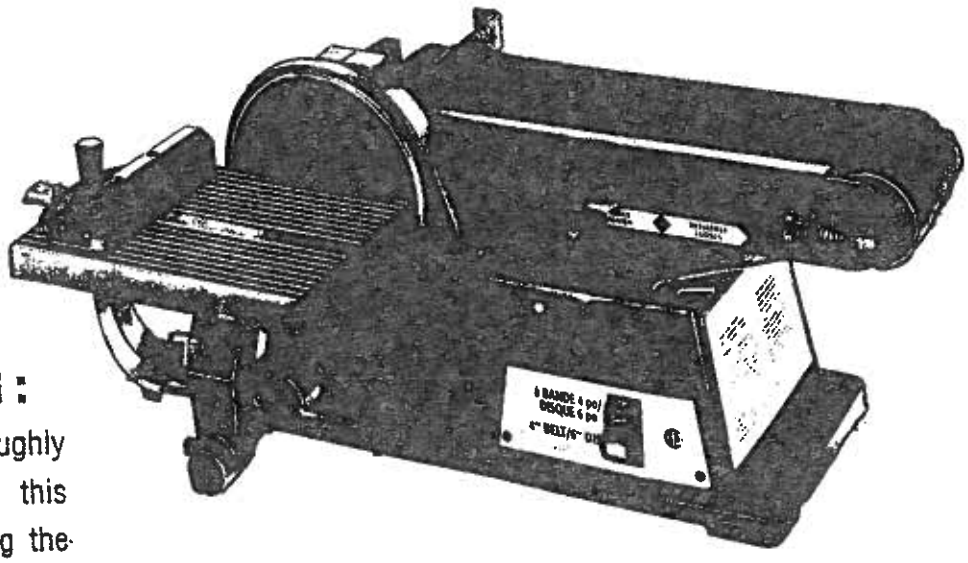
OPERATING MANUAL & PARTS LIST

FOR

4" Belt x 6" Disc Sander



WARNING :

The operator must thoroughly read and understand this manual before operating the machine or commencing any servicing. Care should be taken to follow all safety rules and warning instructions.

READ THIS MANUAL CAREFULLY BEFORE ASSEMBLY , TESTING & OPERATING

TABLE OF CONTENTS

	PAGE
SAFETY RULES	3
ADDITIONAL SAFETY RULES for 4"BELT/6"DISC SANDER	4
UNPACKING	5
ASSEMBLY INSTRUCTIONS	5 -- 8
Adjusting Belt Tension	5
Assembling Belt and Pulley Guard	6
Assembling Sanding Disc Plate	6
Assembling Sanding Disc	7
Assembling Lower Cover for Sanding Disc	7
Assembling Disc Sander Table	7
Assembling Dust Spout	8
Assembling Backstop to Sanding Arm	8
FASTENING SANDER TO SUPPORTING SURFACE	8 -- 9
EXTENSION CORDS	9
CONNECTING SANDER TO POWER SOURCE	10
Power Connections	10
Grounding Instructions	10
OPERATING CONTROLS AND ADJUSTMENTS	11 -- 16
Starting and Stopping Sander	11
Locking Switch in the " OFF " Position	11
Tracking the Sanding Belt	11
Changing position of Sanding Arm	12
Adjusting Sanding Arm Stop	12
Adjusting Backstop Square with Sanding Belt	13
Tilting the Table	13
Adjusting Table Square with Sanding Disc	13
Adjusting Miter Gauge Slot Parallel with Sanding Disc	14
Miter Gauge	14
Using Table Assembly with Sanding Belt	15
Dust Spout	15
Wrench Storage	15
Replacing Sanding Belt	16
Replacing Sanding Disc	16
OPERATION	17 -- 19
Surfacing or Edge Sanding with Sanding Belt	17
Sanding Inside Curves	18
Sanding Outside Curves	18
End Sanding with the Belt	19
End Sanding with the Disc	19
MAINTENANCE	20
REPLACEMENT PARTS	20
DIAGRAM AND PARTS LIST	21 -- 24

ADDITIONAL SAFETY RULES FOR 4" BELT / 6" DISC SANDERS

1. **WARNING: DO NOT** operate your machine until it is completely assembled and installed according to the instructions.

2. **IF YOU ARE NOT** thoroughly familiar with the operation of abrasive finishing machines, obtain advice from your supervisor, instructor or other qualified person.

3. **CAUTION:** This machine is designed to sand wood or wood-like products only. Sanding or grinding other materials could result in fire, injury or damage to product.

4. **ALWAYS** wear eye protection.

5. **THIS MACHINE** is intended for indoor use only.

6. **IMPORTANT:** Mount and use this machine on horizontal surfaces only. Operating machine when mounted on non-horizontal surfaces might result in motor damage.

7. **IF THERE IS ANY TENDENCY** for the machine to tip over or move during certain operations such as when sanding long or heavy boards, the machine must be securely fastened to a supporting surface.

8. **MAKE SURE** the sanding belt is tracking correctly in order that it does not run off the pulleys.

9. **MAKE SURE** the sanding belt runs in the proper direction. See directional arrow on back side of belt.

10. **MAKE SURE** the sanding belt or disc is not torn or loose.

11. **ALWAYS** hold the work firmly when sanding.

12. **ALWAYS** hold the workpiece firmly on the table when sanding on the disc.

13. **ALWAYS** sand on the downward side of the disc when using the disc portion of the machine, so that the work is held securely on the table. Sanding on the upward side of the disc could cause the workpiece to fly up which could be hazardous.

14. **ALWAYS** maintain a maximum clearance of 1/16" or less between the table or backstop and the sanding belt or disc.

15. **NEVER** wear gloves or hold the work with a rag whe sanding.

16. **SAND** with the grain of the wood.

17. **DO NOT** sand pieces of material that are too small be safely supported.

18. **AVOID** awkward hand positions where a sudden sl could cause a hand to move into the sanding belt or dis

19. **WHEN** sanding a large workpiece, provide additiona support at table height.

20. **DO NOT** sand with the workpiece unsupporte Support the workpiece with the backstop or table. The on exception is curved work performed on the outer sandin drum.

21. **ALWAYS** remove scrap pieces and other objects fro the table, backstop or belt before turning the machin "ON."

22. **NEVER** perform layout, assembly or set-up work o the table while the sander is operating.

23. **ALWAYS** turn the machine "OFF" and disconnect th cord from the power source before installing or removin accessories.

24. **NEVER** leave the machine work area when the powe is "ON" or before the machine has come to a complete stop

25. **NEVER** use solvents to clean plastic parts. Solvent could possibly dissolve or otherwise damage the materia Only a soft damp cloth should be used to clean plastic parts

26. **SHOULD** any part of your sander be missing, dam aged, or fail in any way, or any electrical components fail t perform properly, shut off switch and remove plug fron power supply outlet. Replace missing, damaged or faile parts before resuming operation.

27. **SAVE THESE INSTRUCTIONS**. Refer to them ofte and use them to instruct others.

UNPACKING

The 4" Belt / 6" Disc Sander is shipped complete in one carton. Carefully unpack the machine and all loose items from the carton. If any parts are missing, do not attempt to operate your sander until the missing parts are obtained and installed correctly.

ASSEMBLY INSTRUCTIONS

WARNING: FOR YOUR OWN SAFETY, DO NOT CONNECT THE SANDER TO THE POWER SOURCE UNTIL THE MACHINE IS COMPLETELY ASSEMBLED AND YOU HAVE READ AND UNDERSTOOD THE ENTIRE OWNERS MANUAL.

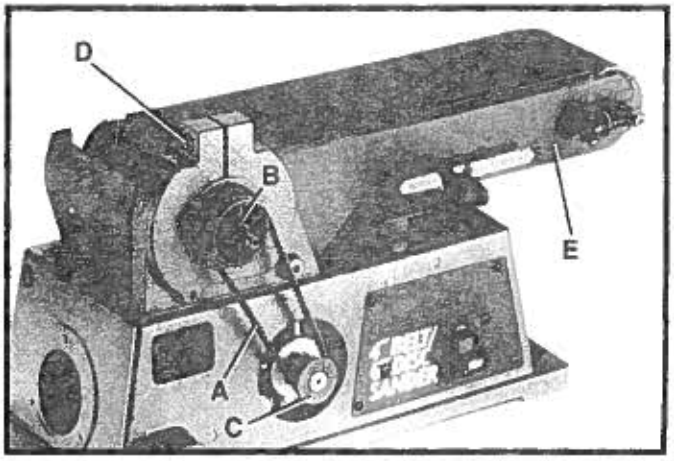


Fig. 2

ADJUSTING BELT TENSION

Your sander was shipped from the factory with the drive belt (A) Fig. 2, assembled to both pulleys (B) and (C). Before assembling the disc unit to the machine, check and adjust the belt tension as follows:

1. Loosen screw (D) Fig. 2, and move sanding arm (E) to the vertical position to expose belt tensioning screw (F) Fig. 3, and locknut (G).

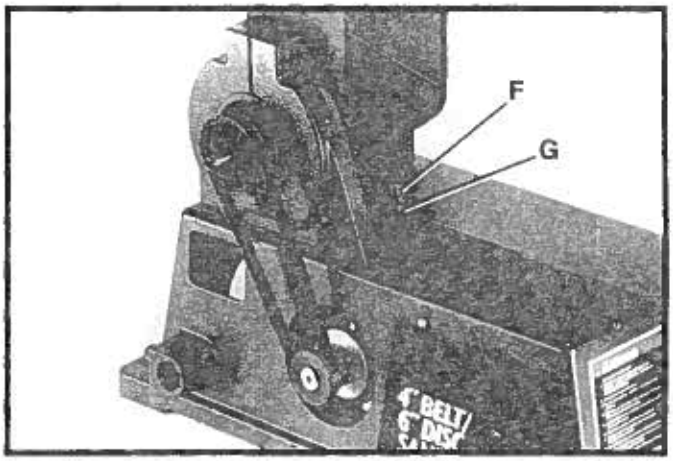
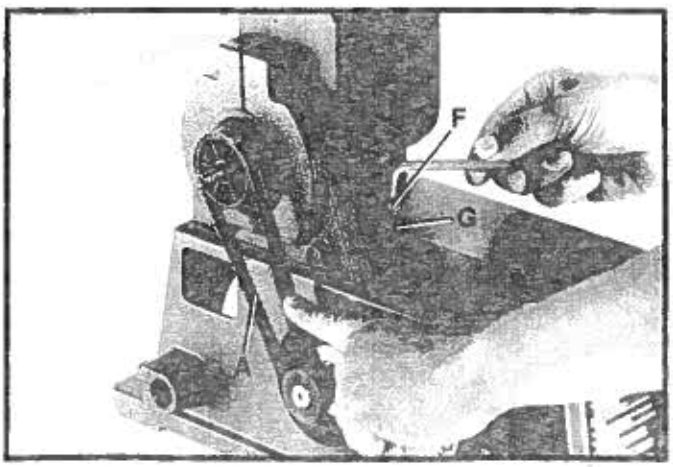


Fig. 3

2. Check to see if the belt (A) Fig. 4, is tensioned properly by applying light pressure to the belt at the center span of the pulleys as shown. **NOTE: THE BELT (A) SHOULD BE FIRM BUT NOT TOO TIGHT. THE BELT DOES NOT REQUIRE EXCESSIVE TENSION TO FUNCTION PROPERLY.**

3. If an adjustment is necessary, loosen locknut (G) Fig. 4, and tighten or loosen adjusting screw (F) until correct tension is obtained. Then tighten locknut (G).

