EASTMAN® Air BRUTE Model 627XP



Instruction Manual and Parts List

Air Brute Model 627XP	
Serial #	

MARNING

This machine is equipped with a very sharp knife. Keep hands, arms, and hair away from the knife area at all times.

Misuse of this machine or failure to follow all safety instructions on this machine and in the instruction manual may result in serious personal injuries.



Limited Warranty. Eastman warrants to the buyer that the Air Brute shall be free from defects in materials or workmanship for a period of 180 days commencing on the date of invoice. Any goods or parts claimed by the buyer to be defective must be returned to Eastman, freight charges prepaid, within the 180—day warranty period. If Eastman determines that the goods or parts are defective in materials or workmanship, Eastman's sole obligation under this warranty shall be, at Eastman's sole option, to repair or replace the defective goods or parts or to provide to the buyer a credit equal to the portion of the purchase price allocable to the defective goods or parts. This warranty shall not apply if defects are caused by product misuse or neglect, if the machine has been altered or modified by the buyer, or if other than genuine Eastman belts, emery wheels, knives or parts are used in the machine. THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THIS PURCHASE. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Limitation of Liability. Eastman's liability to the buyer, and the buyer's remedies from Eastman, whether in contract, negligence, tort, under any warranty or otherwise, shall be limited to the remedies provided in the foregoing Limited Warranty. In no event shall Eastman have any responsibility or liability to the buyer for (a) any special, indirect, incidental, or consequential damages, including, but not limited to, loss of use, revenue, or profit, even if Eastman has been advised of the possibility of such damages, or (b) any claim against the buyer by any third party. The price stated for the product sold is a consideration for limiting Eastman's liability.

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IMPORTANT

This manual contains instructions and part numbers for the Air Brute Model 627XP. If you contact Eastman Machine Company for information or to order parts, always specify the machine name and model number.

Patents Statement

Some parts of this manual and the equipment it describes are protected by the following U.S. patents: 5,178,232, 4,609,244, 5,111,582, 4,761,878, and D281,416. Other patents pending.

Trademarks Statement

The names Eastman, Air Brute, Uni-Safe, Blue Streak, and Bevel Bloc are registered trademarks of the Eastman Machine Company.



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Safety Information

Throughout this manual, safety information is presented by use of the terms *Warning, Caution,* and *Note.* These terms have the following meanings:

MARNING

A warning contains critical information regarding potential safety hazards that can occur during proper use or misuse of the machine. Failure to follow these procedures may result in serious personal injury to the user.

A CAUTION

A caution contains instructions for the use or maintenance of the machine. Failure to follow these procedures may result in damage to the machine.

Safety and Indemnification

During the life of the machine, the purchaser agrees to provide to all machine users (including its own employees and independent contractors) all relevant safety information, including warning labels and instruction manuals. The purchaser also agrees to maintain the safety features and working condition of the machine, and to adequately train all users in the safe use and maintenance of the machine. The purchaser agrees to defend, protect, indemnify, and hold Eastman Machine Company harmless from and against all claims, losses, expenses, damages, and liabilities to the extent that they have been caused by the purchaser's failure to comply with the terms and instructions of this manual.

General Safety Precautions

WARNING

- This machine is equipped with a very sharp and dangerous knife. Keep hands, arms, and hair away from the knife area at all times. When the machine is not in use, keep the pressure foot knife guard lowered and locked at all times. Safety gloves and glasses and appropriate clothing may prevent serious personal injuries.
- Disconnect the air supply from the machine when it is not in use or during routine maintenance, including lubrication.
- The purchaser must instruct all operators in the proper use of the machine according to the instructions on the machine and in this manual. This training must include instruction on the potential safety hazards arising from the use or misuse of the machine. In addition to such training, the purchaser should provide written work instructions as necessary to ensure correct use of the machine for specific cutting applications.

- The purchaser must provide appropriate safety measures and equipment as recommended in this manual.
 Observe all statutory requirements concerning the use of hazardous machinery that apply to your location.
- Do not modify this machine or disable safety features. Unauthorized modification may result in serious personal injuries to the user.
- This machine is intended ONLY for hand-held operation. Misuse of this machine or use of this machine as part of another machine may result in serious personal injuries to the user.
- Safety labels must be kept clean and legible at all times. Call the Eastman Machine factory to order replacement labels.



Operation

Before operating the machine, read these instructions carefully. Familiarize yourself with all the functions and adjustments of the machine.



Figure 1. Operating Features

Initial Set Up

After the machine has been installed and before you use it for the first time:

 Check that the air supply pressure that the machine is connected to is the same as stamped on its name plate. Install a moisture trap and filter in the air supply before the connection to the motor. Installing an automatic air line lubricator in your air supply is highly recommended.. It should be installed 18" or as close as possible in the air line just ahead of the motor. Adjust the lubricator to feed one drop of oil for every 50-75 CFM of air moving thorough the motor.

↑ CAUTION

Operating this machine from an incorrect air supply may result in damage to your machine.

2. Check that the machine has been lubricated according to the schedule listed in *Routine Maintenance–Lubrication* on page 5.

Note: At this time, carry out the full monthly lubrication schedule on page 5.

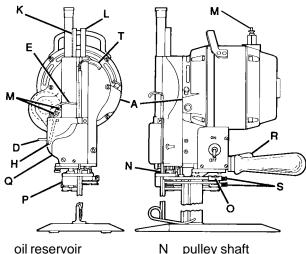
- 3. Make sure that the sharpener is in the locked position. To do this, push in the turning knob (Figure 2, F). While depressing the turning knob, turn the machine over a few revolutions by hand to see if the knife reciprocates easily. If the knife does not move easily, the sharpener may be in the unlocked position.
- 4. To lock the sharpener in place, lift the release lever (Figure 2, D) and press the sharpener lever (Figure 2, E) to release the sharpener. Raise the sharpener bracket (Figure 2, S) by hand to lock it in place. Once the sharpener is locked in place, you may disengage the release lever and sharpener lever. Repeat step 3 to ensure that the sharpener is now locked. If not, repeat this step.
- 5. Visually inspect the blade to ensure that the top of the knife is flush with the knife lockbolt (Figure 7, 1 on page 9) and that the knife is perpendicular to the baseplate. If you need to adjust the alignment of the blade, see section *Changing the Knife* on page 9.
- 6. Check that the motor switch is in the OFF position. Then connect the air supply to the quick disconnect chuck on the machine.
- 7. Hold the operating handle and turn on the machine. Allow the blade to reach full speed. If the blade is struggling, the sharpener is still not in the locked position. If this is the case, turn off the machine and do the following:
 - 7.1 With your left hand, straddle the front of the sharpener with fingers and thumb.
 - 7.2 Press the bell crank release lever (Figure 2, H) to disengage the sharpener mechanism from the motor.

7.3 With your right hand, hold the operating handle and turn on the motor switch. Allow the motor to gather full speed and then release the release lever. This automatically returns the sharpener to the locked position.



Turn the motor on and off a few times before running the machine continuously. This permits the oil to warm up and flow easily into the close-fitting moving parts. Failure to do this may result in damage to your machine.

The machine is now ready for use.



Α oil reservoir Ν D release lever 0 Ε sharpener lever F turning knob Н bell crank release lever Κ tube L tube

M oil

- belt pulley plug Q cover
 - pressure foot lever sharpener bracket
 - knife guard/pressure foot lifting handle

Figure 2. Controls and Adjustments

Operating Procedure

Safety Considerations

↑ WARNING

To prevent serious injury, read and follow these safety precautions.

Before starting or using your machine:

- 1. Check that you know and understand the following:
 - That proper air pressure is supplied to machine.
 - · How to turn off the machine in an emergency.
 - The meaning of all warning labels on the machine.
 - What happens to the machine when you operate the
 - Proper start-up procedures described in Initial Set Up section.
 - What to do in the event of a jam or other unforeseen situation.
 - How to disconnect air supply from the machine.

If you are not familiar with any of these points, ask your supervisor or contact an Eastman representative.

- 2. Check the condition of your machine and working area. Make sure that:
 - There is no visible damage to the machine. Pay particular attention to the blade.
 - No maintenance work is currently being performed in 5 your working area.
 - No unnecessary people are in your working area.
 - · Your working area is clear of debris, spilled liquids, food, drink, or other obstructions.
 - · Your clothing, hair, and jewelry cannot snag or become tangled in the machine. Wear appropriate protective equipment as necessary. Remove all rings, watches, neckties, and other loose objects. Tie up hair or wear a hair net.

If you are uncertain about any of these points, do NOT use the machine.



WARNING

Failure to use all recommended safety measures and equipment may result in serious personal injury.



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Starting the Machine

If you have had the machine less than one month or if it has stood idle for any length of time, turn the motor on and off a few times before running it continuously. This permits the oil to warm up and flow easily into the close-fitting moving parts.

A CAUTION

Failure to warm up your machine adequately may damage the motor.

