**START**

THANK YOU FOR CHOOSING A VIBCO VIBRATOR!

**MOUNTING INSTRUCTIONS CHECKLIST**
- Determine vibrator placement on equipment.
- Determine length of channel iron and style of mounting plate.
- **STITCH** welding mounting plate to channel iron.
- **STITCH** weld channel iron to bin.
- Attach vibrator to mounting plate. Check the mounting plate for warping & shim if necessary. **DO NOT OVER TIGHTEN THE BOLTS.**
- Install safety chain or cable.
- Connect wiring for vibrator using the NEC Standards.
- Take a voltage reading while vibrator is running.
- Take an amperage reading while vibrator is running.
- **FILL OUT WARRANTY CARD AND MAIL TO VIBCO!!!**

**ADDITIONAL DETAILS AVAILABLE ONLINE AT:** www.vibco.com

**VIBRATOR PLACEMENT**
For hopper mounts: mount vibrator 1/4 of the distance from the discharge opening to the top of the sloped portion of the bin or hopper. For truck/spreader mounts: mount vibrator 1/4 of the distance from the discharge and 1/3 of the distance from the back of the truck, spreader or trailer.

**MOUNTING HARDWARE**
A MOUNTING PLATE MUST BE USED to ensure proper stability for the vibrator. Always start & stop welds 1 in. from ends to prevent heat concentration. Then weld 2 to 3 inches, skip 1 to 2 inches and repeat until the plate is securely mounted.

**BOLTING PROCEDURE**
Now put vibrator in place. Make sure it is secured tightly. Retighten bolts after first 10 to 15 minutes of operation and check periodically to maintain proper tightness.

**RERAINT**
**ALWAYS INSTALL SAFETY CABLE OR CHAIN** Mount one end to the vibrator and the other to the hopper or bin above the vibrator. NEVER ATTACH TO THE MOUNTING PLATE!

**ELECTRICAL INSTALLATION**
All VIBCO wiring kits contain necessary wires, switches and terminals needed for proper install of your DC vibrator.

**PACES & CHANNEL SELECTION**

<table>
<thead>
<tr>
<th>VIBRATOR FORCE in lbs</th>
<th>WIRE PLATE THICKNESS</th>
<th>CHANNEL IRON SIZE</th>
<th>FACTOR A</th>
<th>BOLT SIZE in.</th>
<th>MAX TORQUE ft-lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 100</td>
<td>1/4&quot;</td>
<td>2&quot; x 1 lbs</td>
<td>1</td>
<td>5/16&quot;</td>
<td>4</td>
</tr>
<tr>
<td>101 - 200</td>
<td>1/4&quot; - 3/8&quot;</td>
<td>2&quot; x 1 lbs</td>
<td>2</td>
<td>5/16&quot;</td>
<td>6</td>
</tr>
<tr>
<td>201 - 500</td>
<td>1/2&quot;</td>
<td>2&quot; x 1 lbs</td>
<td>3</td>
<td>3/8&quot;</td>
<td>8</td>
</tr>
<tr>
<td>501 - 1200</td>
<td>1/2&quot;</td>
<td>2&quot; x 1 lbs</td>
<td>4</td>
<td>1/2&quot;</td>
<td>10</td>
</tr>
<tr>
<td>1201 - 3000</td>
<td>1/2&quot;</td>
<td>2&quot; x 1 lbs</td>
<td>5</td>
<td>1/2&quot;</td>
<td>12</td>
</tr>
<tr>
<td>3001 - 5000</td>
<td>1/2&quot;</td>
<td>2&quot; x 1 lbs</td>
<td>6</td>
<td>1/2&quot;</td>
<td>14</td>
</tr>
<tr>
<td>5001 - 10000</td>
<td>1/2&quot;</td>
<td>2&quot; x 1 lbs</td>
<td>7</td>
<td>1/2&quot;</td>
<td>16</td>
</tr>
</tbody>
</table>

**STITCH WELD MOUNTING**

**STITCH WELDS SHOULD BE 3" - 4" LEAVING 2 - 3 MARGIN EACH WELD**

**STITCH WELDS SHOULD START & STOP 1/2 (9.5) IN. FROM BOTH ENDS OF CHANNEL TO PREVENT CRACKING**

**DC 12 & 24 Volt DC Powered Vibrators**

**800-633-0032 for Mounting Plates & Brackets, Spare & Replacement Parts and 24/7 Technical Support**

**800-633-0032 • vibrators@vibco.com • www.vibco.com**

**REV07-14**
WARNING: Failure to read and follow these installation instructions and safety precautions could result in personal injury, equipment damage, shortened service life or unsatisfactory equipment performance. All information in this document is vital to the proper installation and operation of the equipment. It is important that all personnel who will be coming in contact with this product thoroughly read and understand this manual.

10 ELECTRICAL INSTALLATION CONT.

All VIBCO wiring kits contain necessary wires, switches and terminals needed for proper install of your DC vibrator.

Use the chart at the right to select the proper wiring kit and fuse needed.

