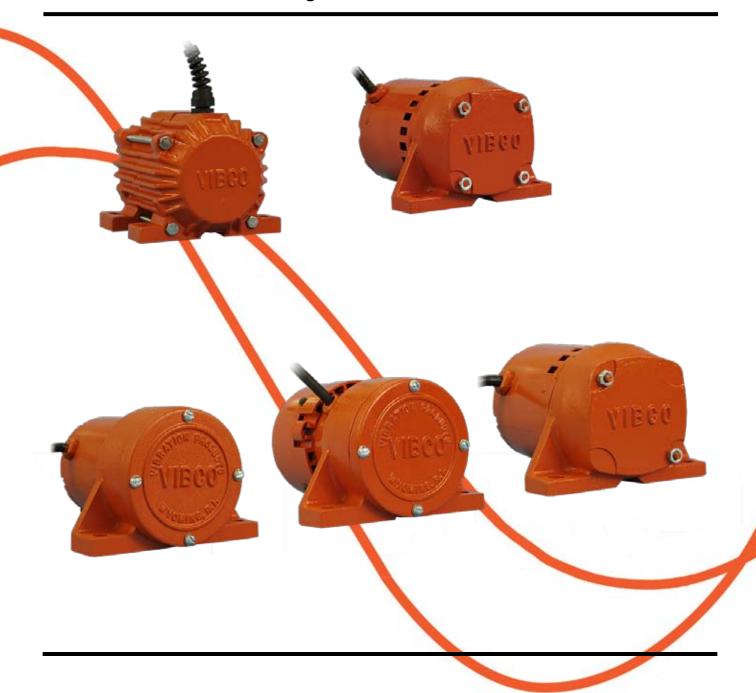
Small Electric Line

Mounting Instructions • Operating Instructions Troubleshooting • Technical Data • Parts List





HQ & Factory: 75 Stilson Road Wyoming, RI 02898

E-mail: vibrators@vibco.com Phone: 800 633-0032 (401) 539-2392 Fax: (401) 539-2584 Canada: 2215 Dunwin Drive Mississauga, ONT L5L 1X1

E-mail: vibrators@vibco.com Phone: 800 465-9709 (905) 828-4191 Fax: (905) 828-5015 Thank you for choosing VIBCO, Inc. for your vibration needs. You are now the owner of the finest small impact electric vibrator available today, backed by complete manufacturer confidence in its quality and dependability. For reference, please complete the information below about your new VIBCO vibrator.

Model Number:	 choos Vi
Serial Number:	
Date of Purchase:	



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.

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WARNING LABELS AND SERIAL NUMBER TAGS

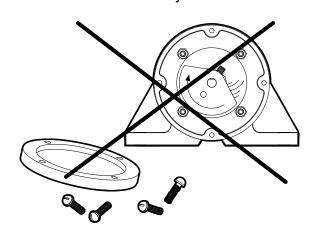




WARNING!

Do not operate with the cover removed. Whenever the cover is removed make sure that the power is turned off and cannot be turned on accidentally.

Label Location: On body of vibrator.







GROUND CONNECTION WARNING LABEL



Make sure ground connections are completed. Disconnect electric supply before working on unit.

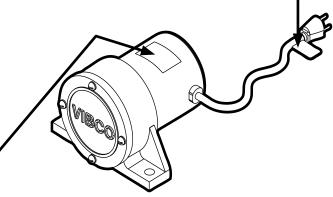
Asegurese Que La Conexion A Tierra Esta Hecha. Antes De Abrur La Unidad Desconecte La Energia Eléctrica

S'assurer se les mises à la masse sont bien effectu 'es Avant de travailler sur l'appareil, débrancher la source d'alimentation

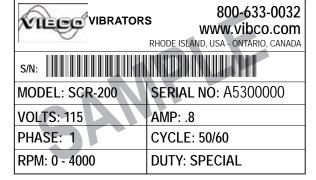
WARNING!

Make sure ground connections are completed. Before working on unit disconnect electric supply.

Label Location: Wrapped around end of cord



Please have the information on this tag ready when ordering parts or contacting the technical service department at VIBCO. **Label Location:** On body of vibrator.



 \triangle

Note: Always make sure that the vibrator **does not run above** the specified amperage for which the vibrator is wired.

SERIAL NO. & SPECS TAG

SAFETY INSTRUCTIONS



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.

MODEL DEFINITIONS

VIBCO's model SPR line of electric vibrators utilize a shaded pole motor. To ensure a long operating life, they are constructed with ball bearings, not sintered bronze bearings, and have a low amperage draw. HD models have oversized bearings and shafts for use in severe duty applications.



SPR-20 & -21: Open, Fan Cooled Motor For Clean, Dry, Non-Dusty Environments



SPR-60 & -80: Totally Enclosed Fan-Cooled Motor NEMA Code TEFC, for Clean, Dry, Non-Dusty Environments

HD: Heavy Duty Motors NEMA Codes TEFC **OR** TENV, for 24/7 Continuous Operation

SPR-40, -60 & -80 SPR-60 HD & -80 HD



SPRT: Totally Enclosed, Non-Ventilated Motor NEMA Code TENV, for Dusty Environments



SPWT: Watertight, Totally Enclosed, Non-Ventilated Motor NEMA Code 4, for Wash Down or Wet Environments



SPRT: Totally Enclosed, Non-Ventilated Motor NEMA Code TENV, for Dusty Environments

HD: Heavy Duty Motors

NEMA Codes TEFC **OR** TENV, for 24/7 Continuous Operation

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SPRT-40, -60 & -80 SPRT-60 HD & -80 HD

RFV091-14

MOUNTING INSTRUCTIONS CHECKLIST



REV091-14

Factory warranty is **VOID** if vibrator is not installed per these instructions.



DO NOT MOUNT VIBRATOR DIRECTLY TO SURFACE OF BIN!!! (IT WILL DAMAGE THE BIN)

CUSTOM MOUNTING INSTRUCTIONS

VIBCO's application specialists are providing general instructions and guidelines for the installation of our vibrators on customer equipment. These instructions and guidelines are based on the industries best practices and years of experience in applying vibrators. VIBCO specialists are available to review a customer's individual application to verify installation and make recommendations. These recommendations should not be considered as the Welding Procedure Specifications for the installation.

If Welding Procedure Specifications are required, they should be provided by a professional engineer who is familiar with the structure the vibrator is being mounted to, as well as all of the specifications of the materials being used, and any of the environmental details present at the application.