4. After belt tension is checked and adjusted if necessary, move the sanding arm to the horizontal position.



ASSEMBLING BELT AND PULLEY GUARD

1. Assemble the belt and pulley guard (A) Fig. 5, to the machine base using the two 1-3/16" (30mm) long screws (B), as shown.

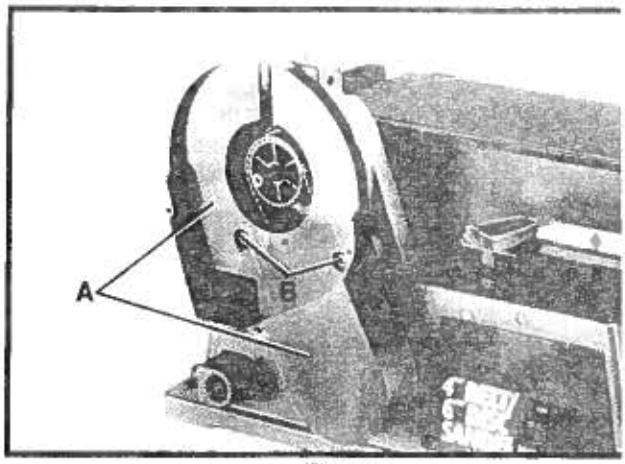


Fig. 5

ASSEMBLING SANDING DISC PLATE

1. Thread the 1/4" long set screw (A) Fig. 6, into the tapped hole on hub of sanding disc plate. **NOTE:** Just start screw (A) in hole.

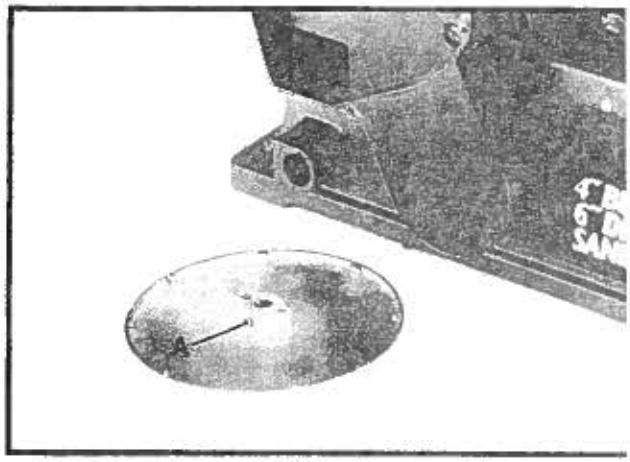


Fig. 6

2. Slide sanding disc plate (B) Fig. 7, on drive shaft (C) making sure flat on drive shaft is aligned with set screw (A) in hub of plate (B). Slide plate (B) onto shaft (C) until plate surface and shaft are nearly flush. Shaft must not extend out past surface of plate.

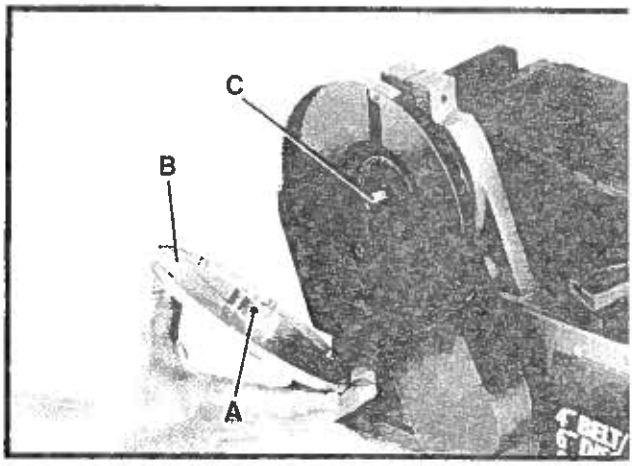
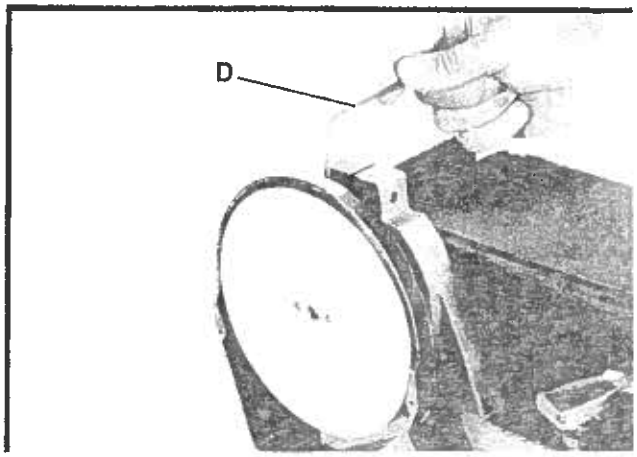


Fig. 7

3. Insert hex wrench (D) Fig. 8, down through slot in the back of belt and pulley guard and tighten set screw against flat on shaft.



ASSEMBLING SANDING DISC

1. Make sure sanding disc plate (A) Fig. 9, is clean.

2. Peel backing from sanding disc and press disc (B) firmly into position all the way around the sanding plate, as shown in Fig. 9.

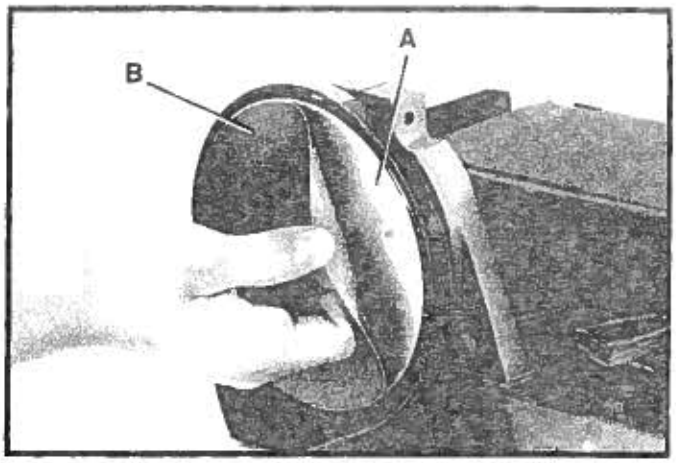


Fig. 9

ASSEMBLING LOWER COVER FOR SANDING DISC

1. Assemble the lower cover (A) Fig. 10, to the belt and pulley guard, using the three 1/2" (12mm) long pan head screws (B).

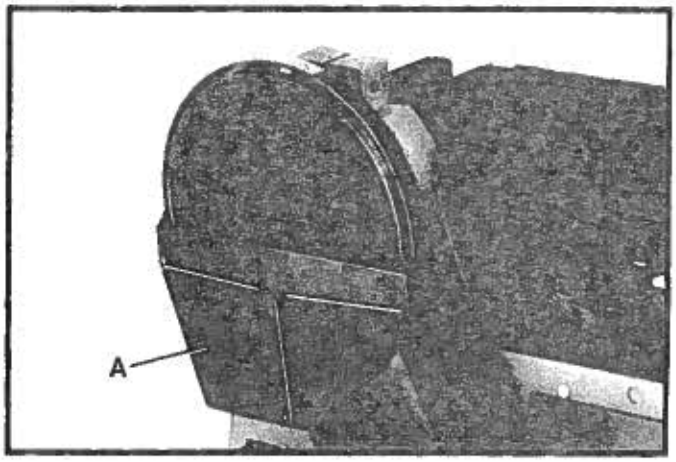


Fig. 10

ASSEMBLING DISC SANDER TABLE

1. Thread 13/16" (20mm) long socket head screw (A) Fig. 11, part-way into threaded hole in base of sander and insert rod (B) into hole as shown. Rod (B) should extend 5 inches outside base. Align flat on rod (B) with screw (A) and tighten screw (A) to hold rod (B) in place.

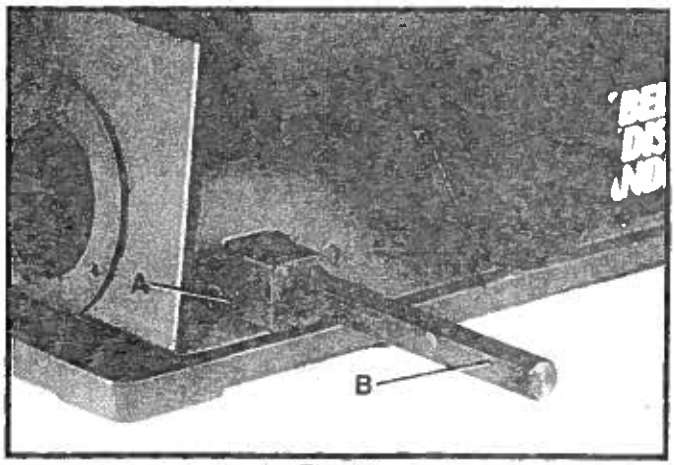
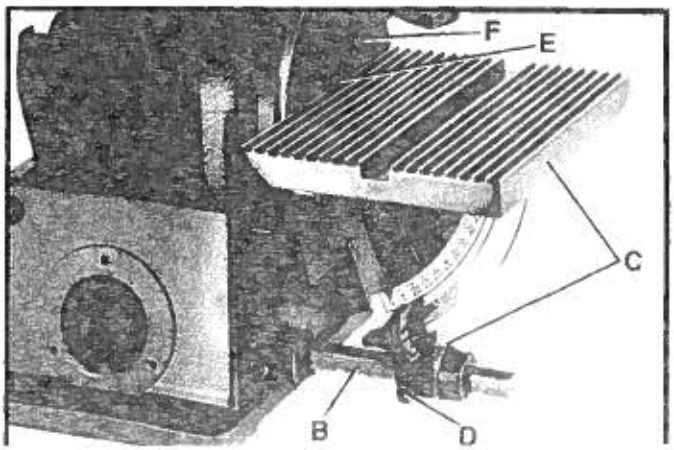


Fig. 11

2. Slide table assembly (C) Fig. 12, onto rod (B) as shown.

3. Thread 13/16" (20mm) long socket head screw (D) Fig. 12, into hole in table support bracket as shown. Align flat on rod (B) with screw (D) and tighten screw (D).

4. **WARNING: TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING DISC, THE TABLE EDGE (E) FIG. 12, SHOULD BE POSITIONED A MAXIMUM OF 1/16" AWAY FROM SANDING DISC (F). LOOSEN SCREW (D) AND ADJUST TABLE ACCORDINGLY.**



ASSEMBLING DUST SPOUT

1. Fasten dust spout (A) Fig. 13, to sander base using the three 3/8" (10mm) long pan head screws (B), and flat washers supplied.

