



Bromeliad Slow Insect Feeder Instructions

With permission, adapted from instructions by Simon Fox of Yorkshire Wildlife Park



General Information

Bromeliads naturally occur in the home range of Golden Lion Tamarins. The tamarins search for prey within epiphytic plants using their adapted elongated hands and fingers to probe crevices and tight spaces between the bromeliad leaves to excavate and consume their prey. This behavior is known as micro-manipulative foraging.

Safety Concerns

Check that all screws are tight and there is no degradation of fire hose before offering this device

Materials Needed

- Round junction box with cover (that fits $\frac{3}{4}$ " pipe)
- $\frac{3}{4}$ " PVC
- $\frac{3}{4}$ " PVC cap
- PVC glue
- Eye bolt with locknut
- Carabiner
- PVC cutter or saw
- Plastic fire hose (2 different colors)
- Tool to cut fire hose (heavy duty

scissors/serrated knife)

Materials to connect the fire hose:

- Cable ties
- $\frac{1}{2}$ " Screws
- $\frac{1}{4}$ "x 1" Bolts (size right?)
- $\frac{1}{4}$ " Locknuts (1 per bolt)
- Washers (2 per bolt)
- Drill and drill bits
- Socket wrench with socket fitting bolts/nuts
- Wrench

Instructions

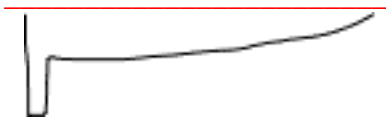
STEP 1 Cut the PVC to your desired length (suggested around 2'). Glue one end of the PVC to the junction box. The PVC cap can just be wedged on to the other end of the PVC when the device is in use, and then easily removed for cleaning. Secure the eye bolt on the junction box, opposite of the PVC piece.



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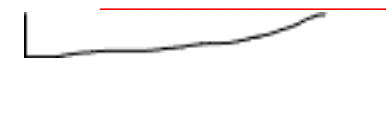
STEP 2 Create five leaves with tabs out of the fire hose. Using your fire hose cutter, cut the dominant color into five leaves of shortening lengths (ex. 12", 10", 8", 6", and 4") using the design below cut on the black lines. Use the edge of the fire hose as the fold in the leaf. Make holes in the end of the tabs to thread a cable tie though.



STEP 3 Repeat the process to make five more leaves of the same shortening lengths (12" to 4") using the design below. Use the edge of the fire hose as the fold in the leaf.



STEP 4 Create six petals (3 pairs) for the flowers using the second color of fire hose and the design below. Cut each pair at shortening lengths (ex. 3", 2", and 1"). Use the edge of the fire hose as the fold in the petal.



STEP 5 To assemble the stem, begin by drilling a hole through the PVC for a bolt, approximately $\frac{3}{4}$ " up from the cap on the bottom. Drill a second hole slightly above that one in the same direction to allow bugs to exit the PVC. Secure a bolt and nut through the bottom hole with a washer on either side of the PVC and tighten completely.

STEP 6 Starting with the longest leaf with a tab, position it so the bolt is in the leaf fold and wrap the tabs around the PVC. Thread cable ties through the holes in each tab to join together and tighten. Cut off any excess cable tie. Attach the corresponding length leaf (without tabs) directly opposite and use a screw through each bottom corner of the leaf and PVC to secure.

STEP 7 Repeat all of steps 5 and 6, each time drilling the first hole just above the base of the V created by the previous leaves, so that the leaves are rotated 90 degrees to the previous leaves.

STEP 8 To assemble the flower, start with the longest pair of petals. Screw one of each petal corner into the base of the V created by the leaves. Repeat for the remaining two pairs of petals, rotating 90 degrees to the previous petals.