EASTMAN LIGHT WEIGHT ROUND KNIVES



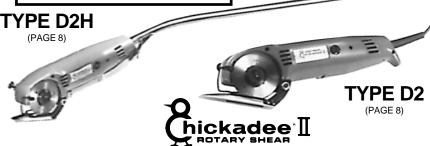


CAUTION

MACHINE EQUIPPED

WITH

SHARP BLADE





INSTRUCTION BOOK AND PARTS LIST

Eastman®

Over a Century of Cutting Expertise

779 WASHINGTON STREET BUFFALO, NEW YORK 14203 AREA CODE: 716, 856-2200

EASTMAN DEPENDABILITY, EASTMAN QUALITY AND EASTMAN SERVICE ARE YOUR GUARANTEE THAT EASTMAN CUTTERS CUT COSTS. THERE'S AN EASTMAN FOR EVERY CUTTING NEED.

Website: www.eastmancuts.com

DESCRIPTION



BBS – Equipped with single Sharpener and Shear Plate where continuous honing of Knife is desired. 3 1/4" Hexagon Knife.



 $BBB32-Has\ a\ 3\ 1/4"$ Knife for increased capacity and an adjustable Throat Plate.

CAUTION

Read instructions carefully before starting motor. Be sure that voltage and current are the same as stamped on nameplate. All Eastman machines shown in this catalogue are equipped with sharp blades and extreme caution should be used when this machine is put into use. When this equipment is not being utilized, the power supply should be disconnected from the equipment.

TO OPERATE MACHINE

Turn machine to ON position; if cutter does not start immediately return switch to OFF position. Check the line output and be sure that the unit is plugged in properly and is making full contact. Do not attempt to start this unit while it is in the material to be cut.

WARNING

Before performing any of the following procedures, make sure that the attachment plug has been disconnected from power source.

KNIFE REPLACEMENT

BBS32 (page 5) – To remove knife, lay machine on side and carefully insert blade of screwdriver into fan of the motor and using Spanner Wrench (95C1-19) inserted into Locknut (4C1-175) or (4C1-182), turn counterclockwise and remove Locknut – replace knife making sure the word "Eastman" faces outward.

BBB32 – To remove knife, line up hole in knife and hole in standard, insert pin and use Spanner Wrench (95C1-21). Turn counterclockwise and remove. Replace knife with Eastman name facing outward.

CAUTION -

Discard used sharp knives with care.

THROAT PLATE ADJUSTMENT

BBB32 (Page 7) – These machines are equipped with an adjustable Throat Plate (79C5-249) and it is important that the edge of the knife be as close as possible without touching edge of knife and equally straddling the blade. Two (2) Screws located on bottom of base can be loosened and tightened for this adjustment.

SHEAR PLATE ADJUSTMENT

BBB (Page 5) – When adjusting the shear plate on the Model BBB, adjusting screw (20C6-26) in a clockwise manner will increase the spring tension on the shear plate; adjusting the screw in a counterclockwise manner will reduce the spring tension.

LUBRICATION

BBB32 - BBS32

OIL – Fill oil cup (72C4-2) daily and a small drop of SAE 30 non-detergent motor oil at each end of Sharpener Adjusting Bushing.

GREASE – To lubricate, remove Plug (54C4-35) page 5 or page 7 and inject small quantity of Eastman Gear Lubricant Special Formula (242C2) at 90 day intervals for intermittent use. Every six months the (20C12-145) (BBB32) and (20C12-165) (BBS32) screws that retain the knife gear should be removed and the knife gear taken out and inspected thoroughly to insure that no thread or lint build-up is in or around the gear area.

CAUTION —

Do not use sewing machine oil or detergent oil. It is entirely too light for cutting machine lubrication. For best results use specially compounded Eastman Oil or at least a good grade SAE 30 motor oil. Do not oil base plate rollers.

Do not overload with grease as machine will run hot at gear assembly. Remove knife and gear and remove excessive grease.

MAINTENANCE PROCEDURES

- 1. Keep rollers of the base plate free of lint. Motor should be blown clear of lint and dust weekly using air hose at 90
- 2. Periodically check terminal pins on the terminal block and the terminal in the attachment plug to insure full contact.
- 3. When replacing the knife on your cutting unit be sure to clean out any lint build up between knife and standard.
- 4. If the cutting unit seems to lag or run hot when not cutting, run machine with knife removed to check for overgreasing or any obstructions.
- 5. When changing knife or cleaning machine check all screws and nuts for tightness.
- 6. Carefully remove spring loaded brushes replace brushes when worn to less than .165 inches (4.2mm) or if springs are less than .350 inches (9.00mm).
- 7. When your machine performance does not appear to be up to par, contact your Eastman Machine authorized dealer.

MOTOR BRUSH REPLACEMENT

When replacing brushes (36C1-13) in the motor, carefully remove the (54C4-43) brush caps, remove the (34C1-58) brush with springs and replace brushes accordingly.

KNIFE SHARPENING

BBB32R - BBS32 - Connect power cord and switch motor on. To obtain a fine, keen edge on the blade, press lightly on sharpener lever or button with a constant pressure.

KNIFE SHARPENER REPLACEMENT BBB32 - BBS32

— CAUTION –

Disconnect from electric power source when servicing.

As the emery wheels wear away and become farther apart, they must be adjusted. Proceed as follows:

- 1. Slightly loosen four (4) slotted screws (300C8-2) holding adjusting bushings in place.
- 2. With fingers, turn adjusting bushings (20C6-23) until emery wheels are as close together as possible without touching and centered over knife. Both wheels should grind at the same time when pressed lightly against knife with a maximum 1/32 inch clearance between wheels. The sharpened edge (bevel) should be no more than 1/16 inch.
- 3. Tighten four (4) screws.

TO REPLACE EMERY WHEELS BBS32

- 1. Remove left hand cap 2 screws (300C8-2) - lift out emery wheel with bushing.
- 2. Remove screw (20C13-30).
- 3. Coat new emery wheel spindle with oil and re-assemble to arm (620C1-21).
- 4. Repeat above steps for right hand emery wheel.

