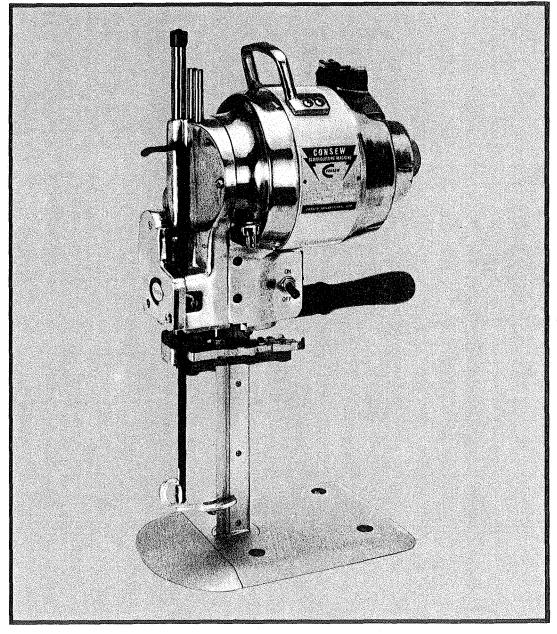


Instructions & Parts List



1. Starting

After making sure that switch A is OFF, connect terminal B and power supply with cord X. Supply 5-6 drops of oil into oil cup C, and manually rotate hand pulley D two or three times to see if it rotates smoothly. Turn on switch A to start the machine. If hand pulley D does not rotate smoothly, the sharpener is engaged and it must be released by lifting lever H.

If hand pulley D still does not rotate smoothly, hold lever I with one hand and turn on switch A with the other. When the motor reaches rated rpm, release lever I to return the sharpener to the stop position.

During the first week of operation, in cold weather, or when starting after a long period of non-use, be sure to supply 5-6 drops of oil into oil cup C, rotate hand pulley D two or three times, and turn switch A on and off several times to lubricate major components.

2. Presser Foot

Grip handle J and squeeze brake lever K with the fingers of the gripping hand to allow shaft rod adjustment. Then, adjust the height of presser foot M to the thickness of material to be cut by moving shaft rod bracket L up or down.

3. Knife Sharpening

Turn on switch A after confirming that there are no obstacles on bed P. When sharpener lever G is pushed completely and then released, sharpener base O moves up and down once to sharpen knife K. (Presser foot M automatically lowers by means of a special device if it is located at the top.) If a satisfactory result is not obtained with a single sharpening operation, repeat. For sharpening the bottom of the knife only, push sharpener lever G completely and release it to lower sharpener O, (sharpener lever G automatically returns and sharpener base O begins rising). Then before lever G returns to the end, squeeze the lever at N (neutral) position. By doing this, only the bottom of the knife is sharpened. After 2 to 3 seconds, release from sharpener lever G and sharpener base O automatically rises to complete sharpening.

Do not continue sharpening for a long time since frictional heat is caused on sharpener belt $W_{\rm c}$

Precaution: Do not operate the sharpener if a knife is not installed, or the sharpener will be damaged.

4. Sharpener Belt Replacement

Check that switch is OFF (with cord X disconnected from terminal B) and that sharpener base O is at sharpening completion position. Then, push belt pulley bracket Q, located at the rear of the sharpener base, forward to remove old sharpener belt. Thread a new belt from the front pulley and run it between the belt holder and knife.

5. Knife Replacement

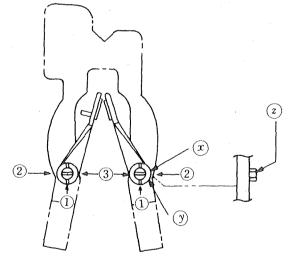
Check that sharpener base O is at the sharpening completion position. Lift presser foot R to the top position, disconnect cord X from terminal B and turn the machine upside down.

Rotate hand pulley D to position knife V at its lowest position, loosen knife lock screw S with box spanner Y, remove the knife from the lower portion of base stand T, and clean the groove of knife slide with cleaner Z.

Then, insert a new knife into knife slide U, place the back of the knife on the bottom of the groove of knife slide U, and securely tighten knife lock screw S. It is recommended to apply a small amount of oil to the rear of the knife.

