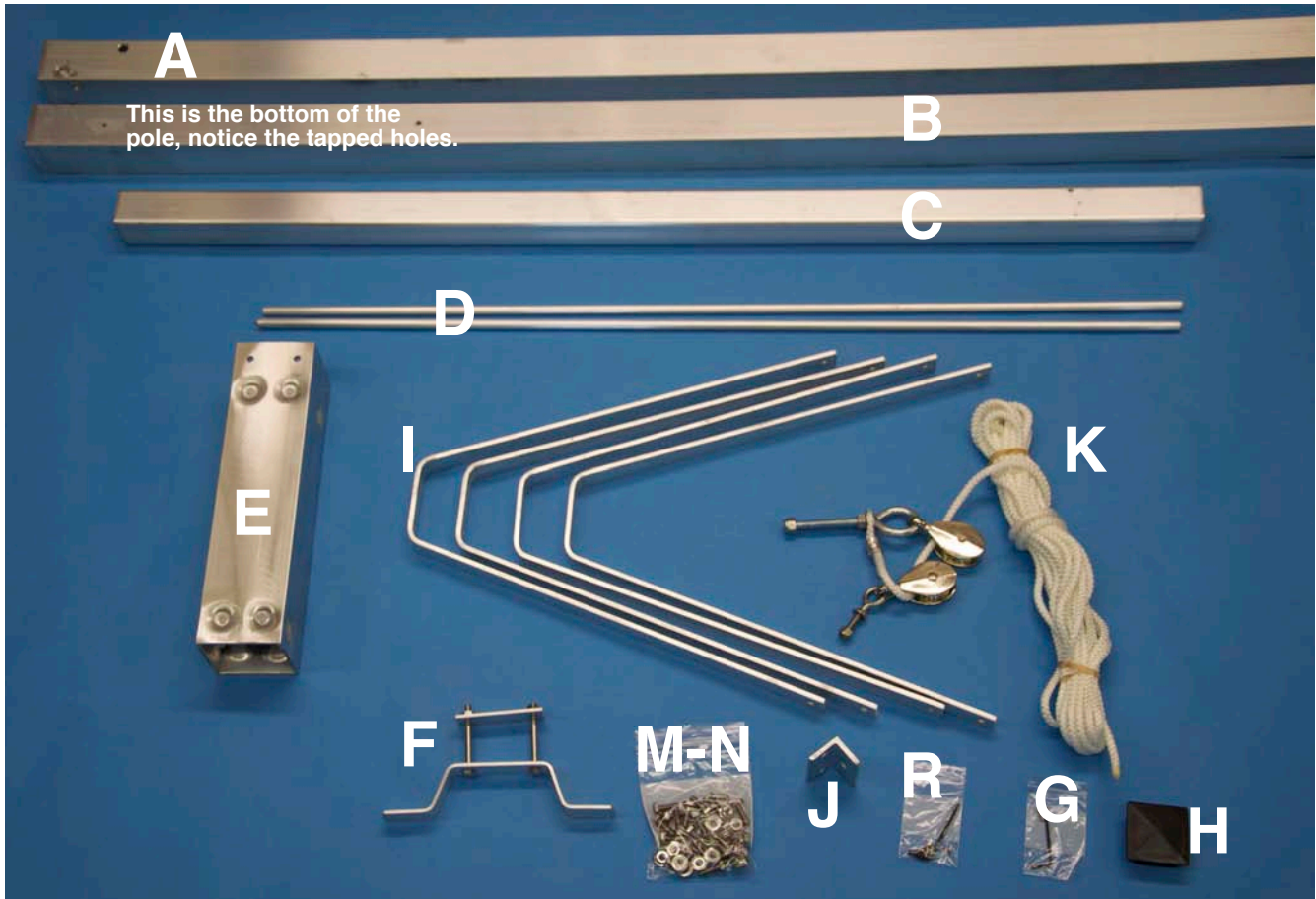


STAR-ter 8 unit Gourd Rack



STOP

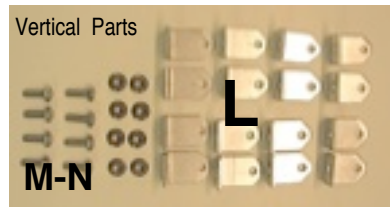
To remove the ground stake from the lower section of pole, retrieve your 1/8 inch allen wrench (R) and remove the set screw that is holding the ground stake into place. This set screw should be thrown away.