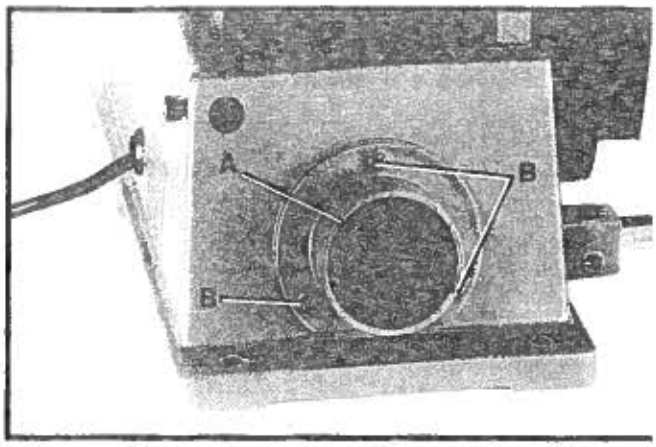


Fig. 13

ASSEMBLING BACKSTOP TO SANDING ARM

1. Assemble backstop (A) Fig. 14, to the sanding arm using the 1/2" long hex head screw (B) and 5/16" flat washer (C). Do not overtighten screw (B). **WARNING: TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE BACKSTOP AND SANDING BELT, THE EDGE (D) OF THE BACKSTOP SHOULD BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM SANDING BELT (E).**

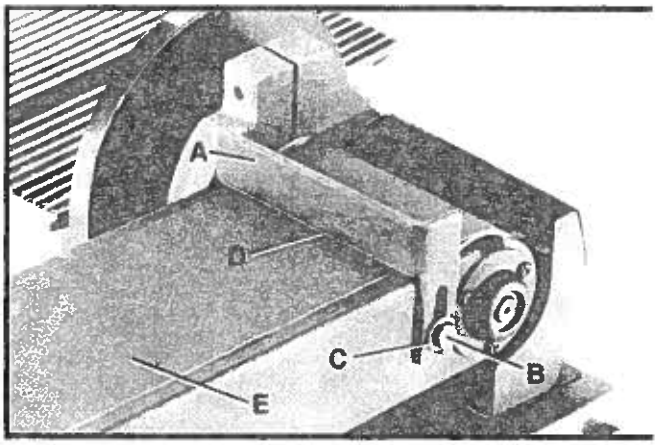


Fig. 14

FASTENING SANDER TO SUPPORTING SURFACE

1. If your sander is to be used in a permanent location, it should be fastened securely to a firm supporting surface, such as a stand or workbench using the four holes, three of which are shown at (A) Fig. 15.

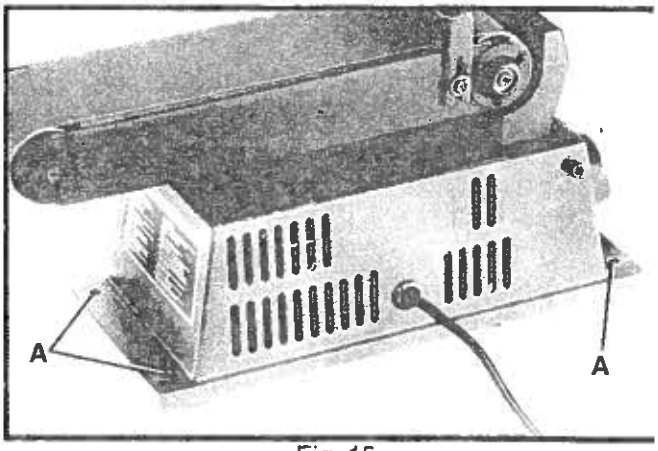
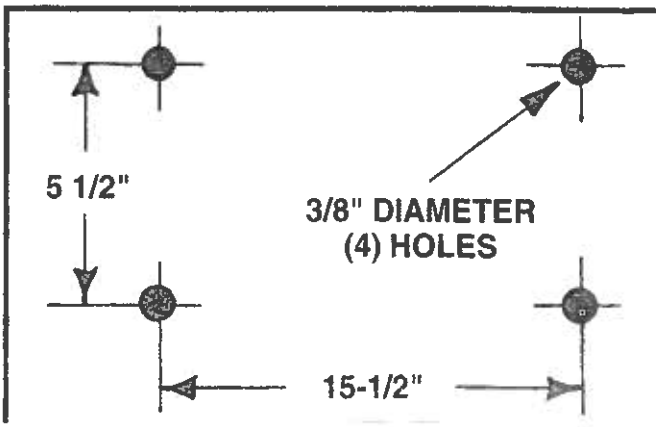


Fig. 15

2. The diagram, shown in Fig. 16, illustrates the size and center to center distance of the holes to be drilled in the stand or workbench.



3. An alternate method of securing the sander to a supporting surface is to fasten the sander base to a mounting board 18" x 24" minimum size. The diagram, shown in Fig. 17, illustrates the size and center to center distance of the holes to be drilled in the mounting board. **NOTE:** For proper stability, the holes in the mounting board must be countersunk at the bottom so screw heads are flush with bottom surface of the mounting board.

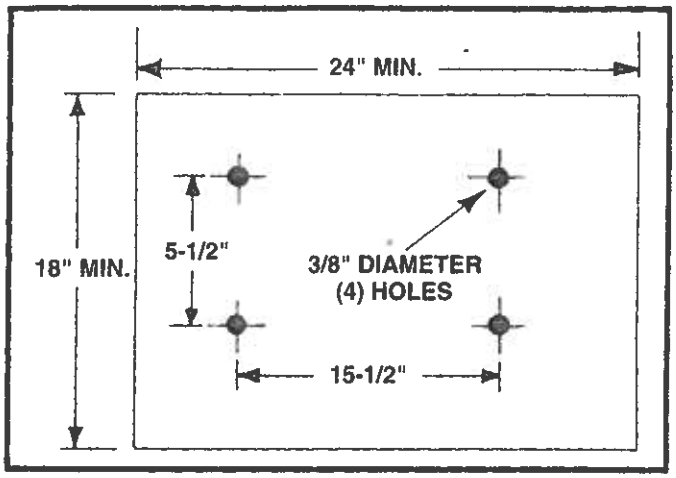


Fig. 17

4. Securely clamp the mounting board to a stand or workbench using 2 or more "'C" clamps, as shown in Fig. 18.

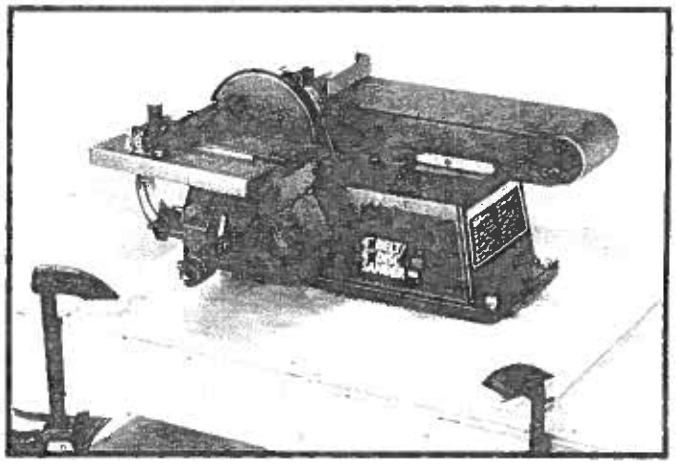


Fig. 18

IMPORTANT: If there is any tendency for the stand or workbench to move during operation, the stand or workbench must be fastened to the floor.

NOTE: Mount and use this machine on horizontal surfaces only. Use when mounted on non-horizontal surfaces might result in motor damage.

EXTENSION CORDS

Make sure your extension cord is in good condition and is a 3-wire extension cord which has a 3-prong grounding type plug and a 3-pole receptacle which will accept the tools plug. When using an extension cord, be sure to use one heavy enough to carry the current of the sander. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Fig. 19, shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage.The smaller the gage number, the heavier the cord.

TOTAL LENGTH OF CORD IN FEET	GAGE OF EXTENSION CORD TO USE
0 - 25	18 AWG
26 - 50	16 AWG
51 - 100	16 AWG
101 - 150	14 AWG

CONNECTING SANDER TO POWER SOURCE

POWER CONNECTIONS

A separate electrical circuit should be used for your tools. This circuit should not be less than #12 wire and should be protected with a 15 Amp time lag fuse. If an extension cord is used, use only 3-wire extension cords which have 3-prong grounding type plugs and 3-pole receptacles which accept the tools plug. Before connecting the motor to the power line, make sure the switch is in the "OFF" position and be sure that the electric current is of the same characteristics as indicated on the tool. All line connections should make good contact. Running on low voltage will damage the motor.

GROUNDING INSTRUCTIONS

CAUTION: THIS TOOL MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.

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.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes 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.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3-prong gro ing type plugs and 3-hole receptacles that accept the t plug, as shown in Fig. 20.

Repair or replace damaged or worn cord immediatel

This tool is intended for use on a circuit that has an c and a plug that looks like the one shown in Fig. A temporary adapter, which looks like the adapter trated in Fig. 21, may be used to connect this plug 2-pole receptacle, as shown in Fig. 21, if a properly grour outlet is not available. The temporary adapter sh be used only until a properly grounded outlet ca installed by a qualified electrician. **THIS ADAPTER IS APPLICABLE IN CANADA**. The green-colored rigid lug, and the like, extending from the adapter mus connected to a permanent ground, such as a pro grounded outlet box, as shown in Fig. 21.

CAUTION: IN ALL CASES, MAKE CERTAIN THE CEPTACLE IN QUESTION IS PROPERLY GROUNI IF YOU ARE NOT SURE HAVE A CERTIFIED EL TRICIAN CHECK THE RECEPTACLE.

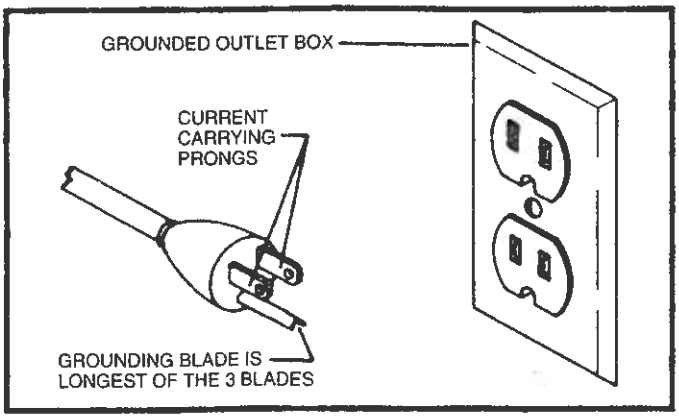


Fig. 20

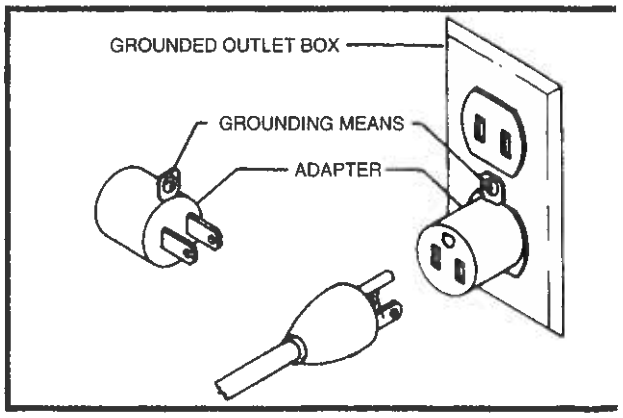


Fig. 21

OPERATING CONTROLS AND ADJUSTMENTS

STARTING AND STOPPING SANDER

The switch (A) Fig. 22, is located on the sander base. To turn the sander "ON" move the switch to the up position. To turn the sander "OFF" move the switch to the down position.

