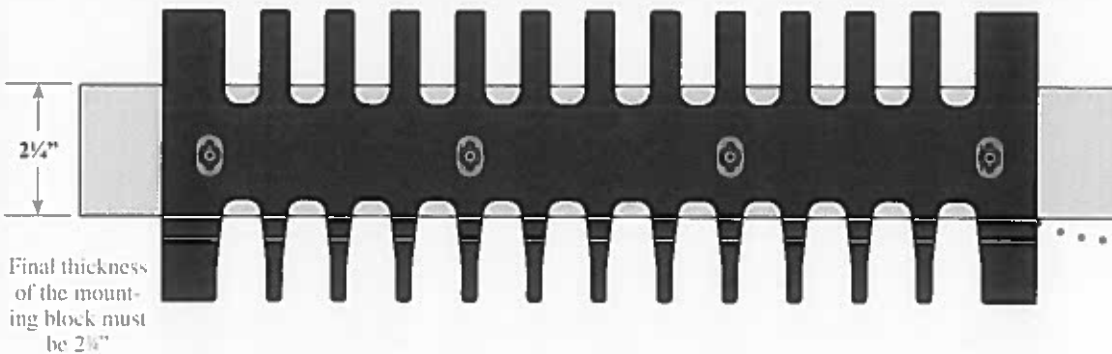
Mounting Block:

Is three pieces of $\frac{3}{4}$ " thick stock glued together to make one solid piece of $2\frac{1}{4}$ " thick stock. The $\frac{3}{4}$ " stock must be at least $18\frac{1}{2}$ " long by $5\frac{1}{4}$ " tall. We then trimmed the block to the following dimensions of 18" long by $4\frac{7}{8}$ " tall by $2\frac{1}{4}$ " thick.

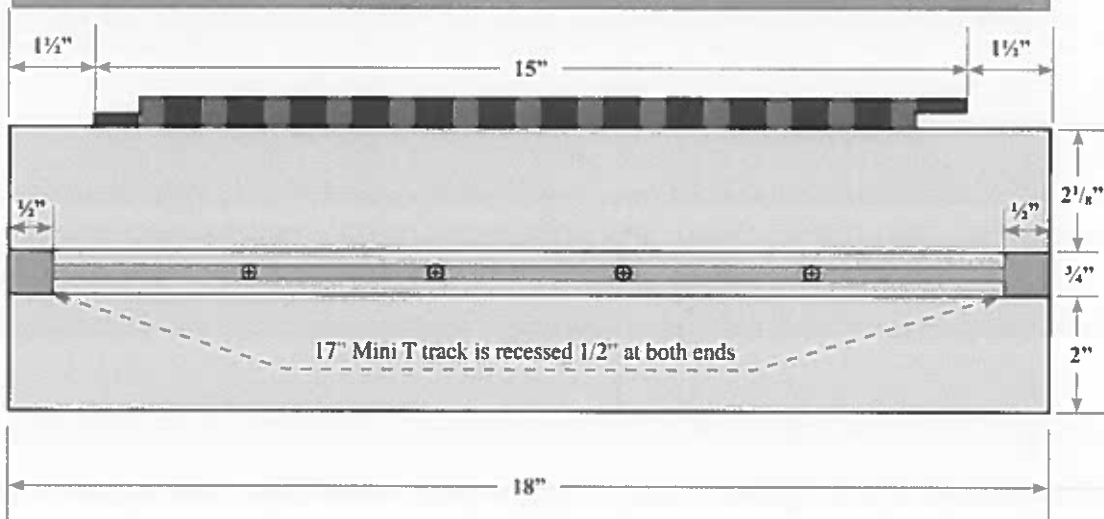
When Mounting the Block



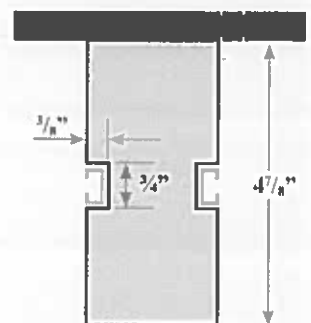
Align the inside scribe line to the edge of the mounting block as shown here for standard size router bits. (Please refer to "Mount the Jig to Mounting Block" Section on the next page)



FRONT VIEW



RIGHT SIDE VIEW



Rout or dado a slot $\frac{3}{4}$ " wide and $\frac{3}{8}$ " deep the entire length of the block on both sides to install the Mini T Track

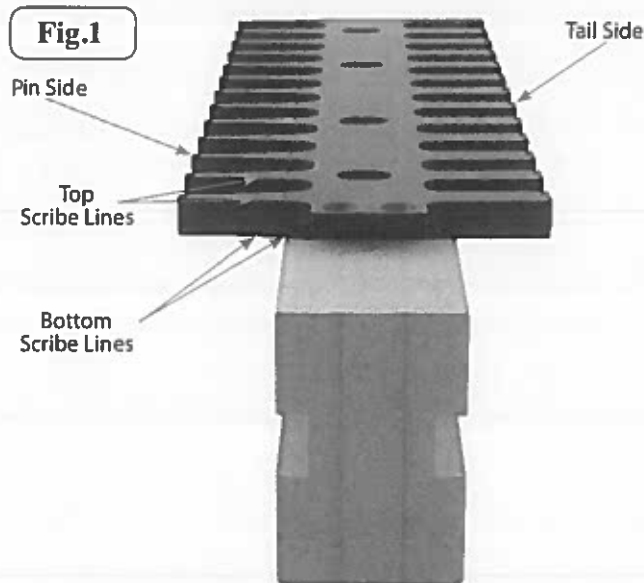
Mounting The Dovetail Jig

Prepare the mounting block (Not Included):

The 15" Dovetail Jig is mounted to a piece of stock (mounting block) that acts as a clamping surface for the work-piece. This will also prevent tear-out on the back side of your stock when you cut your joints. It is essential that the mounting block is accurately machined so it is 90° to the dovetail jig. It can be made from a solid block or laminated. The block needs to be 2-1/4" thick x 4-7/8" high x 18" long for use with standard router bits (see previous page for mounting block guidelines). For different size dovetails we recommend you change your mounting block to provide solid, continuous support when your bit passes through the back of your stock.

Mount the Jig to Mounting Block:

The first thing you need to do to start using your Dovetail Jig is to mount the jig to the mounting block. The 15" Dovetail Jig has four elongated holes to attach the jig to the mounting block. There are two scribed lines that run across the underside and the top side of the dovetail jig on the pin side of the jig itself (Fig. 1). The inside line (toward the center of jig) is used to line up the mounting block when using the standard router bit set for cutting dovetails in 5/8" to 3/4" stock. The outside line is used to line up a wider mounting block or spacer block when using the smaller router bit set for cutting dovetails in 1/8" to 3/8" stock. Match this line to the top edge of the mounting block, it is important that the scribed line on the template jig and the stock are parallel. Drill through the four holes and insert the screws into the middle of the elongated holes. Tighten securely. The 15" Dovetail Jig can be used either in an upright position locked in a vise or inverted onto a router table when working with shorter stock.



⚠ CAUTION

Before each use, make sure that the bearing locking device (clip or set screw) is properly secured and the bearing is rotating freely on the shank of the router bit. Failing to do so could result in damaging the dovetail jig, router bit or may cause personal injury.

Cut a Sample Joint

Before making a "live" cut on your project you will need to make a sample cut to test the accuracy of the fit. Follow instructions in the next section on how to make the tail cut and pin cut for your sample joint. When cutting a sample joint, it is important that the stock thickness is the same thickness as your project stock. The standard bit set that came with your jig is capable of cutting 5/8" to 3/4" stock. There are two other bit sets (sold separately) available for your dovetail jig. One bit set will do 1/4" to 1/2" stock and the other set will do 1/8" to 3/8" stock.

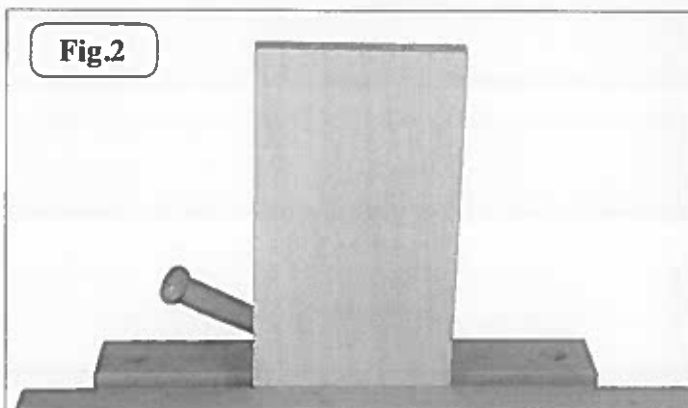
Cutting The Tails

Making the Tail Cut:

Always start your projects by cutting the tail side first. The reason for this is, the tail cut side of the joint is not able to be adjusted. This makes the joint very accurate because we are working off of the angles of the dovetail router bit. It is the pin side of the joint that can be adjusted to fit the tail cut of the joint.

1. Secure stock to Jig

- Prepare the stock to be dovetailed by joining all four edges followed by cutting the ends square. With the Dovetail Jig you can use one thickness stock for the tail cut and a different thickness stock for you pin cut.
- Clamp your stock to be dovetailed vertically into you workbench vise. Fig 2



C. Place the mounted dovetail jig (tail side) on the end of stock. Position the jig, so that there are equal distances on either side of the jig. Make sure dovetail jig rest's flat on the tail stock and secure in place with F-clamps or included track clamps. To achieve an exact centered joint, mark the center of your stock, See Fig. 3, then measure $5/16"$ to one side of the center mark and scribe a second line with a pencil. Position the inside edge of one of the tail side openings exactly with the second scribed line See Fig. 4 or 4a. Secure in place with F-clamps or Track clamps. This method gives you equal spacing of your tails on either side of your stock.

