

OPERATION

STONE GRADER

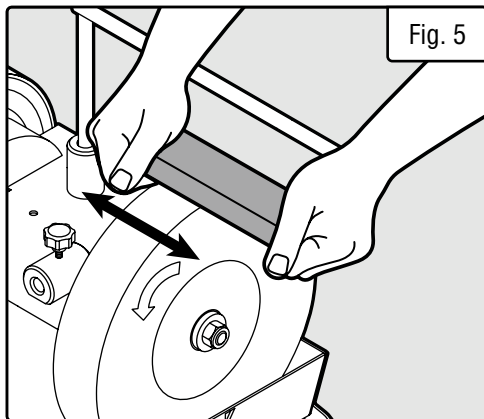
The stone grader has two different grit options:

- **60-Grit** - If the grinding wheel is severely warped from use, use this side to quickly restore the wheel to its normal shape and profile.

- **120-Grit** - If the grinding wheel is not severely warped but is clogged with metal particles, use this side to clean the wheel.

1. Rest your wrists on the support bar and press the stone grader hard against the grinding wheel for 20 -30 seconds as shown in Fig. 5. Move it back and forth across the wheel evenly. The grinding wheel is ready when you can feel the grains with your fingers.

2. You can also use the stone grader to quickly and roughly grind heavily-damaged blades back into shape, before sharpening them on the grinding wheel.



**THANKS FOR
REMEMBERING** 

NEED HELP? CONTACT US!

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

 **1-847-429-9263 (M-F 8AM-5PM CST)** |  **TECHSUPPORT@WENPRODUCTS.COM**

NOTE: Please refer to wenproducts.com for the most up-to-date instruction manual.

NOTE: For your full warranty statement, please visit wenproducts.com

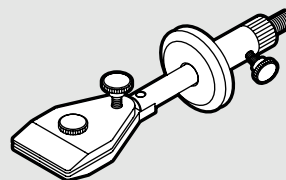
MODEL 42704B



WET & DRY SHARPENER SHARPENING ACCESSORIES

PACKING LIST

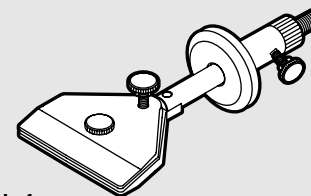
SHORT KNIFE JIG



Suitable for:

- Knives with blade length from 2-3/8" to 6-1/4"
- Drawing knives

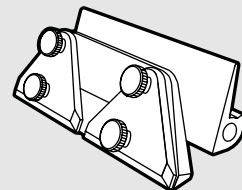
LONG KNIFE JIG



Suitable for:

- Long and thin knives with blade length over 6-1/4"

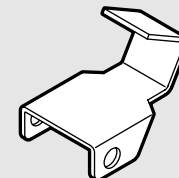
SCISSOR JIG



Suitable for:

- Scissors
- Garden Shears

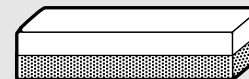
AXE JIG



Suitable for:

- Axes with blade length up to 6-5/8"

STONE GRADER



Suitable for:

- Rough grinding of heavily-damaged blades
- Grinding wheel repairs

INSTRUCTION MANUAL

⚠ WARNING! To reduce the risk of serious injuries and damage to the tool, read and understand the user's manual for your sharpener as well as all of the instructions on this guide before using the tool and accessories.

OPERATION

SHORT & LONG KNIFE JIG

Grinding Direction:

- With the wheel rotation (Fig. 2 - 1).

To Adjust Grinding Angle:

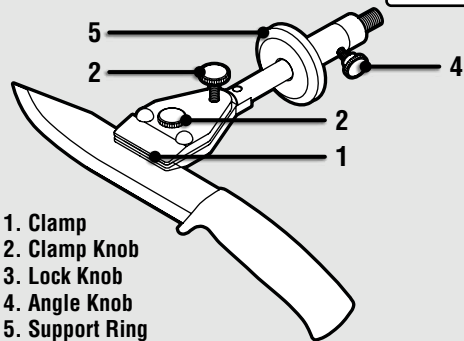
- **Coarse Tune:** Adjust the support bar height.
- **Fine Tune:** Adjust the support ring (Fig. 1 - 5).

Grinding Angle Recommendation:

- 25° for slicing or paring knife.
- 40° for meat or chopping knife.

KNOW YOUR KNIFE JIG

Fig. 1

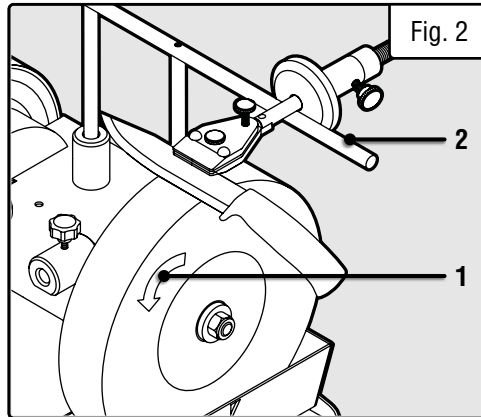


CLAMPING THE KNIFE

1. Loosen the clamp knob (Fig. 1 - 2).
 2. Loosen the lock knob (Fig. 1 - 3).
 3. Insert the knife into the clamp (Fig. 1 - 1). Tighten the lock knob (Fig. 1 - 3). Tighten the clamp knob (Fig. 1 - 2).
 4. Adjust the grinding angle so the blade edge is flat against the grinding wheel.
- **Coarse Adjustment:** Adjust the support bar height.
 - **Fine Adjustment:** Loosen the angle knob (Fig. 1 - 4) and adjust the support ring (Fig. 1 - 5) position.
5. Tighten all knobs.

