

# Drill Press Alignment



### Delta Woodworker's Drill Press Model# 17-950L

- 16 ½" capacity
- Large tilting table with 'T' track slots and replaceable center
- Laser Crosshair
- 12 speeds via belt settings – 250 rpm to 3,000 rpm



### Alignment with the A-Line-It Deluxe Kit

- Dial indicator and tips
- Mounting bars
- Instructions for drill press, table saw and router alignment
- From In-Line Industries - \$144.95

## Overview

- Step 1 - *Get the drill press ready - clean & safe*
- Step 2 - *Check the spindle and chuck run out*
- Step 3 - *Align the table to the spindle*
- Step 4 - *Alternative alignment tool*
- Step 5 - *Accessory table*

## Step One



**SAFETY FIRST** - Before you start the alignment!

- Unplug the power cord and test the switch
- Remove the belts – it makes rotating the spindle easier

## Step Two – Gauge setup



### Check the “run-out” of the spindle & chuck

- Attach the dial indicator to the straight bar
- Insert the center post into the chuck with the threaded end down
- Tighten at all three points
- Clamp the dial indicator to the table and center the point on the round center post

## Step Two



Tightening the chuck at one point

•.008" error



## Step Two



Tightening the chuck at three points

•.002" error



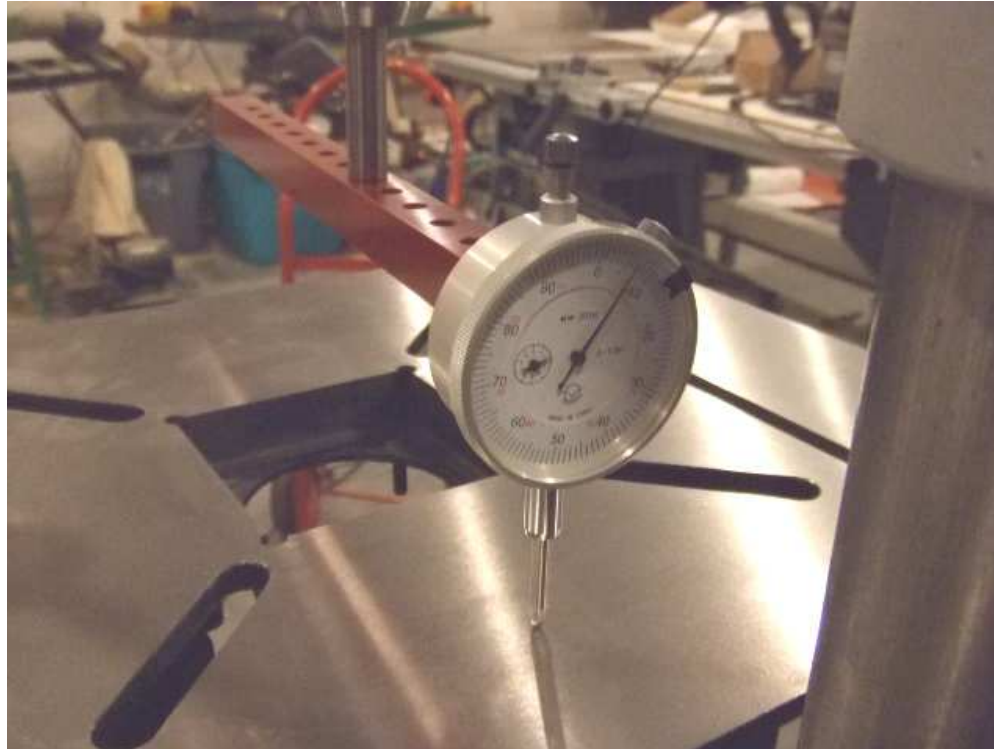
## Step Three



### Table Alignment

- Tighten the table elevation clamp
- Attach the bar to the center post set to the longest length possible
- Measure on all four sides of the table and adjust as necessary

## Step Three



### Table Alignment

- Checking all four sides

## Step Three



### Table Alignment

- Continue to check and adjust all four sides until
- There is no deviation (<.001")