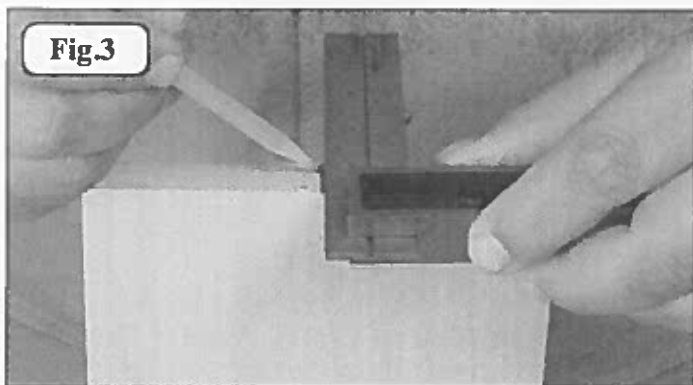


Fig.3

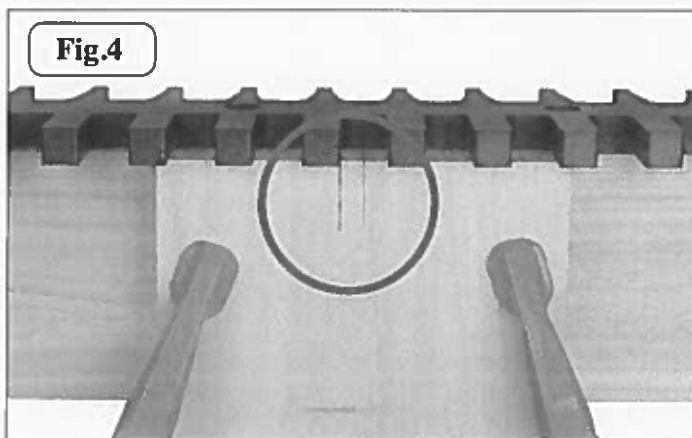


Fig.4

Fig.4a

If using track clamps

Using the included track clamps makes securing the jig to your stock much quicker and hassle free

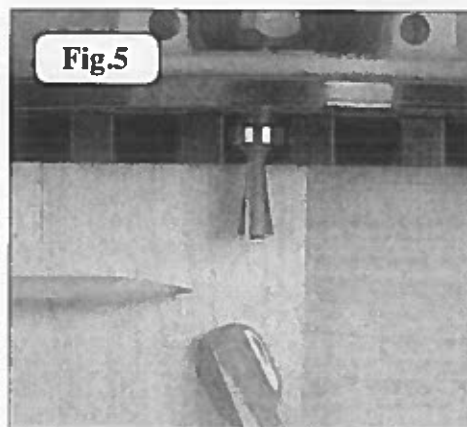
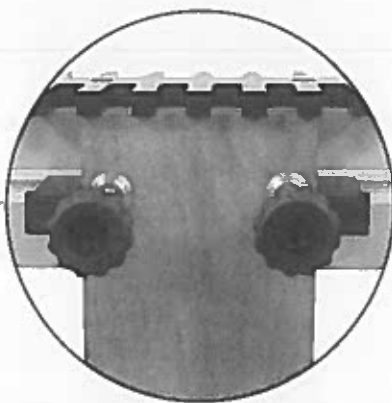


Fig.5

⚠ Caution:
Make sure when clamping your stock to the jig your clamp heads are not in the path of the router bit.

E. Place the dovetail router bit with bearing guide into your router and secure router bit collet tightly. Adjust the base of your router for depth of cut by adding the thickness of the pin stock piece plus $1/2"$ for the thickness of the dovetail jig. If desired, add an additional $1/32"$ or more for sanding the edge perfectly flush after assembly of joint. Another way of setting your bit height is to place your pin side stock on top of the jig. Place the router with bit on top of stock, with bit hanging over edge between the fingers of the jig. Now lower the router bit until it touches the top of the tail stock and then secure router bit in place. See Fig. 6

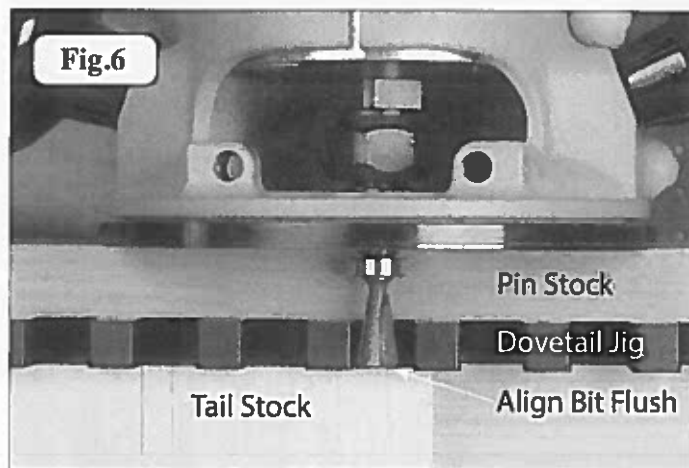


Fig.6

Caution:

Make sure bearing contacts dovetail jig by at least $1/8"$ or more before starting cut. If bearing does not contact jig properly it may result in injury or damaging the dovetail jig. See Fig.7. In order cut dovetails into thinner stock, you must use optional router bits which are sold separately.

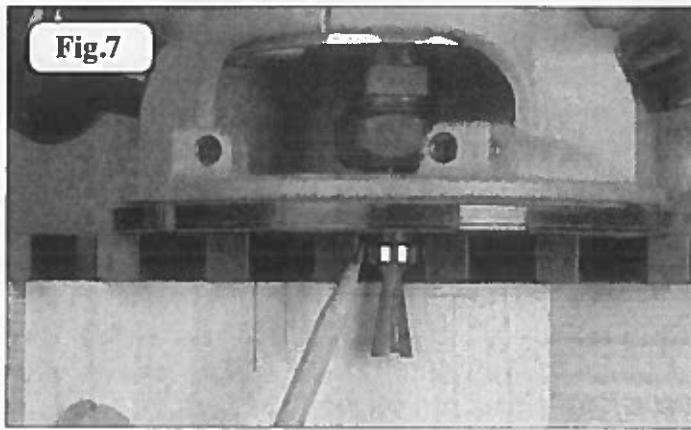


Fig.7

F. (Always wear eye protection) Cut your stock standing behind mounting block. See Fig. 8a. This will allow you to pull the router towards you while making the cut, giving you a smoother, more controllable cut. This also will keep the wood chips directed away from you. Place your router flat on top of the dovetail jig surface with the bit in between one of the openings. Be sure the cutter is not contacting the wood surface before turning your router on. Holding the router firmly, turn it on, and guide the bearing and router bit through each of the tail side openings, pulling the router all the way back to each of the tail slots, See Fig. 8a.

Shop Notes:

Do not force the router bit, or cut too fast, as this may result in tear-out, splintering of the stock or even loss of control. Moving the router too slow could result in burning of your stock. Feed the router bit into the stock with a smooth and controllable rate.

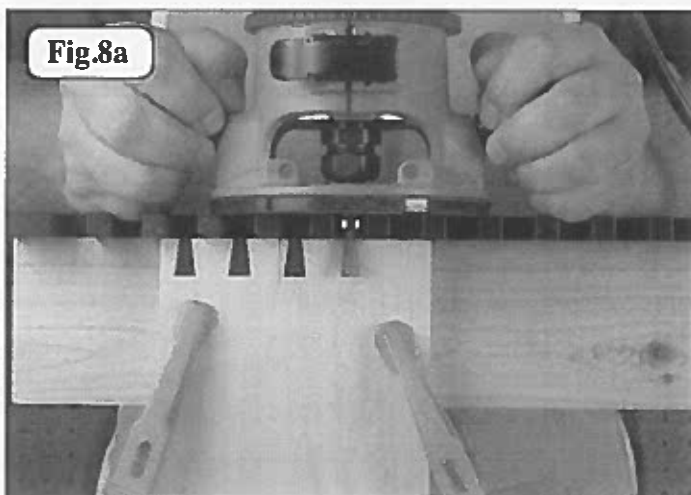


Fig.8a

Caution:

To prevent damaging your dovetail jig while router is turned on - Do not tip the router, always keep the router flat on jig. Do not use the last opening on either end of the Dovetail Jig during the cutting process, doing so may tip the router (Fig. 8b) and cause damage to the jig or cause injury. Do not lift the router up between the fingers while router is on. Always be sure the router base is supported while making your cuts on the dovetail jig. When routing of joint is complete, turn router off and wait for bit to come to a complete stop before removing router off of the dovetail jig.



Fig.8b

Completed Tail Cut:

Your completed tail cut stock should look like the photograph shown below in Fig. 9

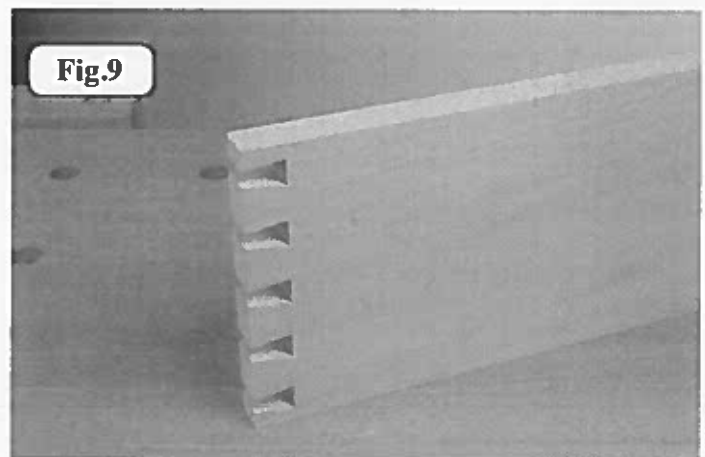


Fig.9

When Stock is Wider Than Dovetail Jig:

When the stock is wider than the jig, cut all of your tails, then scribe the outline of the last tail opening on the right side of the jig before un-clamping. Once scribed, un-clamp jig, slide the jig to the right, aligning the last tail opening on the left side of the jig with the scribed lines. Repeat this process for the entire width of you stock.

