OPERATION AND PARTS MANUAL

SVA-SERIES
VIBRATOR MOTOR

MODEL SVA-1
MODEL SVA-2
MODEL SVA-2E
MODEL SVA-3
MODEL SVA-3E

Revision #1 (06/13/07)

To find the latest revision of this publication, visit our website at: www.stowmfg.com

THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.
CALIFORNIA — Proposition 65 Warning

Engine exhaust and some of its constituents, and some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks.
- Cement and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: **ALWAYS** work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.
Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow the respiratory precautions mentioned above.

**WARNING**
Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheet and/or consult your employer, the material manufacturer/supplier, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturers or suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet cutting is feasible. When the hazards from inhalation of dust, mists and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by NIOSH/MSHA for the materials being used.
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**NOTE**

Specifications and part numbers are subject to change without notice.
PARTS ORDERING PROCEDURES

When ordering parts, please supply the following information:

- Dealer account number
- Dealer name and address
- Shipping address (if different than billing address)
- Return fax number
- Applicable model number
- Quantity, part number and description of each part
- Specify preferred method of shipment:
  - FedEx or UPS Ground
  - FedEx or UPS Second Day or Third Day
  - FedEx or UPS Next Day
  - Federal Express Priority One
  - DHL
  - Truck

Note: Unless otherwise indicated by customer, all orders are treated as “Standard Orders”, and will ship within 24 hours. We will make every effort to ship “Air Shipments” the same day that the order is received, if prior to 2PM Pacific Standard Time (PST). “Stock Orders” must be so noted on fax or web forms.

Here’s how to get help...

Please have the model and serial number on hand when calling.

STOW MAIN OFFICE
18910 Wilmington Ave. 800-421-1244
Carson, CA 90746 FAX: 310-537-3927
Email: stow@stowmfg.com
Internet: www.stowmfg.com

SALES DEPARTMENT
310-661-4242 Fax: 310-604-9237
877-289-7669 (877-BUY-STOW)

PARTS DEPARTMENT
800-427-1244 FAX: 800-672-7877
310-537-3700 FAX: 310-637-3284

SERVICE DEPARTMENT
800-478-1244 FAX: 310-537-4259
310-537-3700

TECHNICAL ASSISTANCE
800-478-1244 FAX: 310-631-5032

WARRANTY DEPARTMENT
800-421-1244, EXT. 279 FAX: 310-537-1173
310-537-3700, EXT. 279

Place Your Parts Order Via Web or Fax For Even More Savings!
(Domestic USA Dealers Only)

Extra Discounts!
All parts orders which include complete part numbers and are received by our automated web parts order system, or by fax qualify for the following extra discounts:

<table>
<thead>
<tr>
<th>Ordered via</th>
<th>Standard orders</th>
<th>Stock orders ($750 list and above)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fax</td>
<td>3%</td>
<td>10%</td>
</tr>
<tr>
<td>Web</td>
<td>5%</td>
<td>10%</td>
</tr>
</tbody>
</table>

Special freight allowances when you order 10 or more line items via Web or Fax!**
FedEx Ground Service at no charge for freight
No other allowances on freight shipped by any other carrier.

**Common nuts, bolts and washers (all items under $1.00 list price) do not count towards the 10+ line items.

NOTE: DISCOUNTS ARE SUBJECT TO CHANGE

Direct TOLL-FREE access to our Parts Department:

Toll-free nationwide — 800-427-1244
Toll-free FAX — 800-6-PARTS-7 (800/672-7877)

Postal Footnote:
STOW CONSTRUCTION EQUIPMENT
888-252-STOW/888-252-7869
800-427-1244

Fax: 310-537-3700

E-MAL: stow@stowmfg.com

INTERNET: www.stowmfg.com

POST OFFICE BOX 6254
CARSON, CA 90749
FAX: 310-537-1986
FAX: 800-556-1986
E-MAIL: stow@stowmfg.com

INTERNET: www.stowmfg.com
FOR YOUR SAFETY AND THE SAFETY OF OTHERS!

Safety precautions should be followed at all times when operating this equipment. Failure to read, understand and comply with the Safety Messages and Operating Instructions could result in injury to yourself and others.

This Operation Manual has been developed to provide instructions for the safe and efficient operation of the SVA-Series Vibrator Motor.

