



**KEN UNION EDITION**

# SHARPENING CENTER INSTRUCTIONS



## USER'S GUIDE

**CONTACT US:**

WORKSHARPTOOLS.COM  
800.597.6170

**SCAN:**

FOR VIDEO  
TRAINING



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## RESOURCES

### Re-Ordering Materials:

PP0003966 - WSKO-SS Mat  
PP0003975 - Instruction Booklet  
SA0003968 - Abrasives Kit  
SA0003970 - Supplies Kit

### Help Requests:

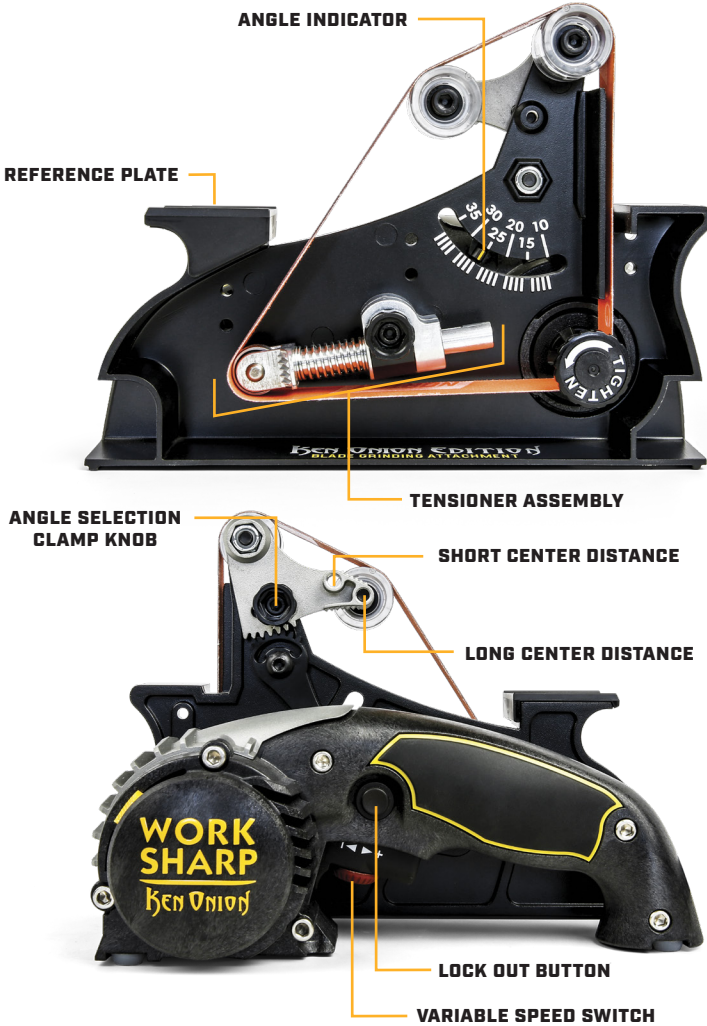
Call Tech Support - 800.418.1439  
Call Darex Sales Team - 800.597.6170  
Email Darex Sales Team - [info@darex.com](mailto:info@darex.com)

## ADDITIONAL TRAINING RESOURCES

<https://tinyurl.com/LearnWorkSharp>



# TOUR OF THE SHARPENER



## SUPPLIES KIT

- 1 Microfiber Cloth
- 1 Cleaning Brush
- 1 Pair of Safety Glasses

= SA0003970

## ABRASIVE KIT

- 10 P120 Sharpening Belts
- 10 X4 Honing Belts

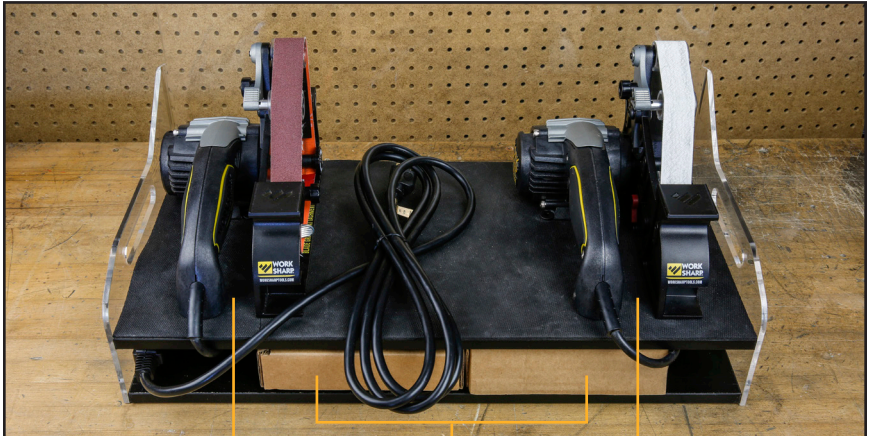
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# BELT INFORMATION

		
Grit	<b>P120</b>	<b>X4</b>
Color	Red	White
Abrasive	Coarse 120	Fine 3000
Use	Sharpen	Hone

## SET UP

- 1** | Pull the sharpening station out.
- 2** | Plug it in.