MOUNTING INSTRUCTIONS

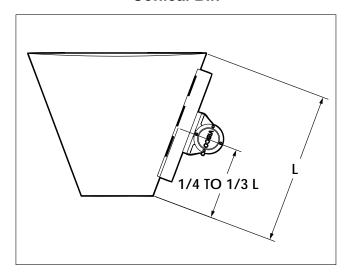


PROPER PLACEMENT OF VIBRATOR IS ALWAYS LOCATED ON THE SLOPED PORTION OF THE BIN!

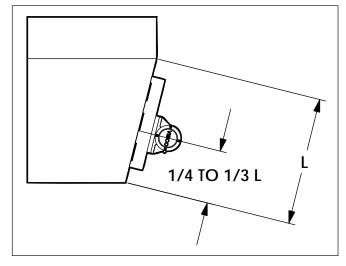
Vibrator Placement

For coarse materials the vibrator should be mounted approximately 1/3 of the distance from the discharge opening to the top of the sloped portion of the bin. For fine materials place the vibrator 1/4 of the distance from the discharge to the top of the sloped portion of the bin.

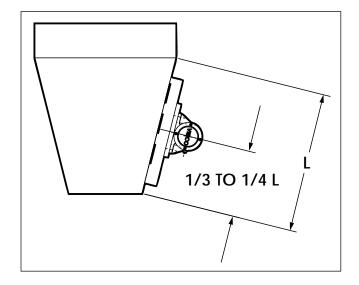
Conical Bin



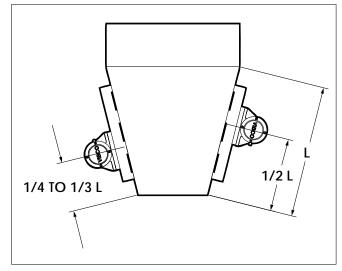
1/2 Rectangular Bin



Rectangular Bin



Two Vibrators On A Single Bin (Normally used to clean out bin or for larger bins)





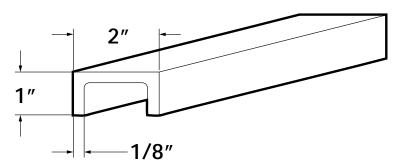
DO NOT MOUNT VIBRATOR DIRECTLY TO SURFACE OF BIN!!! (IT WILL DAMAGE THE BIN)

MOUNTING INSTRUCTIONS continued

Determining Length of Channel Iron

All of VIBCO'S SPR Electric Vibrators are designed to use standard 2" Channel Iron.

However, 3" Channel Iron is also acceptable.



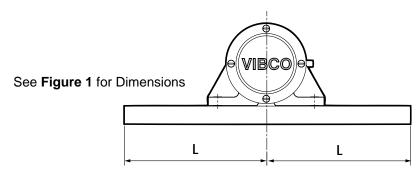
The thickness of your bin walls determines the minimum length of channel iron needed in order to successfully mount your vibrator. To find out what length of channel iron is needed for your application, refer to the chart below.

Figure 1

Bin Wall Thickness	Minimum Channel Length (L)
Less Than 1/8" (thin)	12" to 24" on both sides of vibrator
Greater Than 1/8"	6" to 8" on both sides of vibrator



Note: Longer channel iron will not affect the vibrator performance, but total channel iron length should not exceed the length of the bin wall.



MOUNTING PLATES AVAILABLE FROM VIBCO

Don't have the time or the resources to manufacture your own mounting plates? VIBCO supplies mounting plates for all SPR Electric Vibrators. Choose the plate you need from the table below. Mounting bolts are included free of charge.

Figure 2

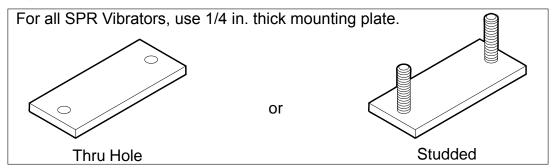
REV091-14

Model	SPR-20	SPR-21	SPR-80 & 80HD SPR-60 & 60HD	SPRT-21	SPWT-21	SPWT-60	SPWT-80
Mounting Plate Part #	SPM-1	SPM-1	SPM-2	SPM-1	SPWM	SPWM	SPWM

Mounting Plates can be purchased with thru-holes standard (see Page 8.) For studded Mounting Plates add -ST to the part number when ordering.

Determining Style of Mounting Plate

Figure 3



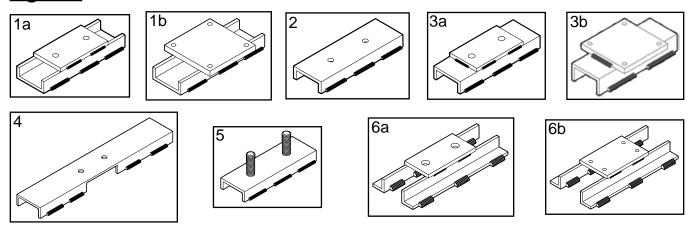
Mounting Plates for all SPR Vibrators can be purchased directly from VIBCO. Call (800) 633-0032

(See previous page for proper sizing & Part No.'s)

Stitch Welding Mounting Plate to Channel Iron

Always start and stop welds 1" from ends to prevent heat concentration. In accordance with the appropriate picture below, weld 2 to 3 inches, skip 1 to 2 inches and repeat until securely mounted. NOTE: length and spacing of stitch welds described here is different than that for mounting the channel iron to the bin.

