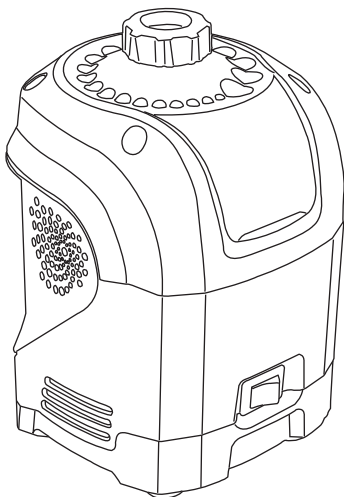




DRILL BIT SHARPENER



Model no. 054-0277-4

IMPORTANT:

Please read this manual carefully before running this drill bit sharpener and save it for reference.

**INSTRUCTION
MANUAL**

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SAVE THESE INSTRUCTIONS

This manual contains important safety and operating instructions.
Read all instructions and follow them with use of this product.

IMPORTANT

Read and follow all safety and operating instructions of the power tool before use.

**READ AND UNDERSTAND ALL INSTRUCTIONS**

When using electrical tools, safety precautions should always be followed including the following:

Work area safety

- Do not use outdoors. Do not expose to rain or wet conditions.
- Operate in a childproofed workshop.
- Do not let cord hang over edge of table or counter, or touch hot surfaces.
- Do not operate in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Do not place on or near electric burner, or in a heated oven.
- Keep the work area clean and well-lit. Make sure there is adequate surrounding workspace and is free of obstructions and other debris.
- Do not leave tool running unattended; turn power off. Do not leave tool until it comes to a complete stop. Extreme caution must be used when moving a tool.
- Keep idle tools out of reach of children and other untrained persons.
- This product is not intended to be used by persons (including children) who are limited in their physical, sensory or mental capacities, or who lack experience and/or knowledge of the product unless they are supervised, or have been instructed on how to use the product, by a person responsible for their safety.

Electrical safety

- Do not use devices with an on/off switch that does not function correctly.
- Do not use this product in a damp or wet location.
- Keep cord away from heat, oil, and sharp edges.
- To protect against electrical shock, do not immerse cord, plugs, or the main unit in water or other liquid. Only the non-electrical parts of the unit may be immersed for cleaning. Thoroughly clean and dry these parts prior to first use and before every subsequent use.
- Do not clean with metal scouring pads. Metal pieces can break off the pads and touch electrical parts involving risk of shock.
- Unplug from outlet when not in use and before maintenance, cleaning, and making any adjustments or changing accessories.
- Periodically remove the attachments and clean metal dust from enclosure and attachments.
- Inspect tool before operating. Do not operate any tool with a damaged cord or plug or after the tool malfunctions or has been damaged in any manner.
- Do not overload the device. Do not use the device for purposes for which it is not intended.
- Return tool to the nearest authorized service facility for examination, repair, or adjustment.
- This electric sharpener has a polarized plug (one blade is wider than the other).
To reduce the risk of electric shock, this plug is intended to fit into a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not change the plug in any way.
- Before plugging in the tool, be certain the outlet voltage supplied is compatible with the voltage marked on the nameplate within 10%. An outlet voltage incompatible with that specified on the nameplate can result in serious hazards and damage to the tool.
- To disconnect, turn on/off switch to "off", then remove plug from wall outlet.

Power cord safety

- A short power supply cord is provided to reduce risks resulting from becoming entangled in or tripping over a longer cord.
- Longer extension cords are available and may be used if care is exercised in their use.
- If a long extension cord is used, the marked electrical rating of the detachable power supply cord or extension cord should be at least as great as the electrical rating of the tool. If the tool is of the grounded type, the extension cord should be a grounding type 3-wire cord, and the longer cord should be arranged so that it will not drape over the countertop or tabletop where it can be pulled on by children or tripped over.
- Never use the cord to carry the tool or pull the plug from an outlet.

