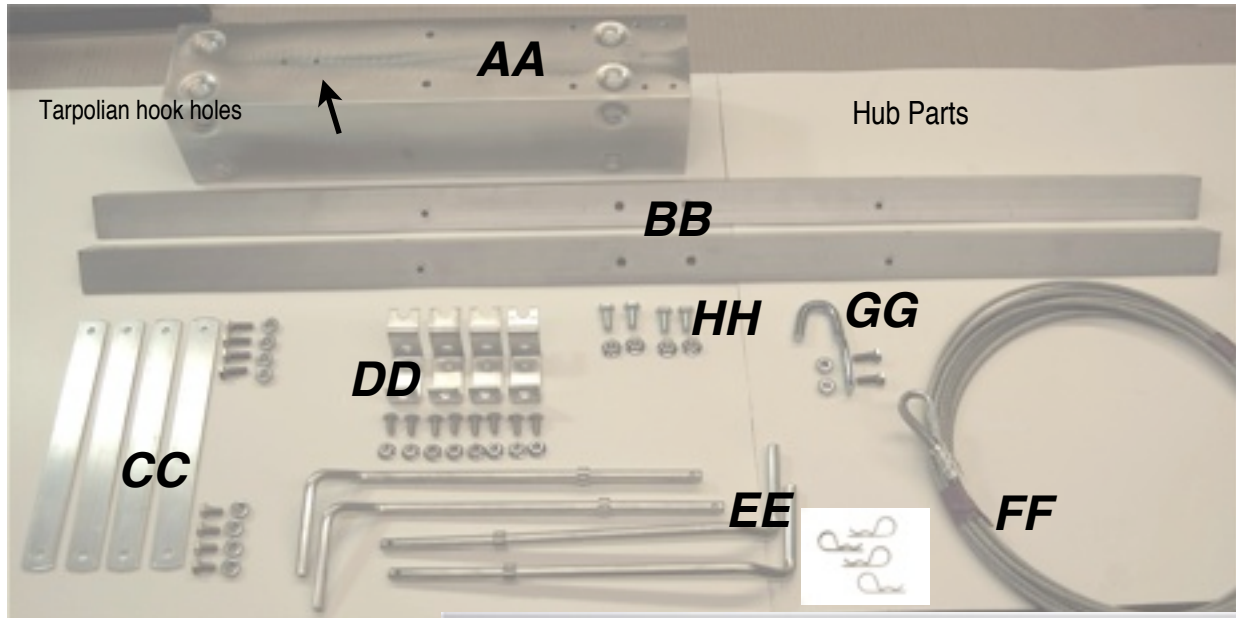


Heavy Duty Multi-Purpose Pole (HDMP)