Making a Cut

WARNING

Failure to keep hands, arms, and hair away from the knife area at all times may result in serious personal injury.

- 1. Bring the machine up to the material spread.
- Raise the knife guard/pressure foot by depressing the pressure foot lever (Figure 2, R) and lifting the knife guard/pressure foot lifting handle (Figure 2, T). Raise the pressure foot only enough to clear the material being cut.
- 3. Turn on the machine, allow the blade to reach full speed, and enter the fabric.
- 4. Using the pressure foot lever (Figure 2, R) and the knife guard/pressure foot lifting handle (Figure 2, T), lower the pressure foot so that it is slightly above the material being cut. This will prevent the material from reciprocating.
- 5. Begin cutting.
- When you are not making a cut, or when the machine is not in use, keep the knife guard/pressure foot lowered to the baseplate by depressing the pressure foot lever (Figure 2, R).
- 7. Turn off the machine when not cutting fabric.

Turning Off the Machine

When you have finished using your machine:

- Position the power switch to off.
- 2. Make sure the knife guard/pressure foot is lowered to the baseplate by depressing the pressure foot lever (Figure 2, R).
- 3. Disconnect the air line from the quick disconnect chuck.
- 4. In cold weather, ensure that the machine is kept in a warm place when not in use.

Routine Maintenance

⚠ WARNING

Always unplug the machine before performing maintenance, adjustments, or repairs.

MARNING

After servicing the machine, always make sure the plate bolt nut is securely fastened (Figure 3, X on page 6) before resuming cutting operation.

Care of the Machine

To ensure proper operation of your machine, carry out the following procedures at the intervals indicated. If you use your machine intensively, consider performing these procedures more often.

Daily

Remove the knife and clean the knife slides with the slot cleaner (Figure 7, 2 on page 9) included with machine. To prevent undue accumulation of lint, do NOT oil the plate rollers. If the rollers stick, remove them from the plate and wash them in cleaning solvent.

Twice Weekly

Use an approved air hose or bellows to blow any lint from around the motor and sharpener.

WARNING

Failure to wear eye protection when using air hose or bellows may result in serious eye or facial injuries.

Weekly

Remove the cover (Figure 2, Q) and clean any lint from around the screw mechanism in the sharpener.

Lubrication

Lubricate your machine according to the following schedule:

CAUTION

Use only specially compounded Eastman 30-weight, nondetergent oil. Use of sewing machine oil or detergent oil may result in damage to your machine. Do not oil the baseplate rollers. Use of an excessive amount of oil may damage the machine.

Daily

- 1. Place two drops of oil at each of the three locations shown in Figure 2, M. Use an oil can with a small spout. (A suitable oil can is furnished with the machine.)
- Fill the oil reservoir (Figure 2, A) for continuous use. If you only use the machine intermittently, you can use less oil.

Weekly

- 1. Carry out the *Daily* lubrication schedule above.
- Apply one drop of oil only to each of the following:
 - Tubes at locations shown as Figure 2, K and L.
 - Pulley shaft shown as Figure 2, N.
 - Belt pulley shown as Figure 2, O.

Monthly

1. Carry out the *Daily* and *Weekly* lubrication schedules above.

2. Remove the plug (Figure 2, P) and insert a grease tube. Squeeze an amount of grease approximately the size of a pea into the opening.

MARNING

Routinely check the tightness of the operating handle to ensure a secure connection.

Sharpening the Knife

Sharpen the knife at frequent intervals or whenever you feel it is not cutting adequately:

- 1. Take the machine out of the lay.
- 2. Drop the knife guard/pressure foot using the pressure foot lever (Figure 2, R on page 3), located next to the machine operating handle.
- 3. Press the sharpener lever (Figure 2, E) downward with a slow, firm pressure to engage the sharpening mechanism. Too fast a lever action may cause the lever to lock. If this occurs, lift the release lever (Figure 2, D) and start over again.

Removing the Sharpener

- Disconnect the machine from the air source.
- 2. Using the turning knob (Figure 2, F) raise the blade to top position.
- 3. Press the sharpener lever (Figure 3, E on page 6) approximately halfway down and to the neutral position, and lower the sharpener by hand.



This machine is equipped with a very sharp knife. Remove the knife when working in this area. Failure to keep hands, arms, and hair away from the knife area may result in serious personal injury.



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- 4. Remove the back guide (Figure 3).
- 5. Press the lever (Figure 3, E) to a neutral position and raise the sharpener to the top (original) position.
- 6. Remove the four hold-down nuts (Figure 3, V) and remove the sharpener.

Note: If you press the sharpener lever (Figure 3, E) down too far (beyond the neutral position), it will lock the sharpener bracket. If this occurs, lift the release lever (Figure 3, D) and start over again.

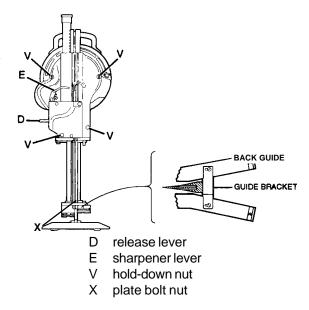
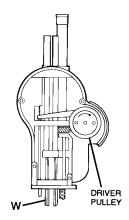


Figure 3. Removing the Sharpener

Replacing the Rubber Driver Pulley

The sharpener is driven by a rubber driver pulley, as shown in Figure 4. Replace this driver pulley whenever it appears to be worn or damaged, as follows:

- 1. Remove the sharpener from the machine (see *Removing the Sharpener* on page 5).
- 2. Press the sharpener lever (Figure 3, E) to a neutral position and lower the sharpener until an inch of the square shaft (Figure 4, W) is exposed.



W square shaft

Figure 4. Replacing the Rubber Driver Pulley

- Hold the square shaft with a wrench. Position the wrench as close as possible on the shaft to the sharpener housing.
- 4. Use a spanner wrench to remove the driver pulley by turning it clockwise as indicated by the arrow in Figure

Note: The pulley has a left-hand thread.

- 5. Reassemble the new pulley on the sharpener.
- 6. Reassemble the sharpener on the machine.

Adjusting the Belt Sharpener

Note: You can obtain all the special tools you will require for adjusting the sharpener by ordering tool kit #820C2.

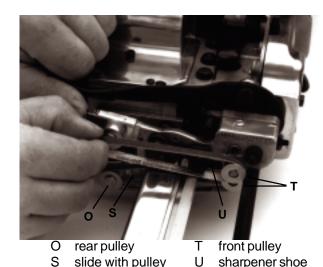


Figure 5. Changing the Sharpener Belts

WARNING

Failure to disconnect the air supply source before performing maintenance may result in serious personal injury.

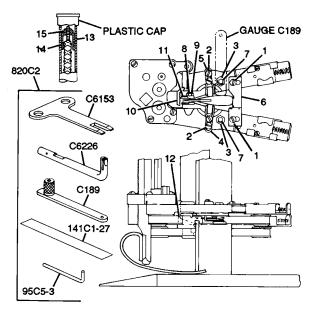
Changing Sharpener Belts

- 1. Push the slide with pulley (Figure 5, S) inward to relieve tension, then remove the worn belt.
- 2. Place the new belt over the front pulley (Figure 5, T), then between the sharpener shoe (Figure 5, U), and then over the rear pulley (Figure 5, O).
- 3. Release the slide with pulley.

Note: Sharpener belts are available in four grits: Rough, Coarse, Medium, and Fine. See *Abrasive Belt Grits* on pages 17-18 for ordering information.

Adjusting Stabilizers for Central Alignment

- 1. Disconnect the air supply, if you have not already done this.
- Depress the sharpener lever (Figure 2, E on page 3) halfway and lower the belt carrier to the extreme bottom position.
- 3. Loosen the screws (Figure 6, 1) and disengage the back guide (Figure 6, 6) from contact with the standard.
- 4. Loosen the screws (Figure 6, 2) and disengage the stabilizers (Figure 6, 4 and 5).



1 9 locknut screw 2 10 clamping arm screw 3 locknut 11 sharpener shoe 4 stabilizer 12 shoe 5 stabilizer 13 tube back guide 14 spacer 7 pivot screw 15 locknut

Figure 6. Adjusting the Stabilizers

stop screw



- 5. Remove the locknut (Figure 6, 3).
- 6. Install gauge C189 on the exposed threaded end of the pivot screw (Figure 6, 7) and press the end of the gauge against the side of the standard.
- 7. Holding this position, engage the opposite stabilizer (Figure 6, 4) firmly against the side of the standard and tighten the screws (Figure 6, 2).
- Remove tool C189 and press the positioned stabilizer (Figure 6, 4) against the side of the standard. Then fasten the opposite stabilizer (Figure 6, 5) firmly against the standard.
- 9. Re-engage the back guide (Figure 6, 6) in loose contact with the back of the standard.

