DIY Push Pole Assembly Instructions and Best Practices for Tubes, Ferrules, Stainless Couplers, Spikes and Feet

Covers the installation of all Push Pole Parts

First, start by laying out and identifying all of your components. You may have a different mix of components than those in our most used layouts, but the assembly is the same. We will go in depth with the assembly of each component and where it is typically installed.

Possible components:

Fiberglass Round Tube
Fiberglass Ferrules
Male/Female Couplers
Spikes
Feet

Adhesives such as 50/50 epoxy JB Weld "Original Cold Weld Formula" does the job. JB Weld 2 part epoxy in the Red and Black tubes labeled "original cold weld formula steel reinforced epoxy, which is available in most hardware stores, sets up in a few hours and cures fully in a day or so, applies easily, and works very well.

J-B WELD

Glues which expand as they dry, such as "Gorilla Glue" are **NOT** recommended, because the glue tends to push the pieces off of the tubes as it expands which is counterproductive to what you are trying to do.. **Do NOT use PVC cement (purple and clear mixture)**, which works by dissolving PVC and "melting" it together. The PVC glue will NOT dissolve fiberglass, and will not work at all. **Do NOT use Liquid Nails or any other glue designed for gluing wood.** These glues will not bond to fiberglass and make a big mess.

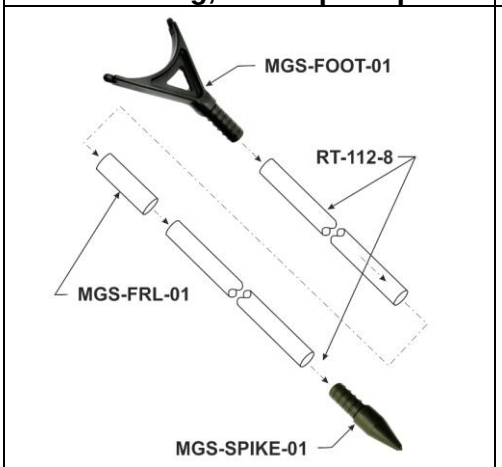
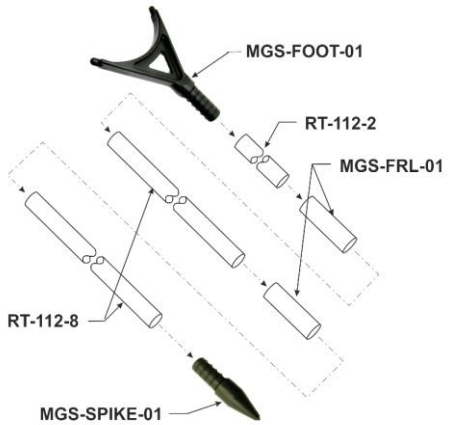
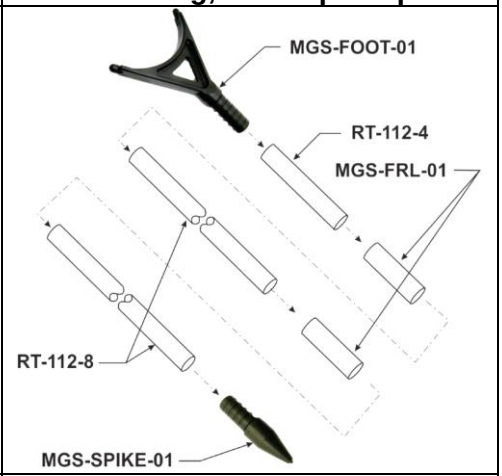
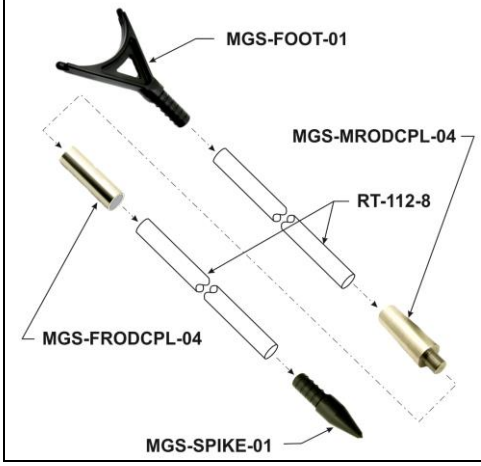
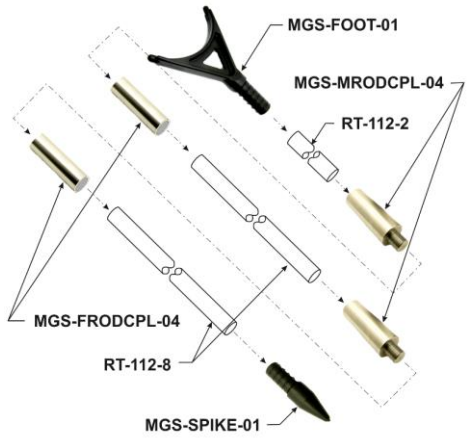
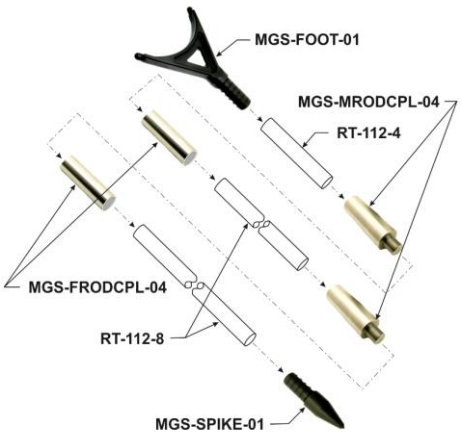
Surface Prep: DO NOT clean the fiberglass surface with alcohol, mineral spirits, etc… if you wish to clean the surface (remove the surface dust), use **ONLY** a damp towel to wipe off surface dust, then dry thoroughly.

