

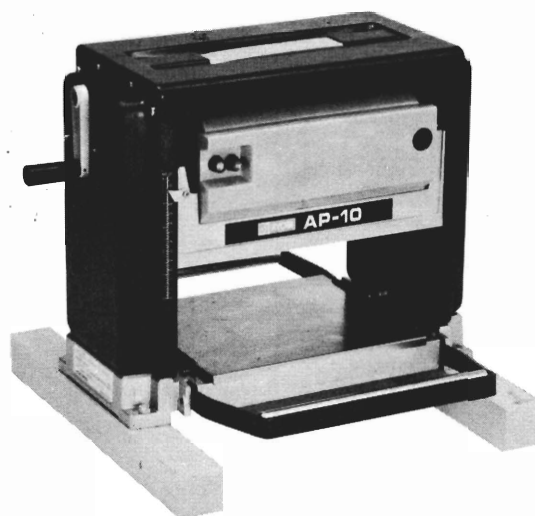
# OWNER'S OPERATING MANUAL

## PLANER / AP-10

DOUBLE INSULATED



アメリカ



### SAFETY INSTRUCTIONS

**WARNING:** When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following.

**SAFETY FIRST**—Read all instructions thoroughly and learn the applications, operating limitations and potential hazards of this tool before attempting to operate it.

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.
9. WEAR PROPER APPAREL. No loose clothing, gloves, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
10. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
11. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
12. DON'T OVERREACH. Keep proper footing and balance at all times.
13. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
14. DISCONNECT TOOLS before servicing; when changing accessories such as blades, bits, cutters, etc.
15. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.
16. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
17. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
18. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function—check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation.  
A guard or other part that is damaged should be properly repaired or replaced.
19. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
20. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.
21. SECURE THE TOOL TO THE SUPPORTING STRUCTURE IF, during normal operations, there is any tendency for the tool to tip over, slide, or walk on the supporting surface.
22. Wear eye protection.
23. Never perform planing operation with cutter head or drive guard removed.
24. Never make planing cut deeper than 5/32 inch (2.5 mm).
25. Do not perform planing operations on material shorter than 14 inches (355mm), narrower than 3/4 inch (19mm), or wider than 10 inches (254mm) or thinner than 1/2 inch (13mm).
26. Maintain the proper relationship of infeed and outfeed table surfaces and cutter head knife path.
27. Support the work piece adequately at all times during operation; maintain control of the work at all times.
28. Do not back the work toward the infeed table.
29. Do not attempt to perform an abnormal or little-used operation without sturdy and the use of adequate jigs, fixtures, stops, and the like.
30. THIS TOOL IS INTENDED FOR RESIDENTIAL USE ONLY.
31. WHEN SERVICING USE ONLY IDENTICAL REPLACEMENT PARTS.

## ● SUPPLEMENTARY INSTRUCTIONS FOR SAFE HANDLING

1. Make sure a tool is only connected to the voltage marked on its name plate.
2. Never use a tool if its cover or any bolts are missing. If the cover or bolts have been removed, replace them prior to use. Maintain all parts in good working order.
3. Always secure tools when working at elevated positions.
4. Never touch the blade or other moving parts during use.
5. Never start a tool when its rotating component is in contact with the workpiece.

## ● PLANER SAFETY PRECAUTIONS

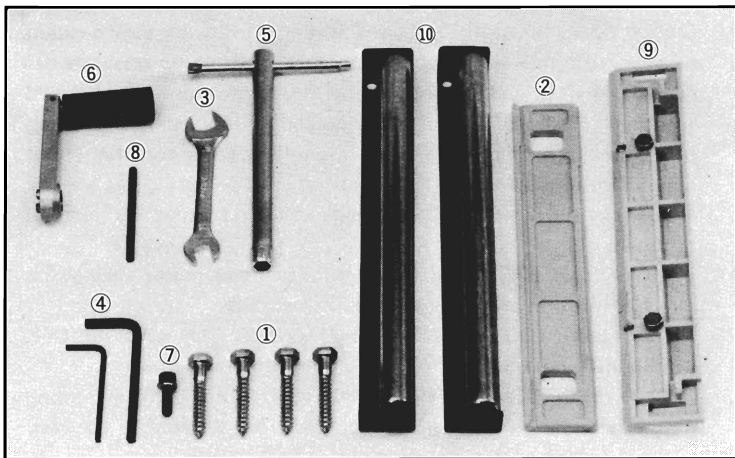
1. Make sure workpiece is free from nails and other foreign objects which could break the blade.
2. Make sure blade is properly attached as described in the operating instructions before connecting to a power supply.
3. Be careful not to cut your hand on the blade when installing or removing the blade.
4. Never put your finger into the chip exhaust outlet. The blade rotates at extremely high speeds.
5. Press switch and allow the blade to reach full speed before using.