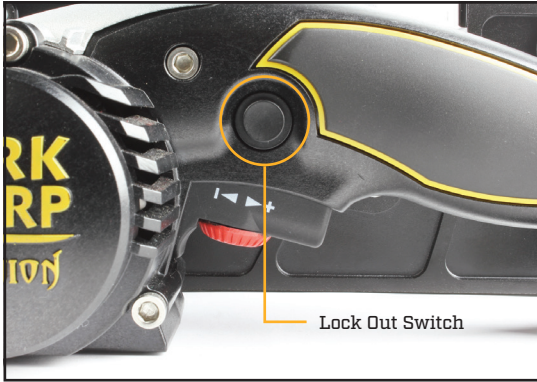
Sharpening Unit

Honing Unit

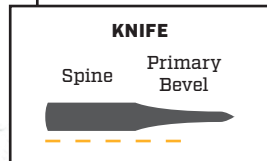
Supply and Abrasive Kits

# SHARPENING

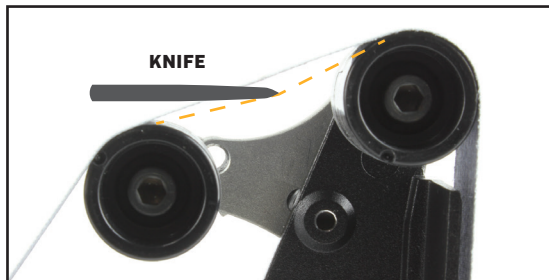
- 1 Start with the Sharpening Unit (red belt). Turn on power at medium speed and press switch lock out button.



- 2 Place spine of the blade flat onto reference plate. While keeping blade flat, move up onto belt surface and place the heel of the blade edge onto the abrasive.



Use very light pressure on belt (1/16" deflection).



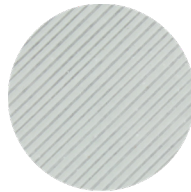
- 3** | Move blade flat across abrasive (1" per second) and stop with the tip on the middle of the belt. Then pull blade back and away from the belt.



- 4** | Continue sharpening the same side of the blade until a burr is raised along entire edge (count strokes).
- 5** | Repeat same number of strokes on other side of blade.
- 6** | Use other sharpener to hone the blade using X4 honing belt.



**P120**



**X4**

## **EXPANDED EDUCATION**

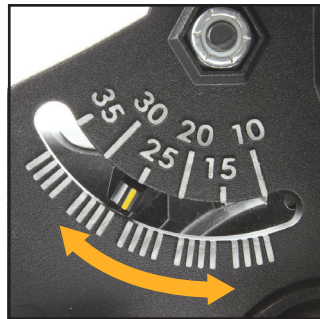
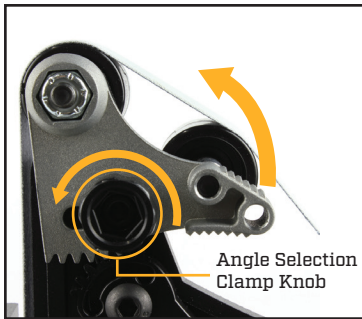
### **EDGE PROFILE**

Choose either short or long center location for pulley depending on preference.



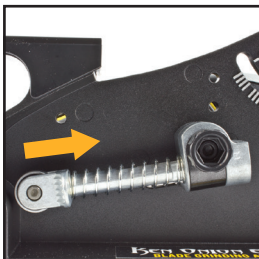
## ANGLE ADJUSTMENT

Set the desired edge profile angle. Then Move the Angle Adjustment Lever to the desired setting. Tighten Angle Selection Clamp Knob to secure.



## BELT CHANGE

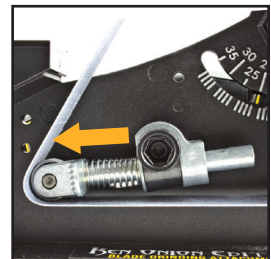
- 1 Push in and turn tensioner clockwise to install / uninstall belt.



