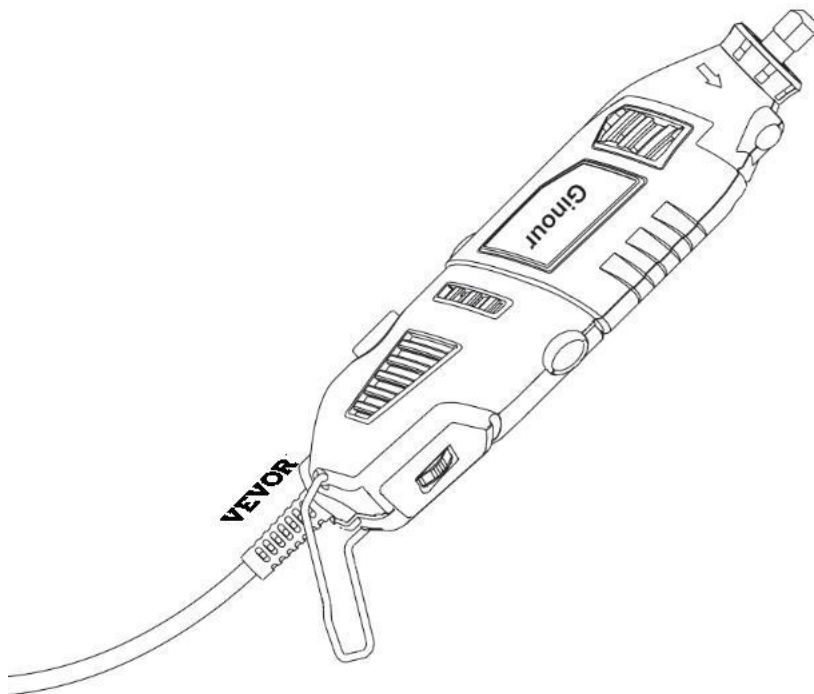


VEVOR[®]

Model:DM-160C

Mini Grinder

User Manual



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

✉ CustomerService@vevor.com

This is the original instruction, please read all manual instructions carefully before operating.
VEVOR r

be subject to the product you received. Please forgive us that we won't inform you again if there is any technology or software updates on our product.

INTRODUCTION

This ro

and removing rust in tight spaces or inaccessible places. The tool can be used on most metals, glass, wood and ceramics. F

exercising too much pressure. As a guideline, use the tool at low speed for all large accessories, such as polishing for example, and at high speed for smaller accessories such as those used for engraving.

For grinding and engraving, hold the tool as if it were a pen.

TECHNICAL SPECIFICATIONS

Available Voltages	220-240V~ 50Hz
Maximum Output	160W
No Load Speed	8,000 - 35,000 rpm
Collet chuck capacity	Max3.2mm dia.

SAFETY INSTRUCTIONS FOR ALL TOOLS

WARNING: When using electric power too
adhered to in order to reduce the risk of fire, electric shock and per

Please Read The Following Carefully:

1. KEEP WORK AREA CLEAN. Untid benches and work areas invite injuries.
2. CONSIDER WORK AREA ENVIRONMENT. Do not use power tools in damp or wet locations. Do not expose power tools to rain. Keep work areas well lit.
3. GUARD AGAINST ELECTRIC SHOCK. Prevent bod contact with gr pipes, refrigerator enclosures.
4. KEEP CHILDREN AWAY.All visitors must be kept awa from the work area. Do not let visitors come into contact with the tool or extension cord.
5. STORE IDLE TOOLS. When not in use, tools must be stor
6. DO NOT FORCE THE TOOL. It will do the job in hand better and safer at the rate for which it was intended.
7. USE THE RIGHT TOOL. Do not force a small tool to do the job of a heav -dut dut power tool. Do not use the tool for the purpose it is not intended for.
8. DRESS PROPERLY. Do not wear loose clothing or jew
Gloves and non-skid footwear are recommended when working outdoors. Wear a protective head cover to contain long hair.