NOTE

Left and Right caps must be replaced in the same manner that they were removed.

BBB32

- 1. Remove cap (35C5-45) and lift out emery wheel and bushing. Then remove screw (304C10-3) from left hand emery wheel and pull out emery wheel (541C1-10). Replace wheels and re-assemble.
- 2. Adjust wheels as outlined for BBR.

BBS32

Remove sharpener (637C1-23) from machine and disassemble as shown in diagram page 5 - replace emery wheel (541C1-22). Lubricate - re-assemble - re-install.

220 VOLT MACHINES

When using the 220 volt machine on three phase outlets, use adaptor (509C1-54) by simply mounting this adaptor on the (25C5-49) single phase attachment plug. The two live leads of the (615C1-5) three phase attachment plug can be utilized for the power this machine requires.

KNIFE GUARD ADJUSTMENT

Knife guards (25C4-144) and (25C4-106) should be regulated in a manner that only allows the material to pass through the material to be cut.

REPLACEMENT BLADES

Machine Type	Size	Part N Carbon	umber High Speed	Blade Type
BBS32	2 1/2"	80C1-114 80C1-138*	80C1-114HS —	Round Hex
BBB32	3 1/4"	80C1-84*	80C1-84HS	Round
D2 D2H	2 1/4"	_	80C1-147HS* 80C1-149HS	Round Hex
BUZZ	2-1/32"	_	80C1-123HS* 80C1-133HS	Semi Square Octagon

*Standard Blade

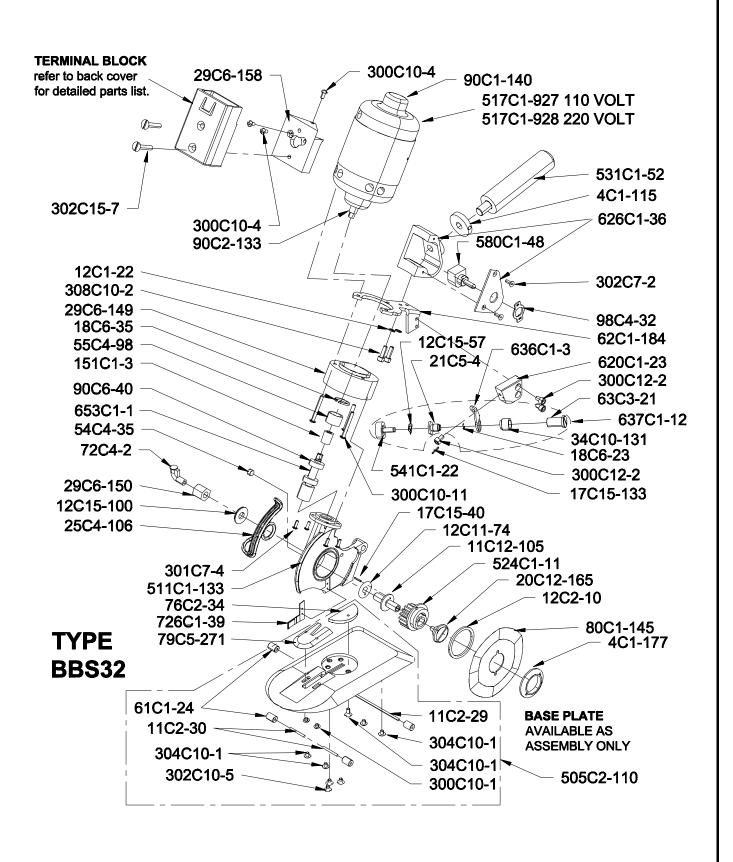
ILLUSTRATED PARTS LIST



TYPE BBS32

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

## C1-115	Part No.	No. Req'd	Description
CC1-177	4C1-115	1	HANDLE LOCKNUT
AC2-101			
11C2-29			
11C2-30			
12C1-22			
12C21-0			
12C11-74		2	WASHER, SHAKE PROOF
12C15-57		1	FELT WASHER FOR STAND
12C15-100			
17C15-40			
17C15-133			
SNAP RING			
RETAINING RING			,
Deciding			
Temperature			
25C4-106 1 KNIFE GUARD 29C6-149 1 MOTOR ADAPTOR 29C6-150 1 OIL CUP ADAPTOR 29C6-158 1 TERMINAL BLOCK ADAPTOR 34C1-58 2 BRUSH SPRING 36C1-13 1 SHARPENER SPRING 36C1-13 2 BRUSH PLUG 54C4-35 1 GREASE PLUG 54C4-43 2 BRUSH PLUG 55C4-98 1 SPACER BEARING 61C1-24 4 PLATE ROLLER SHELL 62C1-184 1 HANDLE BRACKET 3632-21 1 SHARPENER BUTTON 72C4-2 1 OIL CUP 76C2-34 1 PLATE FILLER 90C3-13 1 BEARING HOUSING REAR 90C2-133 1 BEARING HOUSING REAR 90C2-133 1 BEARING HOUSING REAR 90C4-32 1 BEARING WORMSHAFT 98C4-32 1 ON/OFF CLIP 151C1-3 1 COUPLING MOTOR 300C10-4		1	THRUST SCREW
29C6-149 1 MOTOR ADAPTOR 29C6-150 1 OIL CUP ADAPTOR 34C1-58 2 BRUSH SPRING 34C10-131 1 SHARPERER SPRING 36C1-13 2 BRUSH PLUG 54C4-35 1 GREASE PLUG 54C4-43 2 BRUSH PLUG 55C4-98 1 SPACER BEARING 61C1-24 4 PLATE ROLLER SHELL 62C1-184 1 HANDLE BRACKET 63C3-21 1 SHARPENER BUTTON 72C4-2 1 OIL CUP 76C2-34 1 PLATE FILLER 79C5-271 1 THROAT PLATE 80C1-145 1 KNIFE 90C1-140 1 BEARING HOUSING REAR 90C2-133 1 BEARING HOUSING REAR 90C2-134 1 COUPLING MOTOR 30C6-40 2 BALL BEARING, WORMSHAFT 95C4-32 1 COUPLING MOTOR 30C10-1 2 SCREW, 6-32 X 3/16 ROUND HEAD 300C10-1	21C5-4	1	EMERY WHEEL BUSHING
29C6-150 1 OIL CUP ADAPTOR 29C6-158 1 TERMINAL BLOCK ADAPTOR 34C10-131 1 SHARPENER SPRING 36C1-13 2 BRUSH 54C4-35 1 GREASE PLUG 54C4-43 2 BRUSH PLUG 55C4-98 1 SPACER BEARING 61C1-24 4 PLATE ROLLER SHELL 62C1-184 1 HANDLE BRACKET 63C3-21 1 SHARPENER BUTTON 72C4-2 1 OIL CUP 76C2-34 1 PLATE FILLER 79C5-271 1 THROAT PLATE 80C1-145 1 BEARING HOUSING REAR 90C2-133 1 BEARING HOUSING FRONT 90C6-40 2 BALL BEARING, WORMSHAFT 90C6-40 2 BALL BEARING, WORMSHAFT 90C6-133 1 COUPLING MOTOR 300C10-1 2 SCREW, 6-32 X 3/16 ROUND HEAD 300C10-2 3 SCREW, 6-32 X 3/8 ROUND HEAD 300C10-4 3 SCREW, 6-32 X 1/4	25C4-106	1	KNIFE GUARD
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34C1-58 34C10-131 1	29C6-150	1	OIL CUP ADAPTOR
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637C1-12 1 SHARPENER, COMPLETE			
12001-09 I SHEAR PLATE ASSEMBLY			
	12001-39	I	SHEAR PLATE ASSEMBLY



