

WORK SHARP® KNIFE & TOOL SHARPENER KEN UNION EDITION BLADE GRINDING ATTACHMENT



Video Demos and Replacement Belts Available at:

WORKSHARPTOOLS.COM

INSTALLATION:

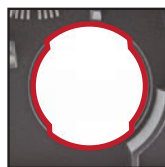
- 1 Push lock release lever & rotate knife sharpening cassette to remove cassette.



- 2 Install Blade Grinding Attachment by aligning the chassis to the keyed "on / off" position then rotate into the "sharpening position".



Power Platform



Blade Grinding Attachment

SAFETY INFORMATION:

Use only as directed in Work Sharp User's Guide.

WARNING: To minimize the risk of injury, always use proper eye and respiratory protection. Use only as directed in Work Sharp User's Guide.

WARNING! CHOKING HAZARD!
Small Parts - Not for children under 3-yrs.

WARNING: This product contains a chemical known to the State of California to cause cancer. Some dust created by power sanding and grinding as well as contents from the machine may contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Darex, LLC
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Ashland OR 97520
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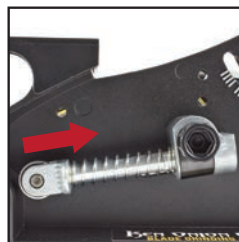
Internet: www.worksharptools.com

- 3 Install Hub Fastener onto drive shaft.



Remember: Counter-clockwise to tighten, clockwise to loosen.

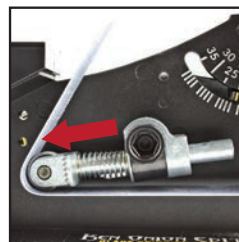
- 4 Push in and turn tensioner clockwise to install / uninstall belt.



