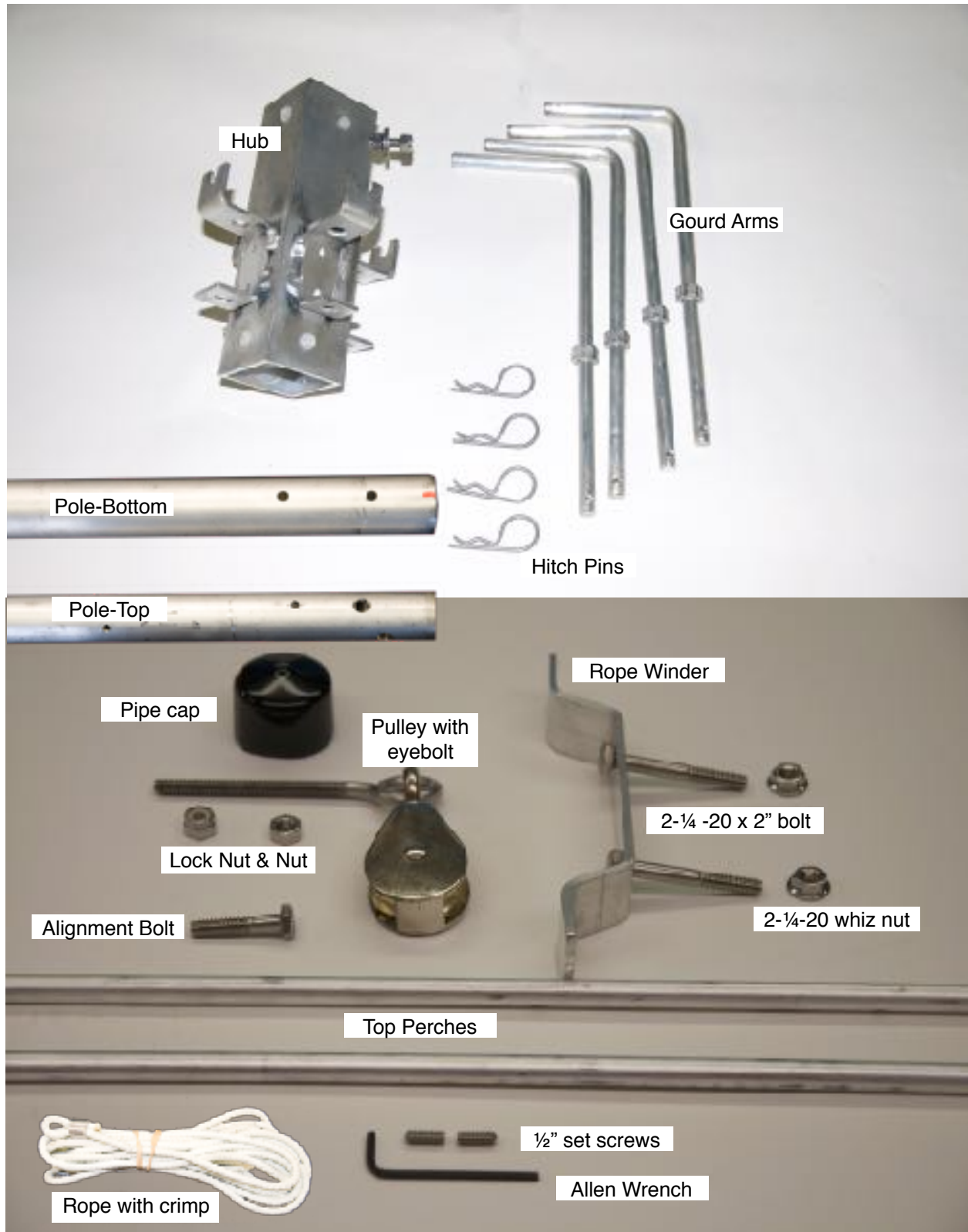


Gourd Rack 4 Unit



Gourd Rack 4 Unit

Step 1) Dig a hole 24" deep by 9 inches wide. Place some pea gravel at the bottom of the hole.

Step 2) Prepare your cement according to the directions on your bag. On average two 80# bag of quick-crete will accomplish the job.

Step 3) Your pipe shipped with the top section slipped inside the lower section of the pipe. Separate the 2 halves. You will be installing the BOTTOM section (or the larger of the 2 pipes). Place the bottom section of the pipe into the hole. Orient the pipe so that you see the pre-drilled holes as well as a small red mark at the top of the pipe, this end up. The red mark can also be used to orient the direction you would like to face your gourd rack.

Step 4) Measure from the bottom of your pipe upwards and mark at 24" Place in hole. Fill your hole with the bottom pipe section in place with cement. You will want your 24" mark to be at ground level, so you may need to pull up on the pipe so that your mark is visible. Make sure your pipe is plumb by using a level on 2 sides of the pipe. Allow your concrete to cure at least 24 hours before finishing the install.

Step 5) Get your hub and attach the rope. Remove the lock nut and one washer from the bolt that comes out the corner of the hub. Then add the rope by placing the end with the crimp on it over the bolt. Add the 2nd washer and then place the lock nut on and tighten.

