

5-lb. VIBRATORY TUMBLER (240V/50Hz, UK Plug)

ITEM SB948

ASSEMBLY & OPERATING INSTRUCTIONS



Diagrams within this manual may not be drawn proportionally.
Due to continuing improvements, actual product may differ slightly from the product described herein.



**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

SPECIFICATIONS

Electrical Input	240V/50Hz
Capacity(kg//lbs)	2.2//5
Tumbler Bowl Opening Diameter(mm//in)	200//7-3/4
Tumbler Bowl Depth(mm//in)	115//4-5/8

SAVE THIS MANUAL

Save this manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

SAFETY WARNINGS AND PRECAUTIONS

General tool Safety Warnings

WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage.

Read all instructions before using this tool!

- 1. Keep work area clean.** Cluttered areas invite injuries.
- 2. Observe work area conditions.** Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lighted. Do not use electrically powered tools in the presence of flammable gases or liquids.
- 3. Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cords.
- 4. Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
- 5. Do not force tool.** It will do the job better and more safely at the rate for which it was intended. Do not use inappropriate attachments in an attempt to exceed the tool capacity.
- 6. Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
- 7. Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
- 8. Use eye and ear protection.** Always wear ANSI approved impact safety goggles. Wear a full face shield if you are producing metal filings or wood chips. Wear an ANSI approved dust mask or respirator when working around metal, wood, and chemical dusts and mists.
- 9. Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines. Keep hands and fingers clear of the Roll Dies when operating.

- 10. Maintain tools with care.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged, have them repaired by an authorized technician. The handle must be kept clean, dry, and free from oil and grease at all times.
- 11. Disconnect power.** Unplug when not in use.
- 12. Remove adjusting keys and wrenches.** Check that keys and adjusting wrenches are removed from the tool or machine work surface before plugging it in.
- 13. Avoid unintentional starting.** Be sure the switch is in the Off position when not in use and before plugging in.
- 14. Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
- 15. Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn on and off properly.
- 16. Guard against electric shock.** Prevent body contact with grounded surfaces such as pipes, radiators, ranges and refrigerator enclosures.
- 17. Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool.
- 18. Do not operate tool if under the influence of alcohol or drugs.** Read warning labels if taking prescription medicine to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
- 19. Maintenance.** For your safety, service and maintenance should be performed regularly by a qualified technician.
- 20. Workpiece may be sharp.** After bending or cutting workpieces use caution. Be aware of sharp edges or sharp shreds of metal that may be created. Use heavy duty gloves when handling the workpiece.

NOTE: Performance of this tool may vary depending on variations in local line voltage. Extension cord usage may also affect tool performance.

WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Tumbler Safety Warnings

1. Do not use ceramic, wet or water based media in tumbler. Use only plastic beads, ground corn cobs, walnut shells, etc.
- ~~D~~ Do not use to polish stones. A rotary tumbler (such as Rotary Rock Tumbler or Dual Drum Rotary Rock Tumbler) and water-mixed media is required for polishing stones.
- ~~D~~ Do not exceed 5 lb. tank capacity.
- ~~D~~ Do not use without Cover (10#) in place. Hazardous dust may be created and media and/or work materials may be ejected.

5. Do not remove Cover immediately after use. Wait at least 1 hour after tumbling is complete before opening cover. This will allow dust to settle.
6. Do not place items on Cover during use.
7. When servicing use only identical replacement parts.
8. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.
9. 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.
10. Industrial applications must follow OSHA guidelines.
11. Maintain labels and nameplates on the tool. These carry important safety information.
12. Avoid unintentional starting. Prepare to begin work before turning on the tool.
13. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
14. **WARNING:** Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

FEATURES

1. Vibratory Tumbler is Ideal for bench top polishing, descaling , deburring, and surface conditioning.
2. Unit is fast, quiet, and effective.
3. Heavy Polymer Bowl.

UNPACKING

When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please contact the seller.

OPERATION

Choosing a Media

The media used in standard tumblers is generally not suitable for vibratory machines. Any media that is run wet is NOT suitable for this tumbler. Vibratory tumblers often use dry media that is too light to be effective in standard tumblers. Steel and ceramic media, generally used in tumbling, may also be used in heavy duty vibratory machines. However, ~~designed to work~~ designed to work with heavy duty media. There is a wide variety of media to be used in vibratory finishing. The chart below outlines the recommended media for this tumbler.

For Degreasing: use corncob, walnut shell or plastic media. Tumble for 30 minutes to 1 hour.

Remove Rust: use plastic media. Depending on the condition of the materials, tumble for 2 - 6 hours.to polish: tumble in walnut shell or corncob media. Do not add water. Add a small amount of commercial metal polish.note: Plastic beads are usually used with a powdered abrasive added. CautiOn! Walnut shells can create an oil during use, which can lead to slight discoloring of object.

