SONIC ALARM™ Speaker
Pole Mounting Bracket Kit

MODEL 12537-001

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General Information

This kit is intended for the mounting of one or two speaker horns with 120° coverage on a single pole. A single horn can be mounted, or two horns can be stacked vertically and mounted as a unit to the pole. The kit includes the following components:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Mounting bracket</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Speaker spacer bracket</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Support bracket</td>
<td>3</td>
</tr>
<tr>
<td>12</td>
<td>Screw, hex head, 1/4-20 thread</td>
<td>4</td>
</tr>
<tr>
<td>24</td>
<td>Washer, flat, 1/4-inch</td>
<td>5</td>
</tr>
<tr>
<td>12</td>
<td>Lock washer, 1/4-inch</td>
<td>6</td>
</tr>
<tr>
<td>12</td>
<td>Nut, hex, 1/4-20 thread</td>
<td>7</td>
</tr>
</tbody>
</table>

Items 8-11 are not supplied in this kit; however, they are referred to in these instructions.

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 or 2</td>
<td>Model 13340 Horn with U-bracket and mounting hardware</td>
<td>8</td>
</tr>
<tr>
<td>1 or 2</td>
<td>Driver</td>
<td>9</td>
</tr>
<tr>
<td>1</td>
<td>Wood pole (see Figure 4 for specifications)</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>Lag screw recommended. Size .50×2.0 inches long</td>
<td>11</td>
</tr>
</tbody>
</table>

**NOTE:** Mounting hardware is required based on the configuration of the horn stack. Use only hardware that has a hot dipped galvanized finish. Lock washers and/or locking nuts are required.
Installation

This kit may be used to install a variety of speaker mount configurations on a single pole. For some configurations, more than one kit is required. Additional hot dipped galvanized hardware may also be required.

Multiple bracket assemblies may be arranged horizontally around the pole and/or in vertical stacks. Up to three brackets assemblies, covering 120° each, can be located on a single level around a pole providing 360° of coverage. In addition, the speaker horn brackets may be stacked vertically at multiple levels on a single pole. The following are some examples of possible arrangements:

1. **360-1**: In this arrangement, three mounting bracket assemblies are arranged on a single level around the pole for 360° of coverage. The speaker horns can be mounted on both levels of each bracket assembly. This arrangement requires three Model 12537-001 kits. See Figure 1.

![Figure 1. Arrangement 360-1](image-url)
2. **240-2**: In this arrangement two kits are used to mount two speaker brackets side by side for 240º of coverage. Four speaker horns may be mounted in this manner by using both levels of the bracket assembly. This configuration requires two kits. See Figure 2.

![Figure 2. Arrangement 240-2](image)

3. **360-4**: This is a 360º arrangement where four levels of speakers are mounted in two 2-unit stacks. This configuration requires the use of six kits. See Figure 3.

![Figure 3. Arrangement 360-4.](image)
The combinations and configurations possible are:

<table>
<thead>
<tr>
<th></th>
<th>120-1</th>
<th>120-2</th>
<th>120-3</th>
<th>120-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>240-1</td>
<td></td>
<td>240-2</td>
<td>240-3</td>
<td>240-4</td>
</tr>
<tr>
<td>360-1</td>
<td>360-2</td>
<td>360-3</td>
<td>360-4</td>
<td></td>
</tr>
</tbody>
</table>

**Installation of One to Six Horns at One or Two Levels on a Single Pole**

1. For each kit being used, assemble the mounting brackets (Item No. 1) and speaker spacer brackets (Item No. 2) using the screws, washers, and nuts (Item Nos. 4 to 7) as shown in Figure 4. Discard the support brackets (Item No. 3) and any unused hardware.

   **NOTE:** Depending on the personnel and hoist equipment available, the order of remaining steps may vary.

2. Mount the bracket assembly from step 1 to the pole. See Figure 4 and Figure 5. If multiple kits are being used, mount the additional assemblies.

3. Remove and discard the existing U-bracket from each horn (Item No. 8) to be mounted. Retain the U-bracket screws, split lock washers, and star washers. (U-bracket not shown.)

4. Secure the horn (Item No. 8) to the bracket assembly (see Figure 4 and Figure 5) using the hardware from step 3. Repeat the assembly for each horn.

5. Secure the driver (Item No. 9) to each horn, and wire it per the system requirements.

**Installation of Three to 12 Horns at Three or More Levels on a Single Pole**

The number of Model 12537-001 kits required depends on the mounting configuration selected. For example:

- Mounting 12 horns at four levels around the perimeter of the pole for 360° of coverage requires six kits. (See Figure 3.)
- Mounting six horns at three levels for 240° of coverage requires four kits.
- Mounting four horns at four levels for 120° of coverage requires two kits.

1. For each kit being used, assemble the mounting brackets (Item No. 1) and speaker spacer brackets (Item No. 2) using screws, washers, and nuts (Item Nos. 4 to 7). See Figure 4.

2. On one of the bracket assemblies, attach the support brackets (Item No. 3) using screws, washers, and nuts (Item Nos. 4 to 7) as shown in Figure 6.

3. Bolt both bracket assemblies together using screws, washers, and nuts (Item Nos. 4 to 7) as shown in Figure 6. Discard any unused hardware.

4. Repeat steps 2 and 3 for each additional stacked pair of kits to be installed.

5. Mount the bracket assemblies from step 1 to the pole. See Figure 4 and Figure 6.

6. Perform steps 3 through 5 in the “Installation of One to Six Horns” section above.
Figure 4. Installation of a single kit with 120° of coverage at two levels.

NOTE: THESE PARTS ARE NOT REQUIRED ON ALL VARIATIONS.
Figure 5. Showing the use of a single kit to stack one (or two) speaker horns.
Figure 6. Showing the use of two single kits to stack three (or four) speaker horns.
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Call 800-492-1212 (inside the USA) or 610-777-1374 (outside the USA) for help identifying the Regional Service Center closest to you.

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