MBX® ELECTRIC

PREPARATION FROM SCRATCH

MONTIPOWER
Surface Preparation Technologies
Part of Monti Group

Thank you for buying the MBX® Electric. Please read this Operator's Instruction Manual in its entirety and follow all of the safety rules provided for your protection. To operate this tool safely and effectively, you must read and follow the operating and safety instructions completely.

MONTI - Werkzeuge GmbH, as manufacturer of this product, accepts no liability whatsoever for any direct or consequential damage caused by: (a) the incorrect use, operation, maintenance or servicing of this product; or (b) any use or operation not conducted in accordance with the instructions and warnings set forth in this Operating Manual..

SAVE THIS OPERATOR'S MANUAL FOR FUTURE REFERENCE.

GENERAL SAFETY RULES

WARNING: When using Electric Tools, always follow all basic safety precautions to reduce the risks of injury or loss of life, and to prevent electric shock and other personal injuries.

Work Area

1. Keep work area clean. Cluttered areas and benches invite injuries.

2. Keep children and all other unauthorized persons away from work area, and from tools or extension cords.

3. Always operate this tool in a well-ventilated area. NEVER operate this tool near flammable liquids or gases. The motor in this tool normally sparks, and sparks might ignite fumes.

Electrical Safety

4. NEVER expose power tools to rain. NEVER operate power tools in damp or wet locations.
Keep work area fully lighted for maximum visibility.
NEVER allow water to enter the power tool, because this will increase the risk of electric shock.

5. Guard against electric shock. Avoid body contact with grounded surfaces, such as pipes, radiators, ranges, and refrigerator enclosures.

6. Don't abuse the cord. Never carry this tool by the cord or yank it to disconnect from the receptacle.
Keep the cord away from heat, oil, and sharp edges.

7. When using the tool outdoors, use only extension cords intended and labeled for use outdoors.
Refer to the section "Extension Cord".

Personal Safety

8. Dress properly. NEVER wear loose clothing or jewelry or other clothing that can be caught in moving parts.
Use rubber gloves and non-skid footwear when working outdoors.
Wear protective hair covering to prevent long hair from being caught in moving parts.

9. Always wear safety goggles or other eye protection and a dust mask when using this tool.

10. Don't overreach while operating this tool. Maintain solid footing and balance at all times.

11. Remove the Allen-key after installing the MBX® accessory.
Always ensure that the Allen-key is removed before you turn on the tool.

12. Avoid starting the tool unintentionally. Never carry the plugged-in tool while your finger is on the "on/off" switch button.
Be sure the switch is in the off position when you plug in the tool.

13. Stay alert. Watch what you are doing. Use common sense. Never operate this or any other tool when you are tired.

Tools use and Care

14. Store tools in a dry, secure place, out of the reach of children and other unauthorized persons, when not in use.

15. NEVER force this tool to operate at an excessive speed or pressure. The tool will operate effectively and safely only at the operating rates for which it was designed.

16. Use this tool only with MBX® accessories, and select the appropriate MBX® accessory for the job.

17. Always operate the tool on an electrical current of the rated voltage.
Unstable voltage may damage the tool or cause injury.

18. Use clamps or a vise to secure the items to be stripped. Always use both hands to operate the tool.

19. Maintain tools with care. Keep tools and accessories sharp and clean for effective and safe performance. Follow the instructions for lubricating and changing accessories. Inspect electrical cords periodically and replace if damaged. Keep the vertical grip and the tool body dry, clean, and free from oil and grease. Periodically blow the air vent with an air gun to ensure clear airflow.

20. Disconnect tools when not in use, before servicing, and when changing accessories.

21. Before each use, check for damaged or broken parts, alignment or binding of moving parts, mounting, and any other conditions that may affect operation of the tool. NEVER use the tool if it is damaged or misaligned in any way.
All damaged safety guards, switches, or other damaged parts must be repaired or replaced by an authorized service technician, unless otherwise indicated elsewhere in this Instruction Manual.
NEVER use this tool if the "on-off" switch is broken.

