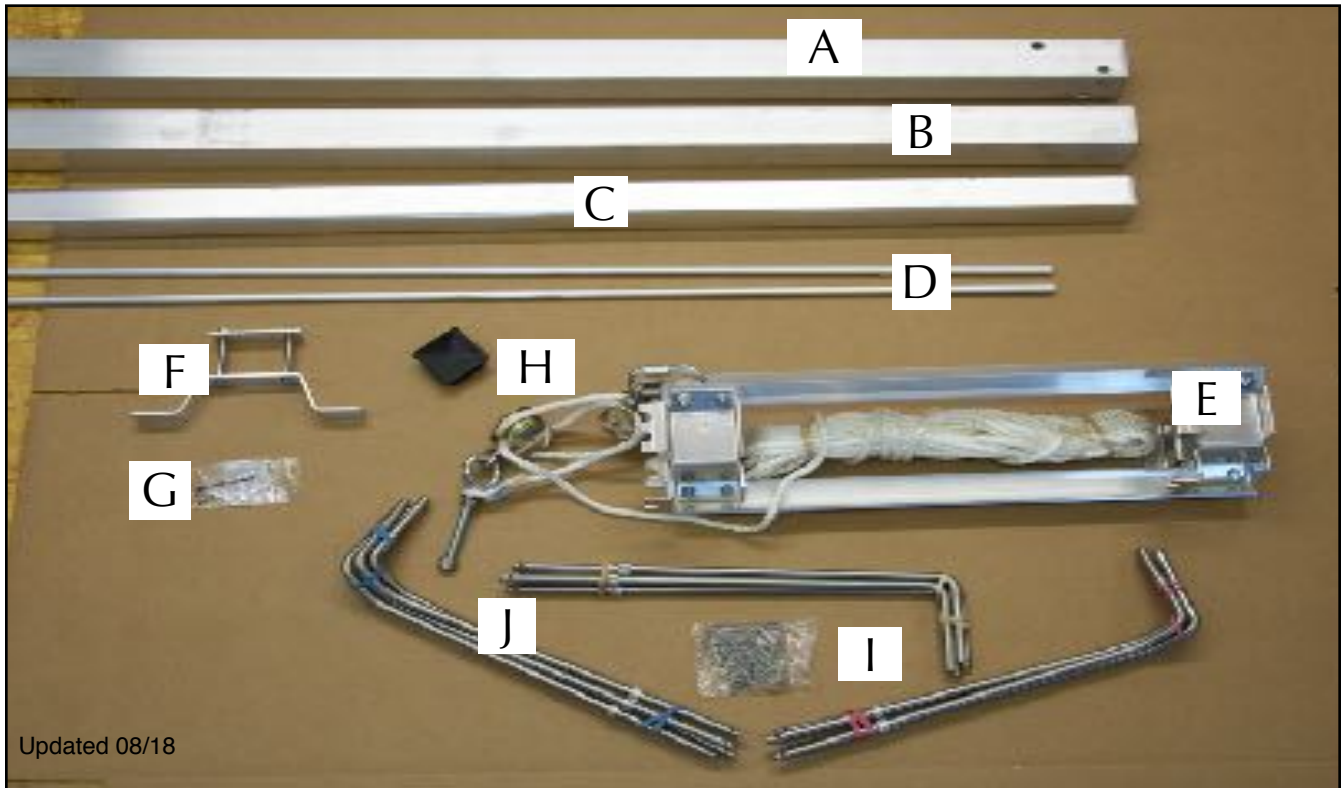


Troyer's (DGR) Deluxe Gourd Rack: 12 or 18 OR (SDGR) Super-Deluxe Gourd Rack:12 or 18



Parts List

POLE BOX

- A: Top of Pole (Top of pole has pre-drilled holes, opposite end has splice installed)
- B: Bottom of Pole (2 square cut ends).
- C: 48" Heavy-duty Aluminum Ground Stake
- D: Top Perch rods 48" long