Before using this Vibrator Motor, ensure that the operating individual has read, understands, and complies with all instructions in this manual.

HAZARD SYMBOLS

Accidental Starting

Accidental starts can cause severe injury or death. ALWAYS place the ON/OFF switch in the OFF position when the Vibrator Motor is not in use.

Explosive Fuel

Gasoline is extremely flammable, and its vapors can cause an explosion if ignited. DO NOT start the Vibrator Motor near spilled fuel or combustible fluids. NEVER operate the Vibrator Motor in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe bodily harm or even death.

Rotating Parts

NEVER operate equipment with covers, or guards removed. Keep fingers, hands, hair and clothing away from all moving parts to prevent injury.

Sight and Hearing hazard

ALWAYS wear approved eye and hearing protection.

SAFETY MESSAGE ALERT SYMBOLS

The three (3) Safety Messages shown below will inform you about potential hazards that could injure you or others. The Safety Messages specifically address the level of exposure to the operator, and are preceded by one of three words: DANGER, WARNING, or CAUTION.

DANGER

You WILL be KILLED or SERIOUSLY INJURED if you DO NOT follow these directions.

WARNING

You CAN be KILLED or SERIOUSLY INJURED if you DO NOT follow these directions.

CAUTION

You CAN be INJURED if you DO NOT follow these directions.

Potential hazards associated with vibrator motor operation will be referenced with Hazard Symbols which appear throughout this manual, and will be referenced in conjunction with Safety Message Alert Symbols.
SVA-SERIES — RULES FOR SAFE OPERATION

**GENERAL SAFETY RULES**

- **DO NOT** operate or service this equipment before you read, understand, and comply with all safety messages in this manual. The manual must be kept available and accessible to the operator.

- This equipment should not be operated by persons under the minimum statutory age limit.

- Keep untrained personnel away. **DO NOT** let visitors contact the vibrator unit. All visitors should be kept away from the work area.

- **NEVER** operate a vibrator motor while under the influence of drugs, alcohol, or medications that may impair the senses or reactions.

- **NEVER** use this machine for any purpose other than those described in this manual.

- Dress properly. Wear appropriate clothing and protective safety equipment. Wear clothing that will not likely become caught in the equipment or snag on the forms. Eye, hand, hearing, and foot safety equipment is required.

- Manufacturer does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modification will void all warranties. Any modification which could lead to a change in the original characteristics of the machine should be made only by the manufacturer who shall confirm that the machine is in conformity with appropriate safety regulations.

- Replace nameplate, operation and safety decals when they become difficult to read.

- **DO NOT** overreach. Keep proper footing and balance at all times.

- Keep vibrator motor clean for better and safer operation.

- **DO NOT** use accessories or attachments which are not recommended by the manufacturer for this equipment. Damage to the equipment and/or injury to user may result.

- **NEVER** use accessories or attachments which are not recommended by the manufacturer for this equipment. Damage to the equipment and/or injury to user may result.

- Inspect motor cord periodically and if damaged, have it repaired by an authorized service facility.

- Before each use **ALWAYS** check the motor to make certain there are no damaged parts, and that all parts function properly, (examples: switch, cord housing). If any damage or malfunctioning parts are found, have them repaired or replaced by an authorized service facility.

- Use only factory authorized identical replacement parts.

The following safety guidelines should always be used when operating the SVA-SERIES Vibrator Motor.

**VIBRATOR MOTOR OPERATION SAFETY RULES**

- Keep work area well lit.

- Keep work area clean and well organized. A cluttered area invites injuries.

- **ALWAYS** clear the work area of any debris, tools, etc. that would constitute a hazard while the vibrator motor is in operation.

- **ALWAYS** be sure the operator is familiar with proper safety precautions and operations techniques before using vibrator motor.

- **DO NOT** overreach. Keep proper footing and balance at all times.

- Secure forms. Make sure the form work is well made and braced to withstand the stresses made by vibration.

- **ALWAYS** check the vibrator motor for loosened hardware such as nuts and bolts before starting.

- Keep vibrator motor clean for better and safer operation.

- **ALWAYS** check the motor to make certain there are no damaged parts, and that all parts function properly, (examples: switch, cord housing). If any damage or malfunctioning parts are found, have them repaired or replaced by an authorized service facility.

- Use only factory authorized identical replacement parts.

