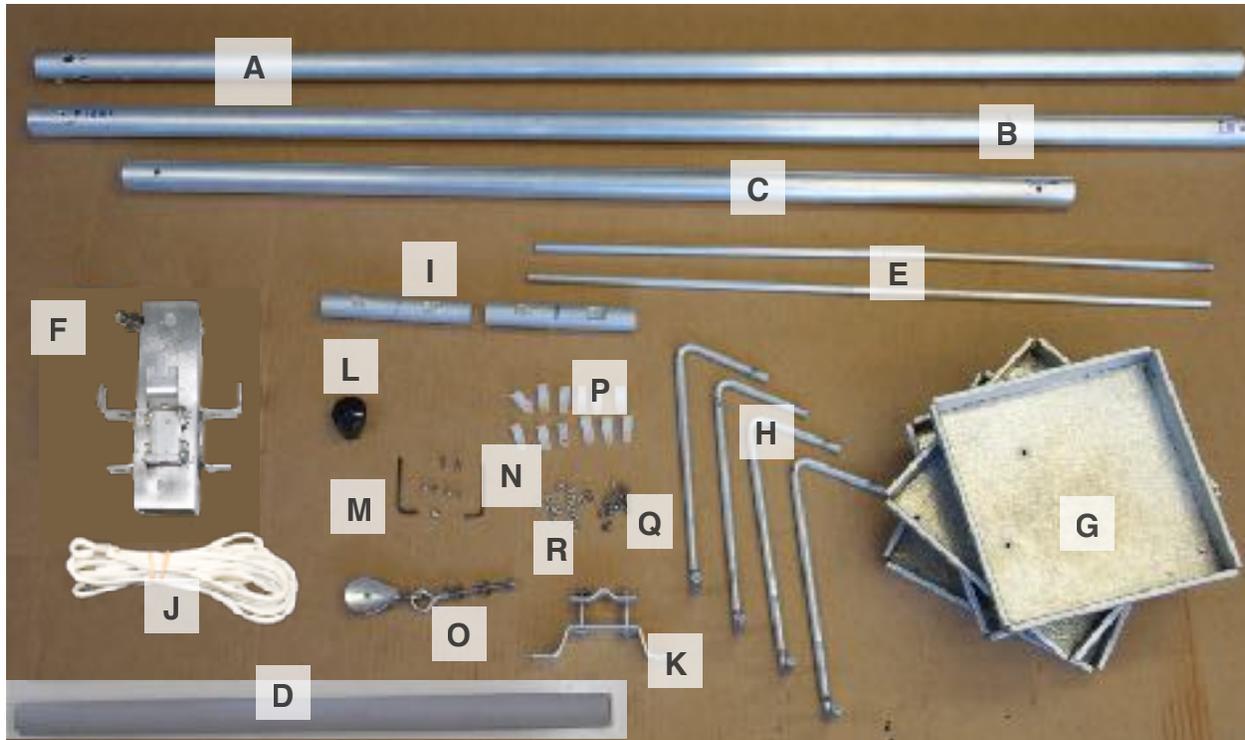


# Bed and Breakfast Instructions



## HARDWARE BAG

- A) Top of pole with many larger holes
- B) Middle section of pole with a tapped hole at each end
- C) Bottom of pole
- D) PVC Ground Socket (Has one machine screw inserted into the sleeve. A piece of plastic tape holds the screw in place and the tape should be removed before installation)
- E) Top Perch Rods
- F) Hub with brackets and rope attached bolt with hardware
- G) Trays
- H) Tray Arms
- I) Splice pieces
- J) Rope with Crimp
- K) Rope winder with assembled hardware
- L) Top Cap
- M) (4) 1/4 - 20 x 1/4" stainless steel set screws with a 1/8" allen wrench
- N) (2) 10 - 24 x 1/2" stainless steel set screws with 3/32" allen wrench
- O) Eye bolt with assembled hardware
- P) (12) 3/8 plastic clips
- Q) (12) #8 x 3/8" machine screw
- R) (12) # 8 nut

# Bed and Breakfast Instructions

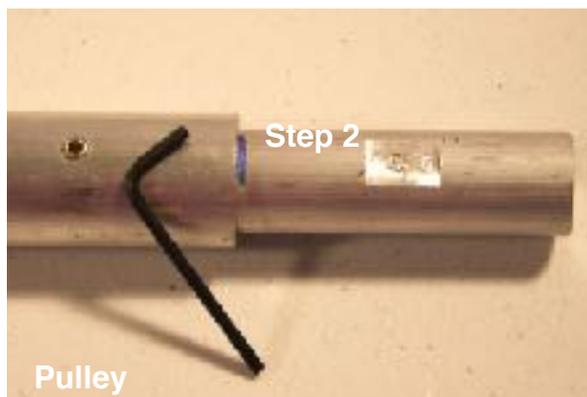
Location of a bed and breakfast should be within 10 feet of martin housing.

