

MAIMIN®

Straight Knife Cutting Machine with Flexi-band Sharpener (Model A)

SABRE 3000 ☐

SABRE 2000 ☐

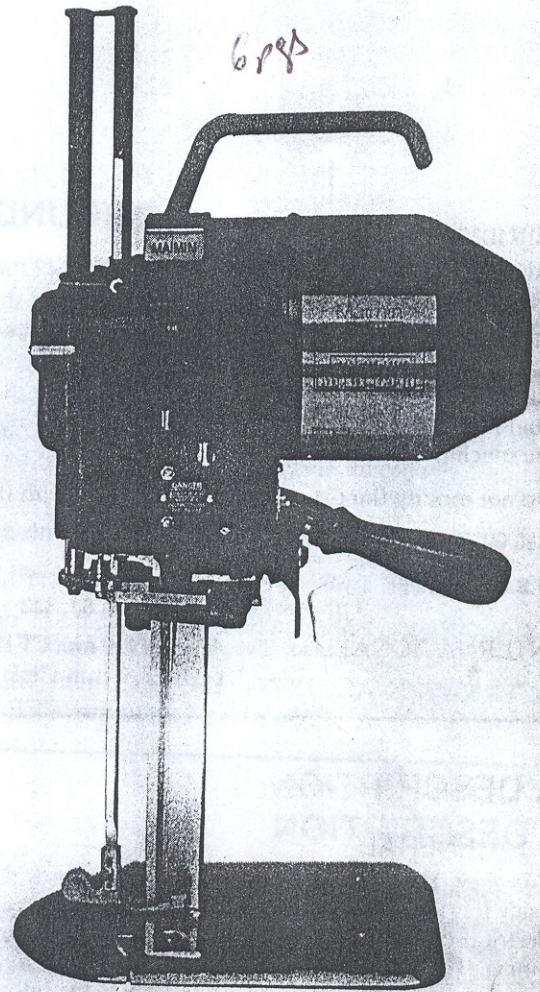
SABRE 1000 ☐

Instruction and Parts List

MACHINE
SERIAL NO.

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Edition 1.4



IMPORTANT SAFETY INSTRUCTIONS

When using your cutting machine, basic safety instructions should always be followed including the following:

This cutting machine is for commercial use only. Read all instructions before using.

DANGER—To reduce the risk of electric shock;

1. Do not install or store this machine in a wet location.

WARNING—To reduce the risk of burns, fire, electric shock, or injury to persons:

1. Use machine only for its intended use as a portable cutting machine.
2. Turn machine to "OFF" (O) before connecting or disconnecting power cord.
3. Connect this machine to a properly grounded outlet only. See Grounding Instructions.
4. Always disconnect electrical connector from machine when not using it, before servicing it, or changing blade.
5. Do not leave machine unattended while it is connected to power outlet.
6. Do not operate machine with a damaged cord or if machine has been dropped. Do not disassemble take to a qualified serviceman for repairs. Incorrect assembly can cause electric shock when the machine is used.
7. Keep hands and fingers away from blade and moving parts.
8. Keep guards in place and in working order.
9. The knife key and other wrenches must be removed from machine before starting motor.
10. Keep ventilation openings of machine free from dust and lint.
11. Keep machine clean and blade sharp for best and safest performance.

Save These Instructions

H. MAIMIN CO., INC., P.O. Box 549 — Route 341, Kent, Connecticut 06757, U.S.A.



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GROUNDING INSTRUCTIONS

This machine must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This machine is equipped with a Ground Shield surrounding the Terminal Pins; this Ground Shield is designed to be used with a Maimin Grounded Connector, part number 458A or 458B. See wiring instructions supplied with the Connector.

DANGER—Improper connection of the Maimin Connector can result in a risk of electric shock. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood or if in doubt as to whether the machine is properly grounded.

Do not modify the Ground Shield provided with this machine.

Use correct wire sizes with the Maimin Grounded Connector.

U.S.A. ONLY: 1 phase: Use AWG16/3 SJ, SJT or SJE
3 phase: Use AWG 16/4 SJ, SJT or SJE

INTERNATIONAL: 1P+N+ : Use 3 x 1, 0 mm CEE (2) 61
3P+ : Use 4 x 1, 0 mm CEE (2) 61

I. DESCRIPTION

1.1 GENERAL

Your new Maimin Sabre straight knife machine is delivered ready for operation. It is merely necessary to connect it to an electrical outlet of the correct voltage, oil it, and then begin cutting. The straight knife machine can be used for cutting various types of materials from a few ply to the full capacity of the machine. However, for best results, it is recommended that the minimum height of the lay be no lower than the bottom of the cutting blade at its highest position. The Presserfoot Leg (Key No. A403) acts as a protective guard for the operator so that it should be down at all times. The Presserfoot should lie lightly on top of the lay when cutting in order to prevent the material from vibrating.

1.2 FLEXIBANDS AVAILABLE

Three different grits of "FlexiBands" are available for sharpening the blade:

- Coarse — For hard or coarse materials
(Part 1450 — Box of 100)
(Part 1457 — Box of 500)
- Medium — For fine woolsens, synthetics and cottons
(Part 1451 — Box of 100)
(Part 1458 — Box of 500)
- Fine — For sheer fabrics, very soft materials
(Part 1452 — Box of 100)
(Part 1459 — Box of 500)

1.3 BLADES AVAILABLE

The blades come in three grades and in different shapes for cutting unusual or difficult materials. The three grades available are:

- ZK** — High Speed Steel...Most popular blade as it wears well retaining its cutting edge for a long time.
- BK** — Carbon Alloy Steel...A quality blade less durable than the ZK blade but less costly.
- TK** — Treated High Speed Steel...Retains cutting edge very well. Used only for hard or abrasive materials such as fiberglass or heavy denim as it is very expensive.

See back cover for complete list of part numbers of blades according to size, grade, shape, and quantity.

II. OPERATION

2.1 UNPACKING A NEW MACHINE

During shipment oil may have flowed onto Pulley A303 which can cause sharpener to traverse slowly. Sharpener cycle time is 1.5 seconds. If longer, oil is causing Pulley to slip. To remove oil, disconnect power, remove Brake A342, wipe oil from Pulley and Crank A505. Replace Brake.

2.2 TO START

Fill oil cups. Attach Connector A525 to Terminal Pins A523. Move switch A550 from "off" to "on" (USA) or "O" to "I" (International).

Caution: 3 phase motor must turn counter-clockwise when viewed from rear. (FlexiBand against Blade must rotate from back to front).

