Reaction Rod (800 Base 147) FG 300 Base
Installation Procedure

Overview:
The Reaction Rod, 800Base147 will come to you as an un-assembled kit. You will receive a cored out Fluorescent Yellow Green Base and as single 9” long reaction rod. Assembly is easy.

The kit will contain:
1 cored out Florescent Yellow Green Base
1 9” Reaction Rod
You will need to supply a hammer

Standard FG 300 Base Installation Procedures:
Follow the standard installation procedures for the FG 300 base system as outlined below. Not all mounting systems are approved for use with the reaction rod system. Permanent or high strength mounting systems are required. *Temporary systems do not work and are not recommended.*

A) **Installation Using 2-Part Epoxy**

1) Adhesive will adhere well to most clean, dry and well unified surfaces. Ideal application temperature is 50 degrees to 100 degrees F. All surfaces must be free of dust, dirt, oil and moisture.

2) Wipe the spot on which the post will be placed.

3) Mix equal parts A and B of standard road marker epoxy and apply evenly 1/8 inch thick to the FG 300 base.

4) Place the FG 300 base onto the roadway and **apply firm downward pressure** for five seconds.

5) After application, bond strength increases. Ultimate strength is achieved after 72 hours.

6) Posts should be protected from traffic for a minimum of one (1) hour after installation.

**Limitations of Adhesive System**

1) Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure develops better adhesive contact and thus improves bond strength.

2) Moisture on roadway surfaces will inhibit bonding of the adhesive.

3) Insufficient pressure will not allow the adhesive to bond properly.

**Placing the post incorrectly could result in adhesive failure!**
B) FG 300 Anchor Bolts (Recommended Mount System)

1) Using a standard hammer drill and a 3/8" SDS bit, drill holes through the in each base, approximately 4" deep into asphalt pavements and 2 1/2" into concrete pavements.

2) Insert proper length anchor bolt through the holes in the base. Using an impact wrench, drill the bolt into the hole in the pavement. Begin tightening the bolt by applying slight downward pressure when engaging the first few threads.

3) Continue tightening until the head is firmly seated; do not over-tighten the bolt.

C) Banana Base Portable Assembly

1) The Banana Base will come pre-assembled from the factory except for the reaction rod.

Installation of the Reaction Rod:

The installation of the reaction rod requires no glue or extra tools, just the base, the reaction rod and a hammer. The base has been cored slightly smaller than the reaction rod diameter. The ribs on the rod allow for the rod to compress and create a friction fitting. The rod can be removed, but not easily.

Step 1) Align the rod over the opening of the base. It should not slide into the hole.
Step 2) Using the hammer, tap the rod into place; the rod will conform to the hole.
Step 3) Make sure that the rod bottomed out; the rod will enter the base approximately 1" in depth.
Step 4) Install sign assembly in base and install nylon locking pins

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