HUB BOX

- E: Hub with attached rope, pulleys and eyebolt (12 unit hub shown)
- J: 12 or 18 Gourd Arms (horizontal shown) (**See Note Below.**)
- 12 Units= 4 each of; left, right, straight. 18 Unit 6 of each, left right, straight

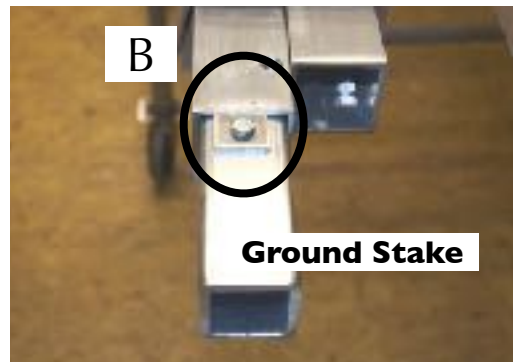
HARDWARE BAG

- F: Rope Winder w/ attached stainless steel hardware
- G: (2) 10 - 24 x 1/4" set screws with 3/32" allen wrench
- H: Top Cap for pole
- I: 12 or 18 Stainless Hitch Pins

IMPORTANT

The ground stake part C can be found inserted into the lower pole section (B). There is a stop plate (see circle) that keeps the ground stake from moving during shipping. This end of the ground stake should be placed into the ground. If you should accidentally install the ground stake upside down, the stop plate is removable. Simply unscrew the bolt and the plate will come off.

NOTE!
DGR: Gourd arms made from Aluminum
SDGR: Gourd Arms made from Stainless Steel



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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 racks resistance to winds will only be as good as its foundation.

STOP

**Purchased a Ground Sleeve?
Follow sleeve installation instructions
and skip steps 1-7.**

Step 1 Installing the aluminum ground stake. Using a post hole digger, dig a hole with a minimum depth 32-36" deep by 9" in diameter. *Poor ground conditions may warrant a larger hole and more concrete.*



Step 2 After your hole is dug place about 4" of gravel into the hole.



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

Step 4 Empty contents of the ready mix concrete into an old wheelbarrow. *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 Mark your ground stake using a bold marker 24" from one end. Insert your ground stake into the cement. Holding the ground stake vertically, you firmly push down several inches then pull up a fraction, then push downward, slowly sinking the aluminum stake into the cement. **Stop when the cement meets**



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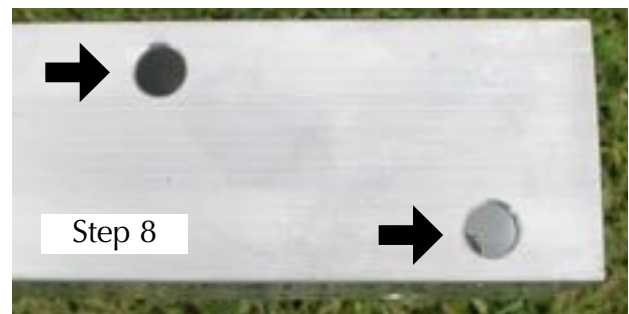
the line drawn on your stake. Next fill the hollow tube of the stake with cement. To settle the cement in the tube gently tap the sides of the stake. Finish by sloping the concrete at the base of the stake away from the ground stake so water will not puddle against it.



Periodically check your ground stake for plumb. For best results wait at least 2 days for your concrete to cure.

Step 7 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 2 square cut ends. Upturn a 5 gallon bucket and lean either end of the bottom section over the bucket. (TIP! Spray the splice with WD40, it will aid in inserting the splice). Insert the splice piece into the bottom section. The splice should slide in with little force. The splice will remain in place due to gravity.

Step 8 Set your pole over the 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.