2.3 TO SHARPEN BLADE (Figure 1)

Machine should be clear of lay and Presserfoot "A" should be down on Baseplate "B". With motor running, move Tripper Handle "C" to right (facing sharpener) until it latches. Release it. Sharpener will automatically sharpen entire blade. Repeat if necessary.

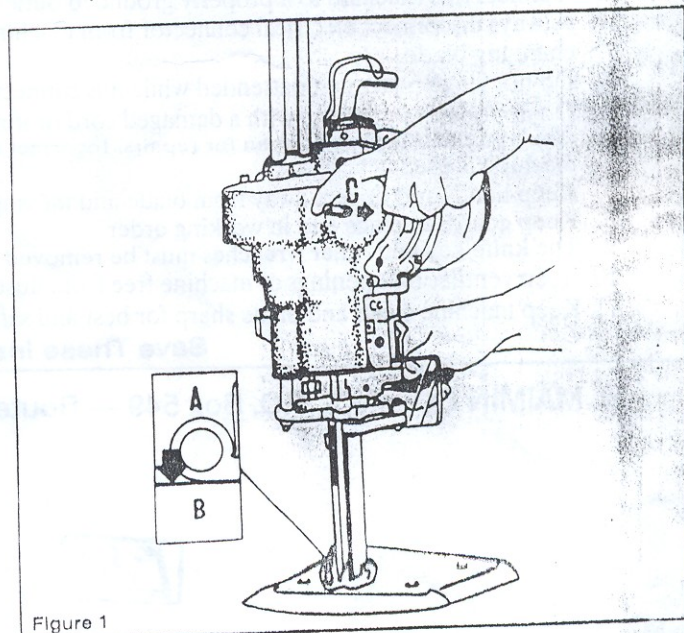


Figure 1

2.4 TO CUT

Raise Presserfoot A402 above top of lay by pressing down on Presserfoot Handle A323 and lifting Presserfoot Lift. For Squeeze Trigger, pull Handle 23308 towards machine Handle A549. Enter lay, and lower Presserfoot to top of lay by releasing Presserfoot Trigger. When making turns in lay, it is sometimes advisable to let Presserfoot ride freely on top of lay by pushing down on Presserfoot Handle. When machine is not in use, always lower Presserfoot to Baseplate. The Presserfoot Leg acts as a safety guard for the blade.

2.5 TO CHANGE FLEXIBANDS (Figures 2 and 3)

- Disconnect power.
- Figure 2: Push Block "A" to release right (upper) FlexiBand "B". Remove FlexiBand from Block and then from Drive Pulley "C".
- Figure 3: Slip new FlexiBand "B" over Drive Pulley "C" and between Band Plate "D" and Blade "E." Push Block "A" forward and slide FlexiBand over it. Release Block "A."
- Remove left (lower) FlexiBand, and install new one in same manner.

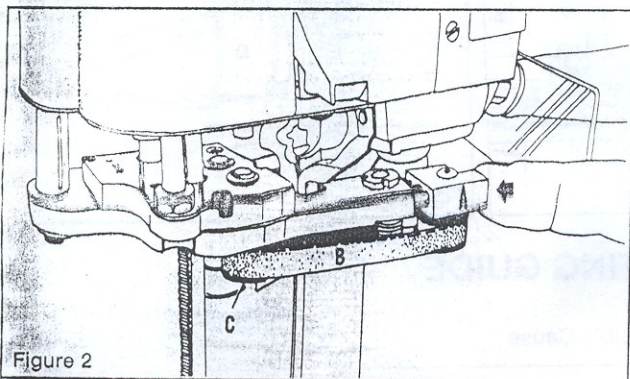


Figure 2

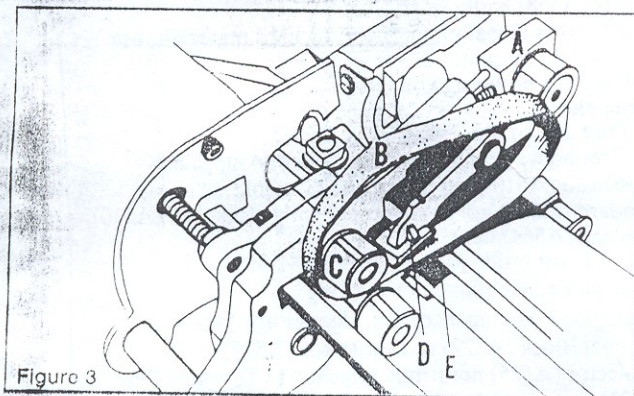


Figure 3

2.6 TO CHANGE BLADE (Figure 4)

- Disconnect power and lower Presserfoot Leg.
- Lay machine on left side.
- Press and turn Thumbwheel "A" to move Blade to its lowest position.
- With Knife Key "B" turn Nut "C" counter clockwise to unlock blade.
- Raise Presserfoot Leg and slide Blade "D" downwards and out.
- Clean Inserts "E" with slot cleaning tool or bottom corner of blade.
- Slide new Blade up against Knife Locking Bolt.
- Holding lower part of Blade behind edge, push it firmly up against Bolt and back against Inserts.
- Tighten Nut "C."

Note: Use only genuine Maimin Blades with "Cut-Out" and T-shaped slot in shank for optimum performance and safe operation.

Always tighten Knife Locking Bolt and Nut before running machine to prevent damage to Crosshead A510 and Gibbs A513. Do not run sharpener without blade in machine or sharpener will jam.

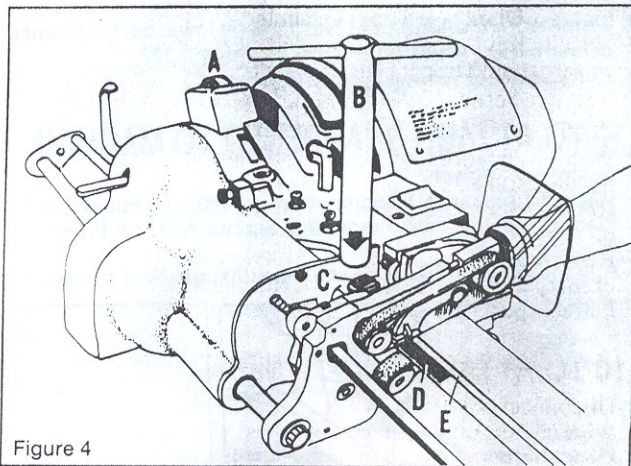


Figure 4

2.7 TO CHANGE BEVEL WIDTH ON BLADE (Figure 5)

- Run sharpener to lowest position, turn off motor, disconnect power.
- Loosen Screw "A."
- Insert Bevel Adjusting Tool "B" into Washer "C" and rotate Washer to increase or decrease blade bevel width. Note arrow on washer and edge width indicator on Band Plate Carrier (A374).
- Tighten Screw "A."
- Bevel on opposite side is adjusted in same manner.

