



Installation Instructions:

INTERNAL HALYARD GROUND SET CAM CLEAT FLAGPOLE SYSTEM

The internal halyard ground set cam cleat system is a sleek look and the security of an internal halyard that has been combined with the simplicity of a rope halyard to make the Cam Cleat Action System internal halyard flagpole an economical alternative to the winch operated system. A cam action cleat, secured behind a locked door, stops the polypropylene rope at any flag height. The halyard runs up the inside of the flagpole from the cam cleat, through truck (pulley/cap assembly) and over a pulley to the outside of the pole where snaphooks, a counter weight and retainer ring are attached. (See details)

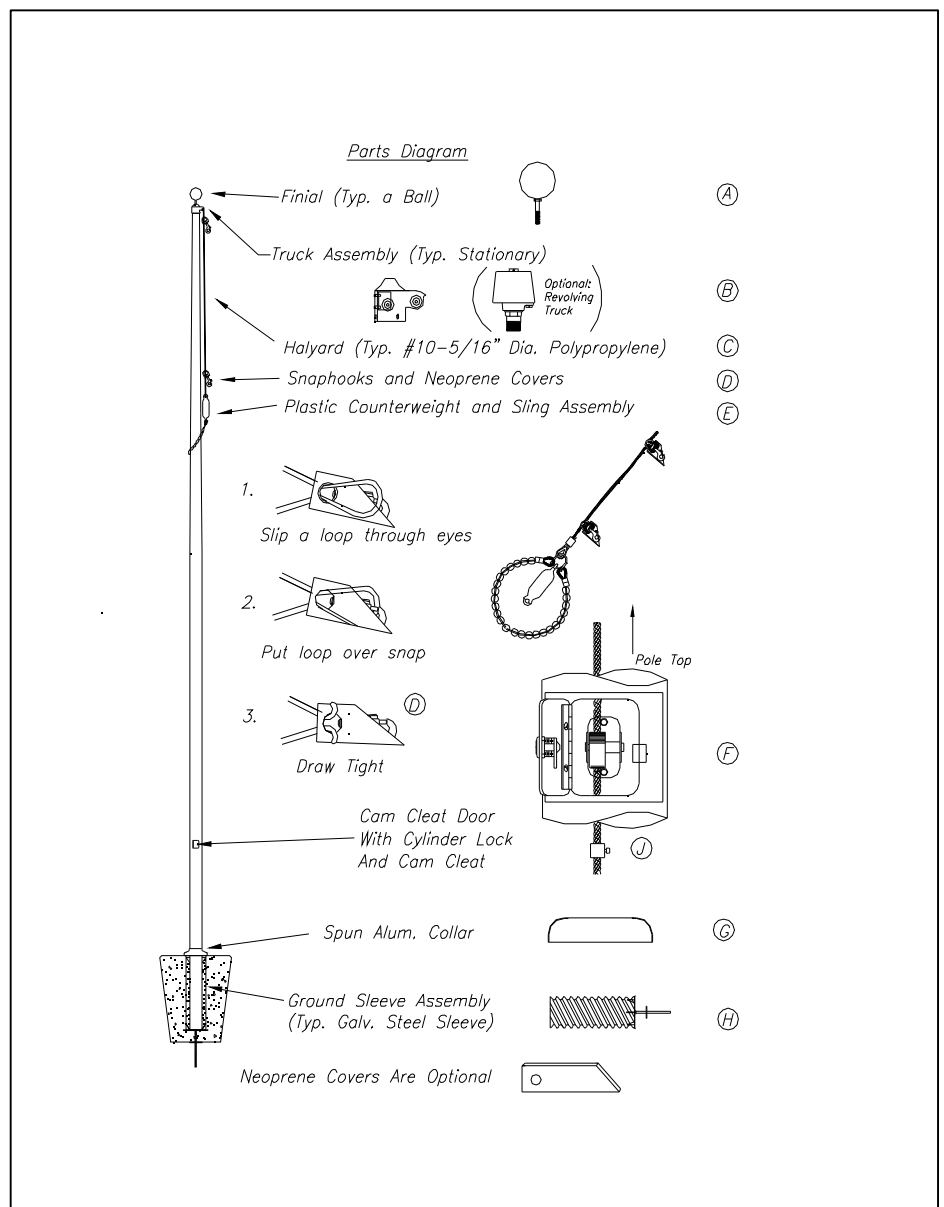


INTERNAL HALYARD GROUND SET CAM CLEAT FLAGPOLE SYSTEM

**FOR QUICK AND PROFESSIONAL INSTALLATION.
READ ALL INSTRUCTIONS BEFORE PROCEEDING.**

Lay all flagpole components out.
If missing a part from the
attached parts diagram, please
call (800) 368-7171 for the
replacement parts.

STEP 1 - Remove all wrapping materials and place unwrapped pole on cribbing or other wood support on ground (preferably in a covered dry area). If Pole is Multi Section, carefully lay sections out in proper order, grouping poles with like match marks. Sections **MUST BE STRAIGHT & LEVEL** while sliding together. Line up match mark numbers, imprinted at each section, for proper fit. Lightly sand away any burrs that may be present on the male section or in the upper section of the joint. A small amount of lubrication (silicone or dish washing liquid – by others) may be applied to the male portion of the joint for easier fitting. Start with the bottom sections and work toward the top. Begin sliding the two sections, rolling the pole by 180° with every 2 to 3 inches to facilitate an easier fit. (If **EXTREME** difficulty is found in fitting the first 6 inches together, pull back apart and cool the male section with ice for several minutes). A sledgehammer and block of wood (to protect the pole from direct impact) may be necessary on larger poles to complete the assembly of joints. American Flagpole suggests the use of an epoxy adhesive for aluminum with poles of 60' length.



STEP 2 - Identify parts and place them along the pole according to the parts diagram.