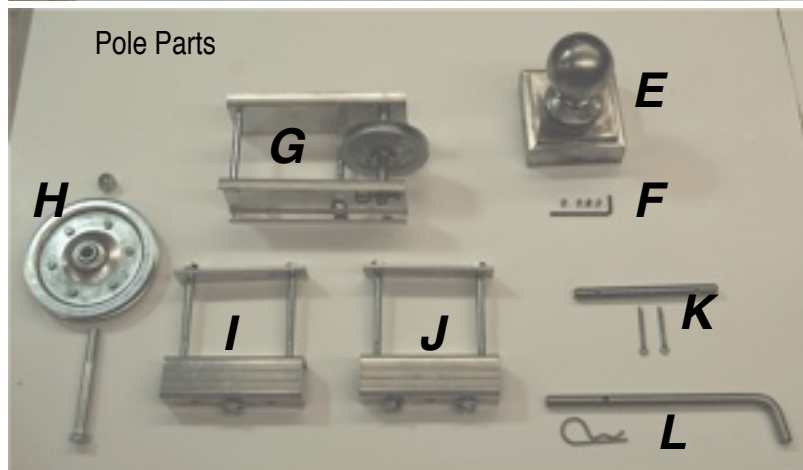
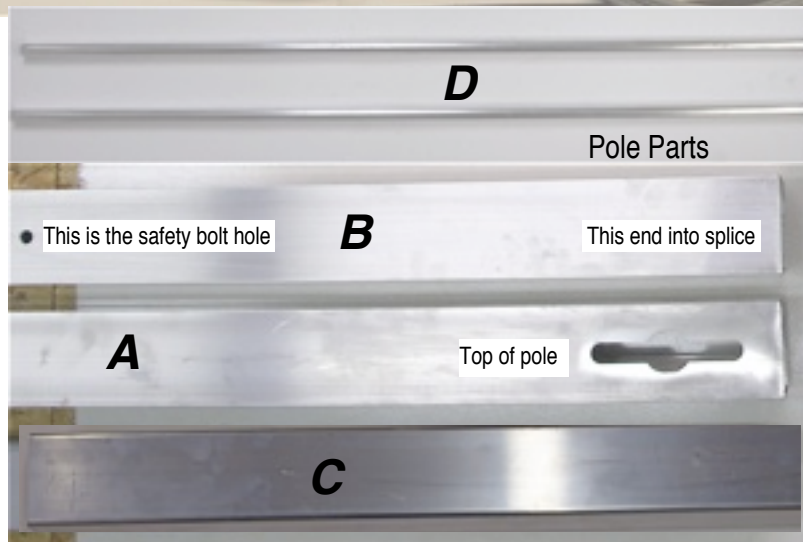


POLE PARTS

- A** Top of Pole (packed in pole box)
- B** Bottom of Pole (packed in pole box)
- C** Ground Stake (packed in pole box)
- D** Top perch rods (packed in pole box)
- E** Ball Top
- F** allen wrench and 4 set screws
- G** Pre-assembled 3" pulley guide
- H** 4" pulley, 3/8" bolt and lock nut
- I** Brake winch bracket (single bolt)
- J** Brake winch bracket (double bolt)
- K** Stop Pin with cotter pins
- L** Safety Bolt with hitch pin

HUB PARTS

- AA** Hub
- BB** 2-Angle arms
- CC** 4 aluminum braces W/ hardware
- DD** 4 Gourd Mounting Brackets W/ hardware
- EE** Aluminum gourd arms w/ hitch pins (horizontal arms shown)
- FF** 33' of cable
- GG** Tarpolian hook with hardware
- HH** grade 5 bolts used to attach the angle arms to the hub.



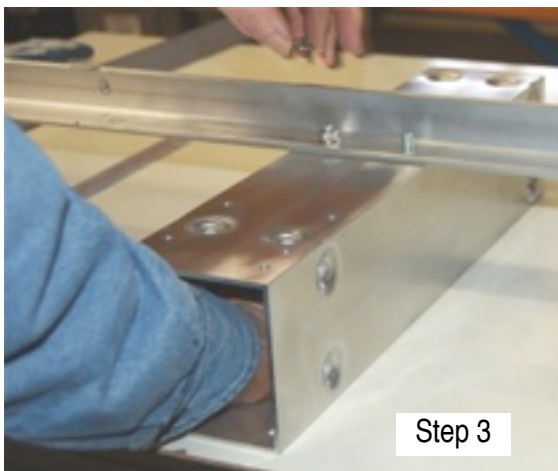
Heavy Duty Multi-Purpose Pole (HDMP)

