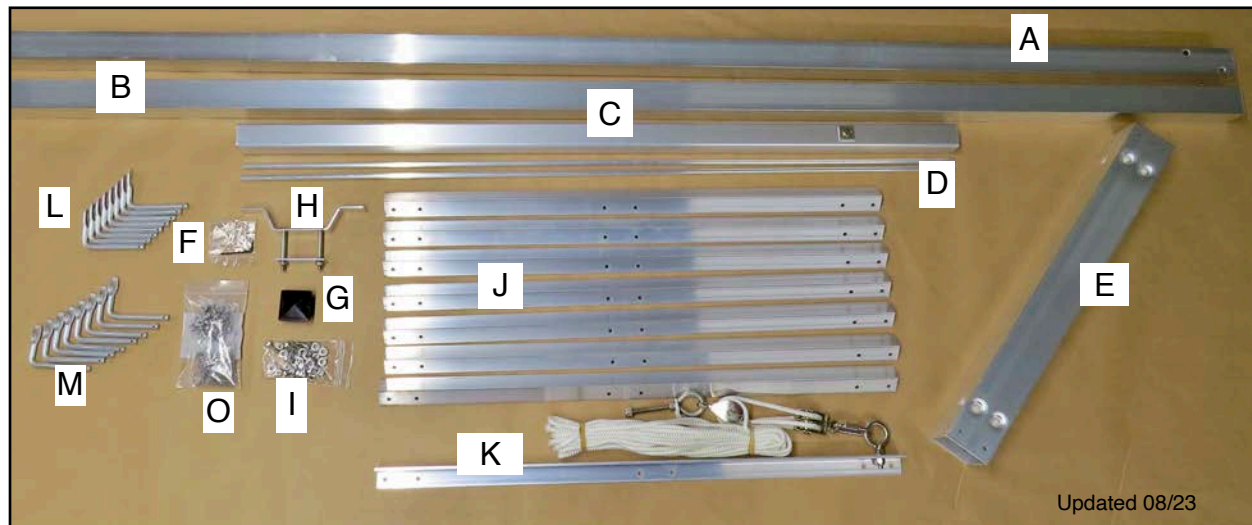


Troyer's AAA Gourd Rack (#AAA16H)



Pole Box Parts*

- A) Upper Pole Section (has holes on one end)
- B) Lower Pole Section
- C) 48" heavy-duty Ground Stake
- D) 48" Top Perch Rod

Hub Box Parts

- E) Hub with installed glide buttons
- J) 7 Aluminum Angle Arms
- K) Aluminum angle arm with attached rope, pulley and quick link

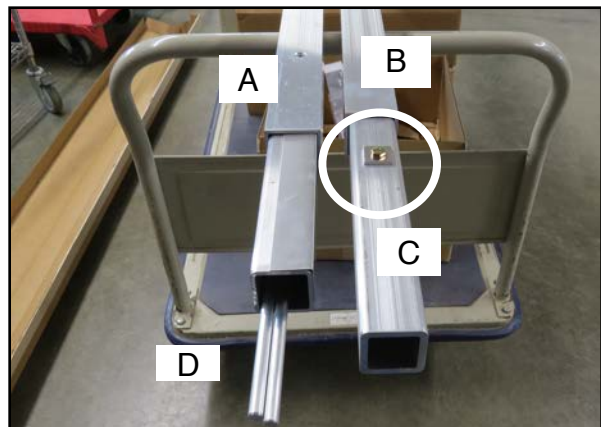
Hardware Bag (in hub box)

- F) Two 10-24 x 1/4" stainless set screws with Allen wrench
- G) Top Cap for pole
- H) Aluminum rope winder with bolts & nuts
- I) 16 stainless 1/4-20 x 3/4" bolts and 16 stainless whiz nuts

Gourd Mounting Arms

- L) 8 Horizontal 90 Gourd Mounting Arms
- M) 8 Horizontal Straight Gourd Mounting Arms
- O) 16 1/4-20 x 3/4 bolt & whiz nuts, stainless

***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.



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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.

