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## Aluminum Conical Tapered Flagpole Installation

### **Internal Stainless Steel Winch Systems**

1. Dig foundation as detailed in the Ground Sleeve Installation Instructions listed below. Set sleeve into hole so that top of tube is 2" above grade. Plumb sleeve vertically and brace so that sleeve will not move during pour. Pour concrete and trowel to desired finish. Keep inside of sleeve dry and free of concrete.
2. Lay shaft on sawhorses, and remove wrappings from top and bottom of shaft, and from around the hand hole. If this is a multi-piece pole, carefully read and follow the assembly instruction on the reverse side. NOTE: A multi-piece shaft must be assembled completely before the installation of the truck and cable assembly. If there is any suspicion of damage to the finish, completely unwrap and inspect all shaft sections prior to assembly. Rewrap to protect the finish during assembly and installation.
3. Locate the truck and pre-strung cable assembly in the parks box. Remove the two screws holding the truck cover to separate it from the body. By hand only, screw threaded ball-stem into the top of the truck. Use loc-tite or similar stud cement if available. Do not let the stem protrude more than ¼" inside the cover. Caution: Excess stem inside may cause the cable to wear prematurely or break. Use a wrench to securely tighten down the jam nut against the truck. Using the two screws, reassemble the truck cover to the body, being careful not to pinch the cable. Uncoil the cable leg extending from the spindle. Fish that cable down inside the shaft from the top. Screw the truck spindle into the treaded top of the shaft, using a pipe-wrench to tighten.
4. To connect the cable to the winch, first remove the bolt in front of the winch. Rotate the mounting plate 1/4 turn counter-clockwise to expose the barrel of the winch. Bring the cable end down behind, under, and up in front of the winch. Lay the copper cable stop on the end into the slot in the barrel, pointing upwards. Making certain that the cable stop is not cocked, tighten the cap-screw to hold the stop in place. (Note: the cap screw is a pan head ¼-20x1/4". A spare is included in the spare parts bag. Use of a longer screw will cause the winch to slip)
5. Rotate the winch ¼ turn clockwise, back to the original position with the slot in the mounting plate over the threaded bolt hole. Insert the bolt and tighten. Insert the crank handle into the hole in the center of the winch. Slowly crank CLOCKWISE only enough to take up the slack in the cable.
6. Uncoil the outside leg of the cable and stretch out along side of the shaft. With the inside swivel pulled up against the truck spindle, the yoke connecting the cable to the flag arrangement should fall just above the top of the access door. If the outside cable end falls too low, it may be necessary to shorten the cable.
7. Undo the quick-link attaching the flag arrangement to the counterweight. Undo the quick link attached to the retainer ring. Releasing one end, Wrap the retainer ring around the shaft and reattach to the bottom of the counterweight. Temporarily tape the counterweight and cable assembly to the shaft close to the access door. Slip the flash collar up from the bottom end. Tape that in place above the tarred portion of the shaft.
8. Using a nylon sling, carefully pick up the shaft. Orient the access door in the desired direction, and set the shaft vertically into the foundation sleeve. If the shaft is a multi-piece shaft, a nylon choker must be used to insure the sections won't separate when lifted. Plumb the shaft upright. Insert wood wedges (not furnished) between the shaft and the sleeve to keep the shaft in place and plumb. Pour in and tamp firmly dry sand between the shaft and the sleeve, making certain it is well compacted. Leave a 1"-2" void at the top for the sealer (not provided). Remove the wood wedges. Fill the void with waterproof cement or any sealant. Slip the collar down on the shaft. Caulk the collar into place at the concrete and shaft joints.
9. Attach the flag to the flag snaps on the flag arrangement. Insert the crank handle into the hole of the winch and crank the flag to peak. With the flag at peak, check to make for certain that the inside swivel is still clear of the winch. If swivel is touching the winch, crank cable all the way down. Cut off yoke at the end of the outside leg and shorten the cable. Re-attach a yoke to the cable end using spare parts provided. Crank the flag to peak and re-check winch and swivel clearance.
10. Remove all remaining paper wrapping. With everything is in order, remove the crank, lock the access door in place, locate keys (2), crank(1), spare parts bag, spray-lube(1), and maintenance/operation manual.

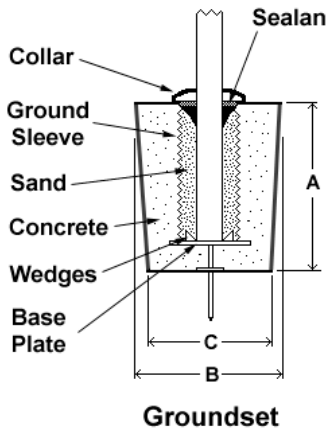
## Ground mounted installation

### Ground Mount

The embedded, or Groundset, mount is the method of choice for mounting aluminum flagpoles at grade. Flagpole shafts so mounted have a higher wind speed rating than the same shafts base-plate mounted.

### Specifications:

**2.3 A FOUNDATION TUBE:** Fabricated from 16 ga. galvanized steel, with a steel base plate whose square dimension is at least the internal diameter of the sleeve plus 4". A setting plate 6" square shall be securely welded to the ground spike at least 6" below the base plate. The ground spike shall be 3/4" diameter, not less than 18" long.



**Groundset**

## Ground Sleeve Specifications

### Shaft Foundation Dimensions

HEIGHT	BUTT DIAMETER	SLEEVE DIAMETER	DEPTH A	DEPTH B	DEPTH C
20'	4"	6"	3' 6"	30"	24"
20'	5"	8"	3' 6"	30"	24"
25'	5"	8"	3' 6"	30"	24"
25'	5.5" - 6"	10"	3' 6"	30"	24"
30'	5"	8"	3' 6"	30"	24"
30'	6"	10"	3' 6"	30"	24"
35'	5"	8"	4' 0"	36"	30"
35'	6" - 7"	10"	4' 0"	36"	30"
40'	7"	10"	4' 6"	42"	36"
40'	8"	12"	4' 6"	42"	36"
45'	8"	12"	5' 0"	48"	42"
50'	8"	12"	5' 6"	48"	42"
50'	10"	15"	5' 6"	48"	42"
60'	10" - 12"	15"	6' 10"	48"	42"
70'	10" - 12"	15"	8' 0"	60"	48"
80'	12"	15"	9' 0"	60"	48"

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