9. USE SAFETY GLASSES. Also use a face and a dust mask to guard against dust
10. DO NOT ABUSE THE CORD. Never car
Keep the cord awa from heat, oil or sharp objects.
11. SECURE YOUR WORK. Use clamps or a vice to hold our work in position. It is much safer than using
our hand and it frees both hands to operate the tool.
12. DO NOT OVERREACH. Keep proper footing and balance at all times.
13. MAINTAIN TOOLS WITH CARE. Keep tools clean for better and saf
for lubricating and changing accessories. K
14. DISCONNECT TOOLS. When not in use, befor
15. REMOVE ADJSUTING KEYS AND WRENCHES. Have the habit to check and see that ke s and
adjusting wrenches are removed from the tool before turning it on.
16. AVOID UNINTENTIONAL STARTING. Do not car
the switch is off when plugging in.
17. OUTDOOR EXTENSION CORDS. When the tool is used outdoors, onl use extension cords intended
for use outdoors and so marked.
18. STAY ALERT. Watch what ou are doing. Use common sense. Do not operate the tool when ou
aretired.
19. CHECK DAMAGED PARTS. Before using a tool, protective cover, or other damaged p
be carefull checked to ensure that the too
alignment of moving p
condition that ma affect the tool's operation.
20. DO NOT OPERA
atmospheres. Motors in these tools normal spark, and the sparks ma ignite fumes.

Multifunction Power Too

Nev

the ON/OFF switch. The tool will run continuousl until the switch is turned to OFF position.
The speed can be adjusted while the tool is running.

Speed Adjustment

The multifunction power tool is equipped with speed control. Do not change the speed while the tool is
working. The speed switch is located on the rear of the tool. Turn it to increase or reduce speed.
Use the tool at low speed for polishing and similar operations, but use higher speed for drilling or
cutting action.

1. The tool should be unplugged when changing accessories.
2. If ou stall the tool, switch it off immediatel .
3. Periodicall check the tightness of our collet chuck, especiall during prolonged use of the
same acces
4. After use, alwa s disconnect our power tool.
5. Do no

6. Do not leave our tool unattended while switched on.
7. Do not use or store our tool in damp or wet conditions.

Useful Hints & Tips

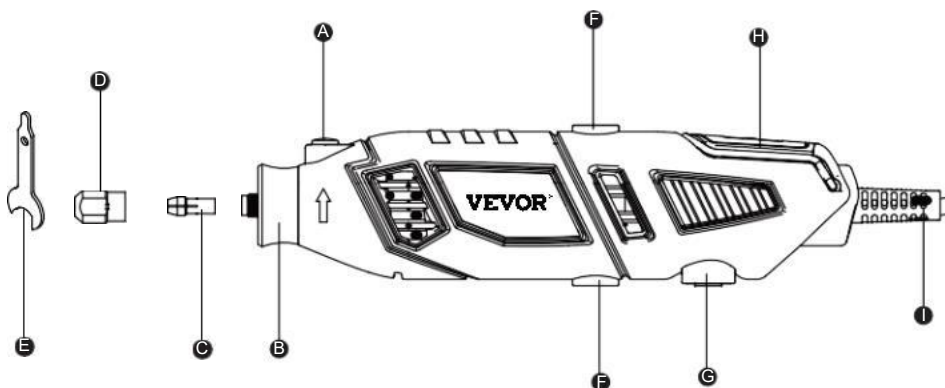
1. Your rotary tool should cool down.
2. To ensure smooth running, the spindle should be oiled periodically.
3. Do not apply too much radial pressure to the accessories during grinding. By doing this, you will put a strain on the spindle and adversely affect the precision of the tool.
4. Always work with a sensitive touch so as not to impede the efficiency of our mini tool.
5. When drilling metal, always mark the drilling point with a center punch first, so that the tool does not slip.
6. Always ensure that you have maximum contact between the accessories and the workpiece.
7. Vary the speed for engraving.

Placing Accessories Into The Tool

Always switch the tool off first. Hold the locking button at the front of the tool down and undo the collet chuck (anti-clockwise) to remove the collet nut over the collet shaft contact. Then tighten up the collet nut. (DO NOT USE PLIERS).

