

1/4 to 1/3

VIBCO



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3 VIBRATOR PLACEMENT & FORCE SETTINGS

Place vibrator underneath body a 1/4-1/3 length from front & centered between sills or main beams*. Make sure vibrator clears hydraulic tanks, gas tanks etc., when the body is in down position**.

CUBIC	BODY	BIG BERTHA
YARDAGE	LENGTH	
2 - 8	10 - 12	DC-3500-1500
5 - 10	13 - 14	DC-3500-2500
8 - 16	15 - 16	DC-3500-2700
15 - 30	17 - 40	DC-3500
Reduced force kits avaiable for VIBCO.		

* Vibrator CAN be mounted on the side of dump body. Call or go online for proper side mount specifications.

** Handle can be removed if needed. Removing it will not effect performance. Or exchange for handless model DC-3500-S.

4 PLATES & CHANNEL SELECTION



Channel iron should be 6" wide with custom lengths to fit the specific dump body style. Reference panel 5 to identify which mounting style you have to determine channel length.

The success of Big Bertha™ relies on proper mounting with a plate & channel combo. Plate & Channel Combo



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



VIBCO INSTRUCTION MANUAL



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DUTY CYCLE & OPERATION

Model DC-3500 is rated for:

INTERMITTENT DUTY ONLY

MAXIMUM RUN TIME = 30 sec. (with MINIMUM one (1) minute off time)



Best operation is short 3-5 second ON cycles allowing the unit to spin down and go through a range of frequency. Cycling the ON/OFF times will aid in faster clean out of the dumpbody. Timers are avaiable thru VIBCO to automate this system.

▲ DO NOT EXCEED ▲ 20 MIN RUN TIME IN ANY 60 MIN PERIOD

13 TROUBLESHOOTING

1) Vibrator doesn't start or runs and stops.

- Make sure vibrator is getting power. Check fuses and make sure all connections are properly secured.
- Make sure the vibrator is properly grounded to the frame. If vibrator is not mounted to main frame, such as on a pivoted truck body, make sure body is grounded to main frame.
- The vibrator is designed to ground through the foot. For more positive grounding, use the grounding strap provided in the wiring kit.
- Make sure push button or on/off switch and solenoid are working. If damaged or non functioning, replace.
- Some newer trucks have additional circuit breakers wired in for accessories. Check for hidden circuit breakers and make sure your power is direct to the battery terminal.

2) Vibrator is running slow (loss of RPM). I did a voltage test on the vibrator and it reads less than 11.5 volts:

- Was test done with truck engine running? If not, test again with engine running. If voltage is now above 11.5 volts, vibrator should be operated only when engine is running (or have truck's electrical system checked).
- If voltage is still below 11.5 volts, test voltage at battery. Battery voltage should be a minimum of 13 volts. If less than 13 volts, have truck's electrical system checked.
- If battery voltage is 13 volts or higher, check power wire to vibrator. Wire gauge should be minimum of 4 AWG for lengths up to 50 ft.; 2 AWG for lengths of 51 ft. to 100 ft. NOTE: power cables can deteriorate over time, losing their current carrying capacity.
- Check ground connection of vibrator grounds through foot to dump body. A good ground is critical to proper vibrator operation. Make sure that bottom of vibrator feet and mounting plate are clean bare metal, and corrosion free. If an adequate ground connection cannot be achieved through the foot, a separate grounding strap may need to be installed.
- Check the brushes and change if necessary. The life of brushes is approximately 1,000 hours. Brush life is dependent on the duty cycle.

3) An unusual sound (banging) coming from the vibrator.

- Check the vibrator mounting bolts for tightness. The vibrator could be loose.
- New installations may be too weak. Reinforce mount area immediately by adding stiffeners-angle iron or channel iron.
- Look for cracks in the housing, mounting angle iron or plates. Also look for fatigued or cracked welds. Repair and reinforce immediately.

ADDITIONAL DETAILS AVAILABLE ONLINE AT www.vibco.com

ADJUSTING ECCENTRICS ON DC-3500ADJ*

To change eccentric settings: 1. Unscrew (2) 3/8-16 x 6-1/2 hex head bolts.

- 2. Remove dust cover.
- Pull motor field away from armature assembly.
- 4. Unscrew 3/8-16 x 1-1/4 socket head bolts.
- Remove cover by unscrewing (3) 10-24 x 3/8" screws & using longer screws in (3) threaded holes in mounting cover, turn screws to draw
- motor assembly out of housing
- Loosen (2) 3/8-16 x 1/2 set screws on outer most eccentric and adjust to desired output according to chart at right.
- To reassemble:
 - 1. Put eccentric & armature assembly back onto housing using 3/8-16 x 1-1/4 socket head bolts with disk locks.
 - 2. Make sure motor shaft spins freely before reassembling. If it doesn't, tap front of the mounting cover until it does.
 - Put motor field back on armature, spreading brushes over commutator. NOTE: be sure field pin lines up with of mounting cover holes and terminal port is in center of feet of housing!
 - 4. Put dust cover back on with (2) 3/8-16 x 6-1/2 hex head bolts & tighten evenly to draw back into place.

(6)



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.

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.



For custom mounting applications or any other questions:

800-633-0032

or vibrators@vibco.com



** 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

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