Checking the Sharpener Shoes

The shoes should swing in and out freely without excessive up and down play. If adjustment is necessary, proceed as follows:

- 1. Loosen the locknuts (Figure 6, 3) and tighten the screws (Figure 6, 7) as required.
- 2. Check the clamping arm (Figure 6, 10) with the belt carrier in the most downward position and the knife in the most upward position. The clamping arm should keep the sharpener shoe from moving in. If it fails to do so, the serrations on the clamping arm are worn or the sharpener shoe (Figure 6, 11) is worn.
- Replace worn part(s) as necessary.

Checking the Extreme Down Position of the Sharpener

The correct down position is with the tip of the knife at the center of the belt on the shoe (Figure 6, 12). The belt should be in the most downward position, and the knife should be in the most upward position. If the belts are too high, the bottom point of the knife will not sharpen. If the belts are too low, the bottom point of the knife will round off excessively. If adjustment is necessary:

- 1. Raise the belt carrier to the up position.
- Remove the plastic cap from the tube for the screw shaft.

3. Insert a pin through the hole in the tube (Figure 6, 13) to prevent the spacer (Figure 6, 14) from turning. Then remove the locknut (Figure 6, 15).

The following step describes the correct procedure for setting spacer adjustment on different stroke machines:

Note: Prior to beginning adjustment, be sure that the spacer is threaded fully onto screw shaft.

Stroke	Turns
1-1/8"	11
1-1/4"	9
1-1/2"	13
1-3/4"	8
Note: Each to	urn = 1/32"

4. Turn the spacer clockwise with wrench C6153 to raise the bottom position, or turn counter-clockwise to lower the position.

Note: One turn in either direction adjusts the position by 1/32".

- 5. When the spacer is adjusted, use the pin to hold the spacer in position, reassemble, and tighten the locknut (Figure 6, 15).
- 6. Replace the plastic cap.

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MARNING

Always handle knives with care. Safely dispose of used knives.

R Z Z Z Z

- 1 knife lockbolt2 slot cleaner
- E lever
- R pressure foot leverX pressure foot
- Y T-handle knife bolt wrench
- Z standard

Figure 7. Changing the Knife

Checking the Stop Screw on the Sharpener Shoe

- With new belts on the carrier, insert .010 feeler gauge #141C1-27 between the stop screw (Figure 6, 8) and the knife. Ensure that the clamping arm (Figure 6, 10) has been released from the sharpener shoe (Figure 6, 11). The gauge should just fill the space between the screw and the knife.
- 2. If an adjustment is necessary, loosen the locknut (Figure 6, 9). Adjust the set screw to the proper spacing, and re-tighten the locknut.

Check the Width of the Bevel on the Knife

The bevel should be approximately 1/16" on both sides. If it is not:

- 1. Install a new knife and new belts.
- 2. Color the bevel with a wax pencil.
- 3. Run the sharpener up and down the knife several times.
- If an adjustment is required for Flex-Pad shoes, insert tool C6226 over the belt guide pad. Move the free end of the tool to the rear to increase the bevel, or to the front to decrease bevel.

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Changing the Knife (continued)

WARNING

Disconnect the air supply.

- 1. Make sure the sharpener is in the locked position.
- Raise the pressure foot (Figure 7, X on page 9) to the top
 position using the pressure foot lever (Figure 7, R),
 which is located next to the machine operating handle.
- 3. Lay the machine on a table, as shown in Figure 7.
- 4. Press in the turning knob (Figure 2, F on page 3) and turn the knife to the bottom position.
- 5. Insert the T-handle knife bolt wrench (Figure 7, Y) and loosen the knife lockbolt (Figure 7, 1).
- 6. Remove the knife through the bottom of the standard (Figure 7, Z).
- 7. After removing the knife, clean the knife slot in the standard with the slot cleaner (Figure 7, 2).
- 8. Insert a new knife in the knife slot. Be sure to set the knife tightly against the knife lockbolt. Hold the bottom of the knife against the back of the slot in the standard and tighten the knife lockbolt.

- After tightening the knife lockbolt, check to see if the knife runs freely in the standard by rotating the turning knob.
- 10. Install new sharpener belts and operate the sharpener three or four times before starting to cut.

Note: For best results, use only Eastman knives. The limited warranty covering your machine is not valid if you use knives other than those manufactured by Eastman. The available knives and accessories are shown in Figure 8 and in the selection charts on the next page.

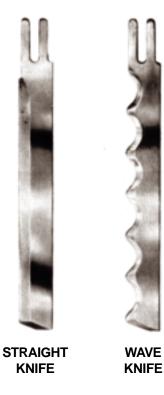


Figure 8. Available Eastman Knife Types

WAVE KNIVES REQUIRE SPECIAL SHOES AND RELATED PARTS LISTED BELOW

743C1-27	L.H. Shoe	743C1-26	R.H. Shoe
34C10-47	L.H. Spring	34C10-57	R.H. Spring
20C12-57	Screw	20C12-57	Screw
	(for shoe)		(for shoe)

WHEN USING THESE SPECIAL SHOES, THE FOLLOWING PARTS MUST BE REMOVED FROM THE LOWER GEAR **BRACKET**

35C7-28	Clamping Arm	See page 29
34C10-123	Spring	
20C12-143	Screw	

See page 31 for slow speed drive note.

STRAIGHT KNIFE SELECTION CHART

	CARBO	NSTEEL				HIGH-SPEED	OSTEEL		SPECIAL PROCESS	
KNIFE SIZE	STRAIGHT FRONT	SAW TOOTH	WAVE EDGE	STRAIGHT FRONT	ROUND TIP	ANGLE TIP	SAW TOOTH	WAVE EDGE	STRAIGHT FRONT	2
4 5 6 7 8	80C4 80C5 80C6 80C7 80C8	80C4-14 80C5-14 80C6-14 80C7-14 80C8-14	80C4-19 80C5-19 80C6-19 80C7-19 80C8-19	80C4HS 80C5HS 80C6HS 80C7HS 80C8HS	80C5HS-R 80C6HS-R 80C7HS-R 80C8HS-R	80C5-36HS 80C6-36HS 80C7-36HS 80C8-36HS	80C4-14HS 80C5-14HS 80C6-14HS	80C4-19HS 80C5-19HS 80C6-19HS 80C7-19HS 80C8-19HS	80C5SP 80C6SP 80C7SP 80C8SP	nd Needle Co
										: Diamond

80C6-47HS 80C7-47HS 6" High-Speed Wave Special Grooved Knives for Micro Fog Machine 7" High-Speed Wave Special Grooved Knives for Micro Fog Machine

Teflon-coated knives available. Order by adding "T" to end of knife order.

Adjusting Bevel Bloc® Shoes

Eastman's exclusive, patented adjustable Bevel Bloc sharpener shoes make it possible to grind any desired bevel on the knife edge. The knife-edge bevel on your new machine is factory set to handle all normal fabrics and normally should not be changed. The preset measurement is 1/16" wide.

(Continued on next page.)



Figure 9. Adjusting Bevel Bloc Shoes



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Adjusting Bevel Bloc® Shoes (continued)

If you need to adjust the bevel on the knife edge to a different length, proceed as follows:

- 1. Disconnect the machine from the power source.
- 2. Lower the knife to the bottom of the stroke with the machine turning knob (Figure 2, F on page 3).
- 3. Lower the sharpener manually, by holding the sharpener lever (Figure 2, E) halfway down to its neutral position.
- 4. Pull the sharpener belt down to expose the set screw (Figure 9 on page 11) on the Bevel Bloc.
- 5. Insert Allen wrench 95C5-5 into the set screw and loosen it slightly.
- For a longer bevel on the knife edge, move the key and bloc to the rear. For a shorter bevel, move them to the front.
- 7. Re-tighten the set screw.
- 8. Adjust the Bevel Blocs on both shoes.
- 9. Return the sharpener to the top (locked) position.
- 10. Check the stop screws on the sharpener shoes for correct setting, as described in *Checking the Stop Screw on the Sharpener Shoe* on page 9.
- 11. Color-mark the front sides of the knife edge with marking ink or a wax pencil. Reconnect and turn on power. Then move the sharpener down and up several times.
- Check the bevel on both sides of the knife. Readjust if necessary.

