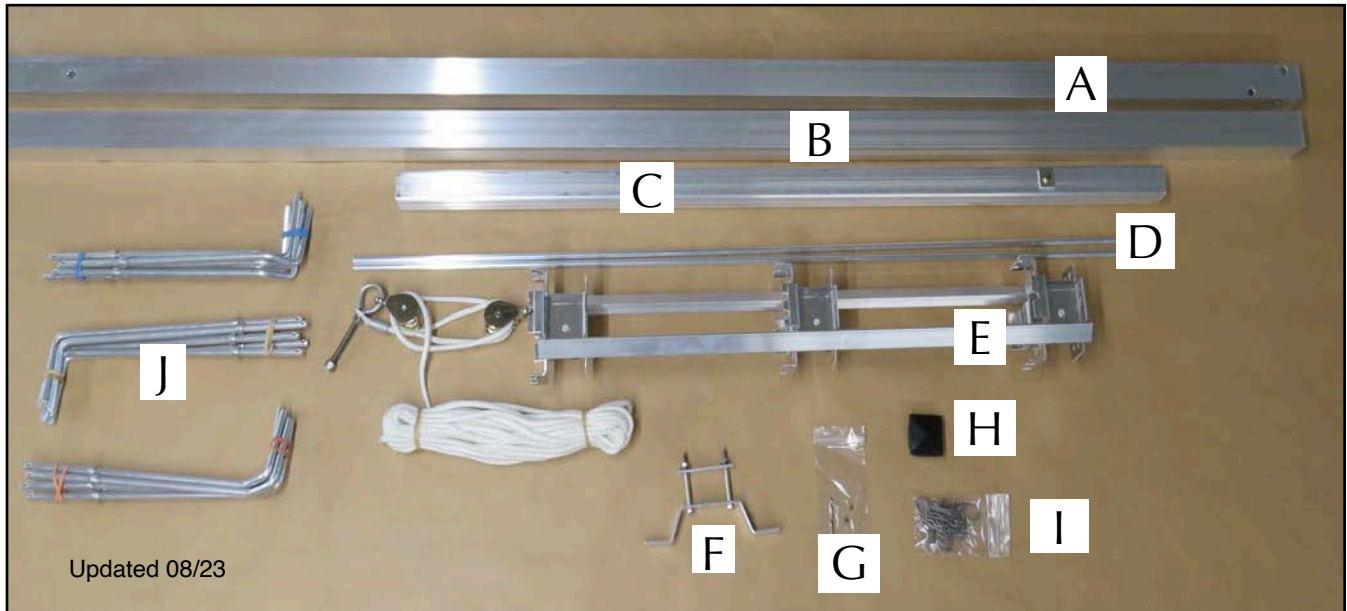


Troyer's Deluxe/Super-Deluxe Gourd Rack 18 Unit (#DGR18H/#SDGR18H)



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

J: 18 aluminum gourd arms (horizontal shown)

6 each: left, right, straight (see pg 5).

HARDWARE BAG (in hub box)

F: Rope Winder w/ attached stainless steel hardware

G: (2) 10 - 24 x 1/4" set screws with 3/32" Allen wrench

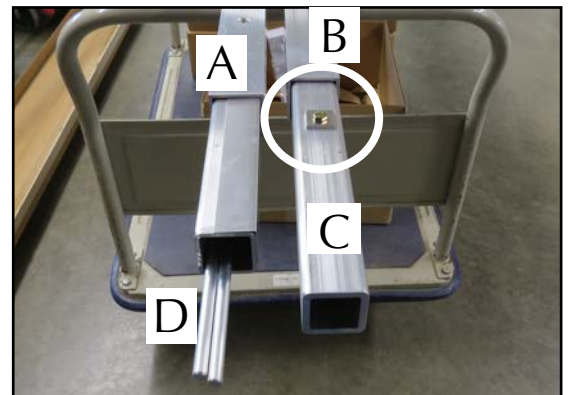
H: Top Cap for pole

I: 18 Stainless Hitch Pins

***POLE BOX:** The ground stake part C can be found inserted into pole section (B). There is a stop plate (see circle) that keeps the ground stake from moving during shipping. This end 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.

