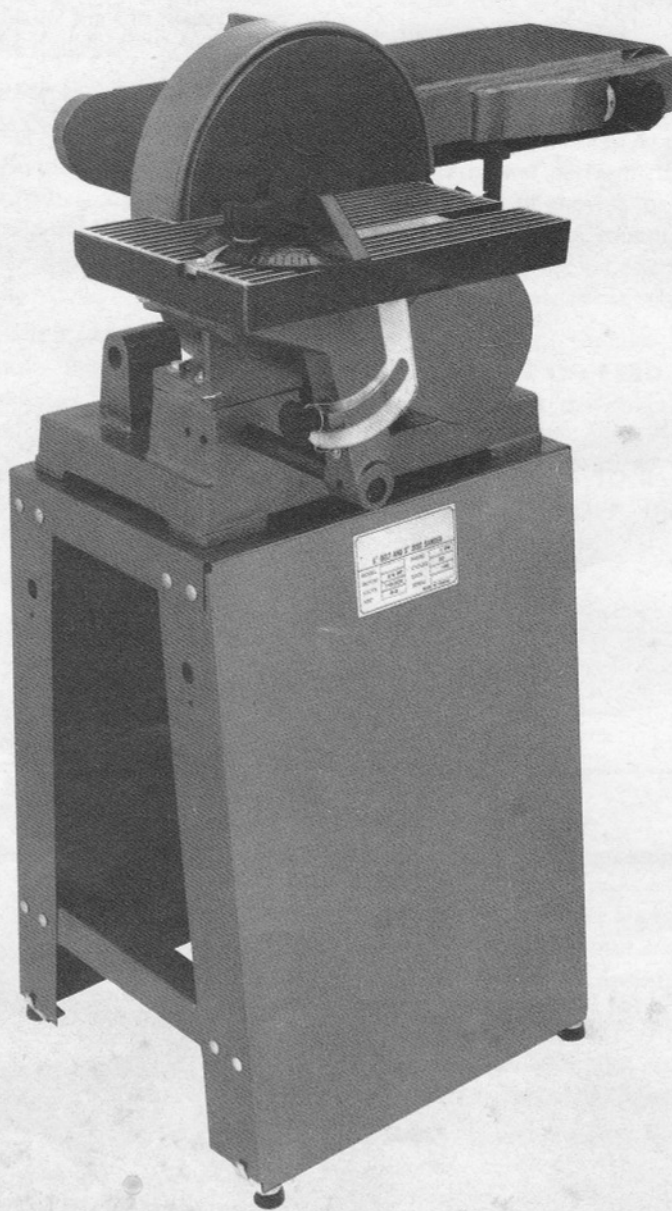


INSTRUCTION MANUAL

6" Belt And 9" Disc Sander



Before Using Be Sure To Read This Manual.

This Machine is Suitable To Use Only From 12° C ~ 35° C (53.6° F ~ 95° F).

Safety Rules

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 location, 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. Nonslip 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.
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—chuck 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.

Special Safety Rules for Sander

1. Wear eye protection.
2. Support workpiece with backstop or work table.
3. Maintain 1/16 inch maximum clearance between table and sanding belt or disc.
4. Hold the work firmly, so that it may not be driven from your hands.
5. In operation, do not press on the belt. Excessive pressure against the belt is never necessary. It will only result in damage to the belt or work piece.
6. In home where there are small children, a good practice is to unplug the motor and remove the drive belt when the sander is not in operation.
7. Feed workpiece against rotation of sander.
8. Connect to a supply circuit protected by a circuit breaker or time-delay fuse.
9. Fasten stand or sander base to floor before using the sander.

Grounding Instructions

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripe is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
4. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

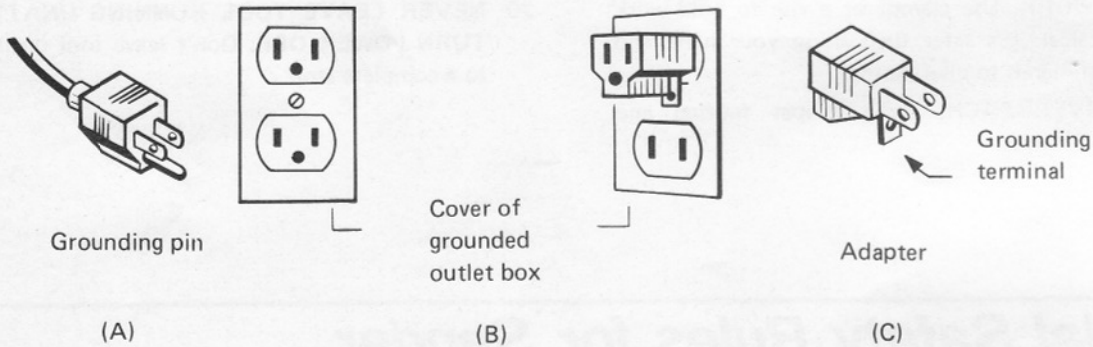
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.
7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in sketch A. The tool has a grounding plug that looks like the plug illustrated in sketch A. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect his plug to a 1-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, etc. extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

Note:

The type of electrical plug and receptacle differs from country to country.

Caution:

In Canada only the grounding shown in figure (A) is acceptable. The extension cords should be CSA certified S.J.T. type or something better.