## ■ SPECIFICATIONS

Input	1,350 watt
No load speed	8,000 r.p.m.
Feed speed	8 m (26.24 ft.)/min.
Planing capacities	
Planing width	254 mm (10")
Planing height	127 mm (5")
Planing depth	0 - 2.5 mm
Overall dimensions (L x W x H)	490 mm x 476 mm x 412mm (19-5/16" x 18-3/4" x 16-1/4")
Net weight	26 kg (57.2 lbs.)

## ■ STANDARD ACCESSORIES

- ① Hex. head screws, ② Set gauge, ③ Double ended spanner, ④ Hex. wrench keys, ⑤ "T" type wrench, ⑥ Handle, ⑦ Hex. socket head bolts, ⑧ Lockpin, ⑨ Sharpening holder, ⑩ Supporting rollers.



## ■ PLANER

### ● APPLICATION

(Use only for the following purposes.)

1. Wood planing.

### ■ HOW TO SET UP THE MACHINE

#### (1) How to fix the base wood to the machine.

- a) Open the top of carton, and take out the main body from the carton holding the carrying band on top of the machine.
- b) Take out the base woods from the carton and put them under the machine matching the hole on wood with the hole on the bottom of machine.
- c) Put down the rollers, and take the accessory box out which is put on the base plate of machine.  
Take out the hexagonal head screws for wood in the accessory box. Spike-in the screw to base woods leaving 8 - 10mm working distance for final tightening of the screw.
- d) Tighten the screw fully by using the spanner provided in the accessory box.

#### (2) How to mount the handle.

- a) Take out handle, hexagonal socket head bolt, spring washers and hex. wrench key 5mm from the accessory box.
- b) Put the handle assembly to the shaft matching the guide on the shaft and handle assembly.
- c) Secure the handle assembly to shaft by hex. wrench key 5mm using hex. socket head bolt and spring washer.

#### (3) How to mount the dust cover

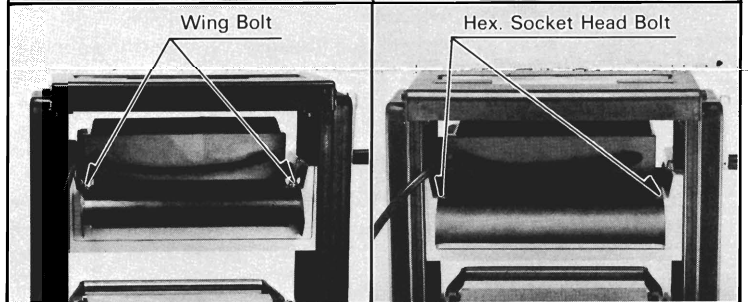
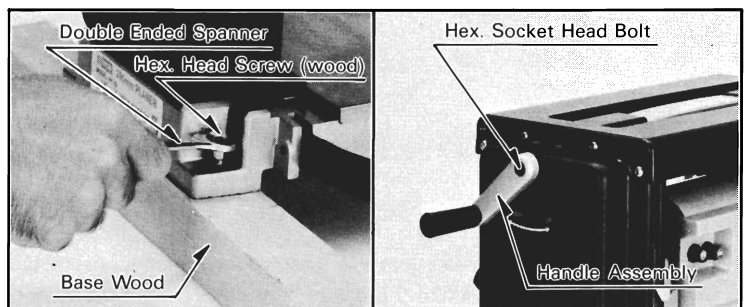
- a) Take out the dust cover and 2 wing bolts from the accessory box.
- b) Mount the dust cover on the back of main body by fixing 2 wing bolts.

#### \* For Canada only

- a) Take out the dust cover, 2 hex. socket head bolts and hex. wrench key from the accessory box.
- b) Mount the dust cover on the back of main body by fixing 2 hex. socket head bolts.