**WARNING**

Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.
Before plugging the motor into a power source, **ALWAYS** remove any wrenches or other tools from the motor, shaft, and head that were used for assembly.

**Be sure switch is in the “OFF” position before plugging the motor into a power source.**

**DO NOT** carry plugged-in motor with finger on the switch.

**NEVER** use the motor with a defective switch. If the switch does not turn the motor “ON” or “OFF”, have it replaced before using the motor.

**NEVER** carry the motor by the cord. Use the carrying frame.

Keep the cord from heat, oil, and sharp objects.

**DO NOT** overload the motor. It will do a better and safer job at the rate for which it was designed.

**DO NOT** force the motor and head to do the job of a larger motor and head.

**DO NOT** expose vibrator motor to rain.

**DO NOT** use vibrator motor in damp or wet locations without proper electrical circuits.

**NEVER** operate the vibrator motor in an explosive atmosphere where fumes are present, or near combustible materials. An explosion or fire could result in severe **bodily harm or even death.**

**ALWAYS** keep clear of **rotating or moving parts** while operating the vibrator motor.

**NEVER** leave the machine **unattended** while running.

**ALWAYS** turn the motor off and unplug the power cord before performing service or maintenance functions.

**DO NOT** yank the cord to disconnect it from the receptacle. Grasp the plug itself to disconnect it.

**ALWAYS** disconnect the motor from the power source when not in use, before servicing, and when changing flexible shafting and vibrator heads.

Allow the vibrator motor to cool before servicing. Contact with **hot!** components can cause serious burns.

Store idle vibrator motor. When not in use, motor should be stored in a dry, safe storage area.

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**VIBRATOR MOTOR ELECTRICAL SAFETY RULES**

**WARNING**

When using electric tools, basic safety precautions **MUST** be followed to reduce the risk of fire and electric shock.

1. Know your concrete vibrator. Read this instruction manual. Learn the vibrator’s applications, limitations, and specific potential hazards peculiar to this tool.

2. Guard against electrical shock.

3. Prevent body contact with grounded surfaces. (For example: pipes, reinforcing bar, etc.)

Use a protection wiring device, such as a Ground Fault Circuit Interrupter, for the protection of personnel.

This concrete vibrator motor is equipped with a 3-conductor cord, and a 3-prong grounding type plug to fit the proper grounding type receptacle. The green conductor in the cord is the ground wire. **NEVER** connect the green wire to a live terminal. See (Figure 1) for proper grounding methods.

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**Figure 1. Grounding Methods (Typical)**

1. Grounding Pin
2. Metal Screw
3. Adapter
4. Grounding Means
### SVA-SERIES — RULES FOR SAFE OPERATION

**WARNING**

ALWAYS use a grounded 3-wire extension cord that has a 3-prong grounding plug, and a 3-pole receptacle that accepts the plug on the concrete vibrator motor. **DO NOT REMOVE THE GROUNDING PIN FROM THE PLUG!**

**WARNING**

MAKE CERTAIN the motor is connected to a GROUND FAULT CIRCUIT INTERRUPTER to protect the operator from possible electric shock.

**CAUTION**

Use of an extension cord with a wire gauge smaller than, or length longer than that stated previously could result in reduced motor performance and/or damage to the motor or extension cord due to overheating.

### 4. Use of extension cords.

- **MAKE CERTAIN** the power cord/extension cord is free from damage, and that the grounding circuit is operational. Repair or replace all damaged cords and grounding units.
- When extending the cord, **DO NOT** submerge the connection in water. Avoid the possibility of electric shock by **ALWAYS** making water-tight connections.

### Emergencies

- **ALWAYS** know the location of the nearest *fire extinguisher*.
- **ALWAYS** know the location of the nearest *first aid kit*.
- Know the phone numbers of the nearest *ambulance, doctor* and *fire department*. Ensure that a phone or radio is readily available at the jobsite. If this is not possible, know the location of the nearest phone. This information will be invaluable in the event of an emergency.