Parts List

- A: Top of Pole
- B: Bottom of Pole
- C: 42" Ground Stake
- D: Top Perch rods 36" long
- E: Hub
- F: Rope Winder w/ attached stainless steel hardware
- G: (2) 10 - 24 x 1/4" set screws and allen wrench
- H: Top Cap for pole
- I: 4 angle arms, WITH 8 stainless bolts and nuts
- J: small angle piece
- K: Rope with attached eyebolts and pulleys
- R 4 1/4 - 20 x 1/4" stainless set screws and 1 1/8" allen wrench

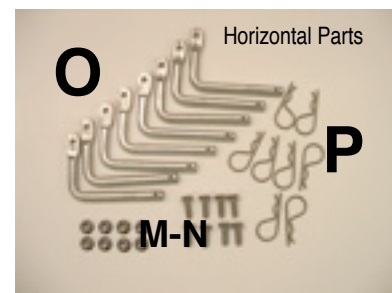
For Vertical Starter:

- L 16 bracket pieces
 - M 8 stainless bolts
 - N 8 Stainless whiz nuts
- OR For Horizontal Starter**
- M 8 stainless bolts
 - N 8 Stainless whiz nuts
 - O 8 gourd mounting arms
 - P 8 Stainless hitch pins

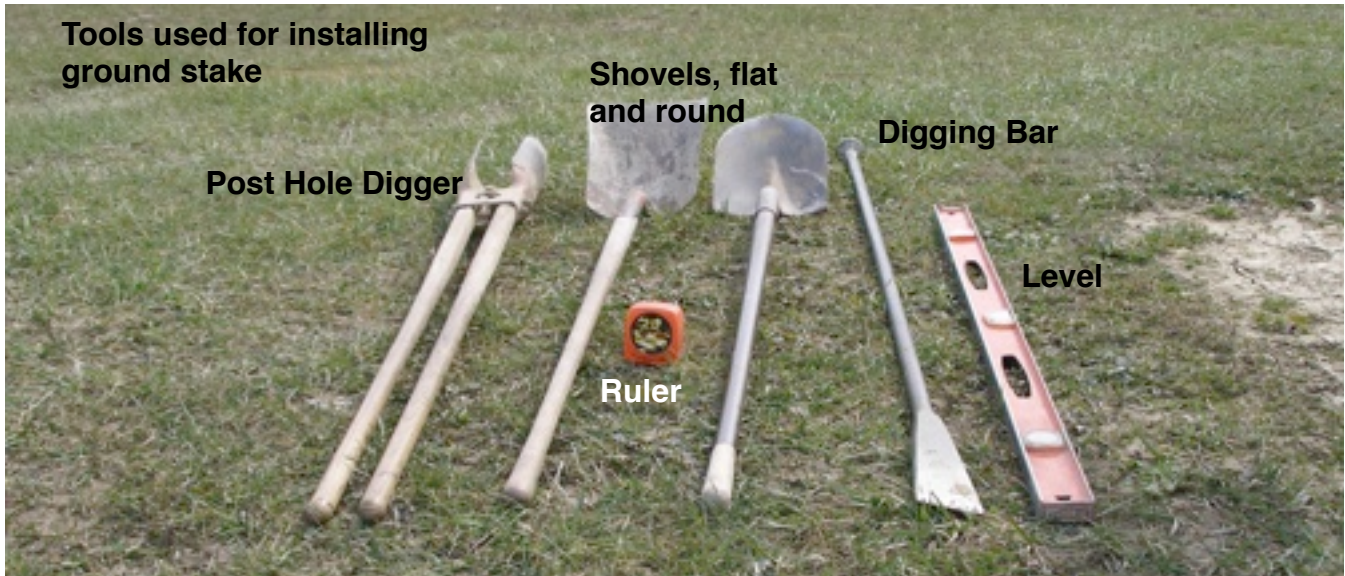


Tools Needed for Assembly

- 7/16" box wrench
- 9/16" box wrench
- Ruler, pencil
- Speed square
- 3 in 1 oil