Personal Safety

- Do not touch the mains plug with wet hands! Always pull out the mains plug at the plug and not by the cord.
- Dress properly. Do not wear loose clothing or jewellery. Contain long hair. Keep your hair, clothing and gloves away from moving parts.
- Keep hands away from sharp edge of workpiece and sharpening wheel.
- Do not operate a tool with a cracked or damaged wheel.

General Safety

- Do not use tool for other than its intended use.
- Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Customer Service for a replacement.
- Do not store anything other than the manufacturer's recommended accessories in this unit when not in use.
- People with pacemakers should consult their physician before use. Electromagnetic fields in close proximity to a heart pacemaker could cause pacemaker interference or pacemaker failure.
- The warnings, precautions, 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.

Specific safety rules

- Grinding wheel MUST BE rated to 1500 RPM.
- Wear ANSI-approved safety goggles, heavy-duty work gloves and dust mask during set up and use.
- This sharpener is not recommended for professional applications.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION used with the safety alert symbol indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTE

NOTE is used to inform the reader of something that he/she needs to know about the product.

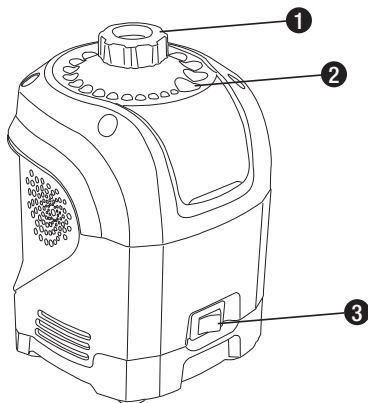
Check before starting the device!

DANGER! RISK OF INJURY!

The device may only be put into operation if there are no defects. If a part is defective, it must be replaced before the device is used again.

Check to make sure the device is in a safe operating condition:

- Check to make sure there are no visible defects.
- Check to make sure all device components are correctly mounted.



Mastercraft Drill Bit Sharpener

1. Adjusting Knob
2. Drill holder
3. On/Off switch

- Step 1.** Make sure that On/Off Switch (3) is in the off position, then plug in the device.
- Step 2.** Clean the drill bit to be sharpened then insert to appropriate hole of Drill Holder (2) on the top. The specification can be read from the cover. Refer to Figure 1.
- Step 3.** Slightly rotate the drill bit in clockwise direction until it locks to the place. Refer to Figure 2.
- Step 4.** Turn the device on with the On/Off Switch (3). When you can hear the grinding sound, grind the first face (face 1) for about 5–10 seconds.
- Step 5.** After grinding the first face, do not lift the drill. Slightly turn the drill in counter-clockwise direction until it locks to the place to grind the second face (face 2) for about 5–10 seconds.
- Step 6.** Lift the drill and rotate by 180° and repeat step 4 and step 5 to grind the third and fourth surface until both cutting edges are sharp (face 3&4).

Examine the bit as stated below:

- I. A sharp centre point in the centre of the bit. Refer to Figure 3.
- II. Both cutting edges (a) must have the same angle to the drill axis and be of the same length.

Grinding Wheel Adjustment

The height of the grinding wheel could be adjusted by rotating adjusting knob (1). If you cannot hear the grinding sound in Step 4, just rotate the adjusting knob (1) in a clockwise direction, until you hear the grinding sound.

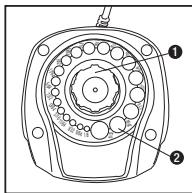


Figure 1

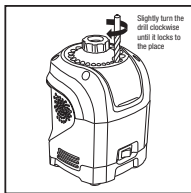


Figure 2

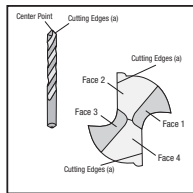


Figure 3

NOTE

- I. For additional information regarding the parts listed on the following pages, refer to the assembly diagram.
- II. **TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION OR ELECTRIC SHOCK:** Before tool assembly or adjustment, make sure the tool's switch is turned off and the cord is unplugged.
- III. Do not touch the drill immediately after finishing grinding to avoid burns or injury.