KNOW YOUR ROTARY TOOL

Before attempting to use any tool, familiarize yourself with all operating features and safety requirements.



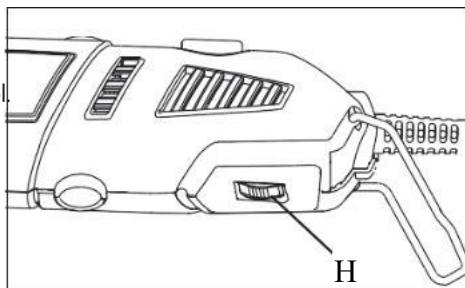
PART	DESCRIPTION
A	Shaft lock button
B	Case Lock
C	Collet
D	Collet nut
E	Collet wrench
F	Brush cap
G	On/Off Switch
H	Speed control dial
I	Power cord

FUNCTION DESCRIPTION

On / Off Switch

This product has an eas access power **Speed control switch** (H) located at the bottom of the tool.

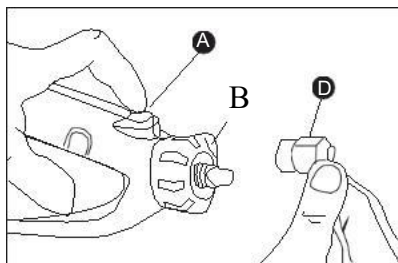
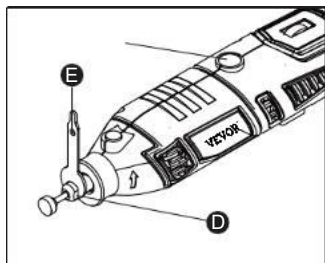
Need to adjust the speed of the work can rotate the G speed switch



Replacing Collets

Using collets is the most precise way to hold an acces and maximum pressure, collets stay tight.

1. Unplug the ro
2. Press and hold the shaft lock button(A), and rotate the shaft with the provided collet wrench (E) until the shaft lock (A) engages the shaft, preven
3. With the shaft lock (A) engaged, use the collet wrench (E) to loosen the collet nut (D), if neces
4. Remove the collet nut (D) and old collet (C) using the collet wrench (E), if neces
- 5.
6. Tighten the collet nut with the collet wrench (E).



Installing Accessories



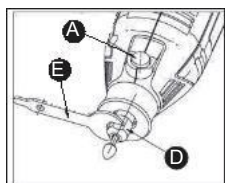
WARNING

Do not press the shaft lock button (A) while ro

1. Unplug the ro
2. Press and hold the shaft lock button(A), and rotate the shaft b hand until the shaft lock engages the shaft, prev
3. With the shaft lock button engaged, use the collet wrench (E) to loosen the collet nut (D), if neces
- 4.
- it is engaged.
5. the collet nut (D) with the provided wrench (E) until the acces
- Avoid excess tightening of the collet nut (D).

Removing Accessories

1. Unplug the ro
2. When the shaft lock (A) is engaged, loosen the collet nut (D) with the provided wrench (E).
3. Remove the acces



Using Mandrels

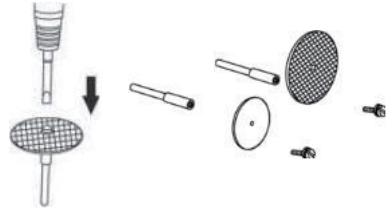
The most common t pes of mandrel to use with this tool are the standard mandrel which is used with cuto wheels and polishing drums. Drum mandrels are used with sanding drums.

TO INSTALL:

1. Unplug the ro
2. Install the mandrel.

If Using The Standard Mandrel:

1. Press and hold the shaft lock button (A).
2. [blank] into the slot on top of the mandrel and unscrew.
3. Remove mandrel screw and washer.
4. Place desired acces [blank] and align acces [blank]
5. [blank] the acces [blank]



NOTE: The mandrel washer should be placed between the mandrel screw and the acces [blank]

* Tighten using provided wrench.

