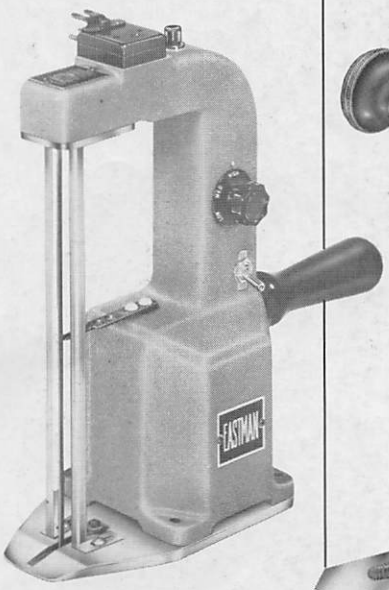
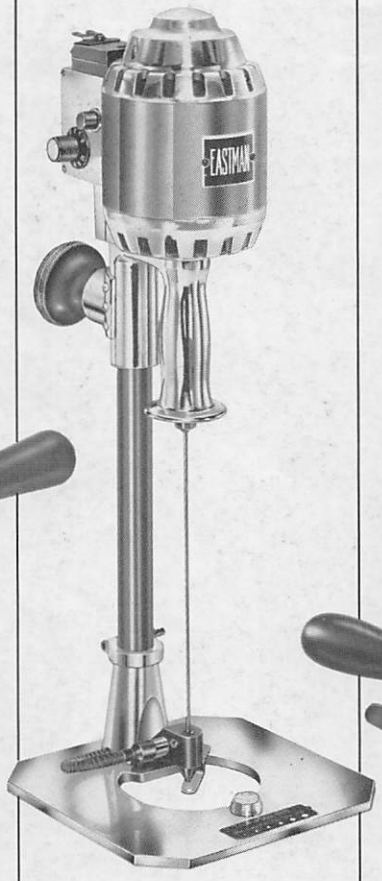
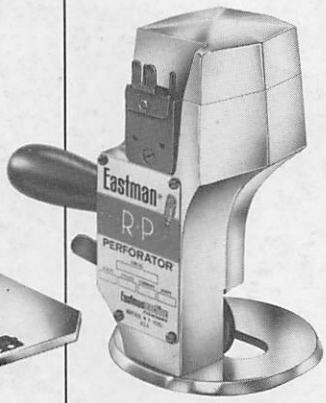
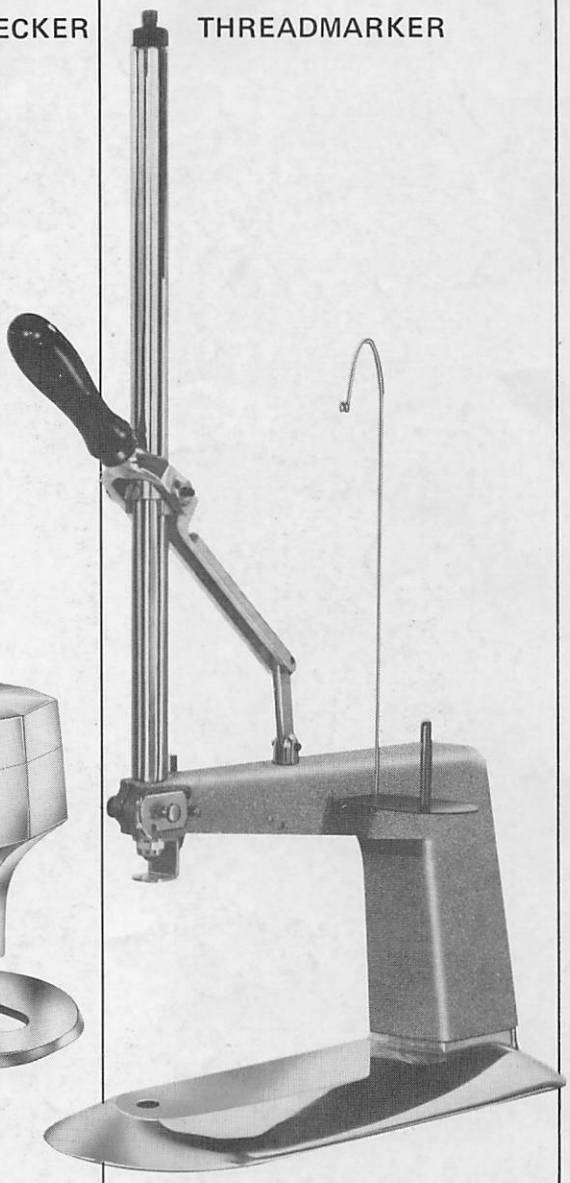
EASTMAN MARKING MACHINES

HOT NOTCHER	CLOTH DRILL	PATTERN PECKER	THREADMARKER
			
TYPE HHN PAGE 14	TYPE CD2, CD2H, CD3 and CD3H PAGE 3	TYPE RP PAGE 17	TYPE TM PAGE 10

INSTRUCTION BOOK AND PARTS LIST

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

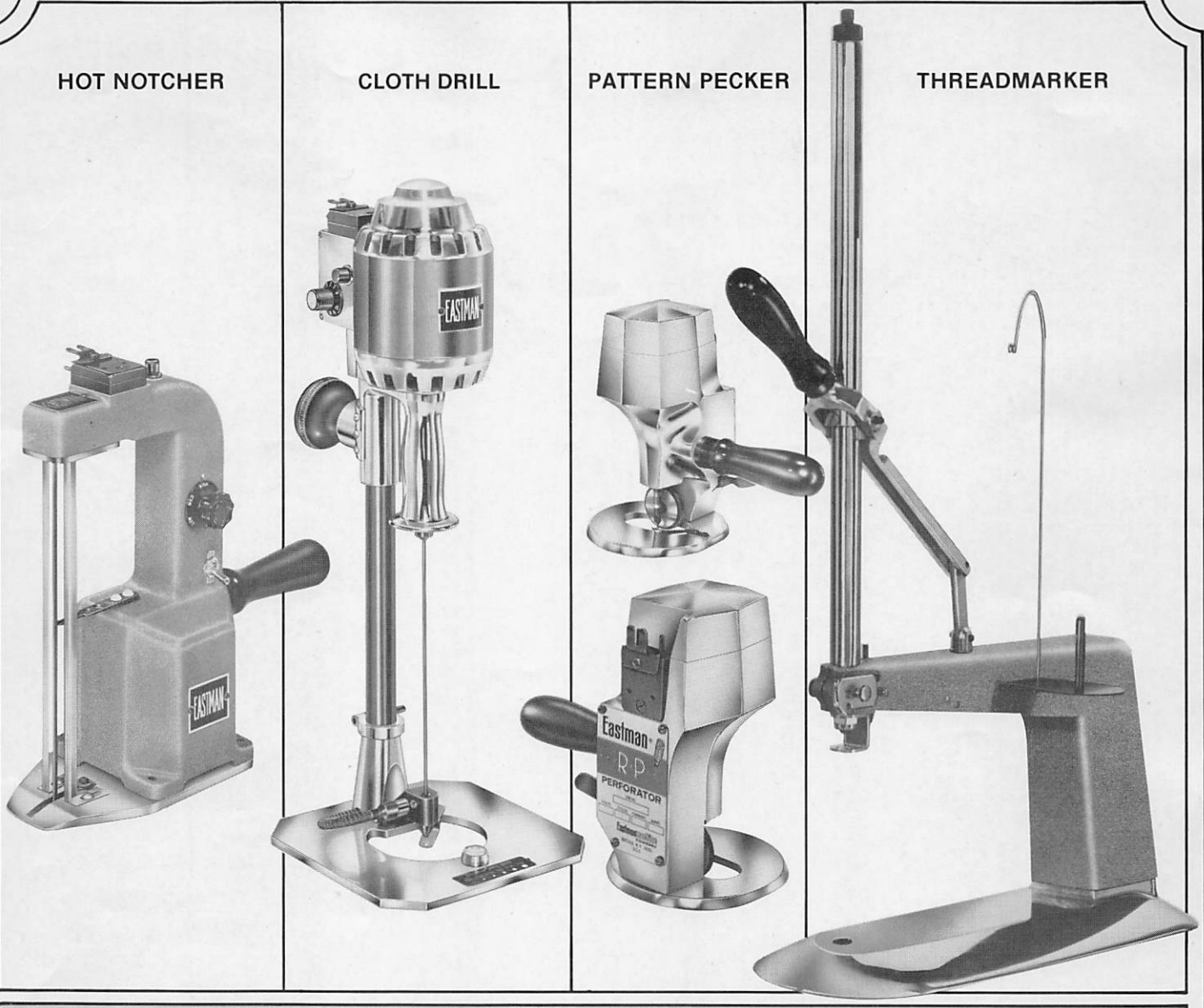
EASTMAN DEPENDABILITY, EASTMAN QUALITY AND EASTMAN SERVICE ARE YOUR GUARANTEE THAT EASTMAN CUTTERS CUT CUTTING COSTS. THERE'S AN EASTMAN FOR EVERY CUTTING NEED.

HOT NOTCHER

CLOTH DRILL

PATTERN PECKER

THREADMARKER



EASTMAN MARKING MACHINES

Eastman Machine Company manufactures a complete line of marking machines, carefully designed to save time and eliminate costly errors. Parts for these machines are readily available and Eastman Marking Machines are serviced by the same sales and service network that has made Eastman Cutting Machines so popular.

HOT NOTCHER — Burns a perfectly true mark in knit goods without costly raveling. No lost marks between cutting and sewing rooms.

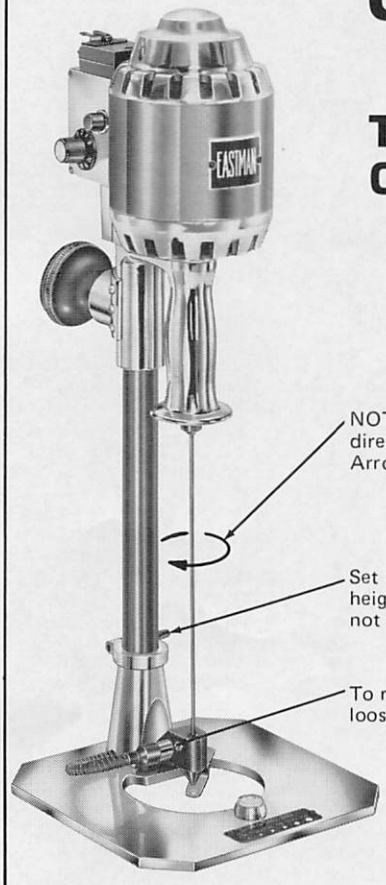
CLOTH DRILLS — Available with or without needle heating attachment with a 4, 6, 8 or 11-1/2 inch drilling capacity and drill sizes 3/64 to 3/8 inch diameter. This new design is lighter weight and features a lower profile — the drill post has been eliminated for improved accuracy, better balance and easier handling. New solid state control for needle heater heats faster, hotter and maintains needle heat longer . . . completely enclosed for operator safety. A new motor design, with a totally enclosed trouble free automatic cutout switch, delivers more power than previous models.

PATTERN PECKER — The new Model RP with the most powerful punch of any solenoid actuated perforator on the market makes it possible to punch multiple thicknesses of pattern paper. The new RP runs cooler and faster and is designed for full time operation. A single finger control enables operator to free-wheel or single punch, as desired.

THREADMARKER — Extra low base plate — only slightly higher than a cutting machine base — insures accurate marking from top to bottom. New design "Never-Miss" Looper catches the thread every time — plus simplified cocking mechanism — two valuable time saving features. Adjustable Needle Rod takes different length and diameter needles for both natural and synthetic fabrics.

