"ERGO-TAMP"

This manual covers the following serial numbers and higher for each model listed:

Ergo-Tamp.......................... 7860150

PROBLEM SOLVING
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SAFETY INFORMATION . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
CALIFORNIA PROPOSITION 65 WARNING

Engine exhaust and some of its constituents are known in the state of California to cause cancer, birth defects, and other reproductive harm.
Introduction

This Safety Alert Symbol is used to call attention to items or operations which may be dangerous to those operating or working with this equipment. The symbol can be found throughout this manual and on the unit. Please read these warnings and cautions, along with all decals, carefully before attempting to operate the unit. Make sure every individual who operates or works with this equipment is familiar with all safety precautions.

**WARNING**

GENERAL WARNING. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

**CAUTION**

GENERAL CAUTION. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment.

Safety Precautions

**LETHAL EXHAUST GAS:** An internal combustion engine discharges carbon monoxide, a poisonous, odorless, invisible gas. Death or serious illness may result if inhaled. Operate only in a properly ventilated area. NEVER OPERATE IN A CONFINED AREA!

**DANGEROUS FUELS:** Use extreme caution when storing, handling and using fuels, as they are highly volatile and explosive in vapor state. Do not add fuel while engine is running. Stop and cool the engine before adding fuel. DO NOT SMOKE!

**SAFETY GUARDS:** It is the owner’s responsibility to ensure that all guards and shields are in place and in working order.

**IGNITION SYSTEMS:** Breakerless, magneto, and battery ignition systems can cause severe electrical shocks. Avoid contacting these units or their wiring.

**SAFE DRESS:** Do not wear loose clothing, rings, wristwatches, etc. near machinery.

**NOISE PROTECTION:** Wear OSHA specified hearing protection devices.

**EYE PROTECTION:** Wear OSHA specified eye shields, safety glasses, and sweat bands.

**FOOT PROTECTION:** Wear OSHA specified steel-tipped safety shoes.

**HEAD PROTECTION:** Wear OSHA specified safety helmets.

**OPERATOR:** Keep children and bystanders off and away from the equipment.

**DUST PROTECTION:** Machining, crushing or handling of stone, concrete, masonry, metal and other materials may generate dust, mist and fumes containing chemicals such as silica, known to cause serious or fatal injury or illness, such as respiratory disease, silicosis, cancer, birth defects, or other reproductive harm.

- Control dust, mist and fumes at the source where possible.
- Water should be used to control dust whenever feasible.
- Use good work practices and follow the recommendations of the manufacture, OSHA/NIOSH and other occupational trade associations.
- When hazards cannot be eliminated the operator and any bystanders should always wear a OSHA specified respirator for materials being handled.

**REFERENCES:** For details on safety rules and regulations in the United States, contact your local Occupational Safety and Health Administration (OSHA) office. Equipment operated in other countries must be operated and serviced in accordance and compliance with any and all safety requirements of that country. The publication of these safety precautions is done for your information. MBW does not by the publication of these precautions, imply or in any way represent that these are the sum of all dangers present near MBW equipment. If you are operating MBW equipment, it is your responsibility to insure that such operation is in full accordance with all applicable safety requirements and codes. All requirements of the United States Federal Occupational Safety and Health Administration Act must be met when operated in areas that are under the jurisdiction of that United States Department.

Safety Decals

Carefully read and follow all safety decals. Keep them in good condition. If decals become damaged, replace as required. If repainting the unit, replace all decals. Decals are available from authorized MBW distributors. Order the decal set listed on the following page(s).
DANGER
TAMPER JUMPS DURING START-UP. DO NOT PLACE ANY BODY PART ABOVE MACHINE OR BODILY INJURY MAY RESULT.