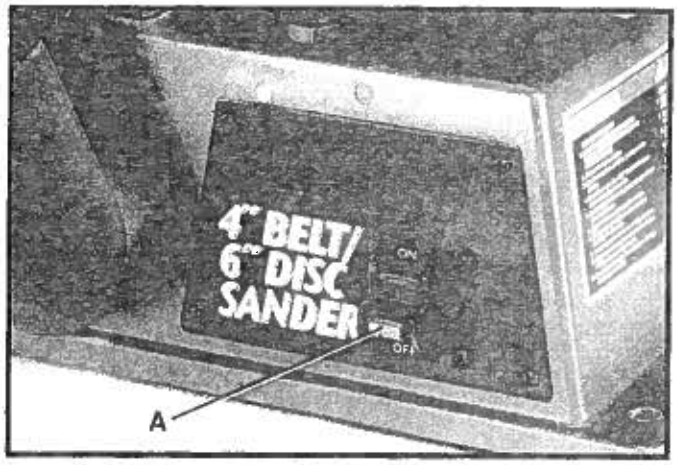


Fig. 22

LOCKING SWITCH IN THE "OFF" POSITION

We suggest that when the sander is not in use, the switch be locked in the "OFF" position. This can be done by grasping the switch toggle (B) and pulling it out of the switch, as shown in Fig. 23. With the switch toggle (B) removed, the switch will not operate. However, should the switch toggle be removed while the sander is running, it can be turned "OFF" once, but cannot be restarted without inserting the switch toggle (B).

Fig. 23

TRACKING THE SANDING BELT

1. Turn the switch "ON" and "OFF" and check to see if the sanding belt tends to move to one side or the other on the two sanding drums. If the belt does not move to one side or the other and rides on the center of the sanding drums the belt is tracking properly.

2. If the sanding belt moves toward the disc, turn the tracking knob (A) Fig. 24, counterclockwise 1/4 turn.

3. If the sanding belt moves away from the disc, turn the tracking knob (A) Fig. 24, clockwise 1/4 turn.

4. Turn the switch "ON" and "OFF" again, and check to see if the sanding belt moves to one side or the other and readjust tracking knob if necessary.

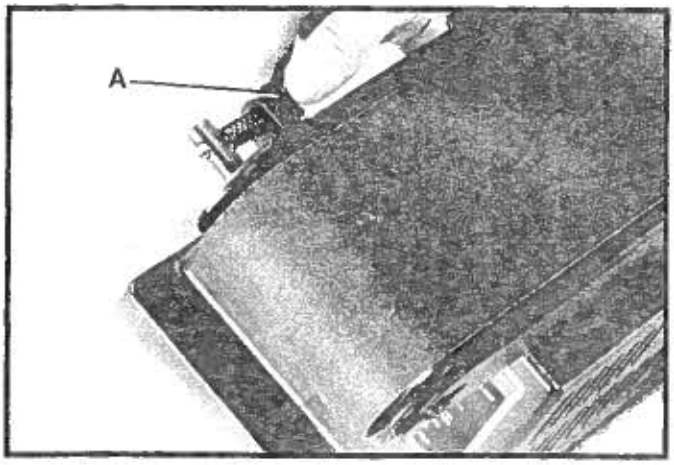


Fig. 24

CHANGING POSITION OF SANDING ARM

1. The sanding arm (A) can be used in the horizontal position, as shown in Fig. 25; vertical position, as shown in Fig. 26; or any angle in between by loosening screw (B), positioning the arm (A) to the desired angle and tightening screw (B).

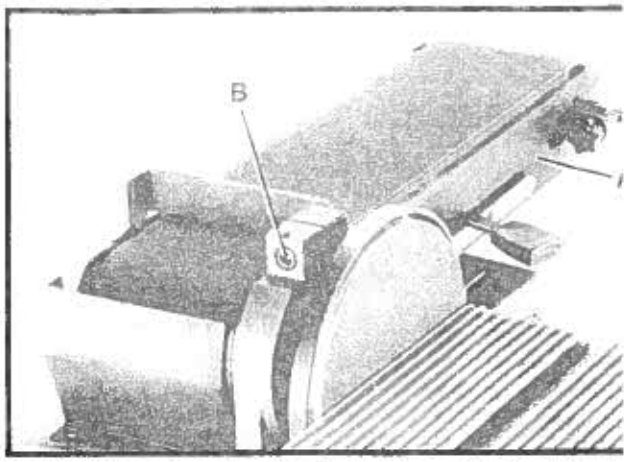


Fig. 25

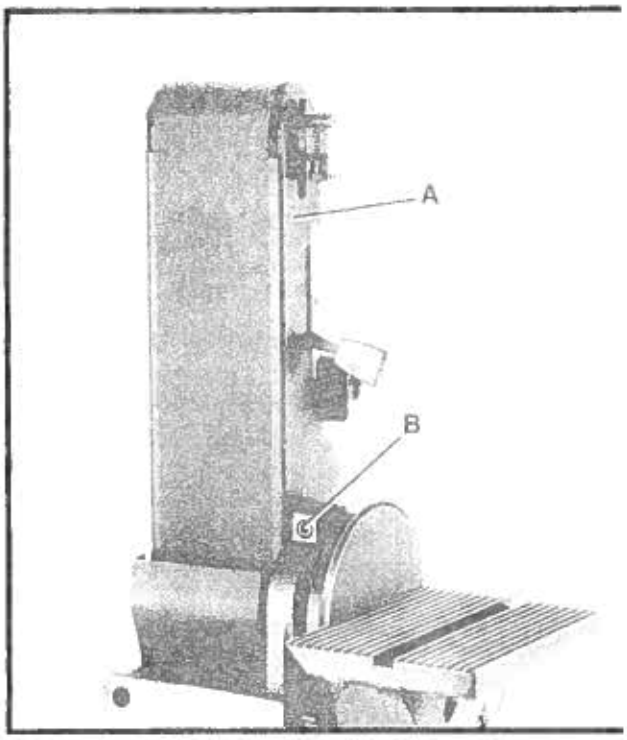


Fig. 26

ADJUSTING SANDING ARM STOP

A positive stop is provided to position the sanding arm level with the workbench when the arm is in the horizontal position.

1. Place the sanding arm as far as possible in the horizontal position.

2. Place a level (A) on the sanding belt and check to see if the arm is level, as shown in Fig. 27.

3. If an adjustment is necessary, loosen lock nut (B) Fig. 27, and turn sanding arm stop (C) in or out until the sanding arm is level. Then tighten lock nut (B).

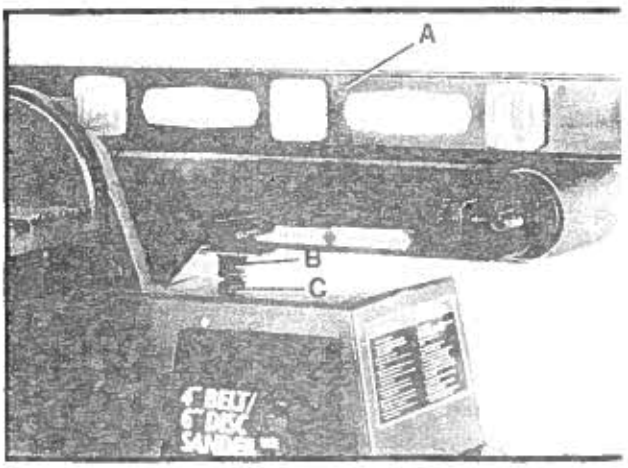


Fig. 27

ADJUSTING BACKSTOP SQUARE WITH SANDING BELT

1. **MAKE CERTAIN SANDER IS DISCONNECTED FROM THE POWER SOURCE.**

2. When making this adjustment make sure the belt tension lever (A) Fig. 28, is all the way to the left in the tightened position, as shown.

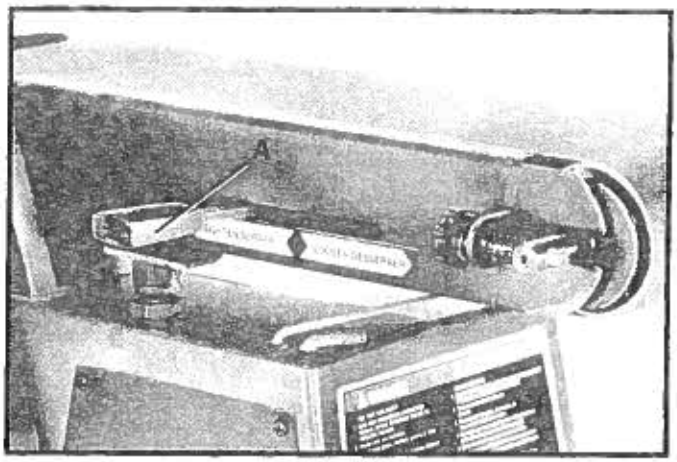


Fig. 28

3. Place a square (B) Fig. 29, on the sanding belt with one end of the square against the backstop, and check to see if the backstop is square with the sanding belt.

4. If an adjustment is necessary, loosen screw (C) Fig. 29, and adjust the backstop accordingly.

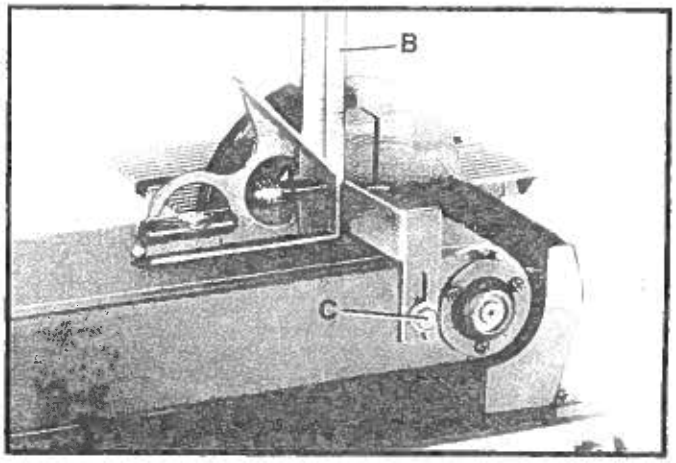


Fig. 29

TILTING THE TABLE

1. The table can be tilted up to 45 degrees to the right by loosening the table lock knob (A) Fig. 30, tilting the table to the desired angle, and tightening table lock knob (A).

2. **WARNING: AFTER TILTING, THE TABLE ASSEMBLY MUST BE REPOSITIONED ON THE SUPPORT ROD (B) FIG. 30, TO PROVIDE A MAXIMUM OF 1/16 INCH DISTANCE BETWEEN THE SANDING DISC (C), AND THE EDGE (D) OF THE TABLE, TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE DISC AND TABLE. TO REPOSITION THE TABLE ASSEMBLY, LOOSEN SCREW (E), MOVE TABLE ASSEMBLY ON ROD (B), AND TIGHTEN SCREW (E).**

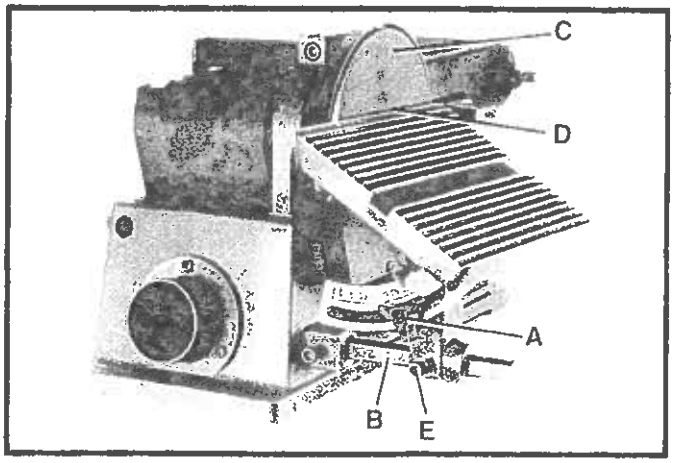


Fig. 30

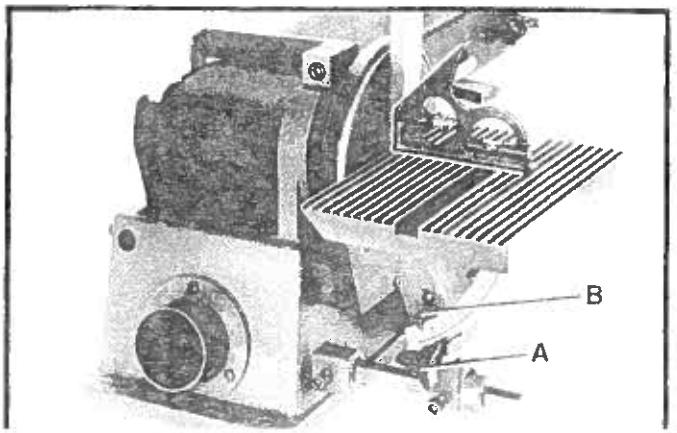
ADJUSTING TABLE SQUARE WITH SANDING DISC

1. **MAKE CERTAIN SANDER IS DISCONNECTED FROM THE POWER SOURCE.**

2. Using a combination square, place one end of the square on the table with the other end against the sanding disc, as shown in Fig. 31, and check to see if the table is 90 degrees to the disc.