Your Sander

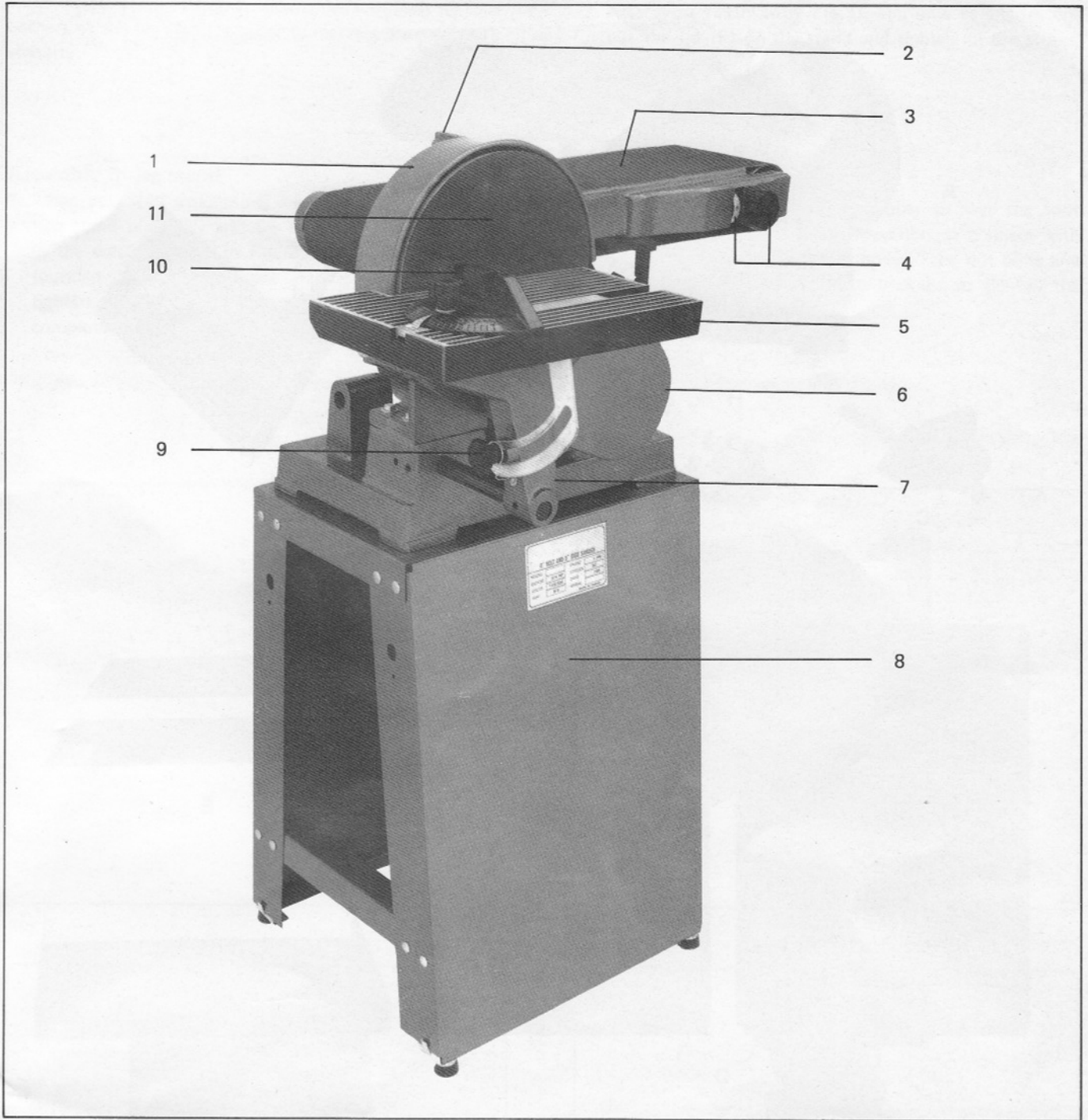


Fig. 1

- | | |
|-----------------|--------------------|
| 1. Disc guard | 7. Table supporter |
| 2. Backstop | 8. Stand plate |
| 3. Sanding belt | 9. Knob |
| 4. Adjust knob | 10. Miter gauge |
| 5. Work table | 11. Sanding disc |
| 6. Motor | |

