



X-tra EDGE

Professional Cutlery Sharpening System

CE Operator's Manual
Version 2.0

Manufactured by:
Edge Manufacturing, Inc.
1120 Mason Circle South
Pevely MO 63070
www.edgemfg.com
636-224-0004

EU Authorized Representative:
EDGE Manufacturing GmbH
Maurerstrasse 7
21244 Buchholz Germany
www.edgegmbh.de
+49 4181 35 09 25

EDGE MANUFACTURING

X-tra Edge Professional Cutlery Sharpening System

We thank you for your purchase of an X-tra Edge professional cutlery sharpener. It is designed, and manufactured to give you the best possible endurance and production. Please remember, performance is entirely reliant upon sensible use and careful maintenance.

Your machine is factory set and tested. Before operating the unit, please read this manual completely, and maintain it for future referral. You are then ready to sharpen cutlery. Please be careful. This machine produces extremely sharp edges.

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1.0 MACHINE SPECIFICATIONS

The model and serial numbers of your machine are located on the underside of your unit as well as being listed below. Refer to these numbers in any correspondence relating to this product.

Description	Data
Model Number	111009700
Voltage	Single Phase 230VAC
Frequency	50/60 Hz
	THERMALLY PROTECTED

Serial Number: _____

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2.0 SAFETY

2.1 GENERAL SAFETY INSTRUCTIONS FOR THE X-tra EDGE CUTLERY SHARPENER SYSTEM



WARNING: Read and understand the entire contents of this manual before using the machine. Always keep the operating instructions handy at place of use.

1. **MACHINE MAY ONLY BE USED BY PERSONS FAMILIAR WITH ITS HANDLING AND ABLE TO RECOGNIZE POSSIBLE EMERGING DANGER DURING OPERATION.**
2. **DO NOT USE THE MACHINE FOR PURPOSES OTHER THAN THOSE FOR WHICH IT WAS DESIGNED.**
3. **KEEP GUARDS IN PLACE.** Safety guards must be kept in place and in working order.
4. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in “OFF” position before plugging into receptacle. (Depressing the ‘O’ side of the switch denotes the “OFF” position. Depressing the ‘I’ side of the switch denotes the “ON” position.)
5. **MAINTAIN MACHINE WITH CARE.** Keep machine adjusted properly and clean for best and safest performance.
6. **DISCONNECT MACHINE FROM POWER BEFORE SERVICING, OR WHEN CHANGING ACCESSORIES.**
7. **USE RECOMMENDED ACCESSORIES.** Consult the “Replacement Parts” section of this manual for recommended accessories, grinding wheels, and replacements parts. The use of improper accessories may cause injuries.
8. **MACHINE DAMAGE.** Any part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function safely. Check for alignment of moving parts, binding of moving parts, broken parts, and any conditions that may affect operation. Any damaged part should be properly repaired or replaced.
9. **NEVER LEAVE MACHINE RUNNING UNATTENDED.**
10. **WEAR PROPER APPAREL.** Loose clothing, neckties, rings, bracelets, or other jewelry can get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
11. **ALWAYS USE APPROVED SAFETY GLOVES AND SAFETY GLASSES.** Safety glasses should have side shields. Gloves should be form fitting.
12. **DO NOT USE IN DANGEROUS ENVIRONMENTS.** Do not use machine in damp or wet locations or expose to water. Keep work area well lighted.
13. **DO NOT OVERREACH.** Keep proper footing and balance at all times while using this machine.

2.2 Appropriate Use

The X-tra EDGE Professional Cutlery Sharpening System can be used for professional sharpening of hand knives with plain edge. Other use beyond its purpose is considered as not appropriate. Edge Manufacturing, Inc. is not liable for damages caused hereby. Solely the user carries the risk. Appropriate use also implies following the operating instructions.

2.3 SAFETY GUIDE FOR GRINDING WHEEL USERS

IMPORTANCE OF PROPER MACHINE MAINTENANCE

Grinding is a safe operation if the few basic rules listed below are followed. These rules are based on material contained in the ANSI B7.1 Safety Code for "Use, Care and Protection of Abrasive Wheels". For your safety, we suggest you benefit from the experience of others and carefully follow these rules.



WARNING: IMPROPER USE MAY CAUSE BREAKAGE AND SERIOUS INJURY.