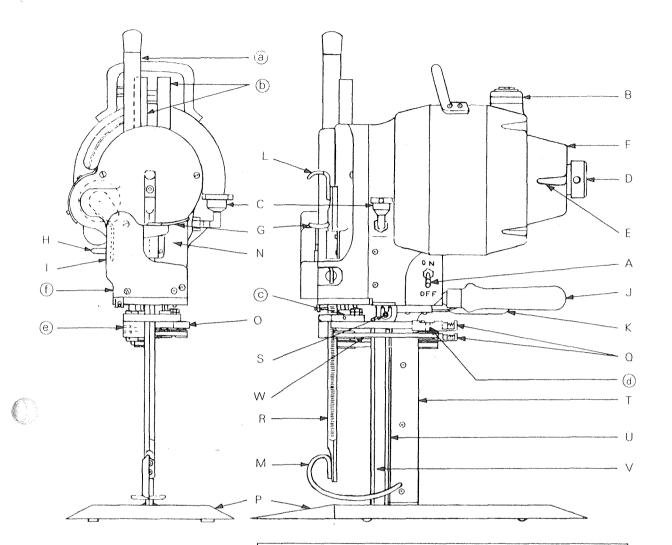
6. Blade Bevel Adjustment

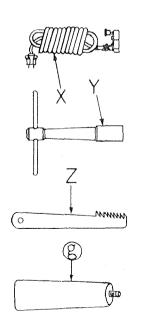
Long, medium or short blade bevel adjustments are set by comparing the positions of two notched eccentric brackets (x) as follows: (1) medium, (2) short, and (3) long. After loosening nut (2) and screw (y), adjust blade bevel by setting eccentric brackets (x)



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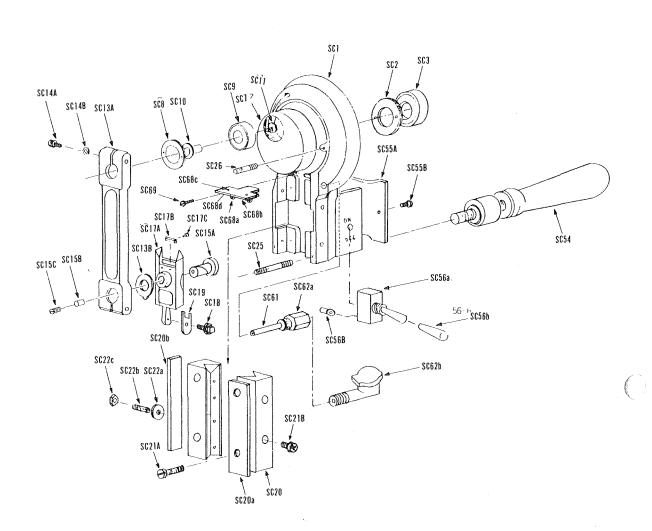
| Lubrication | | | | |
|-------------------------------------|--|--|--|--|
| Daily | Weekly (Lubrication) | Monthly (Greasing) | | |
| 5-6 drops of oil in oil cup C | a and b Pipes C Sharpener base (indicated by arrow mark) d Upper holes on rear belt pulley | e Remove screw in red. f Remove clutch cover and grease slide shafts. | | |

- Notes: 1) Blow lint from motor and sharpener with compressed air once or twice a week.
 - 2) Clean the groove of knife slide U with cleaner Z, and apply a few drops of oil when resetting the knife.
 - 3) Remove lint from roller of bed P. Do not apply oil to the roller.
 - 4) Use oil for cutters. For replacement, use genuine parts,

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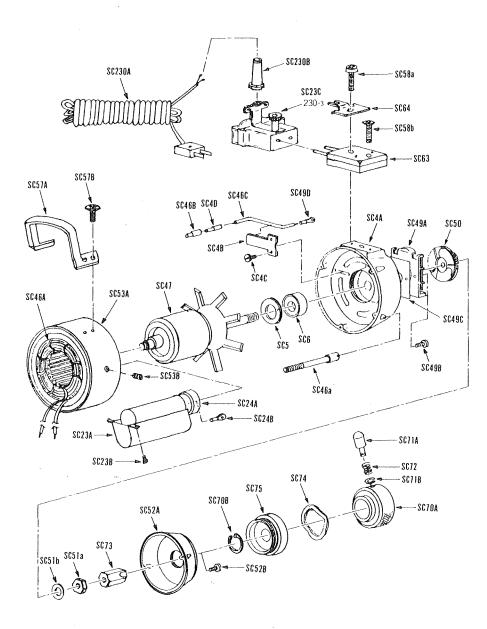