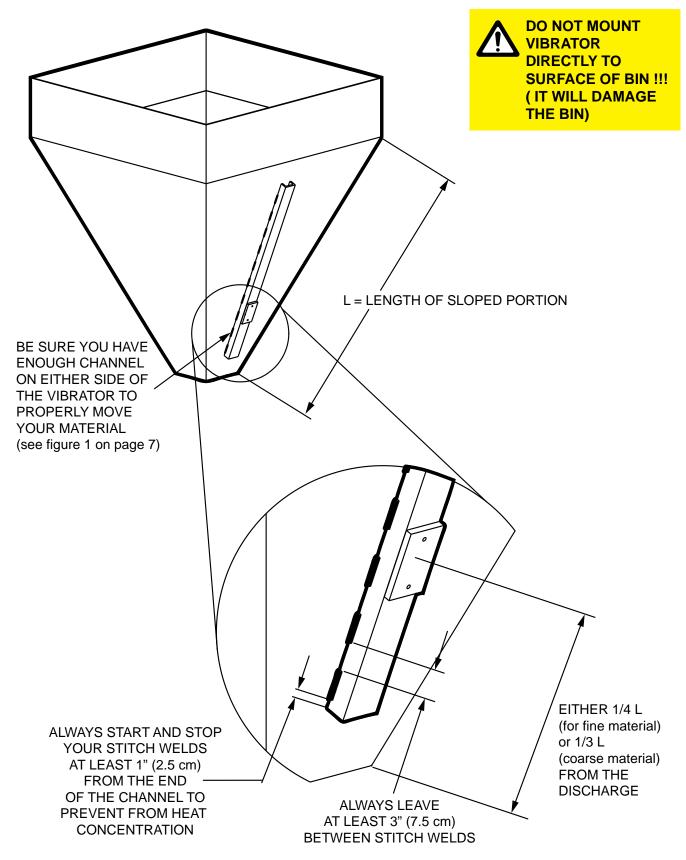
Figure 4



Different Suggestions for Styles of Channel Iron

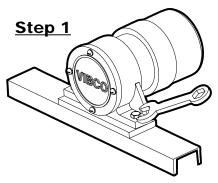
- 1a & b) Mounting plate welded to legs of channel iron (a-SPR, SPRT; b-SPWT).
- 2) Channel iron with holes drilled thru & nuts welded on back, or just holes drilled thru (SPR, SPRT).
- 3a & b) Mounting plate on face of channel iron & holes drilled or tapped thru (a-SPR, SPRT; b-SPWT).
- 4) Notch the channel for access to mounting bolts (SPR, SPRT).
- 5) Weld studs to back of channel (SPR, SPRT).
- 6a & b) Mounting plate welded to two angle iron stiffeners instead of channel iron (a-SPR, SPRT; b-SPWT).

Stitch Welding Channel Iron to Bin



VIBRATOR INSTALLATION

It is now time to put the VIBCO vibrator in place. Make sure that it is secured tightly. Retighten the bolts after the first 10 to 15 minutes of operation and check them periodically to maintain proper tightness. Damage to both the bin and the vibrator can occur if the vibrator is not mounted securely. And remember, no matter how thick the mounting plate, it can still warp during welding, especially if VIBCO's instructions are not followed



1) Place vibrator on mounting plate, then insert and tighten one bolt. See proper torque values listed to the right

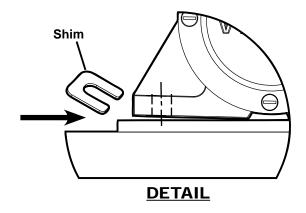
Step 2

BOLT	TORQUE
SIZE	ft-lbs
1/4"	13
5/16"	25
3/8"	48

2) After tightening the first bolt, look at the foot on the other side. If a gap exists between the mounting plate and foot of the vibrator, welding may have warped the channel iron. You will need to shim the space under the foot.



DO NOT MOUNT VIBRATOR
DIRECTLY TO SURFACE OF BIN !!!
(IT WILL DAMAGE THE BIN)

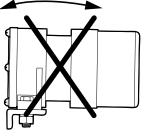


VIBCO

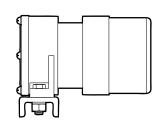
3) After gap has been filled with shim(s), insert and tighten the second bolt







Angle Iron



Channel Iron

PHONE: 1-800-633-0032 WWW.VIBCO.COM VIBE

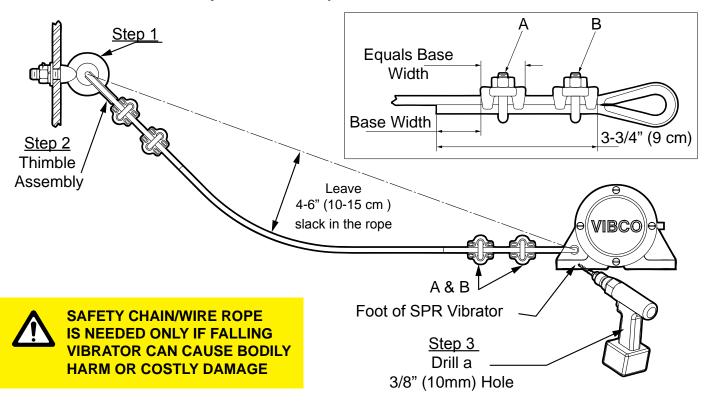
Step 3

FAX: 1-401-539-2584 VIBRATORS@VIBCO.COM

SAFETY CHAIN OR WIRE ROPE INSTALLATION

- 1) After properly mounting your vibrator, determine a suitable location to anchor it to, then install an eyebolt as shown below.
- 2) Place thimbles around eyebolts, then loop the wire rope (1/8" dia.) around the thimble. Next place the two rope clips around the wire rope as shown in the figure below. First applying Clip A as shown, then applying Clip B as close as possible to the thimble.
- 3) Using a 3/8" drill, make a hole in the housing as shown below. Next place the thimble through the hole you drilled and loop the wire rope around the thimble. Secure the wire rope as shown in the figure below. First applying Clip A as shown, then applying Clip B as close as possible to the thimble.

NOTE: Safety wire kit can be purchased from VIBCO, Part No. SC-1.



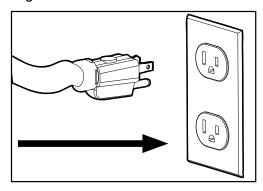
Because standard SPR vibrators are 115 Volt Single Phase, with low amperage draw, they can be plugged into any standard NEMA 5 - 15R receptacle. 230V Single Phase models are also available, supplied with 3-Wire Pigtail wire (*NOTE: black & white wires are power leads, green wire is ground*). All SPR vibrators are equipped with internal thermal protection to prevent the vibrator from running over internal temperatures of 195 °F (90°C). To protect the vibrator from overload, a single phase overload protection should be installed in accordance with the amperage draw.

Figure 5

After correctly mounting your vibrator and installing the safety chain or wire rope, you are ready to plug in your new VIBCO SPR Vibrator.

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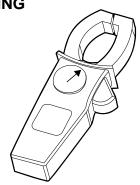
VIBRATOR INSTALLATION

TAKE AN AMPERAGE DRAW WHILE THE VIBRATOR IS RUNNING

Maximum Amperage

The operating amperage of the vibrator should not exceed the value listed in the table below. If the vibrator runs above this amperage, it is most likely due to faulty installation. Check your mounting welds, and re-tighten bolts if necessary.

Please refer to TROUBLESHOOTING on Page 21 for additional details.