DO	and	DON'T
1 DO ALWAYS HANDLE AND STORE WHEELS IN A CAREFUL manner.		1 DON'T USE A CRACKED WHEEL OR ONE THAT HAS BEEN DROPPED or has become damaged.
2 DO VISUALLY INSPECT all wheels before mounting for possible damage and ring test vitrified wheels.		2 DON'T FORCE A WHEEL ONTO THE MACHINE OR ALTER the size of the mounting hole - if wheel won't fit the machine, get one that will.
3 DO CHECK MACHINE SPEED against the established maximum safe operating speed marked on wheel.		3 DON'T EVER EXCEED MAXIMUM OPERATING SPEED established for the wheel.
4 DO CHECK MOUNTING FLANGES for equal and correct diameter.		4 DON'T USE MOUNTING FLANGES ON WHICH THE BEARING SURFACES ARE NOT CLEAN, FLAT AND FREE OF BURRS.
5 DO USE MOUNTING SPACERS (PAPER BLOTTERS) when supplied with wheels.		5 DON'T TIGHTEN THE MOUNTING NUT EXCESSIVELY.
6 DO BE SURE WORK REST is properly adjusted. (Center of wheel or above; no more than 1/8" (3.175mm) away from wheel.)		6 DON'T GRIND ON THE SIDE OF THE WHEEL (see Safety Code B7.1 for exception).
7 DO ALWAYS USE A SAFETY GUARD covering at least one-half of the grinding wheel.		7 DON'T APPLY LIQUID TO GRINDING WHEELS. Wheels must be run dry. Applying any liquid will result in wheel damage.
8 DO ALLOW NEWLY MOUNTED WHEELS to run at operating speed, with guard in place, for at least one minute before grinding.		8 DON'T START THE MACHINE UNTIL THE WHEEL GUARD IS IN PLACE.
9 DO ALWAYS WEAR SAFETY GLASSES or some type of eye protection when grinding.		9 DON'T JAM work into the wheel.
		10 DON'T STAND DIRECTLY IN FRONT of a grinding wheel whenever a grinder is started.
		11 DON'T FORCE GRINDING so that motor slows or work gets hot.

POST THIS NEAR YOUR GRINDING MACHINE.

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These brief general rules cannot cover many questions on special grinding application. ADDITIONAL and more detailed information is contained in the booklets listed below, all of which are available by writing to:

Grinding Wheel Institute
30200 Detroit Road
Cleveland, Ohio 44145-1967

SAFETY BOOKLETS

- Mounting Techniques for Cylindrical and Centerless Grinding
- Portable Grinding Machines, Safe and Efficient Operation
- ANSI B7.1 Code for the Use, Care and Protection of Abrasive Wheels
- Safety Recommendations for Grinding Wheel Operation
- Abrasive Machining
- The Grinding Wheel
- Disc Grinding - Safe Rules and Methods
- Handling, Storage and Inspection of Grinding Wheels

 **WARNING:** Grinding generates dust. Most of the dusts generated when grinding are from the material being ground. Excessive dust inhalation may affect the breathing function. To avoid breathing impairment always employ dust controls and/or protective measures appropriate to the materials being ground. The name and address of the responsible party is located on the container. See FEDERAL HAZARD COMMUNICATION STANDARD 29CFR.1910.1200.

 **WARNING:** Improper use may cause grinding wheel breakage and serious injury. Comply with ANSI B7.1, OSHA, and safety guide furnished with this package. Don't overspeed, abuse, or drop wheel. Always use a guard, personal protective equipment and proper mounting procedures.

3.0 SYMBOLS AND SIGNS

3.1 Symbol description

Symbol form/shape	Symbol description/application	Symbol form/shape	Symbol description/application
	Read & understand operator's manual before using this machine.		Wear eye protection
	Warning Avoid injury. Do not operate machine without all guards in place.		Pinch point hazard. Keep hands clear.
	Hazard Warning Symbol		Hand entanglement hazard. Keep hands clear.
	Electrical Hazard		

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3.2 Machine Labels



Part Number: 110025



Part Number: 110031



Part Number: 110026



Part Number: 110032



Part Number: 11-E98-9009

4.0 SPECIFICATIONS

X-tra EDGE Model: 111009700

Overall Footprint (L x W x H):
338mm x 307mm x 190.5mm
(13.3" x 12.1" x 7.5")

Motor:
Pre-wired 230v ~ 50 Hz. 1.3 amp Thermally Protected

Net Weight (approx.):
13 kg (29 lbs.)

