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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### NOTICE
Specifications and part numbers are subject to change without notice.
Ordering parts has never been easier!
Choose from three easy options:

Order via Internet ( Dealers Only):
Order parts on-line using Multiquip’s SmartEquip website!
- View Parts Diagrams
- Order Parts
- Print Specification Information

Goto www.multiquip.com and click on Order Parts to log in and save!

Order via Fax ( Dealers Only):
All customers are welcome to order parts via Fax.
Domestic (US) Customers dial:
1-800-6-PARTS-7 (800-672-7877)

Fax your order in and qualify for a 2% Discount on Standard orders for all orders which include complete part numbers.*

Order via Phone:  
Domestic (US) Dealers Call:
1-800-427-1244

When ordering parts, please supply:
- 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:
- UPS/Fed Ex
- Priority One
- Ground
- Next Day
- Truck
- DHL
- Second/Third Day

NOTICE

All orders are treated as Standard Orders and will ship the same day if received prior to 3PM PST.

WE ACCEPT ALL MAJOR CREDIT CARDS!
SAFETY INFORMATION

DO NOT operate or service the equipment before reading the entire manual. Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the safety messages and operating instructions could result in injury to yourself and others.

SAFETY MESSAGES

The four 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 four words: DANGER, WARNING, CAUTION or NOTICE.

SAFETY SYMBOLS

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Safety Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Burn hazards" /></td>
<td>Burn hazards</td>
</tr>
<tr>
<td><img src="image" alt="Electric shock hazards" /></td>
<td>Electric shock hazards</td>
</tr>
</tbody>
</table>

PERSONAL SAFETY

**CAUTION**

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

- Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on can cause accidents.

- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

- DO NOT overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
SAFETY INFORMATION

GENERAL POWER TOOL SAFETY WARNINGS

WARNING

- Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
- Save all warnings and instructions for future reference.

NOTICE

- The term "power tool" in the warnings refers to your mains-operated (corded) power tool.

WORK AREA SAFETY

NOTICE

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- DO NOT operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- ALWAYS clear the work area of any debris, tools, etc. that would constitute a hazard while the equipment is in operation.
- No one other than the operator is to be in the working area when the equipment is in operation.
- DO NOT use the equipment for any purpose other than its intended purpose or application.
- This equipment should only be operated by trained and qualified personnel, 18 years of age and older.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- Manufacturer does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modification will void all warranties.
- NEVER use accessories or attachments that are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- ALWAYS know the location of the nearest fire extinguisher.
- ALWAYS know the location of the nearest first aid kit.
- ALWAYS know the location of the nearest phone or keep a phone on the job site. Also, know the phone numbers of the nearest ambulance, doctor and fire department. This information will be invaluable in the case of an emergency.

MOTOR AND FLEXSHAFT SAFETY

DANGER

- ALWAYS wear rubber insulated gloves and boots when holding the flexshaft during operation. The possibility of electrocution exists causing equipment damage and severe bodily harm even death!

DANGER

- If applicable, periodically check insulation resistance. The possibility of electrocution exists causing equipment damage and severe bodily harm even death!

WARNING

- NEVER attempt to run the core outside the casing assembly for any reason.

CAUTION

- DO NOT carry plugged-in motor with finger on the switch.
- NEVER carry the motor by the cord. Use the carrying handle.
- ALWAYS check the vibrator motor for loosened hardware such as nuts and bolts before starting.
- 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.
SAFETY INFORMATION

DO NOT expose vibrator motor to rain.
DO NOT use vibrator motor in damp or wet locations without proper electrical circuits.
DO NOT immerse the motor part in concrete.
ALWAYS keep clear of rotating or moving parts while operating the vibrator motor.
NEVER leave the machine unattended while running.
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.
Before each use, ALWAYS check the motor to make certain that there are no damaged parts and that all parts function properly (such as switch, cord housing). If any damage or malfunctioning parts are found, have them repaired or replaced by an authorized service facility.