EASTMAN CLOTH DRILL

TYPE CD2, CD2H, CD3 and CD3H



	DIAMETER INCHES	DIAMOND POINT	TAPER POINT	OPEN END AWL	CLOSED END AWL
TABLE ONE 4 Inch Drill	3/64 5/64 3/32 1/8 5/32 3/16 1/4 5/16 3/8	231C1 231C1-1 231C1-2 231C1-3 231C1-4	231C2-1 231C2-2 231C2-3 231C2-4 231C2-5	231C3 231C3-1 231C3-2 231C3-3 231C3-4 231C3-5 231C3-10 231C3-7	231C4 231C4-1 231C4-2 231C4-3
TABLE TWO 6 Inch Drill	3/64 5/64 3/32 1/8 5/32 3/16 1/4 5/16 3/8	231C1-6 231C1-7 231C1-8 231C1-9 231C1-10	231C2-7 231C2-8 231C2-10 231C2-12 231C2-13	231C3-18 231C3-11 231C3-12 231C3-13 231C3-14 231C3-15 231C3-16 231C3-17	231C4-5 231C4-6 231C4-7 231C4-8 231C4-9
TABLE THREE 8 Inch Drill	5/64 3/32 1/8 5/32 3/16	231C1-12 231C1-13 231C1-14	231C2-19 231C2-20 231C2-21 231C2-24	231C3-20 231C3-22 231C3-21	231C4-15 231C4-10 231C4-11 231C4-12
TABLE FOUR 11½ Inch Drill	3/32 1/8 5/32 3/16		231C2-27 231C2-26 231C2-28 231C2-29		231C4-17 231C4-18 231C4-19

OPERATING INSTRUCTIONS

CAUTION

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

LUBRICATION

The Upper and Lower Motor Ball Bearings as well as the Spindle Ball Bearing in the handle are grease sealed and require no lubrication.

OPERATION

Set gauge as indicated on illustration for drilling proper height of material.

Position Drill Marker over mark on material with drill directly over mark.

To start, throw Switch Lever to "on" position and let motor gather full speed before starting to drill.

Enter Drill or Awl in the goods slowly – Do not force the drill thru the goods with too much pressure as this will cause the drill to burn and possibly bend and snap off.

TO CHANGE DRILL

Lay Drill Marker on its side, use Chuck Key to loosen drill. Remove old drill from Chuck and pull down and thru Drill Guide Bushing.

Insert new Drill thru lower Drill Guide Bushing and up into Chuck. Tighten Drill using Chuck Key.

NOTE: Be sure correct size Guide Bushing is used for each diameter Drill or Awl – See Eastman Drill Selection Card Form C-1057.

CONVERSION KITS – Change 6" CD2 to Hot Drill

Part No. 820C1-3 110V 60cy Single Phase
Part No. 820C1-4 220V 60cy Three Phase

EASTMAN DRILL SELECTION TABLES

Eastman offers a wide selection of Drill Points and Awls for different type materials.

Make sure you get the type Drill you need. Avoid errors by using the Drill Number listed in the tables.

TABLE 1–Lists Drills and Awls for 4" Drills. These Drills actually measure 5½" Long.

TABLE 2–Lists Drills and Awls for 6" Drills. These Drills actually measure 7½" Long.

TABLE 3–Lists Drills and Awls for 8" Drills. These Drills actually measure 10" Long.

TABLE 4–Lists Drills and Awls for 11½" Drills. These Drills actually measure 13½" Long.

TABLE 5–Lists Drill Guide Bushings. **IMPORTANT:** Each diameter Drill or Awl requires a corresponding Guide Bushing.

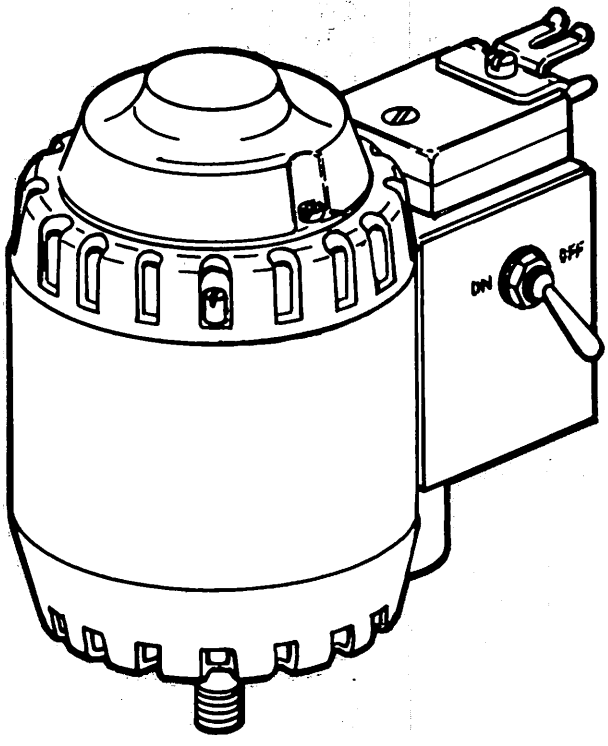
List the serial number of your drilling machine on all orders for drills or parts.

TABLE FIVE – Drill Guide Bushings

Drill Dia.	3/64"	5/64"	3/32"	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"
Hole Size	•	•	•	•	•	•	•	•	•
Bushing No.	21C13-40	21C13-36	21C13-34	21C13-35	21C13-37	21C13-38	21C13-42	21C13-41	21C13-44
NOTE: HOT DRILL Requires Bushing No.	21C13-51	21C13-52	21C13-53	21C13-54	21C13-55	21C13-56			

ILLUSTRATED PARTS LIST

SINGLE PHASE MOTOR ASSEMBLIES



CLOTH DRILL

Part No.	Description
4C1-180	NUT (4 Req'd.)
4C1-191	SHAFT LOCK NUT
4C1-192	LOWER BEARING NUT
†4C2-101	WIRE NUT
†4C2-111	SPEED NUT
8C5-10	AUTOMATIC SWITCH INSULATION
10C2-30	ROTOR FAN
†12C1-34	LOCK WASHER (2 Req'd.)
12C1-42	LOADING SPRING WASHER
†12C15-90	LOCK WASHER FOR CONTROL
18C6-31	TOLERANCE RING
18C6-36	LOCATING RING SWITCH
20C3-32	MOTOR SCREW (4 Req'd.)
20C12-2	TERMINAL SCREW (2 Req'd.)
20C13-91	DRIVE SCREW
47C2-4	TERMINAL PIN (2 Req'd.)
51C1-16	TERMINAL BLOCK TOP
51C1-17	TERMINAL BLOCK BOTTOM
†52C5-164	SWITCH BASE
†52C5-172	CONTROL, PILOT LIGHT, SWITCH BASE
*52C5-181	SWITCH BASE
*53C2-106	SWITCH COVER
53C7-39	REAR BEARING COVER
53C7-42	REAR BEARING COVER 11-1/2"
62C1-168	SWITCH BRACKET
73C7-121	TUBING INSULATION (2 Req'd.)
79C12-107	GROUND CLIP
90C1-154	UPPER BEARING HOUSING
90C2-144	LOWER BEARING HOUSING
90C6-43	LOWER BALL BEARING
90C6-44	UPPER BALL BEARING
93C2-1	TERMINAL CONTACT PIN (2 Req'd.)
†98C4-32	SWITCH CLIP
†104C1-6	DIAL INDICATOR
†144C1-10	PILOT LIGHT 110V.
†144C1-11	PILOT LIGHT 220V.
147C1-35	EXTENSION FOR COVER 11-1/2"
†251C1	HEAT CONTROL 220V.
†251C1-1	HEAT CONTROL 110V.
300C10-3	SCREW, 6-32 x 5/16 ROUND HEAD (3 Req'd.)
300C12-2	SCREW, 8-32 x 3/8 ROUND HEAD (2 Req'd.)
301C7-3	SCREW, 4-36 x 1/4 FILLISTER HEAD (8 Req'd.)
301C10-3	SCREW, 6-32 x 3/8 FILLISTER HEAD
301C10-4	SCREW, 6-32 x 1/2 FILLISTER HEAD (2 Req'd.)
301C14-7	SCREW, 10-24 x 1 FILLISTER HEAD (2 Req'd.)
301C15-5	SCREW, 10-32 x 7/8 FILLISTER HEAD
302C15-6	SCREW, 10-32 x 7/8 FLAT HEAD
512C1-122	ROTOR WITH FAN
513C3-220	ROTOR WITH SHAFT
514C4-110	STATOR WITH BAND 110V. 60cy. 3600 R.P.M.
514C4-114	STATOR WITH BAND 110V. 50cy. 3000 R.P.M.
514C4-115	STATOR WITH BAND 220V. 60cy. 3600 R.P.M.
514C4-116	STATOR WITH BAND 220V. 50cy. 3000 R.P.M.
523C1-51	ATTACHMENT PLUG COMPLETE
537C1-21	REAR BEARING COVER W/EXTENSION 11-1/2"
508C1-19	TERMINAL BLOCK COMPLETE (Single Phase)
†580C1-48	TOGGLE SWITCH
580C1-70	AUTOMATIC CUTOUT SWITCH
580C1-85	SWITCH FOR MOTOR (Single Phase)
597C2-26	AUTOMATIC CUTOUT 60cy. 3600 R.P.M.
597C2-27	AUTOMATIC CUTOUT 50cy. 3000 R.P.M.
615C1-7	ATTACHMENT PLUG CLAMP
667C1	CONTACT WITH PIN (3 Phase 2 Req'd.)
667C2	TERMINAL SLEEVE WITH CLIP

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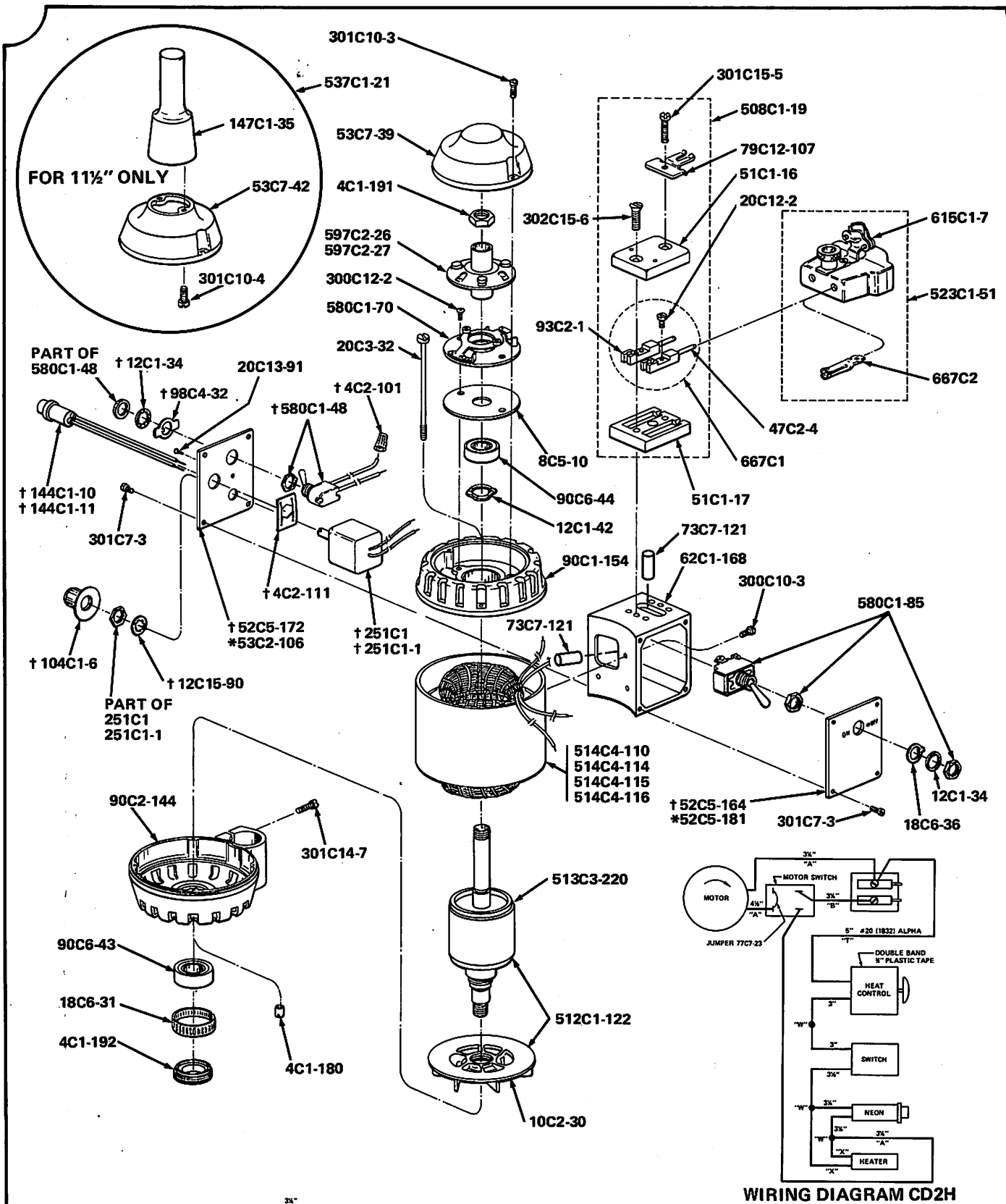
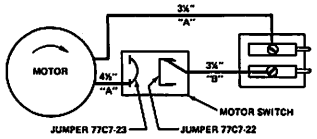
PLEASE SPECIFY
MACHINE TYPE
AND SERIAL NUMBER
WHEN ORDERING PARTS

*PARTS REQUIRED ON CD2 ONLY.
†PARTS REQUIRED ON CD2H ONLY.