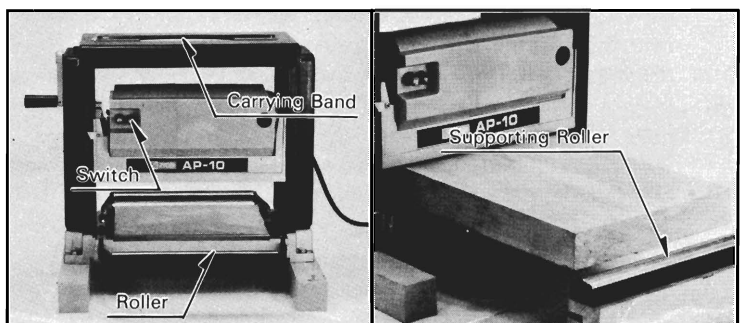
#### (4) [Note]

- a) Make sure that the switch is in off position.
- b) When replaced the cutter blades, make sure the blade screw is securely tightened.



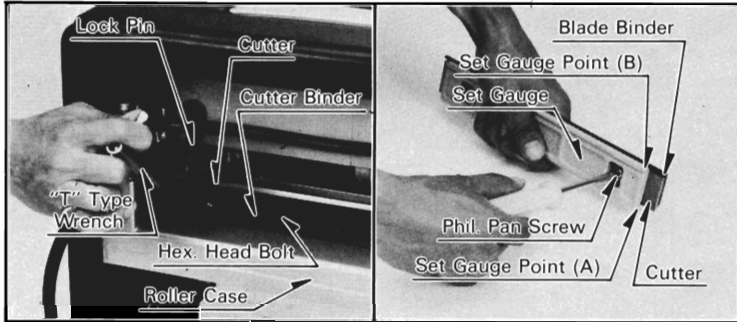
## ■ HOW TO USE

- 1) Insert the plug into the power supply.
- 2) Adjust the position of blade to the thickness of material to plan by using the handle.
- 3) Then turn-on the switch and feed in the material to plan through roller.  
[Note]  
During the planing, make sure the material is well balanced by holding at front or rear.  
(If not well balanced, it will cause un-even surface at the beginning and at the end of material.)
- 4) Plan the material front and back surface by turns until the desired thickness.
- 5) After finishing the work, turn off the switch and pull out the plug from power supply.
- 6) For easy feed back of the material for next planing, use the top of machine as for sliding plate.



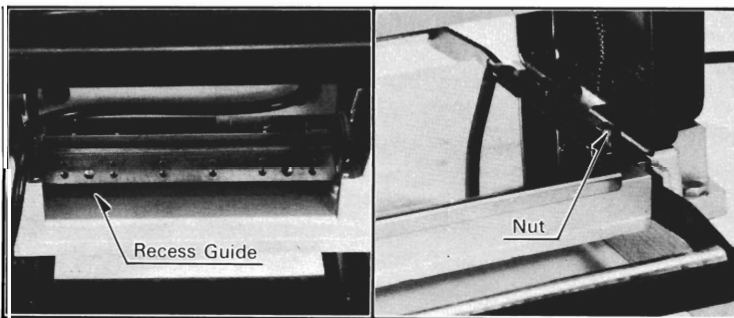
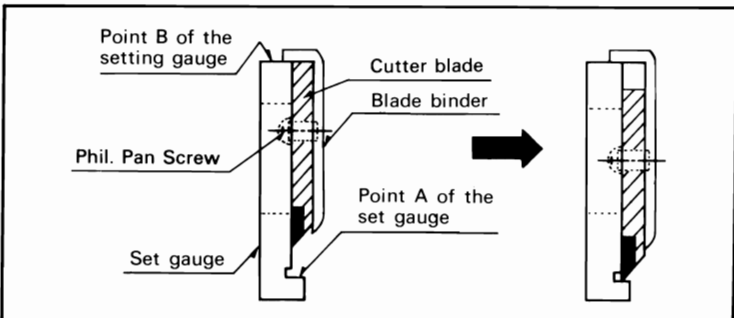
## ■ REPLACEMENT OF THE CUTTER BLADE

- 1) Lower the cutter blade section to about half the height.
- 2) Loosen the hex. socket head bolt of the dust cover on the back of main body and remove the dust cover.
- 3) Insert the lock-pin to the hole located on left side wall of the cutter block.  
Lock the cutter block by turning the belt cover.
- 4) Loosen the hex. head bolt by "T" type wrench.  
Remove the bolt and take out the cutter.
- 5) Remove the locking pin and turn the cutter block 180° and lock the cutter block again by same manner mentioned in 3).
- 6) Take out the cutter on other side by same manner mentioned in 4).
- 7) Mounting of the cutter blade is as per reverse procedure explained above.