Push Tensioner in

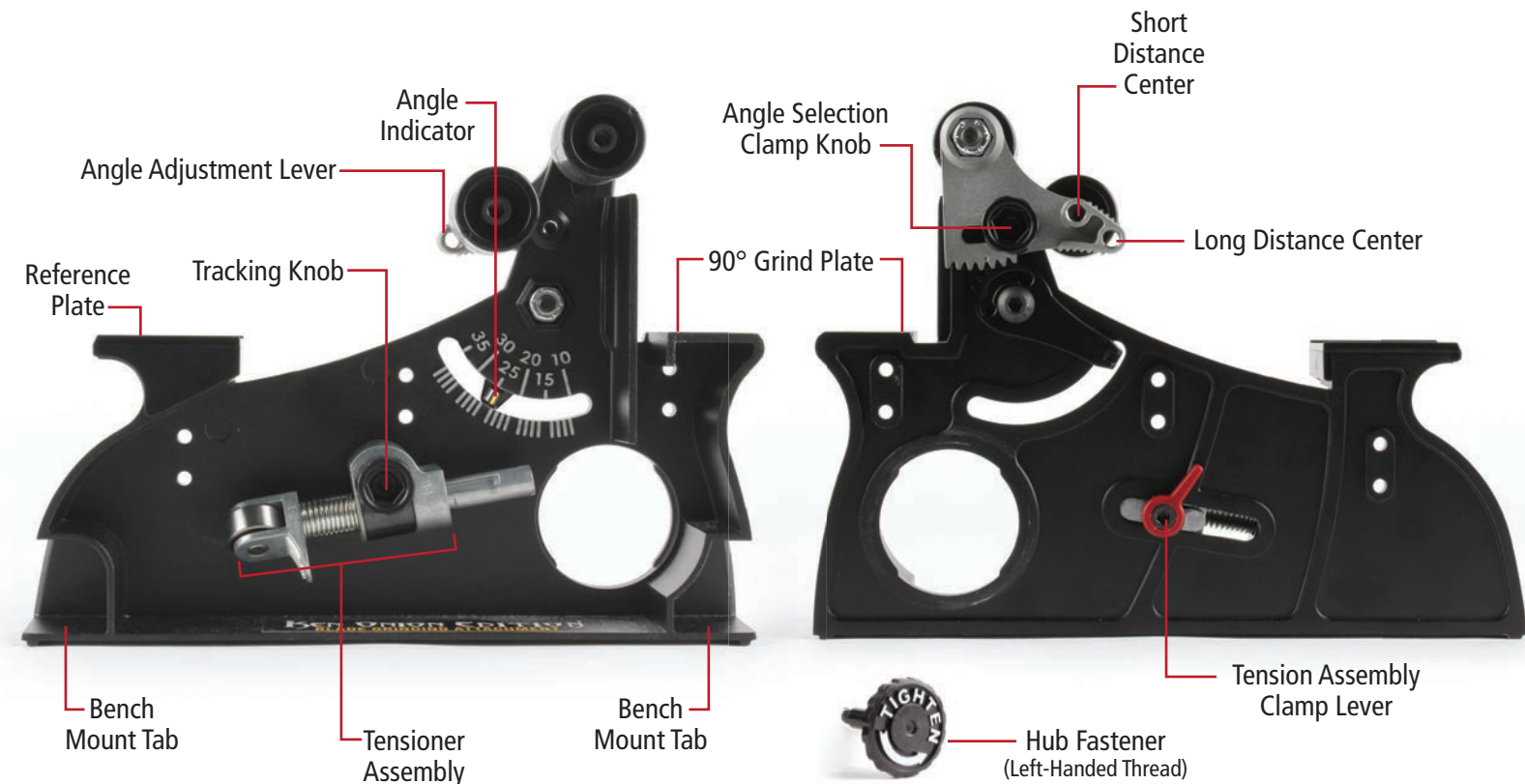


Turn Tensioner to lock into position

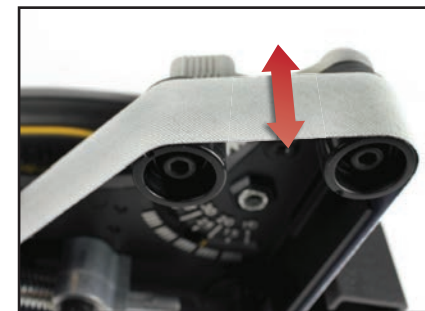
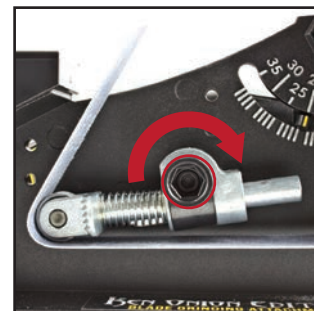


Release Tensioner once belt is in place.

GET TO KNOW YOUR TOOL:



- 5 Use tracking knob to center belt on pulley.



Optional: Use a clamp to secure to work bench.



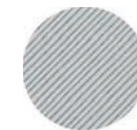
Bench Mount Tabs

BELT INFORMATION:

Included 1" X 18" belts are listed below.
Replacement Belt Kits (WSSAKO81115) are available at select retailers and WorkSharpTools.com.