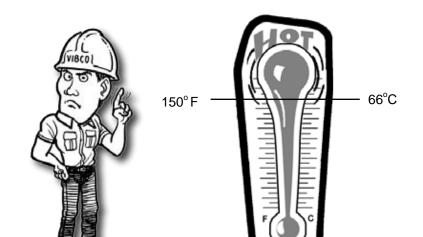


MODEL	\/al4	olt Amno			60 Hz	50 Hz		
MIODEL	Volt	Amps	PH.	VPM	Force (lbs/N)	VPM	Force (lbs/N)	
SPR-20	115/230	0.5/0.25	1	1600	15/67	1400	11/47	
SPR-21	115/230	0.8/0.4	1	3200	20/89	2800	14/62	
SPR-40	115/230	1.4/0.7	1	1600	25/111	1400	18/78	
SPR-60 & 60HD	115/230	1.5/0.75	1	3200	60/267	2800	42/187	
SPR-80 & 80HD	115/230	1.7/0.85	1	3200	80/356	2800	56/250	
SPRT-21	115/230	1.4/0.7	1	3200	20/89	2800	14/62	
SPRT-60 & 60HD	115/230	1.5/0.75	1	3200	60/267	2800	42/187	
SPRT-80 & 80HD	115/230	1.7/0.85	1	3200 80/356		2800	56/250	
SPWT-21	115/230	1.4/0.7	1	3200	20/89	2800	14/62	
SPWT-60	115/230	1.5/0.75	1	3200	60/267	2800	42/187	
SPWT-80	115/230	1.7/0.85	1	3200	80/356	2800	56/250	



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NOTE: Should overload occur, the vibrator will automatically stop and then restart after cooling down. Check serial tag for amperage draw, and perform an amperage test to see that the vibrator is running within specifications. You can also validate amperage draw by bench testing to see if the problem is in the mount or the vibrator itself. Refer to TROUBLESHOOTING section for detailed instructions.



Maximum Operating Temperature

The skin temperature of the vibrator should not exceed 150°F (66°C). If skin temperature exceeds this, consult VIBCO for alternate solutions.

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VIBRATOR INSTALLATION continued

To Obtain Maximum Performance

It is not necessary to operate the vibrator continuously or at maximum output to obtain maximum performance. Timers, etc. should be used to tune the timing of the vibrator for optimum performance and ensure a longer life.

Continuous vs. Intermittent Operation

SPR's are rated for continuous duty. For bulk material bin applications, the vibrator should be used to reduce the material friction and increase flow, not as a feeder. Once the friction is reduced gravity flow will take over and the vibrator should be turned off. The vibrator can only induce as much flow through the hopper as the discharge will allow.

Partially closed discharge gates, rotary air locks, screws conveyors, belt conveyors, etc. restrict the discharge rate of the material, so less time of vibration should be used in these instances. Over-vibration of hoppers with a restricted discharge can pack the material in the hopper, making it even more difficult to move.

Vibrations per Minute (VPM)

VIBCO's SPR line of vibrators can be speed (or frequency) controlled by using a VIBCO speed adjuster (Model SPC for 115 volt units, Model SPC-230V for 230 volt units). The vibrators run at full frequency with direct line current. By connecting the vibrator to the speed adjuster, the frequency can be reduced (NOTE: this will also reduce the force).

Models SPR-20 and SPR-21 are fully adjustable at any time. All other models need to start at full speed and then can be turned down to desired speed (frequency).



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THE VIBRATOR SHOULD NEVER BE OPERATED IF THE DISCHARGE IS CLOSED, UNLESS IT IS BEING USED FOR CLEANING OUT A NEAR EMPTY HOPPER.

DON'T FORGET TO MAIL YOUR WARRANTY CARD!

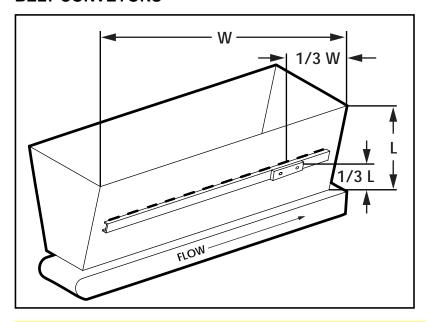


ALTERNATIVE MOUNTING SUGGESTIONS

Bin Configuration & Mounting

These are just some alternate mounting suggestions. For additional suggestions, consult VIBCO Technical Support at 800-633-0032.

BELT CONVEYORS



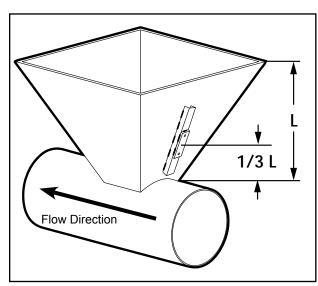
Belt conveyors feed from the front. Vibrator should be placed 1/3 from the front. If 2 vibrators are used, place second one directly opposite 1/3 from the back. Do not operate back vibrator until bin is empty in front and the front vibrator has turned off. For more details, call VIBCO at 800-633-0032.

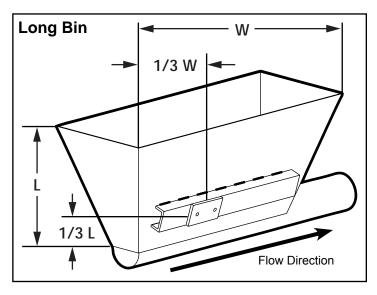


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DO NOT MOUNT VIBRATOR DIRECTLY TO SURFACE OF BIN !!! (IT WILL DAMAGE THE BIN)

SCREW CONVEYORS





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Screw conveyors feed from back. Vibrator should be placed 1/3 from the back. If 2 vibrators are used, place 2nd one directly opposite 1/3 from the front. Do not operate front vibrator until bin is empty in back and the back vibrator has turned off. For more details, call VIBCO at 800-633-0032.

ALTERNATIVE MOUNTING SUGGESTIONS continued

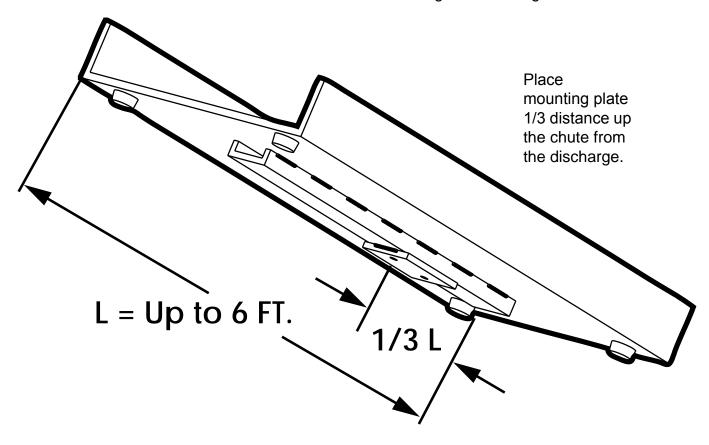
Chutes

REV091-14

In order to successfully move material in a chute, the "angle of repose" of the material has to be known. It can be measured by pouring a cup of the material on a table. The angle between the table and the cone the material makes is the "angle of repose". To move the material in the chute, it should be inclined no less than 1/2 of the "angle of repose" If this cannot be obtained, a feeder is necessary to move the material.

