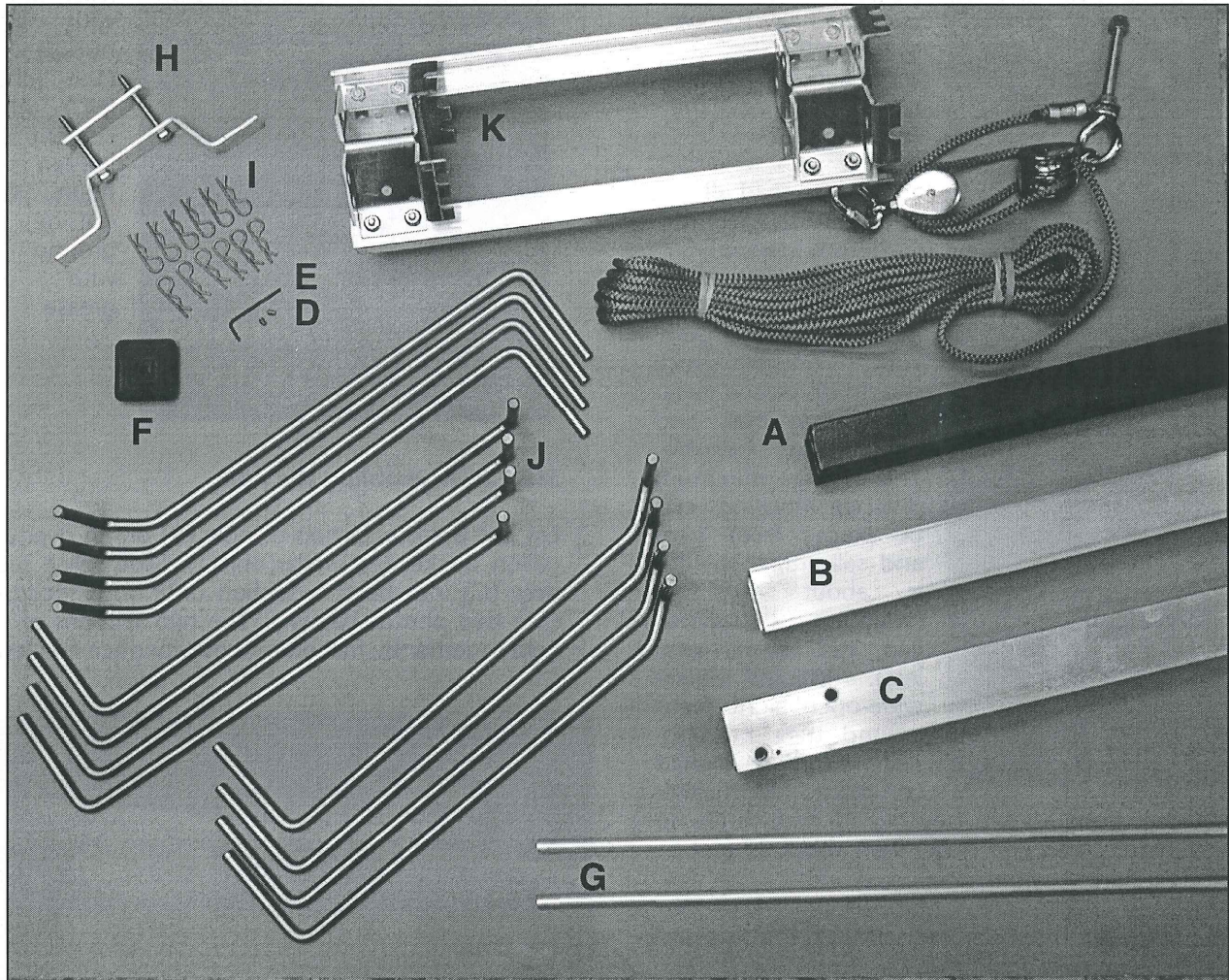


DGR and EGR Gourd Racks



Shown above are parts for the two-level, Deluxe Gourd Rack (DGR12V) with 12 arms for vertically hung gourds.

Parts List (see last page for photo of arms for DGR12H or DGR12C systems)

Code	Quantity	Description
A	1	Ground stake
B	1	<u>BOTTOM</u> pole section (no holes)
C	1	<u>TOP</u> pole section with bottom splice
D	2	10-24 x 1/4" stainless steel set screws
E	1	3/32" Allen wrench
F	1	Plastic cap for pole top
G	2	Top perch rods (packed with poles)
H	1	Fully-assembled rope winder with (2) 2-1/2" stainless steel hex bolts and (2) 1/4" -20 stainless steel nuts attached
I	6, 12 or 24	Hitch pins (Depending on which system you have)
J	6, 12 or 24	Gourd hanging arms (straight, left-bend, and right-bend arms)
K	1	Assembled hub, rope, pulleys, quick link carabineer, and 3/8" stainless steel eyebolt



Thank you for purchasing this product from the PMCA. Your purchase helps support the education, conservation, and research projects of the PMCA.

Please read all instructions carefully before assembly!