WIRING DIAGRAM CD2H



WIRING DIAGRAM CD2

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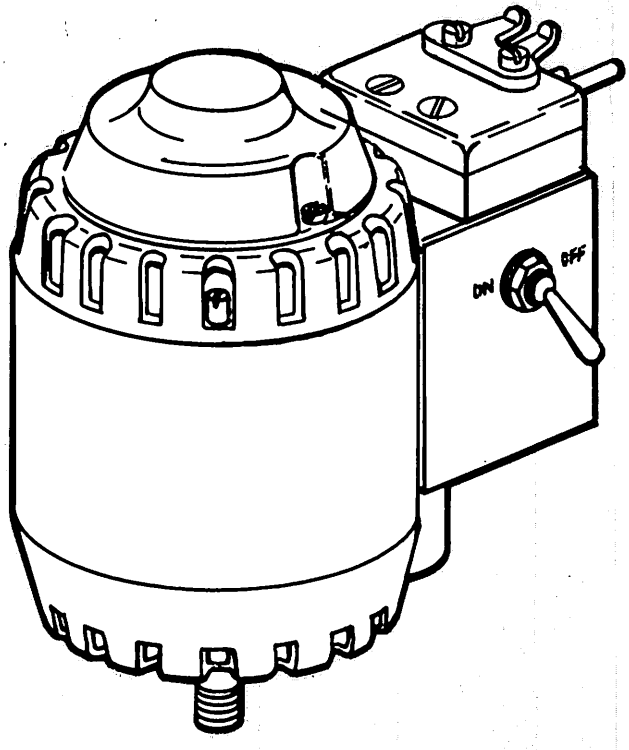
ILLUSTRATED PARTS LIST

THREE PHASE MOTOR ASSEMBLIES



CLOTH DRILL

Part No.	Description
1C4-11	SPACING SLEEVE
4C1-180	NUT (4 Req'd.)
4C1-191	SHAFT LOCK NUT
4C1-192	LOWER BEARING NUT
†4C2-101	WIRE NUT
†4C2-111	SPEED NUT
10C2-30	ROTOR FAN
12C1-34	LOCK WASHER (2 Req'd.)
12C1-42	LOADING SPRING
†12C15-90	LOCK WASHER FOR CONTROL
18C6-31	TOLERANCE RING
18C6-36	LOCATING RING SWITCH
20C3-32	MOTOR SCREW (4 Req'd.)
20C12-2	TERMINAL SCREW (3 Req'd.)
†20C13-91	DRIVE SCREW
47C2-9	TERMINAL CONTACT PIN (3 Req'd.)
51C1-18	TERMINAL BLOCK TOP
51C1-19	TERMINAL BLOCK BOTTOM
†52C5-164	SWITCH BASE
†52C5-172	CONTROL, PILOT LIGHTS, SWITCH BASE
*52C5-181	SWITCH BASE
*53C2-106	SWITCH COVER
53C7-39	REAR BEARING COVER 6" and 8"
53C7-42	REAR BEARING COVER 11-1/2"
62C1-168	SWITCH BRACKET
73C7-121	TUBING INSULATION (2 Req'd.)
79C12-106	GROUND CLIP
90C1-154	UPPER BEARING HOUSING
90C2-144	LOWER BEARING HOUSING
90C6-43	LOWER BALL BEARING
90C6-44	UPPER BALL BEARING
†98C4-32	SWITCH CLIP
†104C1-6	DIAL INDICATOR
†144C1-10	PILOT LIGHT 110V.
†144C1-11	PILOT LIGHT 220V.
147C1-35	EXTENSION FOR COVER 11-1/2"
†251C1	HEAT CONTROL 220V.
†251C1-1	HEAT CONTROL 110V.
300C10-3	SCREW, 6-32 x 5/16 ROUND HEAD (3 Req'd.)
301C7-3	SCREW, 4-36 x 1/4 FILLISTER HEAD (8 Req'd.)
301C10-3	SCREW, 6-32 x 3/8 FILLISTER HEAD (2 Req'd.)
301C10-4	SCREW, 6-32 x 1/2 FILLISTER HEAD (2 Req'd.)
301C14-7	SCREW, 10-24 x 1 FILLISTER HEAD (2 Req'd.)
301C15-12	SCREW, 10-32 x 1-1/8 FILLISTER HEAD (2 Req'd.)
302C15-8	SCREW, 10-32 x 1-1/8 FLAT HEAD (2 Req'd.)
512C1-122	ROTOR WITH FAN
513C3-220	ROTOR WITH SHAFT
514C4-117	STATOR WITH BAND 220V. 60cy. 3600 R.P.M.
514C4-118	STATOR WITH BAND 220V. 50cy. 3000 R.P.M.
†580C1-48	TOGGLE SWITCH
580C1-65	SWITCH FOR MOTOR (Three Phase)
667C1-1	CONTACT WITH PIN (3 Req'd.)

*PARTS REQUIRED ON CD2 ONLY.
†PARTS REQUIRED ON CD2H ONLY.

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PLEASE SPECIFY
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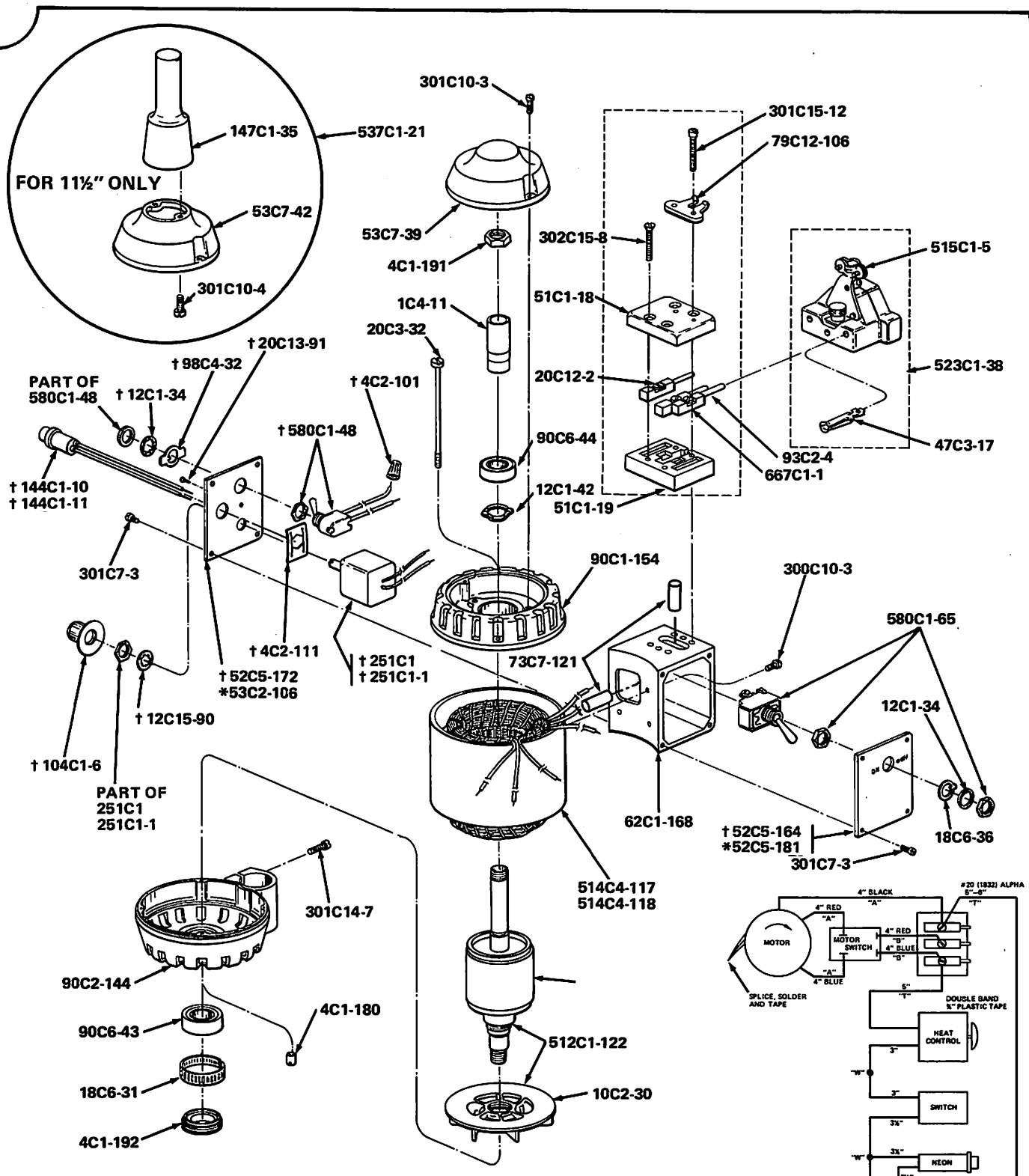
WHEN ORDERING PARTS



WIRING DIAGRAM CD2H

WIRING DIAGRAM CD2

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ILLUSTRATED PARTS LIST

CLOTH DRILL

PLEASE SPECIFY
MACHINE TYPE
AND SERIAL NUMBER
WHEN ORDERING PARTS

STANDARD, AND BASE PLATE ASSEMBLY

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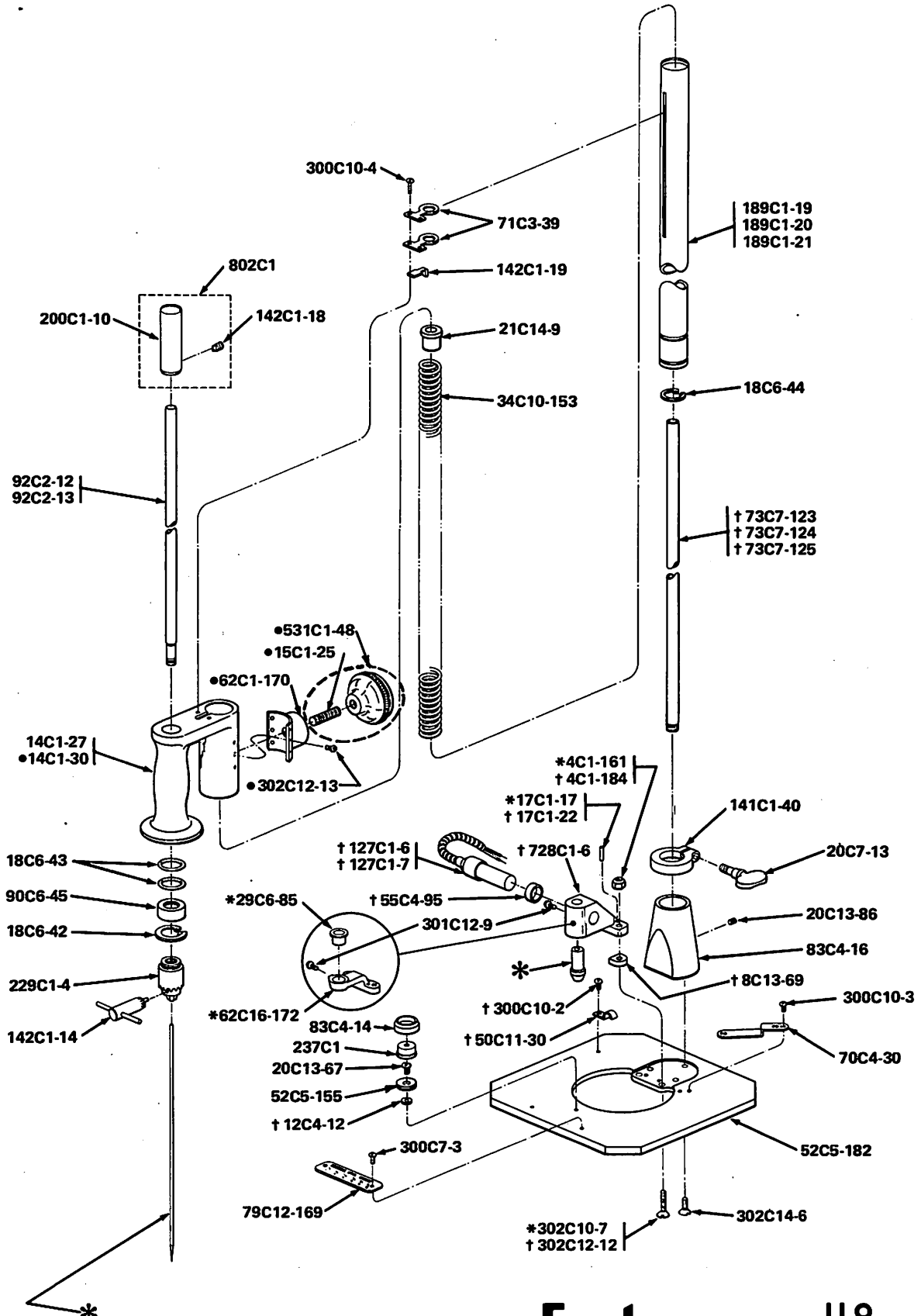
BUFFALO, NEW YORK 14203