3. If the table surface is not 90 degrees to the disc, loosen table lock knob (A) Fig. 31, adjust table square with disc and tighten lock knob (A).

4. Adjust pointer (B) Fig. 31, to the 0 degree mark on the



ADJUSTING MITER GAGE SLOT PARALLEL WITH SANDING DISC

1. **MAKE CERTAIN SANDER IS DISCONNECTED FROM THE POWER SOURCE.**

2. Using a combination square (A) in the miter gage slot, check the distance from the slot to each end of the sanding disc, as shown in Figs. 32 and 33. This distance should be the same.

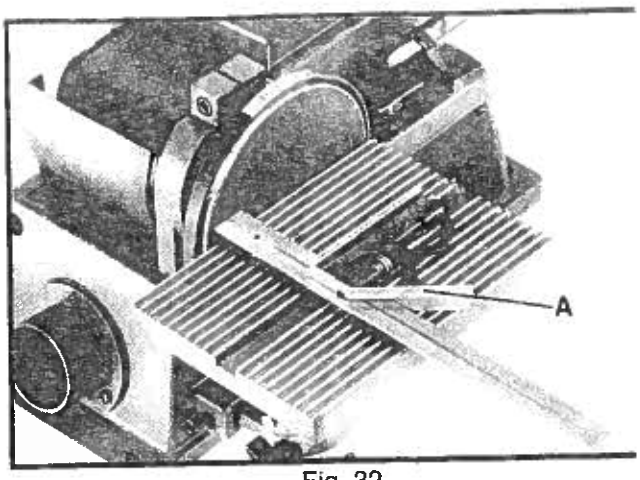


Fig. 32

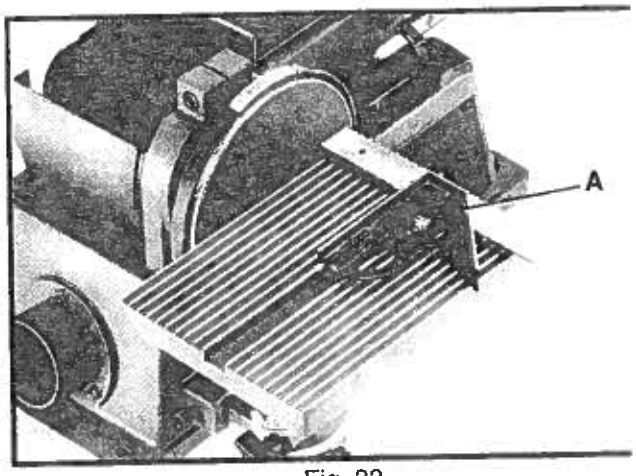


Fig. 33

3. If an adjustment to the table is necessary, loosen the three screws (B) Fig. 34, that fasten the table to the table mounting bracket and trunnion and adjust the table accordingly - then tighten the three screws (B).

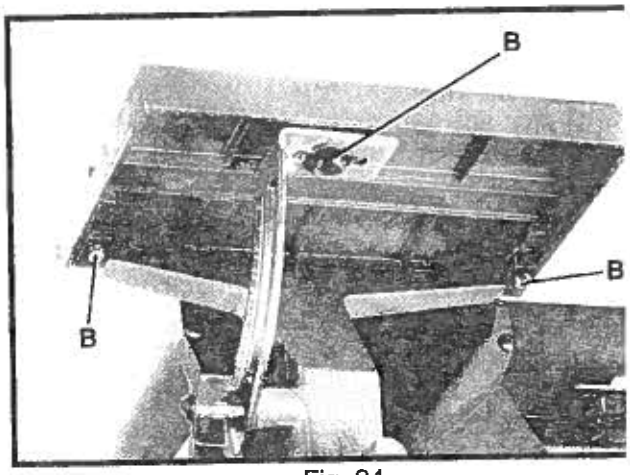
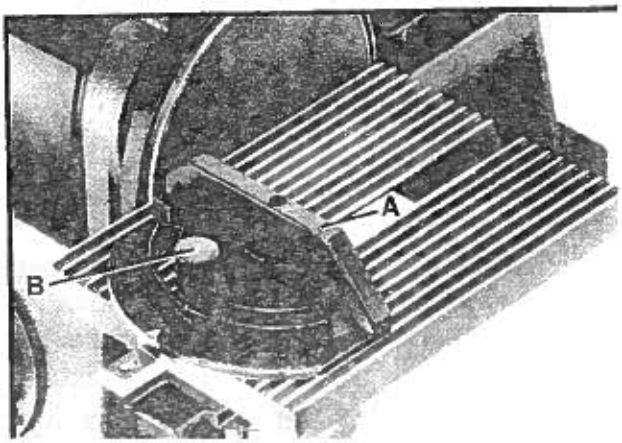


Fig. 34

MITER GAGE

A miter gage (A) Fig. 35, is supplied with your machine and is used with the disc table. The miter gage body (A) can be tilted right or left for angle or miter sanding by loosening lock knob (B), rotate miter gage body and tighten lock knob (B).



USING TABLE ASSEMBLY WITH SANDING BELT

When the sanding arm (A) Fig. 36, is used in the vertical position, the complete table assembly (B) can be moved from the disc unit to the belt unit as follows:

1. Remove the backstop.

2. Locate and thread the 13/16" (20mm) long socket head screw (D) Fig. 36, into base casting as shown. **NOTE:** Only thread screw (D) partway into base casting.

3. Loosen screw (E) Fig. 36, and remove support bar (F) and table assembly (B) from disc unit. Insert bar (F) into hole (G) on belt unit and tighten screw (D).

4. Fig. 37, illustrates the table assembly (B) assembled to the belt unit. **WARNING: THE TABLE EDGE (G) MUST BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM THE SANDING BELT (H) TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING BELT.**

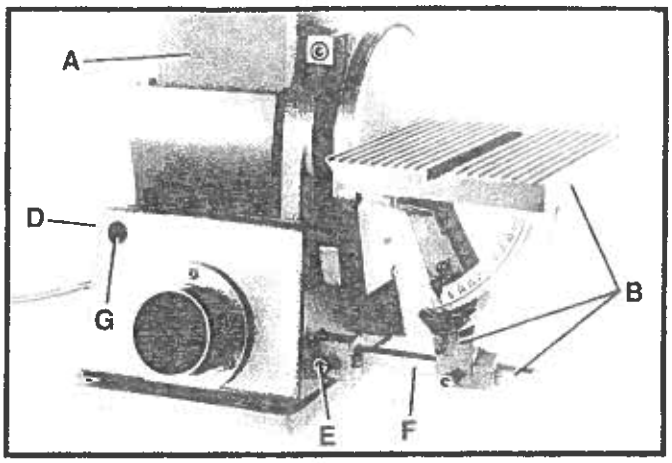


Fig. 36

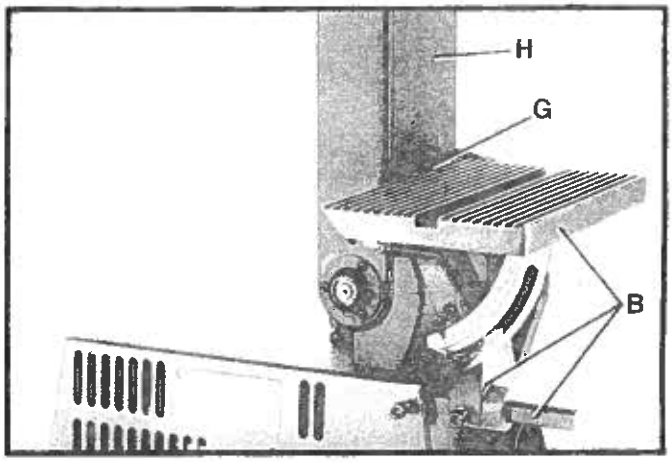


Fig. 37

DUST SPOUT

A dust spout (A) Fig. 38, is supplied with your sander and can easily be connected to a standard shop vacuum hose. The diameter of the opening of the dust spout is 2-1/2 inches.

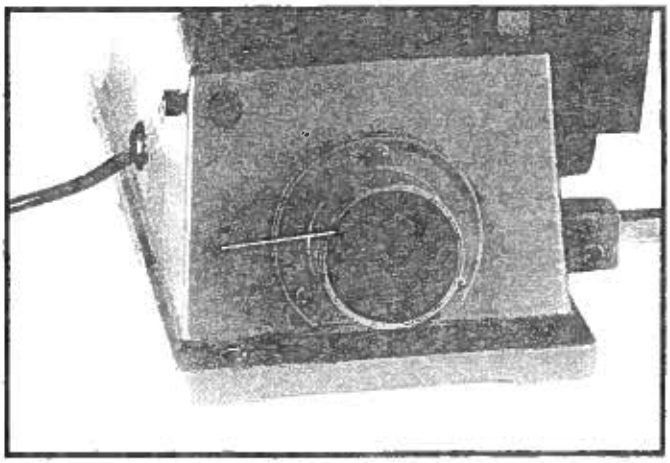
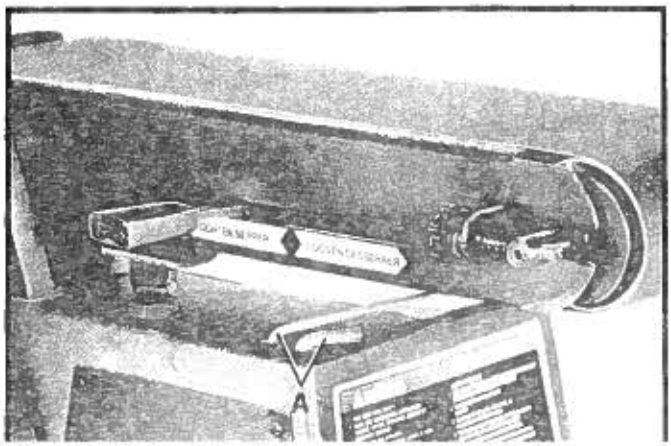


Fig. 38

WRENCH STORAGE

Two holes are provided in the base casting and are used for storing the two wrenches (A) Fig. 39, supplied with the sander.



