Thank you for choosing a VIBCO BIG BERTHA™ DUMPSODY VIBRATOR!

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.

1. START

THANK YOU FOR CHOOSING A VIBCO BIG BERTHA™ DUMPSODY VIBRATOR!

2. MOUNTING INSTRUCTIONS CHECKLIST

The warranty is void if vibrator is not properly installed. During installation follow and check off the following steps and your vibrator should provide you with years of trouble-free service.

- Determine vibrator placement on dump body.
- Select thickness of mounting plate.
- Determine length of channel iron.
- STITCH weld mounting plate to channel iron.
- STITCH weld channel iron to dump body.
- Place vibrator on mounting plate.

Check the mounting plate for warping. Secure firmly.
- Install safety chain or wire.
- Connect electrical wiring.
- Fill out warranty card!!!!

DON’T FORGET TO MAIL IN YOUR WARRANTY CARD!!

3. VIBRATOR PLACEMENT & FORCE SETTINGS

Place vibrator underneath body a 1/4-1/3 length from front & centered between slits or main beams*.

Make sure vibrator clears hydraulic tanks, gas tanks etc., when the body is in down position**.

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

CAUTION:
- Be sure surface is smooth, flat & free of any debris.
- DO NOT run unit unless bolted down!

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.

FOR DUMP BODIES WITH CROSS MEMBERS

- STITCH weld a 6 in. channel between cross members & to body (skip weld to body) & weld mounting plate to middle of channel iron.
- (unheated) STITCH weld a 4 in. channel iron, inverted, over a minimum of 3 to 5 cross members & weld mounting plate to middle of channel iron. Be sure unit is directly over intersection of stiffener & channel iron.

FOR CROSS MEMBER LESS DUMP BODIES

- Drill 13/16" holes in channel aligned with tapped holes in mounting plate. STITCH weld mounting plate to underside of channel iron starting 1/2" in from the ends leaving approximately 2" between welds. STITCH weld 6 in. channel 4" to 6" long, centered on the dumpbody 1/4 of the body length from the front of the dump body.

END VIEW

5. MOUNTING STYLE

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.

FOR DUMP BODIES WITH CROSS MEMBERS

Use channel iron, NOT angle iron to mount!

A warped mounting plate can cause damage to the vibrator housing. When mounting, secure vibrator with one bolt (use Loc-tite 242 or equal) & lock washer. Shim opposite foot (overshim slightly), then tighten the other bolt.

Be sure surface is smooth, flat & free of any debris.

Use channel iron, NOT angle iron to mount!

A warped mounting plate can cause damage to the vibrator housing. When mounting, secure vibrator with one bolt (use Loc-tite 242 or equal) & lock washer. Shim opposite foot (overshim slightly), then tighten the other bolt.

Always install safety cable or chain.
Mount one end to the vibrator and the other to the hopper or bin above the vibrator.

TORQUE = 260 ft-lbs.

Make sure the vibrator is secured tightly. Retighten after the first 10 -15 minutes of operation & check periodically to maintain proper tightness.

Check those bolts for tightness.

6. STITCH WELD

STITCH WELDS SHOULD BE 2’ LONG LEAVING EACH END AT LEAST 3” BEYOND THE CROSS MEMBER.

Always use mounting plate & channel.

7. BOLTING PROCEDURE

Use channel iron, NOT angle iron to mount!

A warped mounting plate can cause damage to the vibrator housing. When mounting, secure vibrator with one bolt (use Loc-tite 242 or equal) & lock washer. Shim opposite foot (overshim slightly), then tighten the other bolt.

Be sure surface is smooth, flat & free of any debris.

Always install safety cable or chain.
Mount one end to the vibrator and the other to the hopper or bin above the vibrator.

Always install safety cable or chain.
Mount one end to the vibrator and the other to the hopper or bin above the vibrator.

8. RESTRAINT

Check those bolts for tightness.

CAUTION:
- A warped mounting plate can cause damage to the vibrator housing. When mounting, secure vibrator with one bolt (use Loc-tite 242 or equal) & lock washer. Shim opposite foot (overshim slightly), then tighten the other bolt.
- Be sure surface is smooth, flat & free of any debris.
- DO NOT run unit unless bolted down!

9. ELECTRICAL INSTALLATION

Grounding strap supplied w/wiring kit

110 ft-lbs Power Nut Stud Nut

DC-3500 Vibrator

Circuit Breaker

CB12V

To Ignition Switch

Controlled Power Source (Fused)

Solenoid

4 AWG Wire

Grounding strap supplied w/wiring kit

110 ft-lbs Power Nut Stud Nut

DC-3500 Vibrator

Circuit Breaker

CB12V

To Ignition Switch

Controlled Power Source (Fused)

Solenoid

4 AWG Wire

Battery 12 Volt DC

INSTALL PUSH BUTTON ON PANEL

SAFETY CABLE

BA

X

PILOT CIRCUIT REQUIRED

POWER CABLE

MASTER & PILOT CIRCUIT REQUIRED (wiring kit incl.).

NOTE! WARRANTY VOID IF CIRCUIT BREAKER NOT INSTALLED!

IF CIRCUIT BREAKER OPERATES MORE THAN 30 SECONDS, CIRCUIT BREAKER WILL OPEN & SHUT IT DOWN. IT WILL AUTOMATICALLY RESUME IN APPROX. 2 MINUTES.

800-633-0332 • vibrators@vibco.com • www.vibco.com

Rev199-15

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

ADDITIONAL DETAILS AVAILABLE ONLINE AT www.vibco.com
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 the bottom of the 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.

3) An unusual sound (banging) coming from the vibrator.
   - Check the brushes and change if necessary. The life of brushes is approximately 1,000 hours. Brush life is dependent on the duty cycle.
   - Check ground connection of vibrator — grounds through foot to dump body. A good ground is critical to proper vibrator operation. Make sure that the bottom of the 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) Pull motor field away from armature assembly.
4) Loosen (2) 3/8-16 x 1/2 set screws on outer most eccentric and adjust to desired output according to chart at right.
5) Remove cover by unscrewing (3) 10-24 x 3/8” screws & using longer screws.
6) Put eccentric & armature assembly back onto housing using 3/8-16 x 1-1/4 socket head bolts with disk locks.

Adjusting Eccentrics on DC-3500ADJ*

*NOTE: Eccentric set on DC-3500ADJ - adjustable eccentric. All may be purchased separately.

For custom mounting applications or any other questions:

800-633-0032 • vibrators@vibco.com

ADDITIONAL DETAILS AVAILABLE ONLINE AT www.vibco.com