Part No.	Description
*4C1-161	FLEX NUT (2 Req'd.)
†4C1-184	STOP NUT (2 Req'd.)
†8C13-69	HEAT INSULATOR (2 Req'd.)
†12C4-12	NYLON WASHER
14C1-27	HANDLE GRIP
•14C1-30	HANDLE GRIP
•15C1-25	MACHINE HANDLE STUD
*17C1-17	DOWEL PIN (2 Req'd.)
†17C1-22	DOWEL PIN (2 Req'd.)
18C6-42	RETAINING RING
18C6-43	RUBBER "O" RING (2 Req'd.)
18C6-44	RETAINING RING
20C7-13	THUMB SCREW
20C13-67	SCREW, 6-32 x 5/16 ROUND HEAD NYLON
20C13-86	SET SCREW (2 Req'd.)
21C14-9	BUSHING FOR SPRING
*29C6-85	ADAPTOR FOR BUSHING
34C10-153	SPRING FOR POST
†50C11-30	CABLE CLAMP
52C5-155	LEVEL BASE
52C5-182	BASE PLATE
†55C4-95	SPACER FOR HEATING ELEMENT
•62C1-170	HANDLE BRACKET
*62C16-172	LOWER GUIDE BRACKET
70C4-30	LOCATOR GUIDE
71C3-39	SPRING RETAINER (2 Req'd.)
†73C7-123	8" TUBE FOR LEAD WIRE
†73C7-124	6" TUBE FOR LEAD WIRE
†73C7-125	11-1/2" TUBE FOR LEAD WIRE
79C12-169	DRILL SIZE PLATE
83C4-14	LEVEL FLANGE
83C4-16	FLANGE FOR POST
90C6-45	SPINDLE BALL BEARING
92C2-12	SPINDLE 6" and 8"
92C2-13	SPINDLE 11-1/2"
†127C1-6	HEAT ELEMENT 110V.
†127C1-7	HEAT ELEMENT 220V.
141C1-40	GAUGE
142C1-14	KEY FOR JACOBS CHUCK
142C1-18	KEY FOR DRIVER
142C1-19	KEY FOR HANDLE
189C1-19	8" POST
189C1-20	6" POST
189C1-21	11-1/2" POST
200C1-10	DRIVER ONLY
229C1-4	JACOBS CHUCK
237C1	BULLSEYE VIAL
300C7-3	SCREW, 4-36 x 1/4 ROUND HEAD (2 Req'd.)
†300C10-2	SCREW, 6-32 x 1/4 ROUND HEAD
300C10-3	SCREW, 6-32 x 5/16 ROUND HEAD (3 Req'd.)
300C10-4	SCREW, 6-32 x 3/8 ROUND HEAD (2 Req'd.)
•302C12-13	SCREW, 8-32 x 3/8 FLAT HEAD (6 Req'd.)
†301C12-9	SCREW, 8-32 x 5/16 FILLISTER HD. (Stainless Steel)
*302C10-7	SCREW, 6-32 x 5/8 FLAT HEAD (2 Req'd.)
†302C12-12	SCREW, 8-32 x 1 FLAT HEAD (2 Req'd.)
302C14-6	SCREW, 10-24 x 5/16 FLAT HEAD (3 Req'd.)
•531C1-48	MACHINE HANDLE
†728C1-6	GUIDE HEAT BRACKET
802C1	DRIVER WITH KEY

* PARTS REQUIRED ON CD2 AND CD3 ONLY.
† PARTS REQUIRED ON CD2H AND CD3H ONLY.
• PARTS REQUIRED ON CD3 AND CD3H ONLY.



SEE PAGE 3
FOR DRILL SELECTION TABLES
AND DRILL GUIDE BUSHING TABLE

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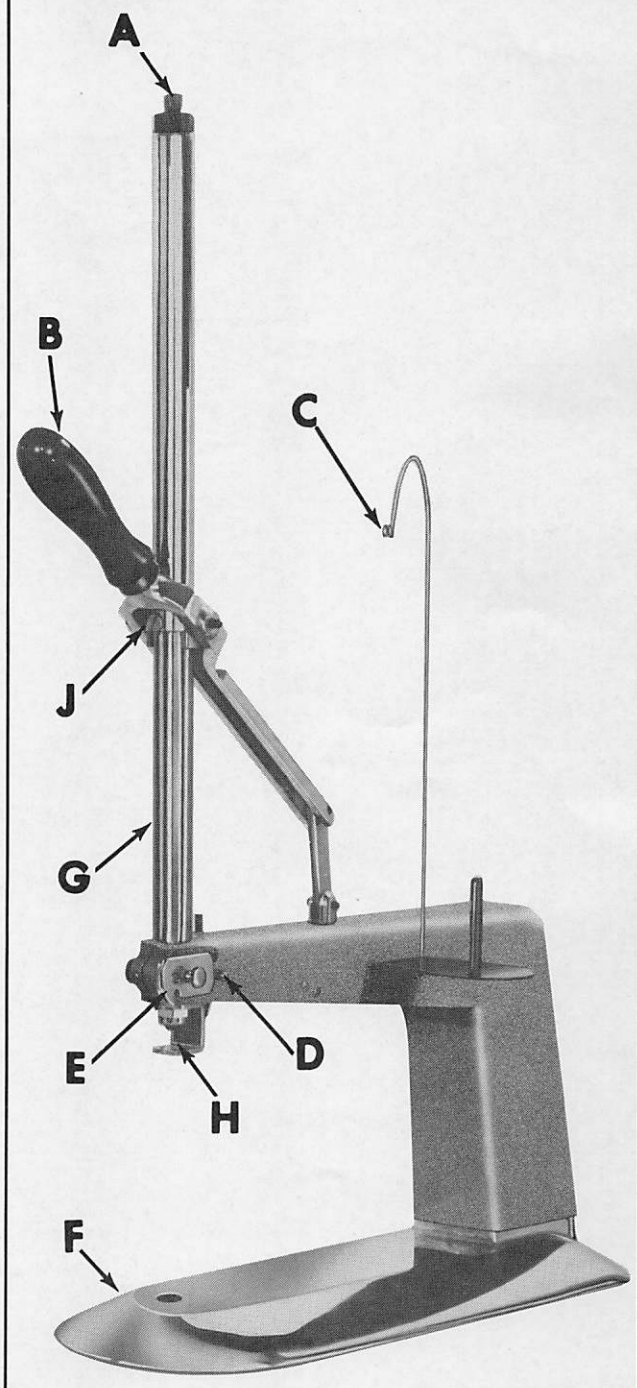
BUFFALO, NEW YORK 14203

EASTMAN'S
TYPE TM
THREADMARKER
OPERATING INSTRUCTIONS



FOR CARE AND OPERATION

The threadmarking machines are intended to be used for marking pockets, etc., on lays of material such as woolens where the electric drilling machines are not practicable due to the holes closing immediately after the drill is removed.

THREADING THE MACHINE

Thread from spool through thread eye "C" to the thread hole "D" in the rear of the thread cutter; then to the needle eye "H". Thread needle from the spool side of the machine.

OPERATION OF THE MACHINE

After the material has been cut and marked with chalk, slide the front beveled portion "F" on the threadmarker beneath the lay. Press looper locking latch (located on opposite side) down to set the looper. The operation of setting the looper must be performed before every needle stroke. Pull handle "B" down until stop "J" makes contact with the threadmarker housing. This action releases the looper contained in the base of the machine. By slowly retracting the needle a loop is formed and caught by the looper. The end of the thread is held firmly by the looper and as the machine is withdrawn from the lay, about fifteen to eighteen inches of thread should be stripped from the spool and cut off with the thread cutter "E". This operation is continued until all marked positions have been completed. Each layer of cloth is clipped with shears between each layer, the operator leaving about ¾ to 1 inch of thread in each layer of cloth if the thread is clipped too short, it may fall out in subsequent handling.

TO REMOVE NEEDLE

Remove knurled cap "A" from top of machine—turn counter-clockwise to remove. Lift needle rod and needle assembly clear from the machine. Loosen bottom set screw and remove the needle from rod. When replacing needle and re-assembling needle rod in machine, refer to instruction sheet #672C1-110.

OILING

Oil rod and tube at "G" twice a week.

THREAD

It is suggested that a good grade of button hole gimp be used. It can readily be understood that, if the thread is too weak, forcing the needle through such a great thickness of material will result in thread breakage.

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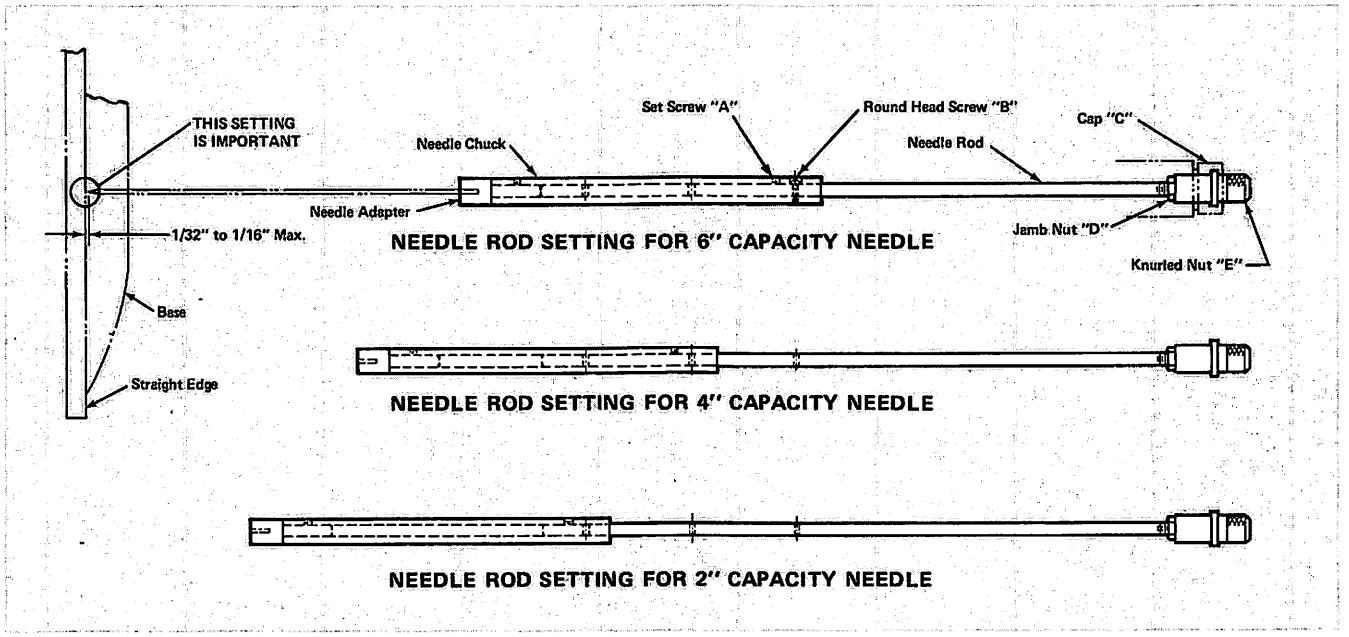
EASTMAN'S THREADMARKER

INSTRUCTIONS FOR SETTING ADJUSTABLE NEEDLE ROD



TO CHANGE THE SETTING, loosen Allen Set Screw "A" and remove Round Head Screw "B". Then slide the Needle Chuck to the correct new setting for the Needle you wish to install; replace Round Head Screw "B" and tighten Allen Set Screw "A".