22. All tool service must be performed only by qualified repair personnel at the dealer from which you purchased the tool.
Allowing unqualified personnel to perform service or maintenance could result in injury to the operator and/or damage to the tool.

23. When servicing this tool, use only identical replacement parts. Using unauthorized parts or failing to follow Maintenance Instructions will void warranties and create a risk of electrical shock or injury.

WARNING:

The dust created by stripping certain materials may contain chemicals known to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

* Lead from lead-based paint,
* Crystalline silica from bricks and cement and other masonry products, and
* Arsenic and chromium from chemically treated lumber.

To reduce your exposure to these chemicals, ALWAYS:

* Work in a well ventilated area, and
* Wear OSHA-approved safety equipment, including dust masks specially designed to filter out microscopic particles, gloves, safety goggles, and other appropriate personal protective gear.

SPECIFIC SAFETY RULES – MBX® VINYL ZAPPER®

1. Use this tool (MBX® Electric) only with the MBX® Vinyl Zapper® (or with MBX® belts 11 & 23 mm) attached. Other conventional accessories cannot be fitted to this tool.
Attempting to force other accessories to fit the tool may result in injury or accident.

2. Hold the tool with both hands grasping the vertical grip and tool body.

3. Keep hands away from the spinning MBX® Vinyl Zapper®.

4. Use the MBX® Vinyl Zapper® only for the specified purposes, such as removing vinyl stickers, double-side tapes,
and decals.

5. NEVER apply MBX® Vinyl Zapper® to any soft objects, or to persons or animals.

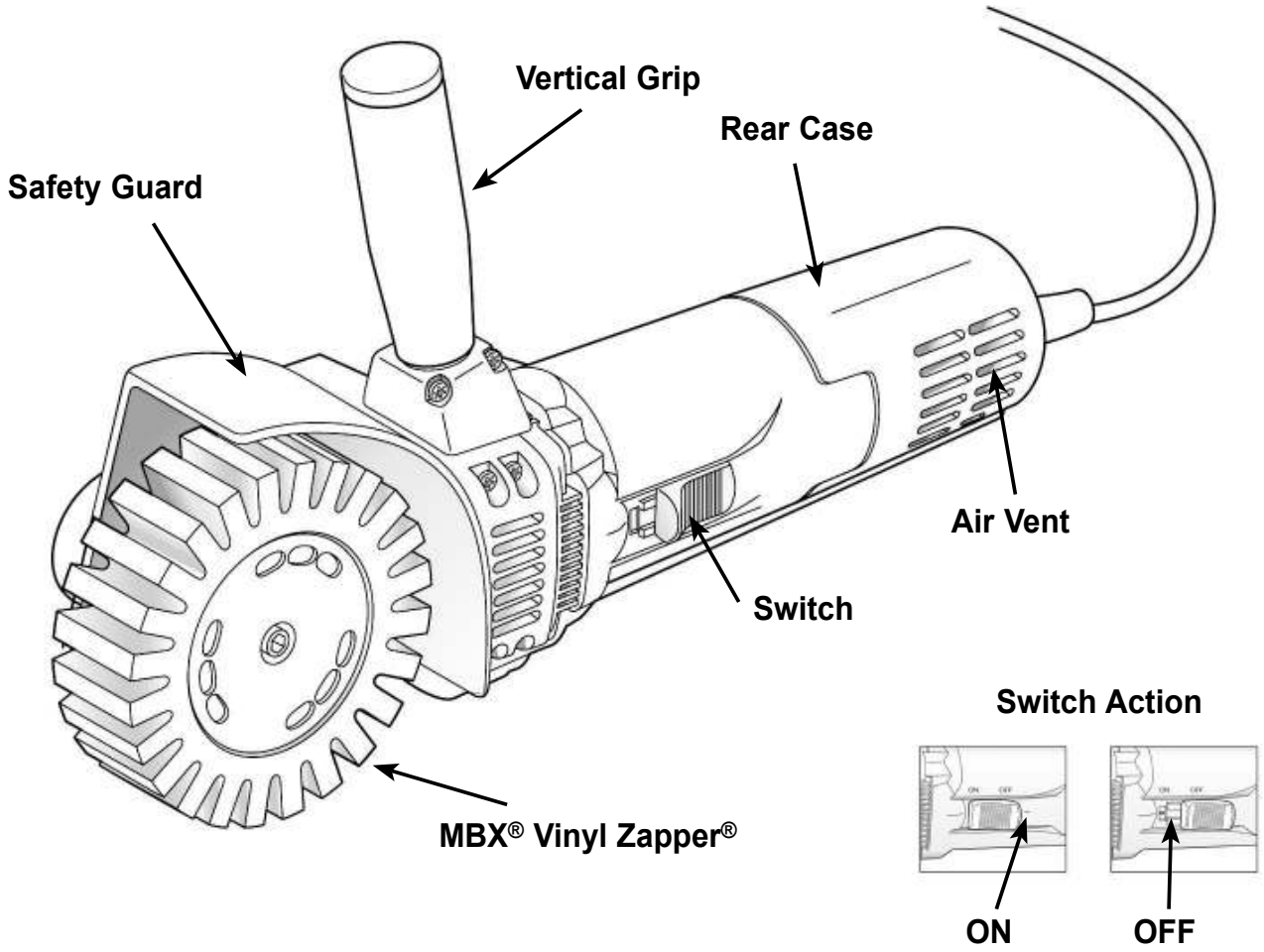
6. NEVER hold the MBX® Vinyl Zapper® in one spot during use.