Unpacking

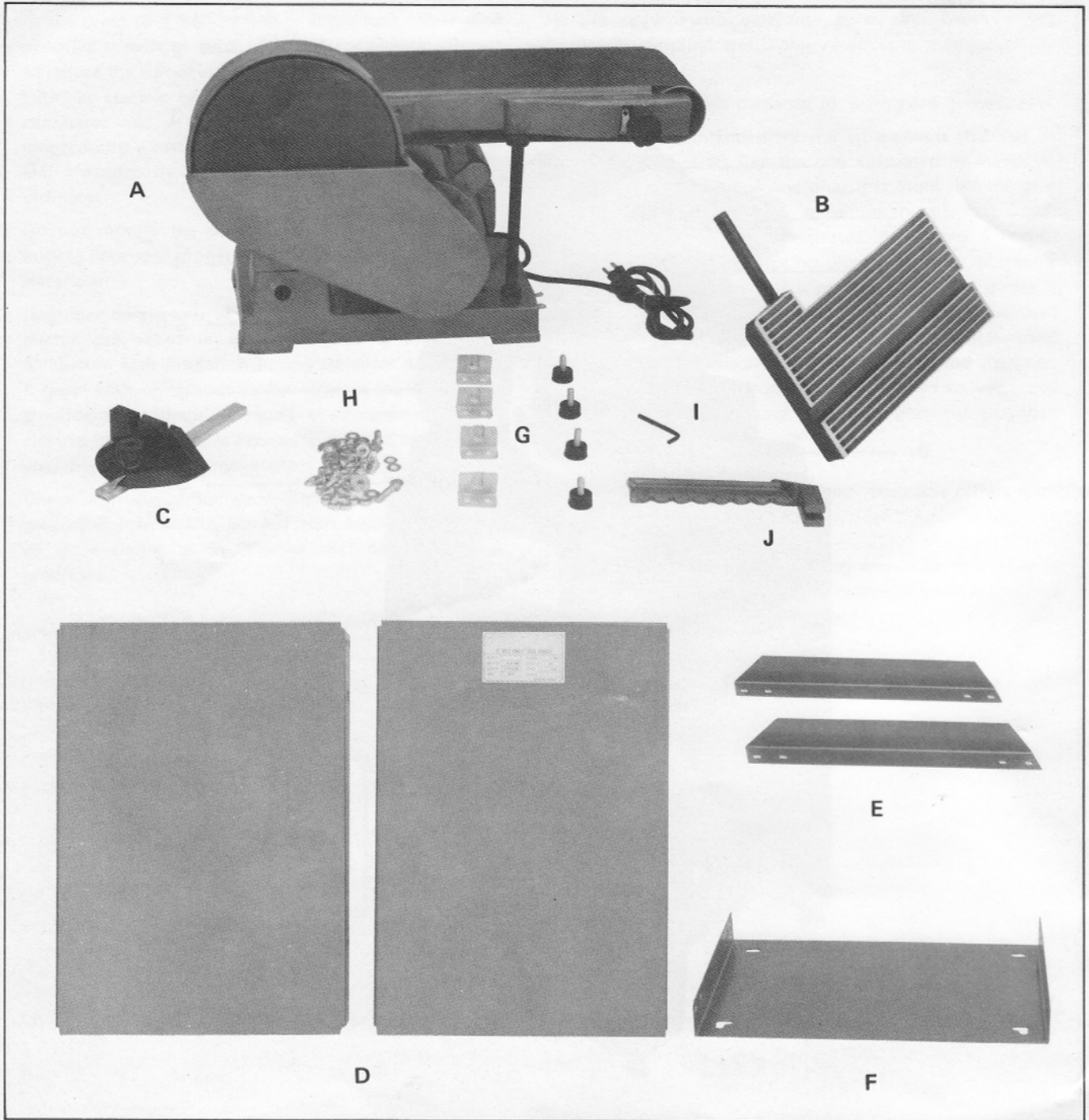


Fig. 1

Carefully unpack the sander and check all items, Figure 1 illustrates the contents of the carton. Do not discard any packing material until the sander is fully assembled and operational.

- | | |
|------------------|---------------------|
| A. Body | F. Lid |
| B. Work table | G. Bolts & washers |
| C. Miter gauge | H. Hardware package |
| D. Stand plate | I. Allen wrench |
| E. Stand bracket | J. Backstop |

Assembly

Refer to direction of Fig. 2, mount the foot pads on four corners of the leg stand in order to increase the machine's stability.

Assembly of leg stand

1. When you start assembling the leg stand, assemble the two stand plate (D) and the two brackets (E) together in the way as shown in Fig. 3. screws and nuts can be founded in your hardware package. Please do not tighten the screws first, have them tighten after you completed the assembly.

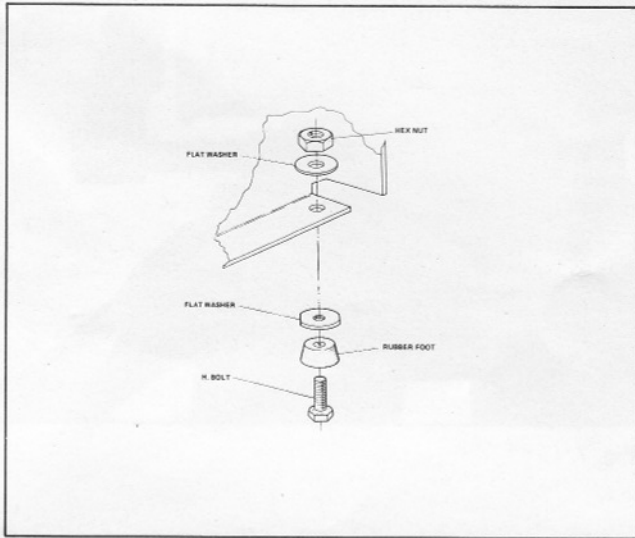


Fig. 2



Fig. 3

2. After you finish with Fig. 3, continue to Fig. 4, and put the lid (F) on the stand and tighten all the screws.

Assembly of stand and body

Put the body on the stand, remember to have the four holes on the lid at the proper position to connect with the four threaded holes on the body. Take out bolts and washers (G) from the hardware package to tighten the stand and the body as Fig. 5.



Fig. 4

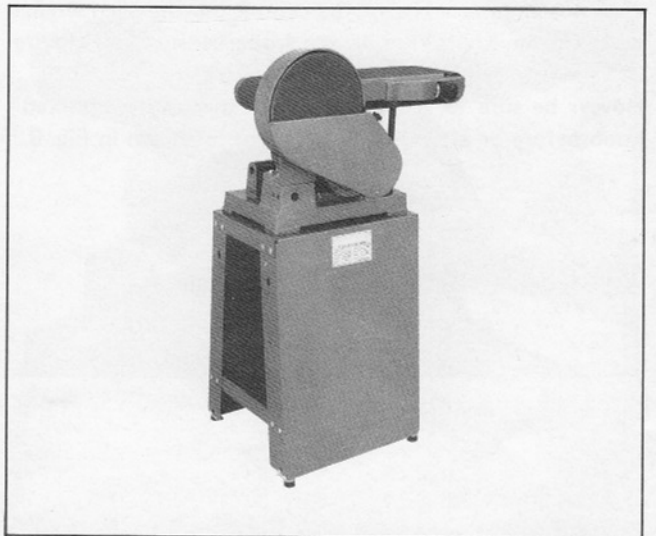


Fig. 5

Assembly of backstop

Mount the backstop on the body as shown in Fig. 6. and remember to tighten the screw. This backstop can keep you safer when grinding.