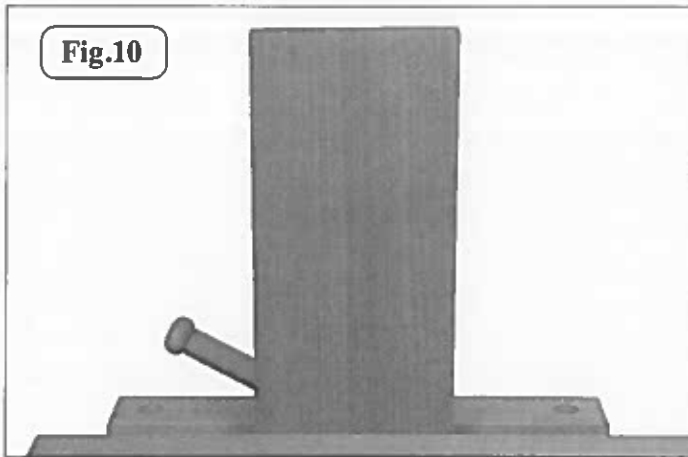
Cutting The Pins

Making the Pin Cut:

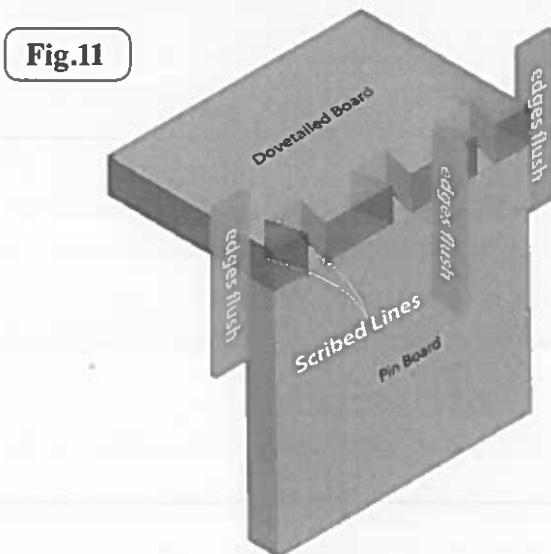
Pin cuts are always made after cutting the tails. The reason for this is, you will use the tail to cut to lay out the positioning of the pins of your joint.

1. Secure stock to Jig

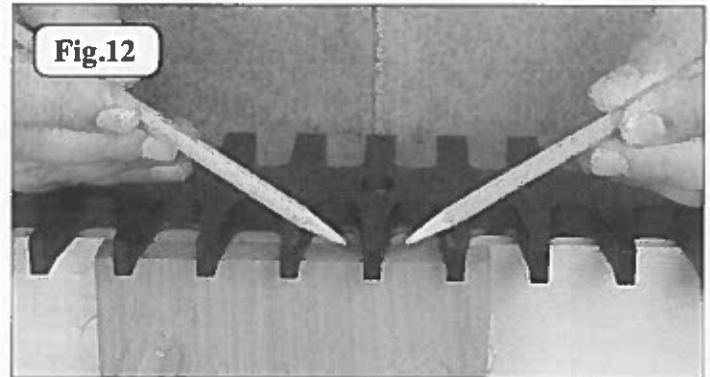
- A. Prepare the stock to be dovetailed by joining all four edges followed by cutting the ends square. With the Dovetail Jig you can use one thickness stock for the pin cut and a different thickness stock for you tail cut.
- B. Clamp your stock to be dovetailed vertically into you workbench vise. Fig 10



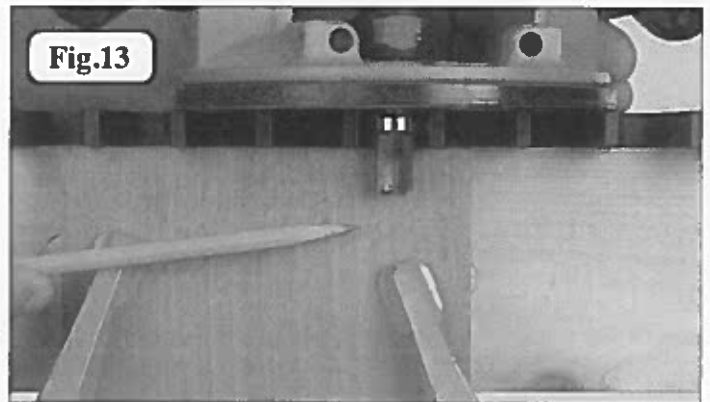
- C. To mark the location of the pins you will use the tail stock piece you just cut as marking guide. Position the tail stock on top of the pin board in the correct right angle position See Fig. 11 . Make sure all three edges line up flush with the pin board (piece to be cut). Using a utility knife, scribing knife or a fine tipped pencil mark the location of one dovetail opening on the end grain of the pin board.



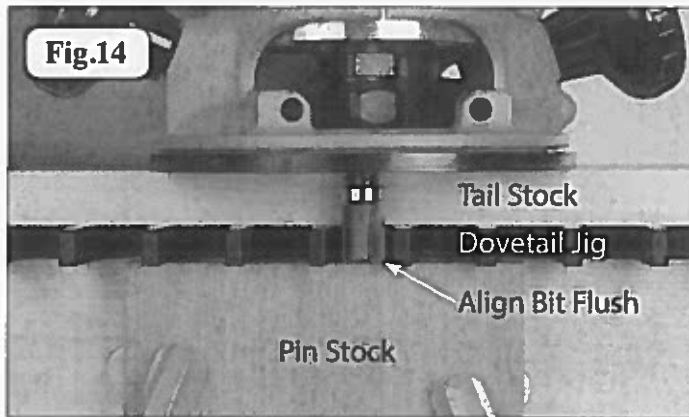
- D. Place the mounted dovetail jig (pin side) on the end of stock. Position the jig, so that the two edges of one of the pins line up with the two scribed lines. Note: the angles that you marked with your scribing tool for your dovetail opening will match both side edges of one pin on your dovetail jig. See Fig.12. Make sure dovetail jig rest's flat on the pin stock and secure in place with F-clamps or Track Clamps. You will be removing the stock that is exposed between the pin openings of the dovetail jig using the straight router bit.



Caution:
Make sure when clamping your stock to the jig your clamp heads are not in the path of the router bit.
See Fig.13

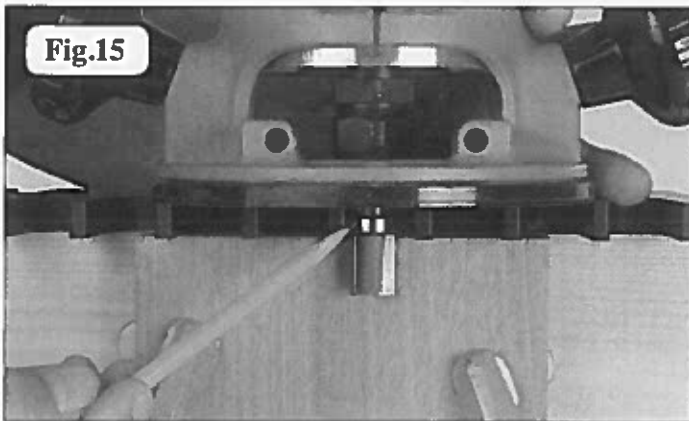


- E. Place the straight router bit with bearing guide into your router and secure router bit collet tightly. Adjust the base of your router for depth of cut by adding the thickness of the tail stock piece plus 1/2" for the thickness of the dovetail jig. If desired, add an additional 1/32" or more for sanding the edge perfectly flush after assembly of joint. Another way of setting your bit height is to place your tail side stock on top of the jig. Place the router with bit on top of stock, with bit hanging over edge between the fingers of the jig. Now lower the router bit until it touches the top of the pin stock and then secure router bit in place. See Fig. 14

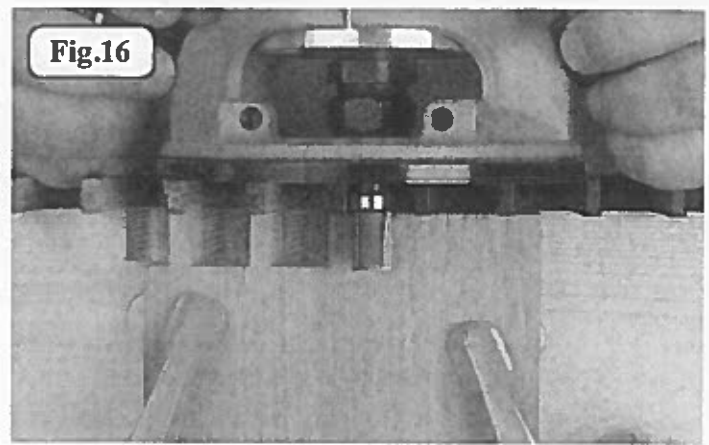


Caution:

Make sure bearing contacts dovetail jig by at least 1/8" or more before starting cut. If bearing does not contact jig properly it may result in injury or damaging the dovetail jig. See Fig.15. In order cut dovetails into thinner stock, you must use optional router bits which are sold separately.



F. (Always wear eye protection) Cut your stock standing behind mounting block. See Fig. 16. This will allow you to pull the router towards you while making the cut, giving you a smoother, more controllable cut. This also will keep the wood chips directed away from you. Place your router flat on top of the dovetail jig surface with the bit in between one of the openings. Be sure the cutter is not contacting the wood surface before turning your router on. Holding the router firmly, turn it on, start by taking very light pass across the face of your pin stock. This step prevents chipping or tear-out of the stock. Proceed to guide the bearing and router bit along the edge of each of the pin side openings of the dovetail jig. Pulling the router all the way back to each of the pin slots removing the stock down to the scribed lines, See Fig.16 On wood that tends to easily chip, a thin light pass from the face of the stock to the back of the dovetail jig will help eliminate tear-out.