REPLACING SANDING BELT

1. **WARNING: TO AVOID INJURY, TURN SWITCH "OFF" AND DISCONNECT THE SANDER FROM THE POWER SOURCE BEFORE REMOVING AND INSTALLING SANDING BELTS.**

2. Remove screw (A) Fig. 40, and remove backstop (B).

3. Slide tension lever (C) Fig. 41, to the right to release tension on sanding belt and remove sanding belt (D) from both sanding drums, as shown.

4. Slide new sanding belt over both sanding drums making sure the belt will run in the direction of the arrow located on the inside of the belt.

5. Re-apply belt tension by sliding tension lever (C) Fig. 41, to the left.

6. Replace backstop which was removed in **STEP 2.**

7. Connect electrical power to the sander and check to see if the belt is tracking properly. If not, refer to the section **"TRACKING THE SANDING BELT".**

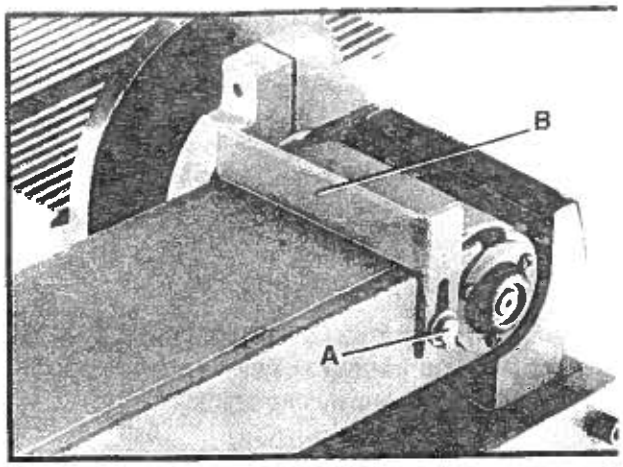


Fig. 40

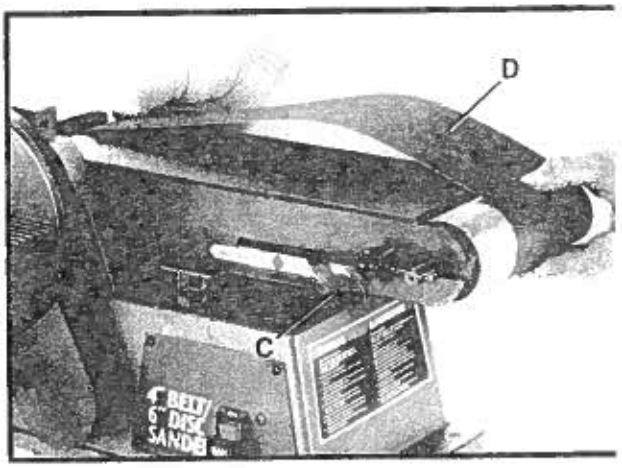


Fig. 41

REPLACING SANDING DISC

When it becomes necessary to replace the sanding disc, proceed as follows:

1. **WARNING: TO AVOID INJURY, TURN SWITCH "OFF" AND DISCONNECT THE SANDER FROM THE POWER SOURCE BEFORE REMOVING AND INSTALLING SANDING DISC.**

2. Loosen screw (A) Fig. 42, and remove table assembly (B).

3. Remove three screws (C) Fig. 43, and lower cover (D).

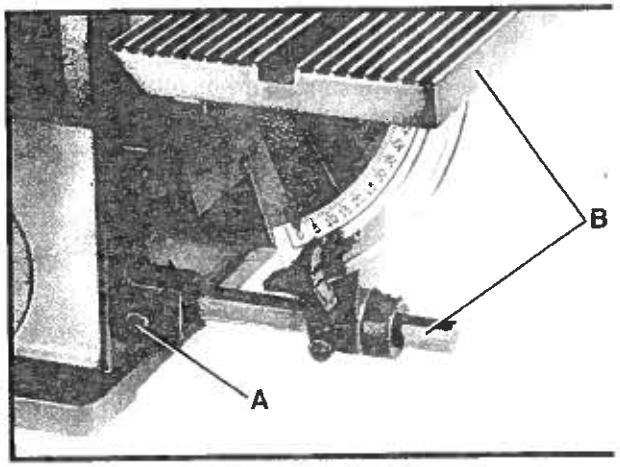
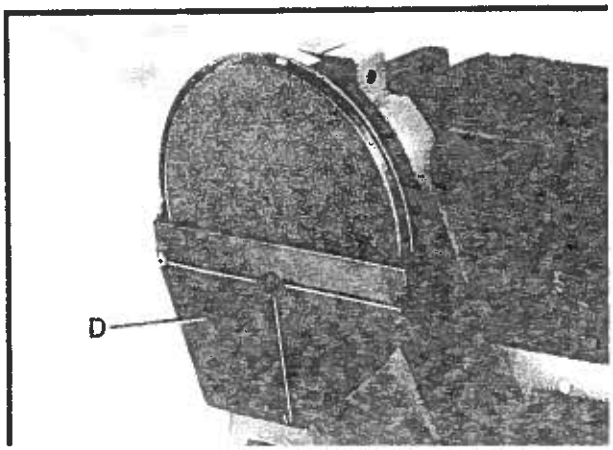


Fig. 42



4. Peel off old disc (E) as shown in Fig. 44.

5. Make sure the disc plate (F) Fig. 44, is clean and peel backing from new sanding disc. Press the new sanding disc firmly into position on disc plate (F) and replace lower cover and table assembly which were removed in **STEPS 2** and **3**.

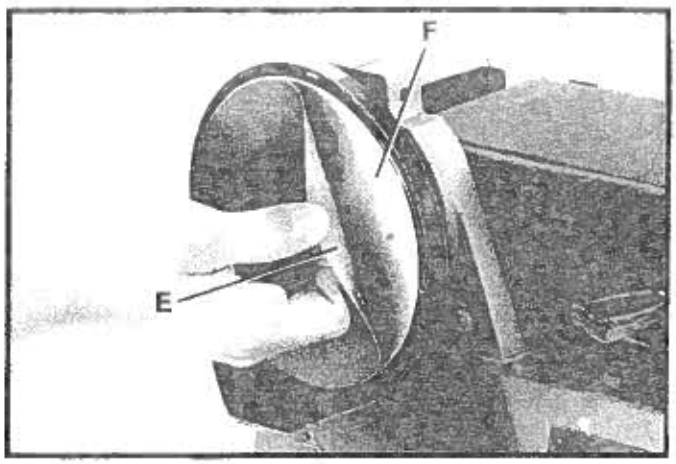


Fig. 44

OPERATION

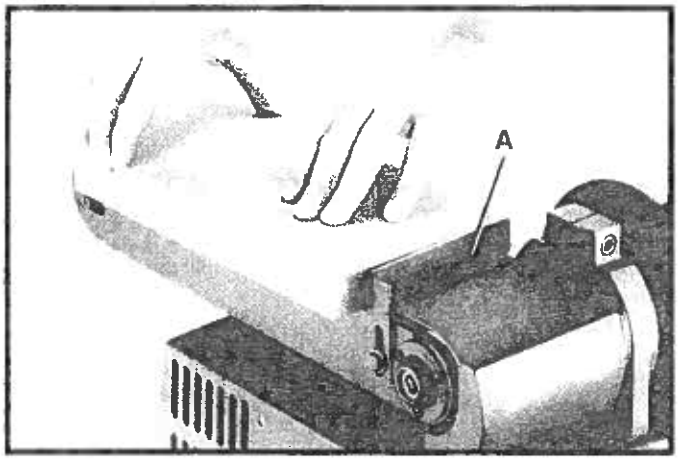


Fig. 45

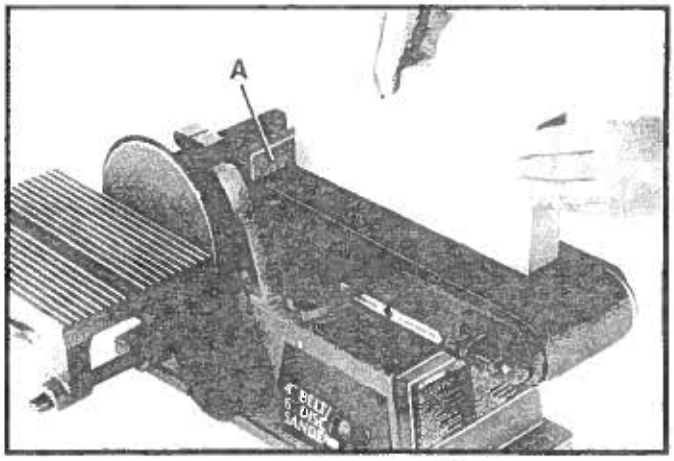


Fig. 46

SURFACING OR EDGE SANDING WITH SANDING BELT

When surfacing, see Fig. 45, or edge sanding, see Fig. 46, the sanding arm is in the horizontal position and the backstop (A) Fig. 45 and Fig. 46, must always be used to prevent the workpiece from being carried along the belt. Always hold the workpiece firmly, keeping your fingers away from the sanding belt. Always keep the end of the workpiece against the backstop and move the workpiece evenly across the sanding belt. Apply only enough pressure to allow the sanding belt to remove material. Use extra caution when sanding very thin pieces.

WARNING: THE EDGE OF THE BACKSTOP MUST BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM THE SANDING BELT TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE BACKSTOP AND SANDING BELT.

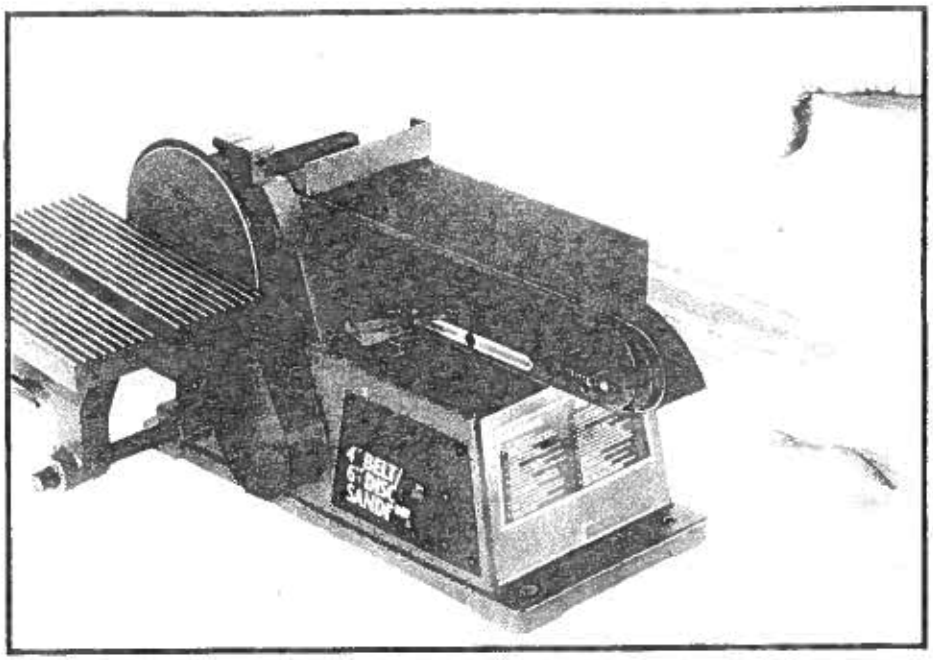


Fig. 47

SANDING INSIDE CURVES

Inside curves can be sanded on the top sanding drum, as shown in Fig. 47.