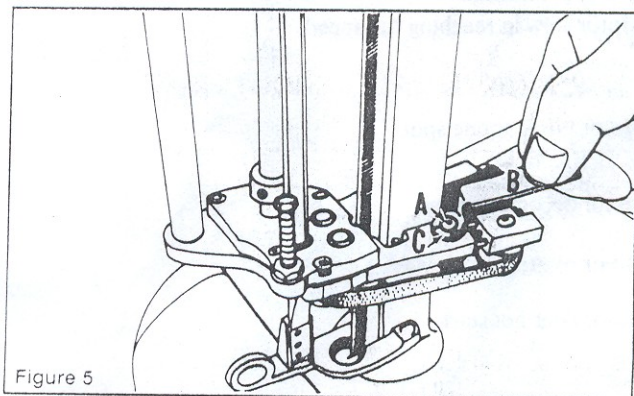


Figure 5

2.8 MAINTENANCE SCHEDULE

- Daily: Fill oil cups (A547). Use either Maimin Oil 22109 or quality "30 weight" oil (I.S.O. viscosity grade 220).
- Weekly:
 - Sharpener — run to lowest position, turn off motor, and blow out lint and dust with compressed air.
 - Motor — run motor, and point stream of compressed air into back of motor and side of front housing by fan to eject lint and dust.
- Every 500 hours of operation:
 - Sharpener — Remove Cap Screw (A367A) from top of Gear Case (A367) and squeeze in a small amount of Grease 22174 to coat gears.
 - Motor — Remove motor cover and, with compressed air, blow lint and dust from motor coils and armature.

2.9 TO REMOVE SHARPENER FROM MACHINE (Figure 6)

- Run sharpener to lowest position, turn off motor and disconnect power.
- Figure 6: Disengage Tripper Handle "A" by inserting handle of Knife Key "B" through hole in lower cover and pressing upwards until Tripper Handle snaps back to its "off" position.
- Remove Screw A390 holding Clamp Plate A394 against Band Plate Guide A393 and remove Guide and Plate.
- With 3/8" wrench remove 2 Nuts A344 and 2 Washers A343 holding Brake A342, and remove Brake.
- Remove Screw A316 holding Shafts Cover A315, and lift off Cover.
- Remove 3 Nuts A328 and 1 Nut 510B (at lower left rear corner of sharpener) which hold Drive Housing A327.
- Pull sharpener forward gently to remove.

2.10 TO ATTACH SHARPENER TO MACHINE

- Disconnect power.
- Wipe oil from outer diameter of Crank A505 and Pulley A303.
- Place sharpener onto 3 mounting Screws A521 on Front Housing.
- Add and tighten 3 Nuts A328 and Nut 510B on back of sharpener.

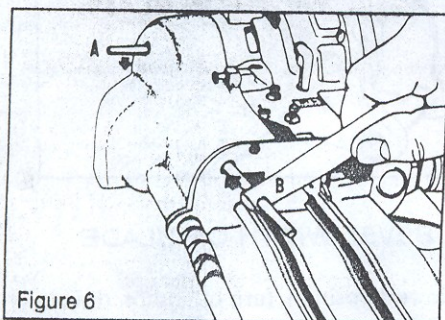


Figure 6

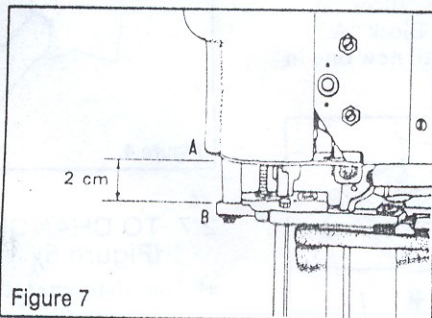


Figure 7

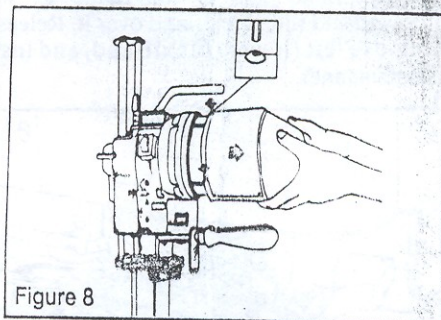


Figure 8

- Add Band Plate Guide A393 and Clamp Plate A394.
- Hold Guide against Standard A564 and tighten Screw A390.
- Lower Presserfoot Leg to Baseplate, connect power, and run sharpener to its top position. Disconnect power.
- Add Shafts Cover A315.
- Add Brake A342.

2.11 TO SET POSITION OF BAND PLATE CARRIER A374 (Figure 7)

- Run sharpener to highest position, turn off motor, and disconnect power.
- Figure 7: Measure distance between Cover "A" (A361) and top of Gear Case "B" (A367). Maximum distance is 25/32" (2 cm) when Screw A363 is adjusted properly.
- If distance is greater, loosen Nut A366 and lower Screw A363 a few turns. Tighten Nut, run sharpener, and measure again.
- FlexiBands A386 must not touch blade A574 when sharpener is at top position.

2.12 TO REMOVE MOTOR COVER A579 (Figure 8)

Disconnect Power. Loosen the 3 Screws A580, and slide Motor Cover off.

III. TROUBLE SHOOTING GUIDE

3.1 MACHINE TROUBLE SHOOTING

Symptom

Possible Cause

- Bottom corner of blade breaks.
 - Inserts (A558) badly worn.
- Motor slow in reaching full speed.
 - Knife strikes throat plate. If cutting hard materials, use wide slot throat plate.
- Motor binds at one spot.
 - Low voltage or wrong voltage.
 - Three phase:
 - Fuse out on one phase.
 - Ground wire incorrectly connected to machine.
- Motor becomes hot.
 - Crosshead (A510) and Gibbs (A513) tight.
 - Standard (A564) not in alignment with Crosshead (A510).
 - Standard (A564) bent.
- Motor rotates wrong way.
 - Lint and dust inside Motor Cover (A579).
 - Three phase: one phase not working.
 - Three phase: Wiring incorrect. Change any two wires in Terminal Block (A522) or Connector (A525).
- Motor does not start.
 - Connector (A525) not firmly attached to Terminal Pins (A523).
 - Switch (A550) defective.
 - Starting Switch or Relay (A540) and/or Capacitor (A543) defective.
 - Broken Jumper Wire. (Capacitor to Starting Switch or Relay)
- Terminal Block and/or Connector becomes very hot.
 - Inserts in Connector (A525) worn. Change Connector.
 - Terminal Pins (A523) worn.
- Machine does not roll freely on table.
 - Surface of cutting table not smooth.
 - Cushions (A561) in Roller Carriers compressed causing Baseplate (A560) to drag on table.