Hub Assembly

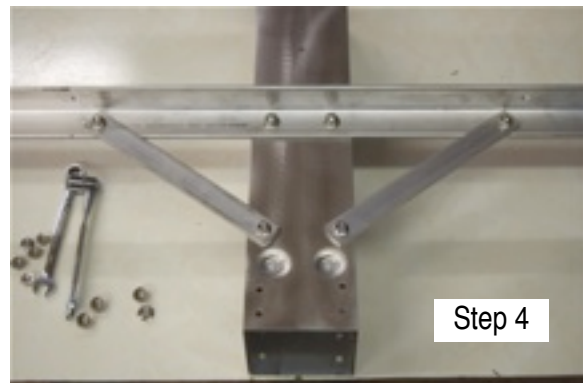
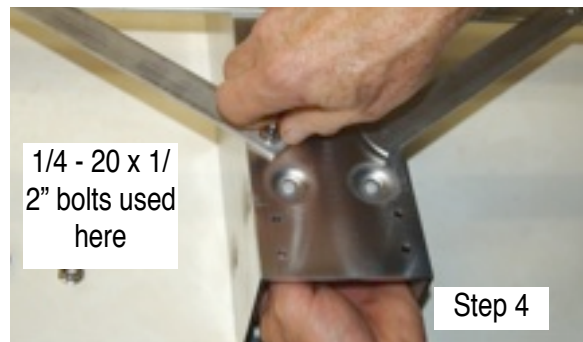
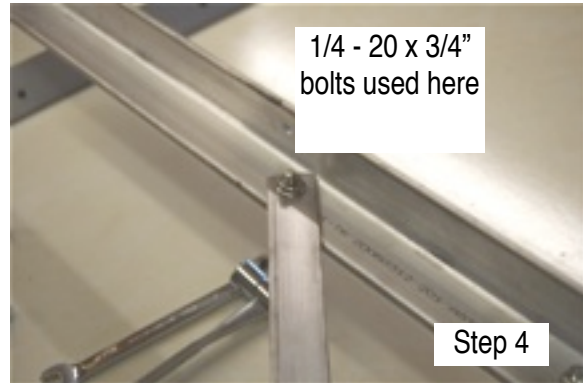
Step 1) You will need your hub (AA) 2 angle arms (BB), the 4 aluminum braces (CC) the 4 gourd mounting brackets and the bag of hardware clearly marked for "hub assembly". You will also need wrenches in 1/2" and 7/16" sizes.

Step 2) Place your hub on table with the side up that has a pair of holes used for the tarpolian hook facing up.

Step 3) Get 1 of the angle arms (BB) and 2 of the 5/16-18 x 3/4" plated grade 5 bolts (HH). Insert 1 of the bolts from inside the hub going thru one of the center sets of hole, with the bolt lining up with the center section of angle holes. Thread on the 5/16 stainless whiz nut. Repeat with the other hole right next to it. Do not tighten the nuts.



Step 4) You will need 2 of your aluminum braces (CC) and the 2 of the 1/4-20 x 3/4" and 2 1/4-20 x 1/2" stainless steel bolts with nuts. Insert a 3/4" bolt from the back side of the angle arm thru the brace and thread the nut on, repeat with the opposite side. Remember don't tighten the whiz nuts. Bring the braces in towards the hub and align with the pre-drilled holes on the hub. This time you you using your 1/4-20 1/2" stainless bolts with stainless whiz nut and insert the bolts from inside the hub and thread the whiz nuts on.



Step 5) Checking to be sure the angle arms are square to the hub. Do this by placing a speed square on the hub above the angle arm, adjust the angle arm square to the hub and tighten the 6 nuts you have just installed. You may need to use a wrench to hold the bolt from the inside of the hub while tighten nuts.

Step 6) Adding the gourd mounting brackets. IF YOU ARE NOT ADDING GOURD TO YOUR MP POLE SKIP THIS STEP. You will need your gourd mounting brackets (DD), and 4 - 1/4-20 x 1/2" stainless bolts with whiz nuts. Align the bracket holes over the hubs pre-drilled holes. Insert the

Heavy Duty Multi-Purpose Pole (HDMP)