Shipping Weight (approx.):
15.6 kg (34.4 lbs)

Sound Output Measurement Data:
Measurement Procedure: Data taken at 1 meter (~3ft, 3 inches) from the surface of the machine, at a height of 1.6 meters (~5ft, 3 inches) from the floor.

Sound Emission:

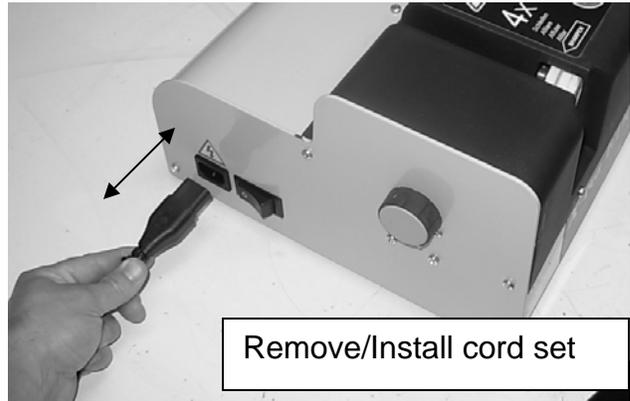
Machine on:	60 dB(A)
Sharpening Knife:	76 dB(A)
Honing Knife:	72dB(A)

5.0 ELECTRICAL DATA

POWER CONNECTION:
230V ~ 50 Hz 1.3Amp 1Phase

Unit is connected to power source with an IEC-320-C13 ended cord set.

 **WARNING:** When performing any maintenance to the machine, the power must be removed by removing this cord set from the power inlet of the machine.



 **WARNING:** Failure to properly ground this power tool can cause serious electrical shock. Not all outlets are properly grounded. If you are not sure that your outlet is properly grounded, have it checked by a qualified electrician.

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CHECK VOLTAGE! Compare electrical data of machine with those of your power supply. Plug machine into outlet only when power switch is in the 'Off' position.



WARNING: DO NOT ALTER PLUG IN ANY MANNER.

6.0 GENERAL OPERATING INSTRUCTIONS

SET-UP INSTRUCTIONS

SHARPENING wheels are located on **left side** on machine. To set proper sharpening angle, locate left side adjusting knob. Turn until wheels are even without overlapping. Then adjust two (2) complete revolutions to give wheels 3 mm ($1/8$ ") overlap.

HONING wheels are located on **right side** of machine. To set proper honing angle, locate right side adjusting knob. Turn until wheels are even without overlapping. Then adjust four (4) complete revolutions to give wheels 6 mm ($1/4$ ") overlap.

To ensure proper sharpening and honing angles, these operations must be made routinely to keep wheels in proper position.

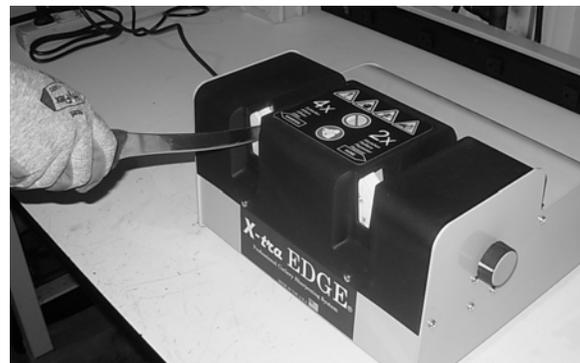
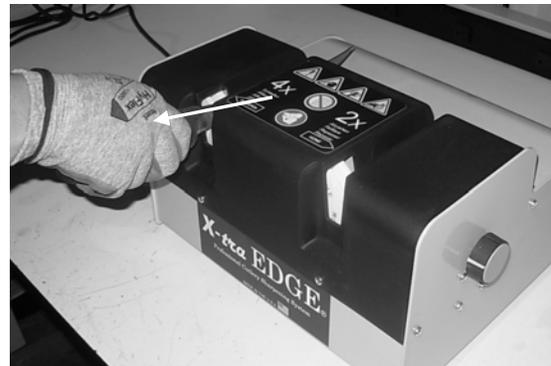
SHARPENING INSTRUCTIONS

Turn on machine.