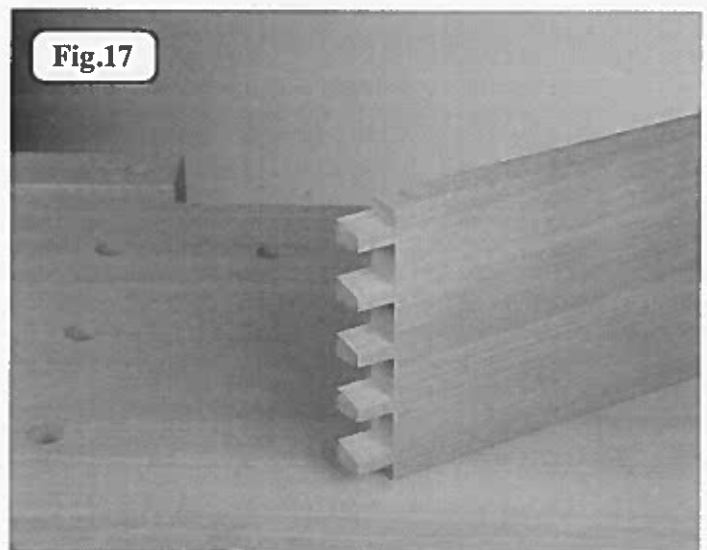


Caution:

To prevent damaging your dovetail jig while router is turned on - Do not tip the router, always keep the router flat on jig. Do not lift the router up between the fingers while router is on. When routing of joint is complete, turn router off and wait for bit to come to a complete stop before removing router off of the dovetail jig. Do not force the router bit, or cut too fast, as this may result in tear-out, splintering of the stock or even loss of control. Moving the router too slow could result in burning of your stock. Feed the router bit into the stock with a smooth and controllable rate.

Completed Pin Cut:

Your completed pin cut stock should look like the photograph shown below in Fig. 17

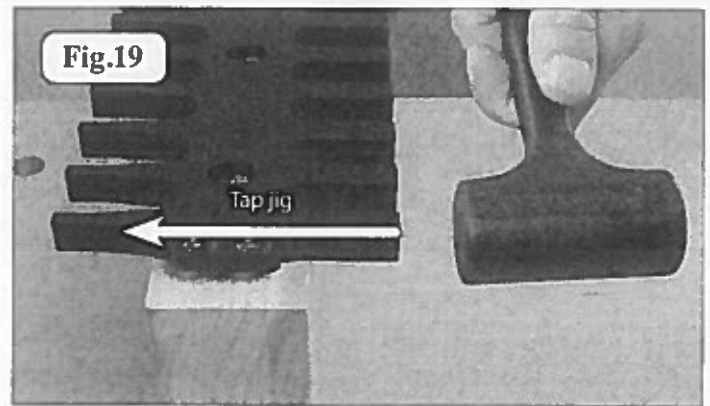
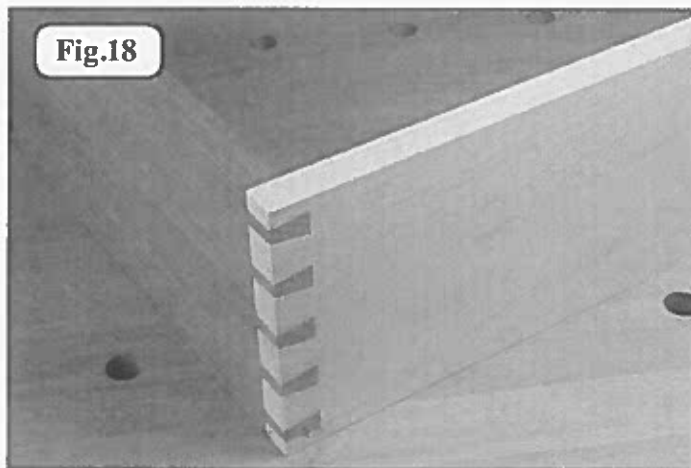


When Stock is Wider Than Dovetail Jig:

When the stock is wider than the jig, cut all of your pins, then scribe the outline of the last pin opening on the right side of the jig before un-clamping. Once scribed, un-clamp jig, slide the jig to the right, aligning the last pin opening on the left side of the jig with the scribed lines. Repeat this process for the entire width of your stock.

Assemble the Dovetail Joints:

Assemble the pin-board and the tail-board. The Joint should have a snug - sliding fit as shown in Fig. 18. If you have to force the joint together with a mallet, it may result in splitting the dovetailed sockets, as well as forcing the glue out of the joint. too loose of a fit, may produce wobbling and a weak dovetail joint. If you have added the extra $1/32''$ or more to your joint, it can now be cleaned up by sanding the joint flush after gluing. If satisfied with the fit of your dovetail joint - glue, clamp and finish your project. If the dovetails are in need of adjustment, this is done on the pin side of the dovetail jig (follow steps below). The tail side or of the joint remains the same.

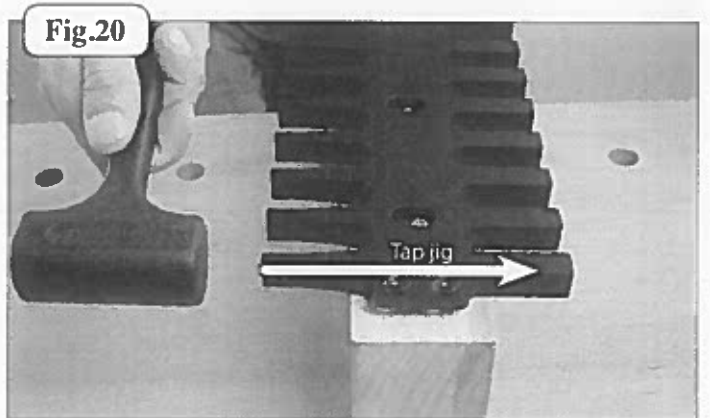


Shop Notes:

When making test cuts it is important that your test stock is exactly the same size thickness as your project stock. Each time you change the thickness of your stock, you must adjust the dovetail jig accordingly.

If joints are to tight:

You will need to make the joint looser by making the pins smaller, slightly loosen the 4 screws that hold the dovetail jig to the mounting block, just enough to be able to tap the jig backward with a wooden mallet or scrap block of wood (do not use a metal hammer directly on jig as it may damage the dovetail jig). Tap the dovetail jig backward on the mounting block. The distance of this adjustment usually is made in $.001''$ depending upon how tight the joint is. Start out by tapping the dovetail jig backward on the block $.002''$. See Fig. 20. This means that each pin size is decreased by $.004''$ smaller ($.002''$ on each side of the pin = $.004''$). Make sure your adjustment remains parallel across the dovetail jig to the mounting block. Once adjustment is made, tighten four screws and repeat cutting process with different piece of stock until you obtain desired fit.



Shop Notes:

When making test cuts it is important that your test stock is exactly the same size thickness as your project stock. Each time you change the thickness of your stock, you must adjust the dovetail jig accordingly.

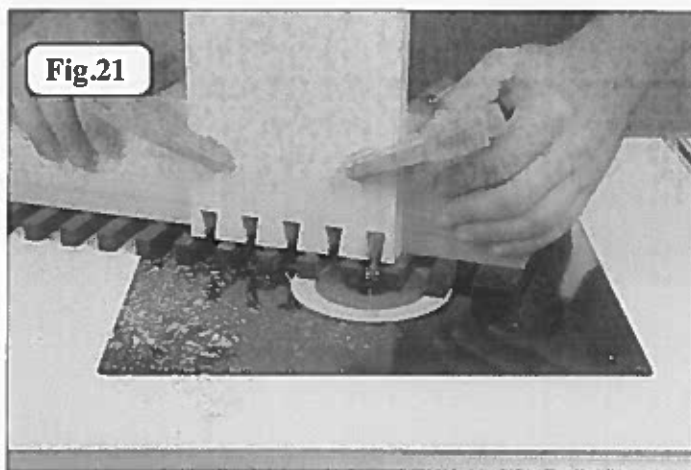
If Joints Are To Loose:

You will need to make the joint tighter, by making the pins larger, lightly loosen the 4 screws that hold the dovetail jig to the mounting block, just enough to be able to tap the jig forward with a wooden mallet or scrap block of wood (do not use a metal hammer directly on jig as it may damage the dovetail jig). Tap the dovetail jig forward on the mounting block. The distance of this adjustment usually is made in $.001''$ depending upon how loose the joint is. Start out by tapping the dovetail jig forward on the block $.002''$. See Fig. 19. This means that each pin size is increased by $.004''$ wider ($.002''$ on each side of the pin = $.004''$). Make sure your adjustment remains parallel across the dovetail jig to the mounting block. Once adjusted, tighten the four screws - repeat cutting process with different piece of stock until you obtain the desired fit.

Various Dovetail Jig Uses

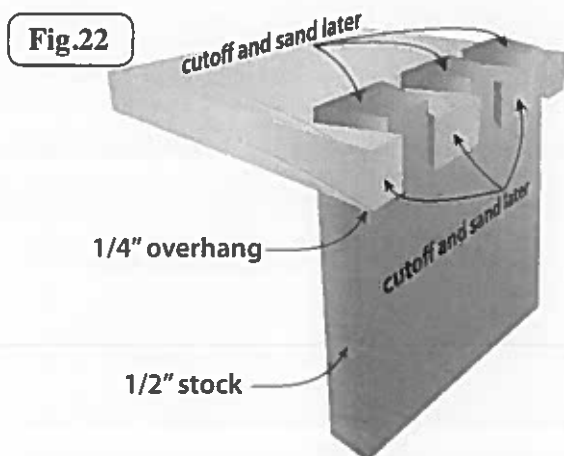
Using your dovetail jig on a router table:

To use your Dovetail Jig on a router table, you will follow the exact same directions as detailed in this instruction manual, with an exception. You do not clamp your stock into your work bench vise. Once the stock is clamped into your jig you will then flip the jig with stock up-side down to be run on your router table. (See Fig. 21)



Thinner stock using “standard” bits:

You are able to do thinner stock using the bits that came with your set, leaving a larger amount of cut-off waste. Since the bearing of the bit must ride in the template by 1/8” or more, the standard bits will leave larger waste to be removed once the joint is complete. See (Fig. 22)

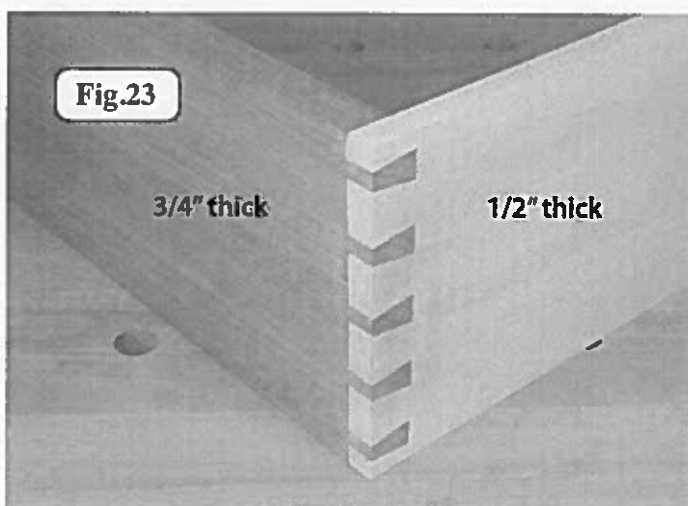


Caution:

Make sure bearing contacts dovetail jig by at least 1/8” or more before starting cut. If bearing does not contact jig properly it may result in injury or damaging the dovetail jig. See Fig. 15. In order cut dovetails into thinner stock, you must use optional router bits which are sold separately.