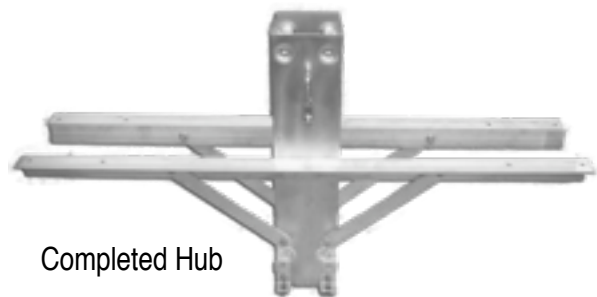
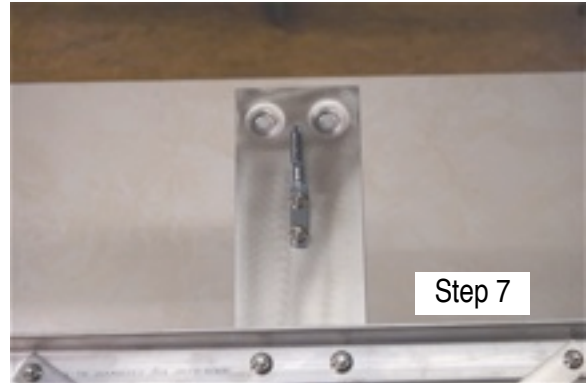


bolt from the inside thru the bracket, thread on whiz nut and repeat. Put both brackets on, make sure the bracket is squared to the hub then tighten the nuts.



Step 7) Installing the tarpolian hook. Flip the hub around so the pre-drilled holes are closest to you. Line the holes of the hook to the holes of the hub, insert the 1/4-20/3/4" stainless bolt from the inside of the hub thru the hook. Your hook should be installed like the photo.

Step 8) Flip the hub over repeat Step 3 - 6. When done make sure that ALL your nuts have been tightened.



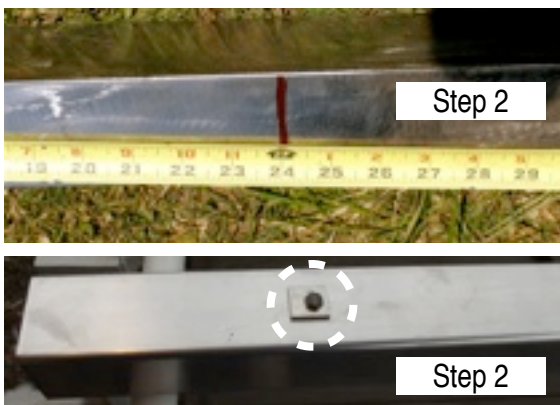
Heavy Duty Multi-Purpose Pole (HDMP)

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.

Step 1) Installing the Ground Stake (C). Using a post hole digger dig a hole with a minimum depth of 32-36" by 12" in diameter. *Poor soil conditions may warrant a larger hole and more concrete.*



Step 2) Measure and mark your ground stake at 24" from the end opposite the removable stop. This will help keep your ground stake at the proper installed above ground height.



Step 3) You will need at least 4 bags of Ready to Use Concrete Mix, 80 pounds each.

Step 4) Empty contents of the Ready Mix into an old wheel barrow. *Mix and handle the concrete according to the directions on the bag.*

Step 5) Place about 4" of pea gravel into the hole.

Step 6) Fill your newly dug hole with concrete, right up to the top of your hole.

Step 7) Holding your ground stake vertically over the cement insert the aluminum ground stake into the concrete by pushing downward and pulling



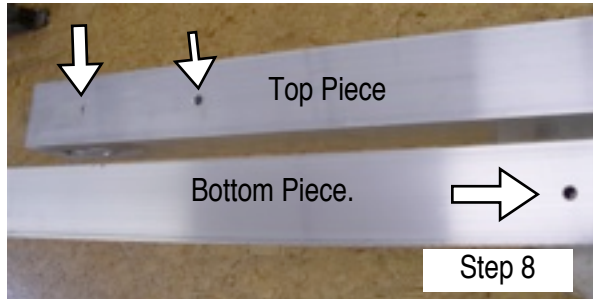
upward in a firm and steady motion. Stop inserting the ground stake when your stake is inserted to the 24" mark. Did you remember to place the end with the stop piece into the concrete? If not don't panic. When the concrete is cured simply remove the bolt and the small stop piece. Next fill the hollow tube with your left over cement. Compact the cement by gently tapping the side of the stake to settle the concrete. Wipe off any cement from the exterior of the stake. Finish by sloping the concrete at the base of the stake. Check for plumb (level) on 2 sides of your stake. For best results allow 2 days for your concrete to cure before installing pole.