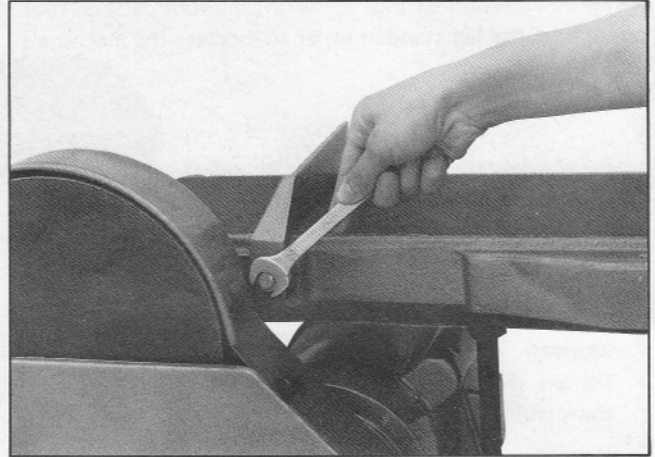


Fig. 6

Assembly of work table

Loosen the two set screws as in Fig. 7. insert the table's rod in the hole but remember to have the flat surface of the shaft facing the set screw. Tighten the two set screws, beware that you should have a space of 1/16" (13mm) left in between the table and the sanding disc.

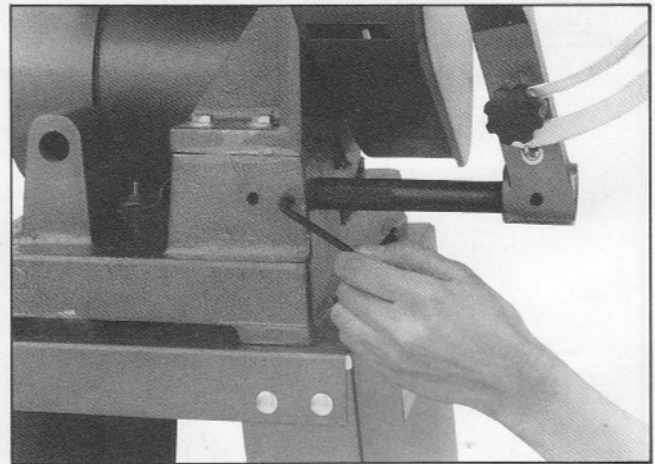


Fig. 7

Horizontal and tension adjustment of sanding belt

If you find that the sanding belt is too tight, too loose or even not align properly at the central, use the allen wrench to adjust the adjust knob to the proper tension you require.

Howevr be sure to loose and tighten the additional fixed knob before or after your adjustment as shown in Fig. 8.

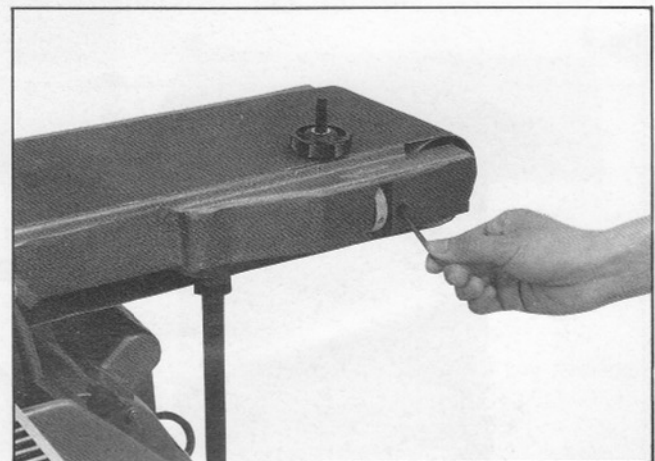


Fig. 8

Sanding belt replacement

Repeat the same procedure as in Fig. 8, Loosen the belt and take the old belt out. After replaced a new belt, make sure that the belt has its proper tension. Refer to Fig. 9.