Location of pole: Your gourd rack should be placed as far away from trees and bushes as possible. The average minimum distance housing can be placed from trees and still attract martins is about 40 feet (southern landlords can get away with less). Martins require wide-open flight paths around their housing. Also, housing should be placed no further

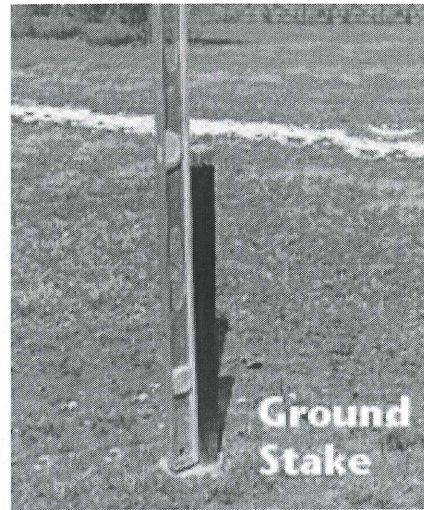
than 120 feet from human housing — martins like to be near humans — and no closer than about 25 feet.

Step 1: Digging the Hole and setting the Ground Stake

- Using a posthole digger, dig a hole 36" deep by 9" wide.
- Put the ground stake (A) in the center of the hole. The ground stake is the 1-1/2" X 1-1/2" square black steel tube with a long piece of angle iron welded to it. The end of the ground stake with the long piece of welded angle iron should be the end that sticks out of the ground.
- Add two 80# bags of wet, premixed concrete and fill the hole to ground level. The lower edge of the bottom section of the pole will rest on the concrete. Depending on soil conditions, a larger hole with more concrete may be needed. Be sure to leave 21" of the ground stake above the concrete.

Important: fill the ground stake itself with cement to prevent water from accumulating and freezing inside. This also keeps the inside of the ground stake from rusting and makes it stronger.

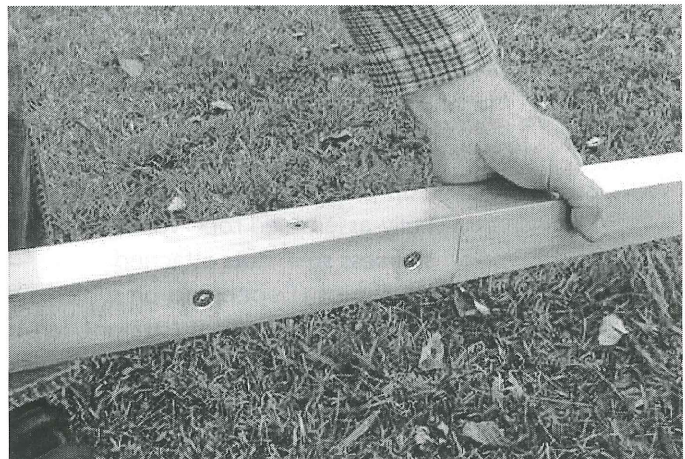
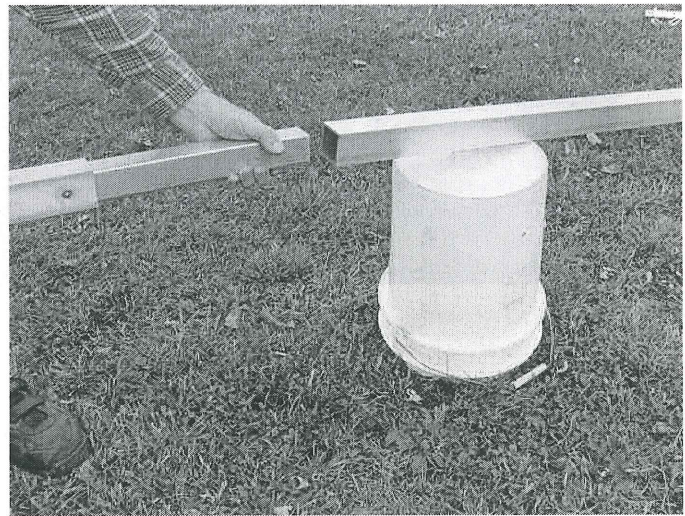
The gourd rack pole will be placed over this ground stake later in the assembly process. Wipe off any wet cement from the outside of the ground stake above ground level; the pole will need to slide over this ground stake smoothly. Before the cement hardens, make sure the ground stake is vertically plumb by



checking it on at least two planes with a long bubble level. (See photo at left.) Allow the cement to harden for 48 hours. Coat the outside of the ground stake with oil or grease.