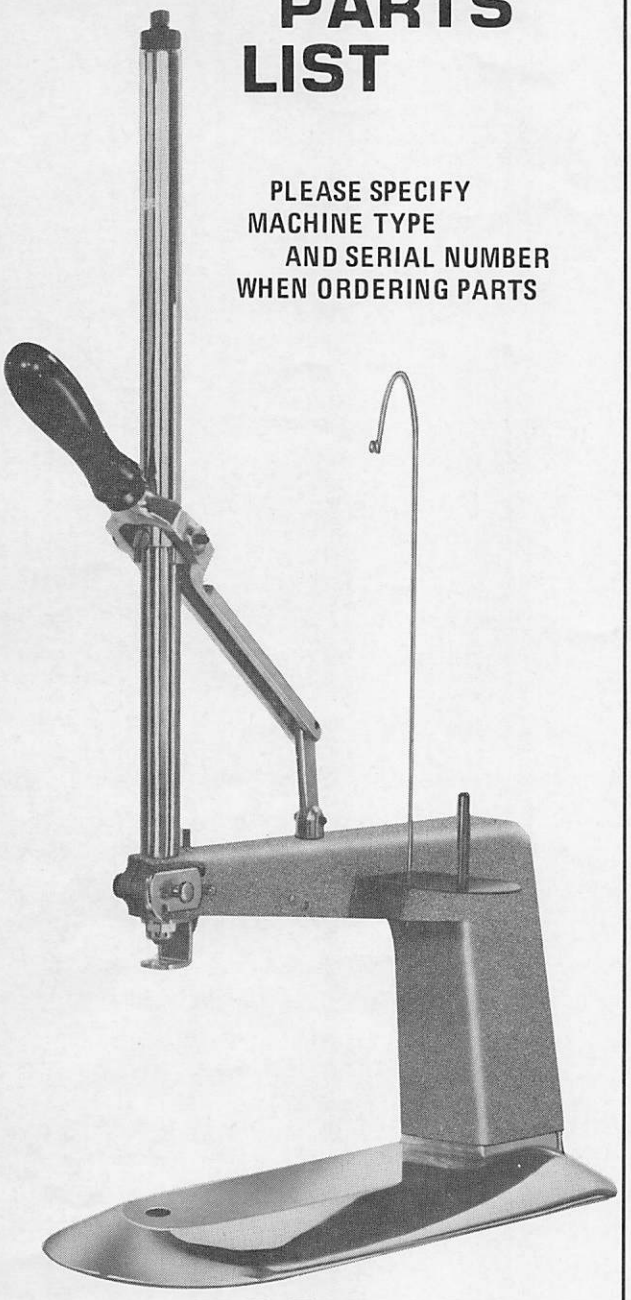
CHECK LENGTH OF NEEDLE AFTER ASSEMBLY IN THREADMARKER. Due to slight variations in lengths of some Needles, it may be necessary to make a finer adjustment of the length of the Needle Rod. Pull Threadmarker Handle down to its lowest position. Hold Handle in this position and tilt Threadmarker back so that a straight edge can be placed across the bottom of Base where Needle extends thru Base. Needle should come within 1/32" to 1/16" of touching straight edge. If adjustment is necessary remove Cap "C" and remove Needle Rod Assembly. Loosen Jamb Nut "D", turn Knurled Nut "E" to lengthen or shorten as needed. Re-tighten Jamb Nut "D", re-assemble Needle Rod in machine and check again.

WHEN CHANGING TO DIFFERENT DIAMETER NEEDLE, it is necessary to change the Needle Adapter and the Needle Bushing (located in Work Clamp Nut) for best results. See Chart below for Part Numbers. NOTE: Needles are plain Needles without brass head.

Capacity	Needle	Needle Diameter	Bushing	Adapter	Needle Length	Needle Point
6"	228C1-11	.078	21C13-50	29C6-104	7-7/8	Triangular
2"	228C1-13	.063	21C13-49	29C6-103	3-5/8	Taper
4"	228C1-15	.063	21C13-49	29C6-103	5-13/16	Taper
2"	228C1-16	.052	21C13-48	29C6-102	3-5/8	Taper
6"	228C1-18	.078	21C13-50	29C6-104	7-7/8	Taper

ILLUSTRATED PARTS LIST

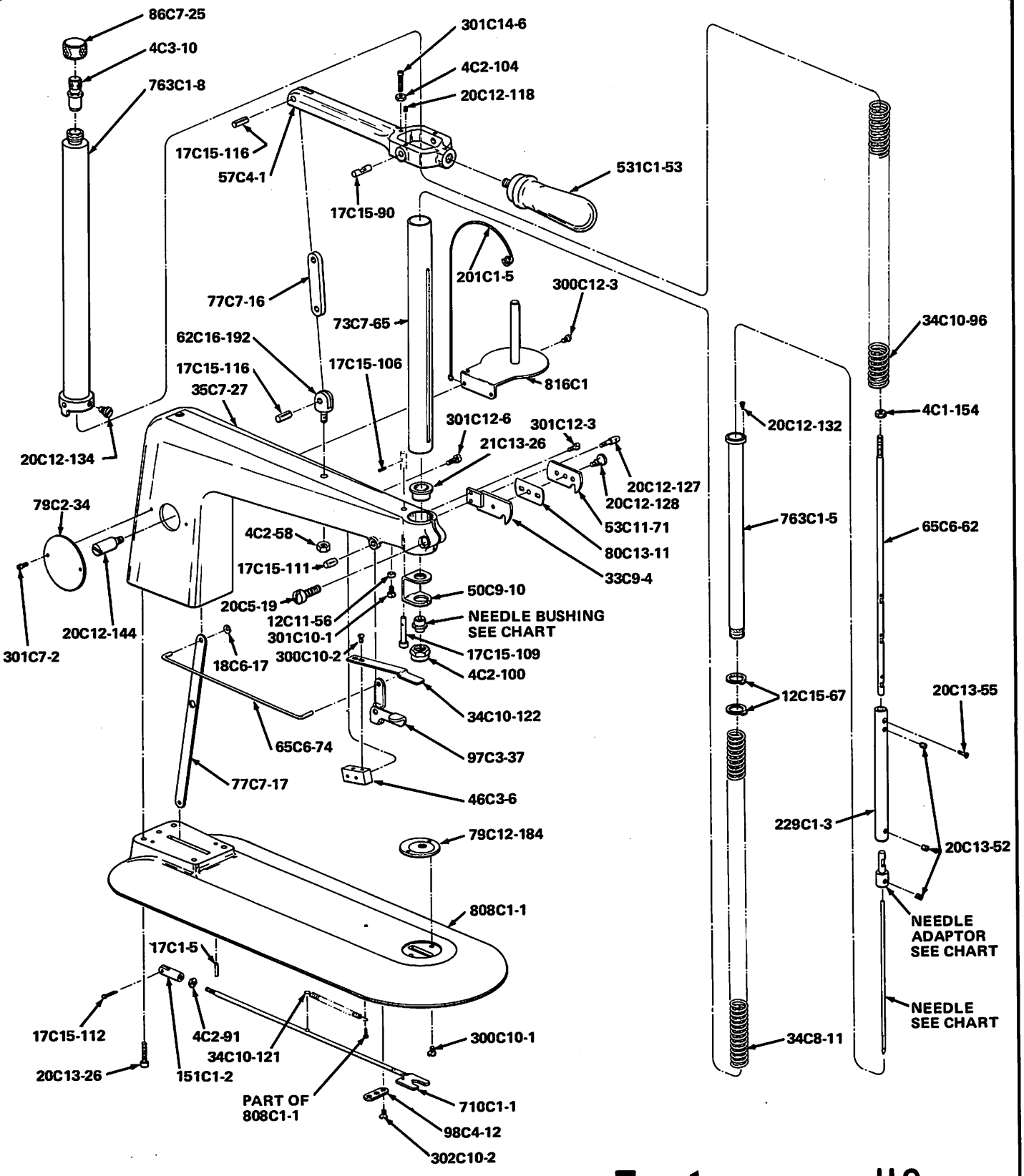
PLEASE SPECIFY
MACHINE TYPE
AND SERIAL NUMBER
WHEN ORDERING PARTS



EASTMAN'S
TYPE TM
THREADMARKER

Eastman machine COMPANY
779 WASHINGTON STREET
BUFFALO, NEW YORK 14203

Part No.	Description
4C1-154	NEEDLE ROD JAM NUT
4C2-58	NUT, HEX 1/4 x 20
4C2-91	NUT, HEX 10-32
4C2-100	WORK CLAMP NUT
4C2-104	NUT, HEX 10-24
4C3-10	NEEDLE ROD ADJUSTING NUT
12C11-56	WASHER SPACER (2 Req'd.)
12C15-67	WORK CLAMP LOCATING WASHER (2 Req'd.)
17C1-5	DOWEL PIN
17C15-90	HANDLE LEVER BEARING PIN (2 Req'd.)
17C15-106	ROLL PIN
17C15-109	RELEASE PIN
17C15-111	LOOPER LOCKING LATCH PIN
17C15-112	COTTER PIN
17C15-116	PIVOT PIN (2 Req'd.)
18C6-17	SNAP RING (2 Req'd.)
20C5-19	CLAMP SCREW, ARM
20C12-118	SCREW, ALLEN SET 10-32 x 1/4 (2 Req'd.)
20C12-127	CUTTER HOLDER THREAD GUIDE SCREW
20C12-128	COVER SCREW
20C12-132	WORK CLAMP LOCATING SCREW
20C12-134	HANDLE LEVER TUBE LOCK SCREW
20C12-144	LOOPER LINK SCREW
20C13-26	SCREW, SOCKET HD. CAP 5/16-18 x 1 (4 Req'd.)
20C13-52	SCREW, ALLEN SET 10-32 x 1/8 (3 Req'd.)
20C13-55	SCREW, 3-48 x 1/2 ROUND HEAD
21C13-26	GUIDE BUSHING
33C9-4	CUTTER HOLDER
34C8-11	WORK CLAMP SPRING
34C10-96	NEEDLE LEVER TUBE SPRING
34C10-121	LOOPER SPRING
34C10-122	LOOPER LATCH SPRING
35C7-27	THREAD MARKER ARM
46C3-6	SPRING BLOCK
50C9-10	WORK CLAMP
53C11-71	CUTTER HOLDER COVER
57C4-1	HANDLE LEVER
62C16-192	HINGE BRACKET
65C6-62	NEEDLE ROD
65C6-74	LATCH ROD
73C7-65	SLOTTED STEEL TUBE
77C7-16	ARM AND HANDLE LEVER LINK
77C7-17	LOOPER LINK
79C2-34	NUMBER PLATE
79C12-184	NEEDLE PLATE
80C13-11	THREAD CUTTER KNIFE
86C7-25	CAP
97C3-37	LOOPER LOCKING LATCH
98C4-12	LOOPER ASSEMBLY CLIP
151C1-2	LINK AND LOOPER COUPLING
201C1-5	THREAD EYE
229C1-3	NEEDLE CHUCK
300C10-1	SCREW, 6-32 x 3/16 ROUND HEAD (2 Req'd.)
300C10-2	SCREW, 6-32 x 1/4 ROUND HEAD (2 Req'd.)
300C12-3	SCREW, 8-32 x 3/8 ROUND HEAD (2 Req'd.)
301C7-2	SCREW, 4-36 x 3/16 FILLISTER HEAD (2 Req'd.)
301C10-1	SCREW, 6-32 x 1/4 FILLISTER HEAD
301C12-3	SCREW, 8-32 x 3/8 FILLISTER HEAD
301C12-6	SCREW, 8-32 x 3/4 FILLISTER HEAD (2 Req'd.)
301C14-6	SCREW, 10-24 x 7/8 FILLISTER HEAD
302C10-2	SCREW, 6-32 x 1/4 FLAT HEAD (2 Req'd.)
531C1-53	OPERATING HANDLE
710C1-1	LOOPER ASSEMBLY
763C1-5	WORK CLAMP TUBE AND HEAD
763C1-8	HANDLE LEVER TUBE ASSEMBLY
808C1-1	THREAD MARKER BASE
816C1	SPOOL HOLDING ASSEMBLY