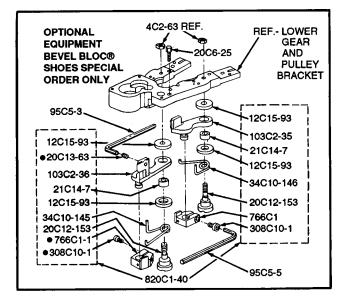


Figure 10. Bevel Bloc Shoe Assembly

SUBASSEMBLY 743C3-1 INCLUDES:		
20C13-63	Screw, Set	
103C2-36	Shoe, Sharpener L.H.	
766C1-1	Bevel Bloc Assembly L.H.	
308C10-1	Screw, Socket 6/32" x 5/16" (2 required)	

PART NO.	DESCRIPTION
4C2-63 715C1-16 715C1-18 820C1-40	L.H. Nut (2 required) Lower Gear Bracket Complete 5"-10" Knife Lwr. Gear Bracket Com. 11 1/2"-13" Knife Conversion Kit R.H. & L.H. Shoes

INCLUDES THE FOLLOWING:

12C15-93	Washer Shoe (4 required)
20C6-25*	Screw Adjust
20C12-153	Screw, Sharpener Shoe (2 required)
20C13-63	Screw, Set
21C14-7	Bushing, Shoe (2 required)
34C10-145	Spring Shoe L.H.
34C10-146	Spring Shoe R.H.
95C5-3	Wrench, Allen
95C5-5*	Wrench, Allen
103C2-35	Shoe, Sharpener R.H.
103C2-36	Shoe, Sharpener L.H.
308C10-1*	Screw, Socket 6/32" x 5/16" (2 required)
766C1*	Bevel Block Assembly R.H.
766C1-1*	Bevel Block Assembly L.H.
820C1-39	Conversion Kit includes * parts above.

Note: 766C1 and 766C1-1 are sold in pairs with kits only.

SUBASSEMBLY 743C3 INCLUDES:

103C2-35	Shoe, Sharpener R.H.
766C1	Bevel Block Assembly R.H.
308C10-1	Screw, Socket 6/32" x 5/16" (2 required)

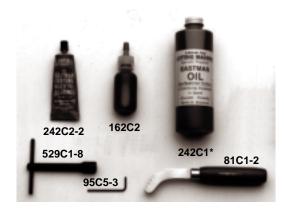


Figure 11. Maintenance Supplies for Bevel Bloc Shoes

Maintenance Supplies

PART NO.	DESCRIPTION
529C1-8 95C5-3	Knife Bolt Wrench Allen Wrench for Shoe Set Screws
242C2-2 162C2	Eastman Bearing Grease Oil Can
242C1* 81C1-2	1/2 Pint Eastman Oil Slot Cleaner

*Optional

Eastman[®]
MANUAL CUTTING PRODUCTS

Troubleshooting

PROBLEM	SOLUTION
Machine does not start	a. Dirt or foreign material present, inspect and clean b. Motor is jammed. Disassemble and clean
Motor slow to attain top speed	 a. Sharpener is engaged b. Dirt or foreign material present c. Low air pressure d. Low air flow e. Restricted exhaust. Inspect and repair
Bottom corner of blade breaks	a. Knife slides badly worn b. Knife strikes throat plate.
Motor slows in a certain position	 a. Crosshead and guides tight b. Standard not in alignment with crosshead c. Standard bent d. Restricted exhaust. Inspect and repair
Machine does not move easily on table	a. Surface of cutting table not smooth b. Rubber mounted rollers compressed causing baseplate to drag on table
No bevel on one side of blade	a. Broken torsion spring b. Band plates do not pivot freely
Sharpener belt cut off by blade	a. Refer to page 8, Checking the Extreme Down Position of the Sharpener

PROBLEM	SOLUTION
Pressure foot rod does not hold	 a. Lock loose on shaft b. Pressure foot handle spring broken c. Teeth worn on lock d. Screw loose
Sharpener runs slowly	 a. Oil on crank b. Stabilizer assembly too tight against standard c. Worn pulley d. Worn screw shaft e. Add grease to lower gear bracket
Bevel very wide on both sides of blade Machine does not move easily on table	 a. Worn sharpener shoes a. Surface of cutting table not smooth b. Rubber mounted rollers compressed causing baseplate to drag on table
Pressure foot rod does not move freely	a. Dirt in pressure foot lock bracket
Pressure foot rod does not hold	a. Lock loose on shaftb. Pressure foot handle spring brokenc. Teeth worn on lockd. Screw loose

Freeing Frozen Guides

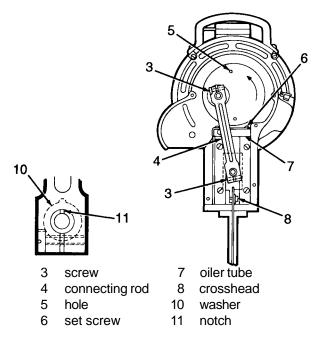


Figure 13. Freeing Frozen Guides

To free frozen guides, proceed as follows:

- 1. Remove the machine from the air supply.
- 2. Remove the sharpener from the machine, see *Removing* the Sharpener on page 5.
- 3. Loosen the screws (Figure 13, 3) and remove the connecting rod (Figure 13, 4).
- 4. Insert the drift pin in the hole (Figure 13, 5) in the crank and tap with a light hammer in the direction of the arrow. This will loosen the crank.
- 5. Remove the crank.
- 6. Loosen the set screw (Figure 13, 6) using a No. 564 Allen key (.078 hex) and remove the oiler tube (Figure 13, 7).
- 7. Remove the crosshead (Figure 13, 8) from the guides.

8. Place a fiber or brass rod against the bottom of the crosshead and drive the crosshead out through the top of the guides.

Note: If the wrist pin is frozen in the crosshead, drive the wrist pin out of the crosshead with a soft punch. Polish the wrist pin and the hole in the crosshead with fine emery cloth.

- 9. Hone any rough spots on the bearing surface of the crosshead against a flat oilstone until smooth.
- 10. Examine the guides. If there is any evidence of a high spot, remove it with a scraper and then clean.
- 11. Oil the bearing surface of the guides, insert the crosshead, and reassemble the machine. Ensure the washer (Figure 13, 10) is in place between the connecting rod and crosshead.

A CAUTION

The wrist pin must be installed with the notch (Figure 13, 11) at top center. If the wrist pin is not installed correctly, the flow of oil to the wrist pin bearing will be cut off.

12. Return air to machine and run the machine for approximately one-half hour, oiling the guides frequently, before putting the machine back into production.

Accessories

Stainless Steel Mesh Gloves

Mesh provides complete freedom of movement and air circulation so hand doesn't sweat. Designed for universal fit, the mesh glove features a uniquely designed snap wrist strap fastener that allows a left hand glove to be easily and quickly reversed to make a right hand glove (gloves are normally configured as left hand).

Features a fully tapered design to fit better without excess material and weight. Seams joining glove parts are interlocked and individually welded for maximum strength.



MARNING

Metal mesh gloves provide protection from minor cuts, but will NOT prevent accidental injury. Even if you wear safety gloves, failure to keep hands, arms, and hair away from the knife area and follow the safety precautions on the machine and in this manual may result in serious personal injuries.

WARNING

Do not use metal mesh gloves with a round knife blade cutting machine. The circular motion of the knife could pull the glove towards the blade.

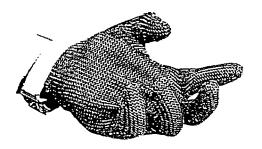




Figure 14. Available Metal Mesh Glove Styles

Ordering Details

All gloves are available with three or five fingers.

Note: All gloves are shipped with left hand configuration. For a right hand configuration reverse the wrist snap fastener.

Ordering Reference Description		
Left-Hand	(see note for Right-Handed)	
GU300 XS	3 Finger, extra small, Snap-Buckle	
GU300 S	3 Finger, small, Snap-Buckle	
GU300 M	3 Finger, medium, Snap-Buckle	
GU300 L	3 Finger, large, Snap-Buckle	
GU300 XL	3 Finger, extra large, Snap-Buckle	
GU500 XS	5 Finger, extra small, Snap-Buckle	
GU500 S	5 Finger, small, Snap-Buckle	
GU500 M	5 Finger, medium, Snap-Buckle	
GU500 L	5 Finger, large, Snap-Buckle	
GU500 XL	5 Finger, extra large, Snap-Buckle	

Genuine Eastman Abrasive Belts

Eastman's four abrasive belt grits offer an edge for every fabric. For increased cutting efficiency, Eastman offers four different edges as produced by four different abrasive belts. These belt grits are available in convenient, color-coded boxes for easy identification.



Figure 15. Eastman Abrasive Belts

The 250X microphotographs (Figure 16) show four different edges, as produced by Eastman's four abrasive belt grits.

