



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.



### VIBRATOR PLACEMENT

For coarse materials: mount vibrator 1/3 of the distance from the discharge opening to the top of the sloped portion of the bin.

For fine materials: mount vibrator 1/4 of the distance from the discharge to the top of the sloped portion of the bin.

STANDARD

FOR ALTERNATE MOUNTS

refer to full detail instruction manual online at www.vibco.com or call 800-633-0032

# **MOUNTING HARDWARE**

STUDDED

A MOUNTING PLATE MUST BE USED

to ensure proper stability for the

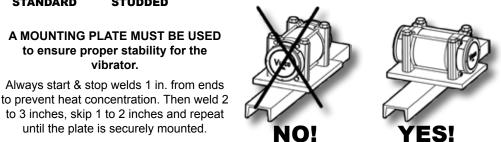
vibrator.

Always start & stop welds 1 in. from ends

until the plate is securely mounted.

1/4 TO 1/3 L

### **VIBRATOR & MOUNTING PLATE MUST BE** MOUNTED PERPENDICULAR TO CHANNEL **IRON, NOT PARALLEL. OTHERWISE, IT** WILL CAUSE FLEXING & THE VIBRATOR WILL OVERLOAD & BURN OUT.



# **PLATES & CHANNEL SELECTION**

VIBRATOR FORCE in LBS	MNTNG PLATE THICKNESS	CHANNEL IRON SIZE	FACTOR A
101 - 500	1/4" - 3/8"	3" x 4.1 lbs 3" x 5 lbs	2
501- 1200	1/2"	4" x 5.4 lbs 4" x 7.5 lbs	3
1201 - 3000	5/8"	6" x 8.2 lbs / 6" x 10.5 lbs	4
3001 - 5000	3/4" - 1"	6" x 8.2 lbs / 6" x 10.5 lbs 8" x 8.5 lbs / 8" x 11.5 lbs	5

	FACTOR A + B	USE CH. IRON LENGTH
FACTOR B	11	N/A
	10	6 - 8 FT. (80 - 90%)
6	9	5 - 7 FT. (70 -80%)
5	8	4 - 6 FT. (60 - 70%)
3	7	3 - 5 FT. (50 - 60%)
2	6	2 - 4 FT. (50 - 60%)
	5	1 - 2 FT. (50 - 60%)

**BIN WALL** 

1/8" (10 ga.) or less

1/8" - 1/4"

1/4" - 3/8"

3/8" - 1/2"

1/2" & up

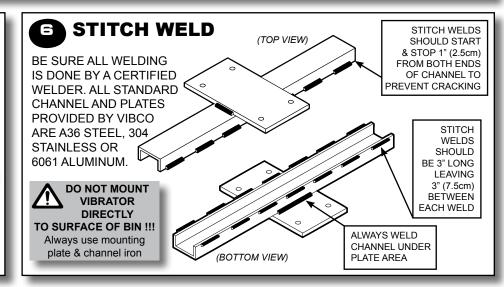
N/A

### NOTE:

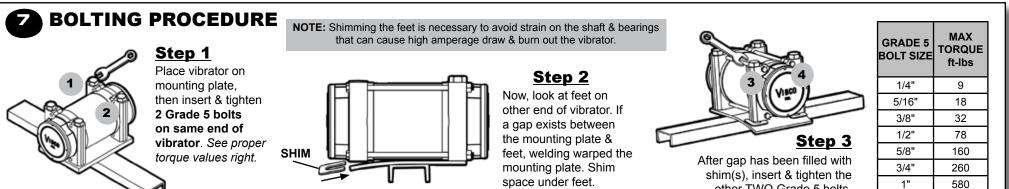
1. Longer channel iron will not affect vibrator performance, but

total channel length should not exceed length of bin wall. 2. Percentages shown indicate % of bin wall height your channel iron should be

for shorter bins. 3. To match your vibrator on chart above, model number suffixes generally correspond to pounds of force generated. For any questions, consult VIBCO



