Round Security Bar

Field Installation Manual
UPE-3, UPE-6, UPE-M3, UPE-M6, PN, CE and FPE Series Enclosures
Effective: October, 2013
Safety Notes

Review the drawings and illustrations contained in this document before proceeding. If there are any questions regarding the safe installation or operation of the system, contact Alpha Technologies or the nearest Alpha representative. Save this document for future reference.

To reduce the risk of injury or death and to ensure the continued safe operation of this product, the following symbols have been placed throughout this manual. Where these symbols appear, use extra care and attention.

**WARNING! ELECTRICAL HAZARD**

ELECTRICAL HAZARD WARNING provides electrical safety information to PREVENT INJURY OR DEATH to the technician or user.

**WARNING! FUMES HAZARD**

FUMES HAZARD WARNING provides fumes safety information to PREVENT INJURY OR DEATH to the technician or user.

**WARNING! FIRE HAZARD**

FIRE HAZARD WARNING provides flammability safety information to PREVENT INJURY OR DEATH to the technician or user.

There may be multiple warnings associated with the call out. Example:

**WARNING! ELECTRICAL & FIRE HAZARD**

This WARNING provides safety information for both Electrical AND Fire Hazards

**CAUTION!**

CAUTION provides safety information intended to PREVENT DAMAGE to material or equipment.

**NOTE:**

NOTE provides additional information to help complete a specific task or procedure.

**ATTENTION:**

ATTENTION provides specific regulatory/code requirements that may affect the placement of equipment and /or installation procedures.

The following sections contain important safety information that must be followed during the installation and maintenance of the equipment and batteries. Read all of the instructions before installing or operating the equipment, and save this manual for future reference.
UPE-3, UPE-6, UPE-M3, UPE-M6, PN, CE and FPE Series Enclosures

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Effective Date: October, 2013
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NOTE:
Photographs contained in this manual are for illustrative purposes only. These photographs may not match this installation.

NOTE:
Operator is cautioned to review the drawings and illustrations contained in this manual before proceeding. If there are questions regarding the safe operation of this powering system, please contact Alpha Technologies or the nearest Alpha representative.

NOTE:
Alpha shall not be held liable for any damage or injury involving its enclosures, power supplies, generators, batteries, or other hardware if used or operated in any manner or subject to any condition not consistent with its intended purpose, or is installed or operated in an unapproved manner, or improperly maintained.

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1-800-863-3364
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Round Security Bar Safety Notes

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To reduce the risk of injury or death, and to ensure the continued safe operation of this product, the following symbols have been placed throughout this manual. Where these symbols appear, use extra care and attention.

**WARNING! ELECTRICAL HAZARD**

Electrical shock can KILL. Disconnect and remove or protect all electrical equipment within the enclosure before drilling into the enclosure.

**WARNING! FIRE HAZARD**

CE Model Enclosures have integrated gas lines near the enclosure door jam. Turn off the gas before installing the enclosure and ensure all drilling locations will not damage the gas lines before proceeding.

**CAUTION!**

Drilling swarf can cause laceration and puncture wounds to eyes and skin. NEVER remove drilling swarf with bare hands. Always wear safety glasses and gloves, and use a vacuum cleaner or brush to remove swarf from within the enclosure.
1.0 Introduction

Each security bar kit contains the parts and accessories needed to secure one enclosure door. If the enclosure has both a front and back door, it will require two kits, with exception of the FPE.