WARNING
Operating, servicing and maintaining this equipment can expose you to chemicals, including engine exhaust, phthalates and lead, which are known to the state of California to cause cancer and birth defects or other reproductive harm. Avoid breathing engine exhaust. Do not operate equipment in confined areas. For more information go to www.P65Warnings.ca.gov.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>786C</th>
<th>786CS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Weight</strong></td>
<td>39.3 lbs (17.8kg)</td>
<td>38.1 lbs (17.2 kg)</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>74” (188 cm)</td>
<td>60” (152cm)</td>
</tr>
<tr>
<td><strong>Foot Diameter</strong></td>
<td>6” (15.2 cm)</td>
<td>6” (15.2 cm)</td>
</tr>
<tr>
<td><strong>Maximum Pressure</strong></td>
<td>140 psi (965 KPa)</td>
<td>140 psi (965 KPa)</td>
</tr>
<tr>
<td><strong>Air Consumption</strong></td>
<td>38 cfm (1.1 m³/m)</td>
<td>38 cfm (1.1 m³/m)</td>
</tr>
<tr>
<td><strong>Vibration Isolation</strong></td>
<td>up to 77%*</td>
<td>up to 77%*</td>
</tr>
<tr>
<td><strong>Blows per Minute</strong></td>
<td>UP TO 800 bpm</td>
<td>UP TO 800 bpm</td>
</tr>
</tbody>
</table>

Specifications subject to change without notice

* Under ideal conditions, actual vibration isolation may vary with compactor type and compaction conditions
**Introduction**

MBW equipment is intended for use in very severe applications. The Ergo-Tamp’s versatility makes it ideal for small compaction areas while providing MBW’s known reliability and compaction abilities.

This parts manual contains only standard parts. Variations of these parts as well as other special parts are not included. Contact your local MBW distributor for assistance in identifying parts not included in this manual.

**Installation**

1. Remove all pressure from air supply.
2. Connect air supply to Ergo-Tamp.
3. Slowly deliver pressure from air supply to Ergo-Tamp.
   - Depending on air supply method, adapter(s) may be needed to make connections.
   - To ensure connections do not leak, MBW recommends using a pipe sealant on the threads of the Ergo-Tamp.

**Before Starting & Operating**

- **REMEMBER!** It is the owner’s responsibility to communicate information on the safe use and proper operation of this unit to the operators.
- Review ALL of the Safety Precautions listed on page 1 of this manual.
- Familiarize yourself with the operation of the machine and confirm that all controls function properly.
- Know how to STOP the machine in case of an emergency.
- Make sure hands, feet, and clothing are at a safe distance from any moving parts.
- Verify that all joints are tight.

**Operating Ergo-Tamp**

**WARNING**

Follow all recommended operating procedures of pole tamper manufacturer. Failure to do so could result in serious bodily injury or death.

1. Connect air supply hose to Handle Assembly.
2. Grasp Tamper assembly on the main body of the Handle Assembly (anywhere between the two bellows).
WARNING
Do not place any part of body above pole tamper assembly. Device will “Jump” when air is activated.

3. Depress trigger to begin tamping.
4. Release trigger to stop device.
• Initiating the Ergo-Tamp might result in a slight delay in operation, this is normal.

CAUTION
PINCH HAZARD: Avoid placing hands below main body of the MBW Vibration Suppressor

• The MBW Ergo-Tamp is a spring loaded device. Efficiency of isolation will depend on many factors including air pressure, pole tamper type and operator input. When operating, try to find the correct down pressure that results in the least amount of transmitted vibration.

Storage
• The MBW Ergo-Tamp is made of high quality corrosive resistant components. To lengthen the life of the entire tamper assembly, drop a small amount of light oil into trigger assembly and run device for a minute before long term storage.
MAINTENANCE

WARNING
Always exercise the stopping procedure before servicing or lubricating the unit.

After servicing the unit, replace and fasten all guards, shields, and covers to their original positions before resuming operation.

CAUTION
Always verify fluid levels and check for leaks after changing fluids.

Do not drain oil onto ground, into open streams, or down sewage drains.

Maintenance Schedule

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>MAINTENANCE</th>
<th>DAILY</th>
<th>EVERY 50 HOURS</th>
<th>EVERY 250 HOURS</th>
<th>YEARLY</th>
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<tbody>
<tr>
<td>Hardware</td>
<td>Check and tighten as needed¹</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Suppressor</td>
<td>Grease suppressor shaft</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

¹. Check all hardware after the first 5 hours of use, then follow the maintenance schedule.