ILLUSTRATED PARTS LIST



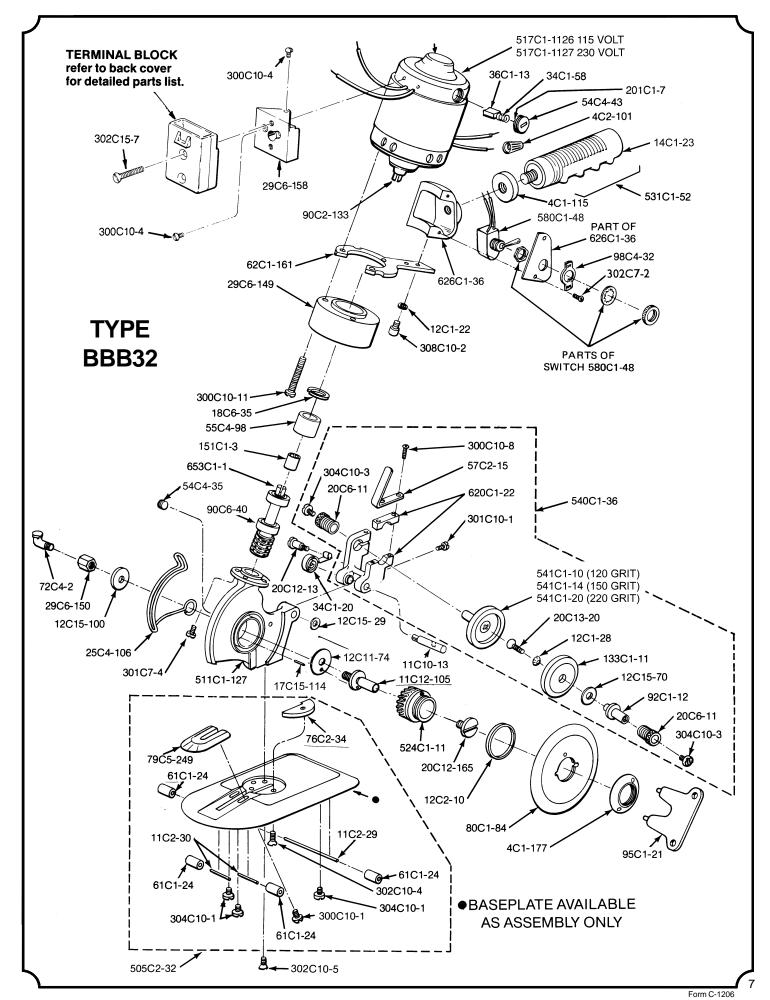
PLEASE SPECIFY MACHINE NAME AND SERIAL NUMBER WHEN ORDERING PARTS.