| Part No. | Part Name | Q'ty | Part No. | Part Name | Qʻty |
|-------------|-----------------------------|---------------------|-------------|--|---------|
| SC1 | Motor front housing | 1 pc. | SC20b | Guide plate (side) | 1 pc. |
| SC2 | Ball bearing retainer nut | 1 pc. | SC21A | Guide lock screw (upper) | 4 pcs. |
| SC3 | Ball bearing (6203) | 1 pc. | SC21B | Guide lock screw (side) | 2 pcs. |
| SC7 | Balance crank | 1 pc. | SC22a | Washer for guide adjustment nut | 3 pcs. |
| SC8 | Ball bearing retainer nut | 1 pc. | SC22b | Guide adjusting screw | 3 pcs. |
| SC9 | Ball bearing (6201) | 1 pc. | SC22c | Guide adjusting nut | 3 pcs. |
| SC10 | Crank pin | 1 pc. | SC25 | Sharpener housing hold screw (long) | 2 pcs. |
| SC11 | Screw for crank pin | 1 pc. | SC26 | Sharpener housing hold screw (short) . | 2 pcs. |
| SC13A | Crank connecting rod | 1 pc. | SC54 | Operating handle | 1 pc. |
| SC13B | Washer for connecting rod | 1 pc. | SC55A | Switch plate | |
| SC14A | Connecting rod clamp screw | 2 pcs. | SC55B | Screw for switch plate | 2 pcs. |
| SC14B | Washer for rod clamp screw | 2 pcs. | SC56a | Switch | 1 pc. |
| SC15A | Wrist pin | 1 pc. | SC56b | Switch cap | 1 pc. |
| SC15B | Felt for wrist pin | 1 pc. | SC56B | Electric wire connector | 2 pcs. |
| SC15C | Screw for wrist pin | 1 pc. | SC61 | Oil tube | 1 pc. |
| SC17A | Cross head | 1 pc. | SC62a | Oil cup coupling joint | 1 pc. 🧃 |
| SC17B | Felt for cross head | 1 pc. | SC62b | Oil cup | 1 pc. |
| SC17C | Rivet for felt | 2 pcs. | SC68a | Oil pad holder (upper) | 1 pc. |
| SC18 | Knife lock screw | 1 pc. | SC68b | Oil pad | |
| SC19 | Washer for knife lock screw | 1 pc. | SC68c | Rivet for oil pad | 2 pcs. |
| SC20 | Guide metal | 1 set | SC68d | Washer for oil pad | 2 pcs. |
| SC20a | Guide plate (upper) | [*] 2 pcs. | SC69 | Screw for oil pad holder | 2 pcs. |

