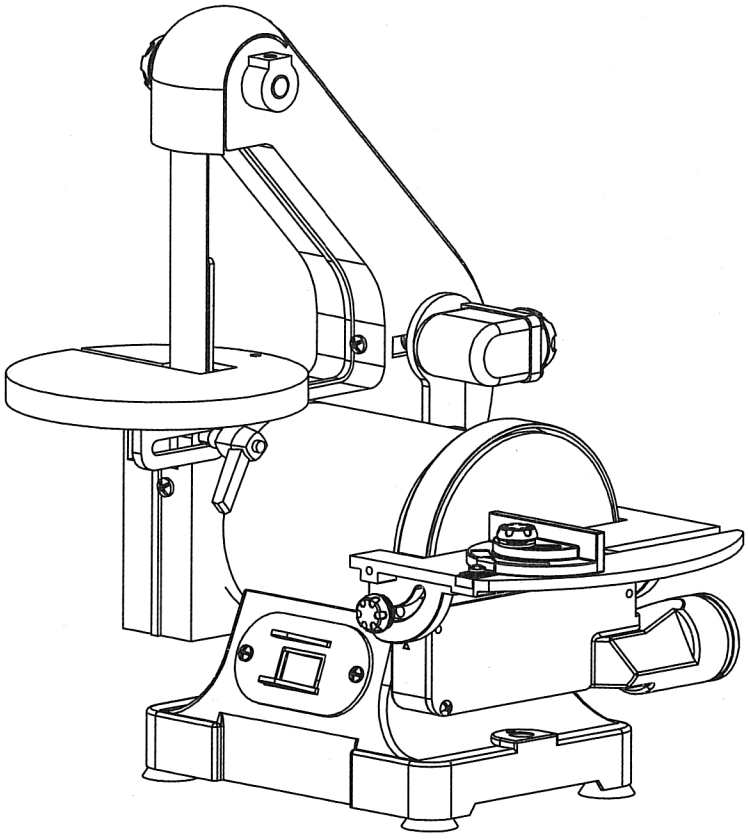
INSTRUCTION MANUAL

DISK/BELT SANDER



MAKE SURE you read and understand all the safety instructions in this manual and that you are familiar with your sander before operating it. If you fail to do so, serious injury may occur.

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GENERAL SAFETY INSTRUCTIONS
FOR MACHINES

Extreme caution should be used when operating all power tools. Know your power tool, be familiar with its operation, read through the owner's manual and practice safe usage procedures at all times.

- ALWAYS read and understand the user manual before operating the machine.
- CONNECT your machine ONLY to the matched and specific power source.
- ALWAYS wear safety glasses respirators, hearing protection and safety shoes, when operating your machine.
- DO NOT wear loose clothing or jewelry when operating your machine. Wear protective hair covering.
- A SAFE ENVIRONMENT is important. Keep the immediate vicinity of your machine free of dust, dirt and other debris.
- BE ALERT! DO NOT use prescription or other drugs that may affect your ability or judgment to safely use your machine.
- DISCONNECT the power source when changing drill bits, hollow chisels, router bits, shaper heads, blades, knives, or sandpaper, or when making other adjustments or repairs.
- NEVER leave a tool unattended while it is in operation.
- NEVER allow unsupervised or untrained personnel to operate the machine
- NEVER reach over the table when the tool is in operation.
- ALWAYS keep blades, knives and bits sharpened and properly aligned.
- ALL OPERATIONS MUST BE performed with the guards in place to ensure safety.
- ALWAYS use push sticks and feather boards to safely feed your work through the machine.
- ALWAYS make sure that any tools used for adjustments are removed before operating the machine.
- ALWAYS keep bystanders safely away while the machine is in operation.
- NEVER attempt to remove jammed cutoff pieces until the blade has come to a full stop.