If Using The Drum Mandrel:

1. Align appropriatel sized sanding drum over mandrel and push down to completel cover drum end of mandrel
2. [blank] on the drum mandrel head to expand the drum and securel hold the sanding drum in place.

If Using The Screw Mandrel:

1. Align the desired acces [blank]
2. Screw acces [blank]



Balancing Accessories

For precision work
slightl loosen the collet nut and turn the acces [blank]
the ro [blank]

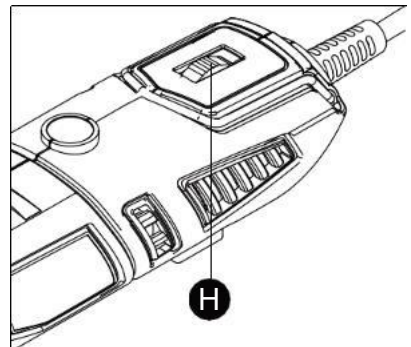
Continue adjusting in this fashion until the best balance is achieved. Replace accessories if the become damaged or unbalanced.

Speed Control









The ro [blank]

To select the right speed for each job, use a practice piece of material.

Va speed to find the best speed for the acces [blank] are using and the job to be done. Use the indicator mark above the speed control dial (H) to set the best speed for the job. The speed control dial (H) is numbered from 1to 6. For example, a speed setting of 1 is approximatel 8,000 RPM, and a speed setting of 6 is approximatel 35,000 RPM. Refer to the Speed Dial Settings table to determine the proper speed based on the material being worked and the t pe of acces [blank]



SPEED SETTING FOR ROTARY ACCESSORIES

Function	Picture	Description	Soft wood	Hard wood	Plastic	Steel	Aluminum, brass, etc.	Shell, stone	Ceramic	Glass
Polished Deburr		Grinding wheel	15000-35000	15000-35000	15000-35000	15000-35000	15000-35000	15000-35000	15000-35000	/
		Diamond Grinding Needle	/	/	/	/	/	20000-35000	20000-35000	20000-35000
		Sanding band	15000-35000	15000-35000	15000-35000	15000-35000	15000-35000	15000-35000	15000-35000	/
Drilling		Drill bits	15000-35000	15000-35000	15000-25000	/	/	/	/	/
Polishing		Wool felt wheel	/	/	/	12000-17000	12000-17000	12000-17000	12000-17000	12000-17000
		Sanding paper	12000-20000	12000-20000	12000-20000	/	12000-20000	/	/	/
Cleaning		Stainless brush	8000-15000	8000-15000	8000-15000	8000-15000	8000-15000	/	/	/
Cutting		Cut off wheel	/	/	25000-35000	25000-35000	25000-35000	25000-35000	/	/
Switch Setting	1	2	3			4		5		5
Speed Range	8000-11000 RPM	11000-13000RPM	14000-16000RPM			17000-20000RPM		22000-28000RPM		29000-35000 RPM

RULES OF OPERATING SPEEDS

The best way to determine the correct speed for work on an material is to practice for a few minutes on a piece of scrap, even after referring to the Speed Dial Settings tables. You can quickly learn that a slower or faster speed is more effective just by trying at different speeds.

When working with a scrap piece of plastic

optimum working speed without melting the workpiece.

friction of the tool generates heat and causes the plastic to melt.

Slow-speed operation (15,000 RPM or less) is usually best for polishing operations using the felt polishing accessories, delicate wood

speeds to avoid wire discharge from the holder. Allow the tool to do the work for you when using lower speed settings.

Higher speeds are better for drilling, cutting

in wood. Hardwoods, metals and glass also require high-speed operation.

NOTE:

1. Plastic and materials that could melt at low temperatures should be cut at low speeds.
2. Soft wood should be cut at high speed.
3. Aluminum, tin, copper, lead, and zinc alloys may be cut at any speed, depending on the type of cutting being done. Use paraffin or other suitable lubricants on the cutter to prevent the cut material from adhering to the cutter.

CUTTING GUIDE

The cutting guide comes completely assembled and ready to use on a variety of materials up to 20mm thick. Always hold the tool firmly, using a slow steady pressure to guide the tool through your work. The speed of the tool will do the work.