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 2 After your hole is dug, pour in about 4" of pea gravel into the hole.

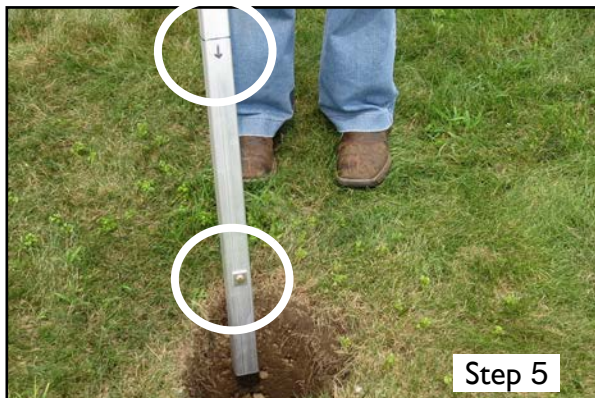


Step 3 You will need at least 3 bags of Ready to Use Concrete Mix (Quickrete), 80 pounds each.

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 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

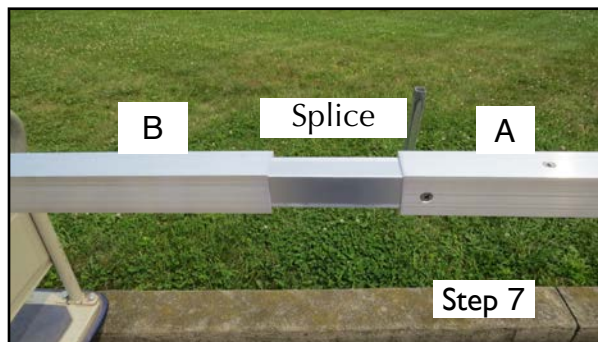


cement meets the mark on your ground stake. Check for plumb on at least 2 sides of the ground stake. Wipe your ground stake clean from any cement dribbles. Smooth the cement pad at the base of the stake so that the cement slopes away from the ground stake. Wait at least 2 days for your cement to cure. **Tip! The ground stake should be a FULL 24" above ground.**



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 ends. Upturn a 5 gallon bucket and lean the bottom section on to the bucket, either end up. Insert the splice piece into the bottom. The splice should slide in with little force. (TIP! Spray the splice with WD40,

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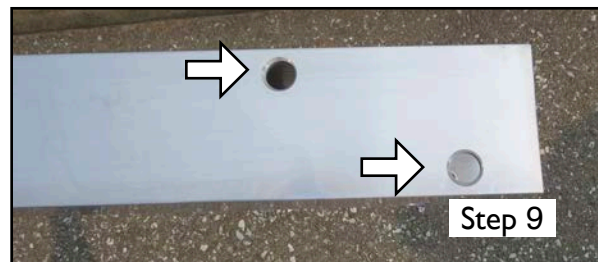


it will aid in inserting the splice) The splice will remain in place due to gravity.

Step 8 The Hub. Get your hub (E) and your 16 bolts and nuts (I). You want to insert the bolts into the hub before it is mounted over the pole. At the top and bottom of the hub you will see 4 pre-drilled holes per side of the hub, 2 at the top and 2 at the bottom. (Note, it does not matter which end you make the top). Insert a bolt from the inside of the hub and screw a whiz nut on the bolt. Do not tighten. Do this with all 16 of your bolts and nuts. Set aside.



Step 9 Orient your pole over an upturned 5 gallon bucket being sure that the top of pole facing upwards has 2 pre-



drilled holes, the higher hole on the upper right.