Grit: **X65 Grit | Coarse**
Size: **Norax 65μ**
Use: **Shape**



Grit: **X22 Grit | Medium**
Size: **Norax 22μ**
Use: **Sharpen**



Grit: **X4 Grit | Fine**
Size: **Norax 4μ**
Use: **Hone**

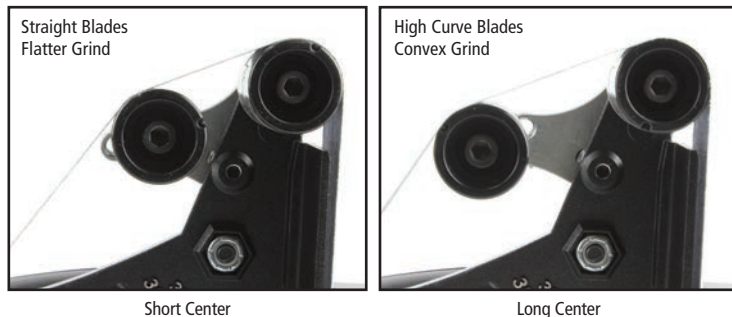


Grit: **12000 Grit | Extra Fine**
Size: **SiC 1μ**
Use: **Strop**

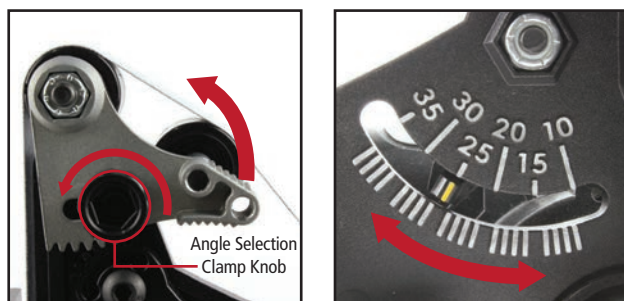
For reference, belts are equivalent to: X65 (P220) | X22 (P1000) | X4 (P3000)

TOOL SET UP:

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



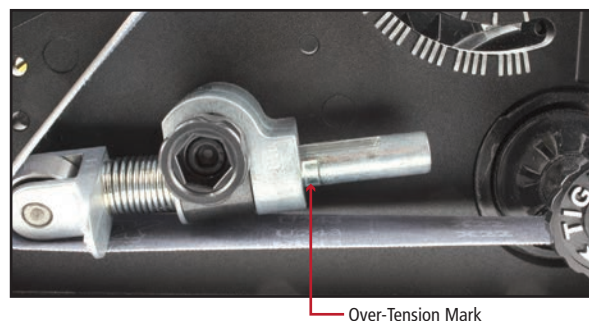
- 2 Set the desired sharpening angle, set tensioner into lock position, then move the Angle Adjustment Lever. Tighten Angle Selection Clamp Knob to secure selected angle.



BEST TECHNIQUES:

Be mindful that accommodations will need to be made for every blade such as thumb studs, pocket clips, blade profile or handle design. Test run the blade through the process on both bevels without power first to ensure accommodations can be made before sharpening.

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

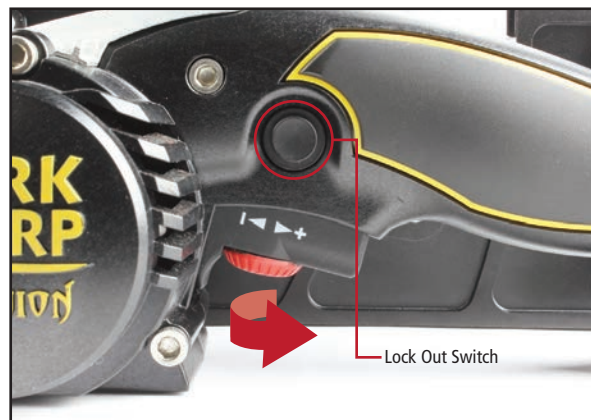


Use a clamp to secure to work bench.

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

- 3 Choose and mount a belt based on the task at hand (see Belt Information Section for details).

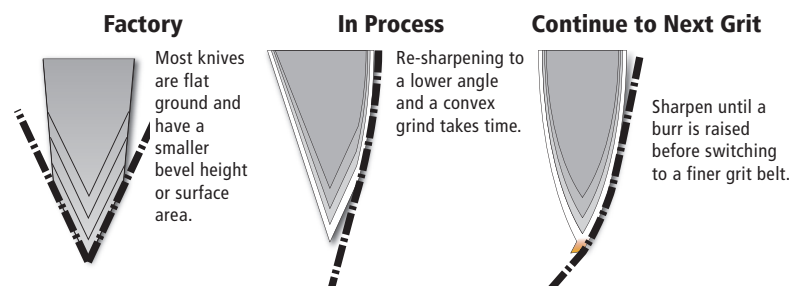
- 4 Turn on power at medium speed and press switch lock out button.