## ■ ADJUSTMENT OF CUTTER ALIGNMENT

- 1) Loosen the hex. socket head bolts of the dust cover on the back of main body and remove the dust cover.  
Make matching point (B) of set gauge to (A) side of blade binder and adjust the blade position to touch the point (A) of set gauge.  
Then secure the cutter to the blade binder by phil. pan screw.
  - 2) Mount the cutter to the cutter block by matching the recess guide of cutter block and convex guide of blade binder, then secure them by hex. head bolt using "T" type wrench.
- \*Be sure to remove the lock pin and make the cutter block free after adjustment.



## ■ ADJUSTMENT OF ROLLER HEIGHT

The height of roller is adjusted before dispatching. However, if height of roller lowered than the height of base, please adjust the height of roller again making 0.2 - 0.4mm higher than the height of base.

- 1) Loosen the nut on the screw which holding the roller link, and adjust the height of roller by turning the screw to desired level.  
Then tighten the nut again.  
Use double ended spanner and hex. wrench key 3mm for this purpose.

## ■ MAINTENANCE AND INSPECTION OF THE MACHINE

### 1) Cutter Blade

If a dull blade is used, strain will be placed on the motor and the machine operation efficiency will be lowered. Therefore sharpen the Cutter Blade or replace it with a new one. When the replacing blade as there are two, both must be replaced as a set.

### 2) Use of the Manual Sharpening Holder

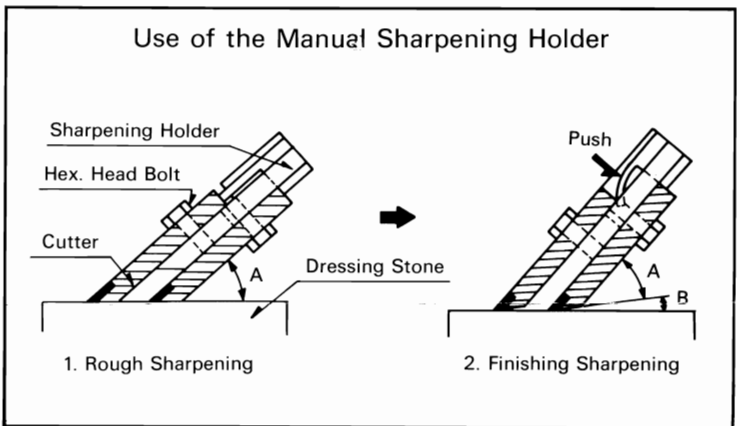
After finishing the rough sharpening, fit the blade to the finishing sharpening position on the manual Sharpening Holder as shown in the illustration and then only the edges of the Cutter Blades can be sharpened. To assure the efficient operation of the machine the blades must be kept properly sharpened.

After sharpening the Cutter Blades, they should be kept in top condition. Be sure rust does not form on them. When the machine is not going to be used for an extended period of time, first clean the blades thoroughly and then apply oil on them to keep them in good condition.

### 3) Cleaning the Machine

After using the machine all of the wood chips and saw dust must be cleaned off the head height adjustment threaded rod, rollers, and height adjustment gears.

Always keep the machine clean to assure top operating efficiency.



## ■ MAINTENANCE AND INSPECTION

### ● CUTTER

When the cutter blade becomes dull and is used in this condition, certain load will be applied to motor and other components reducing the efficiency. In such case, regrind the cutter at an early stage or replace with a new one.

For grinding the cutter with the sharpening holder for manual grinding, firmly mount the cutter on the sharpening holder and adjust so that the two cutter blades contact the stone at the same time.

When replacing the cutter, replace the two cutters as a set.