#### TABLE 1. Extension Cord Sizes

<table>
<thead>
<tr>
<th>Ampere Rating Range</th>
<th>Volts</th>
<th>25 Ft</th>
<th>50 Ft</th>
<th>100 Ft</th>
<th>150 Ft</th>
<th>200 Ft</th>
<th>250 Ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>115V</td>
<td>230V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 - 2</td>
<td>18</td>
<td>18</td>
<td>16</td>
<td>16</td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - 3</td>
<td>18</td>
<td>18</td>
<td>16</td>
<td>14</td>
<td>14</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>3 - 4</td>
<td>18</td>
<td>18</td>
<td>14</td>
<td>12</td>
<td>12</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>4 - 5</td>
<td>18</td>
<td>18</td>
<td>14</td>
<td>12</td>
<td>12</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>5 - 6</td>
<td>18</td>
<td>16</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>6 - 8</td>
<td>18</td>
<td>16</td>
<td>12</td>
<td>10</td>
<td>10</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>8 - 10</td>
<td>18</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td>8</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>10 - 12</td>
<td>16</td>
<td>14</td>
<td>10</td>
<td>8</td>
<td>8</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>12 - 14</td>
<td>16</td>
<td>12</td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>14 - 16</td>
<td>16</td>
<td>12</td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>16 - 18</td>
<td>14</td>
<td>12</td>
<td>8</td>
<td>8</td>
<td>6</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>18 - 20</td>
<td>14</td>
<td>12</td>
<td>8</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>
## SVA-SERIES—SPECIFICATIONS (VIBRATOR MOTOR)

### Figure 2. Dimensions

![Dimensions Diagram](image)

#### TABLE 2. SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>SVA-1</th>
<th>SVA-2/SVA-2E</th>
<th>SVA-3/SVA-3E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horsepower</td>
<td>1HP (0.746 kW)</td>
<td>2HP (1.492 kW)</td>
<td>3HP (2.238 kW)</td>
</tr>
<tr>
<td>Length</td>
<td>13.5” (343mm)</td>
<td>13.5” (343mm)</td>
<td>13.5” (343mm)</td>
</tr>
<tr>
<td>Width</td>
<td>8.75” (222.25mm)</td>
<td>8.75” (222.25mm)</td>
<td>8.75” (222.25mm)</td>
</tr>
<tr>
<td>Height</td>
<td>7.75” (196.85mm)</td>
<td>7.75” (196.85mm)</td>
<td>7.75” (196.85mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>11 LBS. (4989.5g)</td>
<td>12.5 LBS. (5669.9g)</td>
<td>13.5 LBS. (6123.5g)</td>
</tr>
<tr>
<td>RPM (No Load)</td>
<td>20,000 RPM</td>
<td>20,000 RPM</td>
<td>20,000 RPM</td>
</tr>
<tr>
<td>Volts</td>
<td>115VAC</td>
<td>115VAC</td>
<td>230VAC</td>
</tr>
<tr>
<td>Amps</td>
<td>10A</td>
<td>15A</td>
<td>7.5A</td>
</tr>
<tr>
<td>Hertz</td>
<td>50/60Hz</td>
<td>50/60Hz</td>
<td>50/60Hz</td>
</tr>
</tbody>
</table>
Machine Safety Decals

The SVA-SERIES VIBRATOR MOTOR is equipped with a number of operation and safety decals. These decals are provided for operator safety and maintenance information. Should any of these decals become unreadable, replacements can be obtained from your dealer.

**WARNING**

To avoid injury, you MUST read and understand operator's manual before using this machine. This machine to be operated by qualified personnel only. Ask for training as needed.

**WARNING**

To guard against personal injury, observe the following:
1. Before using or operating this machine, read and fully understand all operating and safety instructions.
2. Use a 3-wire extension cord equipped with a 3-prong grounding plug.
3. Do not plug into a non-grounded outlet.
4. Do not operate machine on damp surface when connecting this cord to an electrical outlet.
5. Keep all electrical connections dry. DO NOT REMOVE THIS TAG!

**WARNING**

To guard against personal injury, observe the following:
1. Before using or operating this machine, read and fully understand all operating and safety instructions.
2. Use a 3-wire extension cord equipped with a 3-prong grounding plug.
3. Do not plug into a non-grounded outlet.
4. Do not operate machine on damp surface when connecting this cord to an electrical outlet.
5. Keep all electrical connections dry. DO NOT REMOVE THIS TAG!

Figure 3. Decals
Before using your Vibrator Motor, read and fully understand all of the safety and operating instructions not only for the motor, but also for the flexible shafting and the head that will be used with the motor.

1. The vibrator motor, flexible shafting, and heads are shipped from the factory ready to use. Connect per instruction bulletins.