Ergo-Tamp Oil

The MBW Ergo-Tamp requires an inline oil supply to function. Use of the tamper without an inline oiler will damage the internal surfaces. A suitable oiler can be purchased through MBW, Part #12248.

In event the tamper will be stored, pour several drops of oil into the line to prevent corrosion.

Suppressor Grease

The MBW Ergo-Tamp requires maintenance of the suppressor shaft (#5), Refer to Refer to Handle Assembly, page 10. Grease shaft whenever excess hand arm vibration is noticed. To complete maintenance perform the following steps.

1. Remove bottom zip tie (#17) from top bellow (#11) and top zip tie (#17) from bottom bellow (#11).
2. Lift bellows (#11) and apply several ounces of grease into inner shaft suppressor (#6).
3. Reposition the bellows (#11) and secure with new zip ties (#17).
Assembly and disassembly should be performed by a service technician who has been factory trained on MBW equipment. The unit should be clean and free of debris. Pressure washing before disassembly is recommended.

- Prior to assembly, wash all parts in a suitable cleaner or solvent.
- Check moving parts for wear and failure. Refer to the Replacement section in this manual for tolerance and replacement cycles.
- All seals and bearings should be oiled prior to assembly. Also, ensure that the seals are inserted square and are seated properly.
- Leaking air caused by worn seals will decrease performance of Ergo-Tamp.

General
The disassembly and assembly procedures given here are intended for a complete dismantling of the MBW Ergo-Tamp. Read the following sections carefully.

Handle and Tamper Separation
Refer to Handle Assembly, page 10.
1. Remove the bottom zip tie (#17) from the bellows (#11)
2. Loosen jam nut (#21) from tamper cap and unscrew Tamper Assembly from Handle Assembly.

Handle Disassembly
Refer to Handle Assembly, page 10.
3. Detach the hose (#16) from cap (#12) and fitting (#3).
4. Remove the zip ties (#17) from both bellows (#11).
5. Unscrew the jam nut (#21) from the hand guard (#9) and slide guard off of handle.
6. Slide inner shaft (#6) up out of outer tube (#5).
7. Slide bellows (#11) and springs (#18) off.
8. Remove coupler (#2) from valve body. Don’t loose the spring (#19)
9. Remove the two screws (#22) from the hand guard (#9) and slide guard off of handle.
10. Unthread lower and upper bushing (#8, #14). (Note: Due to thread locking compound used in assembly heat might be need to help loosen bushings.)
11. Slide valve body assembly (#4) off of outer tube (#5).
12. Using a 10-32 bolt, pull the spool (#7) out of the valve body (#4), then separate the o-ring (#10) and valve seal (#1).

Handle Assembly
Refer to Handle Assembly, page 10.
1. Lubricate new o-ring (#10) with air tool oil and then place on spool (#7).
2. Lubricate valve seal (#1) and spool (#7) and insert in valve body (#4).
3. Slide valve body (#4) onto outer tube (#5).
4. Using medium-strength thread locking compound, screw lower bushing (#8) and upper bushing (#14) (through valve body (#4)) to outer tube (#5).
5. Slide hand guard (#9) into position and secure with the two bolts (#22).
6. Insert conical spring (#19), narrow end first, into valve body, then screw coupler (#2) in. Use pipe sealing compound on threads of coupler.
7. Grease inner shaft (#6) and slide into outer tube (#5). The end with the longer threads needs to be towards the bottom of the handle.
8. Slide the springs (#18) onto the inner shaft (#6) and then cover springs with bellows (#11).
9. Secure top spring (#18) with cap (#12) and bottom spring (#18) with jam nut (#21).
10. Seat two zip ties (#17) to both bellows (#11). (Note: Position zip ties to fit into grooves of parts ).
11. Attach hose (#16) to fitting (#3) and cap (#12).