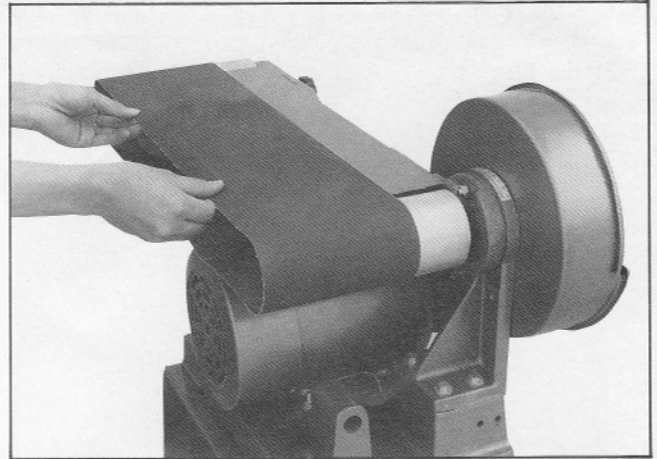


Fig. 9

Sanding disc paper and V-belt replacement

1. Loosen the knob and open the disc cover as shown in Fig. 10.

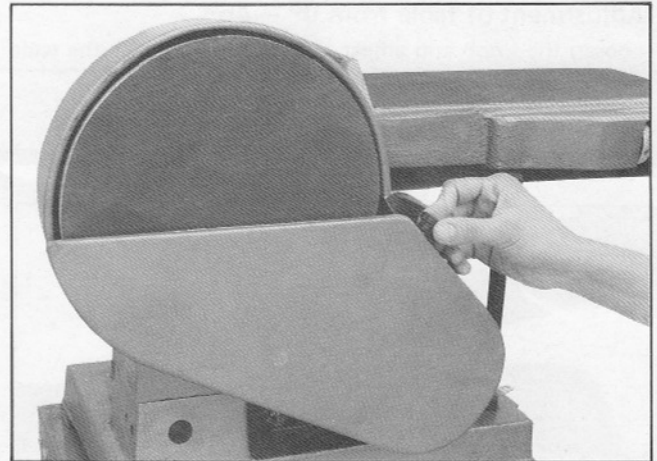


Fig. 10

2. Tear off the old sanding paper, clean off the glue remain on the disc and put on the new sanding paper as Fig. 11.

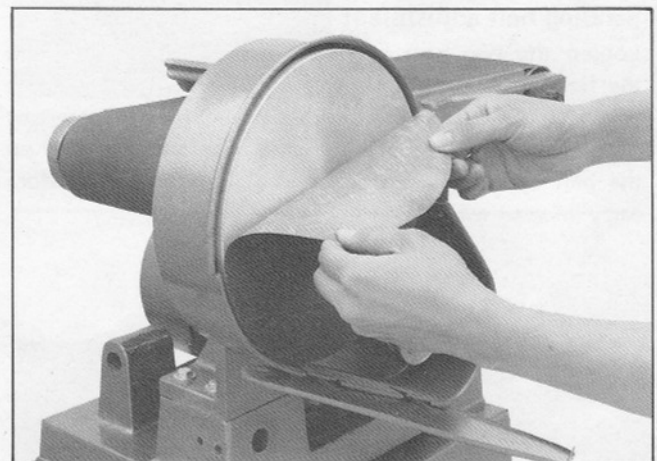


Fig. 11

3. Use the allen wrench as shown in Fig. 12, insert the wrench in the rectangular window opened at the bottom of the disc cover. Loosen the set screw inside and take off the sanding disc. When you are going to put the disc back, remember that the set screw must mount on the flatness side of the shaft and tighten.

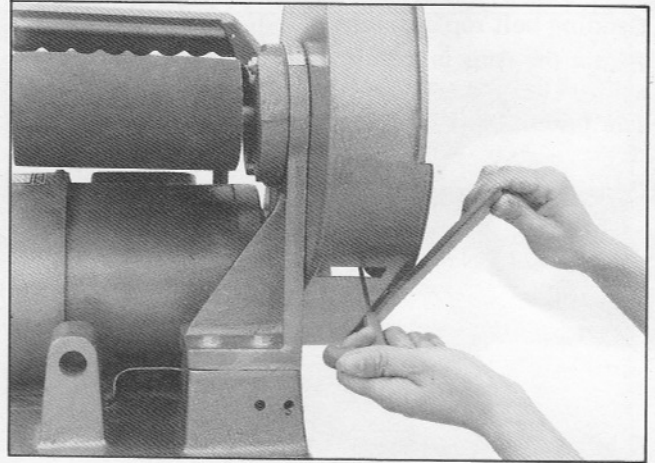


Fig. 12

Adjustment of table from 0° – 45°

Loosen the knob and adjust the table till it reach the scale you demand (varies from 0°–45°) and tighten.

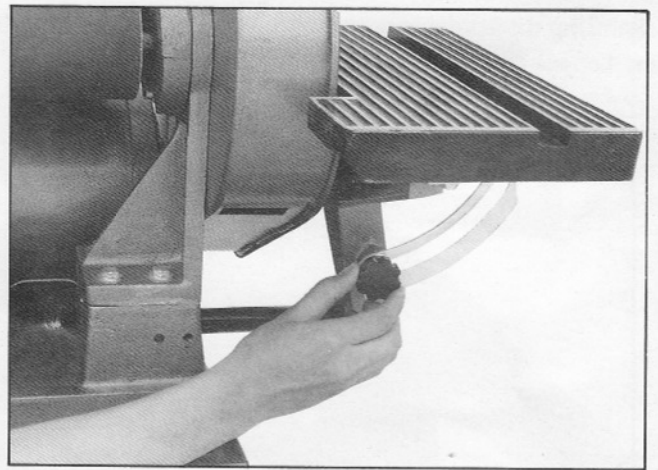


Fig. 13

Sanding belt adjustment

Loosen the two nuts as shown in Fig. 14 (as shown in the figure you can see only one nut, another one is down below at the bottom of the disc cover, follow the arrow instruction). After you loosen the nuts, you can pull up the belt in vertical position and tighten the nuts before carry on your work.