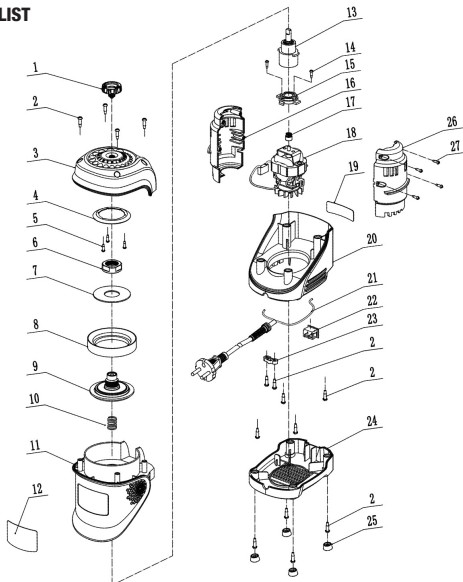


Read the **IMPORTANT SAFETY INSTRUCTIONS** section at the beginning of this manual including all text under subheadings before set up or use of this product.

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION OR ELECTRIC SHOCK: Before tool assembly or adjustment, make sure the tool's switch is turned off and the cord is unplugged.

PART LIST



Assembly Diagram

Part	Description	Qty
1	Adjustment Knob	1
2	Screw	14
3	Index	1
4	Position Plate	1
5	Screw	3
6	Lock Nut	1
7	Wheel Plate	1
8	Grinding Wheel	1
9	Wheel Base	1
10	Spring	1
11	Upper Cover	1
12	Label	1
13	Gearbox	1
14	Screw	2

Part	Description	Qty
15	Connector	1
16	Motor Right Cover	1
17	Gear	1
18	Motor	1
19	Label	1
20	Under cover	1
21	Cable	1
22	Switch	1
23	Platen	1
24	Chassis	1
25	Soft Feet	4
26	Motor Left Cover	1
27	Screw	4

WARNING! RISK OF INJURY!

- **TO PREVENT SERIOUS INJURY FROM FAILURE:** Do not use if damaged.
If abnormal noise or vibration occurs, have the problem corrected before further use.
- **BEFORE EACH USE,** inspect the general condition of the electric sharpener.
Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.
- Store the unit in such a way that it cannot be started by unauthorised persons.

NOTICE! Risk of damage to the unit!

Do not store sharpener unprotected in a damp environment.

- Clean unit before storing.
- Store the tool in a dry and well-ventilated place.
- Unfavourable ambient conditions during storage may accelerate the aging process for grinding tools.

Cleaning

- **Check the power cable and plug for damage.**
- **Conduct a visual inspection and have the cable replaced by an electrician if necessary.**
- **Cleaning the device.**
- **Wipe the unit with a damp cloth. Remove grinding residue with a dry brush.**

Maintenance

- Before conducting any maintenance on the device, disconnect the mains plug.
- Only those maintenance and fault elimination tasks described here may be carried out.
Any other tasks must be completed by a specialist.
- Only use original replacement parts. Only these replacement parts are designed and suitable for the device. Other replacement parts will not only lead to an invalidation of the warranty, they may also endanger you and your environment.

Nominal voltage	120V~, 60Hz
Capacity	90 W
Speed	1500 RPM
Diameter of cutting disc	3"
Applications on drill bits	1/8 – 1/2" (3.1-12.7mm) (1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4", 17/64", 9/32", 19/64", 5/16", 21/64", 11/32", 23/64", 3/8", 7/16", 1/2")
Cord Length	6' (1.8 m)

Troubleshooting

Problem	Possible causes	Likely solutions
Electric sharpener will not start.	1. No power at outlet. 2. Cord not connected.	1. Check power at outlet. 2. Check that cord is plugged in.

PLEASE READ THE FOLLOWING CAREFULLY:

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY.

NEITHER THE MANUFACTURER OR 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.

This Mastercraft product carries a **one (1) year** warranty against defects in workmanship and materials.

This product is not guaranteed against wear or breakage due to misuse and/or abuse.

Made in China

Imported by Mastercraft Canada Toronto, Canada M4S 2B8