Tamper Disassembly
Refer to Tamper Assembly, page 12.
1. Remove bolt (#24) and tap the tamper foot (#23) off from shaft (#14).
2. Remove retaining ring (#22), lift locking ring (#21) and remove cap (#15).
3. Remove shim (#5) and wiper (#3) from bottom cap (#15).
4. Slide bushing support (#8) out of body (#10) and remove seal set (#4) and o-ring (#16).
5. Grasp shaft (#14) and remove from body (#10).
6. Take out the four screws (#20) from the top shroud cover (#7).
7. While holding the outer shroud (#6) push the body (#10) into the shroud.
8. With body (#10) out of outer shroud (#6), remove retaining ring (#19) from cap (#13) and then slide upper shroud cover off (#7).

9. Loosen hose camps (#1) from air hose (#18) and then remove air hose from elbows (#2).

10. Using a metal rod placed through holes in the Tamper body (#10) unscrew cap (#13).

11. Separate valve upper (#11), lower (#12), o-ring (#16), and valve disc (#9) from cap (#13) (Note: Inspect components for wear and replace if necessary).

Tamper Assembly

Refer to Tamper Assembly, page 12.

1. Place new o-ring (#16) on to lower valve (#12).

2. Assemble upper valve (#12) lower valve (#13), and valve disc (#9), then insert into cap (#13). (Note: Make sure valve disc (#9) stays seated).

3. Using medium-strength thread locking compound, along with a metal rod placed through holes in Tamper body (#10), screw cap (#13) over valve assembly onto body (#10).

4. Install air hose (#18) onto hose elbow (#2) and secure using hose camps (#1).

5. Using retaining ring (#19) secure upper shroud cover (#7) to Tamper cap (#13).

6. Slide outer shroud cover (#6) up from bottom and connect to upper shroud cover (#7). Secure with four screws (#20).

7. Feed lower shroud (#17) into shroud cover (#6) and secure with four screws (#20).

8. Place new o-ring (#16) onto bushing support (#8) and seal set (#4) into bushing support (#8) (Note: Position seal set as shown below).

9. Install new shaft wiper (#3) and shim (#5) into bottom cap (#15).

10. Lubricate head of shaft assembly (#14) with air tool oil and slide into body (#10)

11. Position retaining ring (#22) and locking ring (#21) over bottom of tamper body.

12. Using air tool oil on bushing support (#8) feed support into Tamper body (#10) and hand tighten bottom cap (#15).

13. Secure bottom cap (#15) into position with locking ring and retaining ring. (Note: Check ease of shaft (#14) movement. If bottom cap (#17) is to tight shaft movement will be difficult).

14. Using medium-strength thread locking compound on bolt (#24) secure foot (#23) to shaft (#14). Torque to 80 ft lb. NOTE: To ensure proper tightening of ergotamp shoe, retorque after first 15 minutes or operation.

Handle Replacement Cycles and Tolerances

<table>
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<th>Bushings</th>
<th>When bearing material has significant wear</th>
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<tr>
<td>Seal and Wiper</td>
<td>When air leakage occurs</td>
</tr>
<tr>
<td>Springs</td>
<td>When significant wear is noticed</td>
</tr>
<tr>
<td>Tube</td>
<td>When inside of tube becomes scoured or galled</td>
</tr>
<tr>
<td>Shaft</td>
<td>When shaft become bent or surface becomes scratched</td>
</tr>
</tbody>
</table>

Tamper Replacement Cycles and Tolerances

| Shaft               | If shaft is bent it needs to be replaced   |
REPLACEMENT PARTS

The warranty is stated in this book on page 14. Failure to return the Warranty Registration Card renders the warranty null and void.

MBW has established a network of reputable distributors/dealers with trained mechanics and full facilities for maintenance and rebuilding, and to carry an adequate parts stock in all areas of the country. Their sales engineers are available for professional consultation. If you cannot locate an MBW distributor in your area, contact MBW or one of our Sales Branches listed below.

When ordering replacement parts, be sure to have the following information available:

- Model and Serial Number of machine when ordering MBW parts
- Part Number, Description, and Quantity
- Company Name, Address, Zip Code, and Purchase Order Number
- Preferred method of shipping

REMEMBER - You own the best! If repairs are needed, use only MBW parts purchased from authorized MBW distributors.

The unit's serial number can be found on the decal located on the Handle Assembly.