STEP 1 – SHARPEN KNIFE: Start on sharpening side. Position a **clean and dry** knife in slot above wheels with knife handle near wheels. Lower knife blade into wheels, then pull straight out and lift handle as point passes over wheels. Use light pressure. Repeat four (4) times or until knife is sharp. Cool blade often by dipping in water or pressing against wet towel.

STEP 2 – HONE KNIFE: Slowly pull knife through honing wheels two (2) times using same instructions as above. Use light pressure on each stroke.

Repeat as needed.



WARNING: Light pressure works Best. Draw the knife toward you with very light pressure. Let the grinding wheel do its job. Extra pressure will load up the wheels. Loaded wheels will not sharpen your knife. **Insure that your knife blade is clean** before you sharpen. Fat and Blood will clog your wheels and prevent them from sharpening.

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7.0 MAINTENANCE AND CARE



WARNING: Before beginning any maintenance procedure on the **X-TRA EDGE** Sharpener, move it to a safe dry work area. Always wear safety glasses and protective clothing while performing maintenance procedures.

Keep entire machine clean at all times.

7.1 TRUING GRIND WHEELS

After repeated use, grinding wheels will get dirty and may alter in shape. A truing stick (available from Edge Manufacturing, PN: 11-E97-9006) can be used to clean and reshape the grinding wheels to suitable condition.

TO UTILIZE TRUING STICK CAREFULLY READ AND FOLLOW THE INSTRUCTIONS OUTLINED BELOW:

GENERAL PROCEDURE

(ALWAYS WEAR EYE PROTECTION AND SAFETY GLOVES)

1. Using the wheel-adjusting knob located on the left side of the machine, rotate the knob counter clockwise until the sharper wheels have a small space between them.
2. Using two hands, one at each end of the Truing Stick, place the stick between the wheels (See picture). With the machine running, lower the Truing Stick onto the wheels. Hold the stick parallel to the top of the machine. Brace the hand at the back of the machine on the machine cover for stability. Hold the Stick firmly, allowing both wheels to move against it evenly.



TRUING PROCEDURE

(ALWAYS WEAR EYE PROTECTION AND SAFETY GLOVES)

There are two basic uses for the Truing Stick:

1. Remove Steel particles that have loaded the grinding wheel. (Clean the wheels)
2. Re-shape a grinding wheel that has been misshaped from use. (True the wheels)

To *clean* the wheels, hold the Truing Stick firmly (as shown in the picture). Apply light, even pressure to the wheels until the grinding edge of the wheel has returned to its original color.

To *true* the wheels, hold the Truing Stick firmly (as shown in the picture). Hold the Truing Stick parallel to the top of the machine. Do not follow the worn shape of the wheel but rather allow the Truing Stick to re-shape the wheels to their original, parallel form.

AS THE TRUING STICK WEARS, SELECT A CLEAN, STRAIGHT SURFACE TO USE.

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FOR OPTIMUM PERFORMANCE AND WHEEL LIFE.

1. To even out wheel wear, periodically turn stones back to front.
2. Discard stones which are strongly unbalanced and/or when diameters reach 70mm (2 ¾").
3. Discard and replace stones in pairs only.

7.2 REPLACEMENT OF X-tra EDGE SHARPENING WHEELS



WARNING: READ SAFETY INSTRUCTIONS FOR GRINDING WHEELS BEFORE REPLACING.

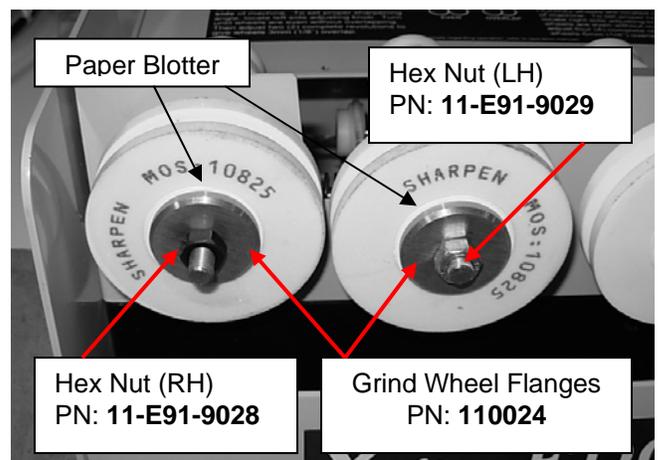
To replace **SHARPENING** grinding wheels:

1. Insure that power cord set is unplugged from machine and/or receptacle.
2. Remove Wheel Guard and set aside. (See Wheel Guard Removal.)
3. Turn adjusting knob for **SHARPENING** wheels until wheels are separated.
4. Hold wheels, remove both Hex Nuts, using an open end or box wrench.