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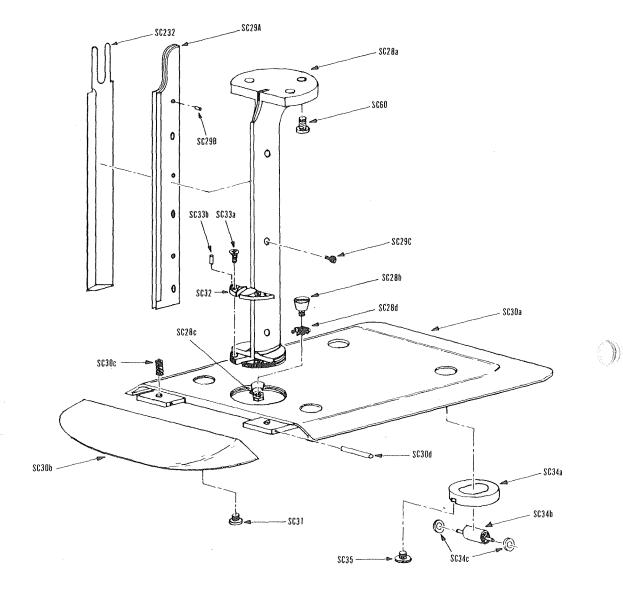
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| Part No. | Part Name | Q'ty | Part No. | Part Name | Qʻty |
|-------------|----------------------------------|--------|-------------|-------------------------------------|--------|
| SC4A | Motor rear housing | | SC52A | Governor cover | 1 pc. |
| SC4B | Hold plate for cord | 2 pcs. | SC52B | Governor cover set screw | 2 pcs. |
| SC4C | Set screw for hold plate | 4 pcs. | SC53A | Motor field housing | 1 pc. |
| SC4D | Electric wire connector | 1 pc. | SC53B | Lock screw for motor field | |
| SC5 | Ball bearing lock nut (retainer) | | SC57A | Carrying handle | 1 pc. |
| SC6 | Ball bearing (6202) | 1 pc. | SC57B | Carrying handle set screw | |
| SC23A | Condenser cover | 1 pc. | SC58a | Terminal set screw (large) | 1 pc. |
| SC23B | Condenser cover set screw | 3 pcs. | SC58b | Terminal set screw (small) | 1 pc. |
| SC24A | Condenser | 1 pc. | SC63 | Terminal block | 1 pc. |
| SC24B | Electric wire connector | | SC64 | Connecting plate for terminal block | 1 pc. |
| SC46a | Motor housing screw | | SC70A | Rotor hand pulley | 1 pc. |
| SC46A | Motor field | 1 pc. | SC70B | Stop ring for hand pulley | 1 pc. |
| SC46B | Electric wire connector | | SC71A | Turning knob | 1 pc. |
| SC46C | Cord for motor field | 2 pcs. | SC71B | Stop ring for turning knob | 1 pc. |
| SC47 | Rotor | | SC72 | Spring for knob | 1 pc. |
| SC49A | Stator base (contact flange) | 1 pc. | SC73 | Clutch nut | 1 pc. |
| SC49B | Stator base set screw | 2 pcs. | SC74 | Wave washer | 1 pc. |
| SC49C | Stator base insulator | 1 pc. | SC75 | Holder for hand pulley | 1 pc. |
| SC49D | Electric wire connector | 2 pcs. | SC230A | Electric cord (3 meter) | 1 pc. |
| SC50 | Rotor base (governor) | 1 pc. | SC230B | Rubber tube for electric cord | 1 pc. |
| SC51a | Governor nut | | SC230C | Connector plug | 1 pc. |
| SC51b | Washer for governor nut | 1 pc. | | | |

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| Part No. | Part Name | Q' ty |
|-------------|----------------------------|--------|
| SC28a | Stand (6" 7" 8" 10") | 1 pc. |
| SC28b | Stand with bed set screw | 1 pc. |
| SC28c | Stand with bed set nut | 1 pc. |
| SC28d | Stand with bed set washer | 1 pc. |
| SC29A | Knife slide (6" 7" 8" 10") | 1 set |
| SC29B | Pin for knife slide | 3 pcs. |
| SC29C | Knife slide screw | 3 pcs. |
| SC30a | Base plate | 1 pc. |
| SC30b | Plate wing | 1 pc. |
| SC30c | Plate wing tension spring | 2 pcs. |
| SC30d | Wing pin | 2 pcs. |

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| Part No. | Part Name | | | | | |
|-------------|-------------------------|--------|--|--|--|--|
| SC31 | Wing pin clamp screw | 4 pcs. | | | | |
| SC32 | Throat plate | 1 set | | | | |
| SC33a | Screw for throat plate | 2 pcs. | | | | |
| SC33b | Pin for throat plate | 2 pcs. | | | | |
| SC34a | Roller bracket | 4 pcs. | | | | |
| SC34b | Roller shell | 4 pcs. | | | | |
| SC34c | Washer for rollers | 8 pcs. | | | | |
| SC35 | Clamp screw for rollers | 8 pcs. | | | | |
| SC60 | Stand set screw | 3 pcs. | | | | |
| SC232 | Knife | 1 pc. | | | | |
| | | | | | | |