NOTICE

Secure forms. Make sure the form work is well made and braced to withstand the stresses made by vibration.
Keep vibrator motor clean for better and safer operation.
ALWAYS store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children and unauthorized personnel.
Use only factory-authorized replacement parts.
Store idle vibrator motor. When not in use, motor should be stored in a dry, safe storage area.

ELECTRICAL SAFETY

CAUTION

Power tools must match the outlet. NEVER modify the plug in any way. DO NOT use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
DO NOT expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
DO NOT abuse power cord. NEVER use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
This unit is double-insulated. The double-insulation between the electric-conducting part and the outside frame makes grounding unnecessary. However, if parts are replaced with wrong parts or assembled incorrectly, the vibrator may become unsafe to operate. Use only Multiquip recommended replacement parts.
When applicable, use a protection wiring device, such as a Ground Fault Circuit Interrupter, for the protection of personnel.
Operate electric motor only at the specified voltage indicated on the nameplate.
DO NOT spray water onto electric motor.
DO NOT yank the cord to disconnect it from the receptacle. Grasp the plug itself to disconnect it.
ALWAYS make sure the ON/OFF switch on the electric motor is in the OFF position when not in use and before inserting the power plug into an AC receptacle.
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.
Power Cord/Cable Safety

**DANGER**

- **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!**
- **NEVER** let power cords or cables lay in water.
- **NEVER** use damaged or worn cables or cords when connecting equipment to generator. Inspect for cuts in the insulation.
- **NEVER** grab or touch a live power cord or cable with wet hands. The possibility exists of electrical shock, electrocution or death.
- Make sure power cables are securely connected. Incorrect connections may cause electrical shock and damage to the vibrator motor.

**CAUTION**

- Ensure that cables and cords will not be tripped over.

**NOTICE**

- **ALWAYS** make certain that proper power or extension cord has been selected for the job.
- Use only extension cords that are intended for outdoor use and so marked.
- Use only the gauge wire and length of cord recommended for the motor size. If in doubt, go to the next heavier gauge. (The smaller the gauge number, the heavier the cord.)

**POWER TOOL USE AND CARE**

- **DO NOT** force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- **DO NOT** use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

**SERVICE**

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

**ENVIRONMENTAL SAFETY/DECOMMISSIONING**

**NOTICE**

- **DO NOT** pour waste or oil directly onto the ground, down a drain or into any water source.
- Contact your country's Department of Public Works or recycling agency in your area and arrange for proper disposal of any electrical components, waste or oil associated with this equipment.
- When the life-cycle of this equipment is over it is recommended that the head casing and all other metal parts be sent to a recycling center.
## Table 1. Vibrator Specifications