Best practices when gluing: When gluing two tubes together, that nest inside one another, be sure to spread the adhesive on both the interior of the larger tube and the exterior of the inner tube. To apply adhesive to the interior of the larger tube, pre-mix your epoxy, spread the epoxy on the outside of a smaller diameter dowel and apply a thin layer on the inside of the larger tube. Be sure to apply a generous layer of adhesive to the exterior of the inner tube then insert it inside the larger tube. Rotate the inner tube in both directions (about a quarter turn) to distribute the adhesive evenly around the joint. If there is extra, unwanted adhesive, wipe it off quickly with a damp towel.

FIBERGLASS ROUND TUBE

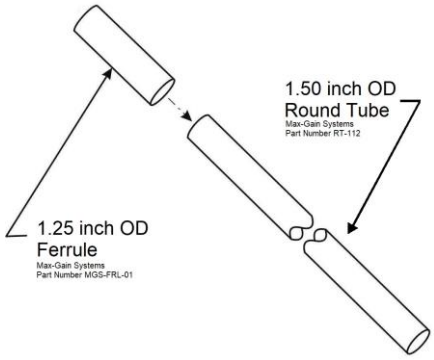
Our fiberglass tube is available in several lengths. 8 foot, 4 foot, and 2 foot.

Most requested layouts

16 foot long, FIXED push pole	18 foot long, FIXED push pole	20 foot long, FIXED push pole
		
16 foot long, Modular push pole	**18 foot long, Modular push pole**	**20 foot long, Modular push pole**
		

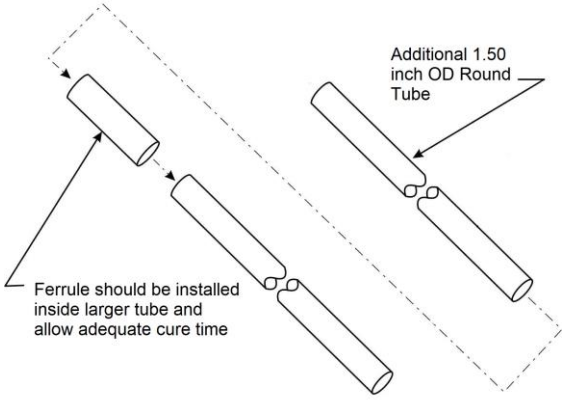
This installation guide is universal for all of the individual component parts

Installing the 1.25 inch OD Ferrule into the first piece of 1.5 inch OD Round tube