Please note: The left shaft has a right hand thread Hex Nut, and is black. The right shaft has a left hand thread Hex Nut, and is plain.

5. Remove two Grind Wheel Flanges and old **SHARPENING** wheels.
6. Remove Paper Blotters.
7. Slide new **SHARPENING** wheels onto shafts against back Grind Wheel Flanges.
8. Replace Paper Blotters. **Note:** Paper Blotters must always be used between the **SHARPENING** wheels and the Grind Wheel Flanges to reduce the risk of damaging the **SHARPENING** wheels when the Hex Nut is tightened.
9. Slide outside Grind Wheel Flanges back onto shafts.
10. Secure wheel to left shaft with black right hand thread Hex Nut.
11. Secure wheel to right shaft with plain left hand thread Hex Nut

(Note: tighten nuts to 2 ft. lbs of torque or about 3/4 of a full revolution past being snug.) If wheels rub against one another, they may be flipped 180 degrees, one at a time, to insure proper alignment. Also, the use of a Paper Blotter may be used for alignment (Blotters are provided with replacement wheels). Replace wheel guard and plug into receptacle. Adjust wheels in accordance to general operating instructions.



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7.3 REPLACEMENT OF X-tra EDGE HONING WHEELS



WARNING: READ SAFETY INSTRUCTIONS FOR GRINDING WHEELS BEFORE REPLACING.

To replace **HONING** grinding wheels:

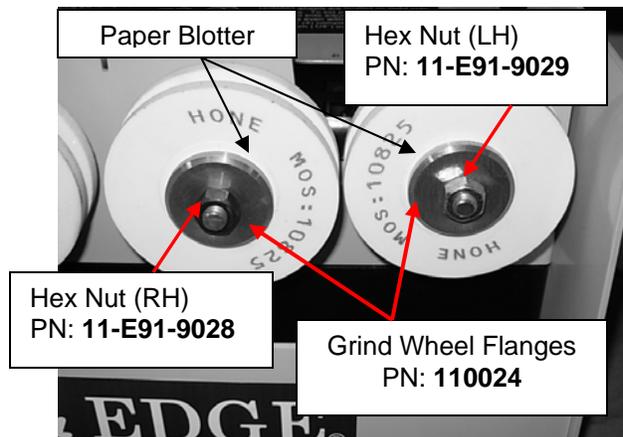
1. Insure that power cord set is unplugged from machine and/or receptacle.
2. Remove Wheel Guard and set aside. (See Wheel Guard Removal.)
3. Turn adjusting knob for **HONING** wheels until wheels are separated.
4. Hold wheels, remove both Hex Nuts, using an open end or box wrench.

Please note: The left shaft has a right hand thread Hex Nut, and is black. The right shaft has a left hand thread Hex Nut, and is plain.

5. Remove two Grind Wheel Flanges and old **HONING** wheels.
6. Remove Paper Blotters.
7. Slide new **HONING** wheels onto shafts against back Grind Wheel Flange.
8. Replace Paper Blotters. **Note:** Paper Blotters must always be used between the **HONING** wheels and the grind wheel flanges to reduce the risk of damaging the **HONING** wheels when the Hex Nut is tightened.
9. Slide outside Grind Wheel Flanges back onto shafts.
10. Secure wheel to left shaft with black right hand thread Hex Nut.

Secure wheel to right shaft with plain left hand thread Hex Nut.

