Service Instructions for Vertical Mounting
Series 87,000; 87,100; 87,200; 87,400; 87,500 and 87,700 (rev. B)

Spring arrangement for vertical mounting above motor for standard friction discs with brass pressure plate and stationary disc(s). For other combinations of material consult factory.

### 1 Friction Disc – Vertical Above

<table>
<thead>
<tr>
<th>Item No.</th>
<th>No. Req.</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>9-70-1118-00</td>
<td>Blue Vertical Push-in Spring</td>
</tr>
</tbody>
</table>

### 2 Friction Discs – Vertical Above

<table>
<thead>
<tr>
<th>Item No.</th>
<th>No. Req.</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>9-70-1118-00</td>
<td>Blue Vertical Push-in Spring</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>9-70-1115-00</td>
<td>Plain Vertical Push-in Spring</td>
</tr>
</tbody>
</table>

### 3 Friction Discs – Vertical Above

<table>
<thead>
<tr>
<th>Item No.</th>
<th>No. Req.</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>9-70-1115-00</td>
<td>Plain Vertical Push-in Spring</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>9-70-1120-00</td>
<td>Green Vertical Push-in Spring</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>9-70-1120-00</td>
<td>Green Vertical Push-in Spring</td>
</tr>
</tbody>
</table>

**NOTES:**

1. Follow installation and service instruction sheet P/N 8-078-928-01 for assembly of brake to motor.
2. Insert identically colored springs into the stationary disc/pressure plate as it pertains to the number of disc(s) in your brake. (Example: For two friction discs vertical below, always use the red springs in the pressure plate.)
3. For part numbers of endplate, stationary disc and pressure plate, refer to parts list sheet for your specific brake.

**Note 1:** Insert spring by turning clockwise until large coil diameter bottoms against the stationary disc/pressure plate.

**Caution!** Brakes with carrier discs cannot be used in a vertical orientation due to the weight of the disc.
Spring arrangement for vertical mounting below motor for standard friction discs and brass stationary disc(s). For other combinations of material consult factory.

<table>
<thead>
<tr>
<th>2 Friction Discs – Vertical Below</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item No.</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3 Friction Discs – Vertical Below</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item No.</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

*formerly Black spring

**NOTES:**

1. Follow installation and service instruction sheet P/N 8-078-928-01 for assembly of brake to motor.
2. Insert identically colored springs into the stationary disc/pressure plate as it pertains to the number of disc(s) in your brake. (Example: For two friction discs vertical below, always use the red springs in the pressure plate.)
   
   **Note 1:** Insert spring by turning clockwise until large coil diameter bottoms against the stationary disc/pressure plate.

   **Note 2:** Reassemble the disc pack with the stationary discs/pressure plate in the proper arrangement shown above.

   Always insert stationary disc/pressure plate with the spring side toward the motor.

3. For part numbers of endplate, stationary disc and pressure plate, refer to parts list sheet for your specific brake.
4. Brakes with a single friction disc do not require a modification for vertical mounting below.

**Caution!** Brakes with carrier discs cannot be used in a vertical orientation due to the weight of the disc.