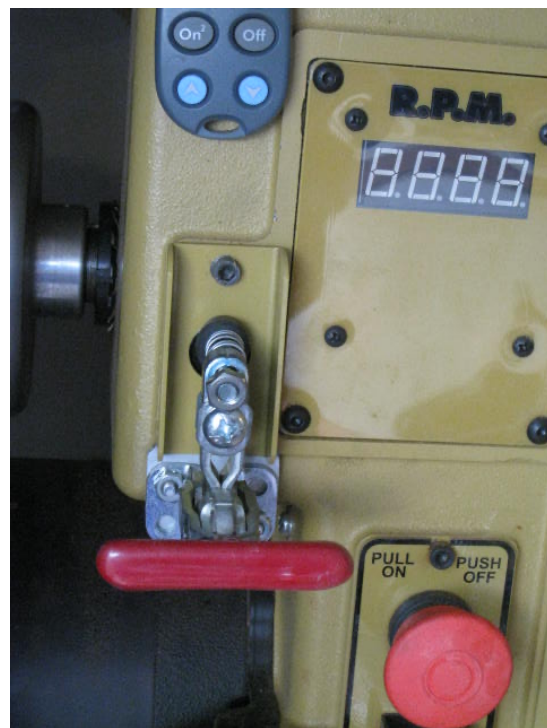
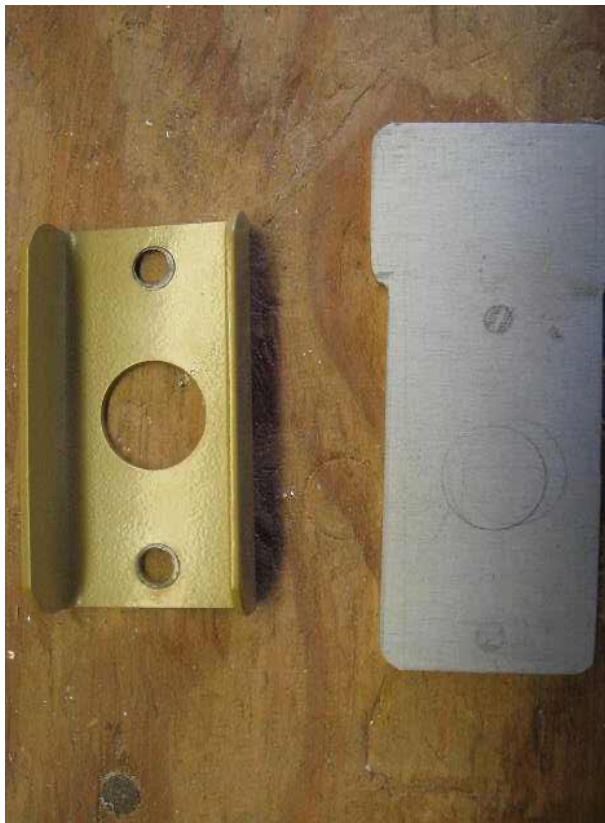


3520B Spindle Lock

I came up with an idea for a spindle lock on the Powermatic 3520B lathe. I got tired of trying to hold the button with my left hand, which I have limited use of, and doing everything else with my right. I decided to use a jig clamp: Destaco #202TU. I added a spring on the plunger. Then made a plate using 0.125 thick aluminum. I mounted the plate between the headstock and the spindle lock bracket. It was mounted with the clamp on the bottom, facing up, so vibration would not allow the clamp to close while the lathe was running and catch the spindle.



I then found I could accidentally start the lathe with the spindle locked. This didn't seem to cause any damage but I did not want to take a chance. So, I added a switch that disabled starting the lathe while the clamp was engaged.



The switch is a Temco model CN101 which crosses to a Honeywell switch BZ-2RW824-A2 if the Temco is not readily available. I mounted the switch on a section of aluminum angle attached using a screw that holds the RPM plate on. The switch is wired in series to the red button start/stop switch using the normally closed contacts. The wire is routed to the back of the lathe and brought inside the headstock to make the connection. When the lever is pushed, the circuit opens and the lathe will not run.



Larry Komroff submitted this to the site.