Name	Application	Feature
80 Grit Glass Bead Blast Media	Metal and plastic surfaces	Non-damaging to soft metals like aluminum and
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220 Grit Aluminum Oxide Abrasive	Cleaning, finishing and deburrin	Removes rust, corrosion and paint
Coarse Grade Walnut Shell Media	Cleans aluminum and brass	Rust-free paint removal; cleans transmissions and engines
Fine Grade Walnut Shell Media	Cleans aluminum and brass	Rust-free paint removal; cleans transmissions and engines
Rust-Cutting Resin Abrasive Media	Metal bolts and nuts	Removes rust from bolts and nuts without damaging threads
30-40 Grit Plastic Abrasive Media	Aluminum, chrome, antiques and aluminum aircraft	Fast removal of paint, light oxidation and even

Workpiece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.

General Operating Instructions

Note: Use this tumbler for the following finishing applications:

- * Removing rust or other surface imperfections from hardware.
- * Removing burrs from machined or stamped hardware or other small parts.
- * Polishing small parts.
- * Removing any contaminants from various metal parts.

1. Make sure Tank interior is dry before each use.
2. Fill the Tumbler Bowl (2#) about 2/3 full with polishing media .Add metal parts as needed up to a maximum of 5 lbs.of material(including media).Do not overfill.

NOTE:

Maximum capacity is 5 lbs.and about 2/3 full tank.Overfilling will cause the polishing processto go much slower.If the Tumbler is running too slowly,simply remove some items and restart.

3. Place the Cover(10#) on the tumbler bowl,make sure that Threaded Shaft (8#) is correctly in place. Add the Ring(14#) and Washer(24#) and finger-tighten firmly using the Nut (23#).
4. Connect the Power Cord with Switch (16#) to the nearest power outlet and press the switch to "ON".

CAUTION! Do not place any items on the Cover while the Tumbler is operating.

CAUTION! Never tumble with the Cover off, as hazardous dust may be created, and the media or work materials may be ejected from the tumbler.

5. When the tumbling is completed,press the power switch to OFF("O") before opening the tumbler.
6. To prevent accidents,turn off the tool and disconnect its power supply afftter use. Clean, then store the tool indoors out of children's reach.

MAINTENANCE



Procedures not specifically explained in this manual must be performed only by a qualified technician.

Note: For additional information regarding the parts listed in the following pages, refer to the assembly Diagram near the end of this manual.**TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:** Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE**, inspect the general condition of the tool. Check for:
 - loose hardware,
 - misalignment or binding of moving parts,
 - cracked or broken parts,
 - damaged electrical wiring, and
 - any other condition that may affect its safe operation.
2. Check that Rubber Ring(3#) is in good condition and in place. Replace if damaged.
3. The Feet (19#) at the bottom of the Base (1#) may eventually wear out. Inspect these periodically. If worn, replace.
4. Protect the Motor (5#) from water and moisture. Store Tumbler in a dry location when not in use.
5. **AFTER USE**, wipe external surfaces of the tool with clean cloth.
6. **WARNING!** If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

TROUBLESHOOTING

Problem	Possible Causes	Likely Solutions
Tool will not start.	<ol style="list-style-type: none"> 1. Cord not connected. 2. No power at outlet. 3. Tool's thermal reset breaker tripped (if equipped). 4. Internal damage or wear. (Carbon brushes or switch, for example.) 	<ol style="list-style-type: none"> 1. Check that cord is plugged in.. 2. Check power at outlet. If outlet is unpowered, turn off tool check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads. 3. Turn off tool and allow to cool. Press reset button on tool. 4. Have technician service tool.
Tool operates slowly.	Extension cord too long or wire size too small.	Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load.
Performance decreases over time.	<ol style="list-style-type: none"> 1. Accessory dull or damaged. 2. Carbon brushes worn or damaged. 	<ol style="list-style-type: none"> 1. Keep cutting accessories sharp. Replace as needed. 2. Have qualified technician replace brushes.
Excessive noise or rattling.	Internal damage or wear. (Carbon brushes or bearings, for example.)	Have technician service tool.
Overheating.	<ol style="list-style-type: none"> 1. Forcing machine to work too fast. 2. Blocked motor housing vents. 3. Motor being strained by long or small diameter extension cord. 	<ol style="list-style-type: none"> 1. Allow machine to work at its own rate. 2. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air. 3. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load.
<p>Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.</p>		

PARTS LIST

Part No.	Description	Qty
1	Base	1
2	Tumbler Bowl	1
3	Rubber Ring	1
4	Tank Base	1
5	Motor	1
6	Motor Frame	4
7	Screw M6×30	4
8	Threaded Shaft	1
9	Rubber Mat	1
10	Cover	1
11	Seal Ring	1
12	Rubber Gasket	8
13	Vibration Weight	1
14	Ring	2
15	Nut M6	1
16	Power Cord with Switch	1
17	Spring Washer 6mm	2
18	Connector	1
19	Foot	3
20	Nut M6	5

Part No.	Description	Qty
21	Washer 6mm	14
22	Screw 3.5×16	3
23	Nut M6×1	1
24	Washer 6mm	2
25	Screw M4×14	15
26	Spring	4
27	Washer 4mm	7
28	Nut M4	7
29	Screw M6×35	4
30	Nut M6	5
31	Screw M5×16	1
32	Net	1
33	board	1
34	board	1
35	Spring Washer 4mm	4
36	Screw M4×8	1
37	Capacitor Base	1
38	Capacitor	1
39	Cable Tie	1

PARTS DIAGRAM