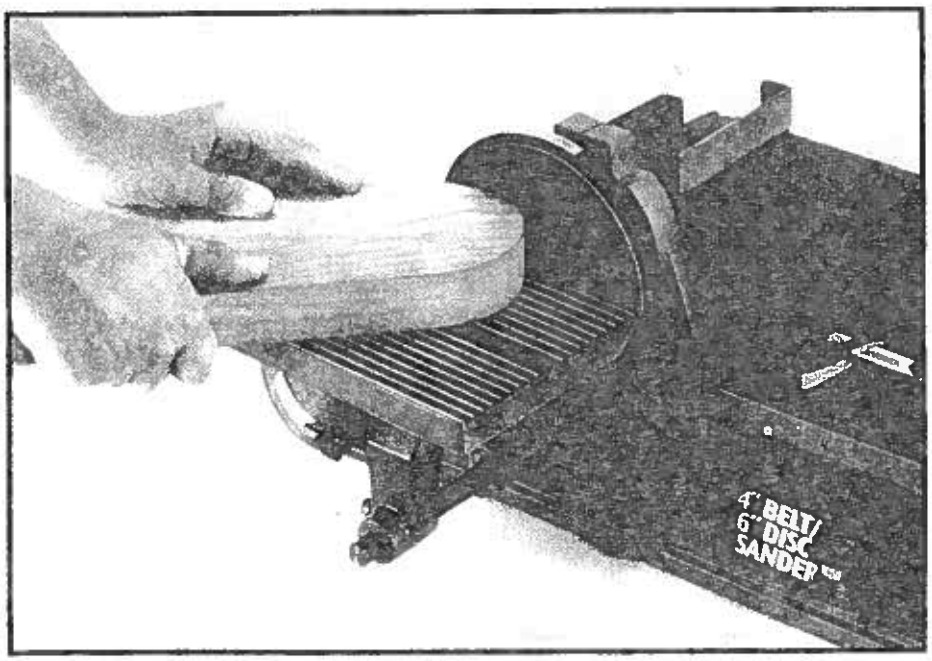


Fig. 48

SANDING OUTSIDE CURVES

Outside curves should be sanded on the sanding disc as shown in Fig. 48. **WARNING: ALWAYS SAND ON THE LEFT (DOWNWARD) SIDE OF THE SANDING DISC, AS SHOWN. SANDING ON THE RIGHT (UPWARD) SIDE OF THE SANDING DISC COULD CAUSE THE WORKPIECE TO FLY UP WHICH COULD BE HAZARDOUS.**

WARNING: THE EDGE OF THE TABLE MUST BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM THE SANDING DISC TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING DISC.

END SANDING WITH THE BELT

When sanding the ends of wide workpieces it is more convenient to use the sanding belt with the sanding arm in the vertical position and the table assembly moved to the sanding belt, as shown in Fig. 49. See sections titled **"CHANGING POSITION OF SANDING ARM"** and **"USING TABLE ASSEMBLY WITH SANDING BELT"**.

For more accurate work use the miter gage (supplied as standard equipment) and move the work evenly across the sanding belt, as shown in Fig. 49.

WARNING: THE EDGE OF THE TABLE MUST BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM THE SANDING BELT TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING BELT.

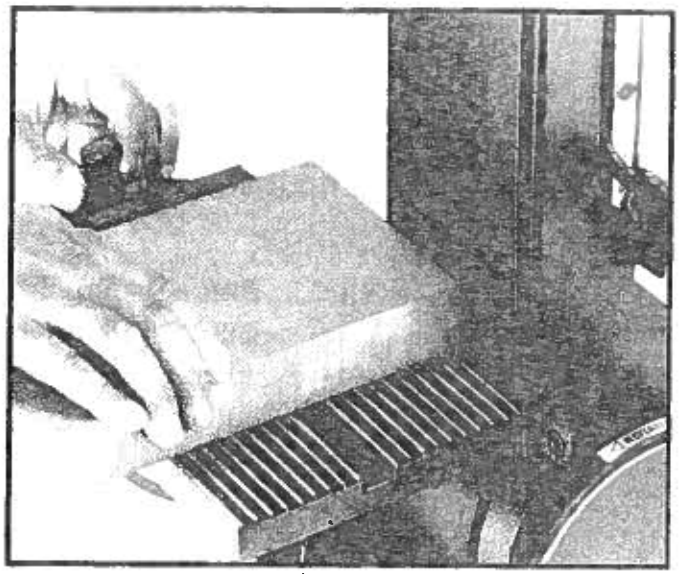


Fig. 49

END SANDING WITH THE DISC

When sanding the ends of narrow workpieces use the sanding disc and the miter gage, as shown in Fig. 50. Move the work from the center to the left side of the sanding disc. **WARNING: ALWAYS SAND ON THE LEFT (DOWNWARD) SIDE OF THE SANDING DISC, AS SHOWN. SANDING ON THE RIGHT (UPWARD) SIDE OF THE SANDING DISC COULD CAUSE THE WORKPIECE TO FLY UP WHICH COULD BE HAZARDOUS.**

WARNING: THE EDGE OF THE TABLE MUST BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM THE SANDING DISC TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING DISC.

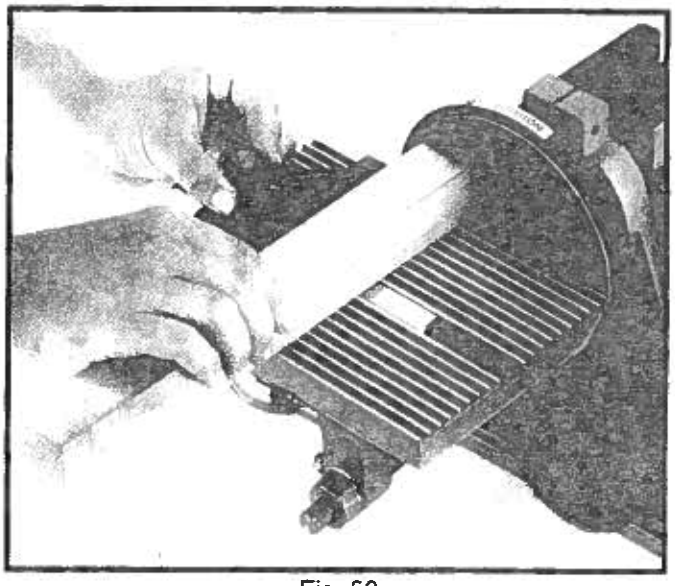


Fig. 50

MAINTENANCE

WARNING: Before doing any maintenance on the machine, DISCONNECT it from the power source. Failure to to comply may cause serious injury !

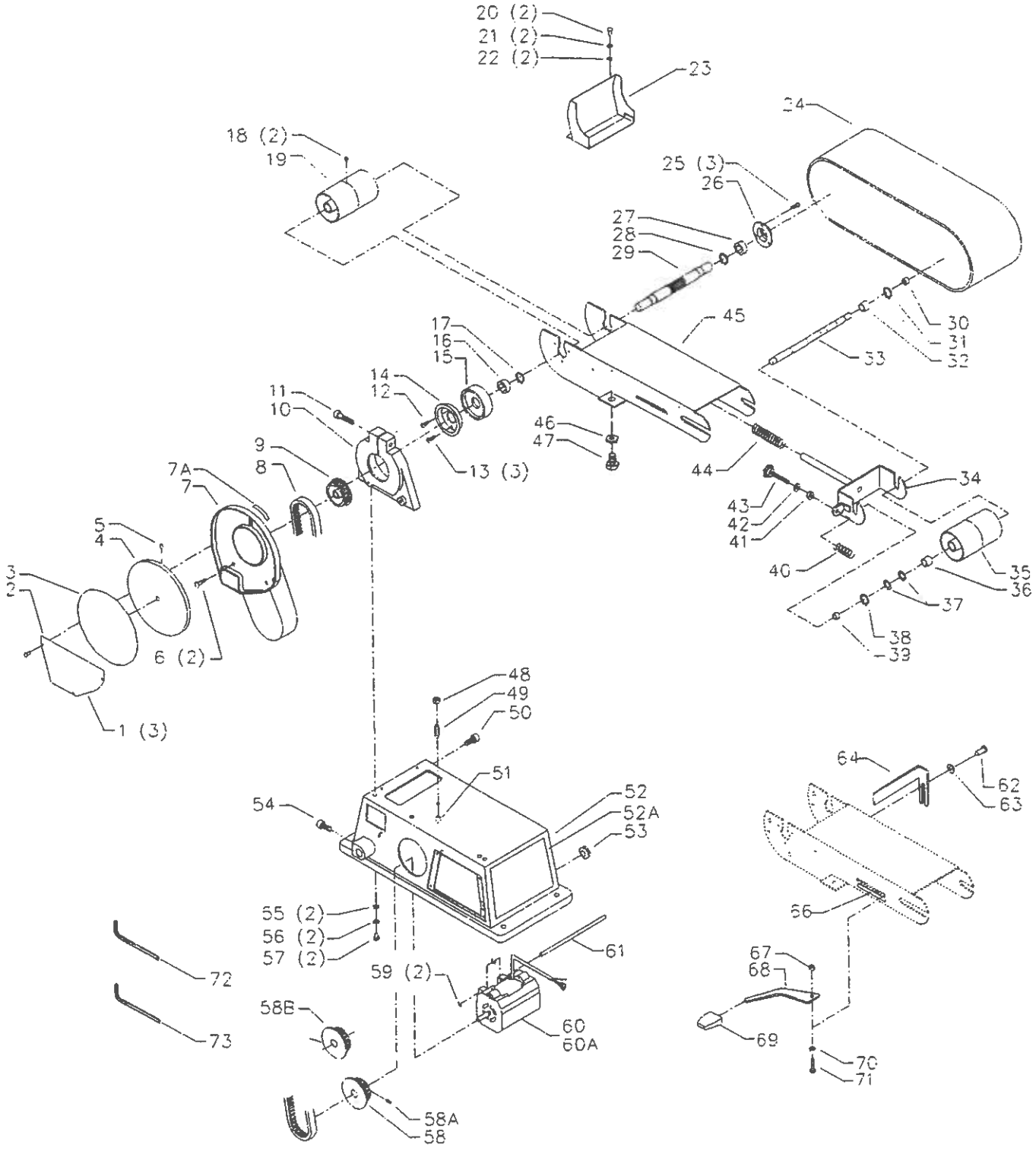
1 The machine should be cleaned frequently.
2 Clean the sander with an air spray gun after daily operation.
3 Check the condition of the belt. Replace it if the belt is worn.
4 If the power cord is worn, cut. or damaged in any way, have it replaced immediately.

REPLACEMENT PARTS

Replacement parts may be ordered from your local distributor.
When ordering replacement parts, always provide the sufficient data as follows :

/ Model Number;
/ Serial Number;
/ Parts Number;
/ Parts Name;
/ Quantity of the Parts you required.