Step 6) Your bottom pipe section is now set in concrete so we need to complete the rack assembly. Lets begin by installing the top perch rods. Measure



your rods and find the center and mark. Install the top perch rods into the upper most holes in the pipe. Underneath these large holes you will find a small drilled and tapped hole. This is for the set screws that hold the top perches into place. Using your allen wrench thread the 1/2" set screw into the hole and continue to thread the set screw till it makes contact with the top perch perch. Tighten. Repeat for the other top perch.



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Step 7) Slip the black plastic pipe cap onto the top of the pole.



Step 8) The hole below the top perches is for the eyebolt with pulley. First we need to put a nut onto the eyebolt. Thread this nut all the way onto the eyebolt. Take the eyebolt and insert the end of the eyebolt into the hole on the pole. Orient the eyebolt so that the open end is facing up towards the top of your pole (see circle). Place a lock nut onto the end of the eyebolt and using a 7/16" wrench tighten the lock nut till it meets the pole. Make sure its nice and tight and that you have retained the proper orientation of the eyebolt.

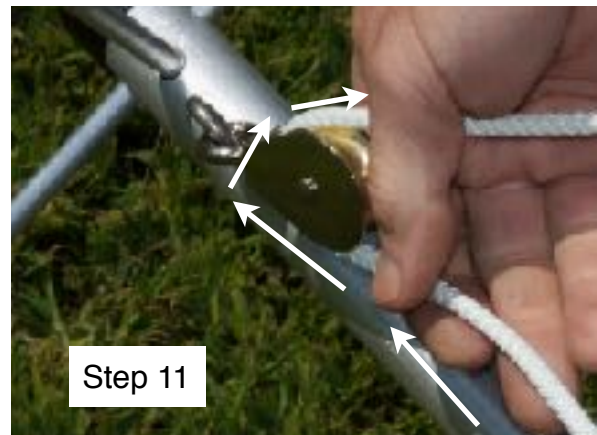


Step 9) Now we need to install the alignment pin. This bolt goes into the pipe underneath the eyebolt-pulley. This hole has been tapped. You will need to use a 7/16" wrench to thread the bolt into the hole. Note, that the bolt can only go so far into the hole.



Step 10) Install the finished hub. Slip the hub onto the pipe by inserting the hub from the bottom of the pipe, upward. You will orient the hub so that the rope is at the top of the hub so as you raise the hub the rope is moving towards the installed eyebolt-pulley.

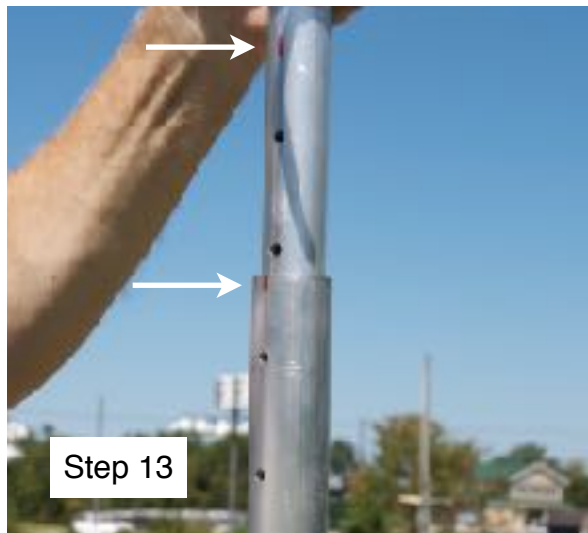
Step 11) Find the end of your rope. Take this end and insert the rope from the back side of the pulley up and over the pulley shaft. The end of your rope is then hanging to the front of the pulley.



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Step 12) Having a helper hold up the upper pipe slide your hub up the pipe. Notice that the hub has a notch in it. This notch in the hub needs to align with the alignment pin and when the hubs' notch slides into the pin you will feel a locking sensations. You have now verified that your hub is assembled correctly. Tie your rope onto the upper pipe section so that your hub will not slide off.

Step 13) Next you will pick up the entire upper section of the pipe. Align the red mark on the upper pipe section to the red mark on the bottom section. Slip the upper section into the bottom section. When the red marks meet the rope winder holes will be perfectly aligned.



Step 14) Have your helper prepare the rope winder by placing the 2, 1/4-20 x 2" bolts into the holes on the winder. These 2 bolts with rope winder will then be installed into the holes of the pipe. Lastly you will thread on the 2, 1/4-20 whiz nuts onto the bolts. Tighten bolts using a 7/16" wrench.



Step 15) Untie your rope from the pipe and lower your hub. It's time to install the gourd arms into the C-brackets. The gourd arms have one end where it has a 45 degree bend. This is the end that goes into the C-bracket.



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Step 16) Slip your Troyer Gourd onto the gourd arm till the gourd hits the stop nut. Insert the hitch pin into the pre-drilled hole at the end of the gourd arm.

Note: If using any other gourd you may need to enlarge the gourds hanging hole to $\frac{3}{8}$ " inch.



Step 17) It's now time to raise your hub. Take hold of the end of the rope. Step back from the pole about 3 feet, and pull on the rope. Your hub will raise towards the top of the pipe. The notch in the hub will need to slide into the alignment pin, thereby locking the hub into the place.

Hanging on to your rope and walk towards the rope winder and wrap the excess rope around the winder.