STEP 3 - Starting with the finial ball (**part A**), screw ball spindle into truck (**part B**). **Do not grip ball to tighten, grip spindle/rod with vise grips and tighten.** Tighten all nuts and set screws. **(Epoxy or loc-tite type product is recommended on all connections, not furnished by American Flagpole).**

STEP 4 - Slide sling assembly (**part E**) around flagpole and leave approximately 2 - 3 feet from top. Take the polypropylene rope (**part C**), remove the Halyard Securing Device (**part J**) for now, and feed it through the outer pulley of the stationary truck (**part B**) and over the centering pulley allowing the rope to be fed down the center of the pole.

STEP 5 - Once the rope is fed down the center of the pole, feed rope through the cam action cleat (**part F**) which should be mounted to plate located inside door (**see F**). Once through this device pull excess rope through and lay it outside the pole for now.

STEP 6 - Mount the truck assembly (**part B**). You will find set screws around the outer wall of this device. Once located, slide truck and ball assembly over the top of the flagpole and fasten the set screws tightly against the flagpole. This should set the truck and keep it from moving. Be careful not to catch the rope between the truck and the pole top.

STEP 7 - On the outside of the flagpole, space and / or adjust the snaphooks and neoprene covers (**part D**) to the proper distance to accommodate your flag size. Please see diagram for snaphook attachment.

STEP 8 - Before standing flagpole, slide the flash collar (**part G**) up from bottom and secure at the location of the access door with tape on underside of flash collar to prevent slipping.

STEP 9 - Stand flagpole into previously installed ground sleeve. (May require crane or backhoe for larger flagpoles. Always choke multiple section poles below lowest joint as a safety precaution).
Caution: When installing, the pole should be assembled as close as possible to the final support point. Professionals experienced in such installations should perform rigging and lifting. During lift keep clear of area and reach of pole path. Do not pass pole overhead. When installing multi-piece flagpoles, arrange the rigging for the lift in such a way that weight of the pole sections is supported from the bottom of the pole so that the flagpole joints are pushed together not pulled apart during the lift. Keep clear of power lines.