IMPORTANT: Always cut in clockwise direction except when following a template (outlet box), then cut in counter clockwise direction.

Installation Instruction Of The Cutting Guide Attachment

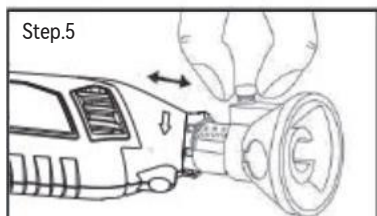
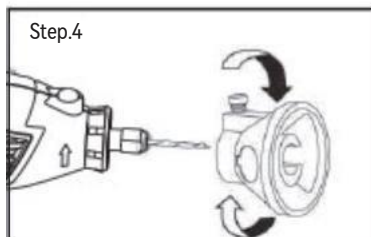
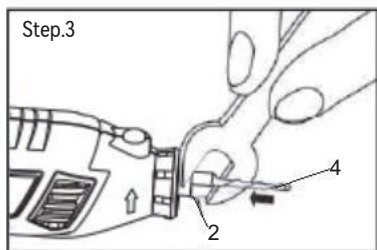
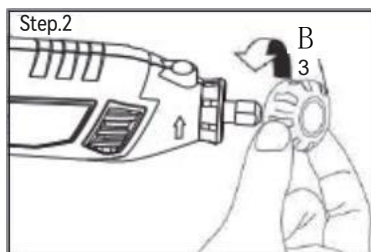
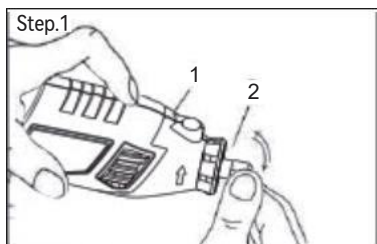
Step 1 & 2. Remove the collet nut and then the housing cap from the end of the router.

Step 3. Place the collet nut loosely on the end of the router.

Tighten collet nut.

Step 4. Thread the Cutting Guide Attachment onto the exposed housing threads on the router.

Step 5. Adjust the attachment to the desired cutting depth.



Shield Ro

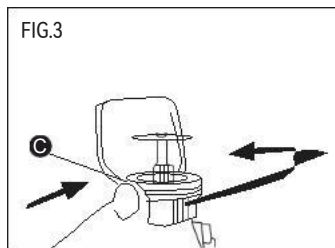
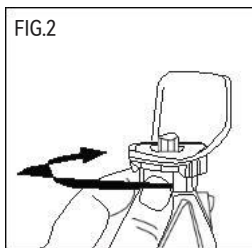
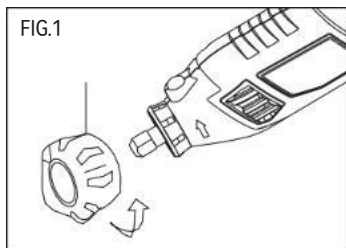
The ro from the user without int left-hand grip positions and works to deflect debris on a variety of applications, including cutting, sanding, grinding and polishing. The shield can be quickly adjusted into position, provides easy access to the access

Installation Instruction:

- Step 1. Remove the housing cap A from the end of the tool and set housing cap aside. The original housing cap must be reinstalled when this attachment is not used (Fig.1).
- Step 2. Screw the Shield onto the tool using the lock nut B(Fig.2).
- Step 3. Position the Shield such that it will redirect debris, sparks, and dust away from the user using the positioning tabs C (Fig.3).

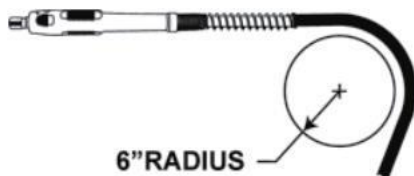
Using The Shield Ro

Always turn the tool off before adjusting position, changing access. Ro Maneuverability, the Shield can be quickly positioned and repositioned with a turn to the right or left. To extend