Step 8) Assemble the pole. Take your bottom section (B) and lay over an upturned 5 gallon bucket or similar object. Lay the top pole section

Heavy Duty Multi-Purpose Pole (HDMP)

(A) next to it. Rotate the bottom pole (B) section till you see 1 hole facing upward about 6 feet one one of the square cut ends. You will want to insert the splice of the top section (A) into the end of the bottom section closest to this hole. Rotate the top section (A) till you see 2 drilled holes. Before insertion the splice into the bottom sec-



tion, spray the splice with WD 40. Slip the splice into the bottom section. When together the 16' section of pole facing you will show a series of 3 holes lines up on the same side.

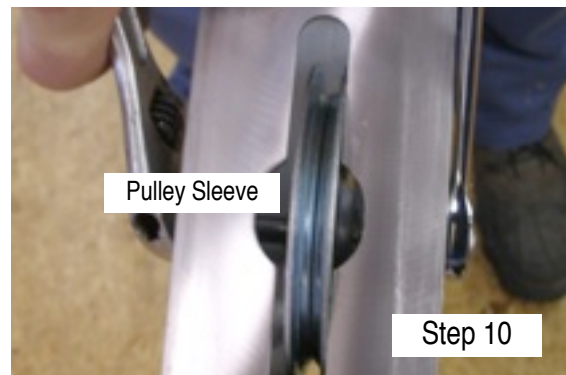


Step 9) Slide your assembled hub thru the pole so that the hub with the tarpolian hook is facing the top of the pole and that the hub unit (with the tarpolian hook) is on the same side as the pulley slot.

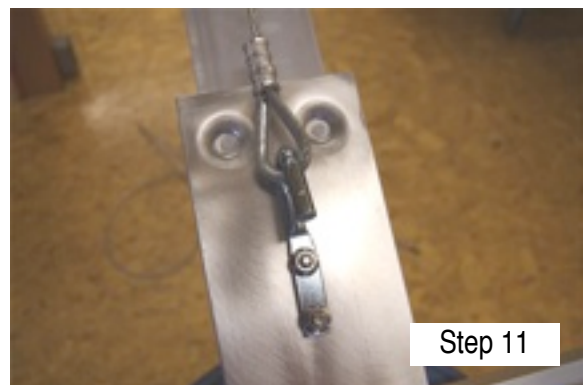


Step 10) Insert the 4 inch pulley into the pulley slot. You will need your 4 inch pulley, bolt and lock nut (H). Insert the pulley into the slot and hold it there while you take the bolt and insert the bolt into the hole, through the pulley and out the opposite side of the pole. Place lock nut on and

