

# Copper Tubing Photo Frame

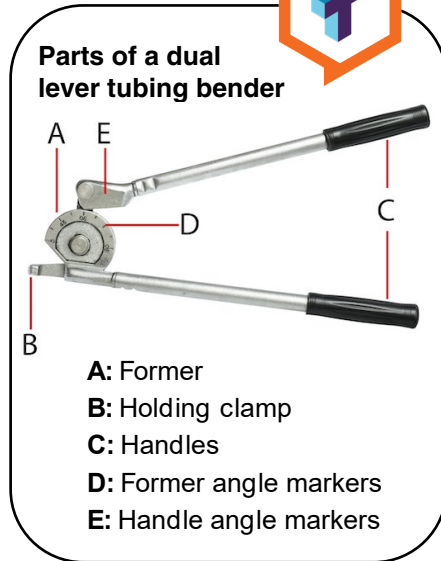
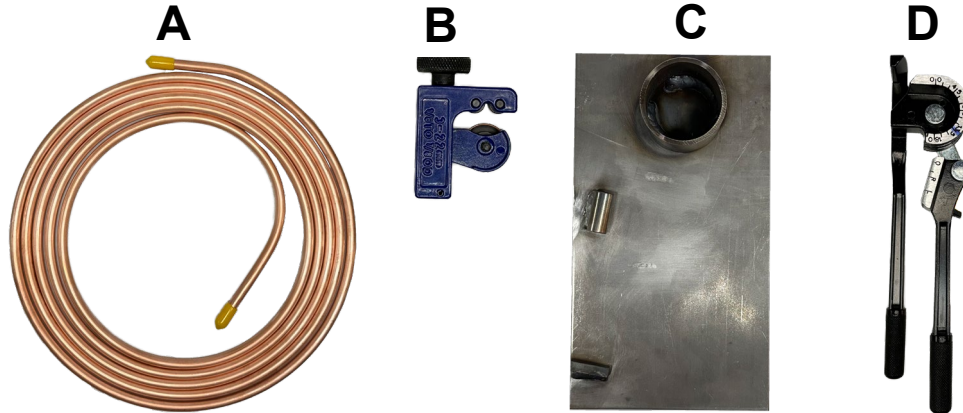


Refrigeration Technology



# Copper Tubing Photo Frame

- Provided Materials**
- Copper tubing (A)
  - Tubing cutter (B)
  - Bending jig (C)
  - Dual lever tubing bender (D)
  - Camera and film
  - Safety Glasses
  - Work Gloves
- Required Materials**
- Felt pen
  - Measuring device



**Safety First.**  
Before you begin, put on safety glasses and work gloves.

## Instructions

1. Mark the tubing
  - Measure 23 ¾" of tubing (A). Mark a line with a felt pen.



2. Cut the tubing
  - Using the tubing cutter (B), carefully cut the tubing by rotating the cutter around the work, turning the knob one half turn clockwise for each rotation of the tool. Do not apply excessive pressure with the knob, as this may squash the tubing.



3. Bend the tubing on the jig
  - Place the cut length of tubing on the bending jig (C).
  - Place one end against the lower stop.
  - Place the free end between the side stop and the cylinder.
  - The free end will extend beyond the upper end of the jig (Fig.1).

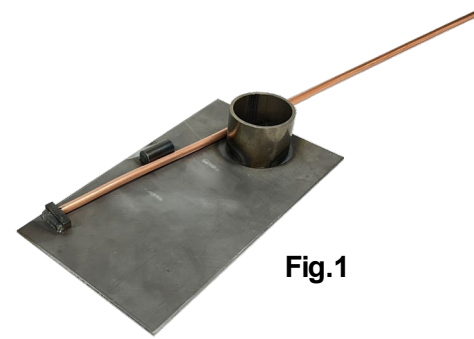


Fig.1

- By hand, bend the free end of the tubing to the right around the cylinder until it points toward the lower end of the jig (Fig.2).
- Continue to bend the free end of the tubing to the left around the cylinder until it points beyond the upper end of the jig (Fig.3).
- Continue to bend the free end of the tubing to the right around the cylinder until it points toward the lower end of the jig, mirroring the angle of the stabilized end (Fig.4).



**Fig.2**



**Fig.3**



**Fig.4**

4. Bend the tubing in the dual lever tubing bender to make feet for the photo frame.

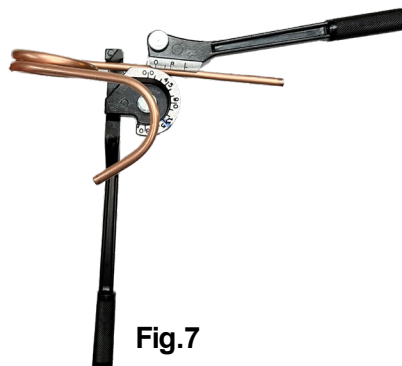
- Pull the handles apart to open the bender.
- Place the tubing on the former and hold it in place with the circle against the holding clamp and the free end of one leg against the handle angle markers. The 0 handle angle mark must line up with the 0 former angle mark (Fig.5).
- Bend the pipe until the 0 handle angle mark on the handle lines up with the 135 former angle mark (Fig.6).
- Pull the handles apart again to remove the bent tubing from the former.
- Do the same to the other leg (Figs.7 and 8).



**Fig.5**



**Fig.6**



**Fig.7**



**Fig.8**

5. Finish the photo frame.

- Follow the instructions to load the camera. Take a photo and display it on your frame!



A tubing bender is a tool used to form accurate angles and curves in piping of different materials, such as copper or steel, often for plumbing or electrical work.



Follow this QR code to view the instructions in video form, or visit: [www.youtube.com/@skillsalberta](http://www.youtube.com/@skillsalberta)



**Try-A-Trade Takeout Program**

Copper Tubing Photo Frame

V1

Material: Copper

Trade: Refrigeration