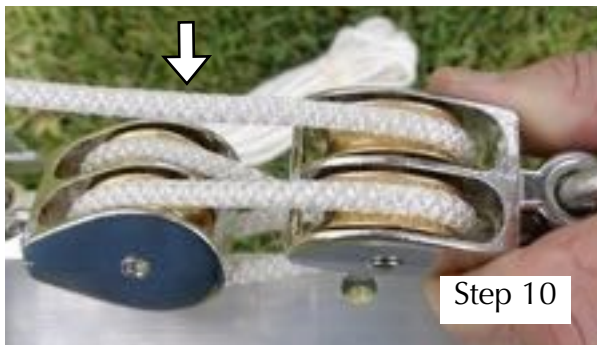
Step 9 Install your hub unit. Your hub unit (E) came with its rope attached to a quick link (see circle). Slide your hub with the quick link at the upper left. Slide the hub on the pole so that your quick link is several inches below the lower hole on the left.



Step 10 Your rope has been pre assembled onto the hub. One end of the pulley is attached to the quick link, the other end is attached to the eyebolt. Leave any rubber bands around your rope. Grasp the upper pulley that has the eyebolt attached with one hand and with the other hand grasp the rope near the quick link. Your rope should be hanging to the front of the upper

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double pulley, left side. (See photo 10). If your rope does not look like the photo, it is simply twisted and turn it clockwise, or counter clock wise till it appears exactly like the photo.



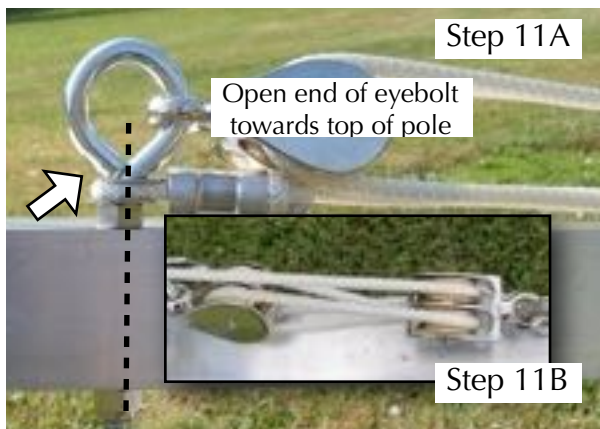
Step 10

Step 11 Remove the lock nut from the end of the eyebolt. Insert the eyebolt into the lower hole (located on the lower left side).



Step 11

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. (See photo 11A.) Push your hub



Step 11A

Open end of eyebolt towards top of pole

Step 11B

further down the pole approximately 6" and check your rope. It should look like photo 11B.

Step 12 MUST DO!

Oil the pulleys with any quality oil such as 3 in 1 household oil. Oil the pulley shaft, inside and outside being sure to catch all 4 pulleys. Oiling should be done every year.



Step 12

Step 13 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. Slide the top perch through the hole and find the center at around 24".



Step 13

Tighten the set screw and repeat for the other top perch rod.

Step 14 Insert the top cap. Insert the black top cap, by gently tapping it into the top of your pole.



Step 14

Step 15 Install the rope winder (F).

Measure from the bottom of the pole up, and mark the pole at 54". The rope winder came pre assembled. Undo 1 of the bolts by backing off the whiz nut, and remove the bolt. Slide the open section 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, by using a speed square.

Step 16 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

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winder. Wrap the remainder of the rope loosely around the rope winder.

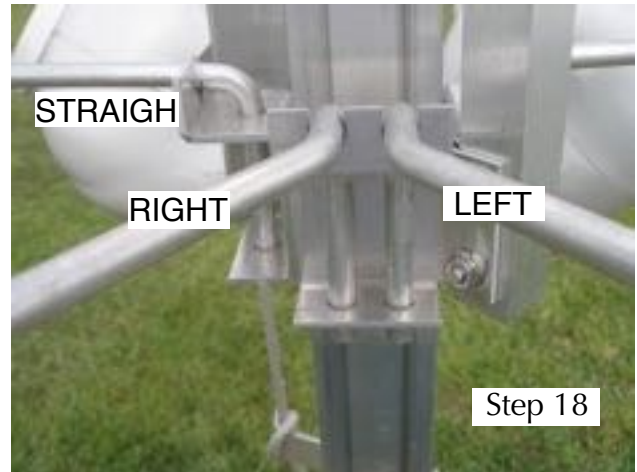


Step 17 Stand your pole up and slide the pole over your ground stake. The pole can be installed by a single person, but please always have an extra pair of helping hands.