Cutting stock thickness; 1/4” to 1/2”:

Optional router bits (sold separately) for cutting 1/4” to 1/2” stock. We have designed two shorter router bits that are the exact same finished profile as the standard bits that came with the dovetail jig. When using these bits, you will not have make any adjustments to the jig. The only adjustment that is made is for the thickness stock we are cutting. Use the two bits together, or use one of these bits in conjunction with one of the standard bits when cutting two different thickness stocks as shown in example below (See Fig. 23). Keep in mind, when setting up for this type of cut, you would set the bit up for the opposing stock thickness. We used the standard dovetail bit that came with the dovetail jig to cut the tails and we used the straight bit from the 1/4” to 1/2” set to cut the shorter pins.



This joint shows 1/2” thick stock for the tails and 3/4” stock for the pins.

Shop Notes:

When cutting with the optional router bits, follow the all the instructions previously outlined in this manual. Make necessary adjustment for thinner stock pieces.

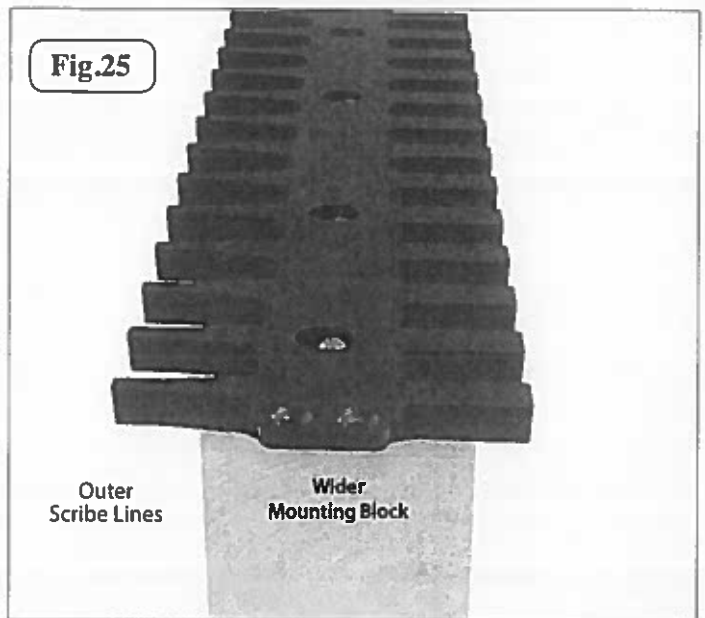
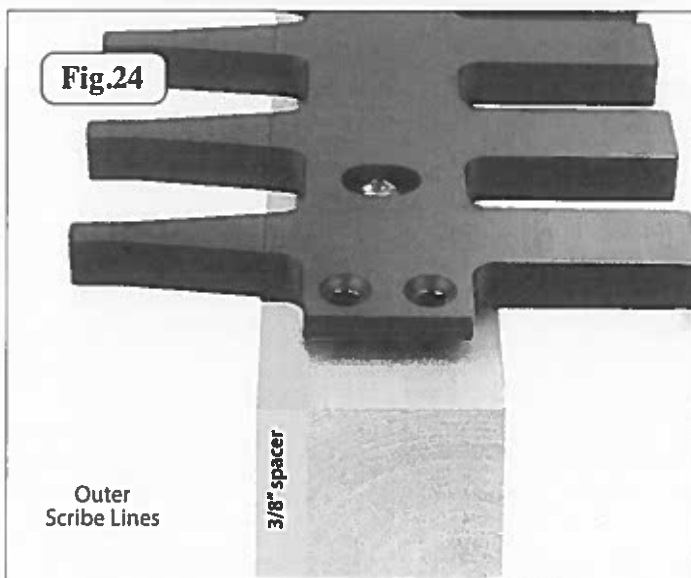
Cutting stock thickness; 1/8” to 3/8”:

Optional router bits (sold separately) for cutting 1/8” to 3/8” stock. We have designed two smaller router bits that work from the second scribe line on your dovetail jig. In order to use these bits, you must either attach a 3/8” spacer fence on you current mounting block or make a wider mounting block.



Prepare The Mounting Block Thinner Stock:

In order to cut thinner stock, you must make the pins smaller. This is achieved by adding a 3/8" spacer (made out of MDF or solid wood) to the face of your mounting block (Fig. 24) not included. You can also achieve this by making a thicker mounting block - not included. It is essential that the mounting block is accurately machined so it is 90° to the dovetail jig. It can be made from a solid block or laminated. The block needs to be 2-5/8" thick x 4-7/8" high x 18" long. For different size dovetails we recommend you change your mounting block to provide solid, continuous support when your bit passes through the back of your stock.



Once you have mounted your dovetail jig to the wider block, you will be able to use the bit set that cuts from 1/8" to 3/8" stock. These router bits can only be used in conjunction with each other since they work off of a smaller section of the dovetail jig.

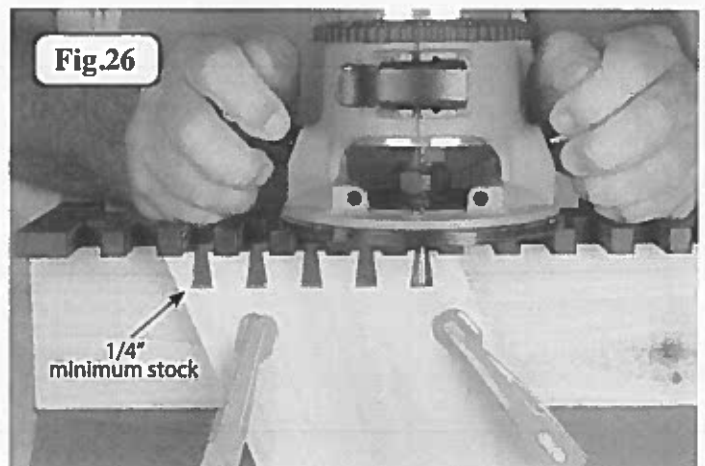
Shop Notes:

When cutting with the optional router bits, follow the all the instructions previously outlined in this manual. Make necessary adjustment for thinner stock pieces.

Creating Angled Dovetails

Angled Dovetails:

Cutting angled dovetails is done the same way you would do 90° dovetails. In this example we have a cut 22½° angle on our tail cut. Follow the instructions previously outlined in this manual to center the stock, then clamp your jig to the stock and make the cut. Make sure you position the jig to have at least 1/4" of stock on the outer tail. See (Fig. 26)

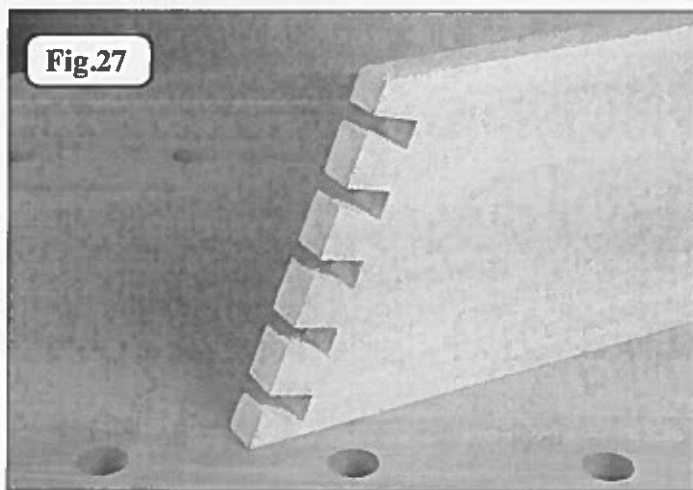


Mount The Jig To A Thicker Mounting Block:

Mount the thicker block to the dovetail jig the exact same way that it was outlined in the beginning of the instruction manual. There are two scribed lines that run across the underside and the top side of the dovetail jig on the pin side of the jig itself (Fig. 25). The outside line is used to line up the mounting block or spacer block when using the smaller router bit set for cutting dovetails in 1/8" to 3/8" stock. Match this line to the top edge of the mounting block, it is important that the scribed line on the template jig and the stock are parallel. Drill through the four holes and insert the screws into the middle of the elongated holes. Tighten securely. The 15" Dovetail Jig can be used either in an upright position locked in a vise or inverted onto a router table when working with shorter stock.