## Step Three



### Table Alignment

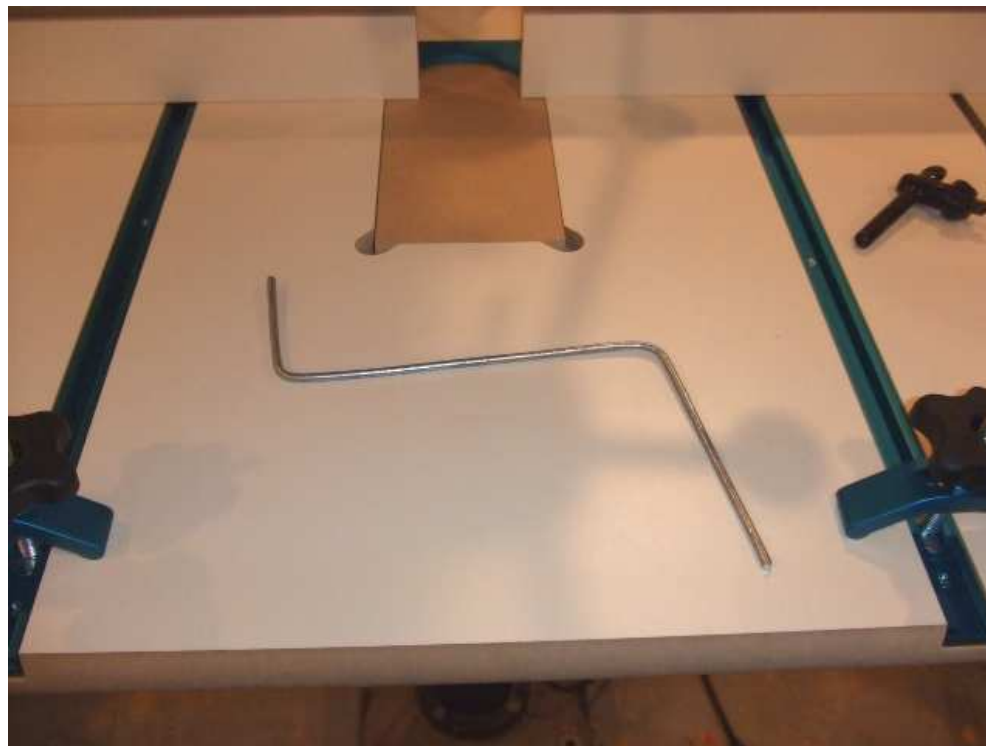
- Continue to check and adjust all four side until
- There is no deviation (<.001")

## Step Three



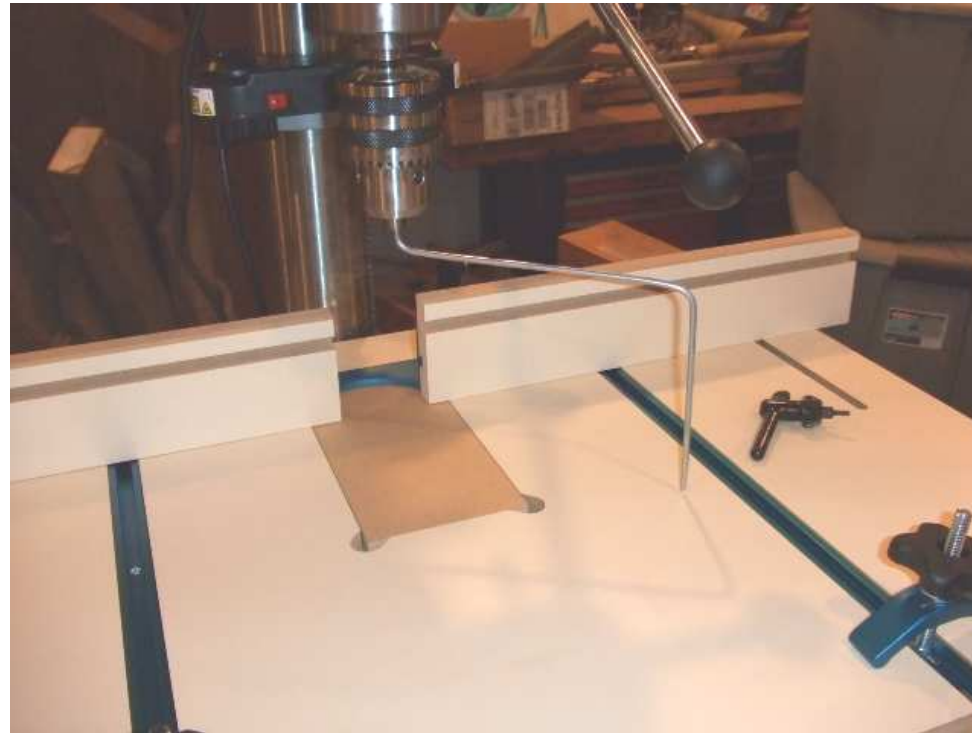
### Table Alignment

- Continue to check and adjust all four side until
- There is no deviation (<.001")



Alternative Alignment Tool

- Stiff wire bent with two 90 degree bends



### Alternative Alignment Tool

- Mount short end in chuck with the long point slightly above the table
- Rotate slowly and check the clearance between the table and the end of the tool
- Adjust the table as necessary





Rockler Auxiliary Table Model# 22810 installed (\$125.99)

- Extra large work surface
- Aluminum fence with “T” track wood inserts
- “T” track for fence and material hold-downs
- Replaceable center insert



### Rockler Auxiliary Table mounting modification

- Designed for the standard “round” table
- Drilled two holes and installed the furnished threaded inserts to align with the slots in the table instead of using the clamps they provided
- Used the provided clamps as material hold-downs on the top of the table