<table>
<thead>
<tr>
<th>120 Volt Models</th>
<th>240 Volt Models</th>
<th>Amps 120V (240V)</th>
<th>Watts</th>
<th>Head in. (mm)</th>
<th>Shaft Dia in. (mm)</th>
<th>Amplitude in. (mm)</th>
<th>Frequency Hz (vpm)</th>
<th>Shaft Length ft. (m)</th>
<th>Overall Length ft. (m)</th>
<th>Motor Weight lb. (kg)</th>
<th>Shaft/Head Weight lb. (kg)</th>
<th>Total Weight lb. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGX12325</td>
<td>MGX22325</td>
<td>3.8 (2.1)</td>
<td>280</td>
<td>.905 (23)</td>
<td>.79 (20)</td>
<td>.047 (1.2)</td>
<td>12,000 to 15,500 (200 to 258)</td>
<td>8.2 (2.5)</td>
<td>9.5 (2.9)</td>
<td>6.4 (2.9)</td>
<td>5.07 (2.3)</td>
<td>11.5 (5.2)</td>
</tr>
<tr>
<td>MGX12810</td>
<td>MGX22810</td>
<td>3.8 (2.1)</td>
<td>280</td>
<td>1.10 (28)</td>
<td>.98 (25)</td>
<td>.070 (1.8)</td>
<td>12,000 to 15,500 (200 to 258)</td>
<td>3.2 (1.0)</td>
<td>4.7 (1.4)</td>
<td>6.4 (2.9)</td>
<td>3.08 (1.4)</td>
<td>9.5 (4.3)</td>
</tr>
<tr>
<td>MGX12825</td>
<td>MGX22825</td>
<td>3.8 (2.1)</td>
<td>280</td>
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<tr>
<td>MGX13225</td>
<td>MGX23225</td>
<td>3.8 (2.1)</td>
<td>280</td>
<td>1.25 (32)</td>
<td>.98 (25)</td>
<td>.075 (1.9)</td>
<td>12,000 to 15,500 (200 to 258)</td>
<td>8.2 (2.5)</td>
<td>9.5 (2.9)</td>
<td>6.4 (2.9)</td>
<td>3.08 (1.4)</td>
<td>9.5 (4.3)</td>
</tr>
<tr>
<td>MGX13810</td>
<td>MGX23810</td>
<td>3.8 (2.1)</td>
<td>280</td>
<td>1.5 (38)</td>
<td>.98 (25)</td>
<td>.079 (2.0)</td>
<td>12,000 to 15,500 (200 to 258)</td>
<td>3.2 (1.0)</td>
<td>4.7 (1.4)</td>
<td>6.4 (2.9)</td>
<td>5.07 (2.3)</td>
<td>11.5 (5.2)</td>
</tr>
<tr>
<td>MGX13825</td>
<td>MGX23825</td>
<td>3.8 (2.1)</td>
<td>280</td>
<td>1.5 (38)</td>
<td>.98 (25)</td>
<td>.079 (2.0)</td>
<td>12,000 to 15,500 (200 to 258)</td>
<td>8.2 (2.5)</td>
<td>9.5 (2.9)</td>
<td>6.4 (2.9)</td>
<td>3.08 (1.4)</td>
<td>9.5 (4.3)</td>
</tr>
</tbody>
</table>

## Table 2. Replacement Heads and Shafts Specifications

<table>
<thead>
<tr>
<th>Head/Shaft Model</th>
<th>Head Diameter in. (mm)</th>
<th>Shaft Length ft (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGX2325</td>
<td>.9 (23)</td>
<td>8.2 (2.5)</td>
</tr>
<tr>
<td>MGX2810</td>
<td>1.10 (28)</td>
<td>3.2 (1.0)</td>
</tr>
<tr>
<td>MGX2825</td>
<td>1.10 (28)</td>
<td>8.2 (2.5)</td>
</tr>
<tr>
<td>MGX3225</td>
<td>1.25 (32)</td>
<td>8.2 (2.5)</td>
</tr>
<tr>
<td>MGX3810</td>
<td>1.5 (38)</td>
<td>3.2 (1.0)</td>
</tr>
<tr>
<td>MGX3825</td>
<td>1.5 (38)</td>
<td>8.2 (2.5)</td>
</tr>
</tbody>
</table>
## Dimensions

### Table 3. Dimensions

<table>
<thead>
<tr>
<th>120 Volt Models</th>
<th>240 Volt Models</th>
<th>Head (A) in. (mm)</th>
<th>Shaft Length (B) ft. (m)</th>
<th>Overall Length (C) ft. (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGX12325</td>
<td>MGX22325</td>
<td>.905 (23)</td>
<td>8.2 (2.5)</td>
<td>9.5 (2.9)</td>
</tr>
<tr>
<td>MGX12810</td>
<td>MGX22810</td>
<td>1.10 (28)</td>
<td>3.2 (1.0)</td>
<td>4.7 (1.4)</td>
</tr>
<tr>
<td>MGX12825</td>
<td>MGX22825</td>
<td>1.10 (28)</td>
<td>8.2 (2.5)</td>
<td>9.5 (2.9)</td>
</tr>
<tr>
<td>MGX13225</td>
<td>MGX23225</td>
<td>1.25 (32)</td>
<td>8.2 (2.5)</td>
<td>9.5 (2.9)</td>
</tr>
<tr>
<td>MGX13810</td>
<td>MGX23810</td>
<td>1.5 (38)</td>
<td>3.2 (1.0)</td>
<td>4.7 (1.4)</td>
</tr>
<tr>
<td>MGX13825</td>
<td>MGX23825</td>
<td>1.5 (38)</td>
<td>8.2 (2.5)</td>
<td>9.5 (2.9)</td>
</tr>
</tbody>
</table>

**Figure 1. MGX Vibrator Dimensions**
The MGX Vibrator has a double-insulated motor (no ground necessary) with advanced and user-friendly design. The motor is lightweight and durable with an aluminum motor case. The frontend closed-motor design prevents any invasion of mortar and foreign material from the front.