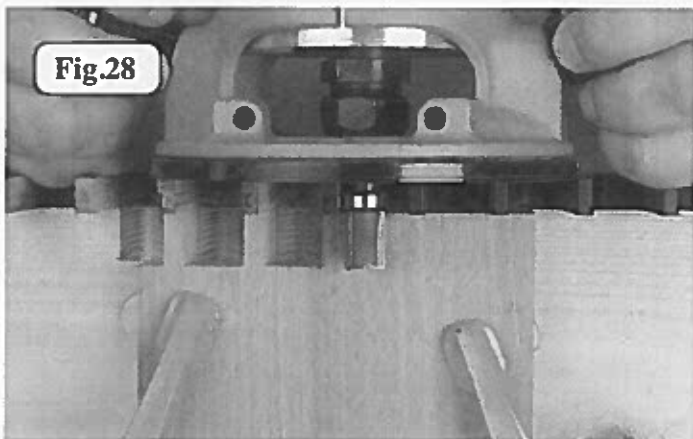
Completed Angled Tail Cut:

Your completed tail cut stock should look like the one shown below. See (Fig. 27)



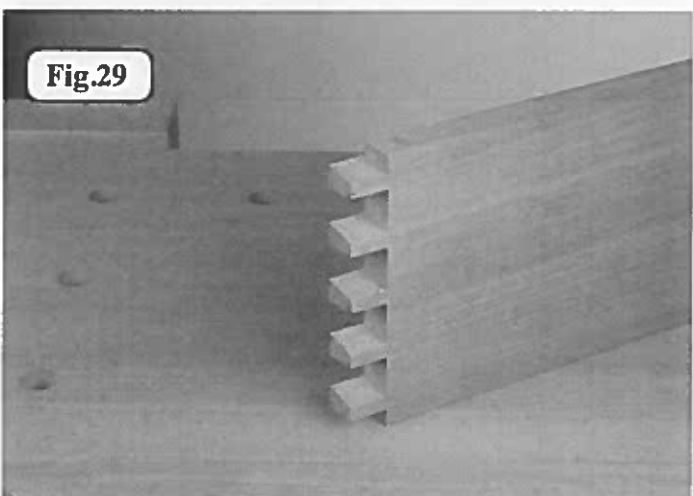
Making the Pin Cut:

Follow the instructions previously outlined in this manual to align the stock to the jig, then clamp your jig to the stock and make the cut. See (Fig. 28)



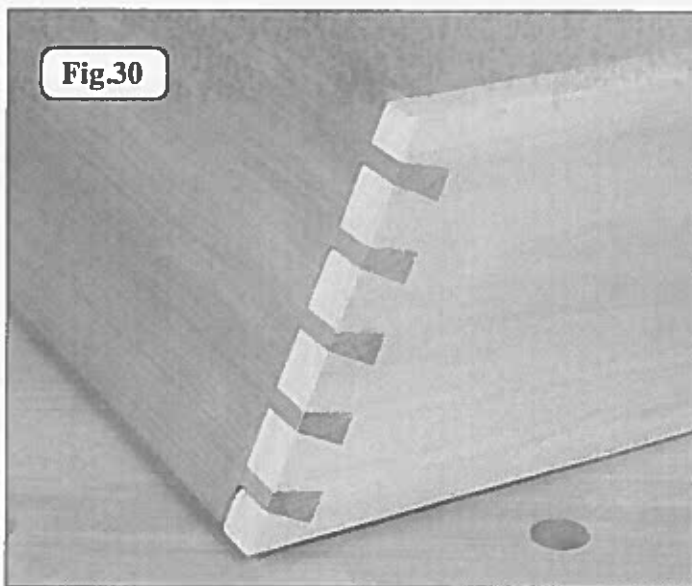
Completed Angled Pin Cut:

Your completed tail cut stock should look like the one shown below. See (Fig. 29)



Assemble the Angled Dovetail Joints:

Assemble the pin-board and the tail-board. The Joint should have a snug - sliding fit as shown in Fig. 30. If you have to force the joint together with a mallet, it may result in splitting the dovetailed sockets, as well as forcing the glue out of the joint. Too loose of a fit, may produce wobbling and a weak dovetail joint. If you have added the extra 1/32" or more to your joint, it can now be cleaned up by sanding the joint flush after gluing. If satisfied with the fit of your dovetail joint - glue, clamp and finish your project. If the dovetails are in need of adjustment, this is done on the pin side of the dovetail jig (refer previous instruction for joint adjustment).



Shop Notes:

You can use angled spacing blocks between your stock and the jig to cut virtually any type of angle from acute to obtuse. If you can clamp it to the jig you can dovetail it.

Creating Skip Spacing Joints

Skip Spacing Dovetail Joints:

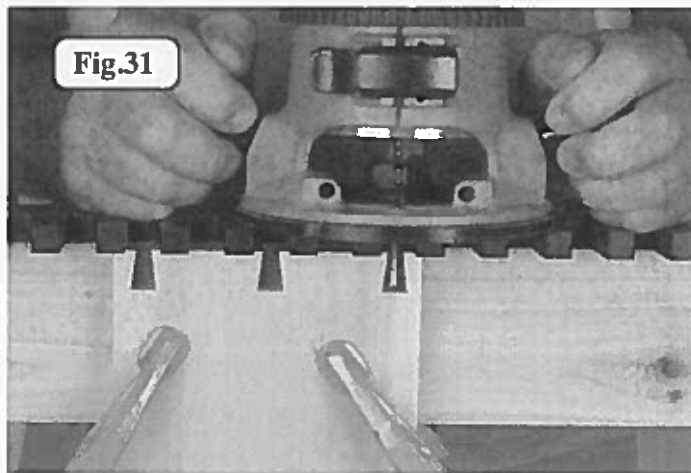
One of the unique features of this system is, you can skip spaces between the tail cut and pin cut to vary the size of the joint. You can also make an endless amount of different widths by making one cut and then sliding the jig to one side and make a second cut to vary the width of the joints. This following example will show you the skip spacing method.

Please Note:

When using this method you will mark the location of all the pins on the opposing stock.

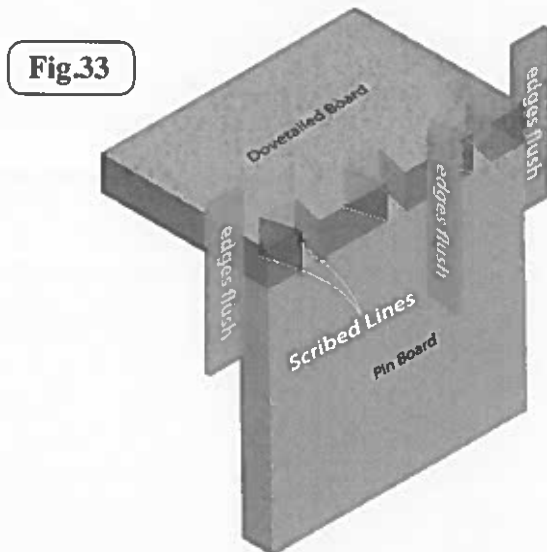
Cutting The Tail:

We will be cutting every other tail cut on the jig. Follow the instructions previously outlined in this manual to center the stock, then clamp your jig to the stock and make every other tail cut. See (Fig. 31)



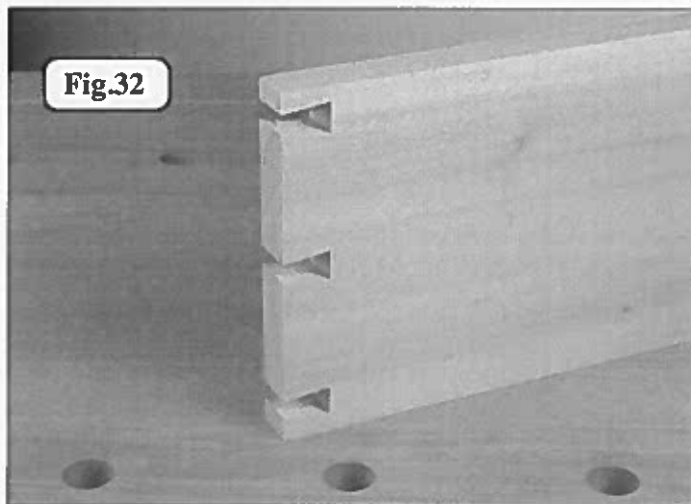
Making Pin Cut Locations:

To mark the location of the pins you will use the tail stock piece you just cut as marking guide. Position the tail stock on top of the pin board in the correct right angle position See Fig. 33 . Make sure all three edges line up flush with the pin board (piece to be cut). Using a utility knife, scribing knife or a fine tipped pencil mark the location of ALL dovetail openings on the end grain of the pin board.



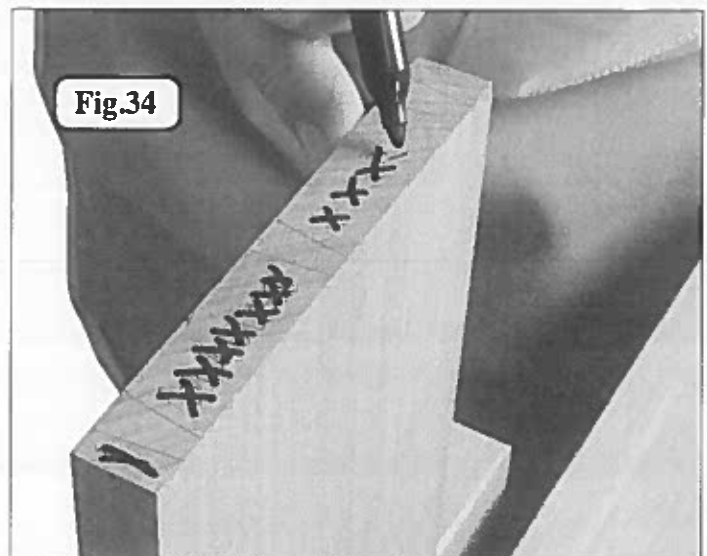
Completed Skip Spacing Of Tail Cut:

Your completed tail cut stock should look like the one shown below. See (Fig. 32)



Marking Stock to be Removed:

Once you have marked the locations of your pins, use a magic marker or pencil to mark the stock to be removed between the pins. See (Fig. 34)

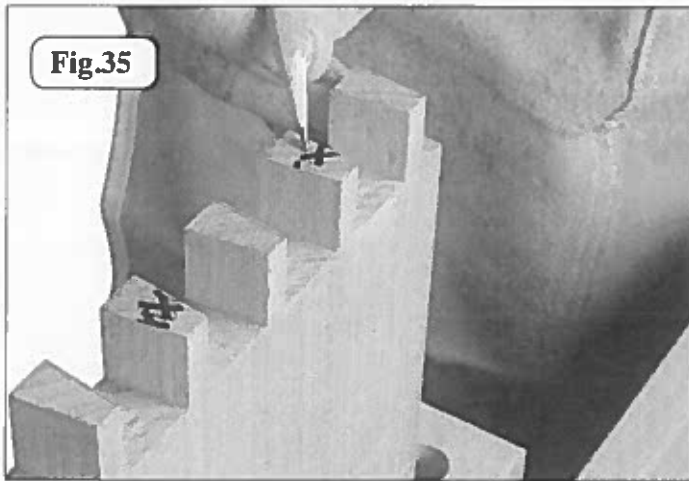


Making The Pin Cut:

Pin cuts are always made after cutting the tails. The reason for this is, you will use the tail cuts to layout the positioning of the pins of your joint. You will follow the instructions previously outlined in this manual to align the stock to the jig with one exception; you must mark all of the pin locations on the stock to be cut.