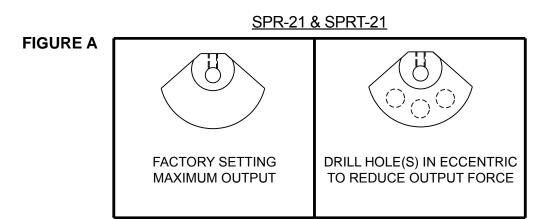
For optimum performance follow these guidelines:

- Force (impact) needed on vibrator is equal to weight of chute + vibrator + maximum amount of material in chute.
- Chutes must have an inclination of at least 10° for vibrators to be able to move the material.
 If inclination is less, the chute has to be made into a feeder. Contact VIBCO for selecting the proper size vibrator.
- Chutes up to 6 ft. long can generally be handled by one vibrator mounted approximately 1/3 from the discharge.
- On chutes over 6 ft. long, two vibrators are needed. One should be placed 18 to 24 inches
 from the discharge. The other approximately in the middle of the chute. Since chutes are very
 sensitive to vibration, provision should be made to move the lower vibrator 6 inches in either
 direction. This could mean the difference between moving or not moving the material.



CHANGING OUTPUT FORCE / ECCENTRIC SETTINGS

SPR-21 and SPRT-21 have a single eccentric weight that produces maximum output. To reduce the output force, drill holes in the eccentric as necessary. VIBCO recommends drilling one small hole at a time and then testing the unit to see if it produces the desired results. Proceed with more or larger hole(s) as needed (**Figure A**).



SPR-20, SPR-40, SPRT-60 and SPRT-80 have dual eccentrics factory set at the maximum output for the vibrator. To reduce the amount of vibration, loosen the set screw that holds the outer eccentric to the shaft and turn the outer eccentric in relation to the inner eccentric. Retighten the set screw. **Figures B&C** show maximum and minimum settings for each unit.

SPR-20 & SPR-40

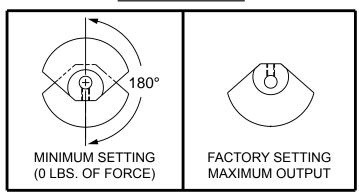


FIGURE B



NOTE: If you reset eccentrics on any model to INCREASE the force of the vibrator, you **MUST** take a new amperage draw reading to ensure your vibrator is still operating within the specified limits.

SPRT-80

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FIGURE C

REV091-14

MINIMUM SETTING (0 LBS. OF FORCE) FACTORY SETTING SPRT-60 MAXIMUM OUTPUT

SPRT-60 & SPRT-80

CHANGING OUTPUT FORCE / ECCENTRIC SETTINGS continued

SPR-60, SPR-80, SPR-60HD, SPR-80HD, SPRT-60HD and SPRT-80HD all have dual eccentrics factory set to the maximum allowable output for continuous duty use.



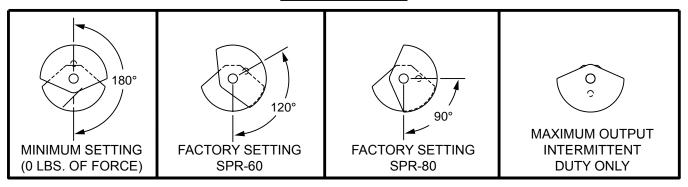
NOTE: These models can only be run intermittently when set to higher than factory set output forces (maximum running time of 30 minutes in any one hour period).

To reduce the force of the SPR-60 and the SPR-80, loosen the set screw that holds the outer eccentric to the shaft and turn the outer eccentric away from the inner eccentric. The less aligned that the two eccentrics are with one another, the less force output produced. Refer to **Figure D** for minimum settings. Retighten the set screw.

To increase the force of the SPR-60 and the SPR-80, loosen the set screw that holds the outer eccentric to the shaft and turn the outer eccentric toward the inner eccentric. The closer in line that the two eccentrics are with one another, the more force output produced. Refer to **Figure D** for maximum settings. Retighten the set screw.

FIGURE D

SPR-60 & SPR-80





NOTE: If you reset eccentrics on any model to INCREASE the force of the vibrator, you **MUST** take a new amperage draw reading to ensure your vibrator is still operating within the specified limits.

To reduce the force of the SPR-60HD, SPR-80HD, SPRT-60HD and SPRT-80HD, remove the cap screw that holds the outer eccentric to the inner eccentric and turn the outer eccentric so that the hole marked #1 aligns with the threaded hole in the inner eccentric (see **Figure E** on next page). Replace the cap screw.

CHANGING OUTPUT FORCE / ECCENTRIC SETTINGS continued

To increase the force of the SPR-60HD, SPR-80HD, SPRT-60HD and SPRT-80HD, remove the cap screw that holds the outer eccentric to the inner eccentric and turn the outer eccentric so that the hole marked #3 aligns with the threaded hole in the inner eccentric (see **Figure E**). Replace the cap screw.

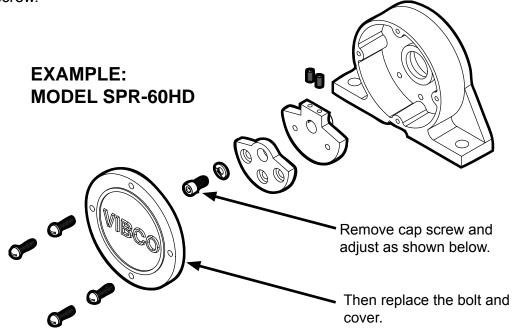
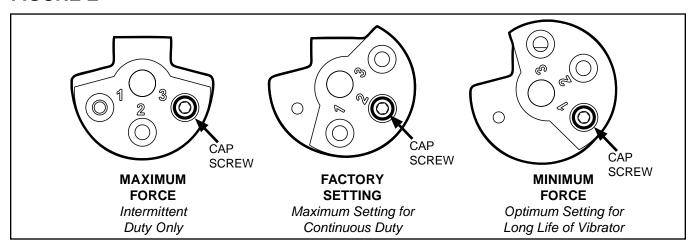


FIGURE E

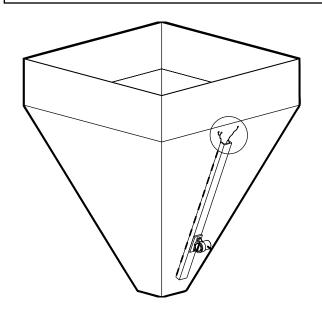




REV091-14

NOTE: If you reset eccentrics on any model to INCREASE the force of the vibrator, you **MUST** take a new amperage draw reading to ensure your vibrator is still operating within the specified limits.

