Introduction

The Router Table Fence is designed for use with Shopsmith's new Routing System (555413), the Free Standing Router Table (555414), and any of the older Shopsmith router tables, when adapted. For the older tables, a kit of inserts allows you to retrofit your older router table so you can make full use of the Router Table Fence.

If your Router Table has a light gray, laminated top and looks similar to Fig.1, then you own the new Router Table. Refer to this literature for instructions on installing and aligning the Router Table Fence on your Router Table. Then refer to your Routing System and Components Owners Manual (PI-5243) for instructions on how to use this Router Table Fence.
INSTALL THE INSERTS (on an older style router table)

1. When measuring, use two reference points only: the front edge of the table, and the “dead center” of the largest table pin hole. Do not measure from the miter channel.

2. Using light pencil, mark off three equally spaced points along the table, measuring exactly 10" from the front edge.

3. Lay down a straightedge (like a metal ruler or level) lining up the three points you just made. If the points line up perfectly, then lightly pencil a line horizontally across the table. If the dots don’t line up, then start again until they do.

4. Place your 12" combination square over the center of the router bit hole and against the front edge of the table. When you are certain that you have both the “dead center” of the hole AND are 90 degrees across the pencil line, then draw another light pencil line from front to back of the table. This is your vertical reference line.

5. To double check, measure the vertical line to the back right edge of the table. Then measure from the vertical line to the front right edge. If the two measurements differ, start again until they are the same.

6. After you have successfully drawn your two reference lines, measure exactly 5-1/4" to the right of your vertical line and make a pencil dot on your horizontal line.

7. Starting from the pencil dot, measure 6-1/16" to the right of the dot and make a second pencil dot on the horizontal line.

8. Do the same for the left side of the vertical line, using the 5-1/4" and 6-1/16" measurements. These dots you have made along the horizontal line are the center points where you will drill holes for the inserts. Double check your dot placements by placing the right and left fences over their respective dots. If any dot does not line up correctly, remeasure. Accuracy is important—especially before you actually drill holes into the table.
10. After the counterbores are completed, drill a 5/16" diameter hole in the center of each counterbore, going through the table.

11. Using the supplied Allen wrench, thread an insert into each of the four holes. You may need to push down hard to start the insert into its hole, but it should go in easily after the first revolution.

NOTE
This row of inserts positions the fence for edging and grooving applications. If you want to add more rows for other placements of the fence, you can purchase more inserts (515582) and put them where you want.

INSTALL THE ROUTER TABLE FENCE

1. Line up the fences over their respective holes in the inserts.

2. For all four knobs, place a spacer (6) and special washer (7) between the knob and the fence, then tighten the knobs onto the fences.

ALIGN THE ROUTER TABLE FENCE

INTRODUCTION

WARNING
Make sure that each side of the Router Table Fence is aligned and all knobs are securely tightened before you begin routing operations.

There are two ways to align the Router Table Fence:

a. The Straightedge Method is easier than the Miter Gauge/Stop Rod Method when the router bit is removed. Also, it is more accurate when the situation calls for both sides of the Router Table Fence to be in precise, straight alignment with each other.

b. The Miter Gauge/Stop Rod Method is easier than the Straightedge Method for when the router bit is installed in the router. It is also better for when you align the Router Table Fence for use during offset routing cuts in which you remove the workpiece's face (held against the infeed side of the Router Table Fence).

NOTE
For Router Table Fence alignment where the outfeed side (left hand side for undertable routing and right hand side for overarm routing) is offset, the amount that the outfeed side is forward depends on the profile of the workpiece as it leaves the router bit. To do the appropriate offset on the outfeed side, refer to the Router System and Components Owners Manual (PL-5243), pages 18 and 43.

Also, always run a test cut on scrap wood before you actually cut the workpiece.
The Straightedge Method—

1. Place a straightedge on the router table where you want the Router Table Fence to be, as in Fig.4. Then lightly clamp or tape the straightedge in place.

2. Line up both sides of the Router Table Fence along the edge.

3. Tighten the knobs on each side of the Router Table Fence.

4. Double check the alignment, because the twisting action of a knob screw as it is being tightened may slightly move a Router Table Fence before it is locked in place.

The Miter Gauge/Stop Rod Method—

1. Install the stop rod in the miter gauge with the stop rod untightened. Then place the miter gauge/stop rod in the router table channel and directly opposite a nut and slot on the side of the Router Table Fence you wish to align first.

2. Determine where you want to place one side of the Router Table Fence, and lightly touch the stop rod to its surface directly opposite the nut and slot. See Fig.5.

3. Tighten the stop rod.

4. While the stop rod is directly opposite a knob and slot on the side of the Router Table Fence you wish to align first, adjust the Router Table Fence, then tighten the knob. Move the stop rod to the other knob and slot, adjust the Router Table Fence, and then tighten the knob.

5. Double check the alignment, because the twisting action of a knob as it being tightened could slightly twist the Router Table Fence out of alignment before it is locked in place.

6. After the first fence is adjusted, repeat Steps 1 through 5 for the other side of the Router Table Fence. Fig.6 shows rechecking alignment along the left Router Table Fence.

NOTE
Recheck each side of the Router Table Fence for alignment before you proceed with routing the workpiece. If one side is offset from the other, then you must recheck it before you re-adjust the stop rod.