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Central Machinery 792363435338

Central Machinery Bench Grinder with Flex Shaft User Manual

Model: 792363435338

1. INTRODUCTION

This manual provides essential instructions for the safe operation, assembly, maintenance, and troubleshooting of your Central Machinery Bench Grinder with Flex Shaft. Please read and understand all instructions before operating the tool to ensure safe and efficient use.

The Central Machinery Bench Grinder with Flex Shaft is designed for deburring, grinding, and polishing small parts. The integrated 31-inch flexible shaft allows for precision work and access to hard-to-reach surfaces.

2. GENERAL SAFETY INSTRUCTIONS

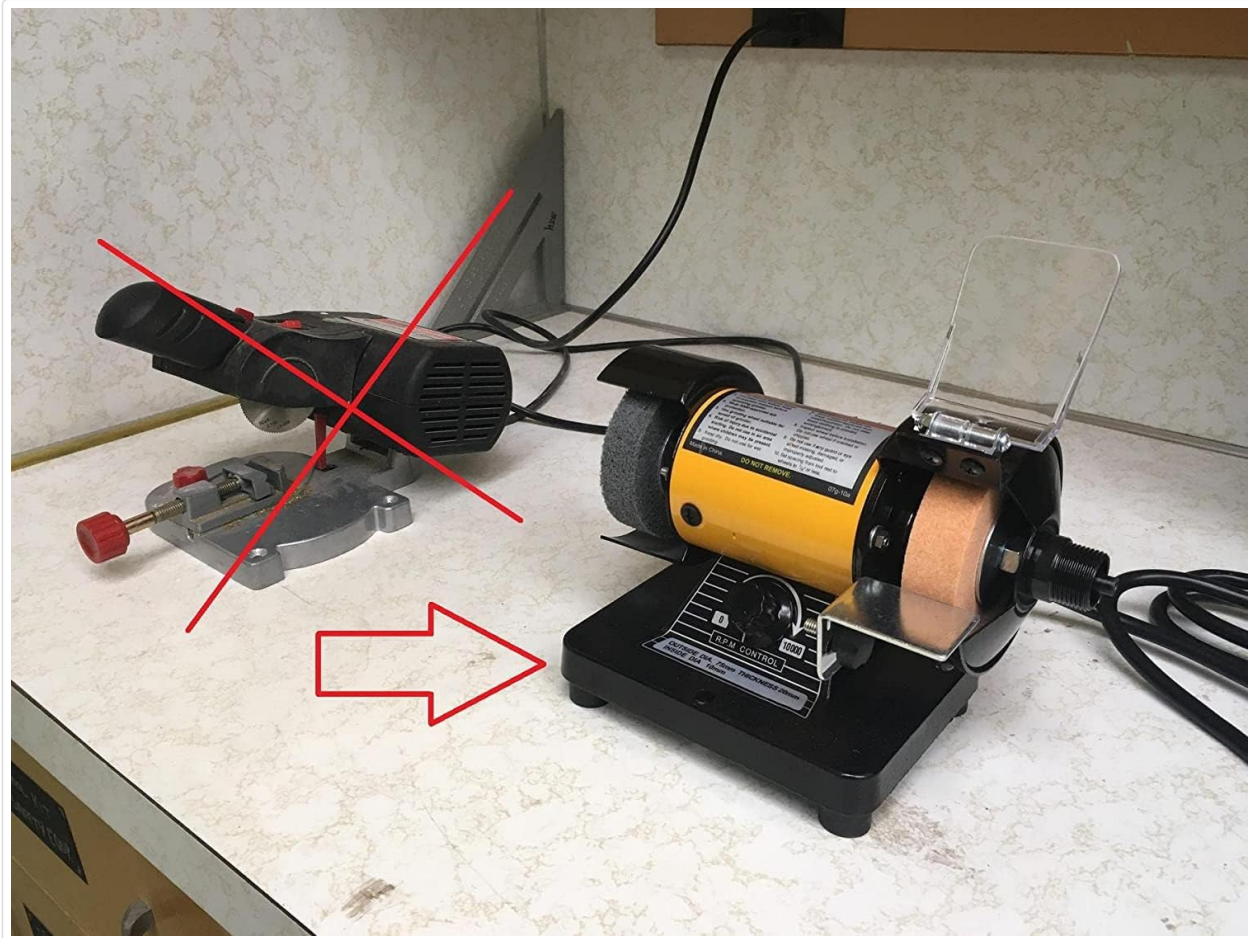
WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear appropriate personal protective equipment, including safety glasses or a face shield, hearing protection, and dust masks when necessary. Dress properly; avoid loose clothing or jewelry that can get caught in moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Maintenance:** Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.