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



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

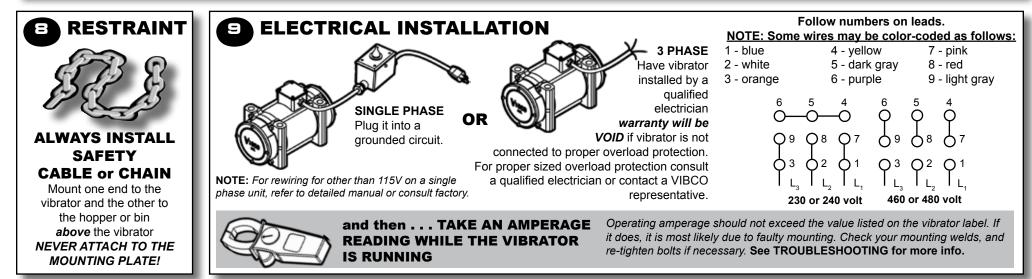
maintain proper tightness. Damage to both bin and vibrator can occur if vibrator is not mounted securely. NOTE: no matter how thick the

mounting plate, it can still warp during welding, especially if VIBCO's instructions are not followed.

other TWO Grade 5 bolts.

5/8"	160
3/4"	260
1"	580
1-1/4"	1105

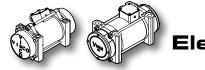
For other bolt grades. please consult VIBCO.



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



# VIBCO



## Heavy Duty Electric Vibrators

MAXIMUM OPERATING

TEMPERATURE

Skin temperature of vibrator should not exceed

180° F (82° C). If it exceeds this, consult VIBCO for alternate solutions.

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# **10** LUBRICATION

### HIGH TEMPERATURE UNITS CONSULT FACTORY! Grease Specifications

Lubriko M21 general purpose grease or equal Sodium Calcium based NLGI grade 2 grease. Minimum temperature range 0°- 225°F. Minimum viscosity 70 - 80 SUS (at 212°F).

Use 2.5 to 3 grams (two pumps with standard manual grease gun). Do not over grease!

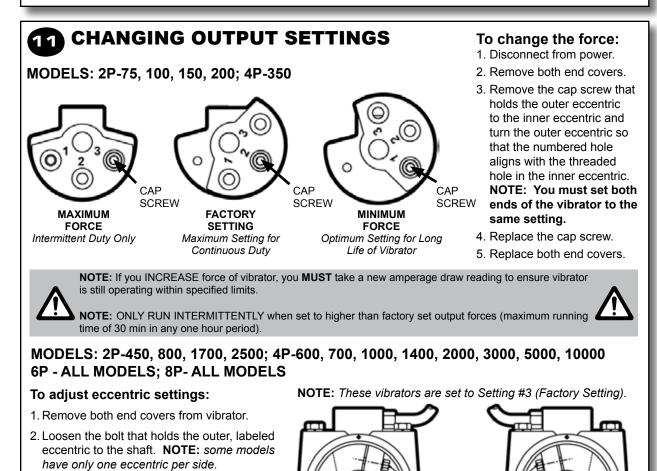
MODEL #	INTERMITTENT DUTY	CONTINUOUS DUTY
2P-800, 2P-1700, 2P-2500, 2P-3500, 2P-4500, 2P-5500	Lubricate every 400-500 hours	Lubricate every 2 weeks
4P-1400, 4P-2000, 4P-3000, 4P-5000, 4P-10000	Lubricate every 1000-2000 hours	Lubricate every 4 weeks
6P-1000, 6P-1500, 6P-2500, 6P-5000	Lubricate every 1500-3000 hours	Lubricate every 6 weeks
8P-500, 8P-750, 8P-1250, 8P-2500	Lubricate every 3000-4000 hours	Lubricate every 8 weeks

Models 2P-75, 2P-100, 2P-150, 2P-200, 2P-450, 4P-350, 4P-700, 4P-1000, and 6P-500 are pre-lubricated for life.

