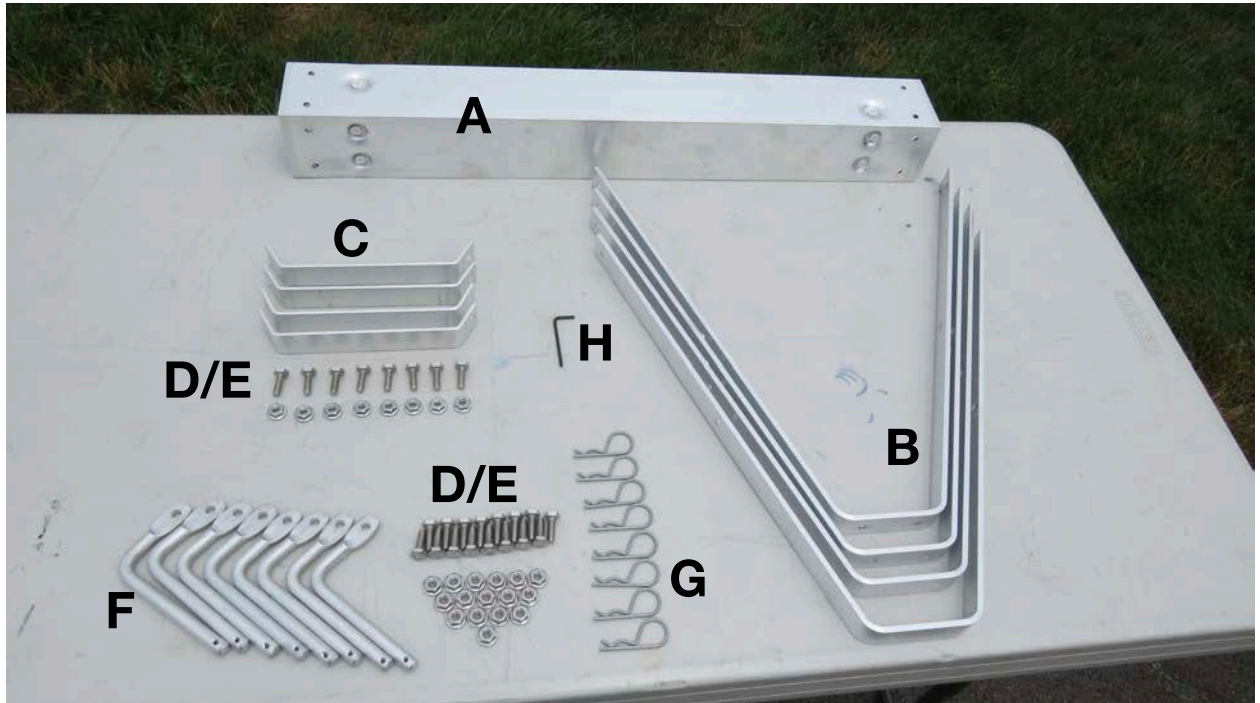


Upgrade SHD/GR8 to a 16 Unit



Parts:

A: Hub

B: 4 Gourd Hanging Brackets

C: 4 Aluminum Braces

D: 24 3/4" stainless bolts

E: 24 1/4-20 stainless whiz nuts

F: 8 Gourd Mounting Arms

G: 8 Stainless hitch pins

H: Allen wrench

In order to upgrade your original 8 unit gourd rack to a 16 unit, you will need to disassemble the original hub (keep all parts, except the hub) and remove the pole from the ground stake.

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Step 1). Begin by removing any gourds or pole guard that may be on your gourd rack. Remove the pole from the ground stake and set it up so that you can comfortably work on the hub. Using the Allen wrench (H) begin by removing set screws that are holding the top perch rods and remove them. Next the nut from the eyebolt and remove the bolt.



Step 2). Slide the hub up and off the pole and set the hub on a work station.



Step 3). Remove the braces (C) and the u-shaped gourd arm brackets (B) from the original hub. You will need two 7/16" wrenches one to hold the bolt head the other on the whiz nut and remove them.

Tip! Leave the quick link with rope attached to the small angle piece together. Simply remove the bolts/nuts that are holding it in place and set it

aside, as well as the gourd arm bracket. Keep all the gourd arm brackets, braces, plus the hardware. You can leave the gourd mounting arms on if you want.

Step 4). Begin by getting your new hub (A). It does not matter which end you decide to make the top. Simply set it on your work table and insert the bolts from inside the hub, and add the nuts. Do not tighten. You can reuse the original 8 bolts and nuts, plus 8 new (D/E).

Step 5). Adding the primary gourd hanging arm. This is any gourd hanging arm, then add the small angle piece with the attached quick link and rope for your original hub. Begin by removing any pair of whiz nuts. Place any u-shaped gourd arm bracket plus the angle piece with the attached rope and pulleys, then add the whiz nuts. Using a square under the bracket, level the arm and using the 7/16" wrench and tighten the nuts.



Step 6). Take the hub with the single attached arm with attached rope and eyebolt. Orient the pole so that you have a large hole in the upper right and a large hole in the lower left side of the pole.

NOTE! Your rope winder will be on this side of the pole. Slide your hub from

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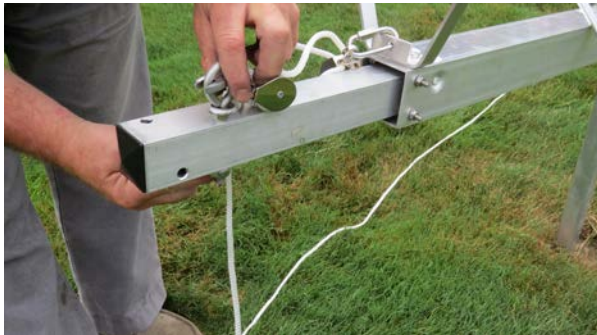
the top of the pole pushing the hub about 12 inches below the hole on the left side. This hole is the eyebolt hole.



Step 7). Orient your rope over the pulleys exactly as you see in the photo. Then



insert the end of the eyebolt thru the lower left hole and replace the original nut that you removed from the eyebolt in step 1 and tighten using a 1/2" wrench on the nut and you can put a wrench or like, thru the eyebolt to keep it from twisting



while tightening the nut. It's also a good time to use some 3 in 1 oil and oil your pulley sheaves.



Step 8). Replace the top perch rods by inserting the rod into the upper hole. Find the center, insert the original set screw into drilled and tapped hole and then fully tighten the set screw and repeat with the other top perch rod.



Step 9). Slide the hub down the pole about 18 inches then take the end of your rope and wrap it loosely around the rope winder which was never removed. However if your rope winder is on the opposite side simply loosen the



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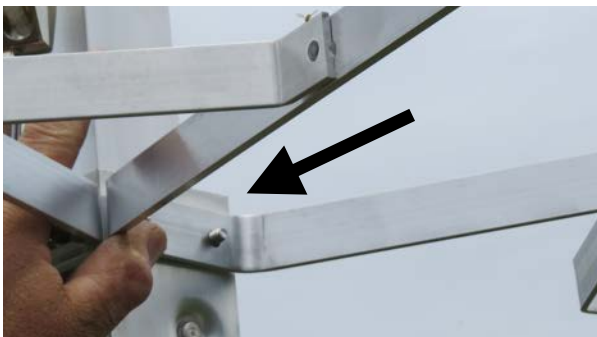
hardware from the winder and place the winder on the correct side.

Step 10). Tip! Spray WD-40 on your ground stake first, it will allow the pole to slip down easier. Place the pole with the hub and arm on to the pole. Using a helper to guide you, lift the pole and place it on to the ground stake letting it slide down the stake and sit on the concrete base.



Step 11). Using the rope lower the hub to a comfortable working height, then tie the rope on to your rope winder.

Step 12). Starting at the top of the hub you will be replacing the u-shaped brackets. Working clockwise remove a pair of nuts, slip the u-shaped bracket over the protruding bolts and thread the nuts back on. Go around the hub and complete the upper section, but do not tighten the nuts yet.



Step 13). Once you have the u-shaped brackets on the hub, place your square under the bracket and tighten the nuts using a 7/16" wrench. Do all 4 arm brackets.



Step 14). Insert the braces between the u-shaped arm brackets aligning the holes from the brace to the bracket. Using the hardware provided (or the original hardware, D/E) insert the bolts thread on the nut. Do all 4 braces, then tighten the nuts.



Step 15). You will repeat steps 12, 13 and 14 for the lower section.

Step 16). Install your Gourd Mounting Arms on the the end of bracket on . Simply align the hole on the Gourd Mounting Arm to the hole on the bracket, insert the provided hardware (or reuse

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the original GMA and hardware) and tighten the nut using a 7/16" wrench.



Step 17). Once all your Gourd Mounting Arms have been installed you can add your gourds. Slip a gourd on to the GMA and insert a hitch pin (G) into the hole found at the end of the Gourd Mounting Arm.

Step 18) Wearing a pair of gripping gloves grasp the rope and pull. The hub should raise with ease. Once you reach the tope take your rope and tie it in a figure 8 configuration around the rope winder. Do not let any rope hang on the ground as a snake could use it to climb your pole.

Compatible Products:

**Troyer Vertical Gourd
Troyer Horizontal Gourd
SuperGourds
*Two-foot Extension Piece
Pole Guard Square
EZ Off 2"**

*You need to remove the entire pole from the ground stake to add so either add prior to the expansion. Also note that your original 45' rope will be too short and you may wish to add a new 55' rope.

Need Help?

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

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