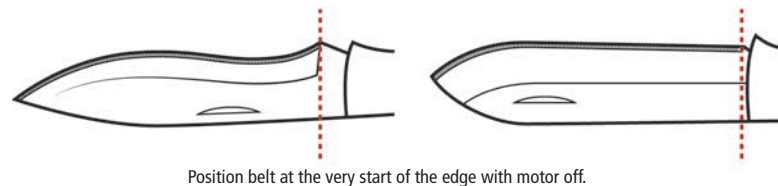
- 5 Ensure belt is properly tracking so it is centered on the pulleys.

The tool is ready for use. Continue to Sharpening Section.

Sharpening Process:



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



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- Masking tape can protect blade from scratching during sharpening.

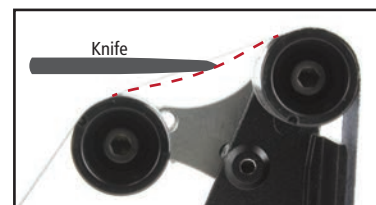
- Use a practice knife to learn.

SHARPENING:

- 1 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).



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

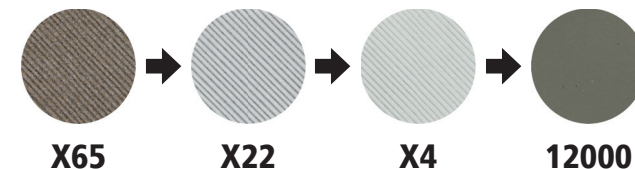


- 3 Continue sharpening the same side of the blade until a burr is raised along entire edge (count strokes).



- 4 Repeat same number of strokes on other side of blade.

- 5 Continue up the grit scale until desired sharpness is achieved. Ensure tracking and tension is properly set when you change belts.



TROUBLESHOOTING:

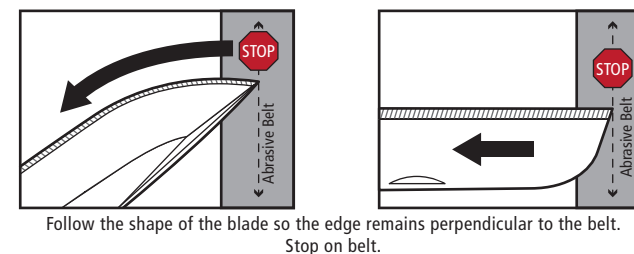
Knife not getting sharp?

- **More strokes** - Grind all the way to the edge. Continue until a burr is raised. Then progress to a finer belt.
- **Higher Speed** - Slow belt speeds may not be removing enough material.
- **Coarser Belt** - Coarser grit belts will remove material more aggressively.

a) 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.



c) Problem: How do I feel for a burr at the cutting edge to know when to proceed to a 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.

See image in the Sharpening Section, Step 3.

ACCESSORY LIST:

WSKTS-KO Blade Grinding Belt Kit (1" x 18" belts): WSSAK081115

Individual Extra Coarse P120 Grit Belt (1" x 18" belts): PP0002770

Individual Coarse X65 Grit Belt (1" x 18" belts): PP0002940

Individual Medium X22 Grit Belt (1" x 18" belts): PP0002942

Individual Fine X4 Grit Belt (1" x 18" belts): PP0002943

Individual Extra Fine 12,000 Grit Belt (1" x 18" belts): PP0002952

Leather Belt Kit (1" x 18" belts with .5μ compound): WSSA0002782

WARRANTY:

1-year warranty on all **WORK SHARP®** components; excludes abrasives. Warranty for consumer not industrial use.