SPWT-21, SPWT-60 and SPWT-80 have single internal eccentrics and are not adjustable. If you open the unit to attempt to reset the eccentrics you will compromise the watertight integrity and void your warranty.

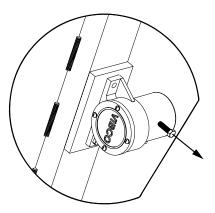


Cracked Bin Shell

Cracked bins are usually due to improper welding, improper mounting of the vibrator to the bin or to high an output force from the vibrator. If cracks have developed on your bin, follow the procedure detailed below to repair the cracks and eliminate any further cracking.

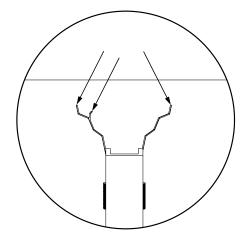
NOTE: that cracks usually start at the ends of the channel iron.

REPAIRING BIN CRACKS

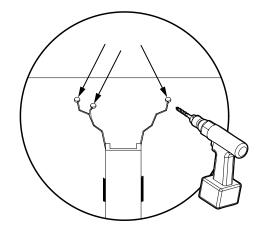


1) Remove the vibrator from the mounting plate.

2) Locate where cracks stop. Take note of any places where the cracks may have branched off. It is very important that you located all the branches of the crack.



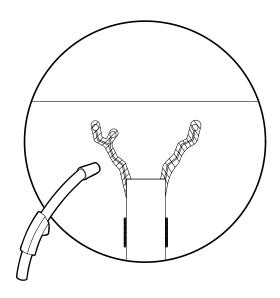
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3) Drill holes at the end of every crack (on every branch). For average size cracks use a 1/8" to 1/4" drill. Remember that it is important is that the drill size be larger than the width of the crack.

HOW TO FIX A CRACK IN YOUR BIN continued



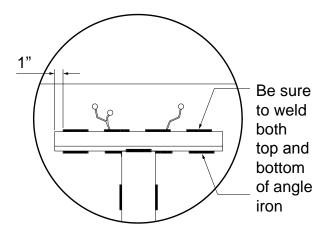
4) Once holes are drilled, weld along all the cracks to the holes and then over the entire hole. Be sure to cover the entire crack and hole to prevent further damage.

At least 4" (10cm) past drill point

Angle Iron

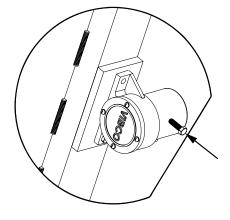
At least 4" (10cm) past drill point

5) Choose a length of angle iron to reinforce the area of the bin where cracking occurred. To determine on the appropriate length, make sure that the angle iron goes at least 4" (10 cm) past the end of the outermost drill points / end of cracks.



6) After choosing an appropriate length of angle iron, weld it in place. Starting 1" (2.5 cm) from the end of the angle iron, weld stitches 3-6" (7.5-15 cm) long, leaving at least 3" (7.5 cm) between the stitches (see Page 8). Be sure to stop welds 1" (2.5 cm) from the end of the angle iron.

7) Now you can remount vibrator on mounting plate. (Refer to Page 9 for proper Vibrator Installation Instructions)



TROUBLESHOOTING

MY MATERIAL STILL ISN'T MOVING!

- 1. Did you put your vibrator in the right location? See Page 6 for proper vibrator placement. Did you mount your vibrator properly? See Page 7 for Mounting Instructions.
- 2. Do you have the right vibrator for the job. Does it provide enough force? 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.
- Check motor continuity, if "open" motor winding is burned or has a short, replace motor. If you
 are unsure of how to check the continuity, call VIBCO Technical Support or consult a licensed
 electrical contractor.

BEARINGS GRIND OR MAKE EXCESSIVE NOISE, VIBRATOR WON'T RUN AT FULL SPEED.

- 1. Are you running the vibrator in a dusty or dirty environment? You may need to switch to an enclosed model SPRT vibrator.
- 2. Are you running the vibrator in a wet or wash down environment? You may need to switch to an enclosed model SPWT vibrator.
- 3. Are you running the vibrator in a high temperature environment? You may need to switch to a fan cooled model SPR or a heavy duty HD model vibrator and install a heat mount.
- 4. Are you running the vibrator continuously? You may need to switch to a heavy duty HD model vibrator.

VIBRATOR STOPS RUNNING

- 1. Check power supply to unit.
- 2. Units are supplied with Internal Thermal Overload Protection (see Page 11). If the winding temperature of the unit exceeds 195°F (90°C), the vibrator will shut down and restart after it cools down. Repeated stops and starts of the vibrator will overload the vibrator motor and will burn out its windings. To protect the vibrator from overloads, install a single phase overload protection in the line. Check to make sure that the vibrator is mounted securely, and that there are no cracks in the bin wall.
- 3. If unit does not restart after cooling down, check motor continuity. If "open" motor winding is burned or has a short, replace motor. If you are unsure of how to check the continuity, call VIBCO Technical Support or consult a licensed electrical contractor.
- 4. If vibrator DOES start after cooling down, take an amperage reading of the vibrator. If amperage is in excess of what is listed on Serial No. & Specs Tag (or chart on Page 11) make sure that the mounting bolts are still secure or look for cracks in your welds or bin wall. (See details below) If your mount is OK, then the vibration may be too intense for the hopper structure. You may need to reduce the intensity (force) of vibration to reduce the amperage draw of the vibrator (Pages 12, 15 17), or reduce the time of vibration to reduce the temperature rise. (Page 12)

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

CRACKS HAVE DEVELOPED ON BIN WALL

The improper welding of a vibrator to bin stiffeners often results in fatigue cracks in the bin. This can be repaired to prevent further cracking by properly welding stiffeners to the bin side. To accomplish this see **WELDING INSTRUCTIONS** on Pages 18-19.

HOW DO I KNOW IF I WELDED EVERYTHING CORRECTLY?

To check if you welded everything correctly see if the mount affects the performance of the vibrator. VIBCO recommends you get a reading of the amperage draw of the vibrator BEFORE it is bolted to the channel iron on your bin. Place the vibrator on any soft material you might have (pillows, seat cushions, etc.) Turn the vibrator on and turn the control box dial to its maximum setting. Take an amperage reading and compare it to the values found on Page 12 (or on the Serial # & Specs Tag on the unit). If the two values match, reinstall the vibrator according the instructions on Page 9 and take another amperage reading while the vibrator is running. If the amperage reading is now still too high then:

- 1) Check that your bolts have been tightened to the torque specified on Page 9.
- 2) Make sure the vibrator has been properly shimmed and stabilized.
- 3) If both of these conditions are satisfied, then reinspect your welds to see if there are any additional cracks. Repair them according to instructions on Pages 18-19.