**Step 1)** Install ground stake (D). Dig a hole 24 inches deep by 6 inches in diameter. Measure and mark 2" from the top of the sleeve (the top is the end which has drilled and tapped hole in it) Place a piece of packing tape or like over the top of the sleeve. Place 2" of gravel in the bottom of hole. Place the pvc ground sleeve (D) into the hole. Mix one 80 pound bag of your favorite pre-mixed concrete. Follow the directions on the bag. Fill the hole with cement and pull up on the sleeve so that your 2" mark is at concrete level. Make sure the sleeve is plumb.

**Step 2)** Assemble the pole. Each B&B has a 3 section pole. The top piece (A) which has a bunch of larger holes, a middle section (B) with a drilled and tapped hole at each end and the bottom section (C). We will begin by installing the splice pieces into the middle section (B). You will need the 2 aluminum bar splice sections (I) as well as 2 of the  $\frac{1}{4}$ "-20 x  $\frac{1}{4}$ " set screws (M) and the  $\frac{1}{8}$ " allen wrench. Notice on the aluminum bar splice piece a flat sectioned has been milled into each end. Measure the splice piece and find the center and mark it with the flat milled section facing up. Thread one of the  $\frac{1}{4}$ -20 x  $\frac{1}{4}$ " set screws into the tapped hole on the middle section. Do only enough so the set screw will stay in place. Insert the splice flat section up into the end of the middle section and stop when you meet your center mark. Using the  $\frac{1}{8}$ " allen wrench tighten the set screw. The set screw should be tightened and be just below flush on your pole. Flip the middle section around and repeat this step at the other end. Set aside the middle section and get your top section of the pole (A).

**Step 3)** We will begin by installing the pulley with attached eyebolt (O). Your eyebolt has various pieces of hardware installed for you. You need to remove the lock nut from the end and one of the 2 washers. Insert the eyebolt thru the lower hole on the pole, then add the washer and then the lock nut. Using a  $\frac{7}{16}$ " wrench tighten the lock nut all the way till it meets the pole. See photo 3A

Next we will install the top perch rods ((E) into the larger holes above the pulley. Locate



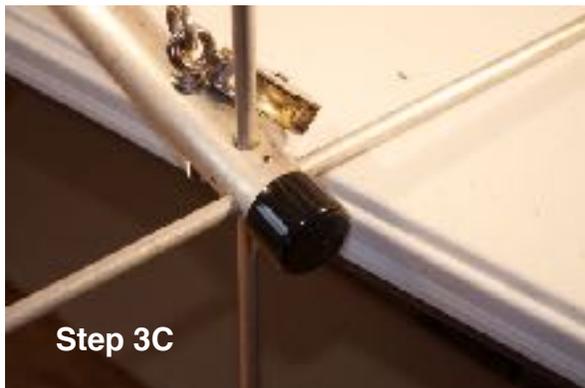
# Bed and Breakfast Instructions

the 2 tapped holes. Thread into the holes your 1/2"-20 x 1/2" set screws using your 3/32 allen wrench. Measure and mark the center of the top perch rods. Insert the rod into the hole doing the uppermost rod first. Tighten the set screws See photos 3B and 3C.

Next place the black cap over the top of the pole. See step 3C.