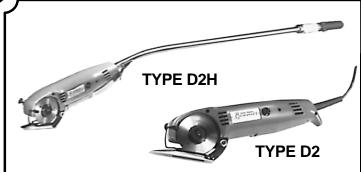
Eastman®

Over a Century of Cutting Expertise

779 WASHINGTON STREET BUFFALO, NEW YORK 14203

PART NO.	DESCRIPTION
4C1-115	HANDLE LOCKNUT
	KNIFE LOCKNUT
	WIRE NUT (2 Req'd)
11C2-29	REAR ROLLER SHAFT
1102-30	FRONT ROLLER SHAFT (2 Req'd) SHARPENER SHAFT
11010-13	WHIEF GEAD SHAFT
12C1-22	KNIFE GEAR SHAFT WASHER SHAKE PROOF (2 Req'd)
12C1-28	LOCK WASHER (2 Req'd)
12C2-10	FELT WASHER FOR STAND
12C11-74	SPACING WASHER
12C15-29	FLAT WASHER
12C15-70	PAPER WASHER WASHER FOR WORM GEAR SHAFT
12C15-100	WASHER FOR WORM GEAR SHAFT
1401-23	RED HANDLE GRIPPIN IN STANDARD
1806-35	RETAINING RING
20C6-11	WHEEL ADJUSTING SCREW (2 Reg'd)
20C12-13	SHARPENER SPRING SCREW
20C12-165	THRUST SCREWSCREW SHARPENER (2 Req'd)
20C13-20	SCREW SHARPENER (2 Req'd)
25C4-106	KNIFF GUARD
29C6-149	MOTOR ADAPTER
29C6-150	OIL CUP ADAPTER TERMINAL BLOCK ADAPTER
2906-158	TERMINAL BLOCK ADAPTER SHARPENER SPRING
3401-20	BRUSH SPRING (2 Reg'd)
36C1-13	BRUSH (2 Req'd)
54C4-35	GREASE PLUG
54C4-43	BRUSH PLUG (2 Reg'd)
55C4-98	SPACER BEARING
57C2-15	SHARPENER LEVER
61C1-24	PLATE ROLLER SHELL (4 Req'd)
62C1-161	HANDLE BRACKET
7204-2	OIL CUP
7002-34	THROAT PLATE
80C1-84	KNIFF
90C1-140	BEARING HOUSING REAR
90C2-133	BEARING HOUSING FRONT
90C6-40	BALL BEARING, WORMSHAFT
92C1-12	
92C1-21	WRENCH
98C4-32	ON/OFF CLIP ON/OFF CLIP UNMOUNTED EMERY WHEEL (2 Req'd)
15101-11	
201C1-7	BRASS FYFI FT (2 Reg'd)
300C10-1	BRASS EYELET (2 Req'd)SCREW, 6-32 X 3/16 ROUND HEAD (2 Req'd)
300C10-4	SCREW. 6-32 X 3/8 ROUND HEAD (4 Reg'd)
300C10-8	SCREW 6-32 X 3/4 ROUND HEAD (3 Reg'd)
300C10-11	
30107-4	SCREW, 4-36 X 5/16 FILLISTER HEAD (4 Req'd)
301010-1	SCREW, 6-32 X 1/4 FILLISTER HEAD SCREW, 6-32 X 5/16 FLAT HEAD (2 Reg'd)
302C10-4	SCREW, 6-32 X 3/8 FLAT HEAD (2 Req'd)
302C15-7	SCREW, 6-32 X 3/8 FLAT HEAD (3 Req'd) SCREW, 10-32 X 1 FLAT HEAD (2 Req'd)
302C7-2	SCREW, 4-36 X 1/4 FLAT HEAD (2 Req'd)
304C10-1	
304C10-3	SCREW, 6-32 X 1/4 TRUSS HEAD (2 Req'd)
308C10-2	SCREW, 6-32 X 1/2 SOCKET HEAD (2 Req'd)
505C2-32	FLAT PLATE – ROLLER
51701-120	STANDARD MOTOR 115 VOLT
	MOTOR 113 VOLT
	KNIFE GEAR
531C1-52	HANDLE
540C1-36	HANDLE
541C1-10	(120 GRIT) EMERY WHEEL ASSEMBLY (2 Reg'd)
541C1-14	(150 GRIT) EMERY WHEEL ASSEMBLY (2 Req'd)
541C1-20	(220 GRIT) EMERY WHEEL ASSEMBLY (2 Reg'd)
54201-99	ARMATURE 115 VOLT
	ARMATURE 230 VOLT SWITCH
620C1-46	FMFRY WHEFI ARM
626C1-36	EMERY WHEEL ARM SWITCH BASE & BRACKET ASSEMBLY
	WORMSHAFT
	- · · · · · · · ·





DESCRIPTION

Your new Chickadee D2 or D2H is designed for increase performance and capacity, with a minimum of maintenance and service when not subjected to abnormal use.

CAUTION

Read instructions carefully before starting motor. Be sure that voltage and current are the same as stamped on name-plate.

TO OPERATE MACHINE

Turn machine to on position; if cutter does not perform properly check line output and be sure the unit it plugged in properly making full contact. Do not attempt to start this unit while it is in material to be cut.

WARNING

Before performing any of the following procedures, make sure that the attachment plug has been disconnected from power source.

REMOVE AND REPLACE THE KNIFE

Insert a pin thru knife against bottom of machine housing and with a large screwdriver, remove screw (300C12-3) and flange (53C11-112). DISCARD WORN SHARP KNIFE WITH CARE and install new blade with the Eastman facing outward.

To obtain a fine keen edge on the blade, press lightly on sharpener button with a constant pressure.

LUBRICATION

Follow this procedure yearly for intermittent use, or every six months for continuous use. Remove knife, remove retainer plate (79C12-276) (2 screws) with gear intact. Then remove screw (20C13-99) emery wheel (541C1-24) and wipe away any grit deposits. Apply a light coat of Eastman Lubricko Grease (242C2-2) to parts and reassemble. Then add small quantity of Eastman Lubricko Grease to gears and shaft. Saturate wick (191C1-37) with good quality SAE 30 non-detergent motor oil when changing blade.

DISASSEMBLY

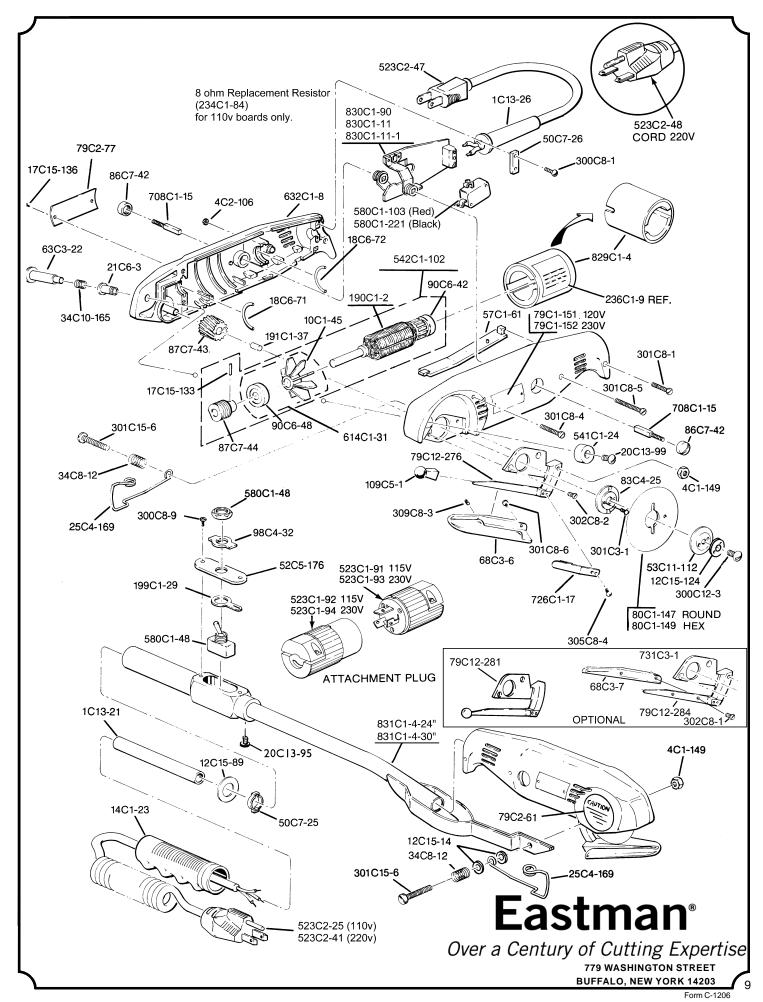
Remove knife. Remove two (2) flat head screws (302C8-2) and gear retaining plate (79C12-276) from housing.