1" x 30" BELT & 5" DISK SANDER
SPECIFIC SAFETY INSTRUCTIONS

- MAKE SURE the sander is connected to the proper power source.
- ALL THE GUARDS must be in place while operating the sander to ensure operator safety.
- MAKE SURE before making any adjustments, the switch is in the "OFF" position and the cord is un-plugged from the power source.
- NEVER sand more than one work piece at a time.
- DO NOT wear loose clothing while operating this sander.
- KEEP YOUR WORK AREA CLEAN. Cluttered areas and workbenches increase the chance of accidents.
- NEVER LEAVE the sander unattended while it is running.
- KEEP CHILDREN AWAY. All visitors should be kept at a safe distance from the work area.
- DO NOT force the sander. It will do the job better and will be safer at the operating rate for which it is designed.
- ALWAYS wear a dust mask and safety glasses while operating the sander. The tiny dust particles produced by the sander can cause serious health problems.
- ALWAYS inspect the work-piece for and remove any staples, nails, knots or any foreign material before sanding.
- ALWAYS operate the sander in a well-ventilated area and use a dust collection system for dust removal whenever possible.
- ALWAYS hold the work piece firmly when sanding. When not using the table, i.e. sanding free-hand, grip the work piece with both hands.
- USE THE STOP FENCE when performing horizontal sanding on the belt sander (if so equipped).
- MAINTAIN AND SERVICE your sander regularly as instructed in this user manual.
- MAKE SURE you have read and understood all the safety instructions in this manual and that you are familiar with your sander before operating. If you fail to do so, serious injury could occur.

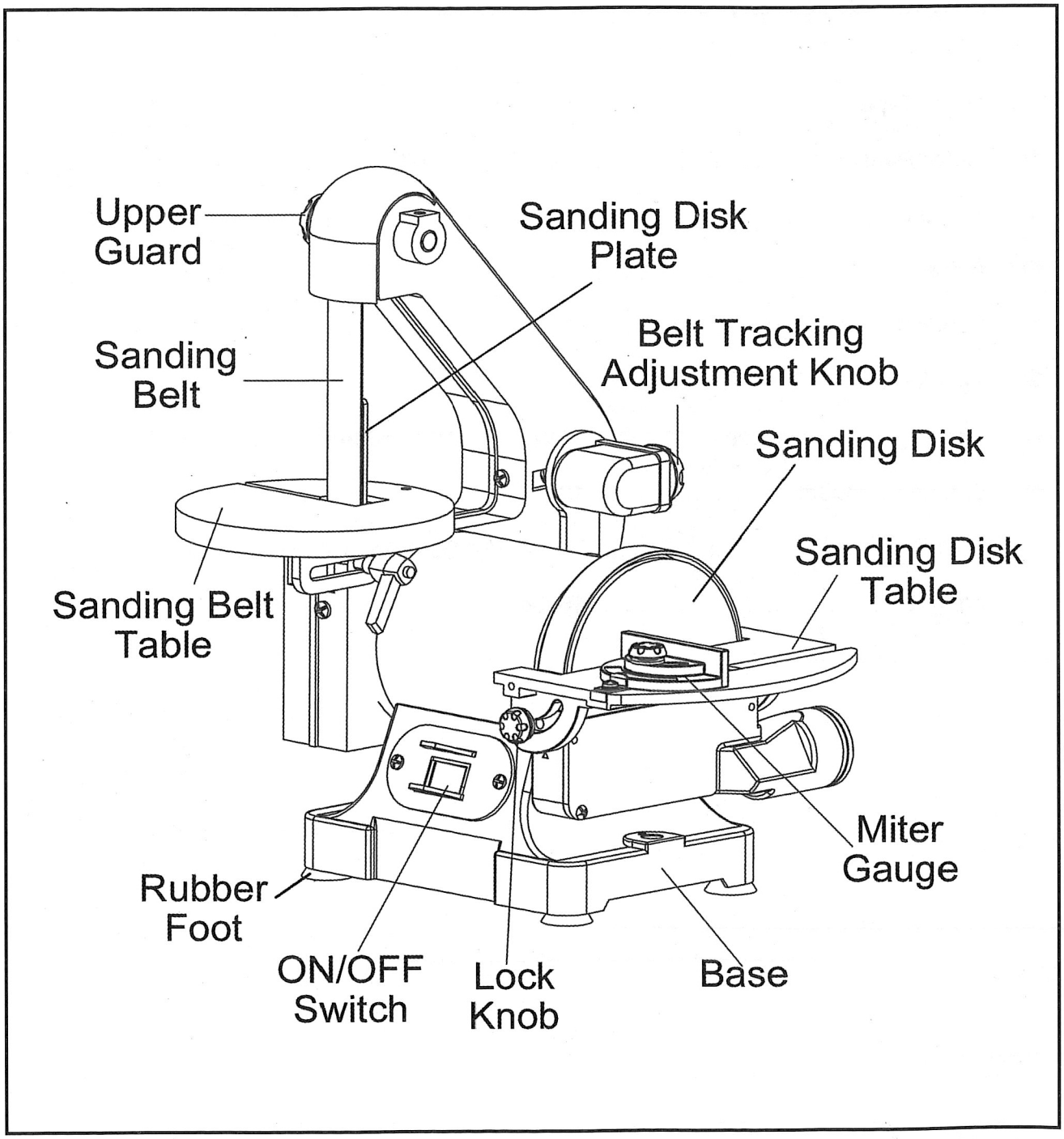
WARNING!

