

## Carvey – Changing the Bit

### Step 1: Locate the two wrenches

- One wrench is smaller than the other. The smaller wrench is used on the spindle flats, the larger wrench on the collet nut.



### Step 2: Position the smaller wrench on the spindle flats

- Slide the upper wrench onto the two flat places near the top of the spindle.
- Generally, it works best to do this with your non-dominant hand.
- You will use this wrench to hold the spindle still while loosening the collet nut with the other wrench.



### Step 3: Position the larger wrench on the collet nut

- Slide the larger wrench onto the hexagonal collet nut towards the bottom of the spindle.
- Generally, it works best to do this with your dominant hand.



### Step 4: Loosen the collet nut with the wrenches

- Hold the spindle still with the upper wrench as you turn the lower wrench to loosen the nut



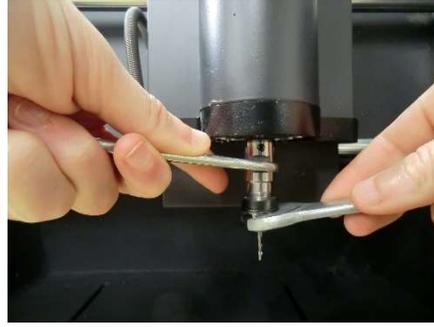
### Step 5: Turn the nut to its second break-point

- Once the nut has been loosened with the wrenches, turn it by hand until it won't turn easily any more.
- It is easiest to do this if you keep the upper wrench in place on the spindle flats to keep the whole spindle from turning.



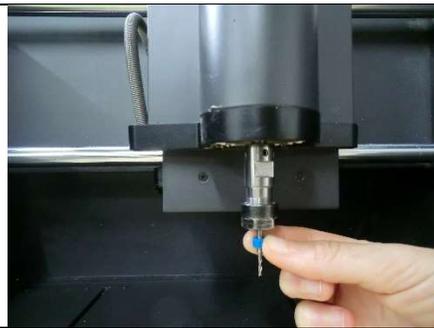
**Step 6: Loosen the nut past its second break-point**

- Use the two wrenches again to loosen the nut one more time.
- Once you have got past this second break-point, the nut is as loose as it needs to be.



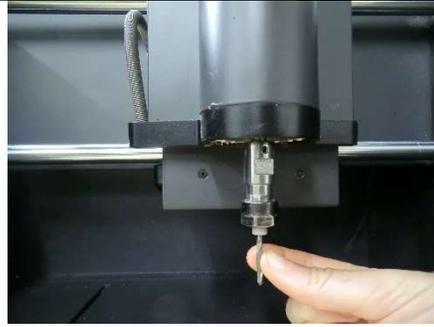
**Step 7: Pull the bit out of the bottom of the collet**

- Pull the bit straight down until it is free of the collet



**Step 8: Insert the new bit**

- Push the new bit up into the collet until the colored plastic color hits the collet



**Step 9: Tighten the collet**

- With the upper wrench in position to hold the spindle still, hand-tighten the collet nut.
- Use the lower wrench to finish tightening the nut. It should be firmly tightened, but it is not necessary to use gorilla-strength to tighten it down