Eastman machine
COMPANY
779 WASHINGTON STREET
BUFFALO, NEW YORK 14203

ILLUSTRATED PARTS LIST

PLEASE SPECIFY
MACHINE TYPE
AND SERIAL NUMBER
WHEN ORDERING PARTS

EASTMAN'S
TYPE HHN
HOT NOTCHER

*PARTS REQUIRED FOR 8" ONLY
†PARTS REQUIRED FOR 10" ONLY

Part No.	Description
4C1-111	LOCK NUT
4C2-83	HEX NUT, 8-32 (2 Req'd.)
4C2-111	SPEED NUT
8C13-63	INSULATION, CONTROL BLOCK
8C13-67	INSULATION, MARKING WIRE
12C1-34	LOCK WASHER (2 Req'd.)
12C1-35	LOCK WASHER (4 Req'd.)
12C1-36	LOCK WASHER (2 Req'd.)
12C1-37	LOCK WASHER (2 Req'd.)
12C10-2	WASHER
*12C11-70	SPACER WASHER (6 Req'd.)
12C15-84	SPRING GUIDE WASHER
17C15-123	ROLL PIN
20C12-2	TERMINAL SCREW (Single Phase 2 Req'd.) TERMINAL SCREW (Three Phase 3 Req'd.)
20C13-14	SCREW, CAP, 8-32 x 3/8 SOCKET HEAD (3 Req'd.)
20C13-29	SCREW, CAP, 6-32 x 3/8 SOCKET HEAD (2 Req'd.)
20C13-51	SCREW, 8-32 x 3/16 TRUSS HEAD STAINLESS STEEL (2 Req'd. 8" and 4 Req'd. 10")
20C13-79	SCREW, 10-24 x 3/8 ROUND HD. NYLON (2 Req'd.)
21C2-12	WIRE INSULATION BUSHING
29C6-67	TERMINAL BLOCK ADAPTOR (Three Phase)
34C10-132	WIRE STRAIGHTENER SPRING
46C3-7	CONTACT BLOCK
47C2-4	TERMINAL PIN (Two Phase 2 Req'd.)
47C2-9	TERMINAL PIN (Three Phase 3 Req'd.)
47C3-17	TERMINAL SLEEVE (Three Phase 3 Req'd.)
*48C5	MARKING WIRE
†48C5-2	MARKING WIRE
51C1-16	TERMINAL BLOCK TOP (Single Phase)
51C1-17	TERMINAL BLOCK BOTTOM (Single Phase)
51C1-18	TERMINAL BLOCK TOP (Three Phase)
51C1-19	TERMINAL BLOCK BOTTOM (Three Phase)
62C16-208	TRANSFORMER BRACKET (2 Req'd.)
73C7-104	VINYLGLAS TUBING
73C7-106	SHRINK TUBING
79C1-77	NAME PLATE
79C12-106	GROUND CLIP (Three Phase)
79C12-107	GROUND CLIP (Single Phase)
79C12-209	BASE PLATE
79C12-210	PLATE GAUGE SUPPORT
91C4-18	MARKING RIVET
93C2-1	TERMINAL CONTACT BLOCK (Single Phase 2 Req'd.)
93C2-4	TERMINAL CONTACT BLOCK (Three Phase 3 Req'd.)
95C5-1	WRENCH, 3/32 ALLEN HEX
95C5-5	WRENCH, 7/64 ALLEN HEX
95C5-6	WRENCH, 9/64 ALLEN HEX
98C4-32	SWITCH CLIP (2 Req'd.)
104C1-4	INDICATOR DIAL
119C4-27	WIRE SUPPORT
*122C1-5	HOUSING
†122C1-9	HOUSING
*141C1-37	GAUGE BAR (2 Req'd.)
†141C1-39	GAUGE BAR (2 Req'd.)
142C1-17	KEY CONTACT BLOCK
144C1-10	PILOT LIGHT 110V.
144C1-11	PILOT LIGHT 220V.
199C1-16	LUG HIGH HEAT
199C1-17	LUG COOL
300C7-2	SCREW, 4-36 x 3/16 ROUND HD. (4 Req'd.)
300C12-13	SCREW, 8-32 x 5/16 ROUND HD. (3 Req'd.)
300C12-15	SCREW, 8-32 x 2-1/4 ROUND HD. (2 Req'd.)
†301C12-4	SCREW, 8-32 x 1/2 FILLISTER HD. (4 Req'd.)
*301C12-6	SCREW, 8-32 x 3/4 FILLISTER HD. (4 Req'd.)
301C15-5	SCREW, 10-32 x 7/8 FILLISTER HD. (Single Phase)
301C15-9	SCREW, 10-32 x 1-1/2 FILLISTER HD. (Three Phase)
301C15-12	SCREW, 10-32 x 1-1/8 FILLISTER HD. (Three Phase)
302C12-5	SCREW, 8-32 x 1/2 FLAT HEAD (4 Req'd.)
302C15-6	SCREW, 10-32 x 7/8 FLAT HEAD (Single Phase)
302C15-7	SCREW, 10-32 x 1 FLAT HEAD (Three Phase)
302C15-11	SCREW, 10-32 x 1-1/2 FLAT HEAD (Three Phase)
*304C12-1	SCREW, 8-32 x 1/2 TRUSS HEAD (2 Req'd.)
508C1-22	TERMINAL BLOCK COMPLETE (Three Phase)
508C1-19	TERMINAL BLOCK COMPLETE (Single Phase)
523C1-38	ATTACHMENT PLUG COMPLETE (Three Phase)
523C1-51	ATTACHMENT PLUG COMPLETE (Single Phase)
531C1-53	OPERATING HANDLE, LONG
580C1-69	HEATER SWITCH
580C1-72	SWITCH
615C1-5	ATTACHMENT PLUG CLAMP (Three Phase)
615C1-7	ATTACHMENT PLUG CLAMP (Single Phase)
667C1	CONTACT WITH PIN (Single Phase 2 Req'd.)
667C1-1	CONTACT WITH PIN (Three Phase 3 Req'd.)
667C2	TERMINAL SLEEVE WITH CLIP (Single Phase 2 Req'd.)
*819C1-3	TRANSFORMER 110V. 60cy.
†819C1-4	TRANSFORMER 110V. 60cy.
*819C1-5	TRANSFORMER 220V. 60cy.
*819C1-6	TRANSFORMER 220V. 50cy.
†819C1-7	TRANSFORMER 220V. 60cy.
†819C1-8	TRANSFORMER 220V. 50cy.

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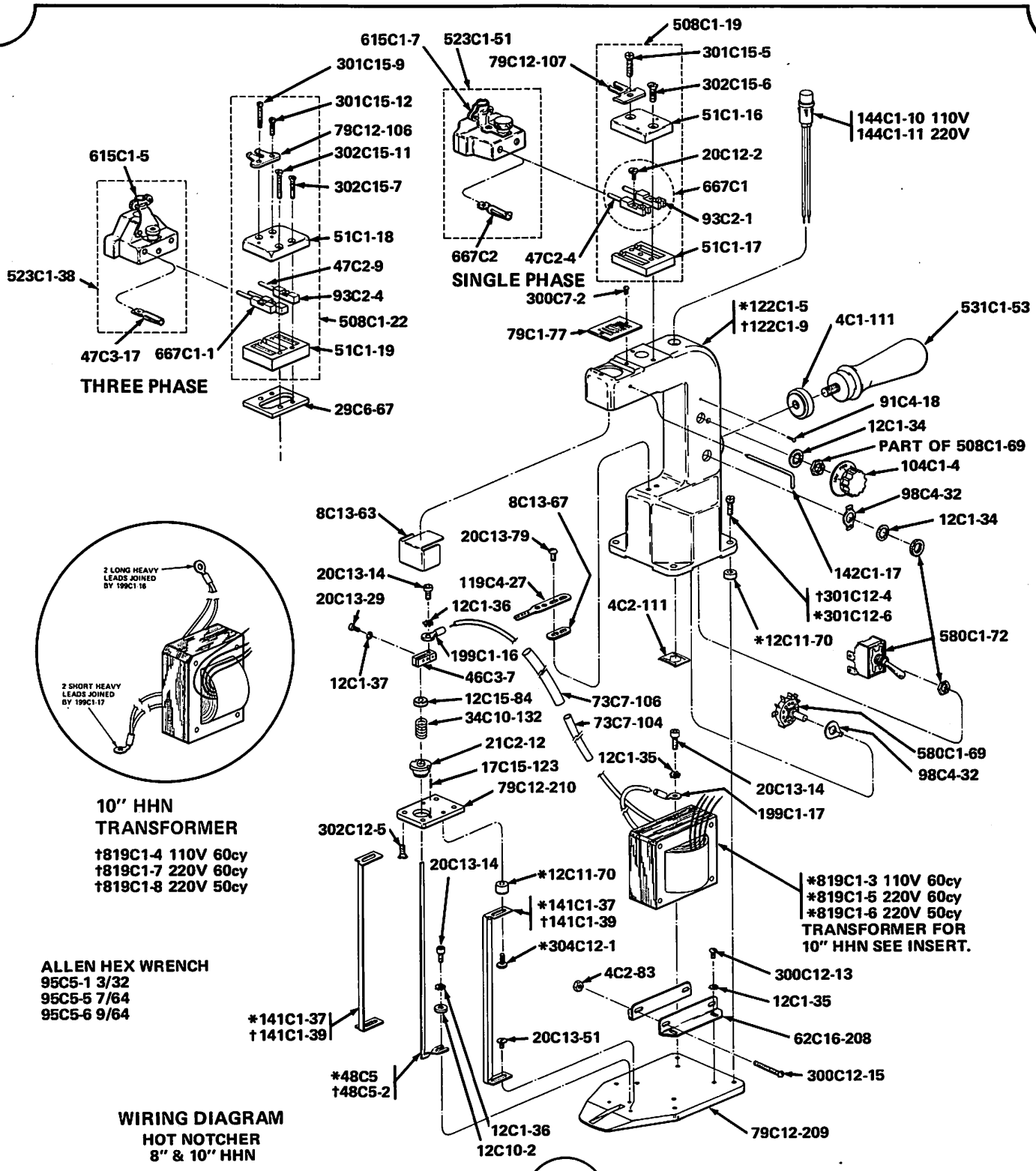