DAREX, LLC

Function: BILL

Single Level Bill

Option: A

In Eff: 071717

Out Eff: 123179

Parent: WSSAKO81112

Desc: WSKTS-KO BLADE GRINDING ATTACHMENT

Revision: 0

Um: EA

Run Lead Time: 5

Fixed Lead Time: 0

Planner: AP

Lt: N

Planning Policy: N

Drawing:

Starting:				Pt Use	Seqn	Component							
Pt	Use	Seqn	Component	Description	C	Quantity	T	U	M	L			
					T			B	T				
0		005	PP0003079	WSKTS-KO BLADE GRINDING ATTACH FRAME	N	1	I	EA	B	N			
0		010	PP0003081	WSKTS-KO BLADE GRINDING ATTACHMENT INDICATOR GEAR	N	1	I	EA	B	N			
0		015	PP04053FF	1/4-20X5/8 BT HD CP SCR	X	1	I	EA	B	N			
0		017	PP0002204	1/4-20 JAM NYLOCK	X	2	I	EA	B	N			
0		020	SA0003124	WSKTS-KO BLADE GRINDING ATTACH DRIVEN PULLEY ASSEMBLY	N	2	I	EA	B	N			
0		021	PP0003080	WSKTS-KO BLADE GRINDING ATTACHMENT PULLEY GEAR	N	1	I	EA	B	N			
0		022	PP0003082	WSKTS-KO BLADE GRINDING ATTACH SPACER	N	1	I	EA	B	N			
0		023	PP0003085	WSKTS-KO 1/4 -20 X 1.5" SHCS	X	2	I	EA	B	N			
0		025	SA0003140	WSKTS-KO BLADE GRINDING ATTACH #10 KNOB X 1/2" ASSEMBLY	N	1	I	EA	B	N			
0		030	PP0003087	WSKTS-KO BLADE GRINDING ATTACH TENSIONER	N	1	I	EA	B	N			
0		035	PP0003109	WSKTS-KO BALL BEARING - 1/4 X 11/16 X 5/16"	N	1	I	EA	B	N			
0		040	PP08068FF	1/4" X 5/8" DOWEL PIN	X	1	I	EA	B	N			
0		045	PP0003133	WSKTS-KO .480 X 2 X .045 SPRING	N	1	I	EA	B	N			
0		050	PP0003084	WSKTS-KO BLADE GRINDING ATTACH TRACKING MOUNT	N	1	I	EA	B	N			
0		055	SA0002600	WS3000 BELT SHARPENING SYS TRACKING KNOB SUBASSY	N	1	I	EA	B	N			
0		060	PP0002554	WS3000 BELT SHARPENING SYS TRACKING CAP	N	1	I	EA	B	N			
0		060	PP0002353	NUT 10-32 X .125 THICK	N	1	I	EA	B	N			
0		067	PP0002458	10-32 NYLOCK JAM NUT	X	1	I	EA	B	N			
0		070	PP0002351	PLAIN WASHER - #10 TYPE A	X	1	I	EA	B	N			
0		075	PP0003086	WSKTS-KO 10-24 X .5 SHCS	X	1	I	EA	B	N			
0		080	PP60034PF	PIVOT LOCK LEVER	N	1	I	EA	B	N			

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Lt: N

Planning Policy: N

Drawing:

Pt Use

Seqn

Component

Starting:

Pt	Use	Seqn	Component	Description	C	Q	M	L
					T	Quantity	T	Um
0		085	PP0003116	WSKTS-KO BLADE GRINDING ATTACH SHARPENING PAD	N	1	I	EA
0		090	SA0003202	WSKTS-KO BGA BELT KIT SUBASSEMBLY	N	1	I	EA
0		095	PP0003201	WSKTS-KO BLADE GRINDING ATTACH RETAIL BOX - ENG (WSSAKO81112)	N	1	I	EA
0		100	PP0003213	WSKTS-KO BLADE GRINDING ATTACH USERS GUIDE - ENG/GER/FRE	N	1	I	EA
0		102	PP0003520	WSKTS-KO BGA LOT DATE CODE STICKER	P	1	I	EA
0		105	WC[R]WSLABOR	WORK SHARP LABOR	R	.2	I	EA