BOLT

Settings 1 - 3 are continuous duty rated

Settings 4 - 6 are intermittent duty rated only



3. Turn the eccentric on the shaft to adjust force output. Align the arrow on the shaft to the desired setting. The higher the number, the greater the force.

**NOTE:** You must set both ends of the vibrator to the same setting.

4. Tighten eccentric bolts and reinstall end covers.

For vibrators mounted in tandem (side to side, not end-to-end) to produce linear motion on table & feeder applications:

To produce linear motion you must make sure vibrators rotate opposite from one another. Force output labels should be opposite to one another when viewed from the same side (one increases clockwise, the other counter-clockwise as in picture above). Follow instructions as above, & be sure you set both vibrators & both ends to the same setting. Consult VIBCO for more details.



**NOTE:** If you INCREASE force of vibrator, you **MUST** take a new amperage draw reading to ensure vibrator is still operating within specified limits.

LEFT

**NOTE:** Only run intermittently when set to higher than factory set output forces (maximum running time of 30 min in any one hour period).

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### MY MATERIAL STILL ISN'T MOVING!

- 1. Did you put your vibrator in the right location? Did you mount your vibrator properly?
- 2. Do you have the right vibrator for the job? Does it provide enough force? Do you have the vibrator set to the maximum force? (see left) Is it the right frequency? Still not sure? Call VIBCO Technical Support at 800-633-0032.

### THE VIBRATOR WON'T START!

- 1. Check power supply to unit. Are you getting the proper voltage? Has the thermal overload protection tripped?
- 2. Check stator continuity, if "open" stator winding is burned or has a short, replace stator. If unsure how to check continuity, call VIBCO or consult a licensed electrician.

### VIBRATOR STOPS RUNNING!

- 1. Check power supply to unit.
- 2. Has the thermal overload protection tripped? Single phase units are supplied with overload switches. Three phase units must be connected to three phase motor starters with proper overload protection. If overload protection has tripped, wait a minimum of two (2) minutes then reset by switching firmly off and then on again.
- 3. Are you running the vibrator in a wet or wash down environment? Consult VIBCO about wash down rated models.
- Are you running the vibrator in a high temperature environment? Consult VIBCO about high temp rated models. Refer to full detail instructions for proper mounting in high temp applications.
- Are you running the vibrator continuously? All VIBCO heavy duty models are rated for continuous duty but only at certain eccentric settings. See diagrams to left for proper output force settings for continuous duty.
- NOTE: For best performance and vibrator life cycle, it is best to run them intermittently. Consult VIBCO for available timers.
- 6. Are you repeatedly stopping and starting the vibrator? This can overload the vibrator. Use the following guidelines for proper timing of starts and stops:
- Single phase (2P-75, 100 & 150):

For run times of 10 seconds or less, use 1:7 ratio for run time vs. off time. (example: 5 seconds on to 35 seconds off). For run times longer than 10 seconds, use 1:1 ratio.

Single phase (2P-200, 450, 800; 4P-350, 700, 1000, 1400; 6P-300, 500): These are capacitor start models and rated for a MAXIMUM of 30 starts per hour.

### Three phase:

For run times of 10 seconds or less, use 1:7 ratio for run time vs. off time. (example: 5 seconds on to 35 seconds off). For run times longer than 10 seconds, any cycle is acceptable.

NOTE: Proper force for full hopper can be excessive for empty or near empty hopper.

#### Warranty

All warranty claims must be submitted to VIBCO for approval prior to any repairs being done. Failure to do so will void any and all warranty coverage. All repairs will be done at the VIBCO factory.

RIGHT

### 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. Return shipping must be prepaid. Material returned may be subject to a 10% restocking fee. All returned shipments should clearly display your name, address and original invoice number to ensure proper credit.

\*\* 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.



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