2. Use only the combination of flexible shafting and heads shown below in Table 3.

3. To connect the 314V or 382V flexible shafting to the vibrator motor see illustration (Figure 4).

### Table 3. Shaft Sizes

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SHAFT</th>
<th>HEAD SIZE</th>
<th>MAX. SHAFT LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVA-1</td>
<td>314V</td>
<td>900</td>
<td>21 FT.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1300</td>
<td></td>
</tr>
<tr>
<td>SVA-2</td>
<td>382V</td>
<td>1400</td>
<td>28 FT.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1700</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2100</td>
<td>21 FT.</td>
</tr>
<tr>
<td>SVA-3</td>
<td>382V</td>
<td>1400</td>
<td>35 FT.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1700</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2100</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2600</td>
<td></td>
</tr>
</tbody>
</table>

4. Slide the core out of the casing far enough to thread the spindle (Item 3 Fig. 4) into the core fitting and tighten. A pair of pliers and a wrench can be used to tighten the connection. It is important that this connection is tight. If it is not, the torque of the motor plus the load of the head will jam the two fittings together making it extremely hard to loosen them for disassembly.

5. Thread the shaft coupling (Item 2 Fig. 4) into the casing ferrule and tighten.

6. Pull up on the lock pin and slide the shaft assembly into the front motor bearing housing and release the lock pin. Give the shaft assembly a twist to make sure that the lock pin is seated in the lock groove of the shaft coupling.

7. Clean the mating parts threads with Locquic Primer "T". Allow to dry several minutes before applying a ring of Locitite No. 271 or equivalent to the middle of the casing threads. Screw the head tightly to the casing and wait 1 hour before using. Threads are left-hand; turn counter-clockwise to tighten.

### Figure 4. Motor-to-Shaft Connection

1. Lock Assembly
2. Shaft Coupling Quick Disconnect
3. Spindle Shaft
4. Core Fitting
5. Motor
6. Drive Coupler Quick Disconnect

---

**WARNING**

MAKE CERTAIN the motor is disconnected from the power source and the switch is in the "OFF" position.

---

**CAUTION**

If the shaft begins to helix (buckle) excessively during operation, stop and investigate. This is an indication of an overload condition.

---

**CAUTION**

The vibrator head is cooled by the concrete. Operation of the vibrator head in air longer than 2 minutes at a time will cause overheating of the bearings which will result in premature head failure.

---

**CAUTION**

Visually inspect the air intake and exhaust frequently to make sure the motor has sufficient air for cooling.
SVA Series Vibrator Motor Familiarization

This VIBRATOR MOTOR is designed for the compaction of concrete by removal of air pockets and voids.

The action of vibration is to set the particles in the fresh concrete in motion, thereby reducing the friction between the particles and giving the mixture the mobile quality of a thick fluid so gravity and the displacement of entrapped air will cause it to settle easily into place.

By consolidating the concrete quickly, "stiffer" or "drier" mixes can be poured than would otherwise be possible. It has been proven that (up to a point) the drier the concrete, (that is, the less water in it), the better the quality throughout and the greater the strength.

Drier mixes also make the concrete more water tight, increase resistance to weathering, and create a better bond between concrete and reinforcement. Because vibration causes much of the entrapped air in the concrete to rise to the surface, honeycombing is prevented. Vibration also eliminates most of the air pockets between the concrete and the vertical forms.

SVA-SERIES VIBRATOR MOTOR OPERATION

Read all the safety instructions carefully. Safety instructions will be found throughout this manual and on the Vibrator Motor. Keep all safety information in good, readable condition.

1. Make certain that the flexible shaft is properly attached to the motor and the head to the flexible shaft.
2. Use the flexible shaft in as straight a position as possible.
3. DO NOT bend the flexible shaft sharply at any point. Sharp bends may cause a permanent kink, requiring early replacement of the flexible shaft.
4. With the vibrator motor properly plugged into the correct power source, turn the ON/OFF switch to the "ON" position and proceed to insert the vibrator into the concrete.
5. The concrete is normally placed in the forms in layers about 12 to 18 inches thick in a manner which forms a fairly level surface. The vibrator head is inserted vertically into the top of the pile.
6. DO NOT insert the head into the side of the pile to make the concrete flow as this practice can cause segregation of the aggregate from the mortar. When the surface has become fairly level, the head should be immersed and generally moved in the pattern shown in Figure 5.
7. Immerse the head for 5 to 10 seconds, (until air stops rising), and then withdraw it slowly to let the concrete fill the void left by the head.
8. The head should be completely below the surface when vibrating to keep the head cool.
9. When vibrating a thin horizontal slab, the head can be used in a horizontal position.

