## **Model DC** 12 & 24 Volt Battery Operated

Specifications • Mounting Instructions • Operating Instructions Parts List • Dimensions • Maintenance • Technical Data





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REV295-13

**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.

Thank you for choosing VIBCO, Inc. for your vibration needs. You are now the owner of the finest 12 volt DC battery operated 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:

Serial Number: \_\_\_\_\_

Date of Purchase:

#### TABLE OF CONTENTS Electrical Installation......16 Brush Kit Replacement......17 Parts Lists and Breakdown

#### WARNING LABELS AND SERIAL NUMBER TAGS



## MARNING



Do not operate with counterweight guards removed.

No Opere Con El Contrapest De Protección Removido

Ne pas faire fonctionner si les dispositifs de protection de contrepoids sont enlevés.

#### WARNING!

Do not operate with counterweight guards removed. Whenever the covers are removed make sure that the power is turned off and locked so it cannot be turned on accidentally. **Location:** On body of vibrator.



#### WARNING!

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

Location: Wrapped around end of cord.

	VIE	INC.			
MODEL					
SER. NO.					
VOLTS		AMPS			
PHASE	CY	HP			
RPM	0	DUTY			
WYOMING, R.I., 02898 USA MISSISSAUGA, ONT. L5L1X1, CANADA					

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

DC-3500: Sticker on round motor.

#### MOUNTING INSTRUCTIONS CHECKLIST





□ Determine the length of the channel iron.

following steps and your vibrator should provide you with years of trouble-free service.

- □ Select thickness of vibrator mounting plate and method of mounting.
- □ STITCH Weld mounting plate to channel iron.
- □ Determine where vibrator should be placed on the bin.

The warranty is void if vibrator is not properly installed. During installation follow and check off the

- □ STITCH Weld channel iron to bin.
- Place vibrator on mounting plate. It is important that you *check the mounting plate for any warping*. Secure vibrator firmly.
- □ Install safety chain or wire.
- □ Connect electrical wiring.
- □ FILL OUT WARRANTY CARD!!!

#### **Important Safety Instructions**

When installing vibrator, make sure that the rotary motion of the vibrator is in the direction of flow (the length of the vibrators body should be 90 degrees or perpendicular to the direction of flow). Secure one end of vibrator to the mounting plate using one or two bolts (depending on the model). If mounting plate is warped or bent due to welding, shim the opposite end of vibrator (over-shim slightly) and tighten remaining mounting bolt(s) to 260 ft-lbs. Remove end cover on vibrator and spin shaft with finger, it should spin freely - if not, re-shim vibrator (does not apply to DC-60, DC-500, or DC-3500). Retighten the bolts after the first 10-15 minutes of running, then check them periodically for tightness. When mounting the DC-3500 secure vibrator with one bolt (use Loctite 242 or equal), and lock washer. Shim opposite foot (overshim slightly), then tighten other bolt.



**Note:** A loose vibrator can cause damage to the bin and may also get electrically overloaded, which could cause motor burnout. Be sure to install a safety chain or cable to vibrator. Adhere to any other local, state or federal safety codes that may apply.



For no weld, bolt on installations contact the technical service department at VIBCO at 1-800- 633-0032.

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#### DC-3500/5000 MOUNTING INSTRUCTIONS



#### Flat Bed Dump Trucks and Tandem Trailers

REV295-13

The vibrator should be located underneath the body, preferably 1/4 the body length from the front, or as close to this as possible, and centered between sills or main beams (see Figures 1 & 2). Check to make sure the vibrator clears hydraulic tanks, gas tanks etc., when the body is in the down position. It is important to reinforce the truck body so it will be able to take the vibration created without causing damage. For large dump body trucks, the easiest and most effective way to mount the vibrator is to weld a 4 in. channel iron over at least three cross members. Weld vibrator mounting plate onto the channel iron, positioning the mounting plate on the channel iron over a stiffener (see Figure 3). For small dump body trucks, weld a 6 in. channel between cross members and to body (skip weld to body), and weld the vibrator mounting plate to the middle of the channel iron, over the middle of a stiffener (see Figure 2 & 3). On front mounted telescopic hoist bodies, locate vibrator just outside either one of the long members.