Write Model Number here

Write Serial Number here

Contact Information

MBW, Inc.
250 Hartford Rd • PO Box 440
Slinger, WI 53086-0440
Phone: (262) 644-5234
Fax: (262) 644-5169
Email: mbw@mbw.com
Website: www.mbw.com

MBW (UK) Ltd.
Units 2&3 CochraneStreet
Bolton BL3 6BN
England, UK
Phone: 44 (0) 01204 387784
Fax: 44 (0) 01204 387797
E-mail: saleseurope@mbw.com
Website: www.mbweurope.com
Handle Assembly
<table>
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<th>PART NO.</th>
<th>DESCRIPTION</th>
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<th>QTY 786CS</th>
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**REPLACEMENT KITS:**

- **20900** HANDLE ASSEMBLY (Includes all above items for 786C)
- **21296** HANDLE ASSEMBLY, SHORT (Includes all items for 786CS)
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<td>20930</td>
<td>CAP, BOTTOM</td>
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<td>16.</td>
<td>20931</td>
<td>O-RING, 1/8 X 1 1/2 OD</td>
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<td>20934</td>
<td>SHROUD, LOWER</td>
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<td>18.</td>
<td>20958</td>
<td>AIR HOSE, 3/8</td>
<td>12&quot;</td>
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<td>19.</td>
<td>20959</td>
<td>RETAINING RING, EXT, 2.25</td>
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<td>21009</td>
<td>PLASTIC SCREW, TORX</td>
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<td>21.</td>
<td>21029</td>
<td>LOCKING RING</td>
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<td>22.</td>
<td>21030</td>
<td>RETAINING RING, EXTERNAL, 2.38</td>
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<td>23.</td>
<td>21288</td>
<td>SHOE, ERGOTAMP, 6&quot;STEEL</td>
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<td>24.</td>
<td>21295</td>
<td>FHS, 1/2-13 X 1 GR8</td>
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**REPLACEMENT KITS:**

- 20950 TAMPER ASSEMBLY (Includes all above items)
- 21290 SHOE, ERGOTAMP, 4-1/2" STEEL
- 21079 SHAFT ASM, SERVICE WITH SHOE, (Includes 14, 23, 24)
- 21350 KIT, TAMPER SHAFT, SHOE, AND SEALS (Includes 3-5, 8, 14-16, 21-24)
WARRANTY

1. MBW warrants each new machine against defects in material and workmanship under normal use and service for a period of six (6) months. This warranty commences the first day the machine is sold, assigned to a rental fleet, or otherwise put to first use.

2. The obligation under this warranty is limited to the replacement or repair of parts and/or machine at MBW factory branches or at authorized MBW distributors.

3. Machines altered or modified without MBW written consent voids this warranty. Misuse, negligence, accidents or the operation of machines in any way other than recommended by MBW will void this warranty. This warranty shall not apply to machines repaired by other than MBW factory branches or authorized MBW distributors.

4. This warranty includes labor on all MBW products. Labor must be performed at an authorized MBW distributor.

5. The cost of transportation and other expenses connected therewith are not covered by this warranty.

6. Written authorization for the return of merchandise under warranty must be obtained from MBW or MBW (UK) Limited.

7. MBW reserves the right to inspect and render final decision on each warranty case.

8. MBW reserves the right to improve or make product changes without incurring any obligation to update, refit, or install the same on machines previously sold.

9. MBW is not responsible for any liability or damage or injury directly or indirectly from design, material or operation of its products.

10. Warranty card must be returned to MBW or MBW (UK) Limited within 10 days after purchase, assignment to a rental fleet, or first use. Failure to return warranty card as specified renders the warranty null and void.

11. Requests for warranty must be submitted within 30 days after machine failure to MBW or MBW (UK) Limited.

12. The foregoing warranty is expressly in lieu of all other warranties, expressed or implied, including the warranties of merchantability and fitness for use, and of all other obligation or liabilities on our part, and we neither assume nor authorize any other person to assume for us any other liability or warranty in connection with the sale or service of any of our products. Likewise, this warranty shall not apply with respect to engines, motors and other component parts produced by other manufactures and used on MBW products, but such items shall have such warranties as may be provided by the manufacturer thereof.