

## REPLACING THE SEMI-PERMANENT SPIRAL

Products No. Q178 & Q180  
SPIRAL SEMI-PERMANENT LH & RH

### 1.0 OVERVIEW

When the threads of the spiral wear out, replacement of the semi-permanent spiral is necessary.

### 2.0 REMOVING THE SPIRAL

2.1 Turn off the lathe and disconnect the power cord.

2.2 Using the 0.050" hex socket wrench provided, remove the small 4-40 set screw.

2.3 Move the handle to the open collet position (6:00 o'clock).

2.4 Insert a 1/8" diameter rod into the hole in the spiral. Using the rod as a wrench, turn the spiral counterclockwise to unscrew. If the spiral turns but will not unscrew, see section 5.0, REMOVING A STUCK SPIRAL.

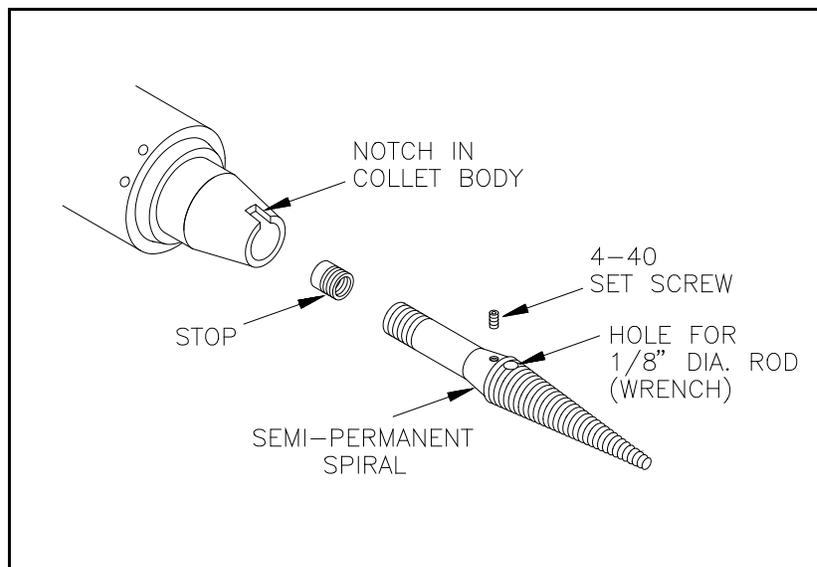


Figure 1.

### 3.0 CLEANING THE COLLET BODY

3.2 Clean the inside of the collet body so the semi-permanent spiral will seat against the stop located in the bottom of the hole. It is not necessary to remove the stop, however, it may come out during cleaning. Clean the threads using a pipe cleaner or Q-tip. Clean out all the debris in the bottom of the hole. **Do not use solvent inside the collet body.**

### 4.0 INSTALLING THE SPIRAL

4.1 Place the stop into the hole in the collet body if it was removed.

4.2 Put a **THIN** film of grease or Vaseline on the threads of the spiral that fit inside the collet body. Also apply a little around the tapered section.

4.3 Insert the spiral and tighten with a 1/8" diameter rod. Turn the spiral until the small threaded hole for the 4-40 set screw is aligned with the notch in the collet body.

4.4 Put the 4-40 set screw onto the wrench and thread it into its hole. Screw it in so it is just below the surface of the collet body.

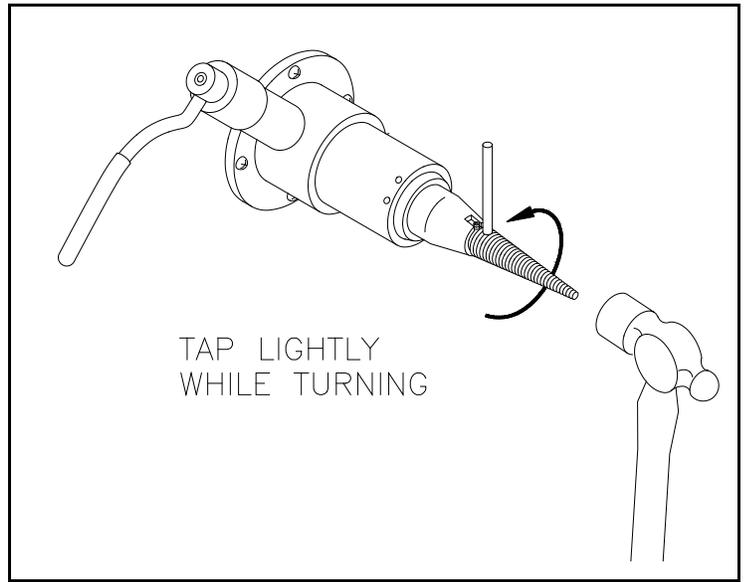
4.5 Move the handle to the operating position.

4.6 Connect the power cord and test the operation of the Quick Chuck.

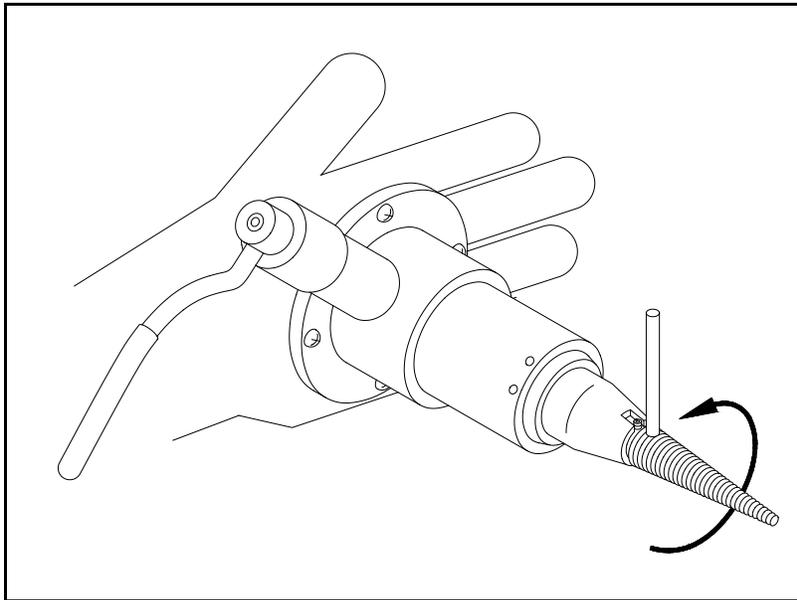
The installation of the semi-permanent spiral is now complete. If you have any questions or difficulties, please call Wells Dental, Inc. at 1 800 233-0521.

**5.0 REMOVING A STUCK SPIRAL**

- 5.1 Turn off the lathe and disconnect the power cord.
- 5.2 Move the handle to the open collet position (6:00 o'clock)..
- 5.3 Insert the 1/8" diameter. rod. Tap the end of the spiral **LIGHTLY** while turning the rod counterclockwise. See Figure 2. If this does not release the spiral, continue with the next step.
- 5.4 Check that the handle is in the open collet position. Remove the four installation screws and remove the Quick Chuck.
- 5.5 Hold the steel clutch plate to keep it from turning while you remove the spiral. See Figure 3.
- 5.6 Install the Quick Chuck on the lathe using the four installation screws.



**Figure 2.**



**Figure 3.**