Weld sides and underneath channel to dump body stiffener. Place channel as close to the doghouse as possible.

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#### DC-3500/5000 MOUNTING INSTRUCTIONS



Weld 4 in. channel over at least 3 stiffeners. Then weld vibrator mounting plate to channel.



Weld 4 in. or 6 in. channel between main beams. Then weld sides and underneath of 5/8 in. x 4 in. or 6 in. x 12 in. long mounting plate. If channel is turned with legs to dump body, weld in threaded studs. If channel is turned as shown, use standard bolts.

#### DC-3500/5000 MOUNTING INSTRUCTIONS



For smaller dump bodies *stitch* weld a 6 in. channel between cross members & to body (skip weld to body) & weld mounting plate to middle of channel iron.



Weld 6 in. channel between cross members and to dump body (skip weld to body). Weld vibrator mounting plate to center of channel. Notch channel for mounting bolts or weld in bolts.

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#### OTHER DC MOUNTING INSTRUCTIONS





**Cross Memberless Dump Body Mounting.** Center of vibrator should always be mounted at 1/4 of the body length from the front of the dump body.

the 3/4-10 tapped holes in 1500PF38 mounting plate. Stitch weld mounting plate to underside of channel iron (see Figure 8) starting 1/2" in from the ends leaving approximately 2" between welds.

2. Stitch weld channel iron to dump body starting 1" in from the ends and welding 3"-6" leaving 3" between welds (see Figure 9).





**Heated Truck Body.** Weld the mounting channel between the sills and to the skin of the heated body. Stop welds 1 in. from ends of channel.



Hopper Trucks For Spreading Salt, Sand, Lime, etc. Locate the vibrator approximately 1/3 - 1/2 the overall length from the rear and 1/4 of the overall height of the bin. Add 4 in. channel to the side of the existing stiffener (see Figure 7). Weld mounting plate to the top of channel legs. Or skip weld 1/4 in. x 2-1/2 in. x 2-1/2 in. angle iron between the existing stiffeners and weld mounting plate on top (see Figure 8.)

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#### OTHER DC MOUNTING INSTRUCTIONS

**The Length of the Channel Iron** is determined by the thickness of the bin plate. For 3/16 in. to 3/8 in. thick plate, use 3 ft. to 5 ft. long channel. If the bin plate is under 3/16 in. thick, use channel equal to the length of the bin or at least 6 ft. to 7 ft. long. If bin plate is over 3/8 in. thick use 2 ft. to 3 ft. long channel.



**Trucks With Bottom Dump Hoppers.** Between two bays use 4 in. or 6 in. channel long enough to cover at least 3/4 of each bay. Skip weld the channel in place stopping weld 1 in. from ends. Weld the vibrator mounting plate to the center of the channel, between the two bays.



**Location of Vibrator on Rectangular Bins.** Skip weld 4 in. channel onto sloping side of bin stopping weld 1 in. from ends. Weld vibrator mounting plate to channel 1/4 - 1/3 of the distance from the bottom of the bin to the top of the slope.



**Location of Vibrator on Conical Bins.** Skip weld 4 in. channel onto side of bin stopping weld 1 in. from ends. Weld vibrator mounting plate to channel 1/4 - 1/3 of the distance from the bottom of the bin to the top of the slope.

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OTHER DC MOUNTING INSTRUCTIONS



**Double Hopper.** Weld 4 in. channel to inside slopes of hoppers. Stop welds 1 in. from ends. Weld a 4 in. square piece of tubing between channel. Weld mounting plate to the center of the tubing and add 3/8 in. thick gussets for added strength.