FINE BELT **FINE EDGE**

Slices thru synthetics and blends, for knitted or loosely woven cloths, and for silks, high-pile fabrics, quilting, etc. **BLUE** 181C2-5

MEDIUM BELT **MEDIUM EDGE**

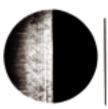
Shears thru the general run of rayons, cottons, light woolens, tropicals, suitings, and similar materials **GREEN** 181C2-2

COARSE BELT COARSE EDGE

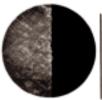
For heavier weight variations of the "medium" materials at left, and for lightly woven cloths, pocketing, light denims, over-coatings, light leatherette, and rubberized fabrics RED 181C2-1

ROUGH BELT ROUGH EDGE

The edge that practically SAWS thru heavy denim, coated fabrics, treated canvas, simulated heavier leathers, etc. where the going gets tough! BLACK 181C2-6









SPECIAL PERFORMANCE BELTS: Electrostatically Coated

FINE BELT	MEDIUM BELT	COARSE BELT
BLUE	GREEN	RED
181C2-5SP	181C2-2SP	181C2-1SP

Figure 16. Edges Produced by Different Belt Grits

Ergo-Handle

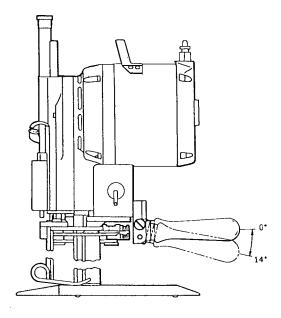


Figure 17. Ergo-Handle

FINE BELT MEDIUM BELT COARSE BELT

BLUE GREEN RED

181C2-5SP 181C2-2SP 181C2-1SP

Figure 16. Edges Produced by Different Belt Grits

Available as an option on new machines or for retrofitting to any existing Eastman straight knife, the Ergo-Handle allows the operator to adjust the handle downward from the lows the operator to adjust the handle downward from the standard horizontal through a 14-degree range. Adjusting the handle's angle to suit the operator's preference allows for more effective use of the arm muscles, while placing less strain on the wrist and thumb.

PART NO.	DESCRIPTION
531C1-87	Regular Ergo-Handle
531C1-88	Cushion Ergo-Handle



17 Form C-1591

Specialty Machines

Plastic Master Model 627XP-PM

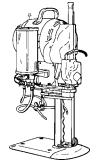
Eastman's Plastic Master has been specifically designed by Eastman's engineering group to eliminate the fusing of synthetic materials such as plastics, PVC, vinyl, and reinforced vinyl. Exclusively formulated Plastic Master Fluid is applied to a special wave blade by articulated arms. Gravity carries the Plastic Master Fluid down the blade and cools as it cuts.

For more information on the Eastman Plastic Master 627XP-PM, call your Eastman authorized dealer or Eastman factory direct.

Micro Fog Model 627XP-MF

Eastman's Micro Fog is designed for the same purpose as the Plastic Master, but is more comprehensive. The exclusive Micro Fog and a 90-120 psi compressed air hose sends a mist of coolant/lubricant behind the knife and out through special slotted wave blades to penetrate every layer of cloth and eliminate the conditions that cause fusing. Micro Fogs are only available with 6" standards, and in 1-1/8 or 1-1/4 stroke only. Special waterproof belts are available for use on this machine. The amount of spray may be regulated through a valve on the device. Note: The Micro Fog coolant mist and air motor must use SEPARATE air lines.

For more information on the Eastman Micro Fog 627XP-MF, call your Eastman authorized dealer or Eastman factory direct.





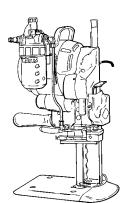


Figure 19. Micro Fog

Illustrated Parts List

Your Eastman Straight Knife has been carefully designed to provide many hours of trouble-free operation. The comprehensive exploded parts illustrations have been carefully prepared to enable you to easily order replacement parts. Replacement parts for this machine may be ordered through

your nearest Eastman Machine Company representative or directly from the Eastman factory.

Note: Please specify the model and serial number of your machine when ordering parts. Always specify class number and serial number when ordering parts for faster, more efficient service.

Exploded Parts Illustrations

The exploded parts illustrations and parts lists in this section have been divided into major assemblies as follows:

Motor Assembly

See pages 20-21

Front Bearing Housing Assembly

See pages 22-23.

Sharpener Housing Assembly

Front view, see pages 24-25. Rear view, see pages 26-27.

Lower Gear Bracket Assembly

See pages 28-29.

Note: Four different abrasive belt grits (designed to provide you with a selection of edges) may be ordered for this machine. See pages 16 and 17 of this manual for more information.

Standard and Baseplate Assembly

See pages 30-31.

Note: Knife slides and standard heights indicated on pages 27 and 28 are based on the length of the knife and do not refer to physical dimensions. Thus, a 6" knife slide accommodates a 6" knife. Ordering information and part numbers for knives may be found on pages 10 and 11.

FASTENERS REQUIRED TO ASSEMBLE MAJOR COMPONENTS

PART NO.	NO. REQ	D DESCRIPTION
4C1-99	3	Sharpener Hold-Down Nut
4C1-150	1	Sharpener Hold-Down Nut
4C1-179	4	Front-to-Rear Bearing Nut
4C2-2	1	Plate Bolt Nut
20C3-40	4	Front-to-Rear Bearing Screw
20C13-96	4	Standard-to-Bearing Screw
24C4	1	Plate Bolt

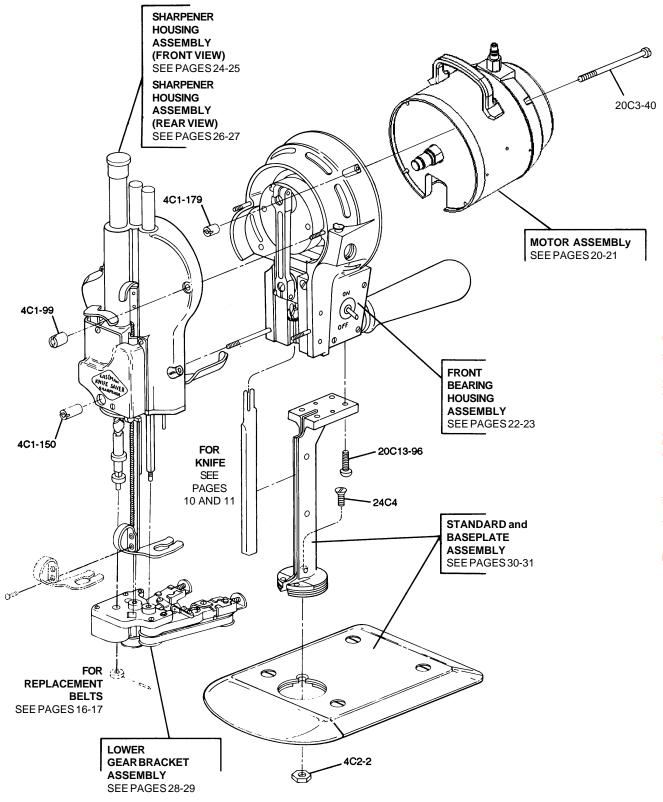


Figure 20. Standard and Baseplate Assembly (Exploded View)



Motor Assembly

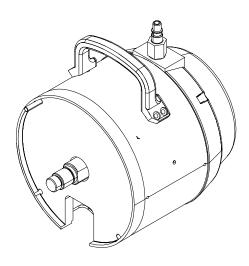
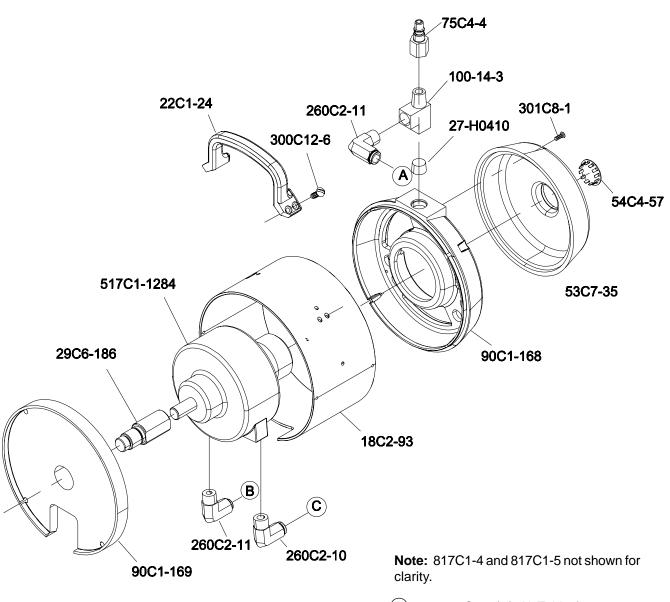


Figure 21. Motor Assembly (Assembled View)

Note: Please specify model and serial number of machine when ordering parts.

Part No.	No. Req'd	Description
18C2-93 22C1-24 29C6-186 46C3-57 53C7-35 54C4-57	1 1 1 1 1	Stator Band Carrying Handle Motor Adaptor Spacer Washer Fan Cover Snap Plug
75C4-4 100-14-3 27-H0410 260C2-10 260C2-11	1 1 1 2	Quick Disconnect Street Tee Plug Elbow Elbow
260C2-12 300C12-6 301C8-1 517C1-1284 589C2-63 706C2-7 817C1-4	2 6 3 1 1 1	Screw, Round Head Screw, 4-40 x 1/2 Fillister Head Air Motor, Hub Mount, 3/4 hp Rear Bearing Housing Muffler with Cover Exhaust Hose, 3/8"
817C1-5	1	Inlet Hose, 5/16"



- (A) 817C1-4 (3/8 Air Tubing)
- B 817C1-5 (5/16 Air Tubing)
- © 817C1-5 (5/16 Air Tubing)

Figure 22. Motor Assembly (Exploded View)



Front Bearing Housing (90C2-162) with Oiler Assembly

Note: Please specify model and serial number of machine when ordering parts.

