Removing Worn Shafts and Sheaths

Always be sure your power tool is unplugged during maintenance procedures!

Shafts and sheaths last longer when they are not used at sharp angles or loops, since wear occurs at the points of greatest friction. There is no way to avoid ultimate wear, and under normal conditions a flexible shaft machine may require several replacement shafts and sheaths during its lifetime.

1. **First, remove the handpiece** by simply pulling the handpiece off the shaft and sheath with a firm grip.
2. **Loosen set screw** on motor connector.
3. **Slide outer sheath out** of motor connector.
4. **Remove motor connector** with 1" open end or adjustable wrench. Motor connector has a left hand thread and must be turned clockwise (right) for removal.
5. **Loosen set screw** on the flexible shaft motor coupling and slide shaft off the motor shaft.

**Installation of New Shaft**

7. **Tighten set screw** securely onto the flat of the motor shaft.
8. **Slide motor connector** back up over the shaft and tighten to the left (counterclockwise).
9. **Slide sheath over flexible shaft with plain fitting** toward the motor and into the motor connector. (Each end of the sheath has a metal fitting. One is plain, the other has a groove around it to fit the handpiece.)

**Shaft and Sheath Adjustment**

10. **Place the entire unit** on a flat surface with shaft and sheath extended straight.
11. **Adjust the exposed tip of the flexible shaft** at the handpiece end so that it extends 3/4" (19mm) beyond the sheath.
12. **To re-attach handpiece**, look into the back end of the handpiece for the keyway. Be sure that the key tip of the flexible shaft is properly lined up with the keyway slot in the back end of the handpiece and push it on. If it is not in line, turn the shaft tip or the handpiece to the correct position.