When the new cutter and the one frequently reground are combined as a set and used for grinding, the balance of the cutter is affected causing vibration or reducing the life of the machine.

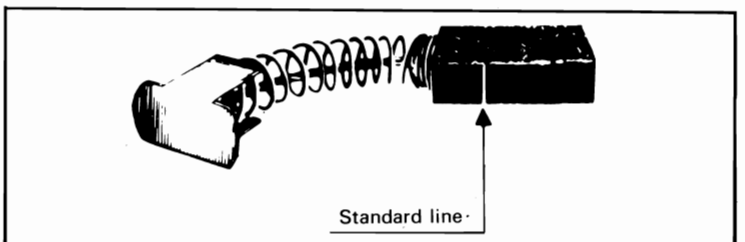
### ● CLEANING AND LUBRICATION

Always keep clean the feed roller section, table roller section, dust cover section, and other threaded sections to prevent chips, dust, and other dirt from attaching.

Occasionally lubricate the sliding sections such as the elevating screws, etc.

- Do not let water or oil get into the inside of motor.

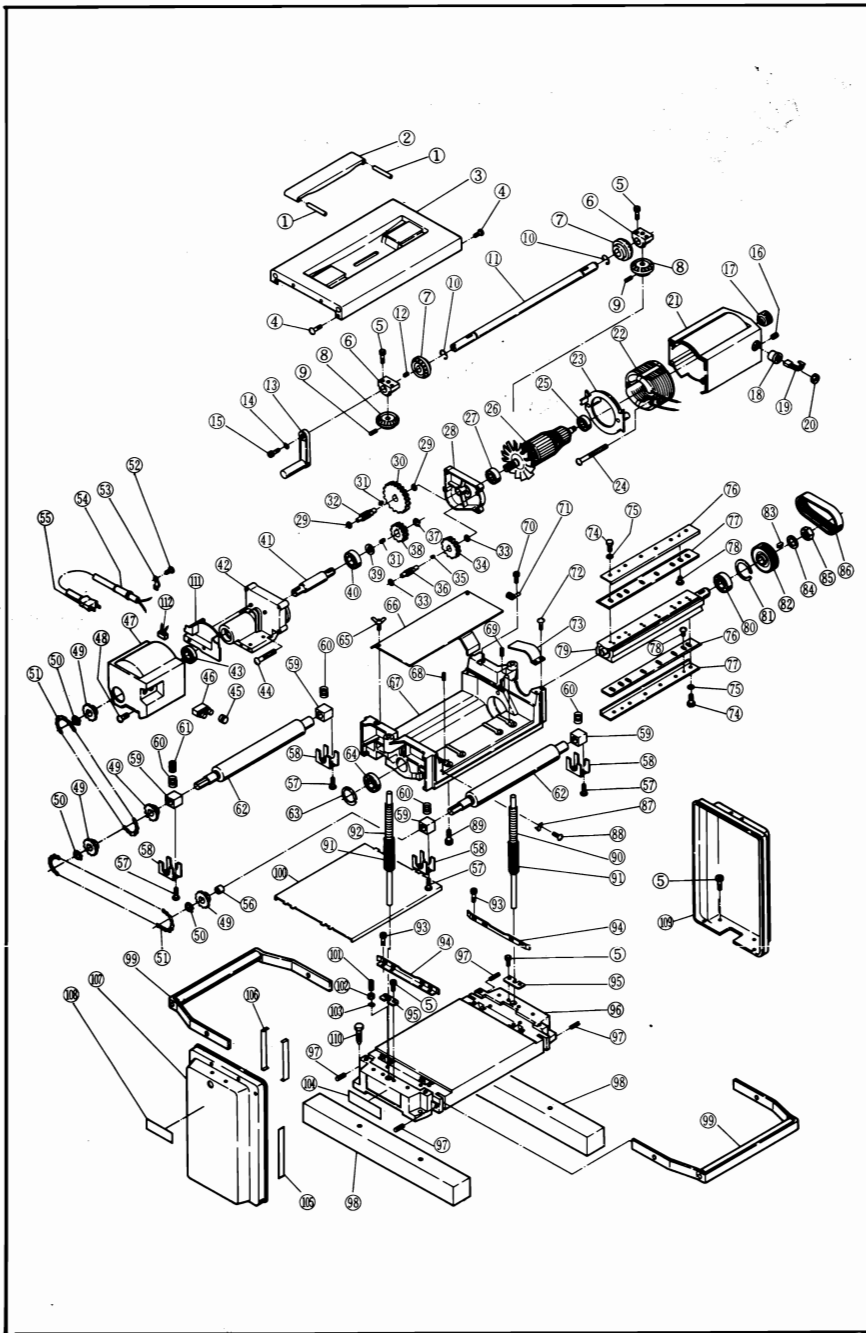
- Replace the carbon brush when worn down to this line.