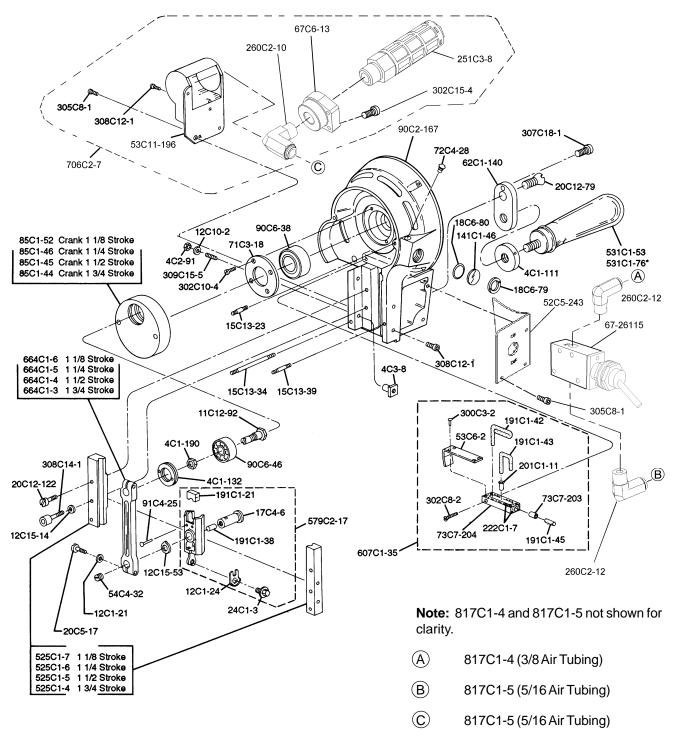
No. Req'd

Part No.

		200011911011
	CLASSETTR	
4C1-111	1	Operating Handle Lock Nut
4C1-132	1	Crank Ball Bearing Lock Nut
4C1-190	1	Lock Nut for Shaft
4C2-91	3	Nut for Guide Screw
4C2-110	1	Stop Nut
4C3-8	3	Guide Adjustment Nut
11C12-92	1	Shaft for Ball Bearing
12C1-21	2	Shakeproof Washer
12C1-24	1	Knife Lock Washer
12C10-2	3	Washer
12C15-14	6	Guide Washer
12C15-53	1	Connecting Rod Washer
15C13-23	2	Stud, Upper
15C13-34	1	Stud, Lower L.H. Mounting
15C13-39	1	Stud, Lower R.H. Mounting
17C4-6	1	Wrist Pin
18C6-79	1	Lock Ring
18C6-80	1	O-Ring
20C5-17	2	Connecting Rod Clamp Screw
20C12-62	1	Front Housing Plug Screw
20C12-79	1	Screw for Handle Bracket
24C1-3 52C5-243	1	Knife Lock Bolt Switch Plate
52C5-243 53C6-2	1	Oiler Tube Cover
53C6-2 53C11-196	1	Muffler Cover
54C4-32	1	Wrist Pin Plug
0 10 1 02		vviist i ii i iug

Description

Part No.	No. Req'd	Description
	OLES STAR	
62C1-140	1	Handle Bracket
67C6-13	1	Muffler Mount
71C3-18	1	Front Ball Bearing Retainer
72C4-28 73C7-203	1 1	Oil Hole Cover Oil Tube, Clear
73C7-203	1	Oil Tube, Clear Oiler Tube
85C1-52	1	Crank-1-1/8 Stroke
85C1-46	1	Crank 1-1/4 Stroke
85C1-45	1	Crank 1-1/2 Stroke
85C1-44	1	Crank 1-3/4 Stroke
90C2-167	1	Front Bearing Housing
90C6-38 90C6-46	1	Front Ball Bearing Seated Crank Ball Bearing
91C4-25	2	Rivet Crosshead
141C1-46	1	Gauge, Clear
191C1-21	1	Cross Head Felt pad
191C1-38	1	Wrist Pin Felt Pad
191C1-42	1	Oil Felt Wicking, Long
191C1-43	1	Oil Felt Wicking, Short
191C1-45 201C1-11	1 1	Oil Felt Wicking, .187 x .44 Eyelet
222C1-7	1	RTV Sealer
300C3-2	4	Screw
302C8-2	1	Screw, Flat Head 4-40 x 3/4
300C10-4	2	Screw, 6-32 x 3/8 Long Round Head
302C10-4	4	Screw, 6-32 x 5/16 Flat Head
305C8-1 302C15-4	7	Screw. 4-40x 1/4 Binding Head Screw, 10-32 x 5/8 Flat Head
307C18-1	1	Screw, 10-32 x 5/6 Flat Head Screw
308C12-1	3	Screw, 8-32 x 3/8 Socket Head
308C14-1	6	Guide Hold Down Screw
309C15-5	3	Guide Adjustment Screw
525C1-4	1	L.H. & R.H. Guides 1-3/4 Stroke
525C1-5	1	L.H. & R.H. Guides 1-1/2 Stroke
525C1-6 525C1-7	1	L.H. & R.H. Guides 1-1/4 Stroke L.H. & R.H. Guides 1-1/8 Stroke
531C1-53	1	Operating Handle
531C1-76*	1 (ea. mach	
579C2-17	1 `	Cross Head (With Wrist Pin, Lock Washer & Bolt)
67-26115	1	Switch
607C1-35	1	Oiling Device
664C1-6 664C1-5	1	Connecting Rod 1-1/8 Stroke Connecting Rod 1-1/4 Stroke
664C1-4	1	Connecting Rod 1-1/2 Stroke
664C1-3	1	Connecting Rod 1-3/4 Stroke
		•



Notes: L.H. indicates left-hand thread. All others are right-hand.

Figure 23. Front Bearing Housing with Oiler Assembly (Exploded View)



Sharpener Housing Assembly (Front View)

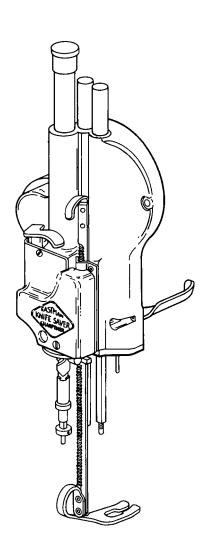


Figure 24. Sharpener Housing Assembly (Assembled, Front View)

Note: Please specify model and serial number of machine when ordering parts.

Part No.	No. Req'd	Description
101 110	٥٧	N 51
4C1-149		Nut, Elastic
4C1-161	1	Nut, Self Lock
4C2-112	1	R.H. Nut for Screw Shaft
4C2-113 5C5-16	1 1	L.H. Nut for Screw Shaft Collar. Lower
11C12-54	1	Shaft for Cam
12C15-57	1	Spring Washer for Release Lever
12C15-57	1	Washer for Lock Bracket
12C15-74	4	Washer, Flat
12C15-91	2	Thrust Washer, Upper Nut
17C15-106	1	Roll Pin for Collar
20C4-17	1	Pressure Foot Lever Screw
20C12-13	1	Cam Shaft Spring Screw
20C12-113	1	Screw for Latch
20C12-117	2	Screw for Pressure Foot Shoe
20C12-156	1	Screw for Release Lever
20C12-137	1	Screw for Knife Guard Lock
22C3-2	1	Lift Handle for Knife Guard Lock
34C1-20	1	Tension Spring
34C8-12	1	Spring for Pressure Foot Lock
34C10-179	1	Spring for Pressure Foot Lever
34C10-107	1	Spring for Latch
53C11-72	1	Cover for Cam
53C11-103 55C4-49	1	Vinyl Cover for Handle Spacer for Knife Guard Lock Bracket
68C1-192	1	Pressure Foot Shoe, All Strokes
71C3-15	3	Thrust Ball Bearing
86C7-34	1	Cap for Tube
90C4-47	1	Bearing for Cam Shaft
97C3-35	1	Latch for Cam
147C126	1	Extension for Screw Shaft
171C1-16	1	Lock (Only) for Pressure Foot
300C10-1	2	Screw, #6-32 x 3/16 Round Head
300C10-4	4	Screw, #6-32 x 3/8 Round Head
302C10-4	1	Screw, #6-32 x 5/16 Flat Head
302C10-8	1	Screw, #6-32 x 3/4 Flat Head
305C15-2	2	Screw, #10-32 x 5/8 Flat Head
309C15-7	1	Set Screw for Cam
553C1-7	1	Pressure Foot Lock Bracket Complete
553C1-8	1 1	Pressure Foot Lock Bracket Only
605C1-36		Pressure Foot Rod 7"-8" Knife
621C1-7 683C1-17	1 1	Release Lever With Cam Pressure FootLever
713C4-4	1	Screw Shaft With Extension.
71304-4		R. & L. Hand Nuts 5"-8"
732C1-11	1	Sharpener Housing (With Bushings
	·	and Tubes) Only 5"-8" Knife