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The installation of a ground stake is as vital as the foundation of your home. Both need to be done correctly in order to support the housing. Please read and follow these directions. Your rack will only be as good as its foundation.

If you purchased a ground sleeve follow the sleeve instructions, skip steps 1-7.

Step 1 Installing the aluminum ground stake. Using a post hole digger, dig a hole with a minimum depth of 32"-34" deep by 9" in diameter. Poor ground conditions may warrant a larger hole and more concrete. After your hole is dug place about 4" of pea gravel into the hole.



Step 2 Measure and mark all 4 sides of your ground stake 18" from the top down (note, the aluminum ground stake is universal,

no need to worry which end you place in the ground). This will help keep your ground stake at the proper installed above ground height.

Step 3 You will need at least 2 bags of Ready to Use Concrete Mix, 80 pounds each.



Step 4 Empty contents of the ready mix concrete into an old wheel barrow. Mix and handle the concrete according to the directions on the bag.

Step 5 Shovel your wet concrete into your hole to the top of your hole.

Step 6 Insert your ground stake into the cement. Hold the ground stake vertically. You firmly PUSH down several inches then pull up a bit, then push downward, slowly sinking the aluminum stake into the cement. **Stop when the ce-**



ment meets the line drawn on your stake (see circle). Next fill the hollow tube of the stake with cement. To settle the cement in the tube, gently tap the sides of the stake. Finish by sloping the cement away from the stake so water will not puddle against it.



Step 7 Wipe off any concrete from the exterior of the ground stake, check for plumb and that your ground stake is the full 18 inches above ground. Periodically check your ground stake for plumb. For best



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results wait at least 2 days for your concrete to cure.

Step 8 Wipe off any concrete from the exterior of the ground stake, check for plumb and that your ground stake is the full 18 inches above ground. For best results wait at least 2 days for your concrete to cure.

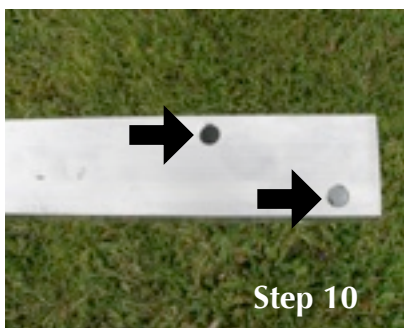
Step 9 Assemble the pole. Notice that your pole consists of a top piece, (A) which has a splice piece installed at one end of the pole and holes on the other end, and a bottom piece (B) which has 4 tapped holes on one end. Uprun a 5 gallon bucket and lean the bottom section so that the end with the tapped holes is toward the ground. Insert the splice piece into the bottom end piece that has NO tapped holes. The splice will remain in place



Step 9

due to friction. **Tip!** Spray the splice with WD 40, it will aid in insertion of splice

Step 10 Set your pole over the



Step 10

bucket so that you see 1 pre-drilled large hole in the upper right

and one same size hole, approximately 2" lower and to the left.

Step 11 Install the top perch rods. You will need your 2, 10 - 24 x 1/4" set screws (G) and your 2 top perch rods (D) and the allen wrench (G). Locate the small tapped hole. Using your allen wrench thread the set screw in to the hole only deep enough to hold the set screw into place. Measure your top perch rods and find the center and mark. This will be how far you will insert each rod. Insert one rod into the lower top perch hole first. Tighten the set screw and repeat for the upper top perch



Step 11

rod. **Tip!** When tightening your set screw use the shorter end of the allen wrench, it will give you more torque (tightening power).

