Installation Instructions for the SMP2 Traffic Signal APS Pedestrian Button Station

Step	Photo	Description
1	Ja!	Using the base plate for a pattern, mark, drill and install four, ½"x 6" swaged or other style of expanding anchor bolts into a minimum of 6" thick concrete. Allow 1-3/4" of the anchor bolts to be exposed above the concrete surface. Where foundations are used, use a 6-1/2" bolt circle pattern for the anchor bolts.
2		Using a small hand level, level the surface next to the anchor bolts by placing flat washers over the anchor bolts on the lower concrete areas.
3	6	Place the base plate over the anchor bolts with the tabs of the plate facing up. Place flat washers with 9/16" hole, 1-3/8" outside diameter and 1/10" thickness over the anchor bolts. A secondary standard sized ½" machine washer may also be installed. Secure the nuts but do not over-tighten.
4	1	After tightening the nuts, use a hand level to double check that the base plate is level in all directions.
5	4	Temporarily place the SMP2 pole onto the base plate and thread the bolts in two or three turns. The unit will be removed again shortly so do not tighten the bolts at this time.
6		Align the APS button on the pole vertically at 42 inches to center of the button from the concrete below. Also, align the APS assembly to the proper radial point on the pole. Once the button is in the proper position, mark the mounting holes and wire access hole in the pole using a sharp awl or other marking device.
7		Drill the appropriate holes for the cable and mounting bolts.





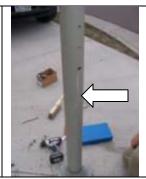
An expanding aluminum rivet nut with $\frac{1}{2}$ – 20 threads will be installed into the SMP2 pole for added support for the mounting bolts. Use the extended shoulder style as shown in the photo.

9



Using the expanding rivet nut tool, install the rivet nuts into the pole. See rivet nut manufacturer for proper sized hole as the rivet nuts must fit tightly in the holes in order to hold properly.

10



Prior to removing the SMP2 pole, insert a pulling string through the cable hole. An attached small nut or bolt helps pull the string down into the pole.

11



Remove base bolts and lay down the SMP2 pole. Find the end of the pulling string and attach cable to be pulled into the pole.

12



Set SMP2 pole back into its permanent position on the base plate. **Coat the base plate bolts with a high quality anti-seize product.** Have a towel handy to wipe off any excess anti-seize material.

13



Insert all of the base bolts with a lock washer and hand-tighten. Verify that bolts are 3/8" x 1" long and that both the bolt and lock washer are stainless steel.

14



Tighten the base bolts in a 12 o'clock, 6 o'clock, 3 o'clock and 9 o'clock pattern. Failure to use this pattern may strip the base plate threads or make it difficult to tighten the bolts.



Permanently install the APS button onto the SMP2 pole assembly. Wire and seal per manufacturer specifications.



Completed SMP2 Installation

The SMP2 pedestrian button station should give years of low maintenance service. It's ability to be mounted directly to a sidewalk allows for simplified installation of APS equipment where other systems requiring foundations may be difficult to match sidewalk grades or meet ADA requirements. The SMP2 is also easily replaced during any season throughout the year.

Available through:



Tip Indications – 22480 County Rd 75 – St. Cloud, MN 56301 320-250-3744 www.tipindications.com