1.1 Parts List

<table>
<thead>
<tr>
<th>Enclosure</th>
<th>Color</th>
<th>Alpha Part Number</th>
<th># of Required Kits</th>
<th>Kit Components Description (Qty)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPE</td>
<td>Seafoam Green</td>
<td>745-847-20</td>
<td>1</td>
<td>• Lock Bracket (2)</td>
</tr>
<tr>
<td></td>
<td>Gray</td>
<td>745-847-21</td>
<td></td>
<td>• Side Bracket (4)</td>
</tr>
<tr>
<td>PN</td>
<td>Seafoam Green</td>
<td>745-847-20</td>
<td>2</td>
<td>• Security Bar (2)</td>
</tr>
<tr>
<td></td>
<td>Gray</td>
<td>745-847-21</td>
<td></td>
<td>• Lock Guard (2)</td>
</tr>
<tr>
<td>CE</td>
<td>Seafoam Green</td>
<td>745-847-20</td>
<td>2</td>
<td>• Carriage Bolt 1/4&quot;-20X3/4&quot; (12)</td>
</tr>
<tr>
<td></td>
<td>Gray</td>
<td>745-847-21</td>
<td></td>
<td>• Lock Washer 1/4&quot; (12)</td>
</tr>
<tr>
<td>FPE</td>
<td>Seafoam Green</td>
<td>745-847-22</td>
<td>1</td>
<td>• Flat Washer 1/4&quot; (12)</td>
</tr>
<tr>
<td></td>
<td>Gray</td>
<td>745-847-23</td>
<td></td>
<td>• Hex Nut 1/4&quot;-20 (12)</td>
</tr>
<tr>
<td></td>
<td>Pine Green</td>
<td>745-847-24</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>White</td>
<td>745-847-25</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 1-1, Enclosure Part List and Component Descriptions

1.2 Required Tools

<table>
<thead>
<tr>
<th>Installation tools:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape measure</td>
</tr>
<tr>
<td>Masking tape</td>
</tr>
<tr>
<td>1/2&quot; drive hand drill</td>
</tr>
<tr>
<td>Center punch</td>
</tr>
<tr>
<td>7/16&quot; socket and socket wrench</td>
</tr>
<tr>
<td>Size &quot;K&quot; (9/32&quot;) drill bit</td>
</tr>
<tr>
<td>4 foot level</td>
</tr>
<tr>
<td>Pencil</td>
</tr>
<tr>
<td>Utility knife</td>
</tr>
<tr>
<td>Vacuum to remove metal shavings from enclosure interior</td>
</tr>
</tbody>
</table>

Table 1-2, Installation Tools

In addition:

To secure the enclosure, each bar requires a security lock. Each user-supplied lock must meet the following dimensions:

![Security Lock Dimensions](image)

Where:

\[
\begin{align*}
A &= 5/16" \\
B &= 3/4" \\
C &= 2 1/2"
\end{align*}
\]
2.0 Installation

This procedure applies to each of the supported enclosures. Refer to Section 2.1 Dimensioned Enclosure Drawings for specific information pertaining to the enclosure onto which the kit(s) will be installed.

All enclosures require installation of both side brackets and lock brackets. The side brackets hold the security bar, and the lock brackets hold the security lock (refer to Figures 2-3 and Figure 2-4).

**WARNING! FIRE HAZARD**

A gas line runs behind the door jamb on the 5K generator enclosure (CE Series). Turn off the gas prior to installing the security bar. Be careful not to puncture or damage the line. Upon completion of the installation procedure, turn gas on and perform a leak test before leaving the site.

1. Use a 4-ft level to mark the front of the enclosure at the height indicated for the enclosure (see Fig. 2-1).
2. Measure from the sides and mark the holes with a center punch. These will be the top holes used by the side brackets.
3. Remove the door.
4. Place cardboard or a similar material behind the door jamb to protect the electronic equipment from the metal shavings created while drilling. Use a vacuum cleaner to remove the shavings when drilling is complete.
5. Drill the holes using a 9/32" drill bit.

**NOTE:**

Where necessary, use the utility knife to trim and remove insulation from inside the door.