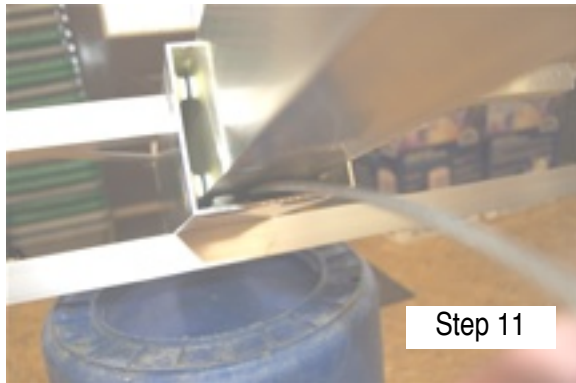
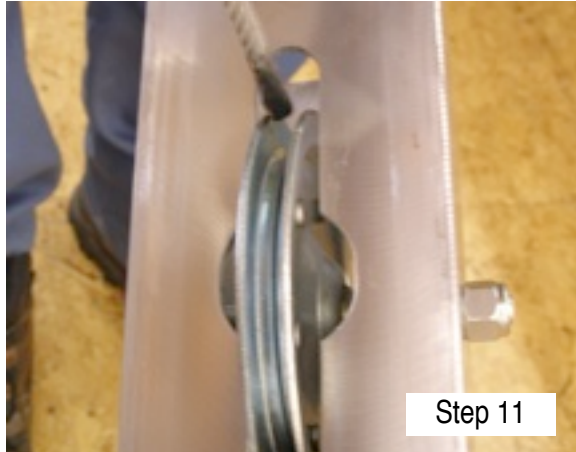
tighten using 2 9/16" wrenches (one to hold bolt the other to tighten).



Step 11) Take the end of the cable that has the crimp and insert the loop through the tarpolian hook. Find the opposite end of the cable and run the cable from the same side as the tarpolian hook, upwards to the 4 inch pulley thru the pulley and back downwards, sending the end of the cable thru the center of the hub between the hub and the pole. If the cable does not come out the bottom of the hub in the center, between the glide buttons do it again.



Heavy Duty Multi-Purpose Pole (HDMP)



Step 12) Insert the stop pin into the hole below the pulley sleeve. Remove one of the preinstalled hitch pins, insert the pin replace hitch pin.



Step 13) Ball top and top perch rods. **IMPORTANT!** Depending on your housing you may or may not be able to use both top perch rods. To install the top perches into the ball top (E), measure the top perches (D) and find the center of the top perch and mark. Partially insert the larger set screws (F) into the small tapped holes (under the ball) only enough to hold the set screw. Use the allen wrench provided (F). Insert the top perch into the pre-drilled holes of the ball top and tighten set screw with allen wrench. Repeat for the other top perch rod. Fully seat the ball on top of the pole (a rubber mallet MAY be needed) and using the smaller set screws insert into the drilled-tapped holes and tighten. It is very important to tighten the set screws snugly to both the rods and the pole.



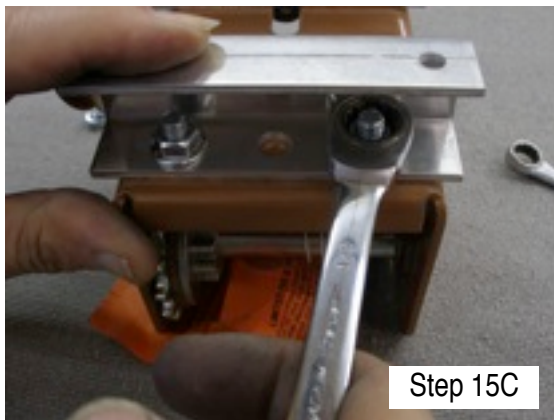
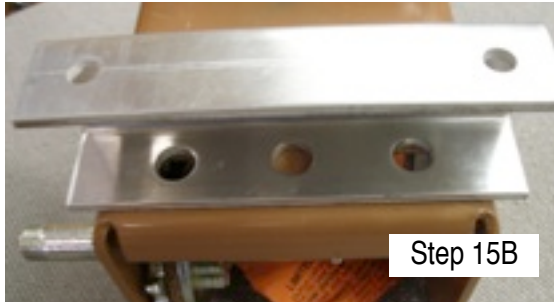
Step 14) Place a C-clamp on your pole at around 3 -4 feet up from the bottom. With the aid of a helper run your hub down the pole to the clamp and stand the pole up and with your helper lift the pole up and over your ground stake.