Note: it is not necessary to loosen two fillister head screws (301C3-1) from knife flange.

Remove brush caps and brushes. Completely remove three fillister head screws (308C1-1, 308C1-4, 308C1-5) from housing and lift off left side motor housing, leaving motor parts in right side housing. Clean lint and dirt from motor housing and grease from gear cavity.

ILLUSTRATED PARTS LIST

	I O LIO I
PART NO.	DESCRIPTION
1C13-21	SLEEVE
1013-26	CORD SLEEVEHEX NUT
401-149 402-106	HEX NUT
10C1-45	FAN
12C15-14	FÅN WASHER, FLAT #10
12C15-89	WASHER
12C15-124	WASHER, BLADE RETAINER
14C1-23	HANDLE GRIP
17C15-133	ARMATURE PIN
17C15-136	PIN LABEL (4 REQUIRED) FRONT "O" RING HALF (2 REQUIRED) BACK "O" RING HALF (2 REQUIRED)
18C6-71	FRON I "O" RING HALF (2 REQUIRED)
1806-72	BACK O' RING HALF (2 REQUIRED)
20013-99 2106 2	SHARPENER BUSHING
2100-3 2504-169	
34C8-12	SPRING
34C10-165	SPRING SHARPENER SPRING
50C7-25	CORD CLAMP D-2H
50C7-26	
52C5-176	BASE SWITCH KNIFE COVER FLANGE
53C11-112	KNIFE COVER FLANGE
b/C1-61	SWITCH LEVER
63C3-22	SHARPENER BUTTON
0003-b	PRESSURE FOOT NARROW PRESSURE FOOT
08U3-7 70C1 151	DI ATE NO 120\/
<i>, 3</i> 01-131 79 <u>01-</u> 152	PLATE, NO. 120V PLATE, NO. 230V
79C2-61	
79C2-01	NAME PLATE
79C12-276	GEAR RETAINING PLATE
79C12-284	GEAR RETAINING PLATE FOR NARROW FOOT
80C1-147	ROUND KNIFE, 2 1/4" HEX KNIFE, 2 1/4"
80C1-149	HEX KNIFE, 2 1/4"
83C4-25	KNIFE FLANGE
86C7-42	KNIFE FLANGE BRUSH CAP (2 REQUIRED)
87C7-43	KNIFE GEAR
87C7-44	WORM GEAR
90C6-42	REAR BEARING FRONT BEARING
9006-48	FRONT BEARING
9505-7	ALLEN KEY
9804-32	ON/OFF PLATE TIP SHEAR PLATE
109C5-1	ARMATURE 120V
191C1-2	WICKING FELT
199C1-29	LUG
300C8-1	SCREW 4-40 X 3/8 ROUND HEAD (2 REQUIRED)
300C8-9	SCREW. 4-40 X 3/16 ROUND HEAD
300C12-3	SCREW. 8-32 X 3/8 ROUND HEAD
301C3-1	SCREW. 2-56 X 1/2 FILLISTER HEAD (2 REQUIRED)
301C8-1	SCREW. 4-40 X 1/2 FILLISTER HEAD
301C8-4	SCREW, 4-40 X 3/4 FILLISTER HEAD
301C8-5	SCREW, 4-40 X 1 1/2 FILLISTER HEAD
301C8-6	SCREW, 4-40 X 3/16 FILLISTER HEAD
301C15-6	SCREW, 10-32 X 1 FILLISTER HEADSCREW, 4-40 X 3/8 FLAT HEAD (2 REQUIRED)
302C0-1	3CREW, 4-40 X 3/6 FLAT HEAD (2 REQUIRED)
30200-2 30508-4	SCREW, 4-40 X 3/4 FLAT HEAD (2 REQUIRED) SCREW, 4-40 X 1/8 BINDING HEAD (2 REQUIRED)
309C8-3	SCREW, 4-40 X 1/8 SOCKET HEAD
523C1-91	ATTACHMENT PLUG 120V MALE
523C1-92	ATTACHMENT PLUG 120V FEMALE
523C1-93	ATTACHMENT PLUG 230V MALE
523C1-94	ATTACHMENT PLUG 230V FEMALE
	CORD 120V
	CORD 230V
523C2-46	CORD 230V EUROPE
523C2-47	CORD ASSEMBLY 120V DOMESTIC
523C2-48	CORD ASSEMBLY 230V DOMESTIC
541C1-24	EMERY WHEEL ASSEMBLY ARMATURE ASSEMBLY 120V
54201-102	ARMATURE ASSEMBLY 120V
500C1-48	SWITCH, D-2H
58001-103	
	FAN & BEARING
632C1-8	HOUSING, COMPLETE W/SWITCH LEVER
708C1-15	BRUSH W/SPRING (2 REQUIRED)
726C1-17	SHEAR PLATE W/CARBIDE
731C3-1	GEAR RETAINING NARROW FOOT ASSEMBLY
829C1-4	MAGNET ASSEMBLY
830C1-11	(110V ONLY) CIRCUIT BOARD ASSEMBLY
830C1-11-1	(110V D2H ONLY) CIRCUIT BOARD ASSEMBLY
830C1-90	(220V ONLY)CIRCUIT BOARD ASSEMBLY
831C1-4-24	
831C1-4-30	30" HANDLE & TUBE ASSEMBLY



ASSEMBLY

Install circuit board in right motor housing. Place armature of correct voltage into magnet ring (829C1-1). Insert armature and magnet by passing rear end of armature between brush holders on circuit board.