Push Tensioner in

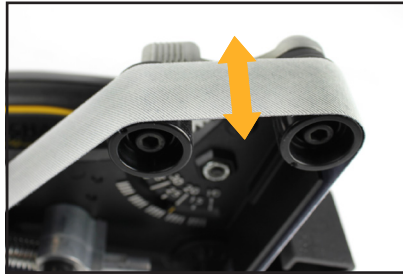
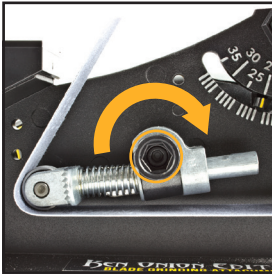


Turn Tensioner to lock into position



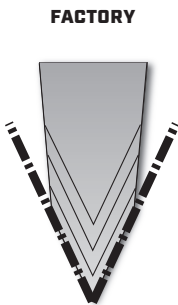
Release Tensioner once belt is in place

**2** | Use tracking knob to center belt on pulley.

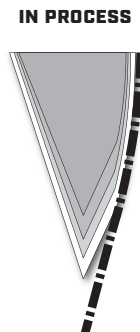


## BEST TECHNIQUES

- | Use light pressure while sharpening.
- | Sharpen until you get a burr with the P120 belt.
- | Keep both sharpeners at the same angle.
- | Always use medium speed.
- | Stop the blade tip on the middle of the belt.
- | **Sharpening Process:**

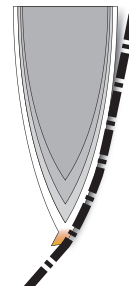


Most knives are flat ground and have a smaller bevel height or surface area.



Re-sharpening to a lower angle and a convex grind takes time.

**CONTINUE TO NEXT GRIT**



Sharpen until a burr is raised before switching to a finer grit belt.



Use cleaning brush to keep machine clean.

Use cloth to keep knives clean.

Replace belts every 50-75 sharpenings.

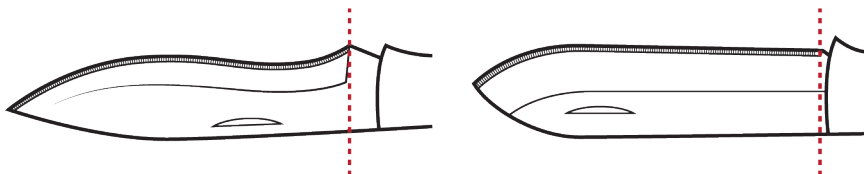
During heavy grinding, do not over-heat the blade.

Do not over-tension belt or it may negatively affect belt tracking. If Over-Tension Mark is visible, lower tension.



Over Tension Mark

Follow the curve of the knife when sharpening for best results.



Position belt at the very start of the edge then stop tip on belt.

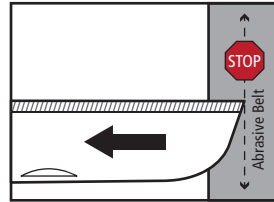
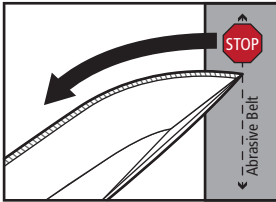
## TROUBLESHOOTING

**PROBLEM:** Knife not getting sharp.

- **Take more strokes:** Grind all the way to the edge. Continue until a burr is raised. Then progress to the finer belt.
- **Use a higher speed:** Slow belt speeds may not be removing enough material.

**PROBLEM:** The tips of my knives are becoming rounded.

- **Solution 1:** Stop the tip on the belt.
- **Solution 2:** Keep the blade edge perpendicular to the belt. To reduce tip rounding, follow the curve of the blade.



Follow the shape of the blade so the edge remains perpendicular to the belt. Stop on belt.

**PROBLEM:** How do I feel for a burr at the cutting edge to know when to proceed to the finer belt?

- **Solution:** Slide your finger perpendicular and away from the cutting edge. The burr will feel like a small 'ridge' or 'wire' at the edge.



# FAQs

**Question:** How long do the belts last?

**Answer:** The premium Norax belts last on average about 50-75 sharpenings per belt.

**Question:** How do I know what angle the knife is at?

**Answer:** Simply color the edge of your blade with a marker, make 1 pass using the fine grit belt and see how closely you match the bevel.

**Answer:** 25° is a common edge angle for most pocket knives.

**Question:** How do I sharpen serrations?

**Answer:** Use only the fine grit belt on the flat side of the edge. Teeth should be facing away from the direction of the belt. Hold near flat to remove burr. Watch training video for demo.

**Question:** Which edge is better, convex or flat grind?

**Answer:** Obviously a sharp edge of any type is better than a dull edge and 'better' is a matter of opinion. While a highly polished convex edge cuts very cleanly with little resistance, a flat ground edge is still capable of accomplishing most cutting tasks. A convex edge provides the most durable edge at a given angle and has less drag compared to other edge grind types due to smooth transition lines.

**Question:** Where do I get new belts?

**Answer:** Call 800.418.1439 and reference Part # SA0003968 to order replacement belts.



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***CONTACT US FOR ADDITIONAL SUPPORT:***

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