7. NEVER apply excessive pressure to the tool when stripping glass, because excess pressure may break the glass and result in injury.

8. The surface may become extremely hot during stripping. Never touch the surface immediately after use.

IMPORTANT: ALWAYS START WORKING FROM EDGE TOWARDS STICKER SURFACE.

FUNCTIONAL DISCRIPTION



Double Insulation

The MBX® Electric has a double insulation structure. Double-Insulated tools are constructed throughout with two separate layers of electrical insulation or one double thickness of insulation between operator and the tool's electrical systems. An MBX® Electric built with this insulation system need no be plugged into a grounded electrical cord or outlet. As a result, this tool is equipped with a two-prong plug, which permits you to use extension cords without a ground connection. Double insulation does not take the place of normal safety precautions when operating this tool. The insulation system is intended to provide added protection against the injuries that could result from a possible electrical insulation failure within the tool.

Switch Action

Before plugging in the tool, always check to see that the switch actuates properly and returns to the “off” position when the rear of the switch button is depressed. To start the tool, depress the rear of the switch button and push it forward. Then depress the front of the switch button to lock it. To stop the tool, depress the rear of the switch button. The switch button then returns to the backward, “off” position. Always be sure that the switch button is not in the lock-“on position before plugging it in.

Extension Cord

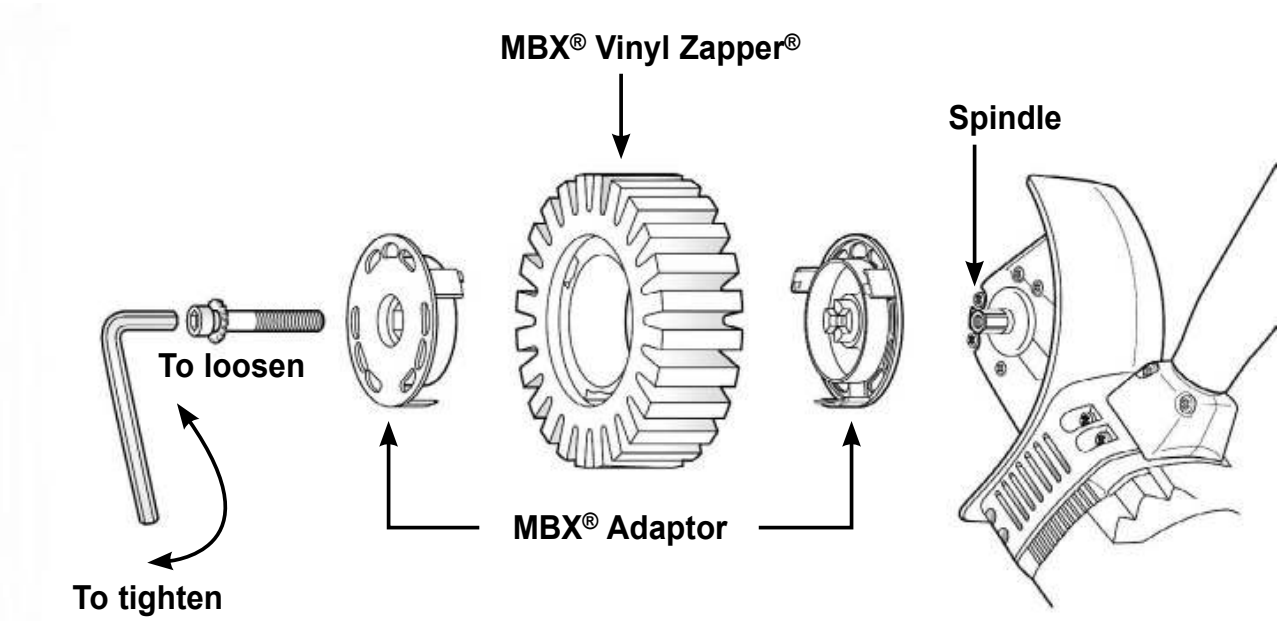
Double Insulated tools have 2-wire cords and can be used with 2-wire or 3-wire extension cords. Use only round-jacketed extension cords. If the extension is to be used outside, the cord must be suitable for outdoor use. Any cord marked for outdoor use can also be used for indoor work. An extension cord must have adequate wire size or gauge (AWG) for safety, and to prevent loss of power and overheating. When using more than one extension cord, be sure each individual cord contains at least the minimum wire size. To determine the minimum wire size required, refer to the chart bel.

Chart for Minimum Wire Size of extension Cord

Cord Length (feet)	25	50	100	150	200
Wire Size (AWG)	18	18	16	14	12

OPERATION WITH MBX® VINYL ZAPPER®

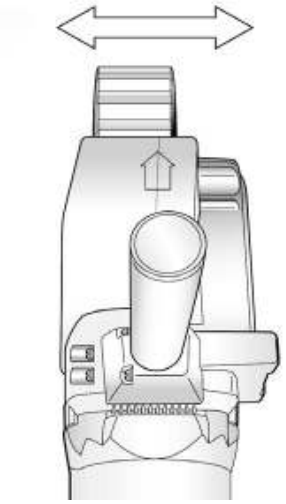
WARNING: Always unplug tool before attaching or removing accessories. Use only MBX® accessories. Others may be hazardous.



1. Steadily screw the vertical grip to the tool.

   Assemble the MBX® Vinyl Zapper® to the tool correctly with the specified MBX® Adaptor and the screw. When assembling the MBX® Vinyl Zapper®, ALWAYS disconnect the tool from the electrical source. After assembling the MBX® Vinyl Zapper®, always store the Allen-key in a safe place so that it is available for the next use.