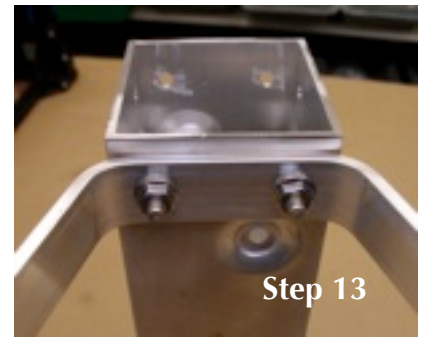
Step 12 Insert the top cap. Insert the black top cap, by gently tapping it into the top of your pole.

Tip! Some landlords like to place a dab of caulk on the edges of the cap. This helps to keep the cap in place as it expands and contracts due to weather conditions.

Step 13 Assemble the hub unit. You will need you angle arms (I) the 1/4-20/x 3/4 stainless bolts and whiz nuts, and the small angle



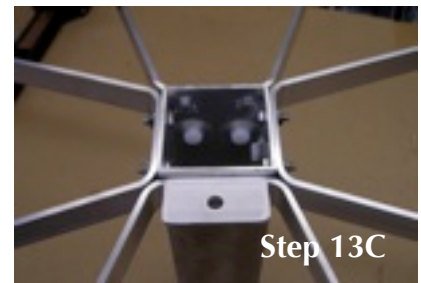
Step 13A



Step 13



Step 13B



Step 13C

piece (J) that has a hole in the center. Insert 2 of the bolts into the side of the hub which has ONE glide button (see photo 13A), align the arm so that the holes in the arms slip over the bolts. Screw the nuts on.

Repeat on the opposite side of the hub. You are now going to place the arm pieces on the side of hubs where you see TWO glide buttons. One of these sides you will be attaching the small angle piece (J).



Step 14

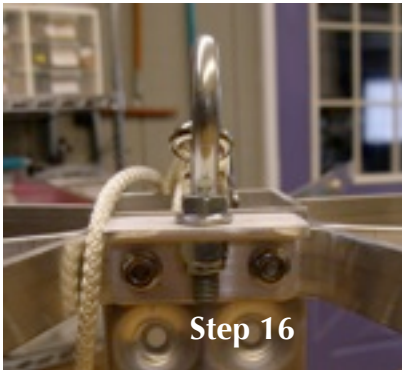
STAR-ter 8 unit Gourd Rack

Place the piece as seen in the photos 13B and 13C.

Step 14 Tighten all the nuts and make sure your arms are level by placing a speed square to the bottom.

Step 15 Its time to place the hub onto the pole. Slide the hub onto the pole from the BOTTOM of the pole, upward. (The arms attached to the hub is the top of the hub). Align the hub so that the small angle piece is on the same side as the lower lower hole as seen in step 10 photo. Place your pole back over your bucket. Its time to place the rope onto the hub and the pole.

Step 16 Begin by removing the lock nut from the bottom of the single pulley attached to the short eyebolt). Place the eyebolt into



the hole on the small angle piece that is attached to the hub. Tighten the lock nut till the eyebolt does not move and that the eyebolt is vertically aligned to the hub.

Now we need to place the longer eyebolt into the hole in the pole, You need to make sure your rope is not twisted. Look at photo 16B to make sure your rope is correct. Thread the lock nut back on and tighten the nut all the way to the pole. Make sure that you orient the eyebolt so that open end is facing up, and that the eyebolt is parallel to the pole.