Step 2: Assembling the pole

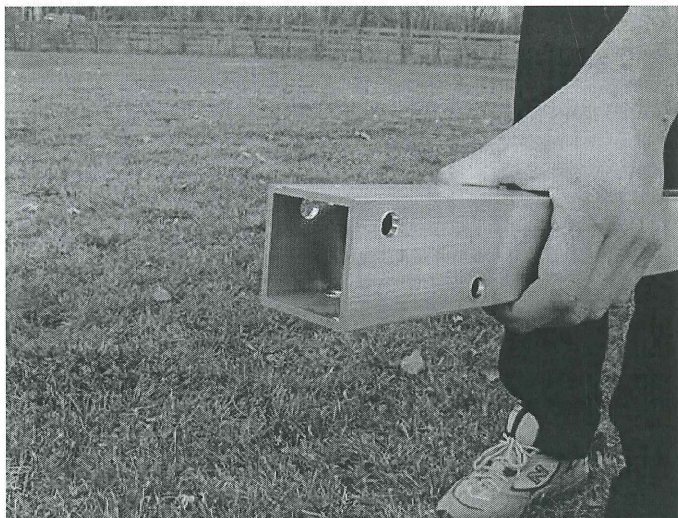
Lay the bottom section of pole (B) on an overturned 5-gallon bucket (or similar object). Slide splice section of pole (C) into bottom section until both sections meet (See two photos below.) The two sections of pole are held together by friction and gravity once erected.



Step 3: Sliding the Hub onto the Pole

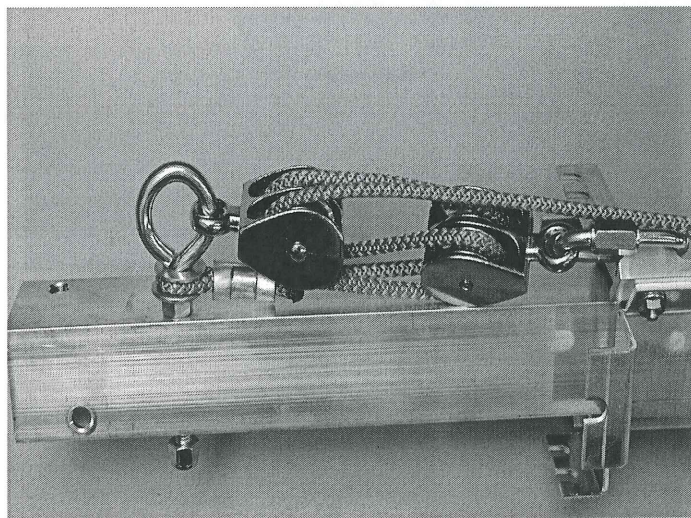
Please note: the very top of the pole has four 3/8" holes where the top perch rods will be inserted later in the assembly process, and two tiny set screw holes.

Orient the pole so that the lowest of all holes is on the left side as shown in photo below; this lowest hole (the 3/8" hole approximately 3-1/4" down from the top of pole) will hold the eyebolt with the double pulleys. Slide hub assembly (K) over pole so that the quick link (carabineer) is on the same side as the 3/8" hole (see second photo below). The hub assembly (K) is completely assembled at the factory with rope and pulley system attached to top of hub.



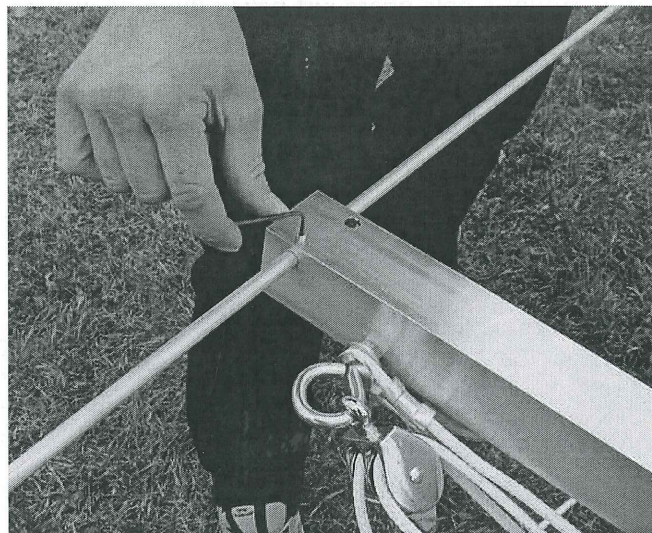
Step 4: Attaching the Pulley to the Pole

Remove the outer locknut from the 3/8" eyebolt and push the eyebolt through the 3/8" hole in top section of pole. Upper pulley should be on the same side of the pole as the pulley on the hub. Replace locknut and tighten with wrench. The split of the eyebolt should face upper end of pipe so pulley hangs freely and eyebolt will not open with the weight of the hub assembly (see photo)



While the pulley is in this position you must oil the pulleys for smooth and quiet operation. Any machine or engine oil works fine. Place several drops of oil between the pulley housing and the sheave, and oil both sides. The oil will run down the inside of the housing and onto the pulley shaft. This should be done each spring.

Step 5. Slide both perch rods (G) into holes in top of pole. Center the rods using a tape measure, then secure with two 10-24 x 1/4" set screws (D) and the 3/32" Allen wrench (E) that was included with the hardware.



Step 6: Inserting Pole Cap

Insert the black plastic plug cap (F) into top of pole. This is held in position by friction. **Important: without the cap at the top of the pole water will fill pole. If the water freezes the pole will split.**