<table>
<thead>
<tr>
<th>Table 4. Compaction Coverage</th>
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<tbody>
<tr>
<td>Head</td>
</tr>
<tr>
<td>P-Dimension</td>
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MAINTENANCE

**CAUTION**

Before performing any maintenance on this unit, ALWAYS MAKE CERTAIN that the switch is in the "OFF" position and the power cord is disconnected from the power source.

This is a universal motor and it will run at approximately its rated speed if the motor and its attached equipment are properly operated and maintained.

1. Have repair work performed by an authorized service facility, using identical or manufacturer approved replacement parts.

2. This motor uses sealed bearings and does not require lubrication.

3. Visually inspect the motor daily before use for defective or missing parts, and have repairs made before use.

4. Inspect brushes frequently and replace when they become worn to a length of 3/8". (See Length A in Figure 6).

5. Keep air inlet and air exit louvers clean and free of concrete and debris. Failure to do so will result in rapid motor overheating and parts failure.

6. Clean air filter as needed. If unit is used in high dust areas, filter will have to be cleaned more often.

7. Use a screw driver to tighten brush caps. **DO NOT OVERTIGHTEN.** The brush cap must be tight enough that the brush holder does not move.

8. The 314V and 382V flexible shafts require cleaning and relubrication every 100 hours of operation. Refer to flexible shafting operating instructions for maintenance instructions.

9. Vibrator heads should be inspected and relubricated every 100 hours of operation. Follow the instructions for vibrator heads.

**NOTE**

Heat should be used to break down the threadlock (loctite) while you unthread the head from the shaft. This will help prevent damage to the threads.

**Bronze Wear Bushing Replacement**

Refer to Figure 7 and the following steps for removal and replacement of the bronze wear bushing.

1. Slotted Spring Pin
2. Quick Disconnect Knob
3. Spring Housing
4. Compression Spring
5. Lock Pin
6. Output Endbell Shaft
7. Bronze Wear Bushing
8. Shaft Coupling

**Figure 7. Bronze Wear Bushing**

1. If installed, remove head assembly and shaft coupling (item 8, Figure 7).
2. Remove pin (item 1, Figure 7) using hammer and punch of appropriate size.
3. Once the pin is removed, the knob, spring and lock pin can easily be removed. (items 2, 4, and 5)

**Figure 6. Brush Length**

1. Inspect brushes frequently and replace when they become worn to a length of 3/8". (See Length A in Figure 6).
Motor Reassembly

If the motor required disassembly for servicing, reinstalling the assembly back into the case will be much easier if all internal components are reassembled as a unit first.

Refer to Figure 8 or the Vibrator Motor Assembly illustration on page 22 when performing the following steps.

1. Place the Brush Endbell (item 1, Figure 8) on work surface with bearing pocket up.
2. Place two plastic insulators (items 2) in the holes on the endbell.
3. Slide the Field Assembly (item 4), with the leads toward the endbell, into place ensuring the plastic insulators engage into the field holes.
4. Plug the brush flag leads (see Figure 9, Field Orientation) into the top of the brush holders toward the output shaft end. (See Figure 10).
5. Install the Armature/bearings Assembly (item 5) and Wave Spring (item 3) through the Field and into the endbell bearing pocket.
6. Place the remaining two plastic insulators (items 6) into the holes of the Output Endbell (item 7).

4. Using channel lock style pliers with soft jaws, unscrew the spring housing (item 3). Heat may need to be applied to break down the old threadlock to prevent damage to the threads on the spring housing.
5. After the spring housing is removed, use a 3-jaw bearing puller to remove the bronze wear bushing, (item 7).
6. To install a new bronze wear bushing, first align the hole in the new bushing with the spring housing hole. Press the bushing straight and evenly into place using a block of wood or soft aluminum and a mallet. Bushing should be flush with the end of the shaft when fully seated.
7. Clean all old threadlock from the spring housing and apply new threadlock (Loctite blue 242 or equivalent).
8. Screw the spring housing firmly into place using channel lock style pliers with soft jaws.
9. Reinstall the lock pin, spring and knob and secure with pin.
10. Verify the Quick Disconnect Knob operates freely and snaps back into position. If the knob stays in the up position there is binding occurring between the knob, spring, or lock pin.
7. Slide the Output Endbell (item 7) down onto the Armature/Bearing Assembly (item 5) so the bearing engages the bearing pocket of the endbell and insulators seat properly on the Field.

