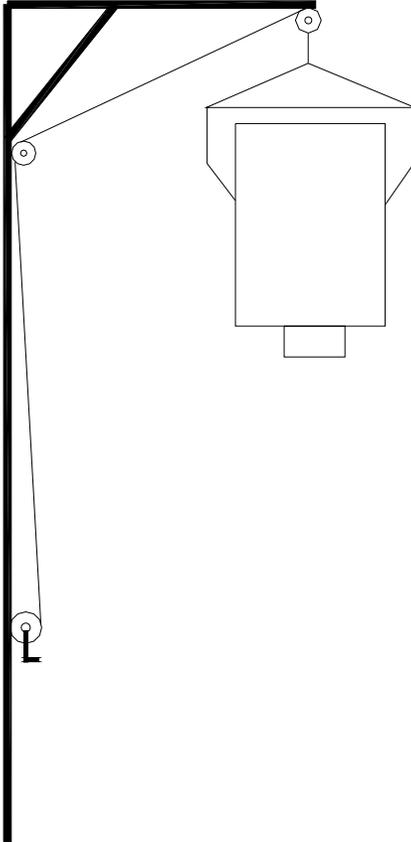


# Pole Suspension Design

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[MyFWC.com](http://MyFWC.com)



**Materials:**

1 - 24 ft. pole, 2½" X 2½" X ¼" square tubing
6 inches of 2" X ¼" flat bar
Two pulleys
900 to 1,000 lb. capacity boat winch or electric winch, if power is available
Approximately 24 ft. of ¼" or 5/16" stainless steel wire cable
Shackles
Feeder barrel with timing device
U-clamps (optional)
Four bags of cement
3/8" X 1" stainless steel bolts

**Read through instructions carefully *before* beginning assembly.**

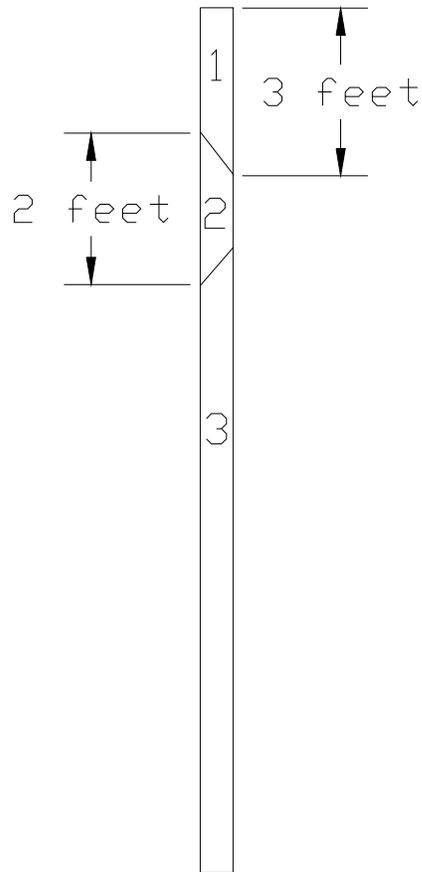


Diagram 1

1. Make a cut at a 45 degree angle 3 feet from the top of the square tubing. Then make another cut 2 feet further down the tubing at a 45 degree angle going in the opposite direction (see Diagram 1). You should now have three pieces of tubing.

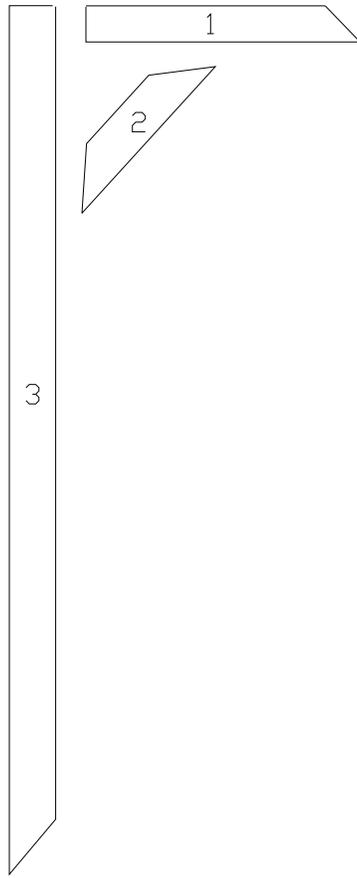


Diagram 2

2. Take Section 3 of the square tubing and invert it so the pointed end will go into the ground. Then take Section 1 of the tubing and align it perpendicularly to the top of Section 3, with the flat end of Section 1 meeting the surface of Section 3 and the pointed end of Section 1 sticking out. Then align Section 2 with the slanted edges lined up with one edge of Section 1 and one edge of Section 3. (See Diagram 2).
3. Weld these sections together as shown in Diagram 2.
4. Cut two pieces from the flatbar for pulley tabs. They should each be 3 inches long and have a hole, of proper size, drilled in them for the shackles.

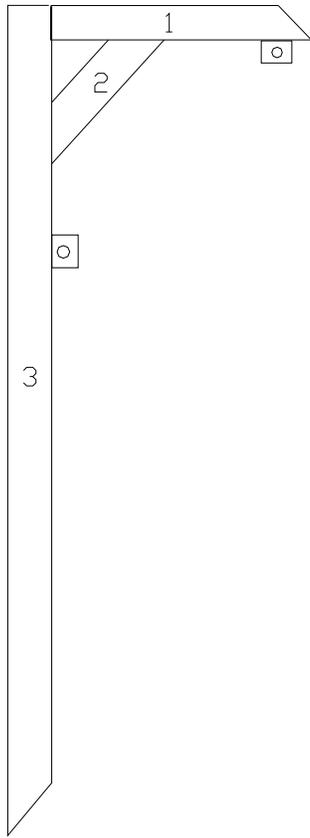


Diagram 3

5. Weld pulley tabs as shown in Diagram 3.
6. Next, weld the 3 bolts to Section 3, seven feet from the top of the pole (three feet above the ground), in a layout to allow attachment of the boat winch to them.
7. Bolt the boat winch to the 3 bolts from step 6.
8. Run the cable through the pulleys.
9. Attach the shackles to the pulleys and attach the other end of shackles to the pulley tabs.
10. Dig a four foot deep hole in the ground and put four bags of cement in the hole along with the appropriate amount of water.

**Note:** The number of bags of cement is dependent on the brand/type used, read the label carefully.

11. Use a tractor or other machine, if needed, to lift the pole into place. Place four feet of the pole into the cement. Brace pole as needed to ensure it is perpendicular to the ground while cement cures (up to 72 hours).
12. Once concrete is set, attach the feeder to the cable with shackles or U-clamps and raise into place using the boat winch, at least 10 feet off the ground.