Note that notch in magnet ring must mate with stud in right housing for proper fit. Rotate magnet ring until slot "clicks" into stud.

Fit switch lever into recess at bottom of right housing. Check functioning of switch by squeezing lever when in place. Place left housing over right housing with slight pressure. Replace three screws into left housing. Pack gear cavity 3/4 full of Eastman grease. Replace gear retaining plate. Squeeze one drop of oil into knife screw hole. Replace knife with Eastman facing outward. Insert brushes and brush caps.

Repairs to these machines should be made by a qualified person familiar with safe repairs of electrical devices. Exercise extreme caution when working with, or near the blade as the cutting edge is extremely sharp. Be sure to disconnect machine from power supply and remove knife before continuing with adjustments or repairs.

To sharpen knife, press lightly on sharpener button with constant pressure, while machine is running. Lubricate wick (191C1-37) with Eastman oil when replacing blade or once each month.

REPLACE MOTOR BRUSHES

Remove black brush caps (86C7-42) from sides of housing with a large bladed screwdriver. Gently pull on springs to remove brushes. If brushes are stuck, tap machine gently on padded surface to loosen brushes.

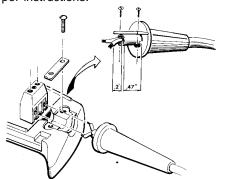
Replace brushes if worn to less than 5/32" (4.2mm) or if spring is less than 11/32" (9.0 mm). Replace brush caps and tighten gently.

ADJUSTMENT OF SHEAR PLATE

Shear plate (726C1-17) should contact knife at sharpened edge *only*. Clearance of back of shear plate is .010" (.25mm) and can be checked with feeler gage.

REPLACE CORD

Disassemble machine per instructions. Loosen two screws in terminal block and remove two screws (300C8-1) in cord clamp. Gently pull cord from terminal block. Strip outer jacket on new cord to .4" (12mm). Strip insulation on wires to .2" (5mm). Insert wire leads into terminal block and tighten two screws. Replace and secure cord clamp (50C7-26), making sure clamp bears on outer jacket of wire as shown. Reassemble per instructions.



FAN AND FRONT BEARING REMOVAL

Measure and record distance of fan and front bearing from rear bearing. Position armature assembly in collar jig, as shown. Lightly heat gear (87C7-44) at pin (17C15-133) to release adhesive.

CAUTION -

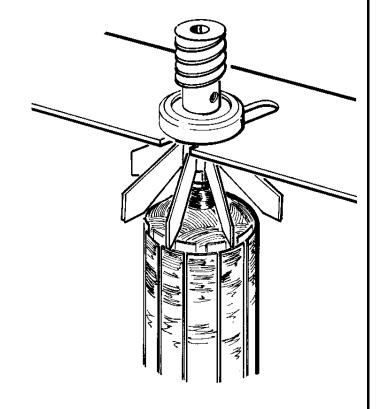
Do not heat entire armature.

Press worm from armature shaft with drift pin. Remove front bearing from armature shaft.

CAUTION -

Do not allow armature to fall from collar jig.

Remove fan by gently twisting and pulling fan from armature shaft.



Form C-1206

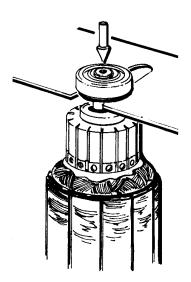
INSTALLATION OF FAN, FRONT BEARING AND WORM GEAR

Apply adhesive (Loctite 242 recommended) to inside diameter of fan, (10C1-45) bearing (90C6-48) and worm (87C7-44). Use steel tube with 1/4" I.D. to press fan, bearing and worm onto armature shaft. Make sure parts are returned to original position as recorded in FAN AND BEAR-ING REMOVAL, above.

Pin in worm must be aligned with slot in armature shaft for proper assembly.

REAR BEARING REMOVAL

Position armature in collar jig as shown. Use steel rod to press armature shaft through bore of bearing. Do not allow armature to fall from jig.



INSTALLATION OF REAR BEARING

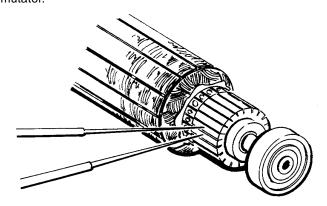
Lubricate armature shaft. Use 1/4" I.D. steel tube to press rear bearing down to shoulder on armature shaft.

Support armature at front end and protect shaft from bending during reassembly.

ELECTRICAL TESTS OF ARMATURE

Repeated blown fuses or burned resistor may indicate failed armature.

Use multimeter to check adjacent bar to bar resistance of commutator as shown. Check each bar around entire commutator.



VOLTAGE RESISTANCE 230v 20 ohms

230v 20 ohms 115v 10 ohms

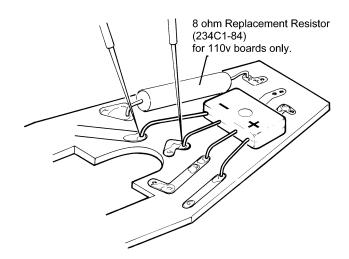
IF READINGS ARE 10% ABOVE OR BELOW STANDARDS, REPLACE ARMATURE.

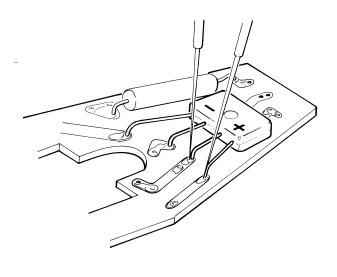
ELECTRICAL TESTS OF RECTIFIER

Set multimeter to 1,000 ohm scale. Measure resistance between negative and adjacent lead as shown. Reading should be 5-50 ohms. Reverse multimeter probes. Reading should be 1,000,000 (1 million) ohms minimum.

Repeat above procedure on remaining leads as shown. Readings should be identical to above.

Any readings other than above indicate failed rectifier and circuit board must be replaced.