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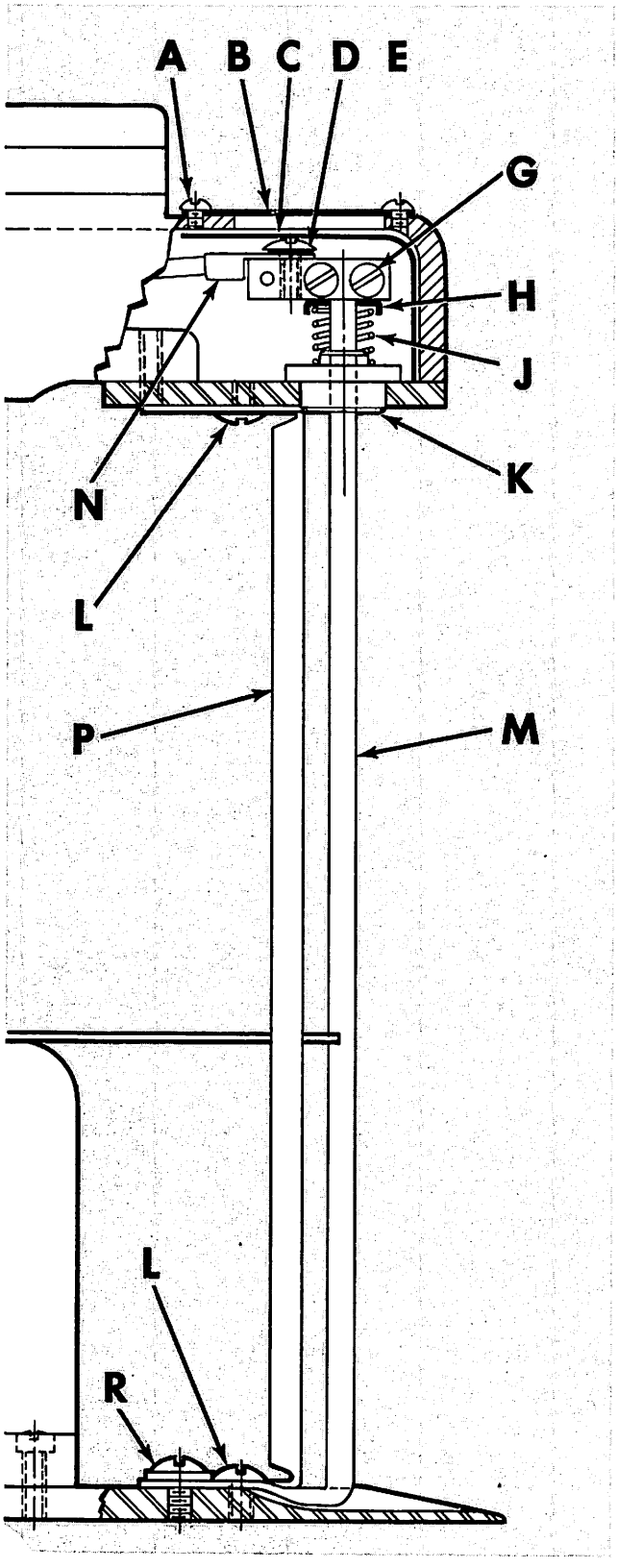
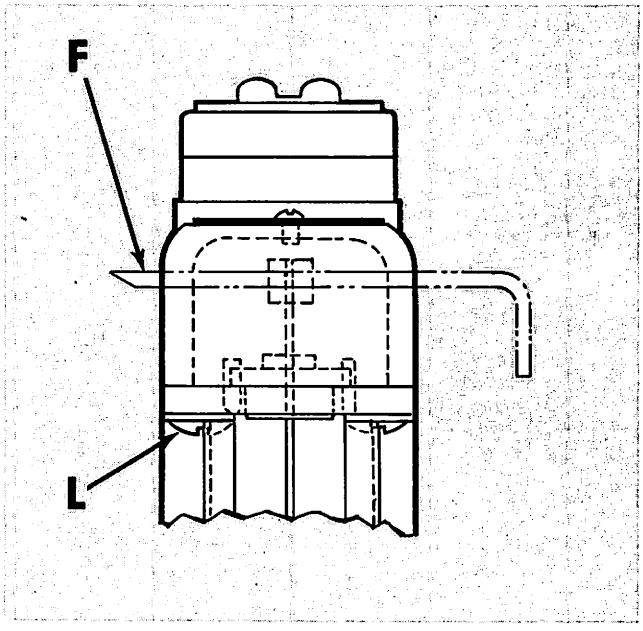
EASTMAN'S HOT NOTCHER

OPERATING INSTRUCTIONS





THIS APPLIES TO SERIAL #253 AND ABOVE

FOR CHANGING MARKING WIRE

1. Remove two (2) Screws – "A".
2. Remove Name Plate – "B".
3. Remove Insulation – "C".
4. Loosen Screw – "R".
5. Disengage Wire "M" from Screw "R".
6. Insert Key "F" thru hole in Housing and hole in Block "E". This is to prevent the twisting of the Marking Wire.
7. Remove Screw "D" from Block "E", so as to disconnect Wire with Lug "N".
8. Remove Key "F" and lift Marking Wire Assembly out of Housing.
9. Loosen Screws "G" and remove Wire "M" from Block "E", Washer "H", Spring "J" and Bushing "K".
10. Exchange Wire and reverse procedure to completion of assembly.

TO ADJUST DEPTH OF MARK

1. Loosen four (4) Screws "L".
2. Adjust two (2) Gauges "P" to correct depth.
3. Check the squareness of Gauges and retighten four (4) Screws "L".

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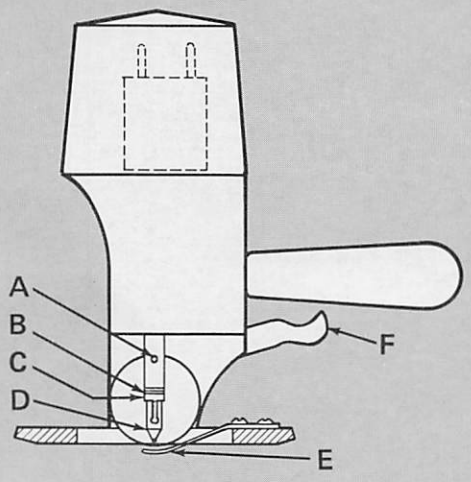
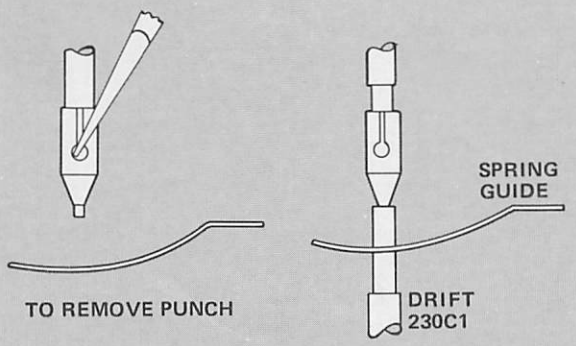
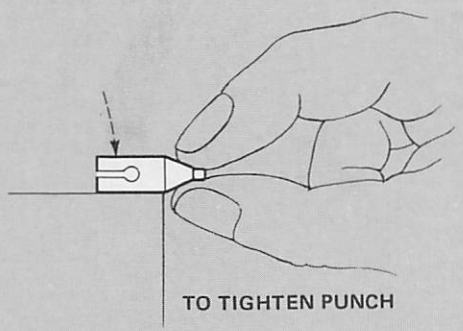
EASTMAN'S TYPE RP PATTERN PERFORATOR



WARNING

Before operating your Perforator, make sure that your electrical current is the same as indicated on the perforating machine.





OPTIONAL SUPPLIES

1 Pattern Duster

2 Marking Powder – available in 5 lb. cans or 50 lb. drums in white, red, blue, yellow and black.

3 25 Ft. Cord – with attachment plug and male connection.

OPERATING INSTRUCTIONS

PREPARATION

Select the proper pattern paper. We recommend 40 to 50 pound kraft paper measuring .005" to .006" thick. If thicker paper is to be used, the Perforator will have to be adjusted for increased power – see Power Adjustment below.

Do not use oiled paper, as it will clog the punch and the perforating powder will stick to the paper and eventually close up the perforated holes.

To prepare the operating surface for perforating, we recommend inlaid linoleum placed on a solid, perfectly flat and smooth table top. Replace the linoleum periodically to insure a clear surface for clean cut perforations.

OPERATION

Your Perforator is ready to go as soon as you connect the attachment plug; it does not have an "on–off" switch. It will start perforating instantly as you move it forward or backward over the table top.

To push the Perforator into position to start perforating, press the Free-Wheeling Lever "F" inward towards the Operating Handle with your index finger.

To start perforating, push the same Lever "F" downward with your index finger and release it. This action will cause the Perforator to make a single punch, or a starting point.

After making the initial punch, push the Perforator forward or backward along the line to be perforated as required. Use the Line Guide "E" to follow the line.

After the pattern has been completely perforated and readied for use by checking to insure that all the perforations are clear, place it on top of the material to be marked and use weights on top of the pattern to prevent it from shifting. Then, using the Pattern Duster, dust the pattern lightly with Pattern Powder. This will leave a line on top of the material ready to be cut. Do not over-dust the pattern, as this will distort the cutting line and make it difficult to follow when cutting.

REPLACING PUNCHES

Your Perforator will make four perforations to the inch. There are various size Punches available for different operations. 1/16" diameter Punch is the standard size furnished with your machine, but 3/32" diameter, Pin Point, and Dash or Spade Punches are available on special order.

To remove a Punch, insert a small Drift in the hole in the Punch, as shown, and tap the Drift lightly until it comes loose.

To install a new Punch, place the Punch on the end of the Plunger Shaft, and place Drift 230C1 over the tip of the Punch. Then gently tap the Drift to seat the Punch on the Plunger Shaft.

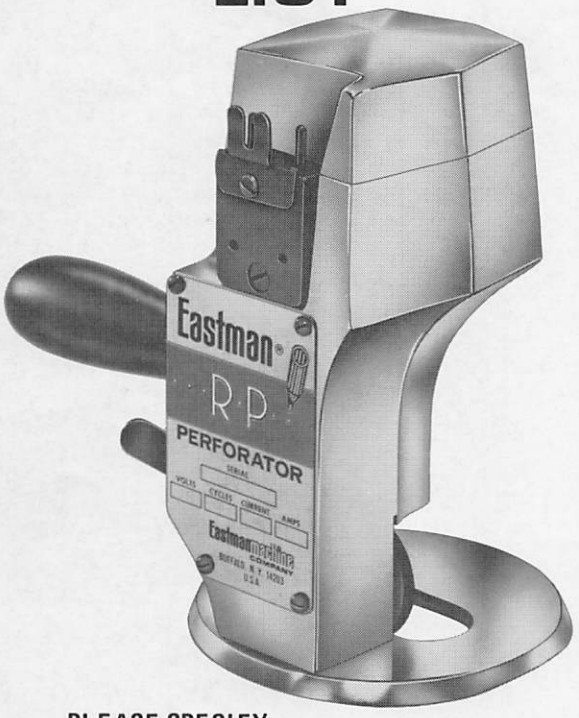
If the Punch becomes loose on the Plunger Shaft, remove the Punch and tap it lightly on the side, as shown, to reduce its size and cause it to fit more tightly on the Plunger Shaft.

POWER ADJUSTMENT

To increase or decrease power, make sure the line cord is disconnected, and then remove the Punch as outlined and insert a small Drift Pin in Hole "A" as shown, to prevent the Plunger from turning. Then unscrew Plunger Tip "C".

To increase the power, remove Spacers "B" as required. To decrease the power, add Spacers "B" as required. Put Plunger Tip "C" back on Plunger Shaft and put Punch back on. Test the Perforator for penetration and repeat the procedure as needed until a clean hole is being produced.

ILLUSTRATED PARTS LIST



PLEASE SPECIFY
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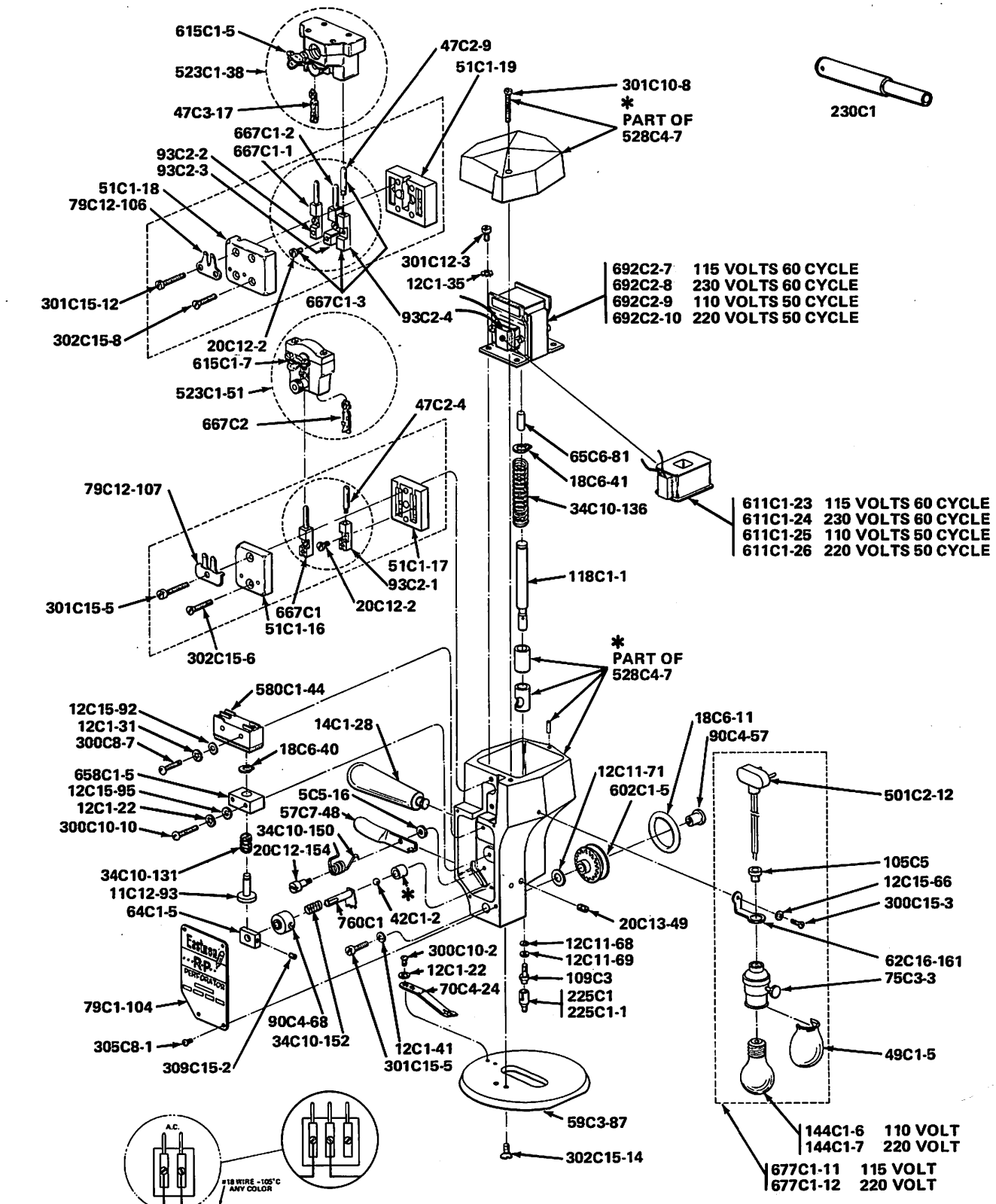
EASTMAN'S TYPE RP PATTERN PERFORATOR