3.2 SHARPENER TROUBLE SHOOTING

Symptom

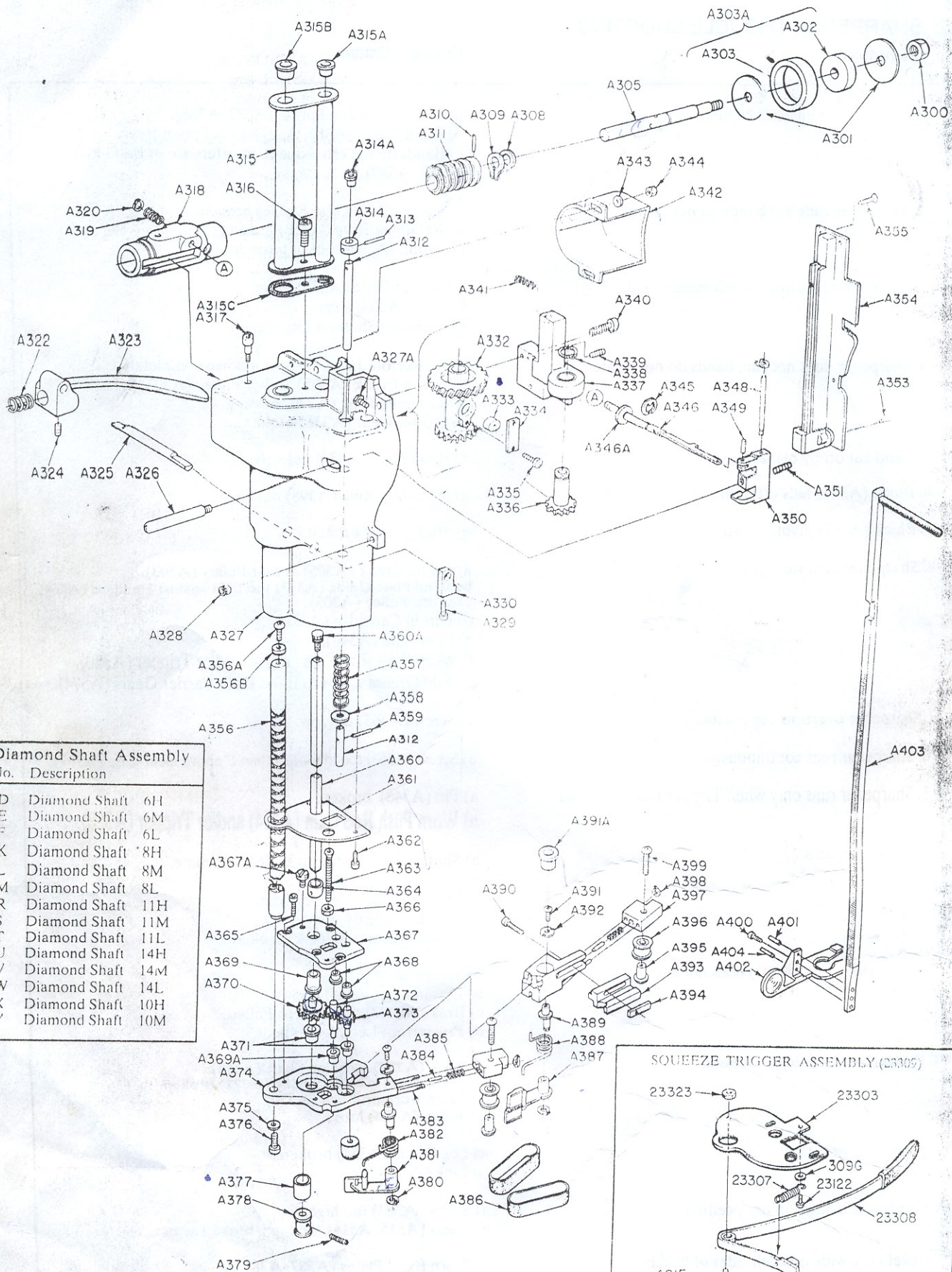
Possible Cause

- | | |
|--|---|
| 1. No bevel on one side of blade. | <ul style="list-style-type: none"> a) Broken Torsion Spring (A382, A388). b) Band Plates (A381, A387) do not pivot freely. c) Bands do not cross due to interference of Band Plates (A381, A387). |
| 2. Sharpener runs but bands do not rotate. | <ul style="list-style-type: none"> a) Square Shaft Gear (A336) broken. b) Retaining Ring (A338) missing. c) Clamp (A364) out of position. |
| 3. Sharpener does not run but bands rotate. | <ul style="list-style-type: none"> a) Keeper Plate (A334) loose. b) Boat (A333) worn. c) Diamond Shaft (A356) worn. |
| 4. Sharpener does not run, bands do not rotate. | <ul style="list-style-type: none"> a) Presserfoot Leg (A403) not down completely. b) Oil on Crank (A505) and/or Pulley (A303). c) Retaining Ring (A320) missing. d) Cluster Gear (A332) broken. |
| 5. Band cut off by blade. | <ul style="list-style-type: none"> a) Band Plate (A387) defective. |
| 6. Block (A397) falls off during band changing. | <ul style="list-style-type: none"> a) Retaining Ring (A398) missing. |
| 7. Block (A397) pivots, twisting band. | <ul style="list-style-type: none"> a) Stud (A383) broken. |
| 8. Sharpener runs slowly. | <ul style="list-style-type: none"> a) Oil on Crank (A505) and/or Pulley (A303). b) Band Plate Guide (A393) too tight against Standard (A564). c) Worn Pulley (A303). d) Dirt in Cartridge (A318). e) Bent Link (A346). f) Worn Push Rod Cam (A314) and/or Tripper (A350). g) Add Grease 22174 to Band Plate Carrier Gears (A374). |
| 9. Sharpener overruns top position. | <ul style="list-style-type: none"> a) Screw (A363) too low. |
| 10. Sharpener runs continuously. | <ul style="list-style-type: none"> a) Screw (A363) too low—less than 1" above Gear Case (A367). |
| 11. Sharpener runs only when Tripper Handle is held. | <ul style="list-style-type: none"> a) Pin (A348) broken. b) Worn Push Rod Cam (A314) and/or Tripper (A350). |
| 12. Sharpener jams. | <ul style="list-style-type: none"> a) Sharpener run without knife in machine. b) Boat (A333) broken. c) Diamond Shaft (A356) bent. d) Standard (A564) bent. e) Nylon Washer (A360A) broken. |
| 13. Presserfoot Leg (A403) does not move freely. | <ul style="list-style-type: none"> a) Sharpener not at top position. b) Dirt in Leg Guide (A354). c) Brake (A342) too close to Pulley. d) Presserfoot Leg (A403) bent. |
| 14. Presserfoot Leg does not hold. | <ul style="list-style-type: none"> a) Lock (A330) loose on Shaft (A325). b) Presserfoot Handle Spring (A322) broken. c) Teeth worn on Lock (A330). d) Screw (A324) loose. |
| 15. Safety not working. | <ul style="list-style-type: none"> a) Leg Guide (A354) broken. b) Link (A346) bent. |
| 16. Bands touch blade in top position. | <ul style="list-style-type: none"> a) Screw (A363) too high. b) Cams (A515, A516) too high, broken or bent. |
| 17. Bevel very wide on both sides of blade. | <ul style="list-style-type: none"> a) Worn Band Plates (A387, A381). b) Band Plate Guide (A393) too tight. |