8. Install the lockwashers and long screws through both endbells as shown and torque to 50-70 in. lbs. (5.65 N-m to 7.91 N-m).

9. Place the motor assembly into the plastic housing half that has the threaded inserts. (item 1 Figure 11)

Field Orientation (Figure 9) (when viewed from the rear of the motor)

1. Lead to Switch
2. Lead to Brush Holder (Right Housing)
3. Lead to Brush Holder (Left Housing)
4. Lead to Switch

Figure 9. Field Orientation

10. Plug the Motor Power Leads (Items 5) to the spade terminals of the Power Switch Terminal (item 4) shown in Figure 11. Tuck the leads out of the way so they will not rub on the rotating armature assembly and to prevent them from getting pinched between the plastic housing halves.

11. Plug the Powercord Leads (items 3) to the Power Switch Terminal as shown in Figure 11.

12. Attach Ground Wire (item 2) from powercord to rear of brush endbell using screw and star washer.

13. Fit powercord into slot in housing half and place switch plate, filter and plastic filter cover into slot on housing half. Use illustration on page 20 for reference.

14. Assemble top plastic housing half (without the inserts) to the bottom plastic housing half and snap together. (the lip around the housing should "pop" as it aligns).

15. Install housing screws and lockwashers shown in illustration. Torque screws to 30-50 in-lbs, (3.39 N-m to 5.65 N-m).

16. Assemble the rubber TPR end caps and extruded tube handles onto plastic housing assembly using screws and washers shown in illustration.

Figure 10. Brush Leads

Figure 11. Powercord hookup

1. Plastic Housing Half (with inserts)
2. Ground Wire
3. Powercord Leads
4. Switch Plate Terminals
5. Motor Power Leads
<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE PROBLEM</th>
<th>SOLUTION</th>
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<tbody>
<tr>
<td>Motor does not start.</td>
<td>No power to motor.</td>
<td>Verify unit is plugged in to proper outlet. Verify extension cords are properly plugged in and are not cut or pinched. Verify power is available at outlet. (check main switch or breaker.)</td>
</tr>
<tr>
<td></td>
<td>Burnt out switch (rare). One or more internal connections open.</td>
<td>Replace or complete connections as needed.</td>
</tr>
<tr>
<td>Housing halves do not seat together properly</td>
<td>Pinched wire.</td>
<td>Use screw driver to adjust wires. MAKE CERTAIN not to damage the insulation on the wires. Seat Switch Plate properly in Housing slot.</td>
</tr>
<tr>
<td></td>
<td>Switch Plate or Filter Cover not seated properly.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Power Cord Grommet not seated properly.</td>
<td>Seat grommet in Housing slot.</td>
</tr>
<tr>
<td>Rattling/growling noise from rear of housing area.</td>
<td>Rear bearing failure.</td>
<td>Replace bearing.</td>
</tr>
<tr>
<td>Rattling/growling noise from forward housing area.</td>
<td>Worn coupler.</td>
<td>Disconnect coupler and turn motor on. If noise goes away replace coupler. If noise remains, check forward bearing.</td>
</tr>
<tr>
<td></td>
<td>Forward bearing failure.</td>
<td>Replace bearing.</td>
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### VIBRATOR MOTOR HOUSING ASSY.

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NOTES:

1. TORQUE TO 50-70 IN.-LBS. (.565 N-m to 7.91 N-m)

2. TORQUE TO 4-6 IN.-LBS. (.5 N-m to .7 N-m).
   TO REMOVE SET SCREW, USE A 3/32 ALLEN WRENCH.
   WHEN REPLACING SET SCREW, ADD 2-3 DROPS OF
   #680 LOCTITE (GREEN) IN SET SCREW HOLE.
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PAYMENT TERMS
Terms of payment for unit sales are 2% 15 days net 30 days from date of invoice unless otherwise specifically stated on our invoice. Parts invoices have terms of net 10 days. Minimum parts billing is $15.00 net. Applicable discounts will be computed on merchandise value only. Late charges will be assessed at prevailing rates. Cash discounts cannot be taken on current billings if any previously billed amounts are past due.