## ■ WARNING

To assure safety and reliability, all repairs with the exception of externally accessible brushes should be performed by AUTHORIZED SERVICE CENTER or other QUALIFIED SERVICE ORGANIZATIONS.

# EXPLODED VIEW & PARTS LIST



Ref.No.	Description	Ref.No.	Description
1	Parallel Pin 5×50	57	Tapping Screw (S) M5×12
2	Aux. Handle	58	Metal Cover
3	Cover	59	Straight Metal
4	Tapping Screw (S) M5×10	60	Coil Spring (B)
5	Hex. Socket Head Bolt M6×12	61	Coil Spring (C)
6	Holder	62	Feed Roller
7	Bevel Gear (A)	63	Retaining Ring (C) R-35
8	Bevel Gear (B)	64	Ball Bearing #6202LLB
9	Spring Pin 4×25	65	Wing Bolt M5×12
10	Retaining Ring (E) 12	66	Dust Cover
11	Handle Shaft	67	Roller Case
12	Parallel Key	68	Parallel Pin (A) 5×6
13	Handle Ass'y.	69	Parallel Pin (B) 5×12
14	Spring Washer M6	70	Hex. Socket Head Bolt M6×12
15	Hex. Socket Head Bolt M6×20	71	Cord Stand
16	Set Screw M5×8	72	Tapping Screw (S) M4×10
17	Pulley	73	Belt Cover
18	Brush Holder	74	Hex. Head Bolt M6×17
19	Carbon Brush Set (2pcs/set)	75	Washer
20	Brush Cap	76	Blade Binder
21	Motor Housing	77	Cutter Blade
22	Field Coil Ass'y.	78	Phil. Pan Screw M5×8
23	Fan Casing	79	Cutter Block
24	Tapping Screw M5×70	80	Ball Bearing #6203LLB
25	Ball Bearing #6201LLB	81	Retaining Ring R-40
26	Armature Ass'y.	82	Pulley (L)
27	Ball Bearing #6200LLB	83	Parallel Key 4×4×12
28	Inner Cover Ass'y.	84	Conical Spring Washer
29	Thrust Washer 8×0.5	85	Hex. Nut
30	Final Gear (2)	86	V Belt
31	Parallel Key 4×4×10	87	Scale Arrow
32	Pinion (II)	88	Tapping Screw (S) M4×10
33	Thrust Washer 6	89	Hex. Socket Head Bolt M6×20
34	Final Gear (1)	90	Screw (L)
35	Parallel Key	91	Coil Spring (A)
36	Pinion Shaft (I)	92	Screw (R)
37	Retaining Ring (C) S-15	93	Hex. Socket Head Bolt M6×12
38	Final Gear (3)	94	Guide Plate
39	Thrust Washer 15	95	Set Plate
40	Ball Bearing #6202ZZ	96	Base
41	Gear Shaft	97	Spring Pin 6×20
42	Gear Case Ass'y.	98	Stock
43	Ball Bearing #6002ZZ	99	Roller Ass'y.
44	Tapping Screw (B) M5×50	100	Slide Plate
45	Switch Guard	101	Set Screw M6×16
46	Switch	102	Hex. Nut M6
47	Switch Case	103	Spring Washer Ø6
48	Tapping Screw (S) M4×12	104	Name Plate
49	Chain Sprocket	105	Mark Plate
50	Retaining Ring (C) S-15	106	Spacer
51	Chain	107	Cover (R)
52	Tapping Screw (B) M4×16	108	Plate
53	Cord Clamp	109	Cover (L)
54	Cord Holder	110	Wood Screw
55	Cord Ass'y.	111	Switch Cover
56	Collar	112	Condenser

PRODUCED BY



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