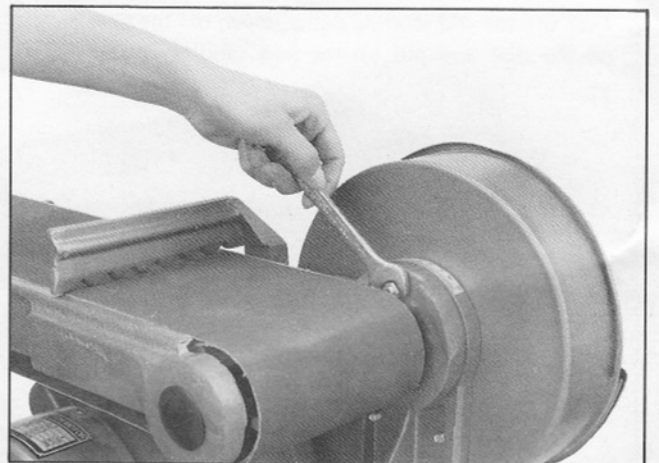


Fig. 14

Exchanging of table position

When the belt is in vertical position, you can move the table to the front of the belt. First of all, loosen the screw and move to the position as in Fig. 15. Tighten the set screw but take notice on the 3mm space left in between the belt and the table.

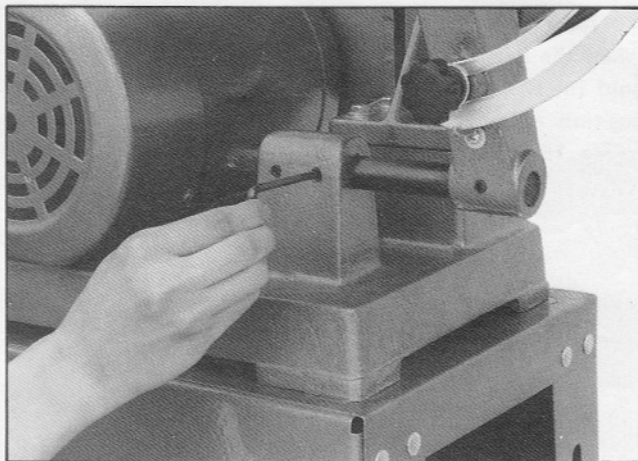


Fig. 15

Operation

Horizontal grinding

Put your work piece on the belt and assist with the back-stop to back up the work piece. When start operation, beware the safety of your hands. Do not push too hard on the work piece for the belt works better without enforcement of overdoing the job. Fig. 16.

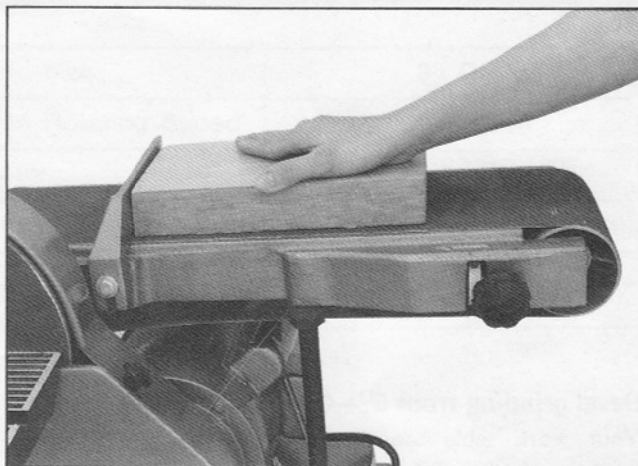


Fig. 16

Curve grinding

Use the very end of the belt to help your curve grinding as shown in Fig. 17.

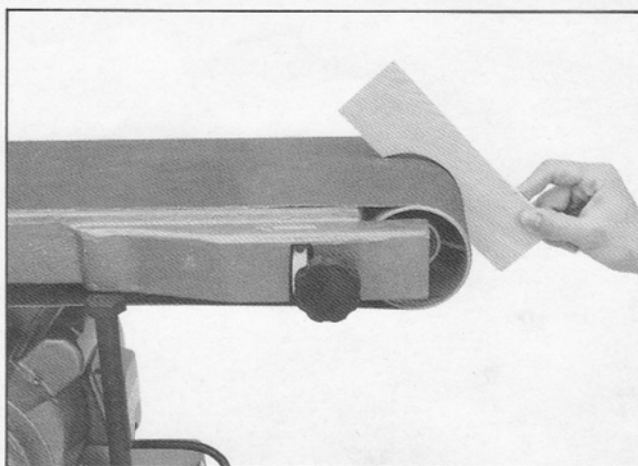


Fig. 17

Vertical grinding

When the belt is in vertical position, use the backstop to hold the work piece or you can use exchanged work table position as shown in Fig. 15 to aid your grinding. Refer to Fig. 18.

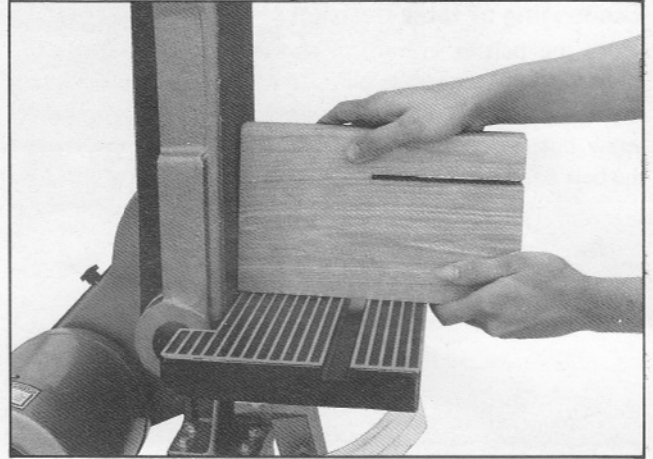


Fig. 18

Disc horizontal grinding

Put the work piece on the work table as shown in Fig. 19. And start your abrasive work straightly. This is suitable for small area abrasive.



Fig. 19

Bevel grinding from 0°–45° of work table

Your work table can do bevel grinding from 0°–45° as shown in Fig. 20. After adjustment beware to tighten the set screw in order not to affect your security and precise grinding.