Difference Between Deluxe vs Super-Deluxe

- The Deluxe 18 uses Aluminum Gourd Arms
- The Super-Deluxe 18 uses Stainless Steel Gourd Arms



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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.

Step 1 Installing the aluminum ground stake. Using a post hole digger, dig a hole 28" deep by 9" in diameter. Poor ground conditions may warrant a larger hole and more concrete.



Step 1

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



Step 2

Use Concrete Mix (Quikrete), 80 pounds each.



Step 3

Step 4 Empty contents of the ready mix concrete into a wheelbarrow. Mix and handle the concrete according to the directions on the bag.

Step 5 Measure and mark your ground stake at 24". Also draw an arrow facing towards the stop plate as seen in the photo step 5.



Step 5

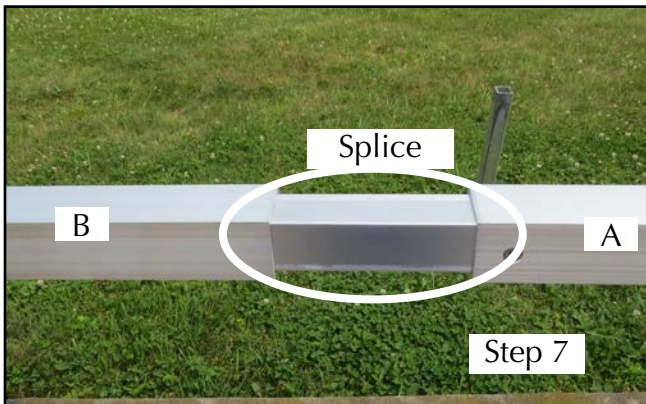
Step 6 Place your ground stake into the center of your hole, arrow facing towards the ground, sitting on your gravel. **Your 24" mark should be level with the top of your hole.** Fill your hole full of cement stopping when the cement meets the mark on your ground stake. Check for plumb on at least 2 sides of the ground stake. Wipe your ground stake clean from any cement dribbles. Smooth the cement pad at the base of the stake so that the cement slopes away from the ground stake. Wait at least 2 days for your cement to cure. **Tip! The ground stake should be a FULL 24" above ground.**

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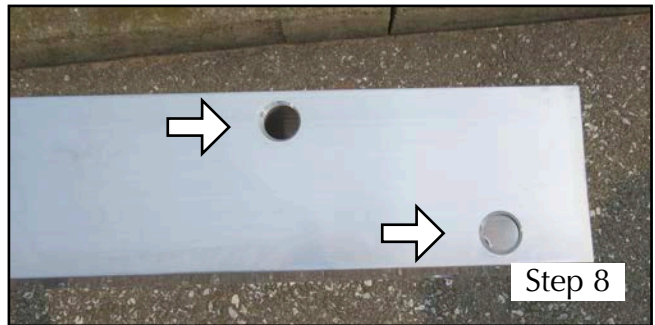
Tip! Never remove the bolts holding the splice in place. (They are installed and tightened at the manufacturing plant and removal of bolts will not separate your pole. If you need to separate the pole halves remove from the pole from the ground stake).



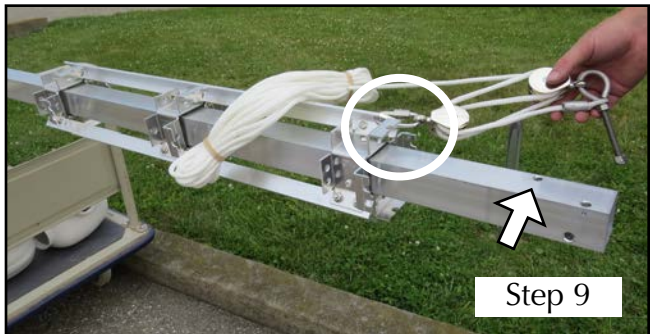
Step 7 Assemble of the pole. Notice that your pole consists of a top piece, (A) which has a splice piece installed at one end of the pole and holes on the opposite side, and a bottom piece (B) which has 2 square cut ends. Upturn a 5 gallon bucket and lean either end of the bottom section over the bucket (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 thru the pole so that your quick link is several inches below the lower hole on the left.