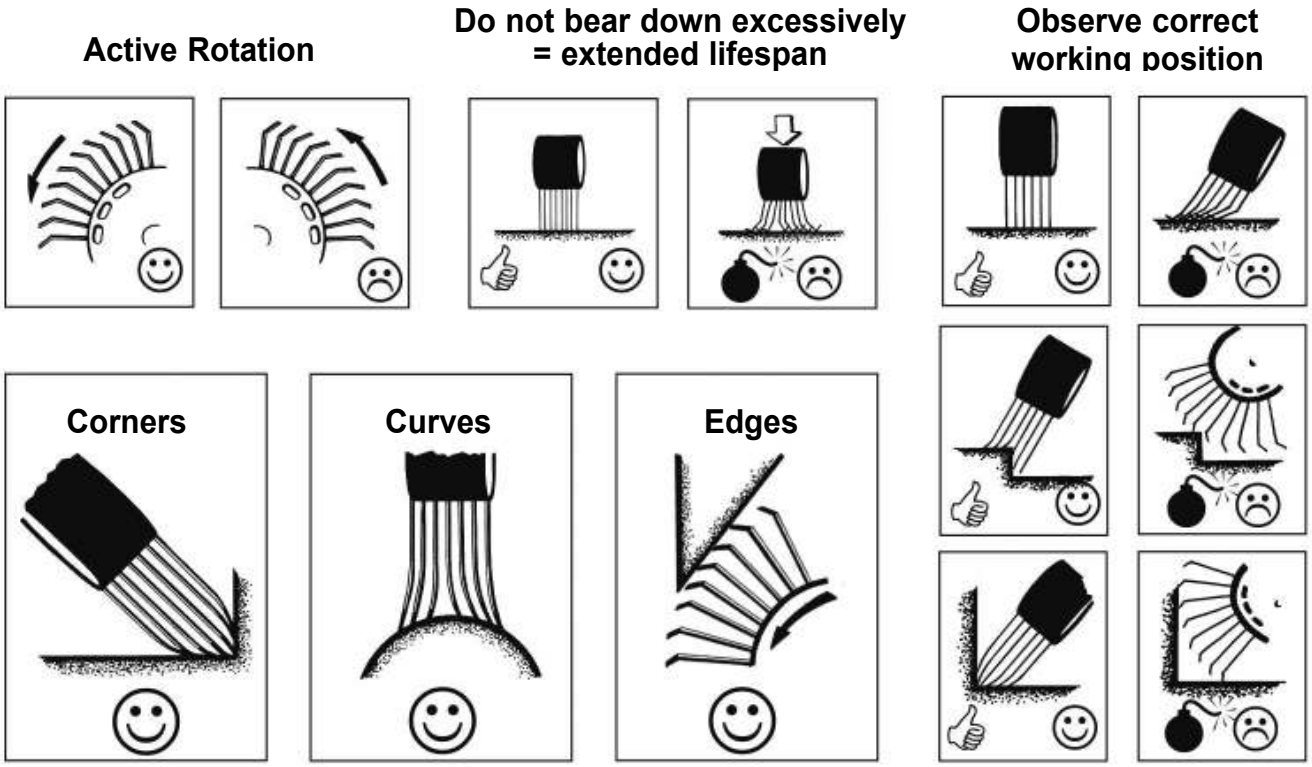
Efficient Direction



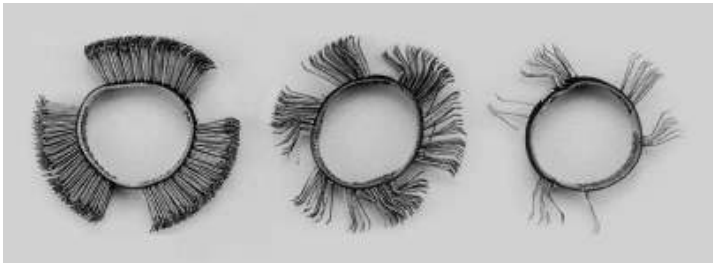
2. Use the switch button to start the tool. For instructions, see “Switch Action”, above.
3. If necessary, run a trial operation of the MBX® Vinyl Zapper® before actual use, to make sure that the MBX® Vinyl Zapper® is suitable for the surface condition.
4. Apply the tool to the surface with the proper pressure.
5. Move the tool right and left alternately and continuously, with a proper speed on the flat surface. Do not allow the MBX® Vinyl Zapper® to stay in one spot during use.
6. When not in use, store the tool and keep the surface of the MBX® Vinyl Zapper® clean for the next use.

WARNING: To reduce the risk of injury, always wear safety goggles or glasses with side shields, gloves and dust mask. Refer strictly to the “SAFETY RULES”.