Vibration-dampening handle grip reduces operator fatigue.

Original cord protector gives flexibility to input cord for longer cord life.

Multiquip's shaft/heads are designed to work in medium to high slump concrete. Typical applications include small pours, slabs driveways, stem walls and footings.

A vibrating steel head is attached to one end of the flexshaft. This head generates vibration via an eccentric rotator that consolidates the concrete by removing air pockets. The round head design allows for the transmission of vibration in all directions.

WHY VIBRATE CONCRETE

To ensure optimum strength and durability, vibration of fresh concrete is an important requirement. Vibration or compaction is the principal method for consolidation of concrete.

CONSOLIDATION

Consolidation eliminates pockets of aggregate and air bubbles maximizing strength, eliminating surface voids. Vibrators consolidate concrete by transmitting shock waves which allow the aggregate to float freely while pushing lighter trapped air up and out of the concrete mix.

A properly consolidated concrete pour will display a thin line of mortar appearing along the form near the vibrator and the coarse aggregate has been dispersed evenly throughout the pour and is not visible.

VIBRATION TIME

Vibration time depends on frequency. The higher the frequency, the less vibration time is required for the job.

VIBRATION RANGE

Vibration range (Figure 2) can be defined as "Area of Influence". This area of influence (vibrating radius) is the distance from the center of the vibrator to the outer most edge.

Figure 2. Vibrator Radius/Spacing

Table 4 shows the vibration radius and spacing for a given vibrator head diameter.

<table>
<thead>
<tr>
<th>120 Volt Models</th>
<th>240 Volt Models</th>
<th>HeadDia. in. (mm)#</th>
<th>Vibration Radius (R) in. (mm)</th>
<th>Vibrator Spacing (D) in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGX12325</td>
<td>MGX22325</td>
<td>.9 (23)</td>
<td>4 (102)</td>
<td>6 (152)</td>
</tr>
<tr>
<td>MGX12810</td>
<td>MGX22810</td>
<td>1.1 (28)</td>
<td>5.5 (140)</td>
<td>8.25 (210)</td>
</tr>
<tr>
<td>MGX12825</td>
<td>MGX22825</td>
<td>1.1 (28)</td>
<td>5.5 (140)</td>
<td>8.25 (210)</td>
</tr>
<tr>
<td>MGX13225</td>
<td>MGX23225</td>
<td>1.25 (32)</td>
<td>8 (203)</td>
<td>12 (305)</td>
</tr>
<tr>
<td>MGX13810</td>
<td>MGX23810</td>
<td>1.5 (38)</td>
<td>12 (305)</td>
<td>18 (427)</td>
</tr>
<tr>
<td>MGX13825</td>
<td>MGX23825</td>
<td>1.5 (38)</td>
<td>12 (305)</td>
<td>18 (427)</td>
</tr>
</tbody>
</table>

NOTICE

Radius (area of influence R) and vibrator head spacing (D) are expressed in inches/millimeters. Radius and distance values expressed in Table 4 are only to be used as a general guide. Values are subject to change.
When determining which head to choose it is important to access the application. Mainly what are the dimensions of the application. Select the vibrator head based on its radiating radius characteristics. Reference Table 4.

Select the vibrating head that covers the largest possible area without excessive overkill. This will allow for more efficient productivity. General rule of thumb is **DO NOT** select a vibrator head which has a vibration radius of more than twice the width of the form.

**Example:**

If the form width is 9 inches (229 mm) the selected vibrator head radius should not exceed an 18 inch (457 mm) radius.