Flexible Driver Attachment

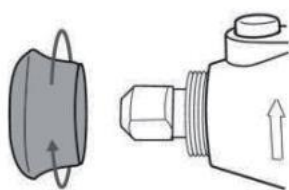
Safety Rules for Flexible Driver. Do not operate the flexible shaft with a sharp or multiple bends. Ensure that there are no sharp residual bends or kinks in the Flexible Driver before the operation. Over bending the shaft can generate excessive heat on the jacket or hand piece and may cause the Flexible Driver to disengage from the tool. The minimum recommended bend radius is 6". Always hold the hand piece firmly in your hands



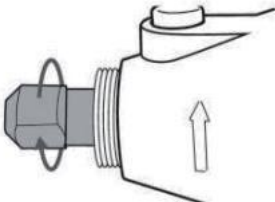
to twist. Not for use with router bits or other large diameters (1" or larger) bits. Large diameter bits can cause kickback and loss of control when used with the Flexible Driver. Do not remove end ferrule while tool is running. The cable will become loose from the jacket and will uncontrollably whip or lash around.

INSTALLATION DIAGRAM OF FLEXIBLE DRIVER

1. Remove the shaft collar.



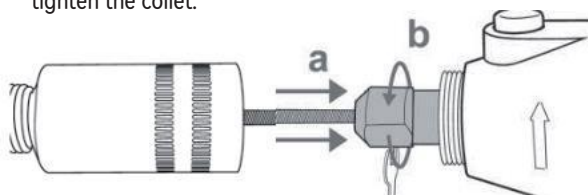
2. Loosen the collet nut.



3. Raise the handle end of the flexible shaft & shake gently until the inner flexible shaft protrudes.

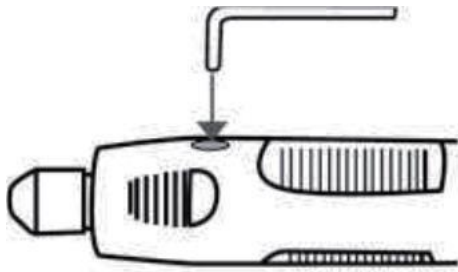


tighten the collet.

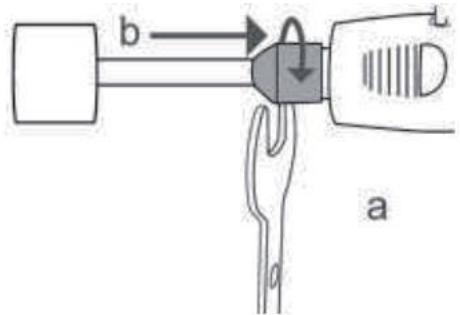


5. Screw the flexible shaft fitting collar onto the rod





7. Loosen cover
access



DIRECTIONS FOR USE

1. With small milling cutters / grinding pins: Use a high speed.
2. With large milling cutters / grinding pins: Use a low speed.
3. Precision work / engraving: Hold the drive unit like a pen.
4. Rough work: Hold the drive unit like a hammer.

TIPS:

1. Ex
2. You will not finish your work sooner because
cause the drive unit to slow down or stop and will overload the motor.

Operating Instructions

Run-In before Operation

For op
speed on your ro

Disengagement of the Flexible Driver

The flexible shaft may become disengaged if the motor of your
tool is not elevated.

Higher than the working end of the Flexible Driver.

Flexible Shaft Lubrication

The Flexible Driver should be lubricated after ev

Unscrew the Flexible Driver assembly from the motor housing. Pull the center
core out of the Flexible Driver assembly. Wipe a v

bearing grease on to the center core and r
damage to tool do not over grease shaft. Too much grease will cause the unit to overheat.

Reattach the Flexible Driver to the ro



Fig.1

CLEANING

1. Keep all safety devices, air vents and the motor housing free of dust.
Wipe the equipment with a clean cloth or blow it with compressed air at low pressure.
2. We recommend that you clean the device immediately each time you have finished using it.
3. Clean the equipment regularly with a moist cloth and some soft soap. Do not use cleaning agents or solvents; these could attack the plastic parts of the device.



Read the instruction manual.



This product is of protection class II. That means it is equipped with enhanced or double insulation.



Complies with the European safety standards.



This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.



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