

General

This sheet is intended to provide guidance on the bolting and grouting requirements for the LPB. Additional information regarding LPB installation can be found in the full Installation Manual. A copy of the manual can be obtained from the supplier or by visiting our website - www.lightpolebase.com

Installation Hardware Bill of Materials - Included in this Bag

- 4 - 3/4" diameter x 9" long HDG threaded rod (ASTM F1554 Grade 55)
- 4 - 3" x 3" x 5/16" thick HDG bearing plate (ASTM A36)
- 12 - 3/4" diameter HDG heavy hex nuts (ASTM A194 Grade 2H)
- 8 - 3/4" HDG hardened flat washer (ASTM F436)

LPB Bolting Diagram

Figure 1 below, is a recommended bolting diagram that should be followed in the absence of guidance provided by the light pole manufacturer. Any guidance or requirements provided by the light pole manufacturer shall supersede the diagram except as stated in Note 1 below.

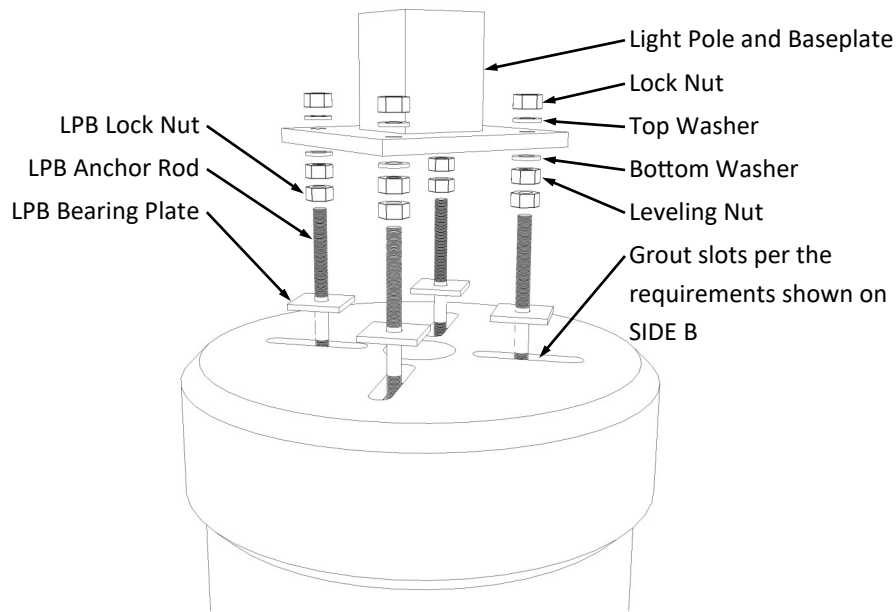


Figure 1: Recommended LPB Bolting Diagram

Note 1: The LPB Lock Nut, LPB Anchor Rod, and LPB Bearing Plate shall be installed as shown and as noted on SIDE B of this sheet, without exception.

Setting Up the Anchoring Rods and Grouting

1. Install one threaded rod into the anchoring nut at the bottom of each slot located along the top of the LPB.
2. The threaded rod should be oriented with the 1.5" threaded end installed in the anchoring nut and the 5" threaded end extending out of the top of the LPB.
3. Using a template, slide the threaded rods and anchoring nut along the slot to achieve the required bolt circle diameter.
4. Once the threaded rods are in the correct location, continue tightening the rod until it seats against the bottom of the slot. This will hold the threaded rod in place.
5. Place one bearing washer and one nut onto each threaded rod. Tighten the nut against the bearing washer using a standard crescent wrench. The nut should be installed hand tight.
6. Pour fluid grout into each slot. Be sure to fill each slot completely and trowel off any excess. Refer to the grout specification below for additional information.

Installing the Light Pole

1. The light pole and baseplate should be installed using the Recommended Bolting Diagram, shown on SIDE A of this sheet, in the absence of guidance provided by the light pole manufacturer.
2. Ensure that the light pole is installed plumb using leveling nuts and that the bottom of the lowest leveling nut is in contact with the top of the LPB Lock Nut. Leaving a space, or having a pole that is out of plumb, can create excess stress on the anchor rods.
3. The remaining portions of the light pole and fixtures should be installed per the manufacturer's recommendations.

Grouting Specification

LPB requires the use of high-strength, non-shrink grout when filling the anchoring slots. The grout should have a min. compressive strength of 8,000 psi at 28-days when mixed to a fluid consistency. One option for use is Quickcrete's Non-Shrink Precision Grout mix. Other grouts may be used provided they meet the stated requirements. All grout used should be mixed and installed per the specific manufacturer's recommendations. The grout mix and water quantities shown below are based upon the mixing recommendations for Quickcrete's Non-Shrink Precision Grout (includes 5% waste):

# of LPBs	# of Slots (4 per LPB)	Required Grout Mix (lb) (1.85 lb per slot)	Required Water (oz) (6.45 oz per slot)
1	4	7.4	25.8