4" BELT / 6" DISC SANDER

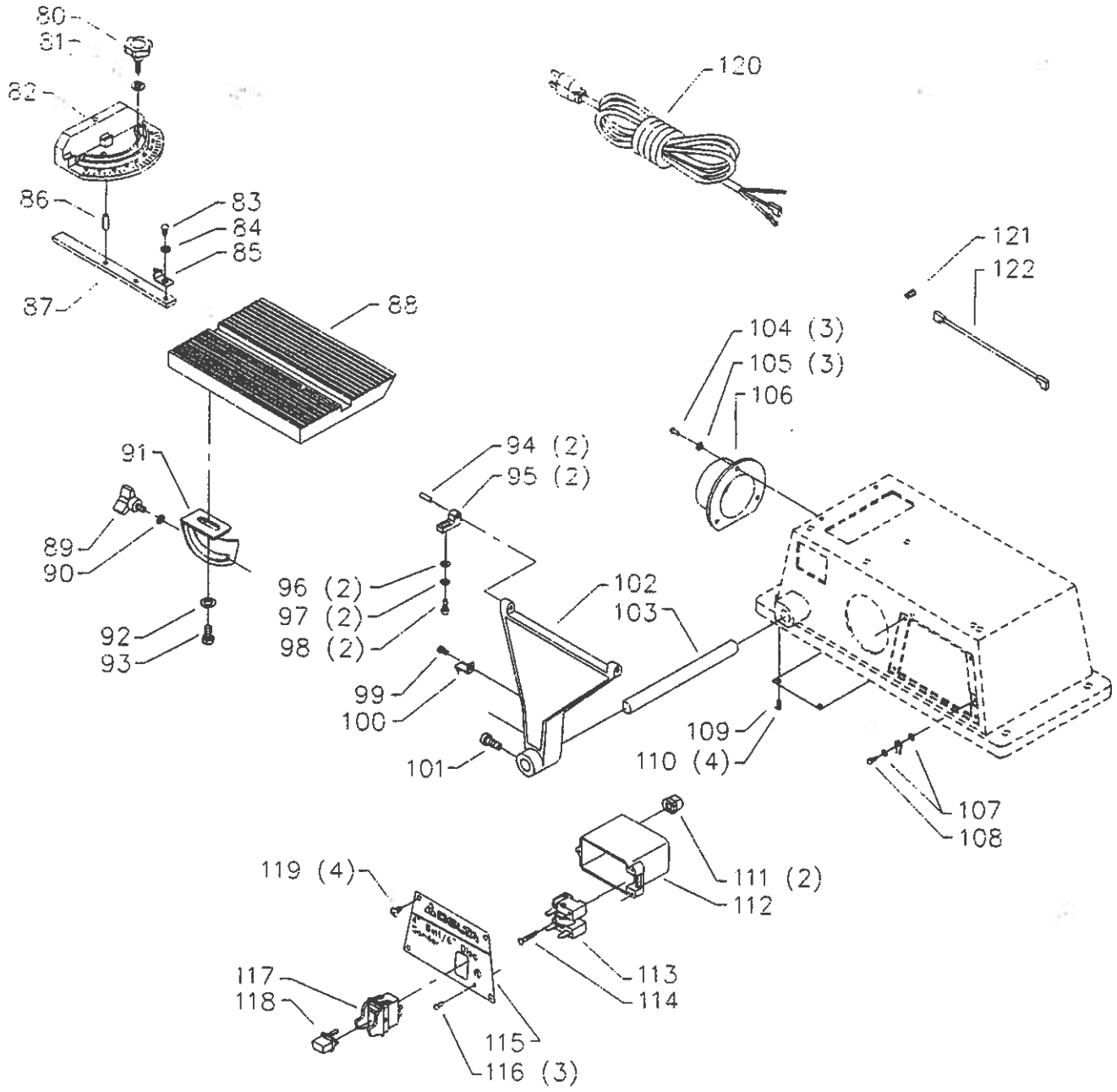


REPLACEMENT PARTS

REF. NO.	PART NUMBER	DESCRIPTION
1	1310547	(DIN 7981B) M4.2 X 12MM PAN HD SCR
2	1347201	COVER
3	OPTIONAL	SANDING DISC
4	1341557	SANDING PLATE
5	901-04-150-0208	1/4-20 X 1/4" HEX SOC SET SCR
6	1246090	(DIN 84) M6 X 30MM CHEESE HD SCR
7	1347202	GUARD, *INCL:*
7A	1340546	ROTATION LABEL
8	1347220	BELT
9	1341560	PULLEY
10	1347203	TRUNNION
11	1243554	(DIN 912) M8 X 35MM HEX SOC HD SCR
12	1343053	M5 X 10MM PAN HD SCR
13	901-02-010-0541	#10-24 X 3/4" ROUND HD SCR
14	1347204	RETAINER
15	1347205	PIVOT
16	400-08-139-0006	BALL BEARING
17	1243497	EXT RET RING
18	901-04-150-0208	1/4-20 X 1/4" HEX SOC SET SCR
19	1341528	SANDING DRUM
20	1343053	M5 X 10MM PAN HD SCR
21	1343538	(DIN 7980) M5.1 LOCK WASHER
22	1246102	(DIN 125) M5.3 FLAT WASHER
23	1347206	DUST CHUTE
24	OPTIONAL	SANDING BELT
25	901-02-140-3712	#10-24 X 3/8" BIND HD SCR
26	1341531	RETAINER
27	400-08-139-0006	BALL BEARING
28	1243497	EXT RET RING
29	1347207	DRIVE SHAFT
30	1341533	RUBBER WASHER
31	1243497	EXT RET RING
32	1341534	BUSHING
33	1341535	IDLER SHAFT
34	1341538	BRACKET
35	1341536	SANDING DRUM
36	1341534	BUSHING
37	1341580	WAVE WASHER
38	1243497	EXT RET RING
39	1341533	RUBBER WASHER
40	1341537	SPRING

REF. NO.	PART NUMBER	DESCRIPTION
41	1341526	WASHER
42	1341539	RUBBER WASHER
43	1341540	TRACKING KNOB W/SCR
44	1341532	SPRING
45	1347208	SANDING BELT ARM
46	1341546	1/2-13 JAM NUT
47	1341545	SCR
48	1243398	(DIN 934) M8 HEX NUT
49	1347219	(DIN 915) M8 X 40MM HEX SOC SI
50	1246054	(DIN 912) M8 X 20MM HEX SOC HI
51	1347209	BUMPER
52	1347210	BASE
52A	1344383	WARNING LABEL
53	1341544	GROMMET
54	1246054	(DIN 912) M8 X 20MM HEX SOC HI
55	1243526	(DIN 125) M8.4 FLAT WASHER
56	1246157	(DIN 7980) M8.1 LOCK WASHER
57	1246016	(DIN 933) M8 X 25MM HEX HD SCI
58	1349900	MOTOR PULLEY, *(CMO, SEE NOTE A), INCL:*
58A	1349902	(DIN 916) M5 X 8MM HEX SOC SE *(CMO, SEE NOTE A)*
58B	1341564	PULLEY *(EMO, SEE NOTE A)*
59	1341547	EXT RET RING
60	1349901	MOTOR ASSY *(CMO, SEE NOTE A)*
60A	1347221	MOTOR ASSY *(EMO, SEE NOTE A)*
61	1347212	SUPPORT ROD
62	901-01-060-0611	1/4-20 X 1/2" HEX HD SCR
63	904-01-010-1604	5/16" FLAT WASHER
64	1347213	FENCE
66	1340550	TENSION LABEL
67	1341583	1/4-20 LOCK NUT
68	1341541	LEVER
69	1341542	SLEEVE
70	904-02-020-1702	1/4" LOCK WASHER
71	901-01-060-0623	1/4-20 X 1" HEX HD SCR
72	428-07-101-0002	6MM HEX WRENCH
73	1341571	1/8"X 4" HEX WRENCH

CMO = CURRENT MODELS ONLY
EMO = EARLY MODELS ONLY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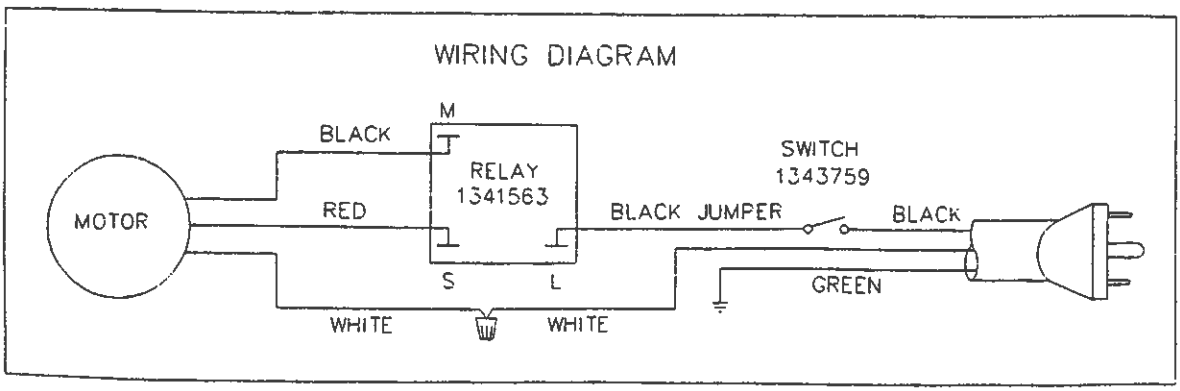
WIRING DIAGRAM
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RELAY
1341563
SWITCH
1343759
MOTOR
RED
BLACK JUMPER
BLACK
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L
GREEN
WHITE
WHITE

REPLACEMENT PARTS

REF. NO.	PART NUMBER	DESCRIPTION
*	1341584	MITER GAGE ASSY, *CONST OF:*
80	1341577	KNOB
81	904-01-010-1604	5/16" FLAT WASHER
82	1341576	MITER GAGE BODY
83	1246088	(DIN 84) M5 X 6MM CHEESE HD SCR
84	904-01-010-1603	1/4" FLAT WASHER
85	1341574	POINTER
86	1341575	PIN
87	1341573	GUIDE BAR
*	1349995	TABLE ASSY, *CONST OF:*
88	1341551	TABLE
89	1341555	KNOB
90	904-01-010-1603	1/4" FLAT WASHER
91	1341556	TABLE ANGLE SCALE
92	904-01-010-1605	3/8" FLAT WASHER
93	901-01-060-0606	5/16-18 X 5/8" HEX HD SCR
94	1341550	PIN
95	1341552	SUPPORT
96	904-01-010-1603	1/4" FLAT WASHER
97	904-03-030-1795	3/16" EXT TOOTH WASHER
98	901-03-010-0224	#10-32 X 1/2" HEX SOC HD SCR
99	901-02-010-0551	#10-32 X 1/4" ROUND HD SCR
100	1341554	POINTER
101	1246054	(DIN 912) M8 X 20MM HEX SOC HD SCR
102	1347214	BRACKET
103	1341549	SUPPORT ROD
104	1343053	M5 X 10MM PAN HD SCR
105	1246102	(DIN 125) M5.3 FLAT WASHER
106	1347215	DUST SPOUT
107	904-03-030-1795	3/16" EXT TOOTH WASHER
108	1341235	(DIN 84) M4 X 12MM CHEESE HD SCR
109	1347216	COVER
110	1246047	(DIN 84) M5 X 16MM CHEESE HD SCR
111	1341570	STRAIN RELIEF
112	1341568	SWITCH BOX
113	1341563	RELAY
114	1341582	#08-32 X 1 1/4" THD FORM SCR
115	1344384	NAMEPLATE
116	1310547	(DIN 7981B) M4.2 X 12MM PAN HD SCR
117	1343759	SWITCH, *INCL:*
118	400-06-068-0002	SWITCH KEY
119	1243394	(DIN 84) M5 X 10MM CHEESE HD SCR
120	1341566	CORD *W/TERMINAL*
121	1341198	WIRE NUT
122	1347218	JUMPER WIRE

** NOT SHOWN ASSEMBLED*