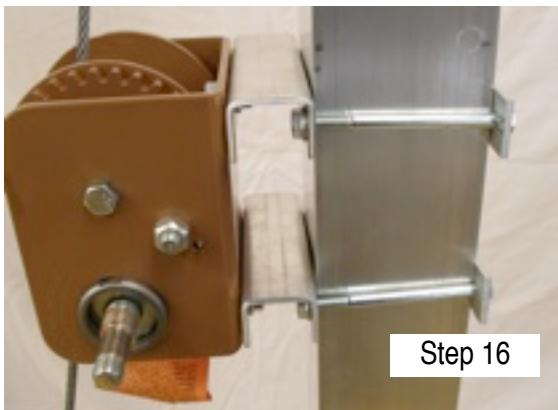
Step 15) Install the brake winch brackets and winch. You have either purchased our DLB 350A brake winch or have provided one of your own. ***Failure to use the DLB350A brake winch, or any brake winch could cause harm to the operator.*** Get your winch and the pre-assembled winch mounting hardware kits (I & J). Remove the bolt on the bracket (I) and align the bracket to the inner hole at the top of the winch. Insert the bolt from inside the winch and attach nut. Tighten the nut. Get your other bracket (J), align the 2 outer holes of the winch bracket to the winches lower holes, insert bolts from inside the winch, and tighten nuts using your 1/2" wrench. See photos Step 15 A, B, and C. You want your brackets to have the open side face towards the ground as seen in the photo 16.



Heavy Duty Multi-Purpose Pole (HDMP)

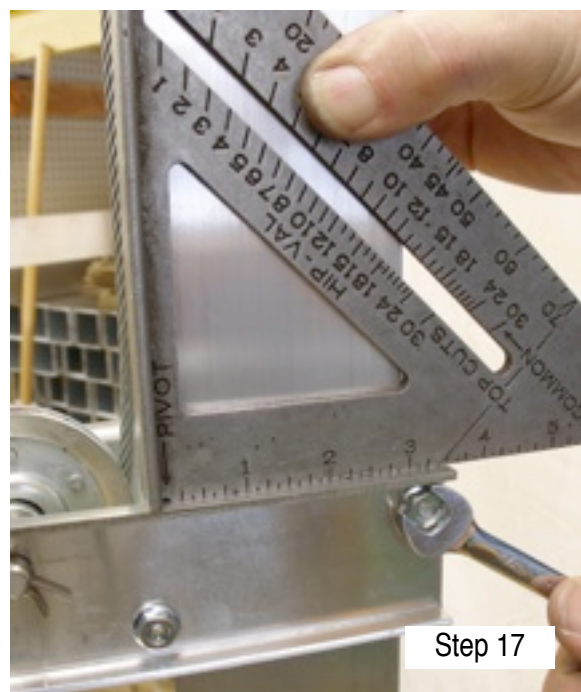
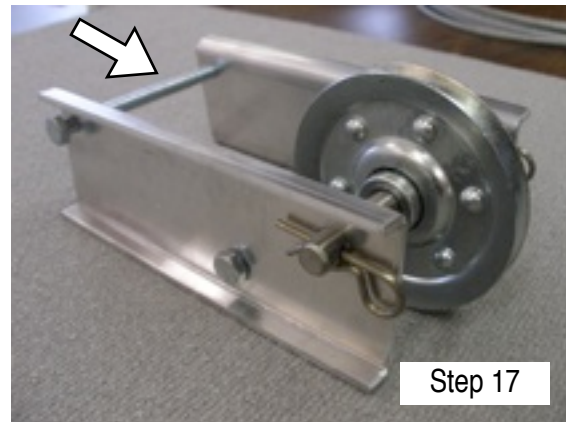


Step 16) Assembling the winch to the pole. Your winch bracket kit has a back plate pre assembled. Remove one whiz nut and bolt from the upper bracket and one from the lower bracket, same side. Have your helper hold the winch at your desired height while you attach the back plates on the back side of pole and tighten whiz nuts. See photo Step 16D. Your mounted brake winch is on the opposite side as the tarpolian hook is that is on your hub.