Angle Iron Stiffeners. Stitch weld 1/4 in. x 1-1/4 in. x 1-1/4 in. angle iron to hopper stopping welds 1 in. from ends. Weld vibrator mounting plate to angle iron 1/4 - 1/3 the distance from the bottom of the bin to the top of the slope.





Short Screw Feeder. Stitch weld 4 in. channel to back or side of bin stopping welds 1 in. from ends. Weld vibrator mounting plate as close as possible to feeder.

Long Bin. Stitch weld 4 in. channel 1/3 up the length of the bin side stopping welds 1 in. from ends. Weld vibrator mounting plate to top of channel 1/3 of the overall length of the bin from the front. If 2 vibrators are used mount second vibrator to opposite side as first and 1/3 of the overall length of the bin from the back. Do not run back vibrator until front of bin is empty and front vibrator is turned off.

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**Screw Feeder.** Feeds from front. Stitch weld 4 in. channel 1/3 up the length of the bin side stopping welds 1 in. from ends. Weld vibrator mounting plate to top of channel 1/3 of the overall length of the bin from the back. If 2 vibrators are used mount second vibrator to opposite side as first and 1/3 of the overall length of the bin from the front. Do not run front vibrator until back of bin is empty and back vibrator is turned off.

#### CUSTOM MOUNTING APPLICATIONS

VIBCO's application specialists provide 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.

#### For more custom mounting applications call, email or fax.

#### **OPERATING INSTRUCTIONS**

#### Duty Cycle

VIBCO's 12 and 24 volt DC vibrators are rated for either continuous, intermittent or limited intermittent duty.

Models DC-20, DC-60, DC-100, DC-200, DC-300, DC-450 and DC-500 are rated for **continuous duty**. Be sure to use a continuous duty solenoid (VIBCO part number 1500PF56).

Models DC-700, DC-900 and DC-1600 are rated for **intermittent duty**. Running time for these vibrators should not exceed 30 minutes in any 60 minute period. Continuous duty solenoids (VIBCO part number SW-266) should be used with these units. Drilling holes in the end covers to provide the unit with ventilation can increase the duty cycle. The duty cycle must be determined in each particular application. A temperature test of the field casing can help to determine the duty cycle. Temperature should not exceed 180 degrees Fahrenheit. 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.

Models DC-3500 and DC-5000 are rated for **limited intermittent duty only**. Maximum continuous running time should not exceed 30 seconds, with a minimum of one (1) minute off time. Total running time in any 60 minute period is 20 minutes.

#### Lubrication

All DC vibrator bearings are pre-lubricated to last for the life of the vibrator.

#### ADJUSTING ECCENTRICS

Models **DC-20**, **50**, **60**, **450**, **500**, **700** have a fixed force settings and cannot be adjusted. **DC-100** has a single end for adjustment as shown below. **DC-200**, **DC-300**, **DC-900** and **DC-1600** have eccentrics on both ends of the motor. Setting 3 is the maximum and is the rated force output. Setting 2 is the standard and is approximately 2/3 of the maximum force output. Setting 1 is approximately 1/2 of the maximum force output.



To change the eccentric setting, remove both end covers and the eccentric screws, place the eccentrics at the desired setting and replace the screws and end covers (see example) Be sure to set the eccentric on both sides of the vibrator to the same setting (see Figures 20 & 21).

#### ADJUSTING ECCENTRICS



#### CHANGING/ADJUSTING ECCENTRICS DC-3500 & DC-5000

Model DC-3500 also has adjustable eccentrics. For reference turn to page 14 for more detail.

#### To change these eccentrics:

- 1. Unscrew (2) 3/8-16 x 6-1/2 hex head bolts.
- 2. Remove dust cover.
- 3. 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.
- 6. Loosen (2) 3/8-16 x 1/2 set screws on outer most eccentric and adjust to desired output according to chart on page 13.

#### <u>To reassemble:</u>

- 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.
- 3. Put motor field back on armature, spreading brushes over commutator. NOTE: be sure field pin lines up with center 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.