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Part No. SC31 SC32 SC33a

SC131 SC130 75 SC132 P H SC105A SC129 SC105B -9 SC104 5 SC103 SC108 SC109 \ SC1128 · D SC106 SC112A 9 scio7 SC141 SC111 SC135 SC110 10 N K SC134 SC137-SC133A SC122A SC138----SC1338 SC123 SC136 +OP SC122B ð — SC140 SC142 -0 SC126 scì43 | SC145 SC146 SC128 I. SC144 600 SC127 SC124

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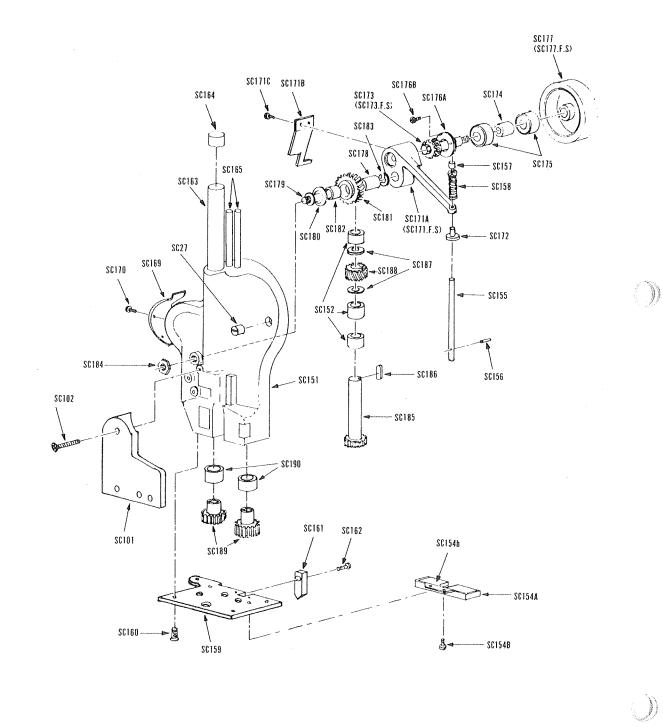
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| Part No. | Part Name | Q'ty | Part No. | Part Name | Qʻty |
|-------------|---------------------------------|--------|-------------|----------------------------------|--------|
| SC103 | Set screw for cam clutch | 1 pc. | SC128 | Presser foot lever spring | 1 pc. |
| SC104 | Camshaft spring | 1 pc. | SC129 | Sharpening lever | 1 pc. |
| SC105A | Cam clutch | 1 pc. | SC130 | Sharpening lever bushing | 1 pc. |
| SC105B | Plate for cam clutch | 1 pc. | SC131 | Sharpening lever pin | |
| SC106 | Cam spring | 1 pc. | SC132 | Screw for sharpening lever | 1 pc. |
| SC107 | Cam spring screw | 1 pc. | SC133A | Stopper bracket | 1 pc. |
| SC108 | Sharpener cam | 1 pc. | SC133B | Stopper bracket bushing | 1 pc. |
| SC109 | Sharpener cam pin | 1 pc. | SC134 | Spring for stopper bracket | |
| SC110 | Camshaft set screw | 1 pc. | SC135 | Set screw for above spring | 1 pc. |
| SC111 | Camshaft | 1 pc. | SC136 | Stopper bracket screw | 1 pc. |
| SC112A | Bushing for camshaft | 1 pc. | SC137 | Presser foot joint lever | 1 pc. |
| SC112B | Bushing for camshaft | 1 pc. | SC138 | Presser foot joint lever set pin | 1 pc. |
| SC122A | Presser foot rod lifter | 1 pc. | SC140 | Stopper | 1 pc. |
| SC122B | Lifter set screw | 1 pc. | SC141 | Lever joint | 1 pc. |
| SC123 | Presser foot rod (6" 7" 8" 10") | 1 pc. | SC142 | Presser foot bracket (thick) | 1 pc. |
| SC124 | Presser foot shoe | 1 pc. | SC143 | Presser foot bracket (thin) | 1 pc. |
| SC125 | Presser foot shoe set screw | 2 pcs. | SC144 | Presser foot bracket (right) | 1 pc. |
| SC126 | Presser foot lever | 1 pc. | SC145 | Presser foot bracket (left) | 1 pc. |
| SC127 | Presser foot lever screw | 1 pc. | SC146 | Presser foot bracket screw | 6 pcs. |