(AIR REQUIRMENT: 10-12 CFM@90PSI)

DESCRIPTION

The Buzzaird Rotary Shear has been carefully designed by the Eastman Machine Company to efficiently cut a variety of fabrics and provide many years of trouble free service. This pneumatic cutter is equipped with a heavy duty pneumatic motor and can be used primarily for heavier types of material that cannot be cut with our now world-famous Chickadee Machine. The maximum output is 1/3 horsepower and should run at 90 psi with a 20,000 rpm motor speed. This machine should not be run with less than 60 psi.

BALL TIP AND SHEAR PLATE FOOT OPTIONAL*

A ball tip (109C5-1) for cutting loosely woven materials and shear plate foot (68C3-4) for additional support and cutting accuracy are optional. To attach shear plate foot to shear plate (726C1-5) use allen key (95C5-7) as illustrated.

WARNING

Before performing any of the following procedures, make sure the air line has been disengaged.

TO LUBRICATE

A few drops of 30 weight, non-detergent machine oil twice a day while operating are all that is required to keep the buzzaird lubricated. The parts illustration (page 13) clearly indicates the three recommended lubrication points. To lubricate gears, remove plug (point C), inject grease once a day. Eastman Gear Lubricant Special Formula (242C2) is recommended. Be sure oil felt (191C1-26) is kept clean and moist with oil.

TO REMOVE KNIFE

Remove lock nut (4C1-194) turn counter-clockwise and lift knife from the gear. When replacing knife (80C1-123) be sure the knife is installed so that the Eastman name is in the outward position.

ILLUSTRATED PARTS LIST

PART NO.	DESCRIPTIONKNIFE LOCK NUT
4C1-194	KNIFE LOCK NUT
4C3-12	ADJUSTING NUT
12C15-57	SPRING WASHER
12C15-74	THRUST WASHER
12C15-95	THRUST WASHER WASHER FOR KNIFE GUARD
*17C9-10	LOCK PIN
17C15-127	PIN
18C6-23	RETAINING RING
18C6-35	RETAINING RING
20C5-21	CLAMP SCREW
20C12-117	SCREW 6-32 X 3/8 FLAT HEAD
20C13-56	
20C13-63	SET SCREW
21C5-4	SET SCREW SHARPENER BUSHING
25C4-150	
*25C4-192	PELLICAN STYLE KNIFE GUARD
29C6-142	MOTOR ADAPTER
*29C6-178	MOTOR ADAPTERSWIVEL SHARPENER MOTOR ADAPTER
34010-131	SHARPENER SPRING
*34C10-151	LOCK PIN SPRING
34010-134	KNIFE SPRING
54010-103	DITIC
6202 21	PLUG SHARPENER BUTTON
*69C2 /	SHEAR FOOT
*60C3 40	SHEAR FOOT EXTENSION
0003-10	SHEAR FOOT EXTENSION (4-SIDED) KNIFE
0001-123	(4-SIDED) KNIFE
0001-127	(ROUND) KNIFE (OCTAGON) KNIFE
*05C5 7	ALLEN KEY
	BALL TIP
	OIL FELT
19101-20	DRIVER FOR MOTOR SHAFT
20001-11-1	SCREW, 8-32 X 1/2 ROUND HEAD (2 REQUIRED)
*20200 4	SCREW, 0-32 X 1/2 ROUND HEAD (2 REQUIRED)
*20000 4	SCREW,FLT. HD. #4-40 X 3/4 SCREW, 4-40 X 1/4 (2 REQUIRED)
51701 040 1	SCREW, 4-40 X 1/4 (2 REQUIRED)
51701-842-1.	AIR MOTOR
52401-10	(BRASS) KNIFE GEAR
52401-21	KNIFE GEAR
54101-22	SHARPENING STONE
63601-3	SHARPENER BRACKET
"636C1-17	SWIVEL SHARPENER BRACKET
63/01-12	SHARPENER, COMPLETE SWIVEL SHARPENER, COMPLETE
*63/C1-3/	SWIVEL SHARPENER, COMPLETE
647C1-1	STANDARD HOUSING
653C1-1	WORM, COMPLETE
720C1-42	KNIFE ROD, COMPLETE
/26C1-34	SHEAR PLATE PELLICAN STYLE SHEAR PLATE
^/26C1-3/	PELLICAN STYLE SHEAR PLATE
*726C1-38	30 DEGREE SHEAR PLATE
*/26C1-41	DULL POINT SHEAR PLATE EXHAUST OVER HOSE
817C1-1	EXHAUST OVER HOSE
817C1-2	AIR INTAKE HÖSE SWIVEL SHARPENER UPGRADE KIT
*820C1-105	SWIVEL SHARPENER UPGRADE KIT
822C1	MOTOR COUPLING

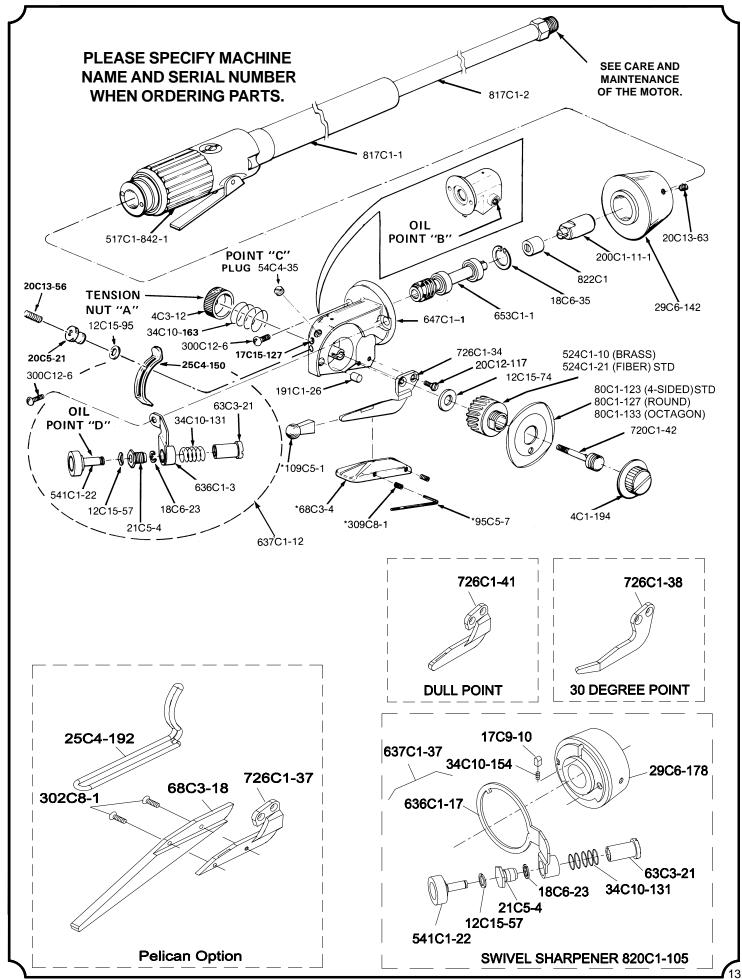
^{*}These parts furnished on special order.