**NOTE:** For salt & sand spreader mounts refer to our online instructions or call the factory for assistance

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>WIRING KIT</th>
<th>FUSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-100</td>
<td>WK-1</td>
<td>15 AMP</td>
</tr>
<tr>
<td>DC-200</td>
<td>WK-1</td>
<td>25 AMP</td>
</tr>
<tr>
<td>DC-300</td>
<td>WK-1</td>
<td>20 AMP</td>
</tr>
<tr>
<td>DC-450</td>
<td>WK-2</td>
<td>25 AMP</td>
</tr>
<tr>
<td>DC-500</td>
<td>WK-1</td>
<td>20 AMP</td>
</tr>
<tr>
<td>DC-700</td>
<td>WK-2</td>
<td>25 AMP</td>
</tr>
<tr>
<td>DC-900</td>
<td>WK-2</td>
<td>35 AMP</td>
</tr>
<tr>
<td>DC-1600</td>
<td>WK-2</td>
<td>35 AMP</td>
</tr>
</tbody>
</table>

In-line fuse strongly recommended for all DC vibrators to protect the unit & equipment.

NOTE: All VIBCO products are non-returnable. Claims must be made within five days after receipt of goods. Clerical errors are subject to correction. Damage during shipping must be reported to the carrier, not VIBCO.

Errors, Shortages & Complaints

Complaints concerning goods received or errors should be made at once. Claims must be made within five days after receipt of goods. Clerical errors are subject to correction. Damage during shipping must be reported to the carrier, not VIBCO.

Returning Parts

Parts should not be returned to VIBCO without prior authorization. Call VIBCO’s customer service department at 800-633-0032 (800-465-9709 in Canada) for a Return Goods Authorization (RGA) number. A return authorization will be emailed or faxed to you. Use this as your packing slip.

Authorization (RGA) number. A return authorization will be given for a Return goods. Clerical errors are subject to correction. Damage during shipping must be reported to the carrier, not VIBCO.

Parts should not be returned to VIBCO without prior authorization. Call VIBCO’s customer service department at 800-633-0032 (800-465-9709 in Canada) for a Return Goods Authorization (RGA) number. A return authorization will be emailed or faxed to you. Use this as your packing slip.

**NOTE:** All VIBCO products are non-returnable. Claims must be made within five days after receipt of goods. Clerical errors are subject to correction. Damage during shipping must be reported to the carrier, not VIBCO.

**Orders for custom equipment built to customer’s specifications are not returnable.**

Product Changes

VIBCO reserves the right to make changes in pattern, design or materials when deemed necessary, without prior notice or obligation to make corresponding changes in previous models. To be sure of exact mounting dimensions, it is recommended that you obtain a certified dimensional drawing from the factory.

Ordering Spare Parts

Parts can be ordered through authorized distributors or from VIBCO’s Spare Parts Department. The following data should be provided when placing your spare parts order:

From label: Model number of unit.

From spare parts list: Reference number, part number, description & quantity required.

Shipping instructions: Specify shipping point and method of shipping.

800-633-0032 • vibrators@vibco.com • www.vibco.com

12 DUTY CYCLE

For continuous duty units be sure to use a continuous duty solenoid (VIBCO part number 1500PF56).

### MODELS: DC-100, 200, 300, 900 & 1600

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>DUTY RATE</th>
<th>RUN TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-20, 50, 60, 100, 200, 300 &amp; 500</td>
<td>CONTINUOUS</td>
<td>UNLIMITED</td>
</tr>
<tr>
<td>DC-400T, 700, 900 &amp; 1600</td>
<td>INTERMITTENT</td>
<td>30 min MAX in any 60 min period</td>
</tr>
</tbody>
</table>

The duty cycle must be determined in each particular application. A temperature test of the field casing can help to determine the duty cycle. Longer duty cycles can considerably decrease brush life, and VIBCO’s liability under the warranty does not cover duty cycles longer than those stated above.

13 TROUBLESHOOTING

1.) An unusual sound (banging) coming from the vibrator. This usually means that the mounting plate or channel is cracked, or the vibrator is loose.

- Check the vibrator mounting bolts for tightness.
- Check the mounting for fatigue cracks.
- New installations may be too weak. Reinforce mount area immediately by adding "T" stiffeners-angle iron or channel iron check for fatigue cracks (see frame 6).
- In old installations look for cracks in mounting angle iron , plates and welds. Repair and reinforce immediately (see frame 6).

2.) Vibrator doesn’t start.

- Make sure vibrator is getting power. Check fuses and make sure all connections are properly secured.
- Check that shaft spins freely by removing end cover(s) - if not re-shim.
- New installations should insure that the vibrator is properly grounded to the frame. If the vibrator is not mounted to the main frame, such as on a pivoted truck body, make sure the body is grounded to the main frame.
- New installations should insure that the vibrator is properly grounded to the frame. If the vibrator is not mounted to the main frame, such as on a pivoted truck body, make sure the body is grounded to the main frame.
- Make sure push button or on/off switch and solenoid are in proper working order. If damaged or non-functioning, replace.
- Be sure mounting plate is properly shimmed for DC-200, -300, -900, -1600 (see frame 7).

3.) Vibrator is running slow (loss of RPM).

- Measure motor voltage. If less than 12 volts DC, wire size should be increased to 18 gauge.
- Check brushes move freely in the brush holders. Change brushes if worn to less than 3/8”.
- New installations or any other questions:

800-633-0032 or vibrators@vibco.com

For custom mounting applications or any other questions:

800-633-0032 • vibrators@vibco.com • www.vibco.com

800-633-0032 • vibrators@vibco.com • www.vibco.com