ADJUSTING THE SUPER SHOP
QUILL SPRING TENSION

Place the machine in the horizontal position before attempting to adjust the quill spring. A diagram of the parts referred to in these instructions can be found on page 62 of the Super Shop owners’ manual. MAKE SURE THE MACHINE IS UNPLUGGED BEFORE BEGINNING AND MAINTENANCE OR REPAIRS!

1. Remove the SS 302 setscrew from the top of the headstock.
2. Crank the quill out until it disengages from the quill feed gear and the quill stops moving. The quill is still about 2 inches inside the head so you do not have to worry about it falling out of the machine.
3. Slowly let the quill handle unwind which lets the tension off the retract spring. DO NOT continue to turn the handle backwards after the tension is gone from the spring. This can cause the spring to disengage from the SS331 shaft. If the quill is to be removed from the machine, stop at this point and pull the quill out of the headstock.
4. As viewed from the operators’ side of the machine, rotate the feed handle 1-1/2 to 2 turns clockwise to tension the spring. Stop when one of the handles is pointing straight up as shown below.

![Diagram of quill spring tension](image)

1. If the spring has come loose from the SS331 shaft, remove the SS346 cover, SS345 nut, and the SS344 knob. Unscrew the SS340 lock and slide the SS339 dial off the end of the shaft. With a pair of long nose pliers or a screwdriver, slip the end of the SS337 spring back over the SS333 screw on the side of the haft.
2. Push the end of the quill into the SS337 gear and when the two engage, retract the quill.
3. It may be necessary to rotate the end of the quill spindle to align the splines of the SS313 pulley to the splines on the quill.
4. When the quill is fully retracted the SS343 handles should appear in a “Y” pattern as shown below. This keeps the handles from hitting on the bottom of the saw table and restricting the cutting depth. It may be necessary to extend the quill and reposition the handle slightly to achieve the desired final position.

SPRING TENSION CAN BE CHANGED BY PUTTING MORE OR LESS TURNS ON THE QUILL FEED HANDLE BEFORE ENGAGING THE QUILL AND THE HANDLE TOGETHER. TENSION THE SPRING TO YOUR PERSONAL PREFERENCE.

1. Install the SS302 setscrew into the top of the headstock while moving the quill in and out slightly. This assures that the setscrew will go into the slot on the quill properly. Tighten the setscrew until a slight drag is felt on the quill then loosen just enough to get a free movement of the quill.

2. Check the SS353 lock for operation.

3. Install the quill depth gage, lock and handle if they were removed to reattach the spring.

4. Test run unit.