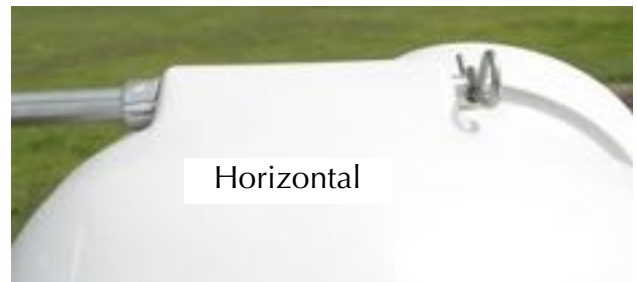
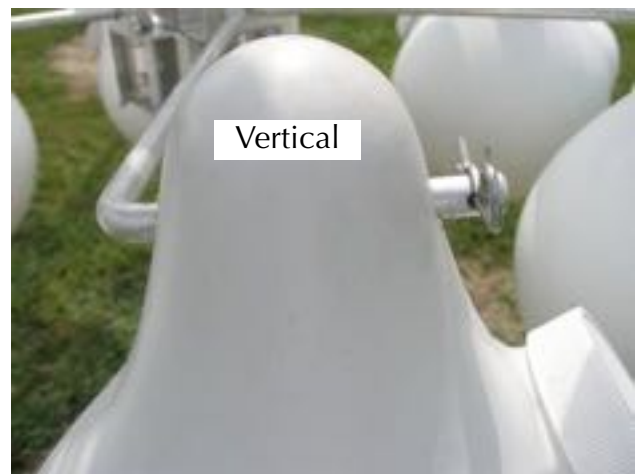
Step 18 Install the gourd arms (J). Your gourd rack comes with 3 different styles of arms. There are arms that are straight (wrapped in white rubber bands), there are arms that are bent to the right (wrapped in red rubber bands), and arms that are bent to the left (wrapped in blue rubber bands). Straight arms are always inserted into the single bracket holes. The paired hub bracket holes use your left and right arms. Notice in photo 18 how the left and right arms turn out from the hub. Make sure your arm is fully seated into the u shaped slot.

Vertical gourd arms ends are bent at 90 degree angle. You may need to enlarge your gourd hanging hole to 3/8" to accommodate arms. Insert the hitch pin (I) into the pre drilled hole. Hitch pin will keep your gourd



from falling off. **Vertical gourd arm option is available only with the aluminum arm (DGR) gourd rack.**

Horizontal Gourd arms are straight with a stop nut fixed on.



Once all your gourds are on your system its 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

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

That's it! Wasn't too bad, was it? We wish you many successful years as a martin landlord. Should you have questions about this product please feel free to call us. We are always happy to help.



Rope wrapped onto the rope winder

Maintenance of Gourd Rack

Pole: Use any good quality car paste wax and wax your pole. Waxing can aid in the slipperiness, as well as protecting the aluminum pole from the weather elements.

Hub: Remove the arms and gourds from your rack and store inside. Place your hitch pins in the arm holes to keep from losing them.

Rope: Check for fraying, splitting or any cut marks on your rope. Note: minor fraying looks like little tufts of hair and is normal. If you are unsure of your rope, replace it. Simply get in touch with us, we can supply you with a replacement rope at a reasonable cost.

Pulleys: Oil pulleys every year, it keeps the pulleys from squealing and makes raising and lowering very easy.

Hardware: Please check all your bolt and nuts at the start of each season and don't forget to check the quick link (that is the link between the hub and the ropes pulley)

Please consider adding a predator guard. We offer several styles that are sure to meet your needs.

Questions or comments please contact:

**Troyer's Birds' Paradise
20785 Morris Rd
Conneautville, PA 16406
814-587-2756**