INSTRUCTIONS FOR USE FOR MBX® BELTS

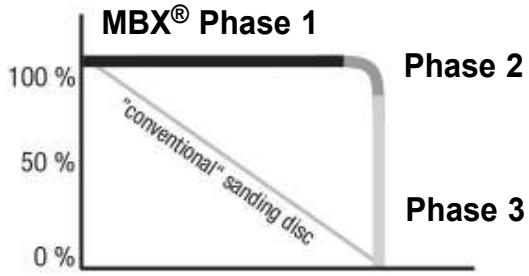


MBX® working phases



Phase 1 Phase 2 Phase 3

Performance



Phase 1: The belt works at full efficiency: Even a slight amount of pressure on the belt will remove a lot of material. The bristle tips are sharp and straight.They don't break off.

Phase 2: The sharp bristle tips have become dull.The operator increased pressure on the belt to try to compensate for the deceased efficiency of the slowly dulling tips.This caused the bristles to be bent backwards and some of the bristle tips fell out.The belt is worn out and must be changed.

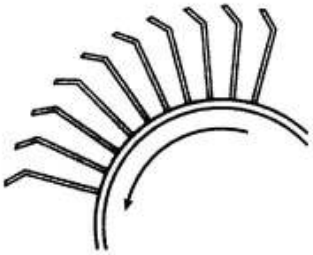
Phase 3: If you do not change the belt in Phase 2, the condition of the belt will be as shown in Phase 3.

Explanation: A traditional sanding disc is used up in a constant curve (see diagram) and you can see how much it has been used and how much life remains. Conversely, in Phase 1, the belt operates with no visible wear for a long time.The rapid progression to Phase 2 and then to Phase 3 is considered normal.

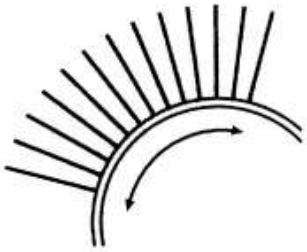
Tipp: If the belt begins to lose efficiency, check the belt bristles for wear. If wear has progressed to Phase 2, change the belt. Increasing the pressure is incorrect use and will reduce the life of the belt. You can extend the life of the belt in Phase 1 by re-sharpening the bristles, as described below.

MBX® BELTS

MBX® Belts, knee style



MBX® Belts, straight



MBX® Vinyl Zapper®

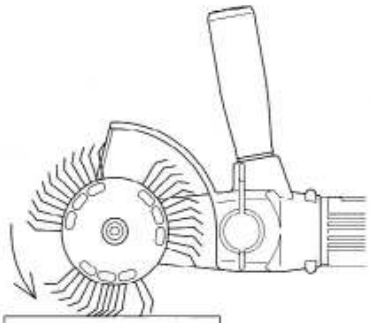
When using, never allow eraser to stand in one spot during use.
This could result in surface damage due to excessive heat build up.

Re-sharpening of the MBX® Belts

After you have used the MBX® Belt for a certain period, the tips of the bristles will become round, and this will reduce the brushing effect. Re-sharpening the bristles will restore the MBX® Belt to its proper performance.

MBX® Belts, knee style:

Assemble the MBX® Belt upside down to provide reverse spinning to the belt. Spin the belt on the grinding stone for 15 to 30 seconds, applying slight pressure. Then assemble the MBX® Belt again, in the correct direction.



Gridstone

MBX® Belts, straight:

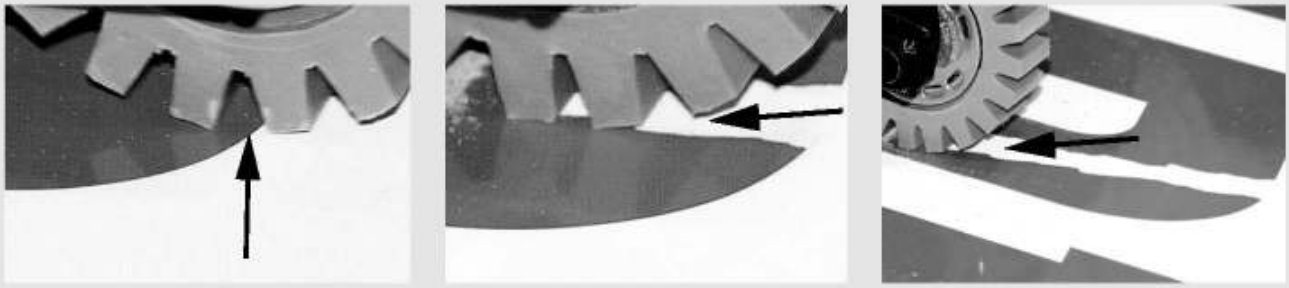
Do not attempt to re-sharpen the bristles on the straight belt.
These bristles cannot be re-sharpened and the belt must replaced.