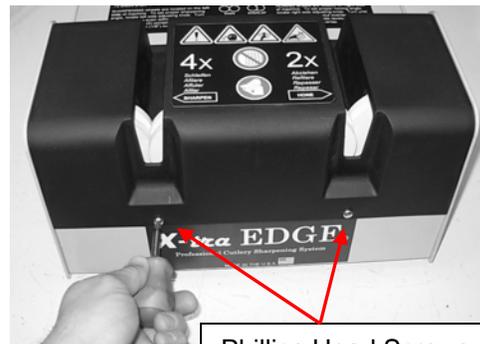
(Note: tighten nuts to 2 ft. lbs of torque or about 3/4 of a full revolution past being snug.) If wheels rub against one another, they may be flipped 180 degrees, one at a time, to insure proper alignment. Also, the use of a Paper Blotter may be used for alignment, (Blotters are provided with replacement wheels.) Replace wheel guard and plug into receptacle. Adjust wheels in accordance to general operating instructions.



7.4 WHEEL GUARD REMOVAL

To remove Wheel Guard:

1. Remove the two phillips head screws located at the front of the wheel guard.
2. Remove the two phillips head screws located at the back of the wheel guard.
3. Lift wheel guard straight up until clear of grinding wheels.



Phillips Head Screws
PN: 11-E91-9025



To replace Wheel Guard:

1. Place guard directly over the wheels and set straight down.
2. Replace and tighten the four phillips head screws to lock wheel guard in place.



7.5 SUGGESTED MAINTENANCE PROCEDURE & TIMELINE

Each use

- Inspect wheel quality. True wheels if they are loaded or misshapen (Sec 7.1).
- Inspect wheel guard quality. Excessive cuts and abrasions can reduce integrity of guard and impair safety. (See Sec. 8.0 for Replacement Part Numbers)
- Visually inspect wheel speed of both grinding wheel pairs. Each wheel rotates at approximately 1000 rpm. If a wheel is not keeping pace with the other wheels remove power from machine, remove grind wheel guard and inspect the belts and pulleys.
- Visually inspect each wheel pair for correct setting (Sec 6.0).

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Daily

- Clean any grinding grit, dust and debris from the machine.

Monthly or at every 50 hours of use

Remove grind wheel guard and inspect the following:

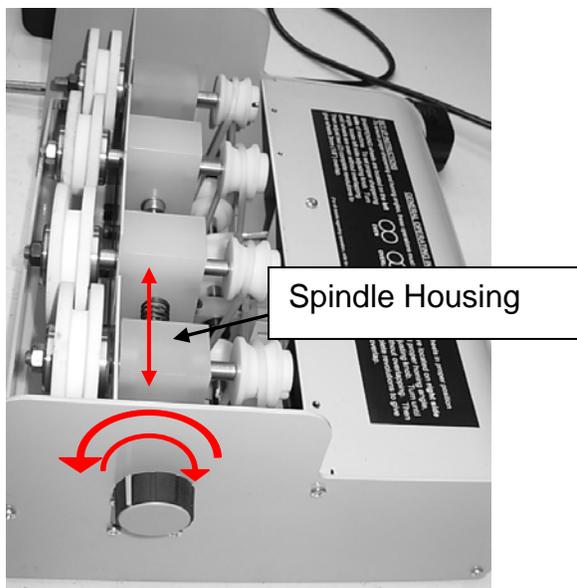
- Measure grind wheel diameters. New wheels measure 76mm (3") in diameter. A wheel has reached the end of its safe life cycle when it measures 70mm (2.75") in diameter and needs to be replaced. **Only replace grind wheels in mated pairs.** (See Sec. 8.0 for Replacement Part Numbers)
- Ensure all grind wheel hex nuts are tight.
- Inspect all belts for abrasions, rips or failure. Discoloration of these belts is normal. The belts begin life clear and will absorb dirt until black. This discoloration will not impair the belt's performance. Any belts that have failed or show excessive wear or rips need to be replaced. (See Sec. 8.0 for Replacement Part Numbers)
- Inspect all pulleys for excessive wear, movement from their original position or failure. (See Sec. 8.0 for Replacement Part Numbers)
- Ensure all screws and bolts of the grind wheel and drive assemblies are tight.
- Clean any grinding grit, dust and debris from the machine.

At 2000 hours of use

- Perform 50 hour check
- Replace all belts

Each grind wheel change

- With grind wheels removed from respective shafts, turn adjustment shaft to move adjustable spindle housing through its total range of motion.