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#### ELECTRICAL INSTALLATION

#### DC-20, DC-50,DC-60 JUNIOR™

The DC-20 vibrator is a low amperage unit that can be wired directly through a toggle switch. One lead connects to positive, the other to negative. One of the leads can be connected to the body on body grounded applications. To simplify installation, wiring kit number WK-3 is available and consists of:

(1) SPST	On/Off Toggle Switch
(30 ft.) 16 MTW	Wire
(2) BSV14X-L	#16 Butt Splices
(2) PV14-10R-M	Ring Terminal

Refer to Wiring Diagram 1.

#### DC-100, DC-200, DC-300, DC-450, DC-500 BULLDOG™, DC-700, DC-900 & DC-1600

These vibrators require a master current circuit, rated for the vibrators operating current and pilot circuit. One lead connects to positive, the other to negative. One of the leads can be connected to the body on body grounded applications. To simplify installation two wiring kits are available. WK-1 includes a maintained contact toggle switch, and WK-2 includes a momentary contact push button switch. The wiring kits consist of:

(1) SPST	On/Off Toggle Switch (WK-1 only)
(1) 1500PF55	Push Button Switch (WK-2 only)
(1) 1500PF56	Solenoid
(30 ft.) 10 MTW	Wire
(2) PV10-56R-M	Ring Terminals
(2) BSV10X-L	#10 Butt Splices
(20 ft.) 16 MTW	Wire
(4) PV14-10R-M	Ring Terminals
(1) PV14-56R-M	Ring Terminal

Refer to Wiring Diagram 2.

#### DC-3500

The DC-3500 requires a master current circuit and a pilot circuit. The DC-3500 is a body grounded unit. Only one power lead is necessary. The vibrator comes complete with the wiring and mounting hardware needed for installation which includes:

(1) CB12V	Circuit Breaker	(1) 1500PF56	Solenoid
(1) 1500PF55	Push Button Switch	(34 ft.) 4 AWG	Wire
(3) P4-56R	Ring Terminals	(1) PV14-56R-M	Ring Terminal
(20 ft.) 16 MTW	Wire	(2) 3/4LW	Lock Washers
(3) PV14-10R-M	Ring Terminals	(1) 1500PF38	Mounting Plate
(2) 3/4-10X2-1/4HH	Mounting Bolts	(2) N-7	Nylon Cable Brackets
(1) 10-24X3/8RH	Round Head Screw	(1) 10-24HN	Hex Nut
(12 ft.) 4AWGX12	Wire Assembly		

Note: For battery to vibrator distances greater than 50 ft. use 2 AWG Wire.

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#### ELECTRICAL INSTALLATION PROCEDURE

The electrical hook-up consists of two circuits, a master circuit and a pilot circuit (except DC-20, see previous page). The master circuit supplies the motor with current and must be able to carry the vibrators rated amperage. The pilot circuit is the controlling circuit, and carries only a small current between the switch on the dashboard and the solenoid, connecting or disconnecting the master circuit. The supplies needed for hooking up each model are listed on the previous page.

Mount the solenoid in a convenient location. Note that the solenoid grounds through its body, so make sure that it is mounted to a well grounded surface.

Cut off enough large cable to run from the vibrator to one of the solenoids large terminals. On dump bodies, be sure to guide cable around the pivot so that it will not be pinched by the beds movement.

Run the balance of the large cable from the other large terminal to the positive battery terminal (if the truck is grounded from the positive terminal, connect cable to the negative battery terminal).

Select a convenient location on the truck dashboard for the switch. Using the small cable, connect one terminal on the switch to the small terminal on the solenoid (on solenoids with two small terminals, connect to the terminal marked "S"). Run another length of small cable from the other switch terminal to a power source. This cable can be connected to the ignition switch, so that when the ignition is turned off, the vibrator cannot be operated (see figure 1).