In this example the MGX3810 and MGX3825 head/shaft would be the recommended choice. Refer to Table 4 and Figure 3.

---

**NOTICE**

Vibrator head spacing distance \((D)\) is calculated by multiplying the vibrating head radius \((R)\) (area of influence) by 1.5.

---

**NOTICE**

Vibration techniques, vibrator head placement and spacing as referenced in the "General Information" and "Operation" sections of this manual is only to be **used as a guideline.** Multiquip assumes no responsibility for vibrator operating techniques referenced in this manual.

The consolidation of concrete has many mitigating factors that must be considered such as slump, mix, depth of vibrator, vibrator spacing, vibration time, vibration frequency, temperature. All of these factors must be considered when the consolidation (vibration) of concrete is required.

---

**Figure 3. Head Selection**
Figure 4. MGX Vibrator Components

1. **ON/OFF Switch** — Turns power on when pressed and off when released.

2. **Power Cord** — Connects to the power source. (120V or 220V depending on model). Make sure to check voltage on motor nameplate and connect to the appropriate power source.

3. **Motor** — 120V or 240V depending on model.

4. **Flexible Shaft** — Transmits rotary motion from the motor to the head.

5. **Vibrator Head** — Generates vibration via an eccentric rotator that consolidates the concrete by removing air pockets.

6. **Coupler** — Attaches the shaft/head assembly to the motor.

7. **Air Intake** — Air comes in and suctioned by the fan to cool the motor, then discharged at the rear of the motor.

8. **Power Lock Button** — Locks the ON/OFF Switch to the ON position. Lock is released when the ON/OFF Switch is pressed again.
OPERATION

1. Connect the vibrator to the proper power source.

2. If an extension cord is necessary, refer to Table 5 for the correct type of extension cord to use.

3. Hold vibrator head above concrete pour when starting drive motor. This will prevent the vibrator head from bouncing on hard surfaces which could damage the bearings.

4. Push the ON/OFF switch to the ON position then immerse into the surface. Do not run the motor outside of the surface for long periods.

5. Keep flexshaft (Figure 5) straight as possible when operating. Sharp bends increase the load on the core and drive motor, which will result in early core failure and possible damage to the drive motor.

6. Completely immerse the vibrator head quickly into the concrete mix at a vertical rate of about one foot per second (0.3 meters/second). Vibrate concrete for about 5 to 15 seconds for wet mixes. For stiff mixes vibrate 2-3 minutes.

7. Stop vibration of concrete mix when concrete has a level, glossy surface and there are no breaking air bubbles.

8. Slowly lift the head out of the mix using an up and down movement. This slight up and down movement will close the hole formed by the vibrator.

9. When lifting the head out of the concrete, withdraw slowly at a rate of about 3 sec./ft. Using this technique will avoid the re-trapping of air.

10. When near the top of the mix, withdraw the vibrator quickly.

11. Re-insert vibrator into mix according to the "area of influence" See Figure 5. Establish a symmetrical overlapping pattern for inserting and removing the vibrator head.

12. If concrete is poured in layers, allow vibrator to pass within 3 to 6 inches (76 to 152 mm.) into next layer to ensure the knitting of the two layers. The complete bonding of layers will prevent "lift lines" when forms are removed.

NOTICE

Pressing the Power Lock Button will lock the On/OFF switch to the ON position.

DO NOT use vibrator to move concrete laterally. This will cause segregation of the concrete. Use a shovel or similar device to spread the concrete.

Table 5. Extension Cord Types

<table>
<thead>
<tr>
<th>Current in Amperes</th>
<th>Load in Watts</th>
<th>Maximum Allowable Cable Length</th>
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<td></td>
<td>At 100 Volts</td>
<td>At 200 Volts</td>
</tr>
<tr>
<td>2.5</td>
<td>300</td>
<td>600</td>
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<td>5</td>
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<td>3600</td>
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<tr>
<td>20</td>
<td>2400</td>
<td>4800</td>
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</table>