Step 17) Approximately 3-6 inches above the winch you will want to place the 3 inch pulley assembly (G). The 3 inch pulley assembly has been completely pre-assembled. Pull the entire assembly apart. It should look like the photo. Notice the orientation of the hitch pins. Remove the bolt and nut from the bolt furthest from the pulley. Stand directly to the front of your mounted brake

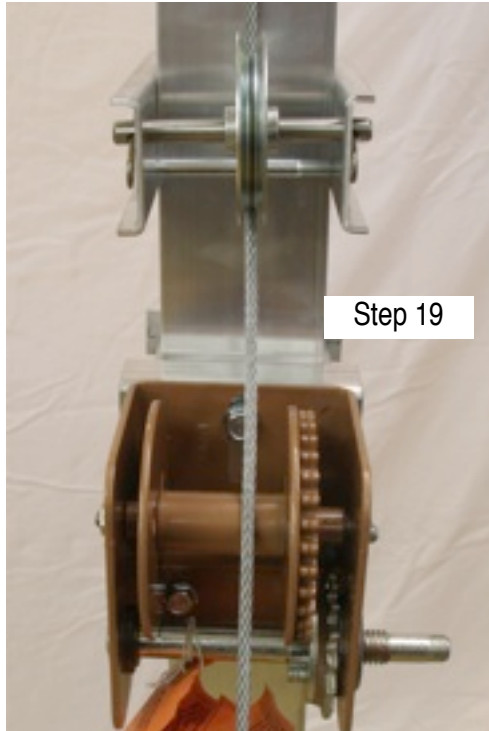
winch and slide this entire unit so that the brackets encase the pole. Replace the bolt and nut, make sure the bracket is square to the pole and tighten the nuts.



Step 18) Find the end of your cable and run it so that it falls behind the 3" pulley and then drape the cable to the front of the brake winch. **Please read and follow the instructions that came with your winch. These instructions will also explain how the cable should be attached to the drum of winch.** Once you have attached the cable to the winch you can remove the c clamp.

Step 19) Assemble housing to the angle arms. If using aluminum housing make a custom fit wooden bottom. You will need a piece of 1/2" or thicker exterior grade plywood (not provided). Cut the plywood the size of your aluminum house bottom. Some aluminum houses have lips along

Heavy Duty Multi-Purpose Pole (HDMP)



the edges, if yours does, cut your plywood so that it is within the lips of the house. Next pre drill holes into the plywood that will be used to mount the plywood to your aluminum house. If your wooden platform will align with the pre-punched holes in the angle, mark the holes and drill your plywood, or drill your own holes in the angle arms. We recommend that you use ¼"-20 carriage bolts to mount the plywood platform to the angle arms. After the plywood has been bolted in place, place your housing on the wood and either screw your housing into place or bolt the housing on the wooden platform. After your houses are in place install your aluminum gourd arms into the gourd arm brackets. Orient the gourd arms, so that you have one arm facing the right and one facing the left. Put your favorite gourd on and slide the hitch pin into the gourd arm. Hitch pin will hold the gourd in place. After you take your housing up insert your safety bolt (L) into the hole that is approximately 6 feet up from the ground, insert hitch pin. That's it! While raising your housing watch to make sure your housing doesn't hit the top perch rods before the hub hits the stop pin. If your housing hits the top perches, you will not be able to raise your hub to the stop pin, without removing a top perch rod.



How to care for your rack.

Due to the size and design of this unit, you may wish to leave it up year round. Remove gourds. You can wax your pole, hub and arms at the end of each season using your favorite car wax. Periodically check the bolts and nuts during the year.

Wire cable can fray over time. Check your cable periodically for signs of fraying or damage. Should you need a replacement cable, simply get in touch with us, we will get you a new cable at a reasonable cost.

Optional Accessories

Add 2 more gourds on to your HDMP hub
The Add a Bracket can be added at any time. Choose from either vertical or horizontal (shown, see circle) gourd arm. Call for pricing. Gourds not included.



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