#### **NOTE:** Warranty will be void if circuit breaker is not installed.

#### **BRUSH KIT REPLACEMENT**

Model Number	Brush Kit	Parts in Kit Brushes, Caps & Accessories	Brush Length Replacement
DC-900 DC-1600	BK-003	(2)900-12-1B (2)900US10	5/16" or less
DC-100 DC-200 DC-300 DC-500	BK-006	(2)33DC014 (2)33DC016	3/8" or less
DC-450T DC-700	BK-009	(2)300US60-15 (2)300US59-13	5/16" or less
DC-3500 DC-5000	BK-010	(4)1500PF41 (2)1500PF42 (2)1500PF43 (4)1500PF44 (2)1500PF45 (2)1500PF46	5/16" or less



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#### WIRING DIAGRAMS



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TYPICAL SAND/SALT SPREADER WIRING

#### OVERLOAD CIRCUIT BREAKER INSTALLATION

#### For DC-3500 "Big Bertha" Dump Body Vibrators

The CB12V (figure 22) thermal overload circuit breakers are designed to be used in the main circuit of VIBCO's DC-3500 dump body vibrator to prevent operators from running the vibrator in excess of its maximum continuous running time of 30 seconds, which can cause premature failure. By wiring a push button to a fused ignition controlled power source, vibrator cannot be operated unless ignition switch is on.

When the CB12V is installed as shown (see Wiring Diagram 4), attempting to operate the vibrator for longer than 30 seconds will cause the circuit breaker to open, shutting down the vibrator. The circuit breaker will automatically reset in approximately 2 minutes.



NOTE: WARRANTY WILL BE VOID IF CIRCUIT BREAKER IS NOT INSTALLED!



#### TROUBLESHOOTING

1.) Vibrator doesn't start.

Make sure vibrator is getting power. Check fuses and make sure all connections are properly secured.

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.

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 in proper working order. If damaged or non functioning, replace.

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

Measure motor voltage. If less than 12 volts DC, wire size should be increased.

Check the brushes and change if necessary. The life of the brushes is approximately 1,000 hours. The brush life is dependent on the duty cycle.

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

Check the vibrator mounting bolts for tightness.

Check the mounting structure.

New installations may be too weak. Reinforce mount area immediately by adding stiffeners-angle iron or channel iron.

In existing installations look for cracks in mounting angle iron or plates. Also look for fatigued or cracked welds. Repair and reinforce immediately.

#### **DIMENSIONAL DATA**

	A	1	В		С	*	L		W		н		F		S	;
Model	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
DC-20	4	102	4-1/4	108	3/8	10	5	128	5	128	3-1/2	89	3/8	10	-	-
DC-50	4	102	4-13/16	123	3/8	10	5-5/8	143	5	128	3-1/2	89	3/8	10	-	-
DC-60	3-5/8	93	1-5/16	34	1/4	7	6-3/8	162	5	128	3-1/4	83	3/8	10	-	-
DC-100	5	128	5-3/8	137	3/8	10	6-3/4	172	6	153	4-1/4	108	7/16	12	-	-
DC-200	3	77	5-5/8	143	5/16	8	8-7/8	226	4-1/8	105	5	128	3-5/8	93	-	-
DC-300	3	77	5-3/4	147	5/16	8	9	229	4-1/8	105	5	128	3-5/8	93	-	-
DC-450T	3-1/2	89	6-1/2	166	1/2	13	8-1/4	210	4-7/8	124	4-1/8	105	3-7/8	99	-	-
DC-500	5-1/4	134	4-1/2	115	7/16	12	9	229	6-1/4	159	5-1/2	140	13/16	21	-	-
DC-700	4-1/2	115	5-5/8	143	1/2	13	8	204	5-3/4	147	5	128	5-1/16	129	-	-
DC-900	3-1/2	89	6-3/4	172	1/2	13	11-1/8	283	5-1/2	140	6-1/4	159	4-5/16	110	-	-
DC-1600	4-1/2	115	7	178	1/2	13	11-1/4	286	5-5/8	143	6-1/4	159	5-1/8	131	-	-
DC-3500	8-1/2	216	9-1/4	235	3/4	20	12	305	10	255	9-1/2	242	1-3/8	35	7-3/8	188
DC-5000	8	204	2	51	5/8	16	13-1/2	343	10-3/4	274	6-13/16	174	1-1/2	39	-	-

#### \*Bolt Size

Note: Data and dimensions subject to change without notice.