The safety instructions given above cannot be the last word, because the environment in every shop is different. Always consider satefy first as it applies to your individual working conditions.

DISK/BELT SANDER
FEATURES

- Motor Type .... Induction
- Motor Ratings 1/3-HP, 120-Volts, 60-Hz
- No Load Speed..... ..... 3450 RPM
- Amps 2.3
- Sanding Disk Diameter..... ..... 5"
- Sanding Disk Grit..... 80
- Sanding Belt Size/Speed .... 1" Width x 30" Length/Speed 3160 ft/min
- Sanding Belt Grit 100
- Dust Port..... ..... Two 1-1/4" Dust Ports with adapter
- Weight..... ..... 16 lbs

1" x 30" BELT & 5" DISK SANDER
PHYSICAL FEATURES



PROPER GROUNDING

Grounding reduces the risk of electric shock.

Make sure the cord is plugged into a properly installed and grounded power outlet. To prevent electrical hazards, have a qualified electrician ensure that the line is properly wired.

Make sure that the appliance is connected to an outlet having the same configuration as the plug. If an adaptor plug is used, it must be attached to the metal screw of the receptacle.

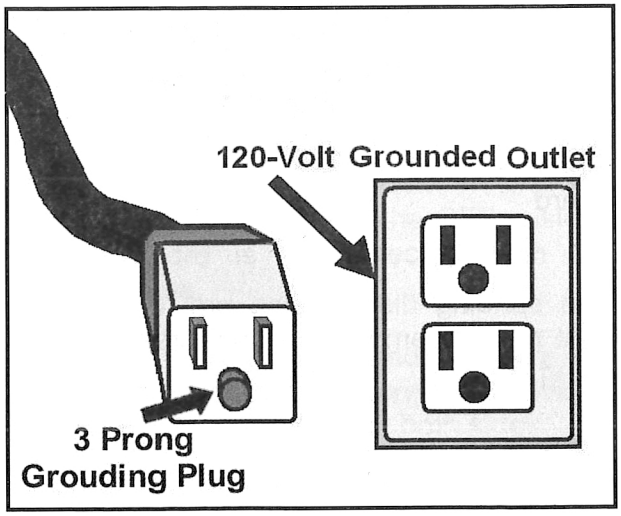


Figure-1 120-Volts outlet

It is strongly recommended you do not use extension cords with your machine. Always try to position your machine close to the power source so that you do not need to use extension cords.

If you find it necessary to use an extension cord, make sure the extension cord does not exceed 50-feet in length and the cord is at at least 14-gauge to prevent motor damage.

WARNING!

Improper connection of the equipment-grounding conductor can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.

UNPACKING

The machine is packed and shipped in a carton for safe transport. When unpacking, carefully inspect the contents to ensure that nothing has been damaged and check that the sander and the parts are in good con-diton.

While checking, if you cannot find a part, check if the part is already installed on the machine. (Some of the parts come pre-assembled on the machine)

SANDING BELT TABLE

The machine is equipped with a tilting table secured by a lock lever.

To install the table:

Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Pass the sanding belt through the slot on the table and position the table on the machine as shown in figure-2.

Secure the table to the machine using the lock lever. See figure-2.

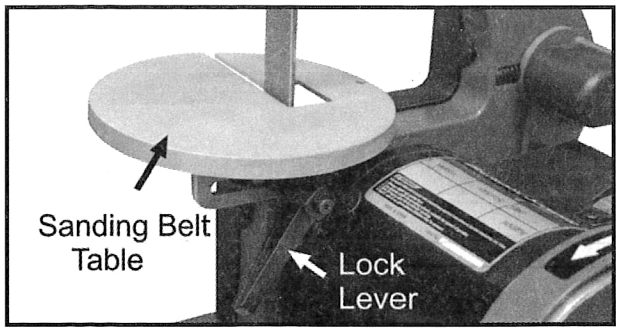


Figure-2 Installing the sanding belt table

DUST PORT

For optimal dust removal, the sander is equipped with two dust ports.

The sanding belt dust port with the side guard is mounted to the machine using a lock knob and two screws. See figure-3.