Part No.	Description
5C5-16	SPACING WASHER
11C12-93	SWITCH ACTUATOR SHAFT
12C1-22	LOCK WASHER (4 Req'd.)
12C1-31	LOCK WASHER (2 Req'd.)
12C1-35	LOCK WASHER (4 Req'd.)
12C1-41	LOCK WASHER
12C11-68	SPACING WASHER .005 THICK (2 Req'd.)
12C11-69	SPACING WASHER .010 THICK
12C11-71	SPACING WASHER
12C15-66	FIBRE WASHER
12C15-92	FLAT WASHER NO. 4 (2 Req'd.)
12C15-95	FLAT WASHER NO. 6 (2 Req'd.)
14C1-28	HANDLE
18C6-11	DRIVER RING (Rubber)
18C6-40	RETAINING RING
18C6-41	RETAINING RING
20C12-2	TERMINAL SCREW (Single Phase 2 Req'd.) TERMINAL SCREW (Three Phase 3 Req'd.)
20C12-154	SHOULDER SCREW
20C13-49	SCREW, 10-32 x 1/4 SOCKET SET CUP POINT
34C10-131	COMPRESSION SPRING
34C10-136	PLUNGER ROD SPRING
34C10-150	CONTROL LEVER SPRING
34C10-152	CAM SPRING
42C1-2	STEEL BALL 1/4" DIAMETER
47C2-4	TERMINAL PIN (Single Phase 2 Req'd.)
47C2-9	TERMINAL PIN (Three Phase 3 Req'd.)
47C3-17	TERMINAL SLEEVE (Three Phase)
49C1-5	LAMP SHADE
51C1-16	TERMINAL BLOCK TOP (Single Phase)
51C1-17	TERMINAL BLOCK BOTTOM (Single Phase)
51C1-18	TERMINAL BLOCK TOP (Three Phase)
51C1-19	TERMINAL BLOCK BOTTOM (Three Phase)
57C7-48	CONTROL LEVER
59C3-87	FLAT PLATE
62C16-161	LAMP BRACKET
64C1-5	SWITCH ACTUATOR CAM
65C6-81	FLOATING ROD
70C4-24	GUIDE
75C3-3	LAMP SOCKET
79C1-104	NUMBER PLATE
79C12-106	GROUND CLIP (Three Phase)
79C12-107	GROUND CLIP (Single Phase)
90C4-57	BEARING FOR PULLEY
90C4-68	CAM ASSEMBLY BEARING
93C2-1	TERMINAL CONTACT (Single Phase 2 Req'd.)
93C2-2	TERMINAL CONTACT (Three Phase) (1 Req'd. with Lamp Assembly)
93C2-3	TERMINAL CONTACT (Three Phase) (1 Req'd. with Lamp Assembly)
93C2-4	TERMINAL CONTACT (Three Phase) (1 Req'd. with Lamp Assembly) (3 Req'd. without Lamp Assembly)
105C5	LAMP NIPPLE
109C3	PLUNGER ROD TIP
118C1-1	PLUNGER ROD
144C1-6	LAMP 110 VOLT
144C1-7	LAMP 220 VOLT
225C1	PUNCH 1/16" DIAMETER
225C1-1	PUNCH 3/32" DIAMETER
230C1	DRIFT PUNCH
300C8-7	SCREW, 4-40 x 1 ROUND HD. (2 Req'd.)
300C10-2	SCREW, 6-32 x 1/4 ROUND HD. (2 Req'd.)
300C10-10	SCREW, 6-32 x 1 ROUND HD. (2 Req'd.)
300C15-3	SCREW, 10-32 x 3/8 ROUND HD.
301C10-8	SCREW, 6-32 x 1-1/4 FILLISTER HD.
301C12-3	SCREW, 8-32 x 3/8 FILLISTER HD. (4 Req'd.)
301C15-5	SCREW, 10-32 x 7/8 FILLISTER HD. (2 Req'd.)
301C15-12	SCREW, 10-32 x 1-1/8 FILLISTER HD. (2 Req'd.)
302C15-6	SCREW, 10-32 x 7/8 FLAT HD.
302C15-8	SCREW, 10-32 x 1-1/8 FLAT HD. (2 Req'd.)
302C15-14	SCREW, 10-32 x 7/16 FLAT HD. (2 Req'd.)
305C8-1	SCREW, 4-40 x 1/4 BINDING HD. (4 Req'd.)
309C15-2	SCREW, 10-32 x 1/4 SOCKET SET FLAT POINT
501C2-12	CONNECTOR BLOCK
523C1-38	ATTACHMENT PLUG (Three Phase)
523C1-51	ATTACHMENT PLUG (Single Phase)
528C4-7	STANDARD AND COVER
580C1-44	SWITCH MICRO
602C1-5	PULLEY AND SPROCKET
611C1-23	COIL 115 VOLTS 60 CYCLE
611C1-24	COIL 230 VOLTS 60 CYCLE
611C1-25	COIL 110 VOLTS 50 CYCLE
611C1-26	COIL 220 VOLTS 50 CYCLE
615C1-5	ATTACHMENT PLUG CLAMP (Three Phase)
615C1-7	ATTACHMENT PLUG CLAMP (Single Phase)
658C1-5	ACTUATOR BEARING BLOCK
667C1	CONTACT WITH PIN (Single Phase 2 Req'd.)
667C1-1	CONTACT WITH PIN (Three Phase) (3 Req'd. without Lamp Assembly) (1 Req'd. with Lamp Assembly)
667C1-2	CONTACT WITH PIN (Three Phase) (1 Req'd. with Lamp Assembly)
667C1-3	CONTACT WITH PIN (Three Phase) (1 Req'd. with Lamp Assembly)
667C2	TERMINAL SLEEVE WITH CLIP (Single Phase 2 Req'd.)
677C1-11	LAMP BRACKET COMPLETE 115 VOLT
677C1-12	LAMP BRACKET COMPLETE 220 VOLT
692C2-7	SOLENOID 115 VOLTS 60 CYCLE
692C2-8	SOLENOID 230 VOLTS 60 CYCLE
692C2-9	SOLENOID 110 VOLTS 50 CYCLE
692C2-10	SOLENOID 220 VOLTS 50 CYCLE
760C1	CAM ASSEMBLY



WIRING DIAGRAM
R.P. PERFORATOR

NOTE: Use Rosin Core Solder Only — Do Not Use Soldering Paste. Do Not Wash. Tin Wire, Then Solder To Switch Lug.

Eastman machine COMPANY
779 WASHINGTON STREET
BUFFALO, NEW YORK 14203

There's an Eastman Round Knife for every cutting requirement!

EASTMAN'S NEW
GUIDED CUT-OFF MACHINE

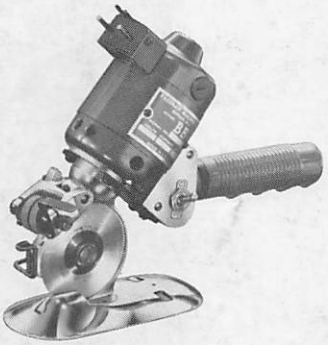
NON-FOULING STANDARD ... makes cutting easier.

FEATHER TOUCH SHARPENER ... adjusts easily to maintain edge!

Six foot (6') track furnished as standard. (Cutting width 64½") Longer or shorter tracks available special order.

CUTS ANY PLIABLE MATERIAL such as cellulose wadding and most other types of Kraft paper and transparent plastic sealed air cushioning. This unique machine will also cut any type of cloth or woven fibre material quickly and easily.

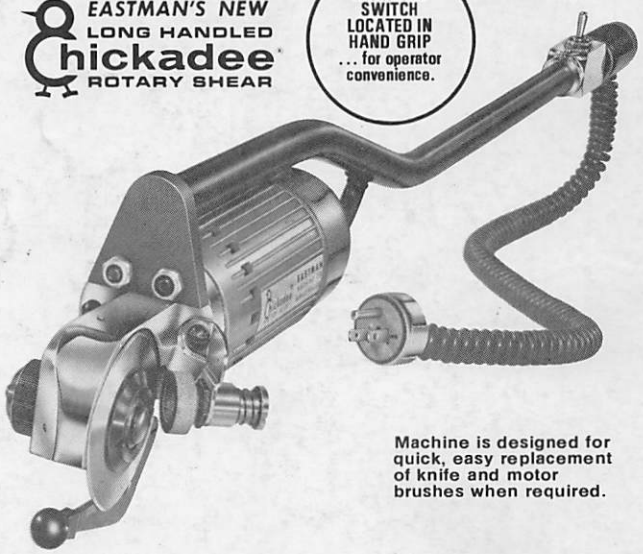
INCREASES WRAP ROOM PRODUCTION Rolled wrap may be quickly and easily cut to any desired length in a fraction of the time required using hand tools.



CLASS BBB Lightweight, heavy duty machine, designed for cutting low lays. Features include a new shear plate for faster, cleaner, snag-free cutting even on the most delicate materials. New plate rollers for more maneuverability and less operator fatigue. 2½" knife (½" cutting capacity).

EASTMAN'S NEW LONG HANDLED Chickadee® ROTARY SHEAR

STARTING SWITCH LOCATED IN HAND GRIP ... for operator convenience.



Machine is designed for quick, easy replacement of knife and motor brushes when required.

REMOVE DAMAGES WHILE LAYING UP . . . WITH JUST ONE OPERATOR The Eastman Long Handled Chickadee has been specially designed for cutting out damages while laying up — one operator can easily cut from widths 60" and wider. Machine may be carried on lay up machine for convenience.

STOP SQUEEZING HEAVY HAND SHEARS!

Chickadee®
THE HARDY LITTLE BIRD WITH BOUNDLESS ENERGY!

STOP CALLOUSES, CRAMPS AND FATIGUE! Weighs no more than a large pair of shears. Eliminate hand and arm fatigue. Four-sided knives provide scissor action cutting. Automatic sharpener sharpens while cutting shear plate foot and ball for knit goods furnished.

GUARANTEE

We guarantee our machines for six months from date of invoice against defective parts and workmanship and will repair or replace any machine going wrong from these causes when returned to us carrying charges prepaid.

This guarantee does not contemplate making good damage caused by misuse or neglect; and is void if other than genuine Eastman knives, emery wheels and parts are used in the machine.

Eastman machine COMPANY
779 WASHINGTON STREET
BUFFALO, NEW YORK 14203
AREA CODE (716) 856-2200

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