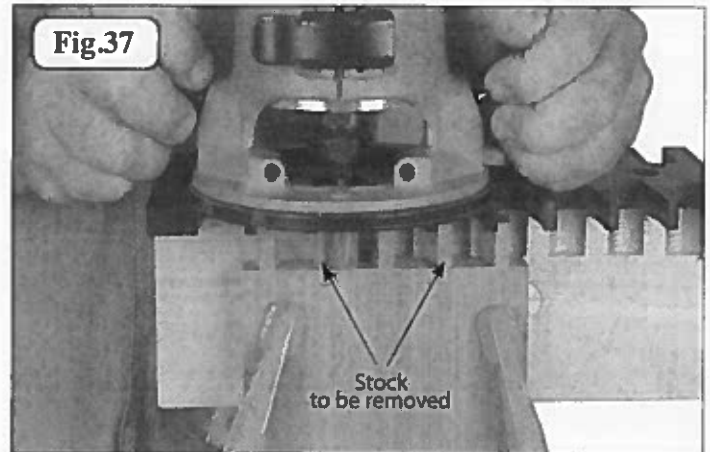
Stock removal of pin cuts:

Follow the instructions previously outlined in this manual to align the stock to the jig for the pin cut, then clamp your jig to the stock, set your bit height and make the cut. The first pass you will remove the stock in every pin cut opening. Your completed pin cut should look like **Fig. 35**. Take note, the pins that still have the magic marker on them need to be removed. You can use your band saw or a hand saw to remove them, or follow instructions below on how to use your dovetail jig to remove the excess pin material.

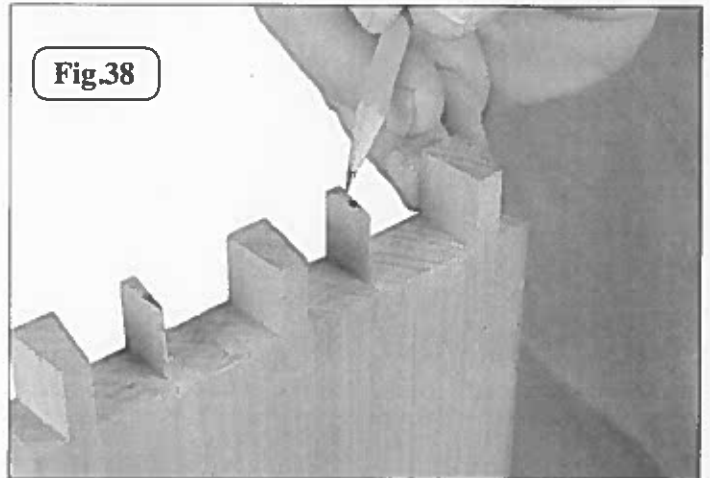


Make The Cut:

When making the cut, be sure to only remove the stock that has been marked. See (**Fig. 37**)

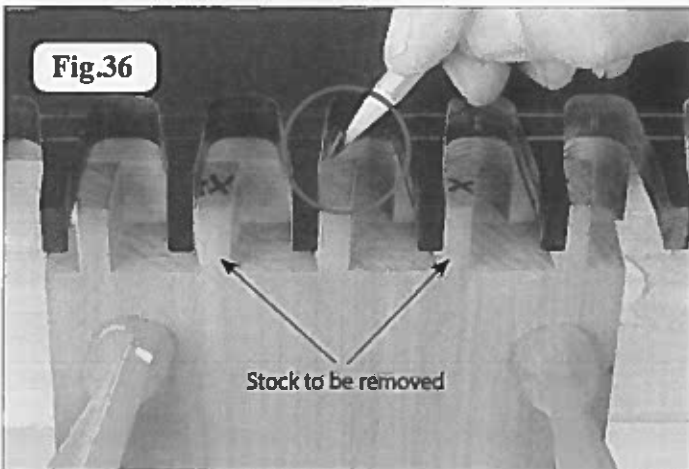


After making the cut, remove the jig - and your stock should look like this, See (**Fig. 38**). Note, there will be a small piece of the pin left that needs to be removed.



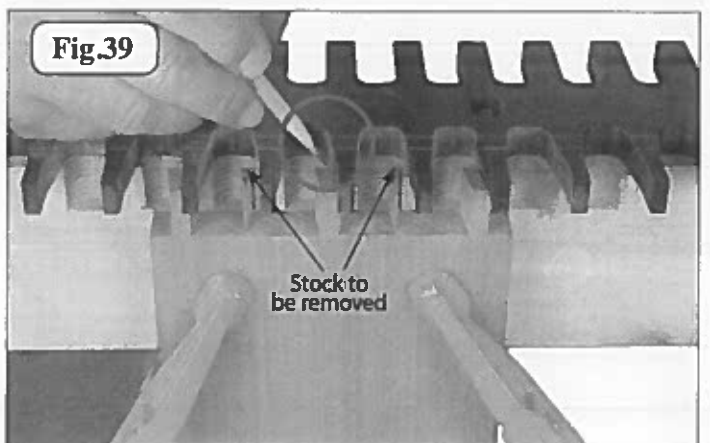
Removing Excess Pins:

Slide the jig to the Left and align the jig so that the back edge of the fingers rest on part of the pins See (**Fig. 36**), then clamp your jig to the stock. Note that we will be removing the stock that still has the markings on it.



Removing Excess Pins:

Slide the jig to the Right and align the jig so the back edge of the fingers rest on part of the pins See (**Fig. 39**), then clamp your jig to the stock. Note that we will be removing the stock that still has the markings on it.

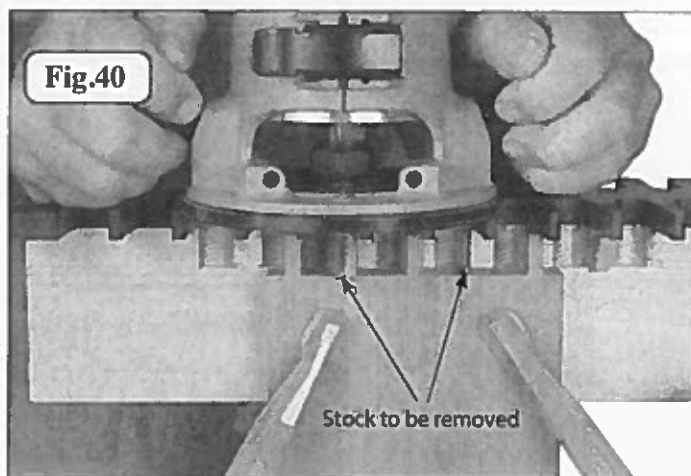


Shop Notes:

The Dovetail jig must rest flat on part of the pins to maintain the correct depth of cut, which will provide a stable work surface.

Make The Cut:

When making the cut, be sure to only remove the stock that has been marked. See (Fig. 40)

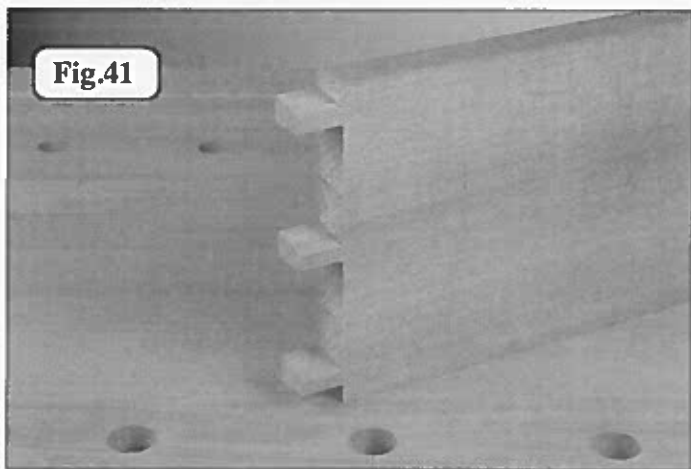


Shop Notes:

The Dovetail jig must rest flat on part of the pins to maintain the correct depth of cut, which will provide a stable work surface.

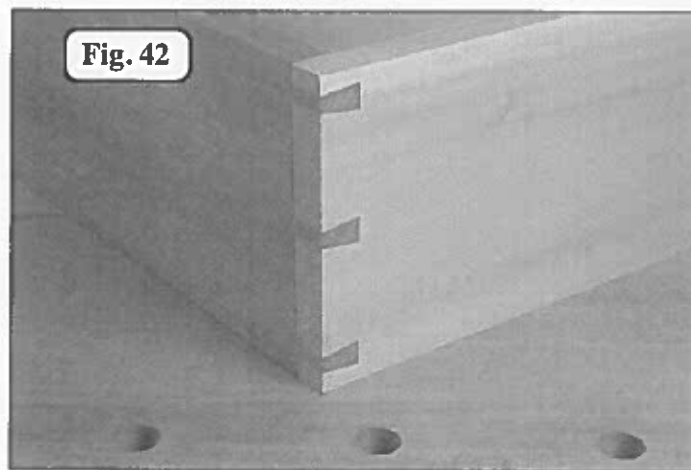
Completed Skip Spacing of Pin Cut:

Your completed tail cut stock should look like the one shown below. See (Fig. 41)



Assemble the Skip Spacing Joint:

Assemble the pin-board and the tail-board. The Joint should have a snug - sliding fit as shown in Fig. 42. If you have to force the joint together with a mallet, it may result in splitting the dovetailed sockets, as well as forcing the glue out of the joint. Too loose of a fit, may produce wobbling and a weak dovetail joint. If you have added the extra 1/32" or more to your joint, it can now be cleaned up by sanding the joint flush after gluing. If satisfied with the fit of your dovetail joint - glue, clamp and finish your project. If the dovetails are in need of adjustment, this is done on the pin side of the dovetail jig (refer previous instruction for joint adjustment).