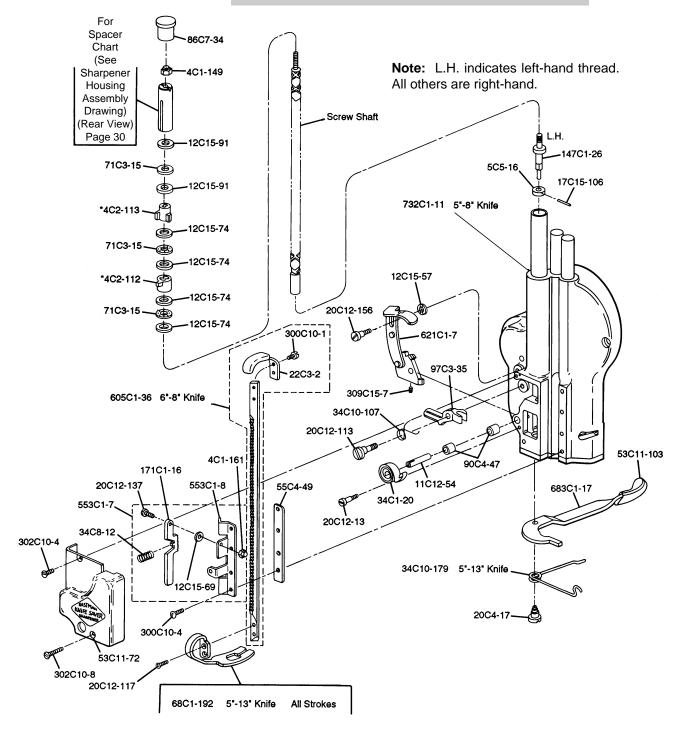


Figure 25. Sharpener Housing Assembly (Exploded, Front View)



Sharpener Housing Assembly

(Rear View)

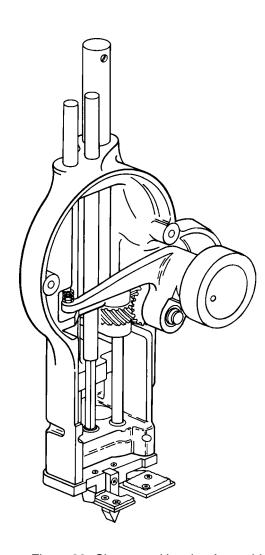


Figure 26. Sharpener Housing Assembly (Assembled, Rear View)

Note: Please specify model and serial number of machine when ordering parts.

Part No.	No. Req'd 	Description
	O. S. S. S. T. R.	
4C2-2	1	Lock Nut for Shaft
4C2-85	1	R.H. Follower Nut
4C2-86	1	L.H. Follower Nut
11C12-58	1	R.H. Square Shaft 5"-8" Knife
11C12-59	1	R.H. Square Shaft 9"-10" Knife
11C12-81	1	R.H. Square Shaft 11-1/2" Knife
11C12-85	1	R.H. Square Shaft 13" Knife
11C12-56	1	L.H. Square Shaft 5"-8" Knife
11C12-57	1	L.H. Square Shaft 9"-10" Knife
11C12-80	1	L.H. Square Shaft 11-1/2" Knife
11C12-84	1	L.H. Square Shaft 13" Knife
11C12-64	1	Shaft for Crank
12C11-74	1	Thrust Washer
12C15-29	2	Thrust Washer
12C15-30	2	Thrust Washer for Bottom Plate
17C15-78	1	Pin for Bell Crank
17C15-103 17C15-113	1 1 1	Roll Pin for Push Rod Spreader Pin
18C6-81 18C6-26 34C10-89	1	Retaining Ring for Shaft Retaining Ring for Bell Crank Spring for Bell Crank
55C4-41 62C16-151	1	Spacer for Ball Bearings Sharpener Housing (Only)
65C6-75	1	Push Rod
71C1-10	1	Oil Retainer-Idler Gear
73C7-46	1	Tube for Square Shaft 5"-8" Knife
73C7-47 73C7-86	1	Tube for Square Shaft 9"-10" Knife Tube for Square Shaft 11-1/2" Knife
73C7-88 73C7-48 73C7-49	1 1 1	Tube for Square Shaft 13" Knife Tube for Screw Shaft 5"-8" Knife Tube for Screw Shaft 9"-10" Knife
73C7-85	1	Tube for Screw Shaft 11-1/2" Knife
73C7-87	1	Tube for Screw Shaft 13" Knife
79C12-163	1	Bottom Plate, Sharpener Housing
85C3-6E	1	Bell Crank (Only)
87C3-8	1	Spiral Gear
87C3-44	2	Spur Gear
87C3-53	1	Gear and Shaft
90C4-29	1	Bearing for Drive Shaft (Lower)
90C4-29 90C4-33 90C4-34	2	Bearing for Gears Bearing for Bell Crank
90C4-42 90C4-48 90C4-58	1 1 1	Bearing for Drive Shaft Bearing for Drive Shaft (Upper) Bearing for Screw Shaft
90C6-24 142C1-7	2	Bealing for Sciew Shart Ball Bearing for Crank Key for Gear
191C1-21	1	Felt Pad for Cross Head
300C7-1	1	Screw, #4-36 x 1/8 Round Head
300C10-1	2	Screw, #6-32 x 3/16 Round Head
302C10-6	1	Screw, #6-32 x 1/2 Flat Head
302C12-3	3	Screw, #8-32 x 3/8 Flat Head
584C2-3 584C3-16	1	Bell Crank with Pin & Bearing (Only) Bell Crank Complete with Lever
602C1-7 602C1-9	1	Slow Speed Driver Assembly Driver Pulley with Driver
627C1-10	1	Idler Gear & Bushing
716C1-12	1	Driver Shaft with Gear
727C1-6	1	Oil Pad & Holder

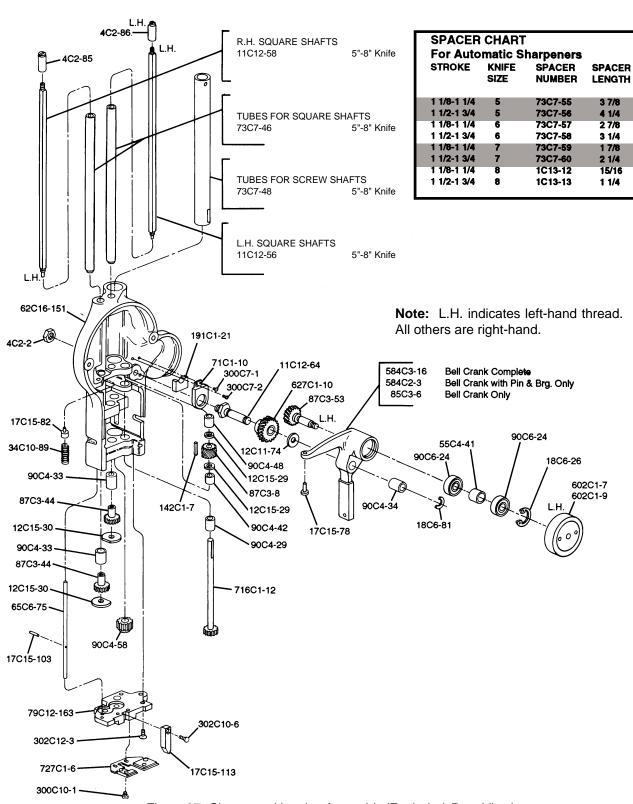


Figure 27. Sharpener Housing Assembly (Exploded, Rear View)



Lower Gear Bracket Assembly

Illustrated Parts List

Complete Sharpener Assembly Numbers: 637C10-*					
		Machine Stroke			
hine		1-1/8"	1-1/4"	1-1/2"	1-3/4"
Height of Machine	5" 6" 7" 8"	-20, -24, -28, -32,	-21, -25, -29, -33,	-22, -26, -30, -34,	-23, -27, -31, -35,

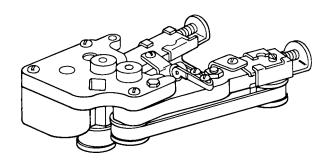


Figure 28. Lower Gear Bracket Assembly (Assembled View)

Part No.	No. Req'd	Description
4C1-189 4C2-63 12C15-93	1 2 4	Jam Nut, #8-32 Nut for Sharpener Shoe Screw Washer, Shoe
17C15-106 20C6-25 20C12-57	2 1 2	Roll Pin (For Pulley 152C1-19) Adjusting Screw Screw for Sharpener Shoe (Wave Knife Only)
20C12-143 20C12-153 21C14-14 34C10-45 34C10-47	1 2 2 2 1	Screw for Clamping Arm Screw for Sharpener Shoe Bushing for Sharpener Shoe Spring for Pulley Slide
34C10-47 34C10-57 34C10-123	1 1	L.H. Sharpener Shoe Spring (Wave Knife Only) R.H. Sharpener Shoe Spring (Wave Knife Only) Spring for Arm

Note: Please specify model and serial number of machine when ordering parts.