The vibrator should not be moving excessively when in operation. If you are able to read the Serial # & Specs Tag, then the amount of motion is acceptable. If you cannot, refer to the mounting instructions to fix the problem or consult VIBCO.

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TECHNICAL DATA & DIMENSIONS

TECHNICAL DATA

MODEL		rce pact	_	Bin Capacity Volt Amps PH Speed VPM Encl		Enclosure Adj Speed Option		Weight		dB*			
	lbs	Z	lbs	kg						Option	lbs	kg	
SPR-20	15	67	150	6.7	115/230	0.5/0.25	1	1600	Open	Yes	5	2.2	45
SPR-21	20	89	200	90.7	115/230	0.8/0.4	1	3200	Open	Yes	5	2.2	48
SPR-40	25	111	250	113.4	115/230	1.4/0.7	1	1600	Tot. Encl. &	Yes	7	3.2	45
SPR-60 & 60HD	60	267	600	272.1	115/230	1.5/0.75	1	3200	fan cooled	Partial	7	3.2	48
SPR-80 & 80HD	80	356	800	362.9	115/230	1.7/0.85	1	3200	ian cooled	Partial	9	4.1	50
SPRT-21	20	89	200	90.7	115/230	1.4/0.7	1	3200	Tot. Encl.	Yes	5	2.2	45
SPRT-60 & 60HD	60	267	600	272.1	115/230	1.5/0.75	1	3200	Tot. Encl.	Partial	6	2.7	48
SPRT-80 & 80HD	80	356	800	362.9	115/230	1.7/0.85	1	3200	Tot. Encl.	Partial	7	3.2	50
SPWT-21	20	89	200	90.7	115/230	1.4/0.7	1	3200	Watertight	Yes	7	3.2	45
SPWT-60	60	267	600	272.1	115/230	1.5/0.75	1	3200	Watertight	Partial	7	3.2	48
SPWT-80	80	356	800	362.9	115/230	1.7/0.85	1	3200	Watertight	Partial	7	3.2	50

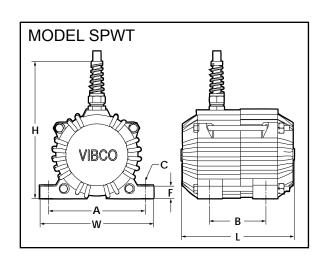
^{*}dB at 3' (1 meter) on A scale

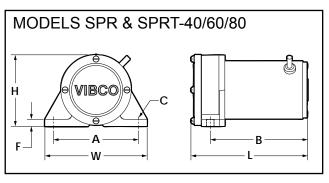
DIMENSIONS

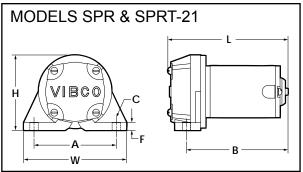
MODEL	Α		В		C*		L		w		Н		F	
WODEL	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
SPR-20, 21, SPRT-21	4	102	4	102	3/8	10	5	128	5	128	3-1/2	89	7/16	12
SPR-40, 60, 80 & HD	5	128	5-7/8	150	3/8	10	7	178	6	153	4-1/4	108	1/2	13
SPRT-60, 80 & HD	5	128	4-1/2	115	3/8	10	5-1/2	140	6	153	4-1/4	108	1/2	13
SPWT-20, 60, 80	4-3/4	121	2-3/4	70	3/8	10	5-3/8	137	5-1/2	140	6-1/2	166	5/8	16

^{*}Bolt Size

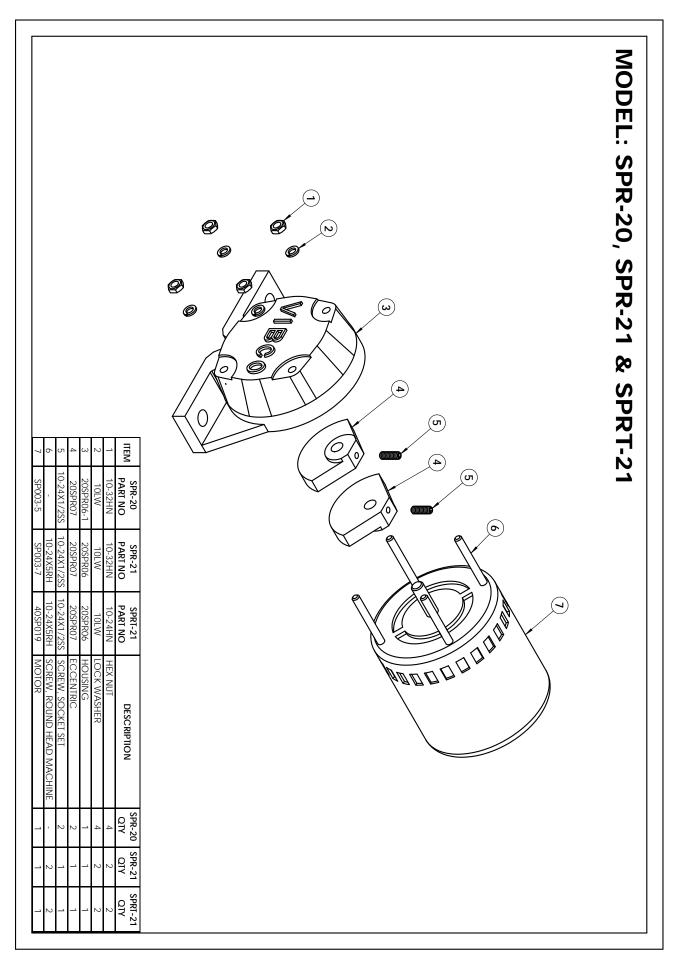
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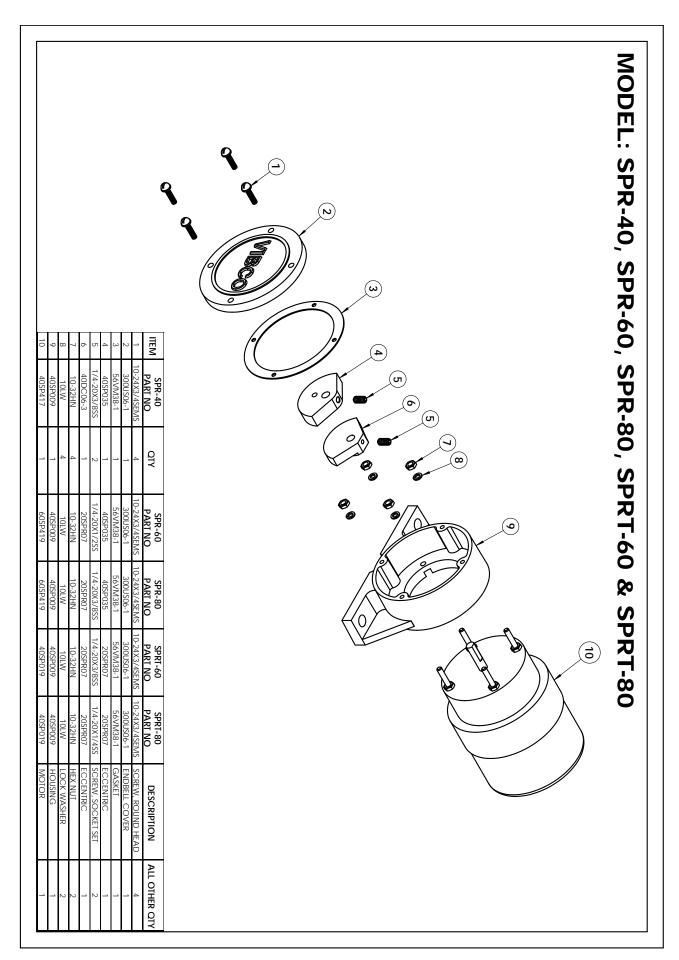