This method of skip spacing has an endless amount of possibilities when making your projects. It is up to you as to which socket to skip. You can cut one, skip one, cut one, skip one, or cut two, skip one, cut two - simply mix it up. You will also use this same basic principal to slide the jig one side to make wider pins and tails.

Shop Notes:

When using either method of skip spacing or slide spacing, the jig must rest flat on part of the pins to maintain the correct depth, which will provide a stable work surface.

Create Box or Hinge Joints

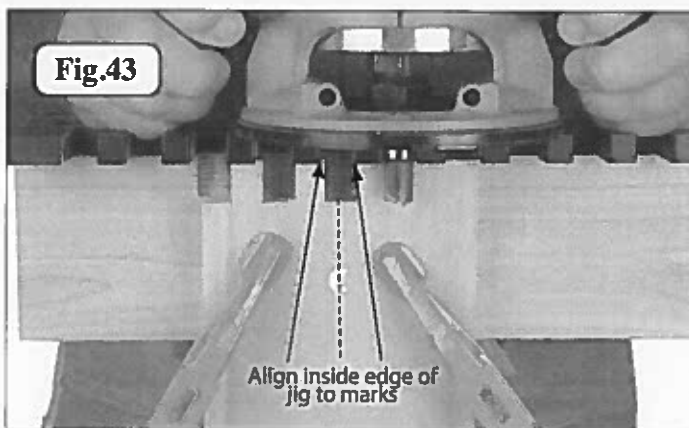
Box Joints / Hinge Joint:

Your Dovetail Jig is capable of doing box joints in stock from 5/8" to 3/4" thick, using the tail side of the jig only with an optional box-joint router bit and bearing (sold separately). The fingers will be spaced 9/16" on center.



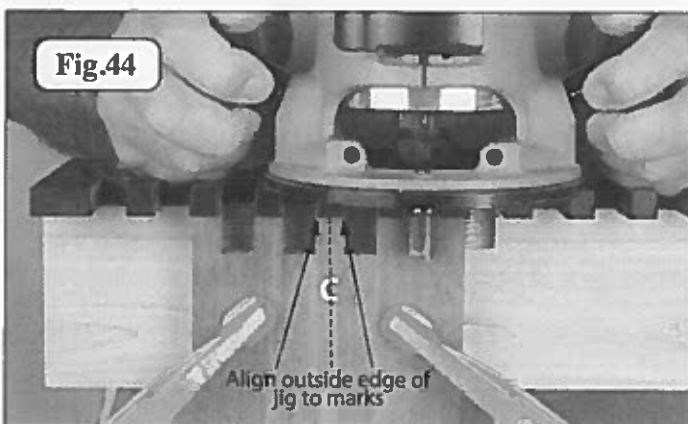
Cutting the joint:

Install your box joint bit into your router and secure in place. To line up your dovetail jig for making the cut, first mark the center of your stock to be cut. Measure and mark on each side of the center mark at 5/16". Next, align two inside edges of one of the tail side openings of the jig to those marks (See Fig.1 for tail side). Clamp your jig in place, adjust the height of the bit for the stock thickness (previously outlined in this instruction manual), then make the cut. See (Fig. 43)



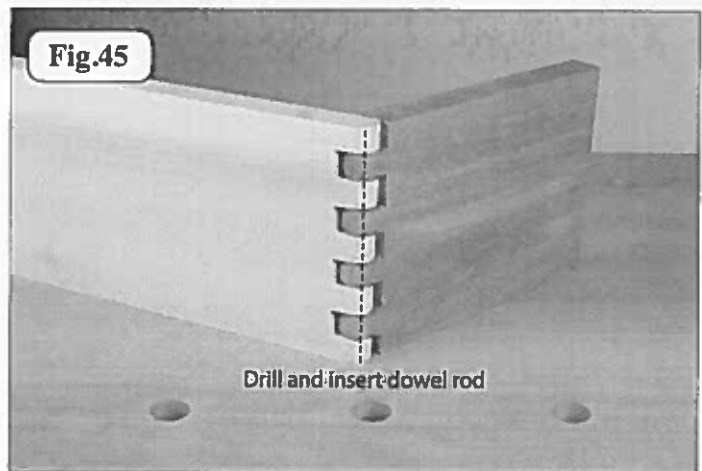
Opposing Joint Cut:

To line up your dovetail jig for making the opposing cut, mark the center of your stock to be cut. Measure and mark on each side of the center mark at 1/4". Next, align two outside edges of one of the tail side fingers of the jig to those marks. Clamp your jig in place, then make the cut. See (Fig. 44)



Assemble the Box Joint

The Joint should have a snug - sliding fit. If you have to force the joint together with a mallet, it may result in splitting the stock, as well as forcing the glue out of the joint. If you have added the extra 1/16" or more to your joint, it can now be cleaned up by sanding the joint flush after gluing. If satisfied with the fit of your box joint - glue, clamp and finish your project. We have decided to make our version into a moveable hinge joint. To do this we have rounded over both sides of the stock with a 3/8" roundover router bit prior to cutting the stock. Once the joint was complete, we drilled a 3/8" hole down the length of the joint and inserted a dowel rod (See Fig 45).



Scan this code with your phone or tablet for Full Instructional Video



Or type in this address: <https://youtu.be/FTcM5XPVrnCY>

The Peachtree Dovetail Jig

The Dovetail Jig 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 Dovetail Jig!

Add-on's & Accessories

Scan this code with your phone or tablet for Router Bits and Accessories!



Or type in this address: https://www.ptreeusa.com/rtr_jigs_dovetail_wiz.html

Extending Your Dovetail Jig

Overlapping the Tabs

The Dovetail Jig has tabs on both ends of the jig. The tabs allow you to secure two or more Dovetail Jigs together. Take 2 Dovetail Jigs (Add-on template part #3577 sold separately) and overlap the tabs (Fig. 46). Install the two machine screws, but do not completely tighten. Next, Place the extended jig assembly up against a straight edge or ruler and make sure the jig is sitting flush up against it. Check for any gaps between the jig and the straight edge / ruler. Once the jig is sitting flat up against, tighten the two machine screws firmly (Fig. 47).

Fig.46

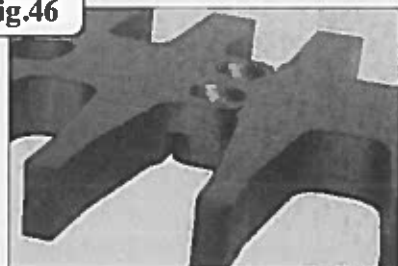
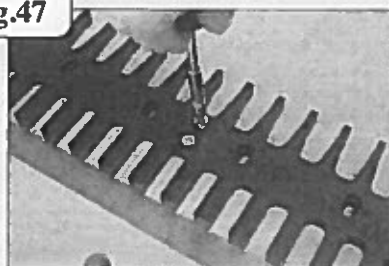


Fig.47



Mounting The Extended Jig

Mounting the extended jig works the same way as mounting a single jig. The only difference is the length of the block. When making the block, follow the instructions detailed in the beginning of this instruction booklet on page 3 (Prepare the Mounting Block / Mount the Jig to the Mounting Block, Fig. 1), but make the length of the block at least 2½" longer than the jig on each end.

Micro-adjust Your Jig

Installing the Micro-adjust Assemblies

The Micro-adjust assemblies (sold separately - part #3444) fit neatly on to the tabs of the dovetail jig tabs with two machine screws. Before the Micro-adjust assemblies can be installed, you must first have your dovetail jig mounted to the mounting block. When mounting the jig, follow the instructions on page 3 (Mount the Jig to the Mounting Block, Fig. 1). Make sure the screws that secure the dovetail jig to the mounting block are only partially tightened (Fig. 48) to allow for the installation of the Microadjuster.

Note: For proper fit of the Micro-adjust assemblies, the mounting block must extend at least 2½" longer than jig on each end.

Slide the Micro-adjust assemblies under the tabs and align with the pre-drilled holes. Secure the assemblies with the machine screws. Next, align the dovetail jig and the mounting block to the inner scribe line on the jig. Secure the "L" bracket on the Micro-adjust to the mounting block with 2 wood screws. Make sure there is enough space between the "L" bracket and the edge of the mounting block to prevent any splitting of the wood (Fig. 49). Once the Micro-adjust assemblies are secured to the jig and mounting block, tighten the screws that hold the dovetail jig to the mounting block before making your first test cut.

Using the Micro-adjust

To make adjustments with the Micro-adjust assemblies, slightly loosen the screws that hold the dovetail jig to the mounting block. Next, turn the knob(s) on the Micro-adjust assemblies clockwise /counter clockwise to move the jig in and out until you find your mark (Fig. 50). Refer back to page 7 (figures 19 and 20) for details on properly making adjustments to the fit of your dovetail joint. Once the jig is correctly adjusted, be sure to tighten the screws that hold the dovetail jig to the mounting block before making another test cut.

Fig.48

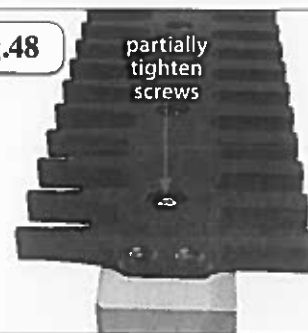


Fig.49

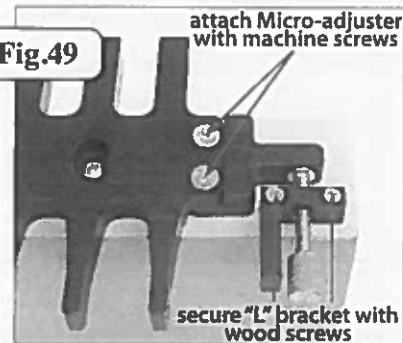


Fig.50