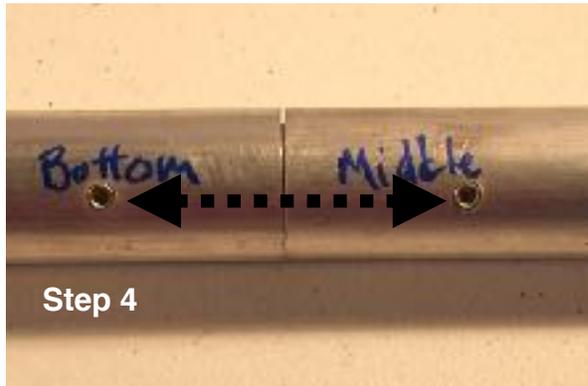
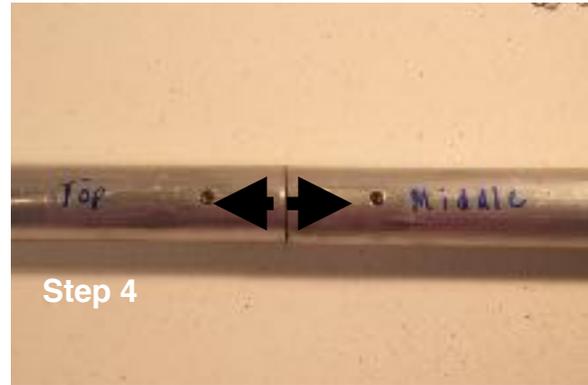
**Step 4)** Next we will attach the 3 sections of the pole together. Take your top pole sec-



tion and middle section. Align the middle section so that the drilled and tapped hole on the top section aligns with the set screw that holds the splice into place. Insert the splice, thread the 1/4"-20 x 1/4" (M) set screw into the

tapped hole. Align the set screw and tighten. Next add the bottom section. Its the same way. Align the set screw holes, insert the screw and tighten.

**Step 5)** Slip the hub onto the pole bottom



and slide it up the pole.

**Step 6)** Rope Winder (K). The rope winder needs to be oriented under the pulley. Easiest way is to lay the assembled pole on the ground pulley facing up towards the sky. Measure from the bottom up to around 50". Your rope winder has been assembled for



you. Loosen and remove one of the whiz

# Bed and Breakfast Instructions

nuts. Slip the back piece of the rope winder around the pole. Replace the bolt into the back plate, thread the nut back on and tighten using a 7/16" wrench. Set the pole aside.

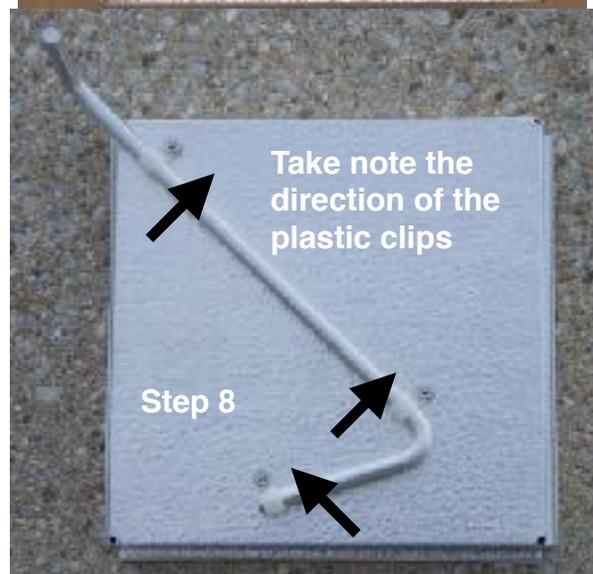
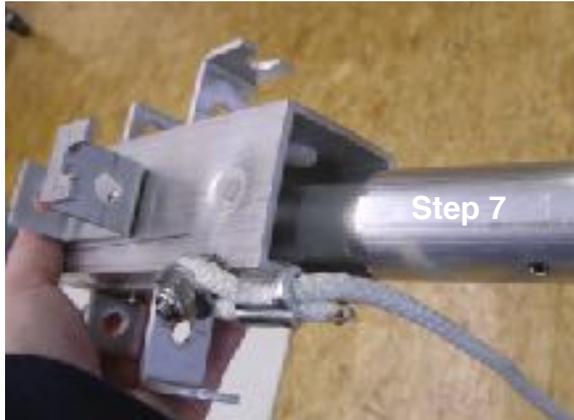


insert the rope thru the back of the pulley and pull the rope over and thru the pulley so that the rope falls forward of the hub and pole. See step 7 photos.

Pull the rope down and loosely tie it on to your rope winder.