Part No.	No. Req'd	Description
34C10-148	1	L.H. Sharpener Shoe Spring
34C10-149	1	R.H. Sharpener Shoe Spring
35C7-28	1	Clamping Arm for Shoe
53C4-78	1	Gear Cover
54C4-35	1	Oil Hole Plug
62C6-31	1	Bracket, Lower Gear
70C4-32	1	Guide Back of Standard
79C12-219	2	Wear Plate
87C3-50	1	Gear on Screw Shaft
87C5-13	1	Intermediate Gear
90C4-47	1	Bearing for Intermediate Gear
90C4-51	1	Bearing for Screw Shaft
90C4-59	2	Bearing for Shaft Extension
147C1-28	1	R.H. Shaft Extension
147C1-29	1	L.H. Shaft Extension
152C1-19	2	Front Pulley for Belt
209C1	2	Neoprene Band for Pulley
300C7-3	4	Screw, #4-36 x 1/4 Round Head
300C10-2	2	Screw, #6-32 x 1/4 Round Head
300C10-6	3	Screw, #6-32 x 1/2 Round Head
301C7-2	2	Screw, #4-36 x 3/16 Fillister Head
301C10-3	1	Screw, #6-32 x 3/8 Fillister Head
309C12-2	1	Stop Screw, L.H. Shoe
712C1	1	R.H. Slide with Pulley
712C1-1 712C1-1 715C1-19	1	L.H. Slide with Fulley Lower Gear Bracket with Cover Brgs., Screws & Wear Plate 5"-8" Knife
715C1-23 728C1-5	1 2	Lower Gear Bracket (Complete) Stabilizer Assembly
743C1-26 743C1-27	1	R.H. Shoe (Wave Knife Only) L.H. Shoe(Wave Knife Only)
743C1-28 743C1-29	1	R.H. Pre-set Sharpener Shoe (Only) L.H. Pre-set Sharpener Shoe (Only)
820C1-7 820C1-8	1 1	L.H. Complete Shoe Assembly R.H. Complete Shoe Assembly

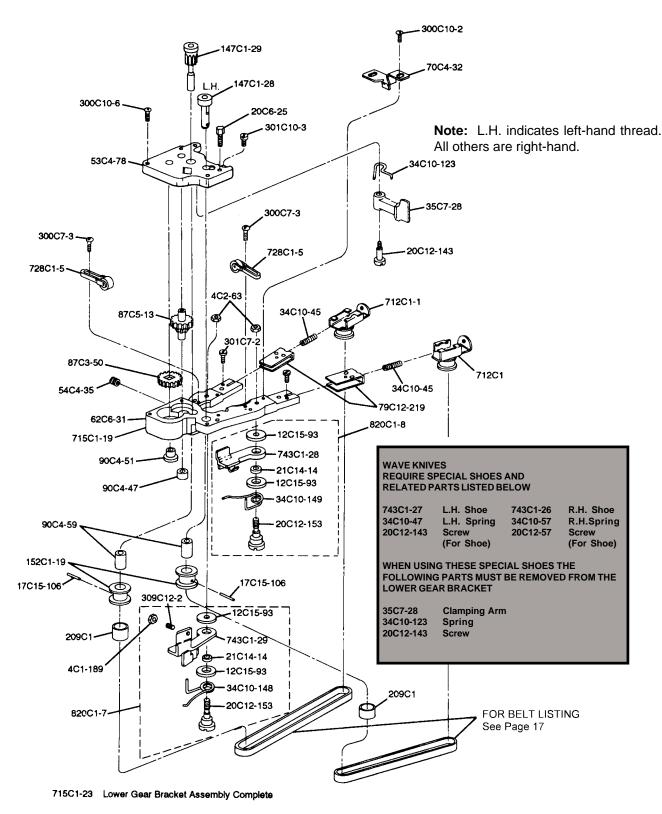
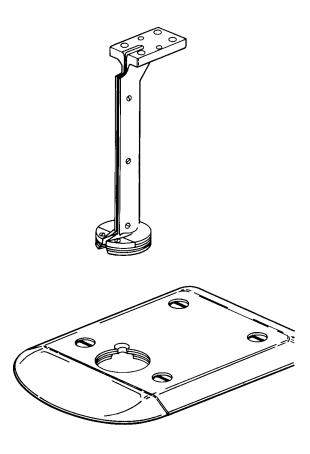


Figure 29. Lower Gear Bracket Assembly (Exploded View)



Standard and Baseplate Assembly



Part No.	No. Req'd	Description
12C1-35 12C15-77 17C1-4	4 1 2	Lock Washer, #8 Washer for Micro Fog Standard Taper Pin #0 x 3/4
17C6-9 20C5-12	2 8	Hinge Pin Clamp Screw for Rollers
20C12-19	1	Knife Slide Screw
20C13-51 34C1-57	4 2	Hinge Pin Clamp Screw Plate Wing Tension Spring
60C1-55	1	Plate Wing (For Small Plates)
79C4-12 79C4-24	1 1	Throat Plates with Screws and Pins Tapered & Relieved Throat Plates Assembly
213C1-1	6	Fibre Shim
302C12-3	3	Screw, #8-32 x 3/8 Flat Head
505C3-223	1	Small Plate Base Complete (5"-8" Knife)
505C3-243	1	Small Plate Base Complete (5"-8" Knife) Used with Swivel Roller Assembly Only
528C1-112	1	Micro Fog Standard (Complete with Slides and
528C1-123	1	Throat Plates) 6" Knife Standard (Complete with Slides and Throat Plates) 5" Knife
528C1-120	1	Standard (Complete with Slides and Throat Plates) 6" Knife
528C1-122	1	Standard (Complete with Slides and Throat Plates) 7" Knife
528C1-121	1	Standard (Complete with Slides and Throat Plates) 8" Knife
532C2-3	4	Rubber Mounted Roller (Complete)
532C2-5	4	Rubber Mounted Roller (Complete)
532C2-7	4	Rubber Mounted Roller (Complete)
619C1-31	4	Roller Shell (Complete)
643C1-44 643C1-41	1 1	Knife Slides (Complete with Screws) 5" Knife Knife Slides (Complete with Screws) 6" Knife
643C1-42	1	Knife Slides (Complete with Screws) 7" Knife
643C1-43	1	Knife Slides (Complete with Screws) 8" Knife
643C1-51 619C1-32	1 2	Knife Slides (Complete with Screws) 6" Micro Fog Swivel Roller Assembly

Figure 30. Standard and Baseplate Assembly (Assembled View)

Note: Please specify model and serial number of machine when ordering parts.

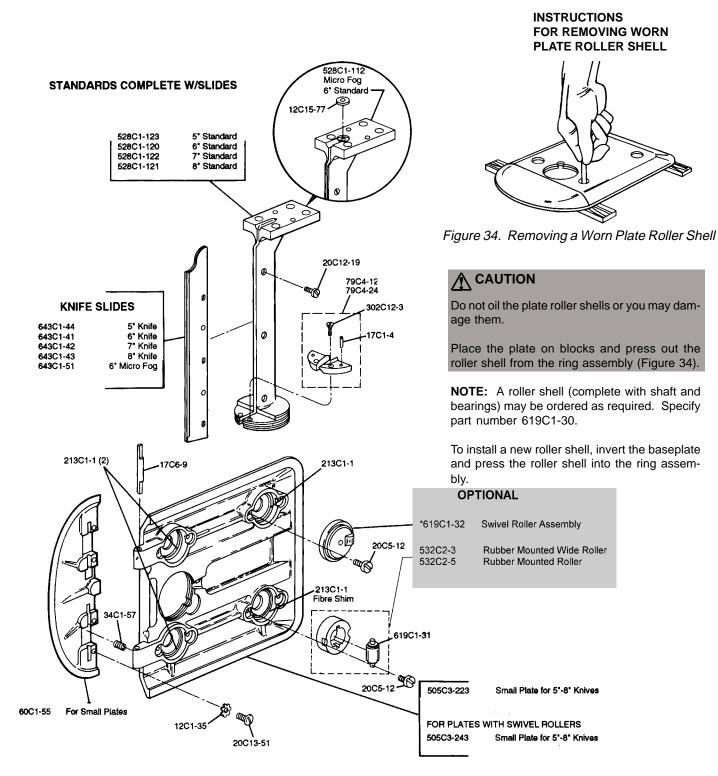


Figure 31. Standard and Baseplate Assembly (Exploded View)



