

HCP Vibrators

Operation, Maintenance and Troubleshooting

NAVCO[®] HCP Vibrators are supplied with a wedge shaped "dovetail" male mounting head. Most covered hopper cars are equipped with a compatible female bracket. Additional female brackets are also available from **NAVCO**[®]. The HCP Vibrator is mounted by simply inserting the male wedge into the female bracket. Due to **NAVCO**[®]'s free ride design, the vibrator is free to move in the mount and since the wedge mount does not interlock, the vibrator can be removed without tools.

An automatic or manual lift cart is available to make installation nearly effortless. See bulletins 4000.402, 403 for details.

Vibrator Rebuilds

HCP Vibrators may be rebuilt and restored to like new condition. For repair, HCP vibrators should be returned to **NAVCO**[®] without the mounting head. When maintained properly, HCP vibrators often see 15 years or more of heavy use before restoration is needed.

Universal Mounting Bracket

The dovetail bracket is installed on a railcar to allow mounting of any size HCP. Universal Dovetail Bracket Part # B-329 is shown at right.

Air Control Connection

CAUTION: All vibrators must be installed with an inline lubricator. All units must also be installed with a filter and regulator.

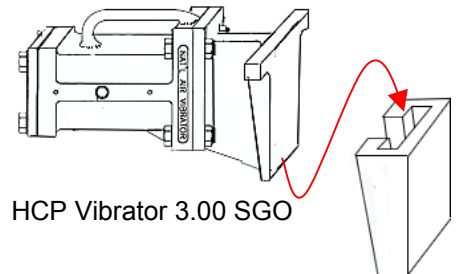
CAUTION: Quick disconnect couplings (when disconnected) allow foreign materials to enter the air line and can damage the vibrator. Proper connection is detailed in Diagram 1.

Air Control Instructions

- 1) Install air control package. (See Diagram 1)
- 2) Fill the lubricator with SAE 10, or lighter, non-detergent oil. (See oil on bulletin 4000.503)
- 3) Set the pressure regulator to 50 PSI.
- 4) Open Valve.
- 5) Adjust the lubricator to approximately 10 drops of oil per minute (see FRL instruction on bulletin 4000.503).
- 6) Allow vibrator to operate for 5 minutes.
- 7) Inspect and retighten all mounting fasteners and air line connections.
- 8) Adjust air regulator for the lowest pressure that will give the desired material flow. (not to exceed 60 PSI)
- 9) Periodically refill oil reservoir to assure lubrication of vibrator at all times.

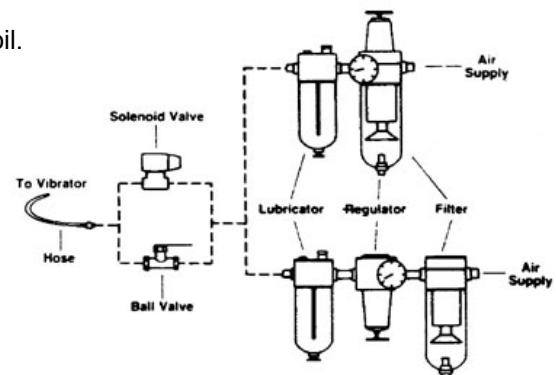


HCP Manual Lift Cart



HCP Vibrator 3.00 SGO

Universal Dovetail Bracket B-329



NOTE: All vibrators must be installed with an inline lubricator. All units must also be installed with a Filter and Regulator.

Diagram 1

Maintenance and Troubleshooting

Maintenance:

- 1) Check automatic lubricator and add SAE 10 or lighter oil if needed.
- 2) Check to see that air pressure is correctly set for most efficient operation. (not to exceed 60 PSI)
- 3) If filter is installed in system, drain to remove contaminants (water, scale, etc.).
- 4) Check all air connections and tighten if necessary.
- 5) Tighten any bolts that may have loosened over time.
- 6) If vibrator is to be shut off for long periods of time (maintenance/plant shut down) be certain the vibrator is well lubricated.

Trouble-Shooting:

- 1) Vibrator will not start:
 - a. Check to be sure that quick-opening operating valve is properly installed.
 - b. Vibrator should be within 10-12 feet of operating valve.
 - c. Be sure vibrator has adequate air pressure and volume available.
 - d. Check for broken or missing spring on horizontally mounted units.
- 2) Vibrator is sluggish and slow to start:
 - a. Check for adequate lubrication.
 - b. Check for leaking air line or defective operating valve.
 - c. Check air supply for proper pressure and volume.
 - d. Scale or other contaminants may need to be removed from the interior.

Conditional Warranty

All **NAVCO**[®] HCP Vibrators are warranted for twelve (12) full months from the date of purchase. **NAVCO**[®] will repair or replace any portion of the vibrator proven defective in quality or workmanship. (See Bulletin 4000.508)

The following conditions will determine warranty credit:

- 1) All vibrators must be installed with an inline lubricant.
- 2) All vibrators must be used with an inline Filter and Regulator.
- 3) All vibrators must be properly installed according to instructions.
- 4) All vibrators must be free of signs of abuse, misuse or contamination of chamber by foreign material.
- 5) **Vibrators must not be disassembled by customer.**

To obtain credit, vibrators must be returned to NAVCO[®] freight *prepaid*. NAVCO[®] will prepay return freight on vibrators under warranty. *Non – warranted repairs will be returned 'collect on delivery'*. NAVCO[®] will provide a list of repairs and an estimate of repair cost if applicable. Repairs are made upon acceptance of this cost.

**For more information, help with trouble-shooting, or warranty/repair questions,
please call toll free: 1 (800) 231-0164**



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