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8.0 REPLACEMENT PARTS

When ordering replacement parts, the following information must be stated:

1. Amount of parts.
2. Part number.
3. Description.
4. Machine model/serial number.

8.1 PARTS LIST**PULLEYS**

111009075	Grind Shaft Pulley (w/ spg pin)
111009076	Output Drive Pulley - Fixed (w/ set screw)
111009077	Output Drive Pulley - Adj. (w/ set screw)
111009078	Motor Pulley (w/ set screw)
111009079	Input Drive Pulley (w/ set screw)
	BELTS
809034	Urethane Belt 3/16"dia. x 10.25"lg.
	FASTENERS
11-E91-9006	3/8 Shaft E-Style Retaining Ring
11-E91-9018	Compression Spring
808619	Adjustment Knob (5/16" bushing)
808331	1/8 Spring Pin
11-E91-9022	1/4" Shaft Collar
11-E91-9024	Star Washer
812378	M4 x 0.7mm pitch x 10mm lg. Set Screw
111009080	M4 x 0.7mm pitch x 10mm lg. Phillips Pan Head Screw (set of 25)
11-E91-9028	M8-1.0mm pitch Hex Thin Nut (RH)
11-E91-9029	M8-1.0mm pitch Hex Thin Nut (LH)
811054	Wash Flt 1/4 Zinc
811641	M6 x 50mm SHCS
808596	3/8" Shaft Coller w/set screw
812834	8-32 NC x 3/8 Screw

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111009081	Pivot Fastener set (for Adj. Sindle Housing)
	BEARINGS
11-E92-9001	1604 DC Radial Ball Bearing
	STRUCTURAL
110005	Motor Mount
110006	Side Plate - Right
110007	Side Plate - Left
110008	Dust Plate
110009	Base Plate
110010	Back Cover
110011	Spindle Channel
110012	Spindle Housing - Fixed <i>(Part only - Drop in replacement see Assemblies)</i>
110013	Spindle Housing - Adjustable <i>(Part only - Drop in replacement see Assemblies)</i>
110014	Drive Shaft Bracket <i>(Part only - Drop in replacement see Assemblies)</i>
111000	Spindle Channel Machined
11-E100-9057	Rubber Foot Replacement Package (w/ metric fasteners)
	ELECTRICAL
11-E94-9011	Ring Terminal (crimp-on Ground Ring)
11-E94-9012	Crimp On Connector
11-E94-9015	Cable Ties
11-E94-9017	0.25 Female Disconnect
11-E94-9033	Power Inlet (.25" terminal)
11-E94-9034	Power Switch (SPST with I/O marking)
11-E94-9037	Cordset, NEMA 5/15P-IEC-320 C13, 18/3 SJT, Blk, 60C, 7'
111009082	Motor Replacement (w/ connectors)
111009083	Cable Clamp (w/ screw)
111009084	Ground Wire Replacement package

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	SHAFTING
110015	Wheel Adjustment Shaft
110016	Pivot Nut
110021	Drive Shaft <i>(Shaft only - Drop in replacement: 111009074)</i>
	GUARDING
111009085	Grind Wheel Guard Replacement Package
	GRINDING WHEELS / ACCESSORIES
11-E100-9013	Sharpening Wheel Replacement (2x100 GR. Wh.)
11-E100-9014	Honing Wheel Replacement (2x220 GR. Wh.)
11-E100-9012	Thinning Wheel Replacements (2x46 GR. Wh., 2 Blot., 1 Spac)
11-E97-9005	Dresser Wheel
11-E97-9006	24S Truing Stick
110023	Grind Wheel Flange - 3/8"
110024	Grind Wheel Flange - M8
	LABELING/MANUALS
110025	X-tra EDGE Front Label
110026	Wheel Guard Label
110028	CSA Operator's Manual
110029	CE Operator's Manual
808620	Electric Hazard Symbol
11-E98-9009	Protective Earth (Ground)
	ASSEMBLIES
111009070	Spindle Housing Assembly L.H. Adjustable
111009071	Spindle Housing Assembly R.H. Adjustable
111009072	Spindle Housing Assembly L.H. Fixed
111009073	Spindle Housing Assembly R.H. Fixed
111009074	Drive Shaft Assembly