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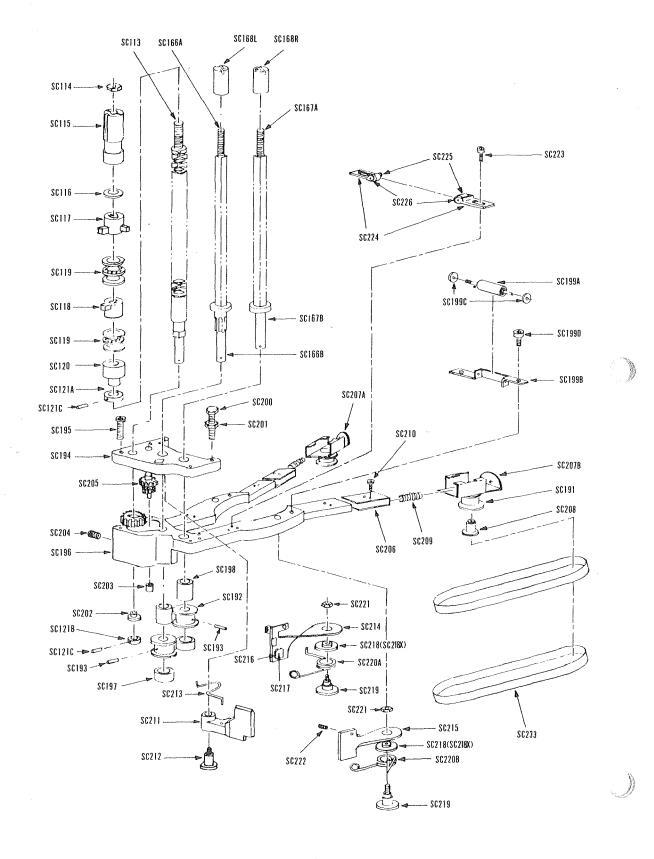
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| Part No. | Part Name | Qʻty | Part No. | Part Name | Q'ty |
|-------------|--|--------|-------------|------------------------------------|--------|
| SC27 | Sharpener housing hold nut | 4 pcs. | SC171B | Lever for pulley crank (only F.S) | 1 pc. |
| SC101 | Clutch cover | 1 pc. | SC171C | Set screw for lever | 2 pcs. |
| SC102 | Screw for clutch cover | 2 pcs. | SC172 | Stud for pulley crank | 1 pc. |
| SC151 | Sharpener housing | 1 pc. | SC173 | Gear with shaft (regular.S or F.S) | 1 pc. |
| SC152 | Bushing for driver shaft | 3 pcs. | SC174 | Collar | 1 pc. |
| SC154A | Lower oil pad holder | 1 pc. | SC175 | Ball bearing (608) | - |
| SC154B | Pad holder screw | 2 pcs. | SC176A | Lock nut for bearing | 1 pc. |
| SC154b | Felt | 1 pc. | SC176B | Screw for nut | |
| SC155 | Push rod | 1 pc. | SC177 | Driver pulley (regular.S or F.S) | 1 pc. |
| SC156 | Push rod roll pin | 1 pc. | SC178 | Bushing for crankshaft | 1 pc. |
| SC157 | Pin for push rod | 1 pc. | SC179 | Shaft for crank | 1 pc. |
| SC158 | Spring for push rod | 1 pc. | SC180 | Washer | 2 pcs. |
| SC159 | Bottom plate | 1 pc. | SC181 | Bevelgear | 1 pc. |
| SC160 | Screw for bottom plate | 4 pcs. | SC182 | Needle roller bearing | 1 pc. |
| SC161 | Spreader | 1 pc. | SC183 | Stop ring | 1 pc. |
| SC162 | Spreader set screw | 1 pc. | SC185 | Driver shaft with gear | 1 pc. |
| SC163 | Main screw shaft tube cover (8" 10") . | 1 pc. | SC186 | Key for driver shaft | 1 pc. |
| SC164 | Cap for tube cover | | SC187 | Washer | |
| SC165 | Square shaft tube cover (8" 10") | 2 pcs. | SC188 | Helical gear for driver shaft | |
| SC169 | Cover for drive pulley | 1 pc. | SC189 | Gear with square hole | 2 pcs. |
| SC170 | Set screw for cover | | SC190 | Bushing for gear | |
| SC171A | Pulley crank | 1 pc. | SC184 | Nut for crankshaft | 1 pc. |