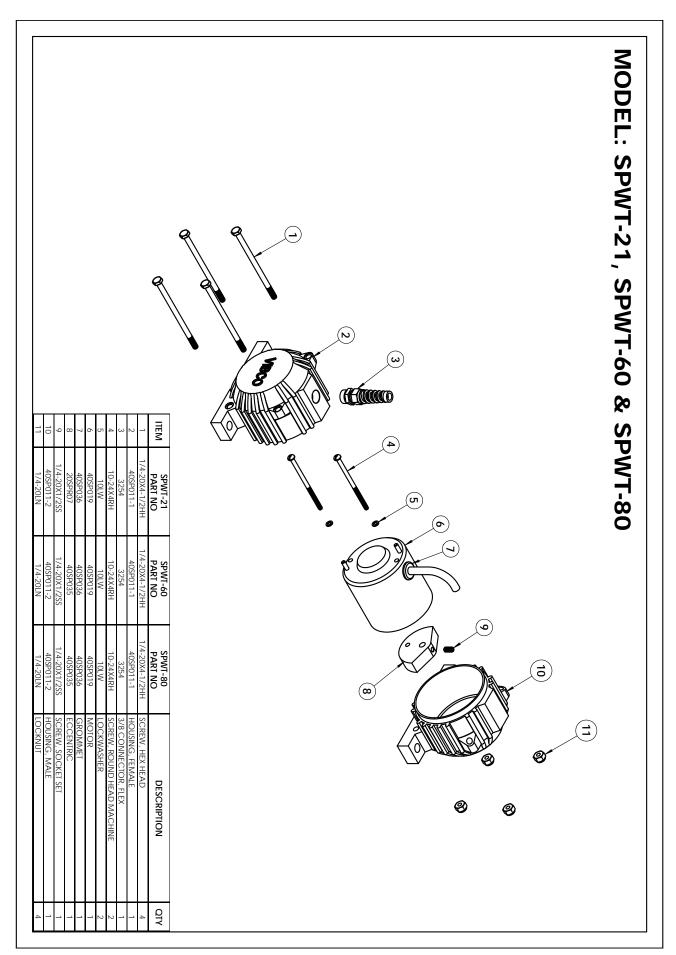
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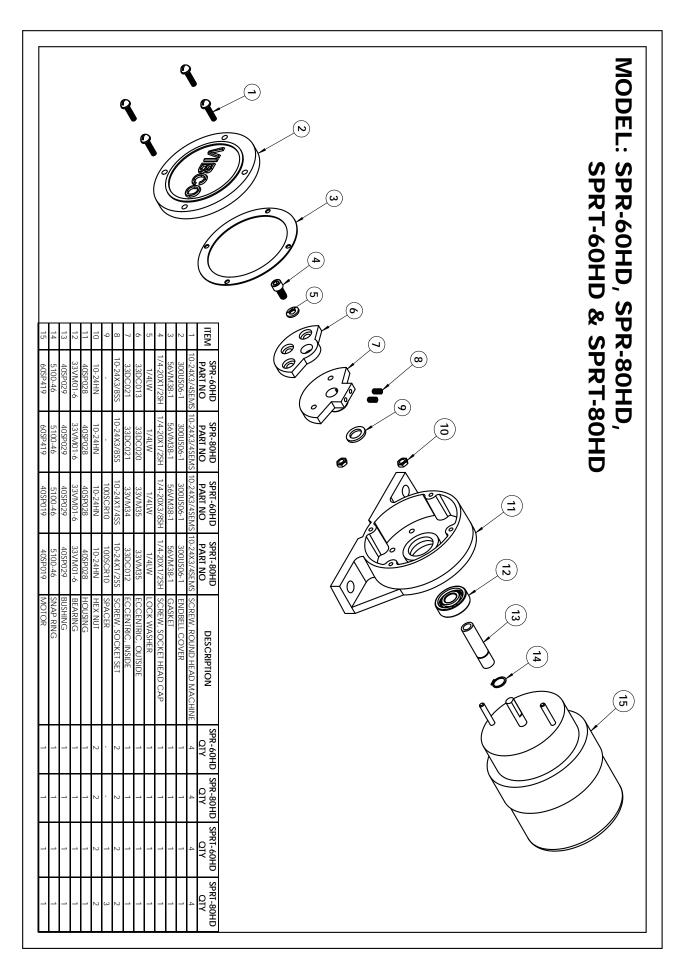


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WARRANTY AND GENERAL INFORMATION

Warranty

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

Errors, Shortages and 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.

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 faxed to you. 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 on packing slip supplied by VIBCO to ensure proper credit.

Orders for equipment built to specifications which vary from VIBCO's standard units are not returnable.

Responsibility

VIBCO cannot be responsible for delays due to strikes, accidents, negligence of carriers or other causes beyond our control.

Freight Claims

Should you receive a shipment from VIBCO which was damaged in transit, file your claim with the carrier immediately. All parts sold by VIBCO are on the basis of F.O.B. Wyoming, Rhode Island.

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.

Price Changes

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Prices are subject to change without notice.

Ordering Spare Parts

Parts can be ordered through authorized distributors or directly from VIBCO. The following data should be provided when ordering:

From vibrator: Model of unit.

From spare parts list: Reference number, part number, description and

quantity required.

Shipping instructions: Specify shipping point and method of shipping.



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