Light Pole Systems, Inc.
1057 E Imperial Hwy. #155
Placentia CA, 92870
(714) 786-8983 www.LightPoleSystems.com

Anchor Bolt Adapter (ABA)

Description and Application
The Anchor Bolt Adapter (typically a set of 4 pieces) corrects the anchor bolt alignment problems (ABA.75:4.4 inches max, ABA1:5 inches max). It is used when the existing anchor bolts do not line up with (match) the bolt holes in the light pole base plate. The anchor bolt adapters are threaded onto the existing anchor bolts and can adjust the bolt circle diameter. Then the pole base plate is bolted to the Anchor Bolt Adapter.

Analysis and Certification
The engineering free-body force diagram of the Anchor Bolt Adapter shows static equilibrium without rotation. The rotation force is translated to anchor bolt pull-out tension. And the tension clamping force (from the anchor bolts) of the concrete pedestal and the pole base plate prevents rotation. Therefore: The Anchor Bolt Adapter Set (ABA) is certified by this Engineer for:
3/4” Anchor Bolt Adapter (ABA.75): 25' pole, 150 lbs. fixture weight, 100 mph, 11 EPA max using the center hole and 5 EPA max using the outside hole.
1” Anchor Bolt Adapter (ABA1): 40' pole, 550 lbs. fixture weight, 100 mph, 12 EPA max using the center hole and 5 EPA max using the outside hole.

Sincerely,

Paul W. Gregory, P.E. (C30450)
4507 Delancy Dr.
Yorba Linda, Ca. 92886
The Anchor Bolt Adapter 1" allows an increase or decrease of a bolt circle by up to 5", and movement of bolt square by 2.5". For instructions, see Installation Guide.

With all blocks in this configuration, the bolt circle is decreased by up to 5".

Pole may rotate slightly based on your exact needed adjustment and pole base plate.

With all blocks in this configuration, the bolt circle is increased by up to 2.5".

Max EPA in 100MPH windzone
550lbs Fixture Weight

<table>
<thead>
<tr>
<th>Pole Height</th>
<th>ABA1 Center Hole</th>
<th>ABA1 Outside Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>&gt; 20</td>
<td>12</td>
</tr>
<tr>
<td>20</td>
<td>&gt; 20</td>
<td>9</td>
</tr>
<tr>
<td>25</td>
<td>20</td>
<td>7</td>
</tr>
<tr>
<td>30</td>
<td>15</td>
<td>6</td>
</tr>
<tr>
<td>35</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>40</td>
<td>12</td>
<td>5</td>
</tr>
</tbody>
</table>

ABA1 is sold in sets of 4 blocks.

ABA1: 40' MAX POLE, 550 LBS.MAX FIXTURE WEIGHT, 100MPH MAX: EPA 12 USING CENTER HOLE. EPA 5 USING OUTSIDE HOLE.
The Anchor Bolt Adapter 1"-.75" allows an increase or decrease of a bolt circle by up to 5", and movement of bolt square by 2.5", and allow a 3/4" base plate to bolt to 1" anchor bolts. For instructions, see Installation Guide. With all blocks in this configuration, the bolt circle is decreased by up to 2.5". Pole may rotate slightly based on your exact needed adjustment and pole base plate.

With all blocks in this configuration, the bolt circle is increased by up to 5".

ABA1-.75 is sold in sets of 4 blocks.

Max EPA in 100MPH windzone
150lbs Fixture Weight

<table>
<thead>
<tr>
<th>Pole Height</th>
<th>ABA.75 Center Hole</th>
<th>ABA.75 Outside Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>17</td>
<td>7</td>
</tr>
<tr>
<td>20</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>25</td>
<td>11</td>
<td>5</td>
</tr>
</tbody>
</table>

UNLESS OTHERWISE SPECIFIED:

- DIMENSIONS ARE IN INCHES
- TOLERANCES: FRACTIONAL
- ANGULAR MACH ± BEND ±
- TWO PLACE DECIMAL ± .005
- THREE PLACE DECIMALS ± .000
- INTERPRET GEOMETRIC TOLERANCING PER:
- MATERIAL: 1018 STEEL
- DRAWN:
- CHECKED:
- ENG APPR.
- MFG APPR.
- Q.A.
- COMMENTS:

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PROPERTY AND CONFIDENTIAL

TITLE:
ANCHOR BOLT ADAPTER, 1"-.75"

PART #: ABA1-.75

SIZE: A
REV: 2.1
SCALE: 1:2
WEIGHT: 16lbs.

ABBREVIATIONS:

HOT DIP GALVANIZED
DO NOT SCALE DRAWING
The Anchor Bolt Adapter 3/4" allows an increase or decrease of a bolt circle by up to 4.4", and movement of bolt square by 2.2". For instructions, see Installation Guide.

With all blocks in this configuration, the bolt circle is decreased by up to 4.4".

(2) 3/4-2.00 Hardened Washer

3/4-10 UNC Galvanized Nut

With all blocks in this configuration, the bolt circle is decreased by up to 2.2".

3/4-10 UNC Thread

With all blocks in this configuration, the bolt circle is increased by up to 2.2".

3/4-10 UNC Galvanized Stud

ABA.75 is sold in sets of 4 blocks.

ABA.75: 25' MAX POLE, 150 LBS.MAX FIXTURE WEIGHT, 100MPH MAX: EPA 11 USING CENTER HOLE. EPA 5 USING OUTSIDE HOLE.

Max EPA in 100MPH windzone

<table>
<thead>
<tr>
<th>Pole Height</th>
<th>ABA.75 Center Hole</th>
<th>ABA.75 Outside Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>17</td>
<td>7</td>
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<td>5</td>
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<td>25</td>
<td>11</td>
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</tr>
</tbody>
</table>

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL:
ANGLES:
MACH ± BEND ±
TWO PLACE DECIMAL ± .005
THREE PLACE DECIMALS ± .005
INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL:
1018 STEEL
FINISH:
HOT DIP GALVANIZED
DO NOT SCALE DRAWING

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DRAWN: EB
CHECKED: ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

UNLESS OTHERWISE SPECIFIED:

NAME | DATE |
-----|------|
EB   | 08/31/17 |

PART#: ABA.75

TITILE: ANCHOR BOLT ADAPTER, 3/4"

SIZE: A

DWG. NO.: 2.1

REV: 10/31/17

SCALE: 1:2
WEIGHT: 10lbs.