STEP BY STEP  FOR ALL LIGHTHOUSE BOLLARDS

Remove head unit
- Use 5/32” hex bit for tamper-resistant screws to unscrew 1/4"-20 x 3/4” tamper-resistant flat head cap screws and remove head unit.

NOTE: Retain all pieces for use in later steps.

Remove lamp & top plate
- Remove lamp.
- Use 1/4” wrench to unscrew and remove #8-32 x 1/2” thread-cutting hex washer head screws (c) and #8 external tooth washers (b).
- Remove top plate.

NOTE: Retain all pieces for use in later steps.

Remove body & mounting unit
- Use 3/4” socket and socket wrench to unscrew and remove 1/2”-13 nut and 1/2” washer from each vertical support.

NOTE: Retain all pieces for use in later steps.
Pour concrete footer
- Mix and pour concrete footer according to concrete manufacturer’s instructions.
- A sufficient footer size depends on frost and other conditions to be determined by the installer. A minimum of a 13” diameter x 20” deep footer is recommended.

Insert J-bolt anchors
- Insert 1/2”-13 x 18” galvanized steel J-bolt anchors (g) into concrete.
- Use template (included) to position J-bolt anchors in proper locations. Tops of J-bolt anchors must be a minimum of 1-1/4” above concrete surface.
- Allow concrete to set completely, in accordance with concrete manufacturer’s instructions, before moving to step 6.

Attach base plate to J-bolt anchors
- Slide base plate and vertical supports over J-bolt anchors and lower to concrete level.
- Slide 1/2” washer (f), then thread 1/2”-13 nut (e) onto each J-bolt anchor and tighten with 3/4” socket and socket wrench until snug.
**Position & attach body & mounting unit**
- Slide body and mounting unit over base plate and vertical supports.
- Slide 1/2" external tooth lock washer (d), then thread 1/2"-13 nut (e) onto each vertical support.
- Use 3/4" wrench to tighten until snug.

**Attach top plate & replace lamp**
- Position top plate over mounting unit so holes are aligned.
- Slide #8 external tooth washer (b) onto each #8-32 x 1/2" thread-cutting hex washer head screw (c) and thread through holes in top plate.
- Use 1/4" wrench to tighten screws until snug.
- Replace lamp.

**Position & attach head unit**
- Position head unit on top of body & mounting unit so holes are aligned.
- Thread 1/4"-20 x 3/4" tamper-resistant flat head cap screw (a) into each hole and use 5/32" hex bit for tamper-resistant screws to tighten until snug.