FREIGHT POLICY
Freight policy is established to offer customers every advantage possible. Due to bulk freight ratings on some equipment and other shipping considerations, freight policies differ by equipment type. Actual back freight may be charged for shipments originating from other than specified FOB warehouses. See Freight Policy for details.

All STOW domestic sales are FOB nearest available designated MQ/STOW warehouse. Export orders are ex-works factory located in Carson, CA or Boise, ID.

Additions to orders already shipped cannot be accepted for freight minimums.

Should STOW elect to make partial shipments of an order originally complying with the “freight allowed” requirements, transportation charges will be absorbed by STOW on any subsequent shipment applying to that order.

All other orders will be shipped collect or prepaid at the sender's expense.

STOW reserves the right to refuse Drop Shipments outside the normal service area of the purchasing dealer.

FIELD WAREHOUSES
Field Warehouses are currently located in California, Georgia, Idaho, Iowa, and New Jersey.

SPECIAL EXPEDITING SERVICE
The higher of a $35.00 surcharge or actual costs will be added to the invoice for special handling, including bus shipments, or in cases where STOW personnel must personally deliver the equipment or parts to the carrier.

RETURNED GOODS POLICY
Return shipments may be accepted and credit allowed, subject to the following provisions.

1. A Returned Material Authorization (RMA) must be approved by STOW prior to shipment. Approvals for returned goods must be with just cause and are at the sole discretion of STOW. A copy of the Authorization must accompany the shipment to the designated Warehouse.

2. Parts being returned must be listed as currently supplied on the current parts list.

3. Parts must be in new and resalable condition in the original package, with part numbers clearly marked.

4. Units and accessories must be current models in the latest price list and in new and resalable condition.

5. Special order items are not returnable for credit.

6. Credit on returned parts and units will be issued at actual dealer net price at time of purchase less 15% restocking charge.

7. All returned shipments are to be made to the STOW designated receiving point, freight prepaid at the sender's expense.

The sender will be notified of any material received that does not meet the above provisions. Such material will be held for 30 days from notification pending instructions. If a reply is not received within 30 days, the material will be returned to the sender at his expense with no credit issued.

PRICING, REBATES AND SPECIFICATIONS
Every effort will be made to provide adequate notice of changes; however, prices and equipment specifications are subject to change without notice.

Price changes are effective on a specific date and all orders received on or after that date will be billed at the revised price.

Rebates for price reductions and added charges for price increases will not be made for stock in dealer inventory at the time of a price change.

STOW reserves the right to quote and sell direct to Government agencies and to Original Equipment Manufacturer accounts who use our products as integral parts of their own products.

LIMITATION OF SELLER'S LIABILITY
STOW shall not be liable hereunder for damages in excess of the purchase price of the item with respect to which damages are claimed and in no event shall STOW be liable for loss of profit or good will or for any other special, consequential or incidental damages.

LIMITATION OF WARRANTIES
There are no warranties, expressed or implied, made by STOW hereunder on products manufactured or distributed by it except the warranty against defects in material and workmanship on new products to the original purchaser, as set forth in the STOW New Product Limited Warranty.

STOW CONSTRUCTION EQUIPMENT
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STOW
A DIVISION OF MULTQUIP INC.
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STOW Construction Equipment
HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL NUMBER ON-HAND WHEN CALLING

PARTS DEPARTMENT
800-427-1244  FAX: 800-672-7877
310-537-3700  FAX: 310-637-3284

SERVICE DEPARTMENT
800-478-1244  FAX: 310-537-4259
310-537-3700

TECHNICAL ASSISTANCE
800-478-1244  FAX: 310-631-5032

WARRANTY DEPARTMENT
800-421-1244, EXT. 279  FAX: 310-537-1173
310-537-3700, EXT. 279

SALES DEPARTMENT
310-661-4242  FAX: 310-604-9237
877-289-7869 (877-BUY-STOW)

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This manual MUST accompany the equipment at all times. This manual is considered a permanent part of the equipment and should remain with the unit if resold.

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