Step 17 Oil the pulleys with any quality oil such as 3 in 1 house-



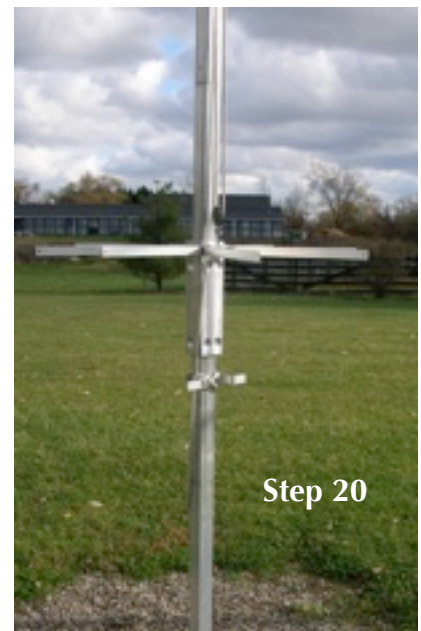
hold oil. Oil the pulley shaft, inside and outside being sure to catch all 4 pulleys. Oiling should be done every year.

Step 18 Install the rope winder (F). Measure from the bottom of the pole up, and mark the pole at 48" The rope winder came pre assembled. Undo 1 of the bolts by backing off the whiz nut, and remove the bolt. Slide the open sec-



tion around your pole at your mark, reinsert the bolt and thread the whiz nut back on and tighten. Make sure your rope winder is square to the pole

Step 19 Unfurl your rope and walk it out the full distance. Once rope is unfurled, run your hub down to the rope winder. Notice how the rope you unfurled is becoming shorter as the hub approaches the rope winder. Wrap



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the remainder of the rope loosely around the rope winder.

Step 20 Stand your pole up and slide the pole over your ground stake. The pole can be installed by a single person, but please always have an extra pair of helping hands.

Step 21 It's time to install your gourd hanging brackets. If you choose the Vertical option get your 16 brackets, and 8 sets of nuts and bolts. Each arm will hold a set of brackets.



Place the brackets on the arm so that the notched corner sides of brackets face away from each

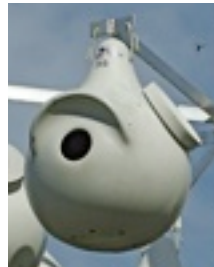


other. Insert the bolt thread on the nut and tighten. You want your brackets to be level. See photos.

For the HORIZONTAL rack you will need you 8 mounting arms, 8 bolts and nuts and hitch pins.

You want to position the mounting arm so that the pin faces the hub. See photo.

Step 22 In order to keep your rack from going in circles you need to install the 4 1/4 x 20 x 1/4" stainless set screws (R) into the tapped holes at the bottom of the pole. Position yourself so that you are in front of one set of the tapped holes and the other set is positioned on your left (to the pole).



Insert the set screws into both tapped holes in front of you. Tighten till you "feel" the set screws hit the ground stake. Repeat for the left side of pole. Now using the short end of the allen wrench tighten all of the 4 set screws doing one complete side of the pole then the other. Your pole should not rotate once this is done.

Next place all your gourds on your system. For Vertical hung gourds such as the SuperGourd you will want to wire them on using #10 solid copper wire (or like). If using Troyer Horizontal Gourds slide your Troyer Horizontal gourd onto the mounting arm and insert the hitch pin into the pre-drilled hole.

It's time to raise the gourds up. Wearing a pair of non slip gloves, unwrap your rope from around the winder. Stand about 3 feet from the pole and pull on your rope. Never stand directly under gourd rack while raising or lowering. The hub should raise with very little effort. When the hub reaches the top you will feel a stopping sensation as the pulleys meet. Holding tightly to your rope you will walk to your rope winder and wrap the excess rope around your winder. Be sure no rope is falling on the



ground or that it is laying over a predator guard. A climbing predator could use this rope to climb your pole and raid the nest.

That's it, you did a great job! We hope you will enjoy your new rack and that it is the beginning of a great new hobby for you and your family!

Maintenance:

Remove gourds at end of season and clean out. If possible, remove and store your rack inside during the off season. This will help to extend the life of your rope. Speaking of rope check for fraying. If your rope looks worn err on the side of caution and call us for a low cost replacement. You can wax your pole with any quality car wax. Oil your pulleys every year.

Due to ground stake limitations this gourd rack in not expandable.

This product designed and developed by
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