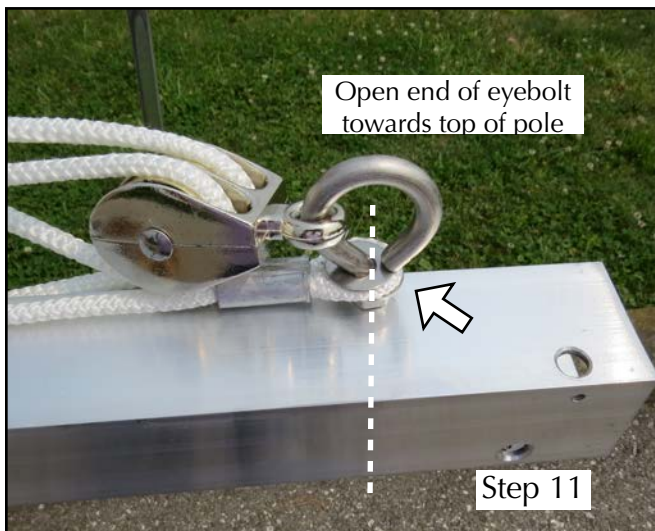
Step 10 Your rope has been pre assembled onto the hub. One end of the pulley is attached to the quick link, the other end is attached to the eye-bolt. Leave any rubber bands around your rope.



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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 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 clockwise till it appears exactly like the photo 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). 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 (arrow), and that the eyebolt is parallel to the pole (dotted line). See photo 11. Push your hub further down the pole approximately 6" and check your rope. It should look like photo 11A.



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 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 into the hole only deep enough to hold the set screw in place.



Slide the top perch through the hole and find the center at around 24". Tighten the set screw and repeat with the other top perch rod.

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



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, replace the bolt and thread the whiz nut back on and

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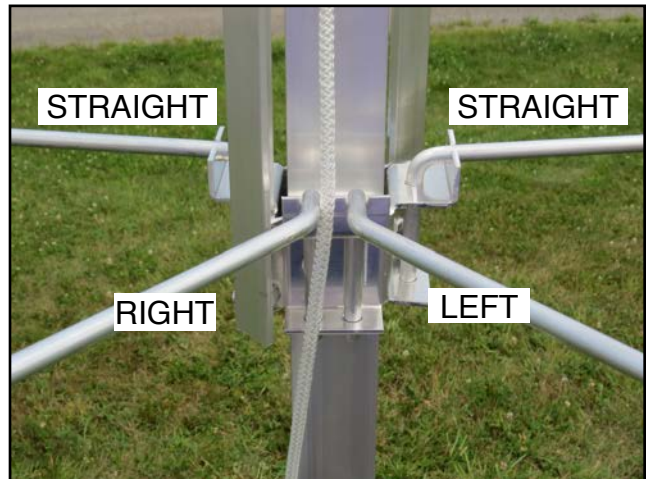
tighten. Make sure your rope winder is square to the pole, by using speed square.

Step 16 Unfurl your rope and walk it out the full distance. Once rope is unfurled, run your hub towards the rope winder. Notice how the rope you unfurled is becoming shorter as the hub approaches the rope winder. Wrap the remainder of the rope loosely around the rope winder see circle step 17.

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.



blue rubber bands). Straight arms always are 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.



Insert the hitch pin (I) into the pre drilled hole. Hitch pin will keep your gourd from falling off.



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

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

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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 loose rope to climb your pole and raid the nest.



Rope wrapped onto the rope winder

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

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

For more information on these and all our products please call to request your Troyer's Birds' Paradise Catalog.

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.

Winter Storage: Remove the arms and gourds from your rack and store inside. Place your hitch pins in the arm holes to keep from losing them. Keep hub in the lower position and tie off rope to the rope winder.

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.

Winch Conversion: We have a kit to convert the rope and pulley system to a winch with cable. Please contact us for more information.

The DGR18/SDGR18 is Compatible With:

- Troyer Vertical & Horizontal Gourd
- SuperGourds & other natural & manufactured Gourds, drilled front to back
- Pole Guard Square (not compatible with winch conversion kit)
- EZ2 Predator Guard
- Optional Ground Sleeve for 2" square poles
- Deluxe Winch Conversion Kit
- Two-foot Extension Piece
- Gourd arm end caps