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| Part No. | Part Name | Q'ty | Parť No. | Part Name | Qʻty |
|-------------|---------------------------------------|--------|-------------|-------------------------------------|--------|
| SC113 | Main screw shaft (6''-8'' 10'') | 1 pc. | SC201 | Push rod adjusting nut | 1 pc. |
| SC114 | Adjusting nut for guide | 1 pc. | SC202 | Bushing for screw shaft | 1 pc. |
| SC115 | Guide for main screw shaft(6" 7"-10") | 1 pc. | SC203 | Bushing for intermediate gear | 1 pc. |
| SC116 | Washer for screw shaft nut | 1 pc. | SC204 | Oil screw | 1 pc. |
| SC117 | Nut for screw shaft (left) | 1 pc. | SC205 | Intermediate gear | 1 pc. |
| SC118 | Nut for screw shaft (right) | 1 pc. | SC206 | Metal plate for pulley bracket | 2 pcs. |
| SC119 | Thrust ball bearing | 2 pcs. | SC207A | Slide with pulley (left) | 1 pc. |
| SC120 | Thrust metal for screw shaft | 1 pc. | SC207B | Slide with pulley (right) | 1 pc. |
| SC121/ | A Collar for screw shaft (large) | 1 pc. | SC208 | Pin for pulley (192) | 2 pcs. |
| SC1216 | 3 Collar for screw shaft (small) | 1 pc. | SC209 | Spring for pulley slide (207) | 2 pcs. |
| SC1210 | C Roll pin for collar | 2 pcs. | SC210 | Set screw for pulley slide (207) | 2 pcs. |
| SC1664 | A Square shaft (6"-8" 10") | 1 pc. | SC211 | Adjustor bracket | 1 pc. |
| SC166E | Gear for square shaft (166-1) | 1 pc. | SC212 | Set screw for adjuster bracket | 1 pc. |
| SC1674 | A Square shaft (6"-8" 10") | 1 pc. | SC213 | Spring for adjuster bracket | 1 pc. |
| SC167E | 3 Shaft for square shaft (167-1) | 1 pc. | SC214 | Shoe for sharpening belt | 1 pc. |
| SC168I | _ Guide for square shaft (Left) | 1 pc. | SC215 | Shoe for sharpening belt | 1 pc. |
| SC168F | R Guide for square shaft (Right) | 1 pc. | SC216 | Tip for shoe (214AND215) | 2 pcs. |
| SC191 | Rear pulley for sharpening belt | 2 pcs. | SC217 | Riveting pin for shoe | 2 pcs. |
| SC192 | Front pulley for sharpening belt | 2 pcs. | SC218 | Collar for shoe (218-X.eccentric) | 2 pcs. |
| SC193 | Roll pin for pulley | 2 pcs. | SC219 | Screw for shoe | 2 pcs. |
| SC194 | Gear cover plate | 1 pc. | SC220A | Spring for sharpening shoe (214) | 1 pc. |
| SC195 | Screw for gear cover | 4 pcs. | SC220B | Spring for sharpening shoe (215) | 1 pc. |
| SC196 | Sharpening bracket | 1 pc. | SC221 | Nut for 219 | 2 pcs. |
| SC197 | Rubber ring for front pulley | 2 pcs. | SC222 | Screw for sharpening shoe | 2 pcs. |
| SC198 | Bushing for square shaft | 2 pcs. | SC223 | Screw for side roller bracket (224) | 2 pcs. |
| SC1994 | A Roller | 1 pc. | SC224 | Side roller bracket | 2 pcs. |
| SC199E | B Roller bracket | 1 pc. | SC225 | Plastic roller | 2 pcs. |
| SC1990 | Washer for roller | 2 pcs. | SC226 | Pin for plastic roller (225) | 2 pcs. |
| SC1990 | O Roller bracket screw | 2 pcs. | SC233 | Cloth abrasive belt | 2 pcs. |
| SC200 | Push rod adjusting screw | 1 pc. | | | |

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