3. PRODUCT COMPONENTS

The Central Machinery Bench Grinder with Flex Shaft typically includes the following main components:

- Grinder Motor Housing (Yellow)
- Grinding Wheel (mounted on one side)
- Polishing/Buffering Wheel (may be included or sold separately)
- Flexible Shaft Attachment (31 inches)
- Adjustable Tool Rests
- Clear Safety Shields
- Variable Speed Control Knob
- Power Cord



This image displays the Central Machinery Bench Grinder with its flexible shaft attachment, ready for use on a workbench. The grinder features a yellow motor housing, a black base, and a clear safety shield over the grinding wheel. An arrow points to the grinder, indicating it as the correct tool for the task, while another tool is crossed out.

4. SETUP AND ASSEMBLY

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage during shipping.
2. **Mounting:** For stability and safety, it is recommended to securely mount the bench grinder to a sturdy workbench using bolts (not included) through the mounting holes in the base.
3. **Attach Safety Shields:** Install the clear safety shields over the grinding wheels. Ensure they are securely fastened and positioned to provide maximum protection without obstructing your view of the workpiece.
4. **Install Tool Rests:** Attach the adjustable tool rests in front of the grinding wheels. Adjust them to be

approximately 1/16 inch (1.5 mm) from the wheel surface and slightly below the center line of the wheel.

5. **Connect Flex Shaft:** To attach the flexible shaft, ensure the grinder is unplugged. Remove any existing cap or cover from the flex shaft port (usually on the opposite side of the main grinding wheel). Securely screw or attach the flexible shaft assembly to this port.
6. **Power Connection:** Ensure the speed control knob is set to the 'OFF' position (or lowest setting) before plugging the power cord into a standard 120V AC electrical outlet.

5. OPERATING INSTRUCTIONS

5.1 Using the Grinding Wheel

1. Ensure all safety shields and tool rests are properly adjusted.
2. Turn the speed control knob to the desired RPM. The grinder features variable speed control up to 10,000 RPM. Start at a lower speed and increase as needed.
3. Allow the wheel to reach full operating speed before applying the workpiece.
4. Gently bring the workpiece into contact with the grinding wheel, using the tool rest for support. Apply light, even pressure.
5. Move the workpiece across the face of the wheel to ensure even wear.
6. After use, turn the speed control knob to 'OFF' and allow the wheels to stop completely before leaving the machine.

5.2 Using the Flexible Shaft

1. Ensure the grinder is unplugged before changing any accessories on the flexible shaft handpiece.
2. Insert the desired accessory (e.g., small grinding stone, polishing bit) into the collet of the flexible shaft handpiece and tighten securely.
3. Plug in the grinder and turn the speed control knob to the desired RPM.
4. Hold the handpiece firmly and bring the accessory into contact with the workpiece. The flexible shaft is ideal for detailed work, deburring, and polishing in confined spaces.
5. Avoid excessive pressure, which can cause the motor to bog down or damage the accessory.
6. Always turn off the grinder and unplug it before changing accessories or performing any maintenance on the flexible shaft.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your tool.

- **Cleaning:** Keep the tool clean and free of dust and debris. Use a soft, dry cloth to wipe down the exterior. Compressed air can be used to clear dust from ventilation openings, ensuring the tool is unplugged first.
- **Wheel Inspection:** Regularly inspect grinding and polishing wheels for wear, cracks, or damage. Replace worn or damaged wheels immediately. Ensure wheels are properly balanced.
- **Flex Shaft Care:** Periodically lubricate the inner shaft of the flexible shaft according to manufacturer recommendations (if applicable). Keep the outer casing clean.
- **Storage:** Store the grinder in a clean, dry, and secure location out of reach of children and unauthorized users.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Grinder does not start	No power to the outlet; Power cord not plugged in; Faulty switch.	Check power supply; Ensure cord is securely plugged in; Contact qualified service personnel.
Excessive vibration	Loose mounting bolts; Unbalanced or damaged grinding wheel; Loose flex shaft connection.	Tighten mounting bolts; Inspect and replace damaged wheels; Secure flex shaft connection.
Poor grinding performance	Worn or glazed grinding wheel; Incorrect speed setting.	Dress or replace grinding wheel; Adjust speed control to a higher RPM.

8. SPECIFICATIONS

- **Brand:** Central Machinery
- **Model:** 792363435338
- **Power Source:** Electric-powered
- **Voltage:** 120 Volts
- **Maximum Rotational Speed:** 10,000 RPM (Variable Speed)
- **Material:** Metal (construction)
- **Grinding Wheel Dimensions:** Outside Diameter 75mm, Thickness 20mm, Inside Diameter 10mm
- **Flex Shaft Length:** 31 inches
- **Approximate Package Dimensions:** 11.18 x 7.4 x 6.61 inches
- **Color:** Yellow, Black

9. WARRANTY INFORMATION

For specific warranty details, including coverage period and terms, please consult your retailer or the official Central Machinery website. Keep your purchase receipt as proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

If you require technical assistance, replacement parts, or have questions regarding the operation of your Central Machinery Bench Grinder with Flex Shaft, please contact Central Machinery customer service through their official channels. Refer to the product packaging or the manufacturer's website for current contact information.