Step 10 Install the rope winder (H). Measure from the bottom of the pole up, and mark the pole around 54". The rope winder came pre-assembled. Remove one of the whiz nuts, and the bolt. Slide the open section around your pole at your mark, insert the bolt and thread the whiz nut back

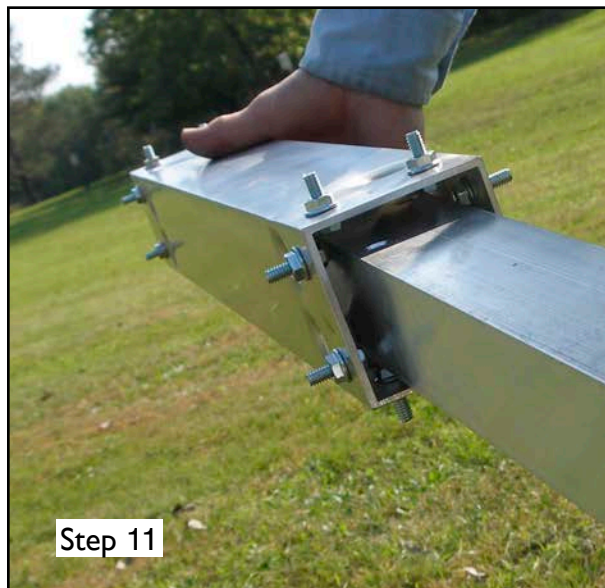


on and tighten. Make sure your rope winder is square to the pole.

Step 11 Slide the hub (with the pre inserted bolts) over the pole and stop when the hub clears the 2 sets of pre drilled holes in the pole photo step 9. Set the pole back over the upturned 5 gallon bucket.

Step 12 Attaching the angle arm that has the pre assembled eyebolt, rope and pulleys (K). First you need to be sure that the correct side of the pole is facing up. The top of pole facing upwards has 2 pre-drilled holes, the higher hole should be on the upper right. Look down your pole and your rope winder should be facing upward. (See photo Step 9, 10 and 11). Once you have determined your pole with hub are oriented correctly you need to attach the arm that has the rope and pulley (K). Remove the 2 upper whiz nuts from the hub and place the angle arm over the bolts,

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Step 11



Step 12



Step 12

and replace the whiz nuts. Using a speed square you need to be sure the arm is horizontal to the hub. Place the speed square against the hub and under the angle arm. When square, tighten the bolt using a 7/16" socket wrench to tighten the nuts. It also helps to use a 7/16" open end box wrench on the back side to hold the bolt in place while you tighten the nut.

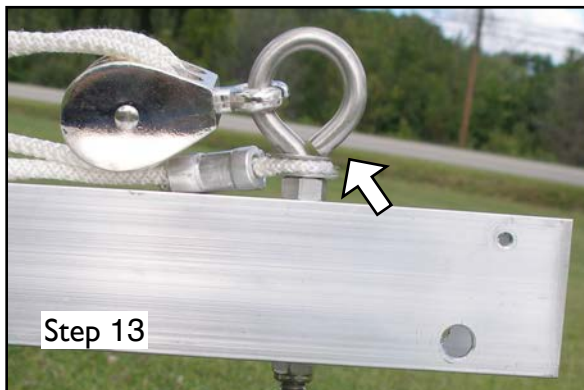
Step 13 Placing the eyebolt into the pole. Remove the rubber band that is holding the pulleys to the rope. Grasp the upper pulley that has the eyebolt attached with one hand and with the other hand grasp near the lower pulley and pull apart about 2". Your rope should be hanging to the front of the upper double pulley, left side. (See photo Step 14). If your rope does not look like the picture it is simply twisted. Rotate the entire upper pulley clockwise or counterclockwise until it looks exactly like the photo. The eyebolt needs to be inserted into the lower left hole in the pole. Remove the lock nut from the eyebolt and place the eyebolt into the hole. Make sure you orient the eyebolt so that the open end is facing up and the eyebolt is parallel to the pole. Thread lock nut and tighten the nut up to the pole.



Step 13



Step 13

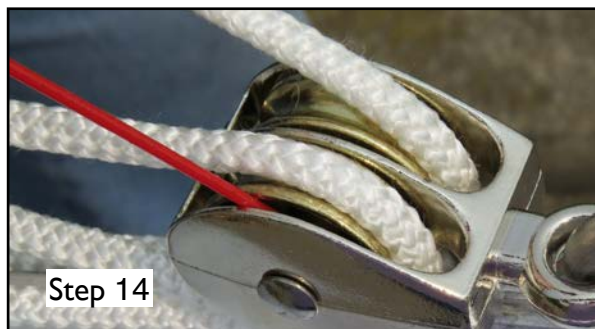


Step 13

Step 14 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 pulley shafts. Oiling should be done every year.