NOTE: Always grind knives with the grinding or stropping wheel spinning away from you.

NOTE: The jig needs to grip the back of the knife at least 1/16" (2mm).



SHARPENING THE KNIFE

1. Slide the cutting edge back and forth across the stone with even pressure. Follow the blade's contour, keeping the beveled edge against the grinding wheel.
2. Flip the blade over and sharpen the opposing edge. Repeat until both sides are sharp and even.

TIP: Color the blade's edge with a marker so you can see where the grinding occurs and make angle adjustments as necessary.

HONING THE KNIFE

1. Flip the support bar (Fig. 2 - 2) to the stropping wheel side.
2. Prime the stropping wheel surface with machine oil. Then apply an even layer of honing paste.
3. Hone the burr on the blade's edge using the same motion as sharpening.
4. Ensure the burrs are removed by pulling the edge over the surface of a piece of end grain wood.

OPERATION

SCISSOR JIG

Grinding Direction: With the wheel rotation.

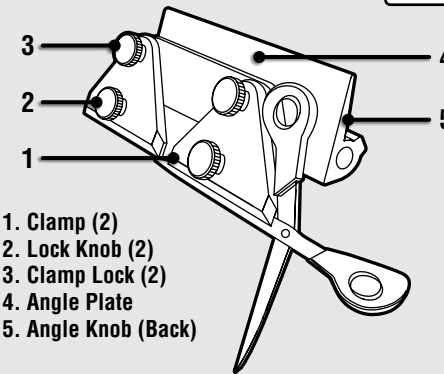
To Adjust Grinding Angle:

- **Coarse Tune:** Adjust the support bar height.
- **Fine Tune:** Adjust the angle plate.

Grinding Angle Recommendation: 60°

KNOW YOUR SCISSOR JIG

Fig. 3



CLAMPING THE SCISSORS

1. Slide the angle plate (Fig. 3 - 4) onto the support bar.
2. Adjust the angle and tighten the angle knob (Fig. 3 - 5) on the back of the angle plate.
3. Loosen the lock knobs (Fig. 3 - 2) and clamp knobs (Fig. 3 - 3) on the scissors holder.
4. Insert the scissors into the clamp (Fig. 3 - 1). Use the right clamp for small scissors, use both clamps for large scissors. The cutting edge should be parallel to the clamp and protrude about 1/8" (3 mm).
5. Tighten all knobs.

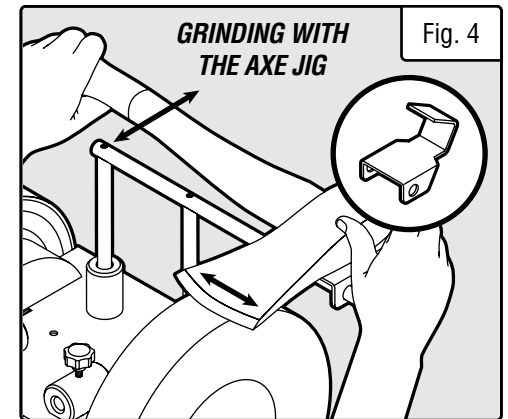
SHARPENING THE SCISSORS

1. Slide the jig against the angle plate with a light downward pressure. Grind with stroking motion and even pressure. Follow the blade's contour, keeping the beveled blade edge against the grinding wheel.
2. Clamp and sharpen the other blade.

REMOVING BURRS

NOTE: Do not hone on the stropping wheel.

Remove the slight ridge by pulling the scissors over the surface of a piece of end grain wood.



AXE SHARPENING JIG

Grinding Direction: Against the wheel rotation (Fig. 4).

To Adjust Grinding Angle:

- Adjust the support bar height.

CLAMPING THE AXE

1. Slide the axe jig onto the support bar.
2. Insert the axe into the axe jig groove.
3. Adjust the grinding angle by raising or lowering the support bar.
4. Tighten all knobs.

SHARPENING THE AXE

The stropping wheel can be removed to provide more space for the handle.

1. Hold the axe head with one hand and the axe handle with the other hand. Rock the axe handle back and forth to sharpen the entire edge.
2. Repeat with the other edge.

HONING THE AXE

1. Flip the support bar to the stropping wheel side.
2. Prime the stropping wheel surface with machine oil. Then apply an even layer of honing paste.
3. Hone the burr on the blade's edge using the same back-and-forth motion as used when sharpening.