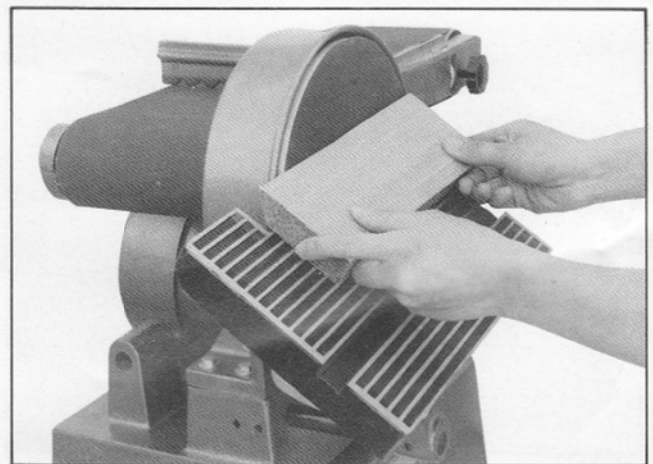


Fig. 20

Swivel grinding of 0° – 60° from left to right

Use the miter gauge to work with the table and you can obtain angle grinding from 0°–60° as in Fig. 21. Beware to have the knob tighten after angle adjustment of the miter gauge.

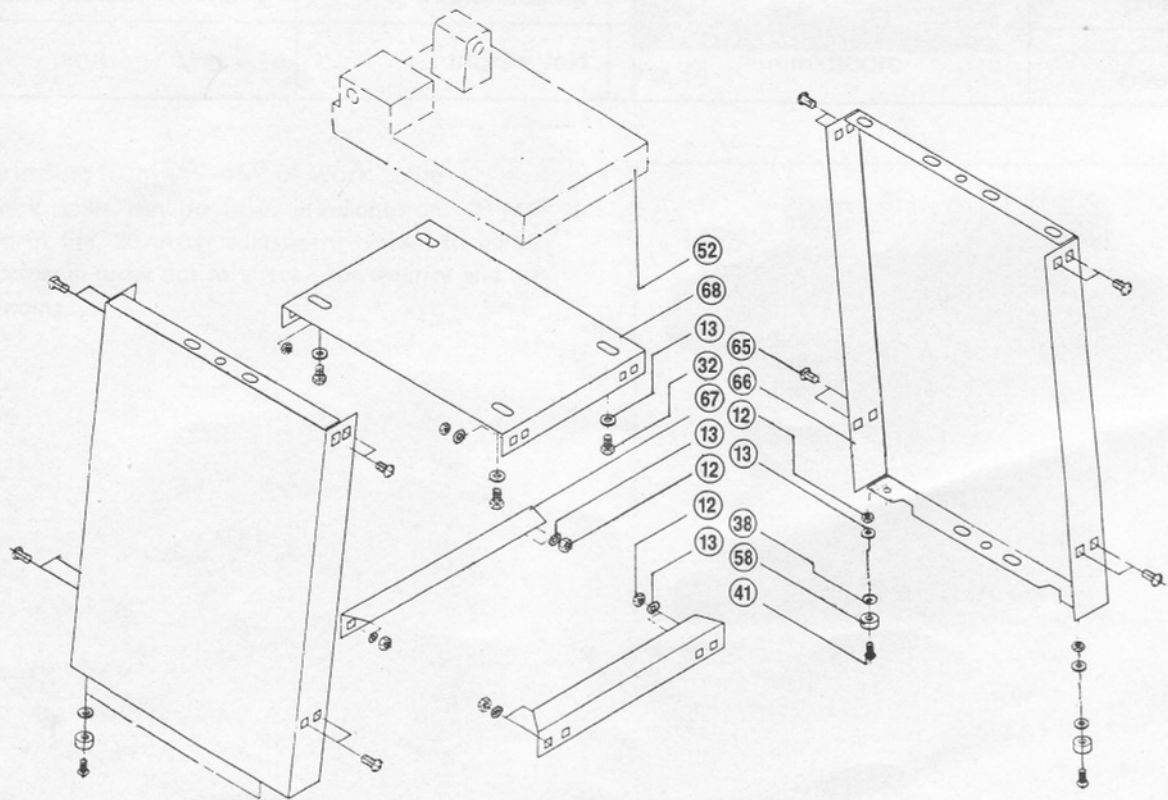
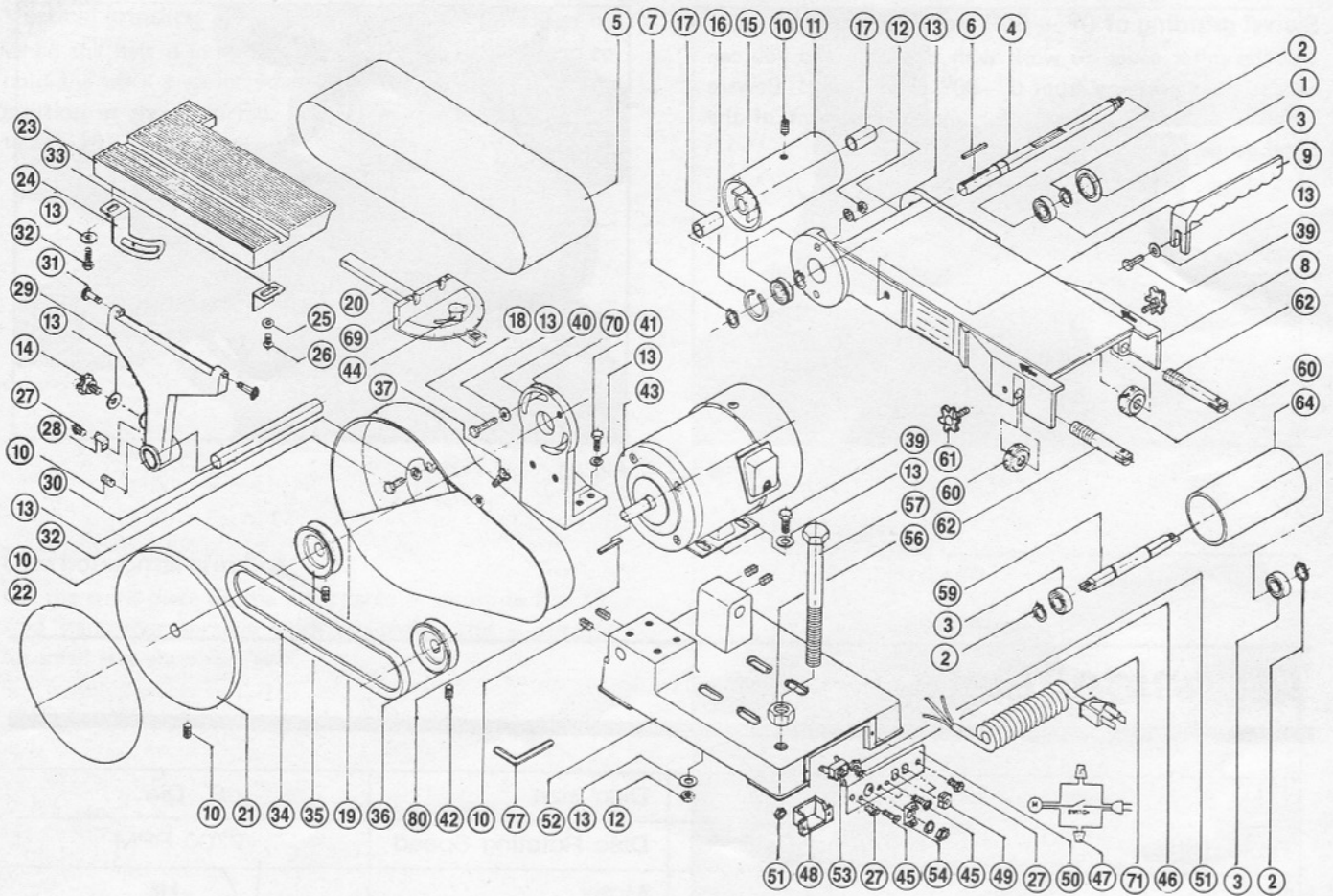