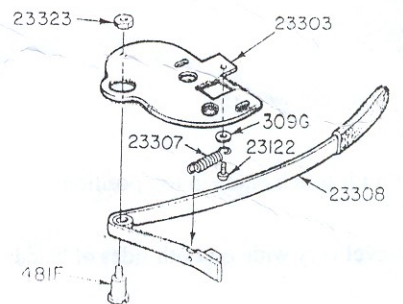
MODEL A SHARPENER

356 Diamond Shaft Assembly

Part No.	Description
23093D	Diamond Shaft 6H
23093E	Diamond Shaft 6M
23093F	Diamond Shaft 6L
23093K	Diamond Shaft 8H
23093L	Diamond Shaft 8M
23093M	Diamond Shaft 8L
23093R	Diamond Shaft 11H
23093S	Diamond Shaft 11M
23093T	Diamond Shaft 11L
23093U	Diamond Shaft 14H
23093V	Diamond Shaft 14M
23093W	Diamond Shaft 14L
23093X	Diamond Shaft 10H
23093Y	Diamond Shaft 10M



SQUEEZE TRIGGER ASSEMBLY (23309)

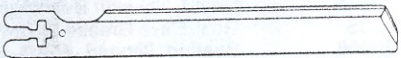
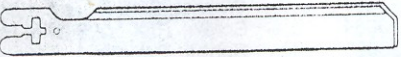
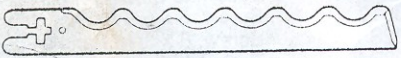