TO REPLACE SHARPENING STONE

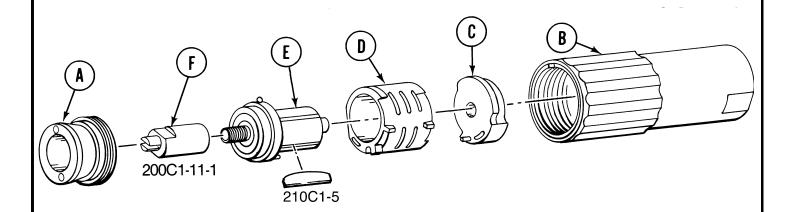
Sharpening stone may be replace as required without disassembling cutting head. Remove knife lock nut (4C1-194) and knife (80C1-123). Remove sharpener button (63C3-21) and sharpener spring (34C10-131) from rear of sharpener assembly. Sharpening stone and bushing assembly can then be removed from front of sharpener bracket (636C1-3). Remove retaining ring (18C6-23) from shaft of sharpening stone (541C1-22) and remove stone. Note: This procedure is reversed when reassembling.

CARE AND MAINTENANCE OF THE MOTOR

An air line oiler and filter should be used for the best performance of this pneumatic motor. The motor must be lubricated and free of moisture. If an air line oiler and filter is not available, a few drops of SAE 5 spindle oil should be used several times a day in the air input line.



INSTRUCTIONS FOR REPLACING DRIVER 200C1-11-1



- Remove retaining nut "A" from housing "B", while holding housing in a soft jawed vise by the flats. Insert spanner wrench and turn counter clockwise to remove nut.
- 2. Slide driver assembly "C", "D", "E" and "F" out of housing.
- BEFORE PROCEEDING FURTHER Not the orientation of the pins in the bearing housings "C" and "E", with respect to the pockets in the sleeves "D". THESE PARTS MUST BE AS-SEMBLED IN EXACTLY THE SAME WAY.
- 4. Rear bearing housing "C" is pressed on stub shaft of "E". To remove, clamp bearing housing in soft jawed vise. NEVER CLAMP SLEEVE DIAMETER "D" AS THIS MIGHT CAUSE THE SLEEVE TO CRACK. With a drift pin slightly smaller than the shaft diameter, lightly tap shaft out of the bearing housing.
- 5. The sleeve "D" will now slide off assembly "E" and "F".
- 6. Remove the driver "F" by clamping rotor at the vane diameter "E" in a soft jawed vise and turn counter clockwise with a wrench on the flats of driver "F".
- 7. Re-assemble in reverse of the above procedure. After completing assembly, check for free rotation of driver "F". Remedy any binding or chatter caused by the rear bearing housing being too tight by inserting a drift pin and tap end of stub shaft on "E" lightly to loosen assembly.

Form C-1206

Safety Information

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

WARNING

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.

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.

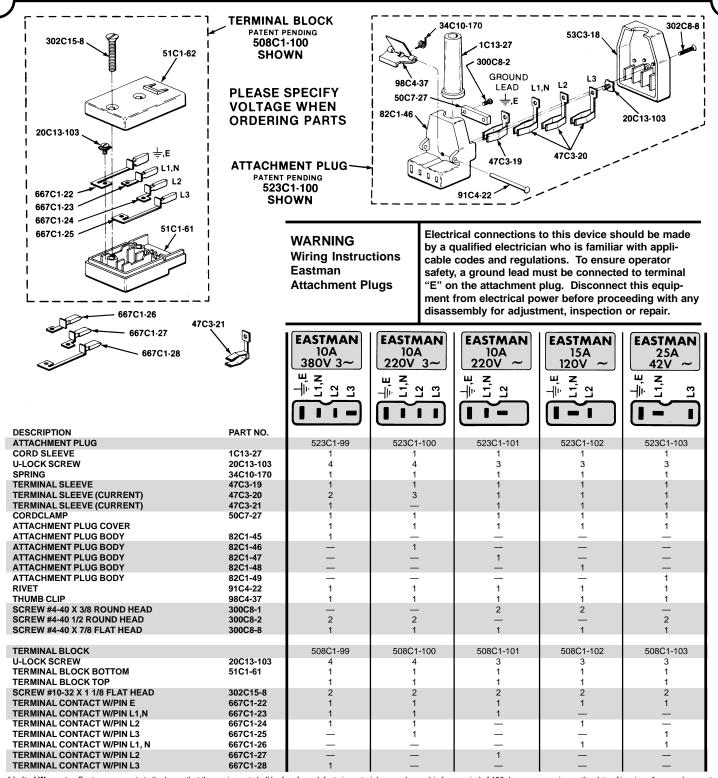
SAFETY AND INDEMNIFICATION

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 knife guard lowered at all times. Safety glasses and appropriate clothing may prevent serious personal injuries.
- Disconnect the power and 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. Electrical connections to this machine must be made by a qualified electrician familiar with applicable codes and regulations. To prevent electrocution, a ground lead must be connected to terminal "E" on the attachment plug.
- This machine may be equipped with a remote start interface. 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.



Limited Warranty. Eastman warrants to the buyer that the equipment 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 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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