Figure 5. Vibrator Head Insertion
DRIVE MOTOR INSPECTION

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

CARBON BRUSH REPLACEMENT

1. To gain access to the carbon brushes, remove the body cover from the motor (see Figure 6).

   Figure 6. Carbon Brush Replacement

   - Body Cover
   - Screw (4)
   - Screw (2)
   - Brush Holder (2)
   - Washer (Poly Carbonate) - (2)
   - Carbon Brush (2)
   - Cover
   - Screw (2)

2. Remove the screw and washer securing the brush holder.

3. Inspect the brush and replace when they become worn to a length of 3/8".

VIBRATOR HEAD LUBRICATION (300 HOURS)

1. Using a wrench, remove vibrator head tip (Figure 7) from vibrator head body. Have a cloth handy to catch any spilled oil.

   Figure 7. Adding Oil (Vibrator Head)

2. Drain old oil from vibrator head body (casing). Place oil in a suitable container. **DO NOT** pour oil on the ground.
NOTICE
Dispose used vibrator head oil in accordance with city, local and state environmental guidelines.

3. Fill vibrator head body with SAE 15 or AW MV ISO 46 type oil or equivalent.

4. **DO NOT** fill head body beyond capacity. Reference Table 6.

**NOTICE**
**DO NOT** overfill. Too much oil in the vibrator head will overload the drive motor.

---

### Table 6. Vibrator Head Oil Capacity

<table>
<thead>
<tr>
<th>120 Volt Models</th>
<th>240 Volt Models</th>
<th>Oil Capacity oz. (ml)#</th>
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</thead>
<tbody>
<tr>
<td>MGX12325</td>
<td>MGX22325</td>
<td>2.4 (70)</td>
</tr>
<tr>
<td>MGX12810</td>
<td>MGX22810</td>
<td>0.5 (15)</td>
</tr>
<tr>
<td>MGX12825</td>
<td>MGX22825</td>
<td>2.4 (70)</td>
</tr>
<tr>
<td>MGX13225</td>
<td>MGX23225</td>
<td>2.4 (70)</td>
</tr>
<tr>
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<td>MGX23810</td>
<td>0.5 (15)</td>
</tr>
<tr>
<td>MGX13825</td>
<td>MGX23825</td>
<td>2.4 (70)</td>
</tr>
</tbody>
</table>

### Table 7. Vibrator Head Wear Diameter

<table>
<thead>
<tr>
<th>120 Volt Models</th>
<th>240 Volt Models</th>
<th>New Head Dia. in. (mm)#</th>
<th>Head Dia. w/ Max Wear in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGX12325</td>
<td>MGX22325</td>
<td>.905 (23)</td>
<td>.842 (21.39)</td>
</tr>
<tr>
<td>MGX12810</td>
<td>MGX22810</td>
<td>1.1 (28)</td>
<td>1.02 (25.91)</td>
</tr>
<tr>
<td>MGX12825</td>
<td>MGX22825</td>
<td>1.1 (28)</td>
<td>1.02 (25.91)</td>
</tr>
<tr>
<td>MGX13225</td>
<td>MGX23225</td>
<td>1.25 (32)</td>
<td>1.16 (29.46)</td>
</tr>
<tr>
<td>MGX13810</td>
<td>MGX23810</td>
<td>1.5 (38)</td>
<td>1.39 (35.31)</td>
</tr>
<tr>
<td>MGX13825</td>
<td>MGX23825</td>
<td>1.5 (38)</td>
<td>1.39 (35.31)</td>
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</tbody>
</table>

---

**VIBRATOR HEAD WEAR (300 HOURS)**

1. Periodically measure the outside diameter (Figure 8) of the vibrator head casing.

2. Replace vibrator shaft/head assembly if head diameter is at maximum wear as specified in Table 7. See Table 2 for available models and specifications. Shaft/head assemblies should be replaced by a qualified technician.

---

**SHAFT LUBRICATION (200 HOURS)**

1. Place the vibrator on a suitable workbench. Make sure the area is clear of clutter.

2. Turn the plastic coupler holding the shaft to the motor clockwise until completely loose (Figure 9). If the coupler does not come off easily, place motor in a vise and hit the coupler with a rubber mallet to loosen.