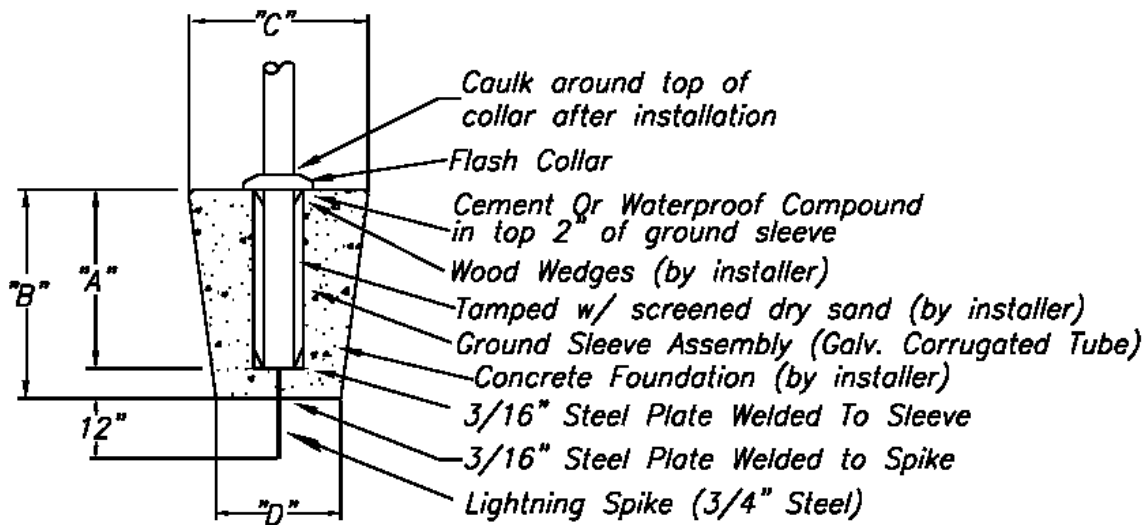
STEP 10 - After inserting flagpole into ground sleeve(corrugated tube), plumb flagpole with wooden wedges (supplied by others). Fill space between ground sleeve and flagpole with screened dry sand. Fill ground sleeve 6" to 8" at a time with sand and tamp around flagpole as you fill. Fill ground sleeve with sand to about 2" from top. Then cap off with waterproof cement.

STEP 11 - After waterproof cement/silicone has dried, slide flash collar (if provided) (**part G**) into position and caulk with matching color silicone around flagpole and flash collar to seal from moisture.

STEP 12 - Halyard Operation: Pull halyard to the right to clear cam operation. Carefully pull or release halyard to raise or lower the flag to the desired height. To secure the halyard, reach into the front on the cam, and lift the cam up. Pull halyard to the left, behind the cam. Release cam, halyard will engage the cleat and hold. Before flag is raised to the top of flagpole, raise counter weight assembly to approximately two feet from top of cam cleat access door, and install the Halyard Securing Device (**part J**) on the rope assembly, just below the cam cleat assembly, and tighten thumb screw to secure. Excess halyard should be pushed back through the cam cleat door for storage.

Exposed Height	"A"	"B"	"C"	"D"
20'-0"	2'-0"	2'-6"	30"	24"
25'-0"	2'-6"	3'-0"	36"	24"
30'-0"	3'-0"	3'-6"	36"	24"
35'-0"	3'-6"	4'-0"	36"	30"
40'-0"	4'-0"	4'-6"	45"	36"
45'-0"	4'-6"	5'-0"	45"	36"
50'-0"	5'-0"	5'-8"	50"	42"
55'-0"	5'-6"	6'-0"	50"	42"
60'-0"	6'-0"	6'-6"	60"	48"
65'-0"	6'-6"	7'-0"	60"	48"
70'-0"	7'-0"	7'-6"	60"	48"
75'-0"	7'-6"	8'-0"	60"	48"
80'-0"	8'-0"	8'-6"	72"	48"

Suggested minimums are based on recommendations found in the Metal Flagpole Manual published by NAAMM (The National Association of Architectural Metal Manufacturers, printed version 1980). Foundation size depends on local soil conditions and building codes. Dimensions "C" and "D" are the recommended minimums for use in good, firm, dry soil only. When dealing with soil conditions that are other than optimum (ie wet, unstable, in a frost area, etc.) consult a foundation engineer for a design appropriate to the location and loads acting on the flagpole.



Installation Method For PVC GroundSleeves