PARTS LIST

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
A300	838N	Nut, 1/4-20 Hex	A360	23211A	Square Shaft, 6", 8"
A301	23298	Washer .250 X 1.500 X .06 (2)		232211C	Square Shaft, 10", 11"
A302	23299	Pulley Wheel (1)		23211D	Square Shaft, 14"
A303	1498	Pulley only	A360A	23320	Washer, Nylon, Square Shaft
A303A	23300	Pulley Wheel Assembly		23321	Screw, 6 X 3/8 Button Hd. Socket Cap
A305	23196	Worm Shaft	A361	23244	Cover
A308	839W	Washer, .32 X 1/2 X 1/32		23303	Cover, Squeeze Trigger Only
A309	23234	Retaining Ring, 5100-31	A362	23226	Screw, 6 X 1/4 Socket Hd. Cap (2)
A310	23068	Spring Pin, 7/64 X 1/2	A363	23290	Screw, 10 X 1-1/2 Fillister Hd.
A311	23067	Worm	A364	23212	Clamp w/23263
A312	23036	Push Rod		23263	Screw, 10 X 1/2 Slot Set Flat Pt.
A313	23267	Spring Pin, 1/16 X 3/8	A365	824T	Screw, 6 X 3/8 Socket Cap (4)
A314	23005	Cam	A366	836N	Keypnut, 10-32 Hex
A314A	402BL	Tapered Plug #181	A367	23275	Gear Case with Bushings
A315	23229E	Tapered Shafts Cover, 6", 8"	A367A	436S	Gear Case Grease Screw
	23229C	Shafts Cover, 10", 11"	A368	23086	Bearing, flanged .252 X .377 X 1/4
	23229D	Shafts Cover, 14"	A369	23091	Bearing, flanged .252 X .377 X 1/2
A315A	402BL	Tapered Plug #181	A369A	23091A	Bearing, Left Driven Gear
	402BQ	Tapered Plug #10 (for 23229E)	A370	23210	Drive Gear
A315B	402BJ	Tapered Plug #241	A371	23086	Bearing, flanged .252 X .377 X 1/4
	402BW	Tapered Plug #16 (for 23229E)	A372	23208	Driven Gear, left
A315C	23302	Shafts Cover Gasket 10", 11", 14"	A373	23209	Driven Gear, right
A316	23056	Screw, 1/4 X 1/2 Socket Cap	A374	23276	Band Plate Carrier w/Bushings & Studs
	23332	Screw, 1/4 X 2 3/4 Socket Cap (for 23229E)	A375	23261	Washer, 3/16 X 1/2 X 3/64
			A376	23084	Screw, 10 X 1/2 Socket Hd. Cap
	23334	Lockwasher, .263 X .365 X .078 (for 23229E)	A377	23098	Rubber Tire (2)
A317	481F	Screw, 1/4 X 3/8 Shoulder (2)	A378	23099	Drive Pulley (2)
A318	23192	Cartridge w/Worm & Pulley	A379	23097	Screw, 4 X 1/8 Soc. Set Flat Pt. (2)
A319	23017	Spring	A380	23227	Retaining Ring 5100-25 (2)
A320	23219	Retaining Ring, 5555-23	A381	23165	Band Plate, right
A322	492	Trigger Spring	A382	23110	Spring, Torsion, right
A323	23047	Presserfoot Handle	A383	23115	Stud, 1/8 X 1-1/8 (4)
A324	490	Screw, 5/16 X 3/8 Set	A384	23116	Spring Pin, 3/32 X 1/4 (2)
A325	23049	Shaft	A385	23117	Spring (2)
A326	23053	Tripper Handle	A386	1450	FlexiBand, Coarse — 100/box
A327	23274	Drive Housing with Bushings		1451	FlexiBand, Medium — 100/box
A327A	510A	Screw, 10 X 1/2 Socket Set Cup		1452	FlexiBand, Fine — 100/box
	510B	Nut, 10-32 Hex		1457	FlexiBand, Coarse — 500/box
A328	23252	Nut, 10-32 Socket (3)		1458	FlexiBand, Medium — 500/box
A329	23271	Screw, 8 X 5/8 Socket Hd. Cap		1459	FlexiBand, Fine — 500/box
A330	23050	Lock	A387	23164	Band Plate, left
A332	23189T	Cluster Gear	A388	23109	Spring, Torsion, left
A333	23119A	Boat w/ Keeper Plate 23120	A389	23223	Eccentric Stud (2)
A334	23120	Keeper Plate	A390	23019	Screw, 6 X 5/8 Socket Cap
A335	23259	Screw, 6 X 1/4 (2)	A391	802S	Screw, 6 X 3/16 Pan Hd. (2)
A336	23203	Square Shaft Gear	A391A	402BJ	Tapered Plug #241
A337	23273	Gear Block with Bushings	A392	23225	Washer (2)
A338	1277	Retaining Ring, 5108-50	A393	23250	Band Plate Guide, 6", 8"
	23330	Spacer		23272	Band Plate Guide, 10", 11"
A339	23251	Screw, 10 X 3/4 Slot Set Flat Pt.		23282	Band Plate Guide, 14"
A340	23019	Screw, 6 X 5/8 Socket Cap (2)	A394	23249	Clamp Plate
A341	23031	Spring	A395	23114	Stud, Idler Pulley (2)
A342	23200	Brake	A396	23293	Pulley, Idler, w/Bushing (2)
A343	23007	Washer, 13/64 X 7/16 X 1/32 (2)	A397	23111	Block (2)
A344	510B	Nut, 10-32 Hex (2)		23280	Block w/Idler Pulley, left
A345	23016	Retaining Ring, 5144-25		23281	Block w/Idler Pulley, right
A346	23284	Link Assembly	A398	23288	Retaining Ring, 5144-12 (2)
A346A	23289	Washer, .257 X 9/16 X 1/32	A399	23112	Screw, 8 X 1/2 Button Hd. (2)
A348	23328	Tripper Pin w/840D	A400	23316	Lockwasher, #4 Split
	23011A	Tripper Pin Only		23318	Screw, #4 X 3/8 Socket Head Cap
	840D	Retaining Ring, 5555-12	A401	23319	Lock Nut, #4-40 Hex
A349	23013	Spring Pin, 3/32 X 5/16	A402	23013	Spring Pin, 3/32 X 5/16
A350	23190	Tripper	A403	23040	Presserfoot, 6", 8", 10", 11", 14"
A351	23054	Screw, 6 X 1/8 Socket Set Cup		23042B	Presserfoot Leg w/Lift 824A — 6"
A353	23258	Screw, 4 X 3/8		23042D	Presserfoot Leg w/Lift 824A — 8"
A354	23217	Leg Guide w/Leg Keeper		23042H	Presserfoot Leg w/Lift 824A — 10"
	23325	Leg Guide Assy, Squeeze Trigger Only		23042F	Presserfoot Leg w/Lift 824A — 11"
A355	23122	Screw, 6 X 1/4 Loc-Wel Button Hd. Socket Cap (4)		23042G	Presserfoot Leg w/Lift 824A — 14"
			A404	23013	Spring Pin, 3/32 X 5/16
A356	23093D-Y	Diamond Shaft Assy. (see Chart Pg.6)			SQUEEZE TRIGGER ASSEMBLY (23309)
A356A	23286	Screw, 10 X 1/2 Button Hd. Soc. Cap		23122	Screw, 6 X 1/4 Button Hd.
		14" Machines Only		23303	Cover, Squeeze Trigger Only
A356B	23287	Washer, Nylon, 14" Machines Only		23307	Spring
A357	23008	Spring		23308	Squeeze Trigger Handle Assembly
A358	23007	Washer, 13/64 X 7/16 X 1/32		23323	Locknut 10-24
A359	23267	Spring Pin, 1/16 X 3/8		309G	Brass Washer
				481F	Screw, 1/4 X 3/8 Shoulder

Always Give Machine SERIAL NUMBER When Ordering Parts.
Order By PART NUMBER — Not Key Number

BLADES AVAILABLE

Shape & Application	Grade	Quantity	Size & Part Number				
			6"	8"	10"	11"	14"
REGULAR  For general purpose cutting	BK	Dozen	30012	30014	30016	—	—
LONG  For hard or loosely woven materials, and general purpose cutting	ZKL TK	Each Dozen Each Dozen	30084 30085 30344 30345	30088 30089 30348 30349	30098 30099 30356 30357	30092 30093 30352 30353	30094 30095 30354 30355
TEFLON COATED  For synthetics	ZKL	Each Dozen	30100 30101	30102 30103	30106 30107	— —	— —
WAVE  For synthetics and plastics	ZK	Each Dozen	30174 30175	30178 30179	— —	— —	— —

Note: There is a different part number for single blades and boxes of one dozen (12).
PLEASE ORDER BY PART NUMBER

H. MAIMIN CO., INC.

P.O. BOX 549 — ROUTE 341, KENT, CONNECTICUT 06757, U.S.A.
 PHONE: (203) 927-4601 FAX: (203) 927-4703
 USA: (800) 243-4645