Fig. 21

Technical Data

Table Size	6 1/4" × 12"	Disc size	9" Dia.
Table Tilting	0° – 45°	Disc Rotating Speed	2700 RPM
Belt Size	6" × 48"	Motor	1/2 HP
Belt Tilting	0° – 90°	Measurement	710mm × 460mm × 380mm
Belt Speed	2100ft/min	Net weight	5.2 kgs.

Assembly Diagram and Parts List



Parts No.	Description	Q'ty	Parts No.	Description	Q'ty
1	Rubber cover	1	38	Washer	4
2	Retaining ring S12	3	39	Screw 5/16"x1¼"	5
3	Ball bearing 6201ZZ	3	40	Bracket	1
4	Driving roller shaft	1	41	Screw 5/16"x1"	8
5	Sand belt 48"	1	42	Set screw 1/4"x3/8"	1
6	Key 5x5x40	1	43	Motor	1
7	Retaining ring S15	2	44	Knob 1/4"x5/8"	1
8	Sand belt frame	1	45	Screw 3/16"x3/4"	3
9	Back stop	1	46	Washer 3/16"	1
10	Set screw 5/16"x3/8"	9	47	Wire connector	1
11	Driving roller	1	48	Switch box	1
12	Nut 5/16"	26	49	Plastic sleeve	2
13	Washer 5/16"	36	50	Switch plate	1
14	Knob 5/16" x 5/8"	1	51	Nut 3/16"	3
15	Ball bearing 6202ZZ	1	52	Base	1
16	C-snap ring S35	1	53	Switch	1
17	Tube	2	54	Switch stand	1
18	Screw 5/16"x1½"	2	56	Nut 5/8"	1
19	Pulley cover	1	57	Support bolt 5/8"x9"	1
20	Miter bar	1	58	Rubber	4
21	Sand disc	1	59	Idler roller shaft	1
22	Sand paper	1	60	Adjust nut	2
23	Table	1	61	Knob 3/8"x1¼"	2
24	Angle gauge	1	62	Roller adjust bar	2
25	Washer 1/4"	2	63	Spring pin ø5	3
26	Screw 1/4x1/2	2	64	Idler roller	1
27	Pan screw	4	65	Screw 5/16"x1/2"	16
28	Pointer	2	66	Stand	2
29	Table support bracket	1	67	Frame	2
30	Support bar	1	68	Stand plate	1
31	Pin	2	69	Miter guide	1
32	Screw 5/16"x1/2"	8	70	Angle label	1
33	Table mount	2	71	Power cord	1
34	V-belt A-23	1	77	Hex. wrench	1
35	Pulley	1	80	Key 5x5x20	1
36	Motor pulley	1			
37	Knob 3/16"x1/2"	1			

The Serial No./Model No. plate is attached to the right side of the base casting. Locate this plate and record the Serial No. and Model No. in your manual for future reference.

SERIAL NO. _____

MODEL NO. _____