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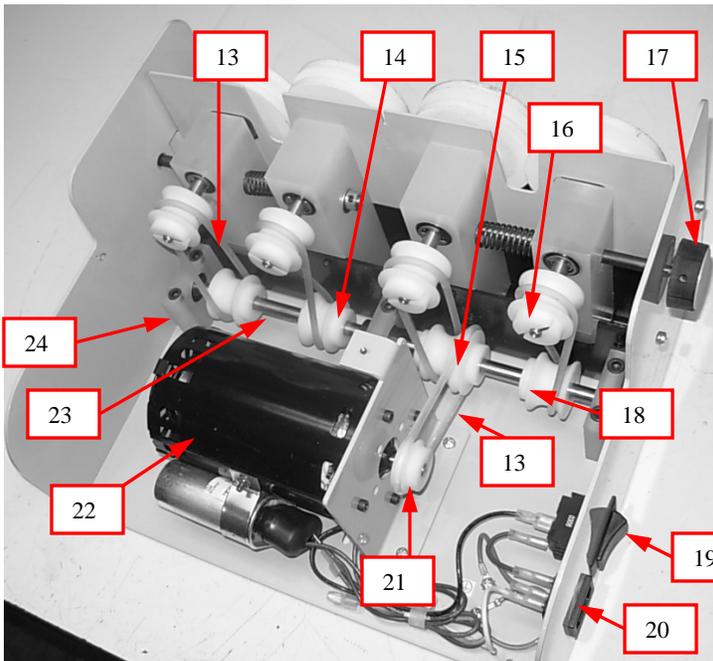
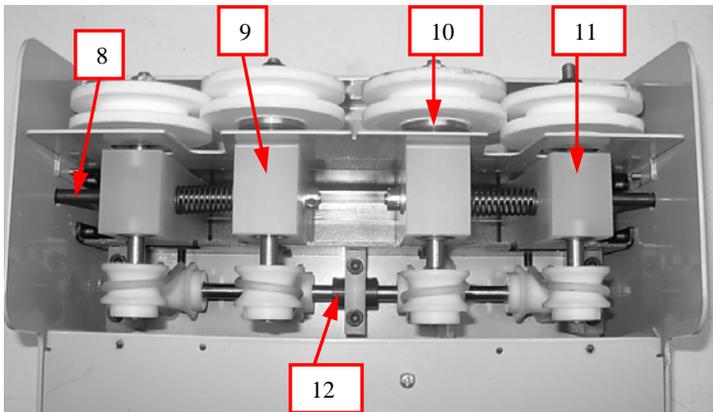
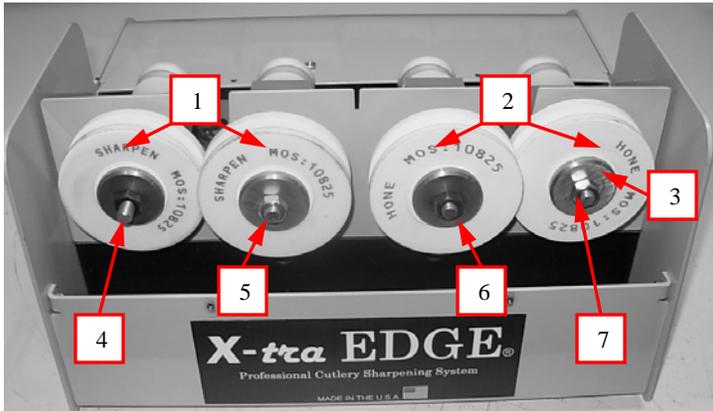
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8.1 PARTS OF MACHINE



1. Sharpening Wheels
2. Honing Wheels
3. Grind Wheel Flange -M8
4. Grind Shaft Adjustable - Right Hand
5. Grind Shaft Fixed - Left Hand
6. Grind Shaft Fixed - Right Hand
7. Grind Shaft Adjustable - Left Hand
8. Adjustment Shaft
9. Fixed Spindle Housing
10. Grind Wheel Flange -3/8"
11. Adjustable Spindle Housing
12. 3/8" Shaft Collar
13. Urethane Belt
14. Output Drive Pulley - Fixed
15. Input Drive Pulley
16. Grind Shaft Pulley
17. Adjustment Knob
18. Output Drive Pulley - Adjustable
19. Power Switch
20. Power Inlet
21. Motor Pulley
22. Motor
23. Drive Shaft
24. Drive Shaft Bracket