MAIMIN

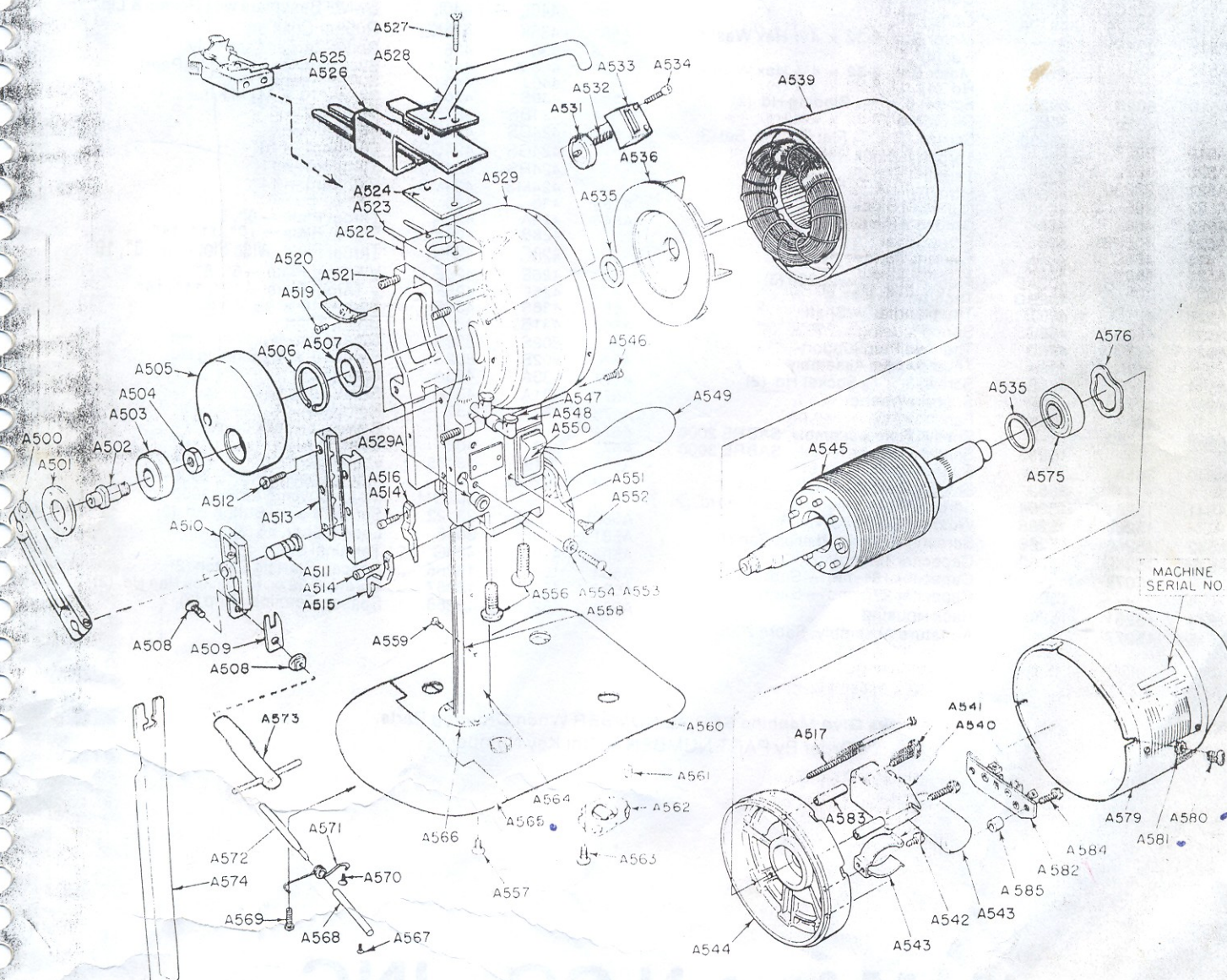
THE CUTTER'S EDGE

SABRE 2000 AND 3000 MOTORS WITH STANDARD ASSEMBLIES

FOR MOTOR CODES AP1, AP2, AP3, AP4, AP8, AR1, AR2, AR3, AR4, AR8, ONLY

MOTOR CODES REFER TO FIRST 3 OR 4 DIGITS
IN SERIAL NO. BOX ON NAMEBAND AS SHOWN

MAIMIN	
Sabre	TYPE
USE	INCH BLADE
NO.	XXX-XXX-XXXX
	V Hz



H. MAIMIN CO., INC., P.O. BOX 549 — Route 341, Kent, Connecticut 06757, U.S.A.

PARTS LIST

KEY NO.	PART NO.		DESCRIPTION	KEY NO.	PART NO.		DESCRIPTION
	SABRE 2000	SABRE 3000			SABRE 2000	SABRE 3000	
A500	412A	412A	Connecting Rod — H			15282	Armature Assembly, Sabre 3000
	412B	412B	Connecting Rod — M	A546	441S	441S	Screw, 6 x 5/16 Fillister Hd. (2)
	412C	412C	Connecting Rod — L	A547	402BD	402BD	Oil Cup
A501	413W	413W	Bearing Lock		402B	402B	Oil Cup Assembly with Tube
A502	415	415	Crank Pin	A548	466G	466G	Cover, Switch Box
A503	414	414	Crank Bearing	A549	464P	464P	Contoured Handle w/Bushing
A504	415N	415N	Crank Nut	A550	443	443	Switch
A505	413BX	413BX	Crank w/413W, 414, 415-H	A551	464R	464R	Shield
	413CX	413CX	Crank w/413W, 414, 415-M	A552	818S	818S	Screw, 6 x 1/4 Flat Hd.
	413DX	413DX	Crank w/413W, 414, 415-L	A553	410	410	Screw, 8 x 1/2 Fillister Hd. (2)
A506	404E	404E	Retaining Ring	A554	410N	410N	Nut (2)
A507	403	403	Bearing #203	A556	425A	425A	Bolt, 3/8 x 3/4 Button Hd. (3)
A508	416	416	Knife Bolt & Nut	A557	427S	427S	Screw, 10 x 3/8 Flat Hd. Soc. (6)
A509	411A	411A	T-Slot Lock	A558	428B	428B	Insert for Standard — 8"
A510	411	411	Crosshead w/411P		428D	428D	Insert for Standard — 3"
A511	411P	411P	Wrist Pin		428G	428G	Insert for Standard — 10"
A512	409A	409A	Screw, 8 x 3/4 Fillister Hd. (6)		428H	428H	Insert for Standard — 11"
A513	409C	409C	Gibbs, pair		428M	428M	Insert for Standard — 14"
A514	23226	23226	Screw, 6 x 1/4 Socket Hd. (2)	A559	428T	428T	Insert Screw
A515	23151	23151	Cam, Right	A560	429C	429C	Baseplate with Rollers & Lip
A516	23152	23152	Cam, Left		440L	440L	Swivel Baseplate with Rollers & Lip
A517	419U	—	Motor Bolt, 8-32 x 4 1/2 Hex Washer Hd. (4)	A561	436K	436K	Rubber Cushion
	—	419F	Motor Bolt, 8-32 x 4 3/4 Hex Washer Hd. (4)	A562	436	436	Roller Carrier Assembly
			Screw, 6 x 3/16 Binding Hd. (2)		440M	440M	Swivel Roller Assembly (Rear)
A519	802S	802S	Oil Guard		440J	440J	Swivel Adaptor Ring
A520	402L	402L	Screw, 10 x 7/8 Flat Pt. Soc. Set (3)	A563	436S	436S	Screw, 10 x 1/32 M Hd.
A521	23230	23230	Terminal Block with Pins	A564	424BS	424BS	Standard — 8"
A522	405	405	Terminal Pin (2)		424DS	424DS	Standard — 6"
A523	406	406	Fibre Cover		424GS	424GS	Standard — 10"
A524	405PE	405PE	Current Connector		424HS	424HS	Standard — 11"
A525	458B	458B	Ground Shield		424MS	424MS	Standard — 14"
A526	458K	458K	Screw, 8 x 1 1/8 Flat Hd.	A565	430	430	Lip
A527	408	408	Top Handle	A566	426A	426A	Throat Plate — 6", 8"
A528	407D	407D	Front Housing w/23230 (3)		426B	426B	Throat Plate — 10", 11", 14"
A529	402AB	402AB	Tapered Plug #7-S		426C	426C	Throat Plate, Wide Slot — 6", 3", 10"
A529A	402BG	402BG	Thumbwheel w/Shaft		426E	426E	V Throat Plate — 6" 8"
A531	468J	468J	Spring		426F	426F	V Throat Plate — 10", 11", 14"
A532	468C	468C	Thumbwheel Support	A567	436S	436S	Screw, 10 x 5/32 M Hd.
A533	468D	468D	Thumbwheel Assembly	A568	431B	431B	Shaft, Short
	468A	468A	Screw, 6 x 7/8 Socket Hd. (2)	A569	802S	802S	Screw, 6 x 3/16 Binding Hd.
A534	468S	468S	Support Washer	A570	802S	802S	Screw, 6 x 3/16 Binding Hd.
A535	497P	497P	Fan	A571	433A	433A	Spring, Lip
A536	400K	400K	Shell & Field Assembly, SABRE 2000	A572	431A	431A	Shaft, Long
A539	15260	—	Shell & Field Assembly, SABRE 3000	A573	457	457	Knife Key
	—	15283	Starting Switch, SABRE 2000	A574	—	—	Blade (see back cover)
A540	365A	—	Starting Switch, SABRE 3000	A575	403	403	Bearing #203
	—	365J	Screw, 8-32 x 1 1/4 Phillips Pan Hd. (2)	A576	15195	15195	Loading Spring
A541	15264	15264	Washer 3/8 x .175 x .035 (2)	A579	302QB	—	Motor Cover, SABRE 2000
	15288	15288	Screw, 8-32 x 3/8 Phillips Pan Hd.		—	302QM	Motor Cover, SABRE 3000
A542	15266	15266	Capacitor Clamp	A580	23122	23122	Screw, 6 x 1/4 Button Hd. (3)
A543	15262	15262	Capacitor 161 mfd — Sabre 2000	A581	309F	309F	Lockwasher, #6 (3)
	15079	—	Capacitor 270 mfd — Sabre 3000	A582	483G	483G	Terminal Strip
	—	15076	Back Housing	A583	15265	15265	Spacer, Starting Switch (2)
A544	15261	15261	Armature Assembly, Sabre 2000	A584	15267	15267	Screw, 8-32 x 3/8 Phillips Pan Hd. (2)
A545	15277	—		A585	15268	15268	Spacer, Terminal Strip (2)