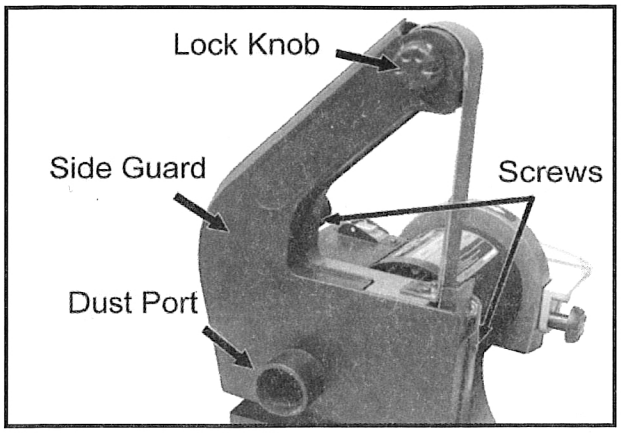


Figure-3 Sanding belt dust port with side guard

The sanding disk is also provided with a dust port to remove the dust created while using the disk.

To install the dust chute:

Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Attach the dust port to the sander as shown in figure-4 and secure it using screws and washers provided.

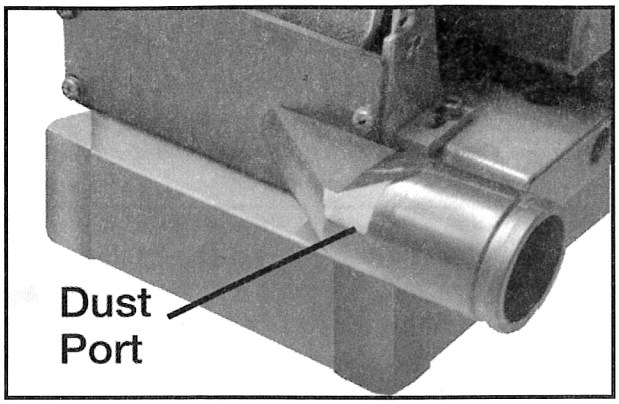


Figure-4 Installing sanding disk dust port

SANDING DISK TABLE

Machine is provided with a work table for disk sanding operation.

To install the sanding disk table:

Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Attach the table to the sander above the dust chute as shown in figure-5 and secure it using two lock knobs from both sides.

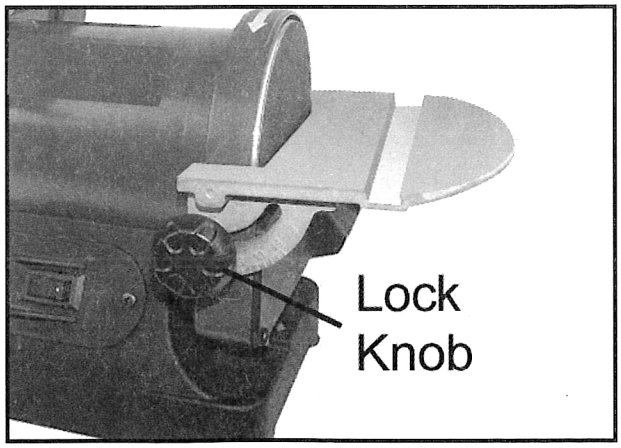


Figure-5 Installing the sanding disk table

BELT TRACKING

Belt tracking means adjusting the belt in the center of the rollers so that it runs true and does not wander left or right.

The sander is provided with a belt tracking adjustment knob as shown in figure-6.

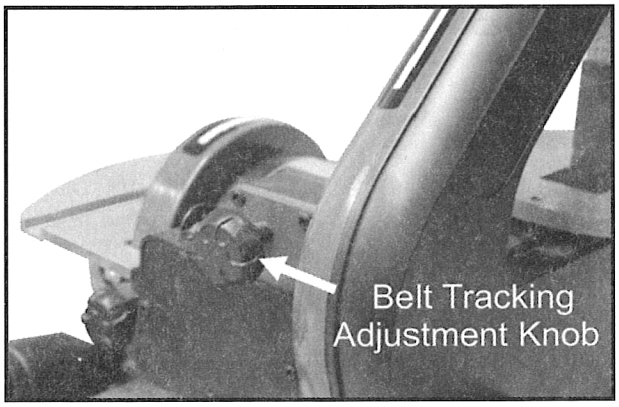


Figure-6 Belt Tracking adjustment knob

To adjust the belt tracking:

Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Remove the upper guard lock knob, the screws holding the side cover and remove the side cover to expose the rollers.