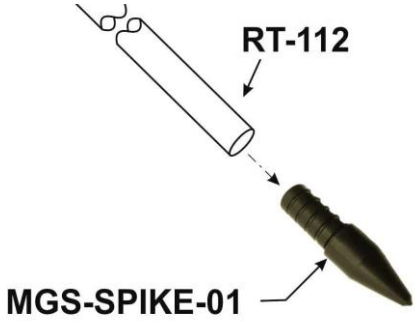
Installation: When gluing two tubes together be sure to spread the adhesive on both the interior of the larger tube and the exterior of the inner tube. To apply adhesive to the interior of the larger tube, pre-mix your epoxy, spread the epoxy on the outside of a smaller diameter dowel and apply a generous layer on the inside of the larger tube. Be sure to apply a generous layer of adhesive to only half of the exterior of the inner tube then insert it inside the larger tube. Rotate the inner tube in both directions (about a quarter turn) to distribute the adhesive evenly around the joint. If there is extra adhesive, wipe it off quickly with a damp towel.

Installing a second 1.5 inch OD Round Tube



Installation: We will now install a second 1.5 inch OD Round Tube onto the previously glued tube set (see above). To apply adhesive to the interior of the larger tube, pre-mix your epoxy, spread the epoxy on the outside of a smaller diameter dowel and apply a generous layer on the inside of the larger tube. Be sure to apply a thin layer of adhesive to the other half of the exterior of the inner tube then insert it inside the larger tube. Adhesive will squeeze itself out from the joint, so be prepared with something to catch the excess (you will be able to reuse what you catch). Rotate the inner tube in both directions (about a quarter turn) to distribute the adhesive evenly around the joint. If there is extra adhesive, wipe it off quickly with a damp towel. Place the newly glued sections down on a flat surface so as the adhesive sets, the push pole, will remain as straight as possible.

SPIKE Installation

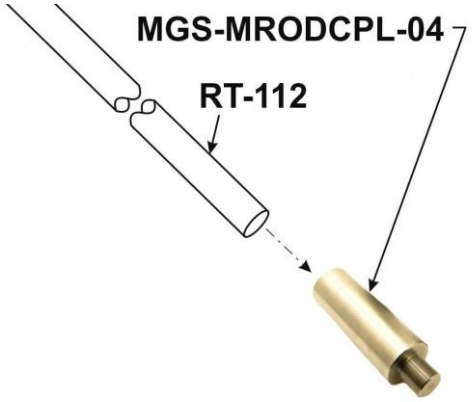


Installation: To apply adhesive to the interior of the larger tube, pre-mix your epoxy, spread the epoxy on the outside of a smaller diameter dowel and apply a generous layer on the inside of the larger tube. Be sure to apply a thin layer of adhesive to ribbed portion of the spike. Insert the spike into the larger 1.5 inch OD Round Tube. If there is extra adhesive, wipe it off quickly with a damp towel. Place the newly glued section of tube and the spike down on a flat surface so as the adhesive sets, the push pole, will remain as straight as possible.

FOOT Installation

Installation: To apply adhesive to the interior of the larger tube, pre-mix your epoxy, spread the epoxy on the outside of a smaller diameter dowel and apply a generous layer on the inside of the larger tube. Be sure to apply a thin layer of adhesive to ribbed portion of the foot that will be inserted into the tube. Insert the spike into the larger 1.5 inch OD Round Tube. If there is extra adhesive, wipe it off quickly with a damp towel. Place the newly glued section of tube and the foot down on a flat surface so as the adhesive sets, the push pole, will remain as straight as possible.

COUPLER Installation (for modular / break down push poles)



Installation: Pre-mix your epoxy, spread a generous layer of the epoxy to the exterior of the larger fiberglass tube, on the outside of a smaller diameter dowel and apply on the inside of the larger tube. Place the stainless steel coupler on the tube. When the stainless steel coupler is fully seated on to the tube, simply twist the stainless steel coupling in either direction one quarter turn to then smear the adhesive around rod. If there is extra adhesive, wipe it off quickly with a damp towel. Place the newly glued section of tube and the foot down on a flat surface so as the adhesive sets, the push pole, will remain as straight as possible. Note that the couplers are slightly larger in diameter than the fiberglass round tube. When the adhesive is setting be sure to prop up the ends of the fiberglass to ensure straightness of your tubes. We had a customer tell us that he used a couple coins to do this easily.

Thank you for your purchase!

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