3. Gently pull out flexible shaft collar to access the flex shaft core crimp. See Figure 10.
4. Place a 5/16-inch wrench on the flat side of the motor shaft coupling.

5. Using a pair of pliers, grip the flex shaft core crimp.

6. Turn the motor coupling clockwise with the wrench to remove shaft from motor.

7. Slowly pull the wire core from the shaft.

8. Inspect the core for broken wires, permanent set or other damage such as an area that indicates high wear or having overheated. If any of these conditions exist, replace shaft/head assembly.

9. Use the core to push a cleaning patch through the casing to remove any old grease or foreign matter that may have accumulated inside the casing.

10. Thoroughly clean wire core (Figure 11) if it is being reused. A wire brush may be required to remove hardened residue.

11. Apply a light amount of DuBois "TPG" lubricant (Figure 11) or a good grade bearing grease to the entire length of the wire core.

12. Reinstall wire core back into casing.

13. Align the flexible shaft core to the motor shaft.

14. Using a pair of pliers, grip the flex shaft core crimp.

15. Place a 5/16-inch wrench on the flat side of the motor shaft.

16. Turn the motor coupling counterclockwise with the wrench until tight.

17. Align and push the flexible shaft into the motor threaded connector.

18. Tighten the plastic coupler making sure shaft/head assembly is connected securely to the motor.

**NOTICE**

**DO NOT** use solvents to clean casing. Applying solvents to the core or casing may cause grease (lubricant) to breakdown, resulting in damage to the shaft.

**NOTICE**

**DO NOT** force casing full of grease. A tightly packed casing will load the drive motor which could lead to overheating.
### Table 8. Vibrator Troubleshooting

<table>
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<tr>
<th>Symptom</th>
<th>Possible Problem</th>
<th>Solution</th>
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<tr>
<td>Shaft Binding</td>
<td>Shaft kinked?</td>
<td>Straighten out shaft.</td>
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<tr>
<td></td>
<td>Defective shaft?</td>
<td>Replace shaft/head.</td>
</tr>
<tr>
<td>Leaking Vibrator Head</td>
<td>Too much oil in head casing?</td>
<td>Fill head casing to recommended level.</td>
</tr>
<tr>
<td></td>
<td>Head bearings/seals defective?</td>
<td>Replace shaft/head.</td>
</tr>
</tbody>
</table>
The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

**NOTICE**

The contents and part numbers listed in the parts section are subject to change without notice. Multiquip does not guarantee the availability of the parts listed.

**SAMPLE PARTS LIST**

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<tr>
<th>NO.</th>
<th>PART NO.</th>
<th>PART NAME</th>
<th>QTY</th>
<th>REMARKS</th>
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</thead>
<tbody>
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<tr>
<td>2%</td>
<td>12347</td>
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<td>3</td>
<td>12348</td>
<td>HOSE .............A/R ..........MAKE LOCALLY</td>
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<tr>
<td>4</td>
<td>12349</td>
<td>BEARING ..........1 ..........S/N 2345B AND ABOVE</td>
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**NO. Column**

**Unique Symbols** — All items with same unique symbol

(@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the “Remarks” column.

**Duplicate Item Numbers** — Duplicate numbers indicate multiple part numbers, which are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.

**QTY. Column**

**Numbers Used** — Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the “Remarks” Column.

**REMARKS Column**

Some of the most common notes found in the “Remarks” Column are listed below. Other additional notes needed to describe the item can also be shown.

**Assembly/Kit** — All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

“INCLUDES ITEMS W/(unique symbol)”

**Serial Number Break** — Used to list an effective serial number range where a particular part is used.

Indicated by:

“S/N XXXXX AND BELOW”
“S/N XXXX AND ABOVE”
“S/N XXXX TO S/N XXX”

**Specific Model Number Use** — Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

“XXXXX ONLY”
“NOT USED ON XXXX”

“Make/Obtain Locally” — Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

“Not Sold Separately” — Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.
### SUGGESTED SPARE PARTS

**MGX SERIES VIBRATORS**  
1 to 3 units

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**NOTICE**

Part numbers on this Suggested Spare Parts list may supersede/replace the part numbers shown in the following parts lists.
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PAYMENT TERMS
Terms of payment for parts are net 30 days.