#### **TECHNICAL DATA**

	Force	Impact	Volt	Amne*	VPM	Weig	ht	dB**	Duty Cycle	
Model	lbs	N	VOIL	Amps*	VPIVI	lbs.	kg.	uБ		
DC-20	20	102	12 & 24 DC	3.7	3500	4.5	2.0	68	CONT.	
DC-50	50	223	12 & 24 DC	3.0	3600	4.5	2.0	71	CONT.	
DC-60	85	378	12 & 24 DC	3.0	4000	6.0	2.7	68	CONT.	
DC-100	100	445	12 & 24 DC	12.0	4000	10.2	4.6	72	CONT.	
DC-200	300	1334	12 & 24 DC	14.0	4000	15.5	7.0	73	CONT.	
DC-300	350	1557	12 & 24 DC	16.0	4000	15.5	7.0	74	CONT.	
DC-450T	400	1780	12 & 24 DC	22.0	7000	14.5	6.5	75	CONT.	
DC-500	450	2005	12 & 24 DC	16.0	4000	17.0	7.7	73	CONT.	
DC-700	700	3115	12 & 24 DC	25.0	6000	18.8	8.5	75	INT.	
DC-900	600	2669	12 & 24 DC	30.0	6000	27.0	12.2	78	INT.	
DC-1600	1000	4450	12 & 24 DC	32.0	5000	30.0	13.6	82	INT.	
DC-3500	3500	15572	12 & 24 DC	60.0	4000	36.0	16.3	70	SPECIAL	
DC-5000	5000	22245	12 & 24 DC	70.0	4000	75.0	34.0	72	SPECIAL	

\*Amps shown for 12 Volt DC (24 volt amps 1/2 of 12 volts, except DC-3500 & 5000)

\*\*Decibel on A-scale at 3' (1 meter)

Note: Data and dimensions subject to change without notice.



## **NOTE:** For more information visit VIBCO online at:

### www.vibco.com







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Model: DC-200		(7)29)1	4224235 125 <sup>17</sup> 125 <sup>17</sup>	
	115 C	SE-1740	CABLE CONNECTOR	RTY. 1 2
(1)29	2 3 4 5		SCREW, SOCKET SET LOCKWASHER SCREW, ROUND HEAD MACHINE, W/LW&PATCH	8 2 13
$(13)^{17}^{6}$ $(27)^{26}$ $(3)^{10}^{10}^{10}^{10}$	6 7 8* 9* 10 11	10-24X1/2SS 100SCR10 16/3 3M-Y 33DC003 33DC011	SPACER SO CORD (A.I.W.) WIRE NUTS ARMATURE (12V)	8 2 6 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
23 24 24 0	12 13 14 15	33DC012 33DC013 33DC014 33DC016	ECCENTRIC, INSIDE ECCENTRIC, OUTSIDE BRUSHES BRUSH CAPS	2 2 2 2 2
	16* 17 18 19	33DC017 33DC021 33DC025 33VM20	BRUSH CAP PROTECTOR FIXED ECCENTRIC FIELD DC	2 2 1
	20 21 22*	33VM21-1 33VM21-2 DS	COVER GASKET CONDUIT BOX COVER DUCT SEAL .12	1 1 25 LB
	23 24 25	33VM22P 33VM23R 5/16-18LN	RUBBER GASKET LOCKNUT	2 2 3
	26 27 28 29	5/16-18X6-1/2HH 1/4-20X7HH 5262 33VM01-6	SCREW, HEX HEAD CAP 1/2 IN. SEALING RING	1 2 1 2
*NOT SHOWN	30	875375	GROMMET (9600K47)	1

