



*Creations*

**Woodshop**

*youngfoundations.org*

## **WOODSHOP FLY BOX**

AGE: 12-28

ESTIMATED LENGTH: 3 HOURS

### **NEEDED MATERIALS:**

- Two pieces of wood (3 3/8" x 5 3/4" x 11/16")
- Some sort of finish. Could be a polyurethane, lacquer, an oil, or whatever you prefer. We used mineral oil.
- A pair of 1/4" earth magnets.
- Cork or foam to stick the flies into. (You can get inserts just for fly boxes)
- 7/8" x 9/16" barbed hinges from Woodcraft or Amazon.
- Wood glue

### **TOOLS NEEDED:**

- Table saw
- Miter saw
- Drill press
- Router with a 1/4" round over bit, 1/2" double flute straight bit.
- A 3/8" core box bit (for the cork if cork is used)
- 1/4" drill bit
- Sander
- Hammer
- 3/4" wood bit for an Oscillating Multi-Tool ground down to .025" thick. (If you don't have a micrometer to measure thickness, just keep grinding it down until the hinges fit tight when you make a cut into a piece of wood.) You can also use a .025" kerf 2 1/4" diameter saw blade with 5/8"

### **INTRO AND CLASS SUMMARY:**

- Read Scripture and discuss parable.
- Start class with prayer.
- Play and discuss quote during break.

### **SCRIPTURE: Matthew 4:19**

*"And he saith unto them, Follow me, and I will make you Fishers of men."*

### **QUOTE: 63-0630E Is Your Life Worthy Of The Gospel**

Now, how many enjoyed the reading of the Word, and the blessings of the Lord? [Congregation says, "Amen."--Ed.] We all do, so greatly.

Now, it's hot, and I know some of you goes back home tonight. I know Brother Rodney and Charlie, and them, has to drive a long ways. And wait a minute, you're on vacation, aren't you? Well, I hear you're going fishing. **"The Lord don't lot time to the man when he's fishing. You don't get any older while you're fishing."** So, now, you girls go with them. See? And I'll come down and join you, if I can. And you know, "The good Lord," they said, "don't lot time to a man when he's out fishing." **Do lot of it when you--when you feel all twisted up. It's the best thing to relax on, I ever found in my life, is to go fishing.**

### FLY BOX TUTORIAL:

1. To get started you want to first pick out the wood you want to use. Try to find something with a lot of character. You will need two pieces 3 3/8" wide by 5 3/4" long and 1 1/16" thick. Plane down your wood to get your thickness, then rip the width on the table saw and then cut it to length with the miter saw.



2. Make a jig to hold your 2 box covers and router out the inside of each cover. Use a 1/2" straight double flute plunge bit. Leave 3/8" of wood all around the outside. Set the router at 1/4" deep on the first pass

and 9/16" deep on the second and final pass (Two passes makes it easier to control the router).



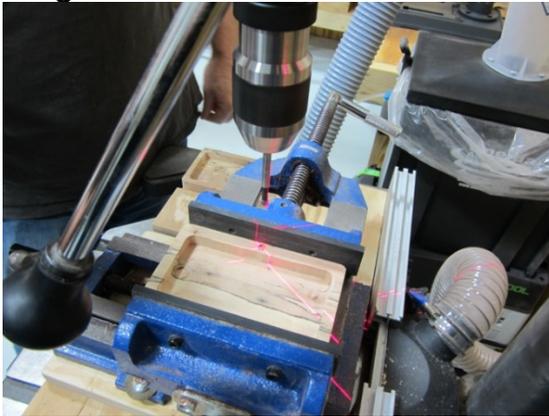
3. Next use a 1/4" round over bit with a router to round over all the outside edges. If you have a router table, stand the covers up to get all 4 corners.



4. Choose your hinge and latch side. Measure to the center of the latch side of each cover and in the center of the 3/8" lip, make a mark. This is where your magnet will go so make sure you measure the same on each piece so the magnets will line up.



5. Use a 1/4" drill bit and drill the same depth as the thickness of your magnet.



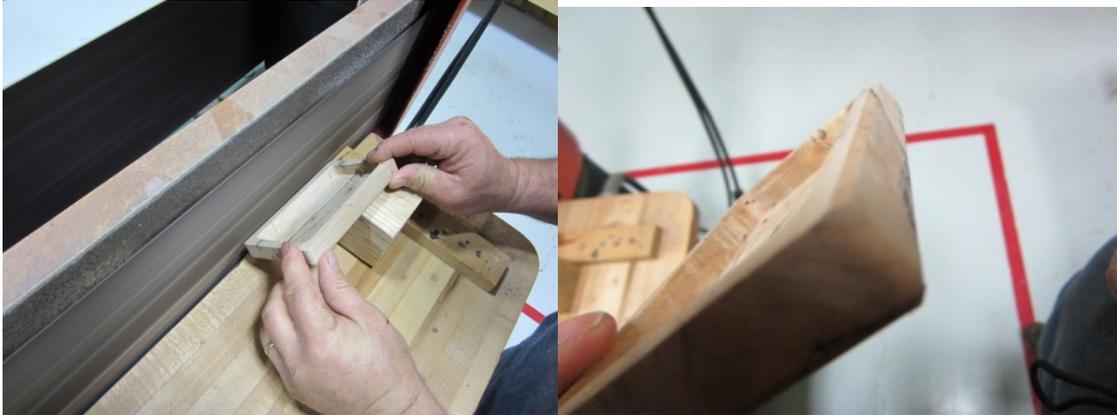
6. Superglue your magnet in using something non-magnetic to hit against them to drive them in. Make sure you have the right side up that will stick to the opposing magnet on the other cover.



7. Sand the covers real good starting at 80 grit and working your way down to at least 220 grit sandpaper.



8. Using a sander put a bevel on the opposite side of your magnets on each cover. This will be for your hinges.



9. Take your  $\frac{3}{4}$ " wide wood blade for your oscillating multi-tool that has been ground down to around .025" or your angle grinder blade and cut a groove in the center of each bevel at an approximately 45 degree angle. Make sure you put your cut in the exact place on each cover so they line up. We came  $\frac{5}{8}$ " from each end to the start of the cut. Make sure also that the cut is deep enough and long enough for the hinge to go all the way in. Next push the hinges in the cuts. If for some reason they ever get loose and come out they can be super glued in.



10. If you use cork, take your thicker piece, if you use two types, and router grooves every  $\frac{1}{2}$ " with a  $\frac{3}{8}$ " core box bit. (This is for your smaller flies) Then cut cork to fit in the insides of your covers and

glue in with wood glue. If you use the white premade foam inserts you can see your flies better.



11. You can write, draw, or stamp designs on the outside, if you wish, like the stamp below.



12. Apply finish to your box however you choose; Lacquer, Polyurethane, or an Oil of some sort (we used mineral oil).