FREIGHT POLICY
All parts orders will be shipped collect or prepaid with the charges added to the invoice. All shipments are F.O.B. point of origin. Multiquip’s responsibility ceases when a signed manifest has been obtained from the carrier, and any claim for shortage or damage must be settled between the consignee and the carrier.

MINIMUM ORDER
The minimum charge for orders from Multiquip is $15.00 net. Customers will be asked for instructions regarding handling of orders not meeting this requirement.

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

1. A Returned Material Authorization must be approved by Multiquip prior to shipment.
2. To obtain a Return Material Authorization, a list must be provided to Multiquip Parts Sales that defines item numbers, quantities, and descriptions of the items to be returned.
   a. The parts numbers and descriptions must match the current parts price list.
   b. The list must be typed or computer generated.
   c. The list must state the reason(s) for the return.
   d. The list must reference the sales order(s) or invoice(s) under which the items were originally purchased.
   e. The list must include the name and phone number of the person requesting the RMA.
3. A copy of the Return Material Authorization must accompany the return shipment.
4. Freight is at the sender’s expense. All parts must be returned freight prepaid to Multiquip’s designated receiving point.
5. Parts must be in new and resalable condition, in the original Multiquip package (if any), and with Multiquip part numbers clearly marked.
6. The following items are not returnable:
   a. Obsolete parts. (If an item is in the price book and shows as being replaced by another item, it is obsolete.)
   b. Any parts with a limited shelf life (such as gaskets, seals, “O” rings, and other rubber parts) that were purchased more than six months prior to the return date.
   c. Any line item with an extended dealer net price of less than $5.00.
   d. Special order items.
   e. Electrical components.
   f. Paint, chemicals, and lubricants.
   g. Decals and paper products.
   h. Items purchased in kits.
7. The sender will be notified of any material received that is not acceptable.
8. Such material will be held for five working days from notification, pending instructions. If a reply is not received within five days, the material will be returned to the sender at his expense.
9. Credit on returned parts will be issued at dealer net price at time of the original purchase, less a 15% restocking charge.
10. In cases where an item is accepted, for which the original purchase document can not be determined, the price will be based on the list price that was effective twelve months prior to the RMA date.
11. Credit issued will be applied to future purchases only.

PRICING AND REBATES
Prices are subject to change without prior 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 declines and added charges for price increases will not be made for stock on hand at the time of any price change.

Effective: February 22, 2006
HERE’S HOW TO GET HELP
PLEASE HAVE THE MODEL AND SERIAL NUMBER ON-HAND WHEN CALLING

UNITED STATES

**Multiquip Corporate Office**
18910 Wilmington Ave.
Carson, CA 90746
Contact: mq@multiquip.com

**Telephone:**
Tel. (800) 421-1244
Fax (800) 537-3927

**Service Department**
800-421-1244
Fax: 310-537-4259
310-537-3700

**Technical Assistance**
800-478-1244
Fax: 310-943-2238

**MQ Parts Department**
800-427-1244
Fax: 800-672-7877
310-537-3700
Fax: 310-637-3284

**Warranty Department**
800-421-1244
Fax: 310-943-2249
310-537-3700

UNITED KINGDOM

**Multiquip (UK) Limited Head Office**
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Globe Lane,
Dukinfield, Cheshire SK16 4UJ
Contact: sales@multiquip.co.uk

**Telephone:**
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Fax: 0161 339 3226

MEXICO

**MQ Cipsa**
Carr. Fed. Mexico-Puebla KM 126.5
Momoxpan, Cholula, Puebla 72760 Mexico
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**Telephone:**
Tel: (52) 222-225-9900
Fax: (52) 222-285-0420

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**Multiquip**
4110 Industriel Boul.
Laval, Quebec, Canada H7L 6V3
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**Telephone:**
Tel: (450) 625-2244
Fax: (450) 625-8664

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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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Your Local Dealer is: