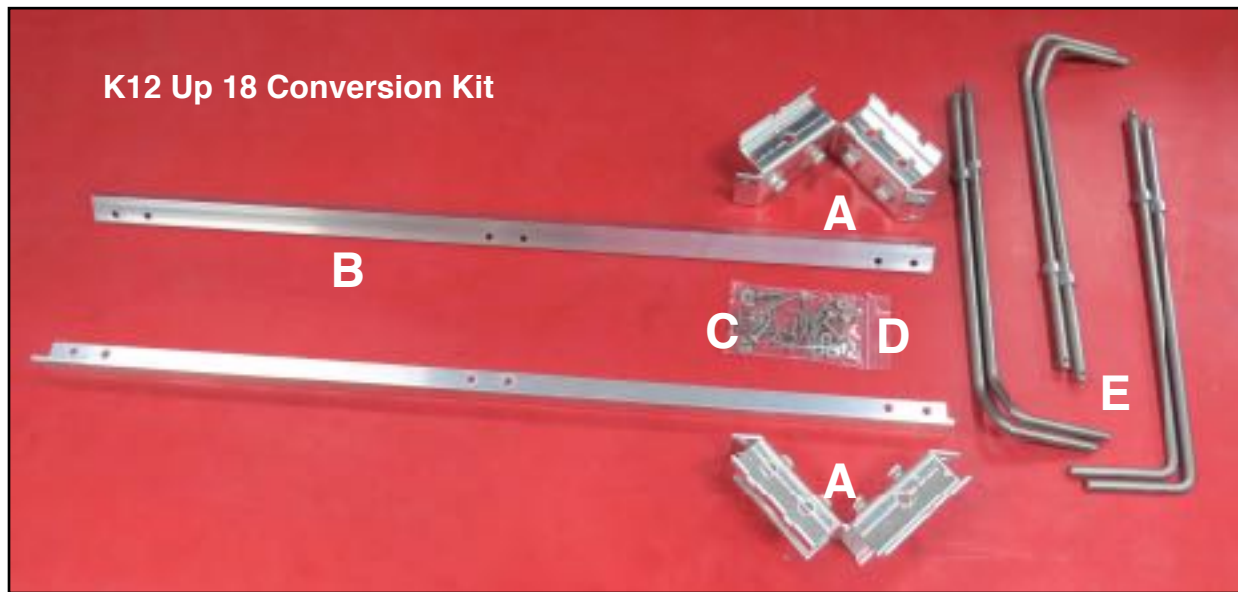
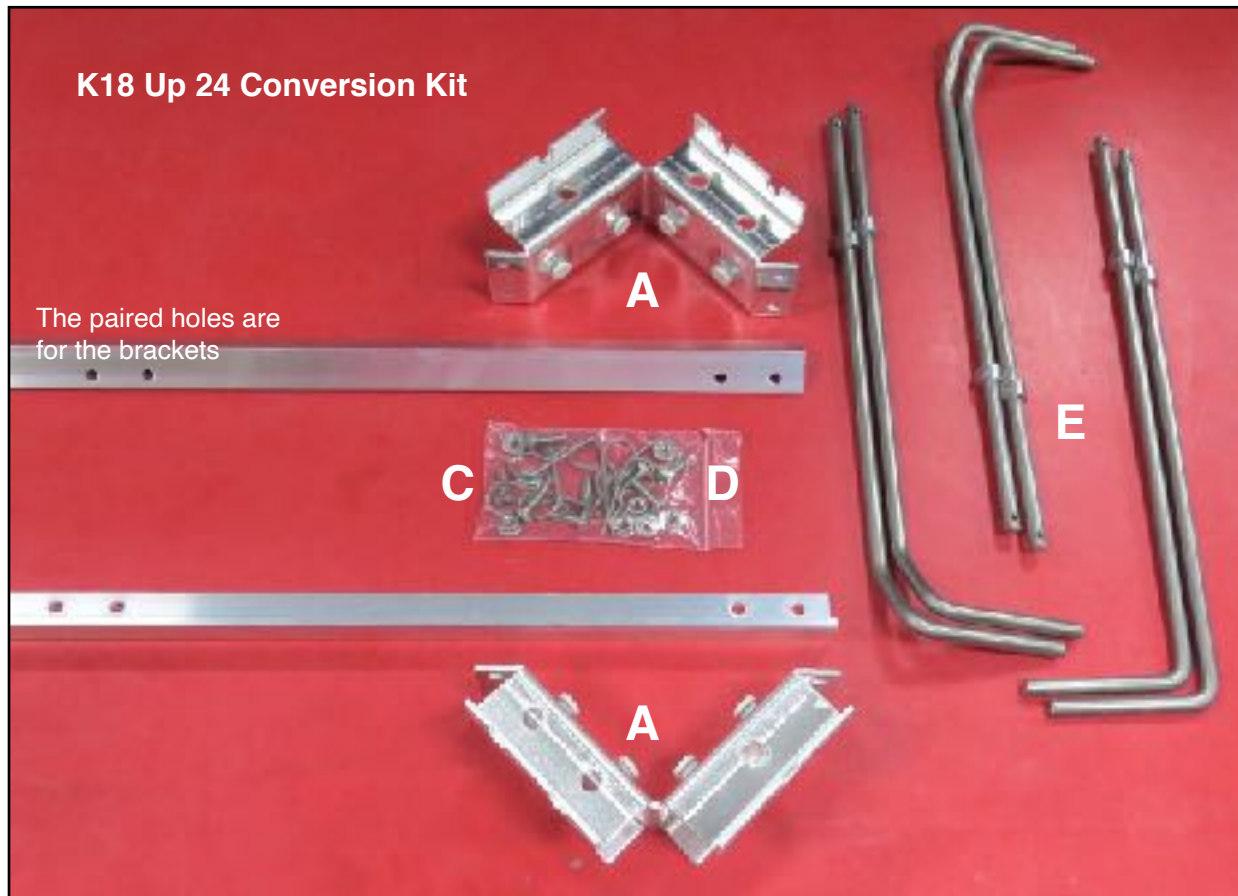


Troyer's K-Series: 12UP18, 12UP24, 18UP24



Part	Description	Qty 12Up18	Qty 12Up24
A	Hub bracket pair	1 Pair	2 Pair
B	Aluminum Angle Pieces	1 Pair	1 Pair
C	1/4 - 20 x 3/4" stainless bolts with nuts	4 each	8 each
D	Stainless Steel Hitch pins	6	12
E	Stainless Gourd Arms	6	12





Part	Description	Qty 18Up24
A	Hub bracket pair	1 Pair
B	Aluminum Angle Pieces	1 Pair
C	1/4 - 20 x 3/4" stainless bolts with nuts	4 each
D	Stainless Steel Hitch pins	6
E	Stainless Gourd Arms	6

Tools Needed:

1/2" and 7/16" Socket Wrench (2 will be best), old screw driver

Step 1) You will need to get your hub off the existing pole. Be sure to make note of how you took off the hub and in what order as you will re-assemble the entire unit. You can also contact the company you purchased this upgrade from, and they can get to you a K-Series instruction sheet.

Step 2) You will need to remove the eyebolt that connects to your hub and the cable. Using a 1/2" wrench loosen and remove the lock nut holding the eyebolt in the hub piece. It helps to insert a screw driver into the eye of the eyebolt to keep it from spinning around.

Step 3) Now that the eyebolt is removed, let's look at the hub. Take note that the bracket that was holding the eyebolt is the ONLY bracket with an extra center hole. This bracket and its mate MUST be placed on your new upgrade at the TOP, as you will need to re-attach the eyebolt/cable at the end of assembly.

Troyer's K-Series: I2UPI8, I2UP24, I8UP24

Step 4). Get your new angle pieces (B). While your original hub is still assembled, let's lay the new angle pieces next to our original hub. You will want the angle pieces to line up just like your originals. The only difference they will be longer.

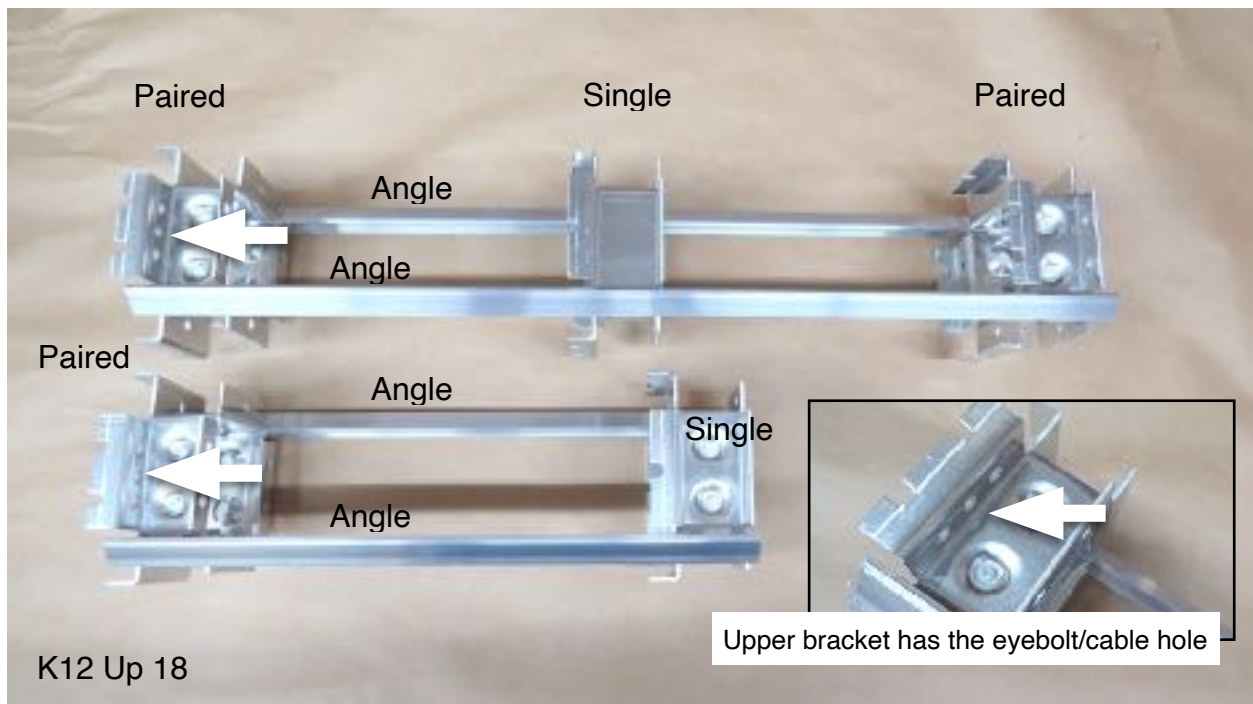
Step 5). It's time to remove the original brackets from your original hub. Let's begin by removing the uppermost hub pair. For this you will use the 7/16" socket wrench. Loosen from the BOLT side. There are 4 bolts and nuts per bracket. You will reuse these.

Step 6). Now we will assemble this bracket on to your new angle side pieces. You will place this bracket you removed at the TOP of the new angle pieces. Just like your original hub, this bracket pair needs to be at the top as it has that hole for the eyebolt/cable, and if not placed at the top you won't be able to lift your hub. Makes sense, right?

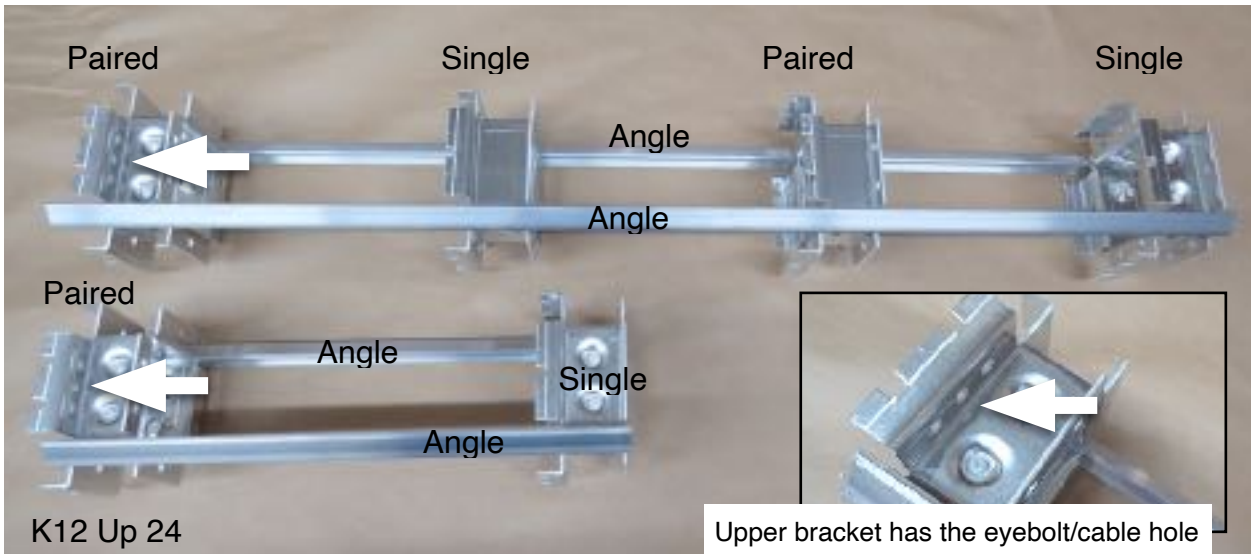
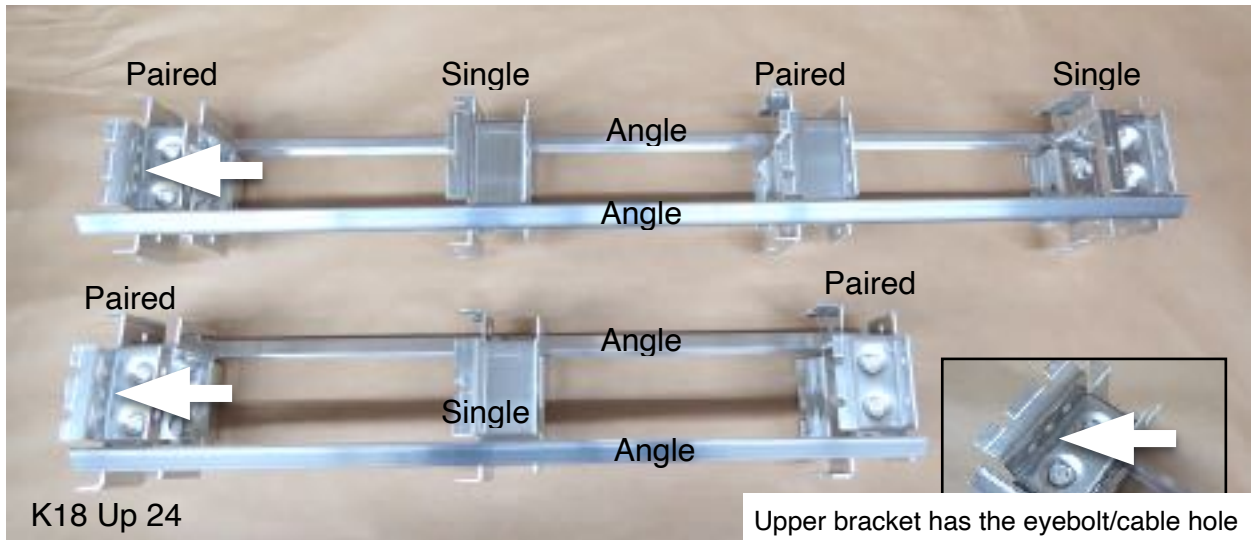
Step 7). Do not tighten the bolts and nuts yet, it's easier to assemble the rest of the brackets before tightening any of the bolts and nuts.

Step 8). We want to return to our original hub and remove the next bracket down, and place that bracket pair onto the next set of holes in the angle pieces. If you are working on a 12 up 18 or 24 that will be both original bracket pairs then you will add the new brackets. If you are upgrading an 18 up 24 you will use all 3 of the original bracket pairs moving them from the original angle pieces to your new angle pieces.

Step 9). There is a method to the order of bracket pair placement. ALL hubs start out with a paired bracket at the top. This is the bracket that has the center hole for the eyebolt/cable. So if we look at our hub from the top, you should have a double, a single, then you will follow with a double and if doing a 24 unit you will end with single hole. That way when you place your gourd-hanging arms on to the hub, you will have a pair, a single, a pair and a single (if you have a 24 unit upgrade).



Troyer's K-Series: I2UPI8, I2UP24, I8UP24



Step 10). Tighten all the bolts and nuts from the bolt side using your 7/16" wrench. Its time to replace the eyebolt/cable. Insert the stem of the eyebolt into the center hole of the uppermost bracket, thread on the lock nut and using 1/2" wrench tighten the lock nut. Again it helps to put a screw driver thru the eye of the eyebolt to keep it from twisting.

Step 11). Reinstall the hub onto your pole, refer to your gourd racks instruction sheet as a guide.

Step 11). Place all your gourd-hanging arms into the brackets, hang your gourds, insert hitch pins into the end of the gourd arms, and don't forget to place some pine needles into the gourds for the martins. You have successfully converted your gourd rack.

Thank you for purchasing this upgrade kit from us!