Step 15 Remove the rubber bands from the rope and unfurl it out the full distance. Walk your hub (with only the one arm on it) down the pole till you are stopped by the rope winder. Notice how the unfurled rope became shorter as you approached the rope winder. Wrap the remainder of

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the rope loosely around the rope winder. Lay pole back over the upturned 5 gallon bucket.



Step 16 Install the top perches and top cap. You will need your 2, 10-24 x 1/4" set screws and Allen wrench (F) and your 2 top perch rods (E). Locate the small tapped hole near the top of the pole. Using your Allen wrench thread one of the set screws into the hole only enough to hold the set screw into place. Repeat with the other set screw. Slide the top perch rod through the upper larger hole and find the center at around 24". Tighten the set screw and repeat for the other top perch. Next get your black plastic top cap (G) and insert the cap by gently tapping it into the top of your pole using a rubber mallet.



Step 17 Your pole should now have all the basics needed to place the pole over the ground stake. The pole can be



installed over the ground stake by a single person, but please always have an extra pair of helping hands.

Step 18 Installing the remaining 7 angle arms. Start working in a clockwise direction from the 1st angle arm on the upper tier of the hub. Remove the next pair of whiz nuts and place the angle arm with the pair of holes that are larger than the others, over the bolts. Thread whiz nuts back on. Use your speed square to check for square, tighten bolts and nuts by using the 7/16" open end box wrench to the inside of hub holding the bolt, and use your socket wrench to tighten the whiz nut. Very Important: You want to be sure that the bolts and nuts are nice and tight and that no movement of the angle arm can be felt. If you can not physically push the angle arm up you have tightened the bolts enough. You should also check your bolts periodically throughout the summer to make sure no bolt has loosened. When you have the 4 upper angle arms attached to the hub, raise your hub up to a comfortable working position.



Step 19 Repeat the lower level angle arm attachment in the same manner. The only difference is how to check for square. (See photo Step 20).

To raise the gourd rack wear a pair of non slip gloves. Stand about 3 feet from your pole and pull on the rope. The hub should raise with very little effort. When the hub reaches the top you will feel a stopping sensations as the pulleys meet. Holding tightly to your rope you will walk to your rope winder and wrap the excess rope around your winder. Never stand directly under the rack when raising or lowering it. Be sure no rope is falling on the ground or that

Troyer's AAA Gourd Rack (#AAA16H)



Step 19



Step 19

it is laying over a pole guard. A climbing predator could use this rope to raid the nest.

Congratulations! You did it. This system will hold natural, or manufactured gourds. There is a 16" spread between hanging holes, so that even the largest manufactured gourd can be hung. Hang your gourds using the provided Gourd Mounting Arms.

AAA 16H is Compatible With:

- Troyer Vertical & Horizontal Gourd
- SuperGourds & other natural & manufactured Gourds, drilled front to back
- Pole Guard Square
- EZ2 Predator Guard
- Optional Ground Sleeve
- Two-Foot Extension Piece
- Gourd Mounting Arms
- Convert-A-Rack

Please see your current Troyer's Birds' Paradise Catalog for more information.

Maintenance

Due to the sheer size of the hub we suggest you leave the pole with the hub and arms up year round. Remove gourds. If you choose to leave the system up we recommend that you wash the angle arms (after gourds are removed). Use your favorite car paste wax to wax pole and hub. **Oil the pulleys every season.** Check your rope for fraying or splitting or any cut marks. Note: minor fraying looks like little tufts of hair and is normal. If you are unsure of your rope its always better to err on the side of caution and replace the rope.

How to hang gourds from angle arms

Horizontal Gourd Mounting Arms are included with your purchase. Please refer to the included instruction on how to mount the Gourd Mounting Arms.



Thank You

Troyer's Birds' Paradise
20785 Morris Rd.
Conneautville, PA. 16406
Need help? Call:
814-587-2756