Always Give Machine SERIAL NUMBER When Ordering Parts.
Order By PART NUMBER — Not Key Number

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PHONE: (203) 927-4601 FAX: (203) 927-4703

H. Maimin Co., Inc.
Box 549
Hart, CT. 06757 U.S.A.

SUPPLEMENT PARTS LIST FOR STRAIGHT KNIFE

MACHINES FOR MOTOR CODES, AP1, AP2, AP3, AP4,

AP8, AR1, AR2, AR3, AR4, AR8 ONLY

<u>Key No.</u>	<u>Part No.</u>	<u>Description</u>
A522	405NX	Terminal Block
A523	309C	Terminal Pin
A524	405PB	Fibre Cover
A527	408A	Screw, 8-32 X 1 3/4 Flat Hd (2)
A528	407H	Top Handle
A549	464S	Soft Grip Handle Assembly
A560	429B	Low Baseplate with Rollers & Lip
A562	440R	Low Swivel Baseplate with Rollers & Lip
A565	436F	Roller Carrier Assembly, Low
A568	430B	Lip, Low Baseplate
A571	431C	Axle, Low Baseplate
A580	433C	Spring, Low Lip
A581	23321	Screw, 6 X 3/8 Button Hd. (3)
	10318	Lockwasher, #6 Split Ring (3)

PARTS NOT ILLUSTRATED

<u>Part No.</u>	<u>Description</u>
23333	Screw, 6-32 X 1/2 Button Hd. Socket
309B	Nut, Hex 6-32, Plated (2)
309E	Nut, Hex 6-32, Brass (2)
309G	Washer, #6, Brass (4)
429G	Lip Stop
10839	Screw, 10-32 X 1/4 Flat Hd.

Always give machine SERIAL NUMBER when ordering parts.
Order by PART NUMBER - not Key Number.

IMPORTANT SAFETY INSTRUCTIONS

When using your cutting machine, basic safety instructions should always be followed including the following:

This cutting machine is for commercial use only. Read all instructions before using.

DANGER--To reduce the risk of electric shock:

1. Do not install or store this machine in a wet location.

WARNING--To reduce the risk of burns, fire, electric shock, or injury to persons:

1. Use machine only for its intended use as a portable cutting machine.
2. Turn machine to "OFF" (O) before connecting or disconnecting power cord.
3. Connect this machine to a properly grounded outlet only. See Grounding Instructions.
4. Always disconnect electrical connector from machine when not using it, before servicing it, or changing blade.
5. Do not leave machine unattended while it is connected to power outlet.
6. Do not operate machine with a damaged cord or if machine has been dropped. Do not disassemble-- take to a qualified serviceman for repairs. Incorrect assembly can cause electric shock when the machine is used.
7. Keep hands and fingers away from blade and moving parts.
8. Keep guards in place and in working order.
9. The knife key and other wrenches must be removed from machine before starting motor.
10. Keep ventilation openings of machine free from dust and lint.
11. Keep machine clean and blade sharp for best and safest performance.

SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

This machine must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This machine is equipped with a Ground Shield surrounding the Terminal Pins; this Ground Shield is designed to be used with a Maimin Grounded Connector, part number 458A or 458B. See wiring instructions supplied with the Connector.

DANGER-- Improper connection of the Maimin Connector can result in a risk of electric shock. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood or if in doubt as to whether the machine is properly grounded.

Do not modify the Ground Shield provided with this machine.

Use correct wire sizes with the Maimin Grounded Connector.

U.S.A. only: 1 phase: Use AWG 16/3 SJ, SJT or SJE
3 phase: Use AWG 16/4 SJ, SJT or SJE

INTERNATIONAL: 1P+N+ : Use 3 X 1, 0 mm CEE (2) 61
3P+ : Use 4 X 1, 0 mm CEE (2) 61

H. MAIMIN CO., INC. P.O. Box 549, Route 341, Kent, CT 06757