6. Line up the top hole of the side bracket with the hole drilled in the enclosure in step 5. The side bracket provides a template to accurately mark the bracket’s bottom hole locations.
7. Mark the bottom holes with the center punch.
8. Drill the bottom holes of the side brackets using a 9/32" drill bit.
9. On the door removed in step 3, measure and mark the top hole locations for the lock brackets and drill using a 9/32" drill bit.
10. Line up the top hole of the lock bracket with the hole drilled in the door in step 9. The lock bracket acts as a template.
11. Mark the locations of the bottom holes with the center punch and using a 9/32" drill bit, drill the bottom holes.
2.0 Installation

12. Use the hardware provided to mount the side brackets and lock brackets to the enclosure and to the door.

![Side Bracket Assembly](image)

Fig. 2-3, Side Bracket Assembly (enclosure door/sides removed for clarity)

![Lock Bracket Assembly](image)

Fig. 2-4, Lock Bracket Assembly

13. To secure, slide lock guard over bracket, insert lock into guard, slide bar through the opening and close lock.

![Lock Shroud Assembly](image)

Fig. 2-5, Installation of the Lock Shroud on the Security Bar
2.0 Installation

2.1 Dimensioned Enclosure Drawings

The dimensioned enclosure drawings in this section provide specific hole placement locations for the Security Bar bracket mounting hardware.

2.1.1 CE-3G

**WARNING! FIRE HAZARD**

CE Model Enclosures have integrated gas lines near the enclosure door jam. Turn off the gas before installing the enclosure and ensure all drilling locations will not damage the gas lines before proceeding.

---

![CE-3G Enclosure Hole Locations](image)

---

All dimensions in inches.
2.1 Dimensioned Enclosure Drawings, continued

2.1.2 CE-3X2

WARNING! FIRE HAZARD

CE Model Enclosures have integrated gas lines near the enclosure door jam. Turn off the gas before installing the enclosure and ensure all drilling locations will not damage the gas lines before proceeding.

Fig. 2-7, CE-3X2 Enclosure Hole Locations

All dimensions in inches.
CE Model Enclosures have integrated gas lines near the enclosure door jam. Turn off the gas before installing the enclosure and ensure all drilling locations will not damage the gas lines before proceeding.

**WARNING! FIRE HAZARD**

All dimensions in inches.
2.0 Installation

2.1 Dimensioned Enclosure Drawings, continued

2.1.4 CE-9X2

WARNING! FIRE HAZARD

CE Model Enclosures have integrated gas lines near the enclosure door jam. Turn off the gas before installing the enclosure and ensure all drilling locations will not damage the gas lines before proceeding.

Fig. 2-9, CE-9X2 Enclosure Hole Locations

All dimensions in inches.
2.0 Installation

2.1 Dimensioned Enclosure Drawings, continued

2.1.5 PN-3

Fig. 2-10, PN-3 Enclosure Hole Locations

All dimensions in inches.
2.0 Installation

2.1 Dimensioned Enclosure Drawings, continued

2.1.6 PN-4

Fig. 2-11, PN-4 Enclosure Hole Locations

All dimensions in inches.
2.0 Installation

2.1 Dimensioned Enclosure Drawings, continued

2.1.7 UPE-3

Fig. 2-12, UPE-3 Enclosure Hole Locations

All dimensions in inches.

FRONT VIEW

Location of bracket mounting holes

Fig. 2-12, UPE-3 Enclosure Hole Locations

All dimensions in inches.
2.0 Installation

2.1 Dimensioned Enclosure Drawings, continued

2.1.8 UPE-M3

Fig. 2-13, UPE-M3 Enclosure Hole Locations

ALL DIMENSIONS IN INCHES.
2.0 Installation

2.1 Dimensioned Enclosure Drawings, continued

2.1.9 UPE-6

Fig. 2-14, UPE-6 Enclosure Hole Locations

All dimensions in inches.
2.0 Installation

2.1 Dimensioned Enclosure Drawings, continued

2.1.10 UPE-M6

Fig. 2-15, UPE-M6 Enclosure Hole Locations

All dimensions in inches.
2.0 Installation

2.1 Dimensioned Enclosure Drawings, continued

2.1.11 FPE

Fig. 2-16, FPE Enclosure Dimple Locations

All dimensions in inches; dimensions are for reference purposes.