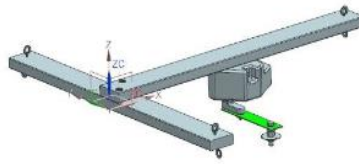


Flying Crank Ghost - Mini

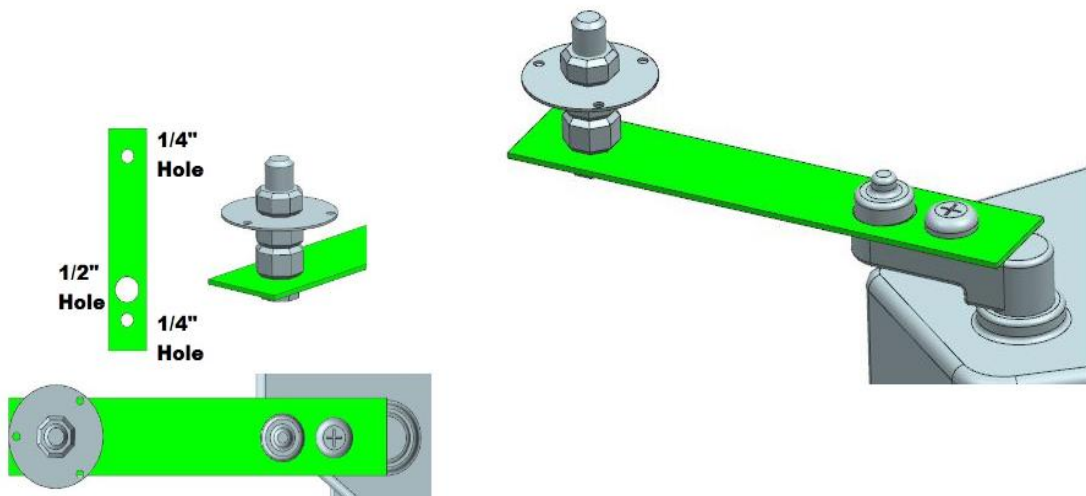
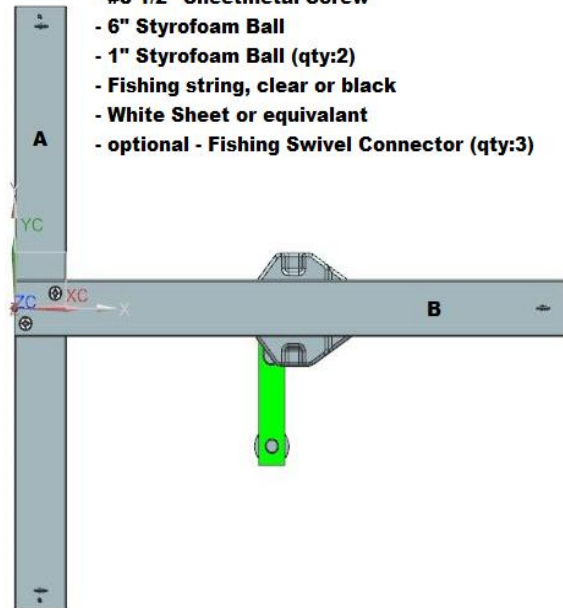


Grocery List:

- 2"x1"x36" Wood
- Reindeer Motor (www.kindys.com)
- 1-1/2" Wood Screws (qty:2)
- Screw Hook, closed loop (qty:6)
- Wire Ties 11" (qty:3)
- Aluminum Flat bar, 1/2" wide, 1/8" thick, need 5" length
- 1/4-20 x 2" Full Thread Bolt
- 1/4" Flat Washer
- 1/4" Flat Washer, 1-1/4" outer diameter
- 1/4-20 Lock Nut (qty:3)
- #8 1/2" Sheetmetal Screw
- 6" Styrofoam Ball
- 1" Styrofoam Ball (qty:2)
- Fishing string, clear or black
- White Sheet or equivalent
- optional - Fishing Swivel Connector (qty:3)

Directions:

- 1 - Cut 2"x1" wood into two 16" Length pieces. Using 2 wood screws, attach boards together as shown. Pre-Drilling holes will prevent possible wood splitting.
- 2- Insert all 6 screw hooks into the boards as shown. The top ones will be used for hanging the prop, the bottom ones will be used for hanging the ghost.
- 3- Cut aluminum bar to 5" in length. The 1/4" holes to be drilled are 1/2" from the end of the bar. The 1/2" hole is 1" from the end of the bar.
- 4- Drill 3 holes into the 1/4" Flat Washer that is 1-1/4" in diameter. Note that the holes create a triangle shape.
5. Insert 1/4-20 Bolt with 1/4" Washer into 1/4" hole as shown. Secure with lock nut fully tightened. Screw on another lock nut securely tightened onto same bolt. Add washer with 3 holes in it onto bolt. Add 3rd lock nut to bolt. Do not tighten down fully. Leave loose enough for washer to turn freely.
6. Attach bar to the motor. 1/2" hole should slip over existing motor linkage. once in place, use sheetmetal screw to attach bar to motor linkage as shown.
7. Attach motor to center of piece 'B'. Use the center of the shaft as the reference for center of the motor. Use the wire ties to securely fasten motor to piece 'B'. Once all ties are tightened, the motor should not move.
8. Frame is now complete.



Directions: cont.

9. At this point the frame should be complete.

10. To create the ghost, you can use a sheet or any type of cloth. The lighter the cloth the better. For the head you can use a styrofoam ball, roughly 6" in diameter.

11. Find the center of the sheet. This will be where the ball/head will be. You can use a pencil or any long object to put a hole through the ball at center. You will also need to cut a small hole in the sheet at the center. This is where the fishing line will come through the sheet.

12. Cut 3 pieces of fishing line, roughly 3 yards long. We will cut them shorter later.

13. Take one line and stick through the ball, and tie it around the ball. Only use as much as you need line wise to do this. The rest will be needed later. Stick the end of the line through the hole in the sheet and lift the ball using the line. This should complete the head portion of the ghost. For the arms, you will do the same thing but with the 1" styrofoam balls. I roughly went 2ft out from the head, this may vary depending on the size of your sheet.

14. Now that you have the ghost completed, you can look at the picture below to see how the lines get ran into the frame. Note that you tie the fishing lines into the 3 holes you drilled in the larger washer earlier. Also, make sure you run each line through the correct screw hooks first before tying.

15. In regards to how much close you want your ghost to the frame, that is up to you. I usually have the head about 2ft below the frame minimum, and the arms around 3ft. You can play with that to get the desired look you would like.

16. Now you can use rope or any means you would like to hang the frame/ghost. Using the top 3 screw hooks, try to make sure the frame is level to the ground. This will help the ghost move smoothly.

17. Make sure your power line is out of the way from the moving parts of the frame. You can use additional wire ties to secure it along the frame and out the back of the frame.