SPECIAL INSTRUCTIONS FOR MBX® VINYL ZAPPER®

MBX® Vinyl Zapper® operates with a “Peeling Motion“ vs. “Rubbing“ techniques

IMPORTANT: FOLLOW THESE INSTRUCTIONS!

Start from edge towards Vinyl; Keep working inward from edge
DO NOT start on solid Surface!



Move MBX® Vinyl Zapper®SIDE TO SIDE, staying close to peeled edge

DO NOT move foreward & backward across solid surface

DO NOT TILT!

Fresh adhesives: Remove Vinyl with Zapper first, then remove any remaining adhesive with suitable solvent. Work with a “light hand“; do not apply pressure to MBX® Vinyl Zapper®!

MAINTENANCE

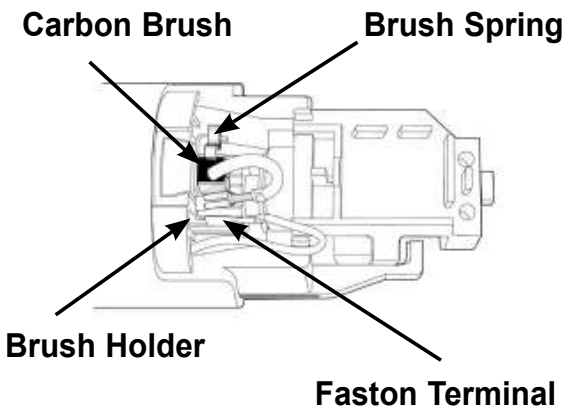
WARNING: Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

Cleaning

After each use, use compressed air to blow dust and grit out of the motor housing, and especially the air vent. This necessary regular maintenance procedure will prevent dust and grit from accumulating on interior surfaces and reducing motor cooling efficiency.

Carbon Brush Replacement

1. Remove the screw from the rear case and pull the rear case from the motor body.
2. Pull out the receptacle of the Faston Terminal from the Brush Holder tab.
3. Lift the top of the Brush Spring, pushing the upper face of the Carbon Brush, using a pair of tweezers or a similar tool.
4. Remove the worn-out Carbon Brush from the Brush Holder and install a new one.
5. Insert the receptacle to the Brush Holder tab.
6. Make sure that both Carbon Brushes are pushed properly by the Brush Springs, and that the receptacles are inserted to the tabs.
7. Reassemble the rear case with the specified screw.



WARNING: Both of the carbon brushes should be replaced at the same time.

Lubrication

The MBX® Electric should be relubricated regularly, every six months to one year, depending on the rate of use. Frequent use or constant use on production or heavy-duty jobs may require more frequent relubrication. This tool should be relubricated only by trained power tool repairpersons or other qualified tool servicers. Warning: To reduce the risk of injury, electric shock and damage to the tool, never immerse the tool in liquid or allow a liquid to flow inside the tool.

SPECIFICATIONS/TOOL SPECIFICATION

Modell: MBX® Electric 230 V | 50 Hz
Modell: MBX® Electric 230 V | 60 Hz
Modell: MBX® Electric 120 V | 60 Hz
No Load Speed: 3200 min^{-1} | Net Weight: 2,2 kg | Ring Color: Orange

SYMBOLE

⧈ Double Insulated V~ Volts AC A Ampères n0 No load rpm's