Aodel: DC-300	27			
	ITEM #	PART #	DESCRIPTION	QTY.
	1	SE-1740	CABLE CONNECTOR	1
	2	041	O-RING	2
	3	1/4-20LN	LOCKNUT	2
	4	1/4-20X1/2SH	SCREW, SOCKET HEAD CAP	2
	5	1/4-20X1/2SS	SCREW, SOCKET SET	8
	6	1/4-20X7HH	SCREW, HEX HEAD CAP	2
	7	10-24X9/16RH	SCREW, ROUND HEAD MACHINE	8
6 <sup>25</sup>	8	100SCR10	SPACER	2
	9*	3M-Y	WIRE NUTS	2
195	10	33DC003	ARMATURE (12V)	1
	11	33DC004	HOUSING	2
	12	33DC007	END COVER	2
	13	33DC012	ECCENTRIC, INSIDE	2
	14	33DC014	BRUSHES	2
	15	33DC015	BRUSH HOLDERS	2
	16	33DC016 33DC017	BRUSH CAPS BRUSH CAP PROTECTOR	2
1 Solor				
A light of	18	33DC020		2
	19	33DC021	FIXED ECCENTRIC	2
	20	33DC025	FIELD DC	1
and the second	21	33VM20		1
•	22	33VM21-1		1
✓	23 24*	33VM21-2 5/16-18LN	CONDUIT BOX COVER LOCKNUT	1
	24*			
		5/16-18X6-1/2HH 5262		1
	26		1/2 IN. SEALING RING	1
	27	33VM01-6		2
	28	8-32X1/2SEMS	SCREW, RD HD MACHINE W/LW & PATCH	4
	29	875375	GROMMET (9600K47)	1
*NOT SHOWN	30*	DS	DUCT SEAL	.125 LB



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#### Model: DC-500

#### Begin Serial #: 030593

ltem No.	Part No.	Description	No. Req.
1	1/4-20LN	LOCK NUT	4
2	1/4-20X5-1/4SH	SCREW, SOCKET HEAD CAP	2
3	1/4SW	SEAL WASHER	8
4	1/4-20X1/4SS	SCREW, SOCKET SET	8
5	100SCR10	SPACER	11
6	110-1996-100	PLASTIC CORD COVER (12V)	10FT
		(24V)	5FT
7	5331	CABLE CONN. STRGT. LIQUIDTITE	1
8	140	HOSE CLAMP (DIXON)	1
9	875375	GROMMET (9600K47)	1
10	33DC003	ARMATURE (12V)	1
	33DC026	ARMATURE (24V)	1
11	33DC014	BRUSHES	2
12	33DC016	BRUSH CAPS	2
13	33DC025	FIELD DC	1
14	40DC03	HOUSING MACHINING (MALE)	1
15	40DC04	HOUSING MACHINING (FEMALE)	1
16	40DC06-1	ECCENTRIC (DC-500)	4
17	1/4-20X6-1/2HH	SCREW, HEX HEAD CAP	4
18	40DC11	FLANGE COVER, (WITH MOTOR)	1
19	156	O-RING (VITON)	1
20	6201LLB-C3	BEARING	2
21	7/16FW	WASHER, FLAT	4
22	7/16LW	LOCKWASHER	4
23	7/16-14HN	HEX NUT	4
24	7/16-14X2-1/2SH	SCREW, SOCKET HEAD CAP	4
25	1/4BW	BELLVELLE WASHER	2
26	5000-125	SNAP RING	2
27	100SCR05-6	SPACER	2
28	40DC11C	FLANGE COVER W/CORD RELIEF	



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#### 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 faxed to you. <u>Use this as your packing slip</u>. Return <u>shipping must be prepaid</u>. 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 foot of housing:	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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