**Step 8)** Assemble the trays. The arms are attached to the underside of the feeding trays. Each tray will need 3 3/8" clips (P), 3 #8 x 3/8" screws (Q) and 3 #8 nuts (R). Lay the tray (G) on a flat surface bottom side up. Lay the arm over the tray so that the arm lays flat with the sharp bend of the arm facing the corner between 2 holes in the tray, see photo

**Step 7)** Add the rope (J) to the hub (F). Unfurl your rope and get the end that has a loop with crimp. Remove the lock nut and one washer from the bolt on the hub. Slip the loop of the rope onto the bolt. Replace the washer and lock nut. Holding your rope upwards, tighten the lock nut till the rope feels secure. Take the end of the rope and



# Bed and Breakfast Instructions

It can get a bit tricky holding all the parts, but take your time and you will see its not too bad. Take the  $\frac{3}{8}$ " plastic clips (P) and slip them onto the  $\frac{3}{8}$ " tray arm (H) exactly as seen in the photo. The holes in the clips will align with the holes on the trays. Now you need to slip a #8 x  $\frac{3}{8}$ " screw (Q) from inside the tray out. (The screw goes thru the hole from inside the tray, thru the hole in the clip and held in place with a nut.) Thread on a # 8 nut (R), continue to the next hole then the third. Once all 3 nuts are in place, go ahead and tighten them up. Repeat for the other 3 trays and set aside.

After waiting a day for the concrete to harden remove the packaging tape from the top of the ground sleeve. Your complete pole (with out trays) will now slip inside the ground sleeve. Tighten the screw that is in the sleeve to the pole. This will keep the pole from spinning inside the sleeve.

The rope winder may need to be adjusted to a comfortable height. Simply loosen the nuts and slide the rope winder to comfortable height. One person can do it by raising the hub and standing on the rope. Tie the excess rope off on to your rope winder. Now its time to place the trays into the hub's C-brackets. You are now ready to teach your martins to eat from your feeding station. Tips on how to teach your martins to use the feeder are found on the last page.

Trays lift out of the hub for easy cleaning. You can leave your pole up year round, but you should bring your trays in.

**A Bed & Breakfast  
ready and waiting  
for the returning martins.**



# Bed and Breakfast Instructions

Supplemental feeding is frustrating at the beginning but the rewards of saving your colony outnumber this discomfort of a sore finger or getting wet. Here is how we taught our martins to eat. First don't try to teach your Martins to eat scrambled egg, just won't happen in my opinion. Break down and buy some crickets. Depending on your colony size you will want at least 1000 pre wing size (1") crickets. Place your order for crickets before your Martins return. When your crickets arrive place them in your freezer, box and all. I leave my frozen crickets in the box, till I need them, but you could place frozen crickets into storage bags if that suits you better.

When your weather turns (and it always does) retrieve some of your frozen crickets and place them on a paper plate or paper towel. You can defrost them using a microwave or leave out till the crickets have reached room temperature. Never feed a frozen cricket. Now the martins need to be hungry, so on the first day of inclement weather, your martins may look at you comically as you fling crickets, but still, stand near your racks and using a plastic spoon launch the cricket air borne, (place cricket on spoon head, hold handle in one hand, and gently pull back on the spoon head till the plastic spoon is flexed, and let go, the cricket will be airborne) over the martins head, but never flick crickets directly at the martins. It takes only one martin to get the frenzy started. Once your martins accept your flinging crickets your half way there. Now comes the easy part. Do you have a bed and breakfast or did you build your own feeding platform? Lets face it, humans are generally lazy, why fling crickets if we can teach the Martins to eat at one place, and we don't need to get wet? Well, how can we accomplish this? Start by placing a few crickets in your B&B or on your platform. If your feeding station raises, like our B&B, raise up the trays with crickets on it. Stand under or near the feeding station. Begin to launch your crickets using your spoon. Try to get the martins near the feeding platform. Feed less crickets than you may normally, getting the martins near the feeding station to see the provided crickets. Walk away. Again it takes only 1 martin to land on the feeding platform. Once this happens you can place more and more crickets into the feeding station.

During long cold wet spells, your martins can eat you out of house and home. That's when egg comes into play. You have trained your martins to eat crickets from the feeding platform, now its time to add scrambled eggs. We make our scrambled eggs by placing 6 eggs into a microwave safe bowl, and whisk. Microwave till cooked and then chop into small pieces. Place your scrambled eggs into your feeding trays, spread it around, add a few crickets, and watch your martins. During long cold spells you will need to fill your feeding station as often as possible. It's such a thrill to see them eat your offerings. Knowing that your martins will survive this cold snap brings you great joy. You will notice that your Martins will even come to greet you as they await your food. It's such a thrill! And fear not, your Martins will return to catching their own food as soon as the temperatures raise and insects are flying. It is also my opinion that there are now so many of us landlords who supplemental feed that more and more martins are catching on faster every year.