Rotate the sanding disk with your hand which will rotate the sanding belt and watch where the belt rides on the rollers.

Keep rotating the disk with one hand and use the other hand to turn the belt tracking adjustment knob.

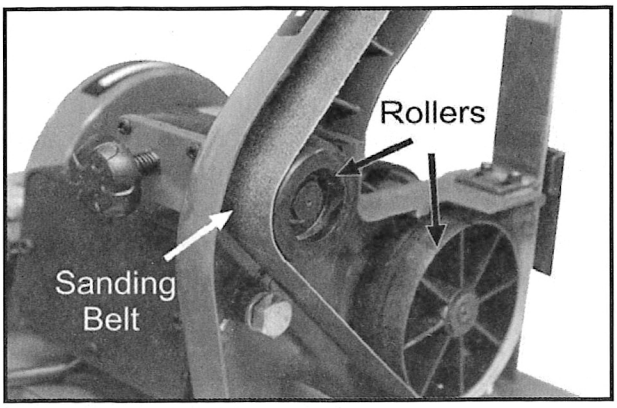


Figure-7 Adjusting the belt tracking

Once the belt is in the center of the rollers, stop turning the adjustment knob and the disk.

Re-install the side cover and connect the cord to the power source.

Turn the sander ON and then quickly OFF and verify that the belt is riding true in the center of the rollers.

UPPER GUARD

Install the upper bracket to the belt sanding arm and secure it with the lock knob as shown in figure-8.

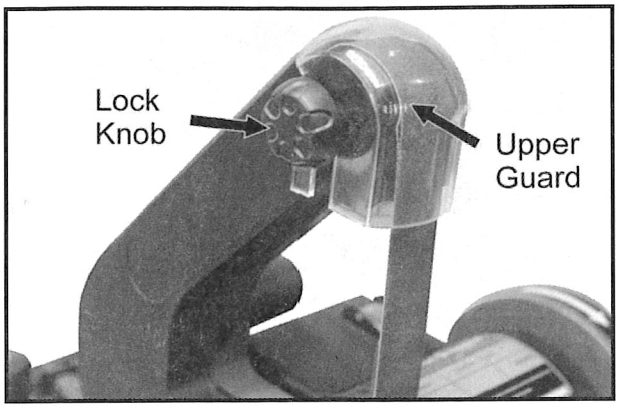


Figure-8 Installing the upper guard

TEST RUN

Once you have assembled the machine, perform a test run to see that the machine powers up and runs properly.

All the tools and objects used for assembling the machine should be removed and cleared away during test run.

During the test run make sure the ON/OFF swith and all the safety features on the machine are working properly.

Connect the machine to the correct power source. Stand to the side of the sander and start the machine. During the test run if there is any unusual noise or vibration, disconnect the machine from the power source immediately. Check all the parts you have assembled, once again and try to find out the problem.

BELT SANDER PLATEN

The platen is a steel support plate that is positioned behind the sanding belt, it rises from the table level to a point several inches above the table surface. The platen provides support to the work when sanding and it should be adjusted so that it is almost touching the back of the sanding belt.

To adjust the platen:

Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Loosen the lever securing the table and remove it to access the hex screws.

Loosen the two hex screws securing the platen to the sander frame.

Adjust the platen so that it is almost touching the back of the belt and re-tighten the screws. See figure-9.

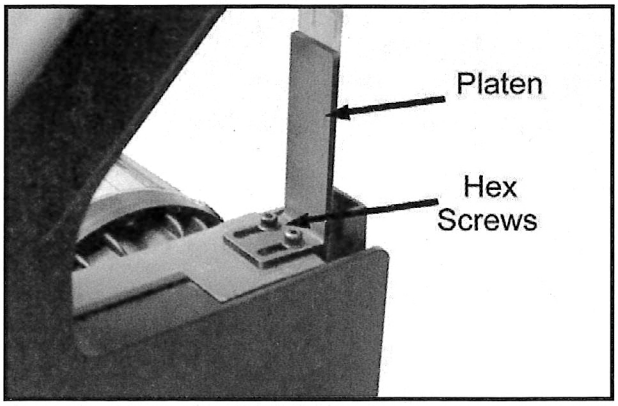


Figure-9 Sanding platen

SQUARING THE TABLES

Belt results can be attained when the table is at 90° (“square”) to the belt/disk.

To square the table:

Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Loosen the lock knobs/lever securing the table to the machine and place a square on the table as shown in figure-10 and figure-11.

Adjust the table so that it is square with the belt/disk and tighten the knobs.

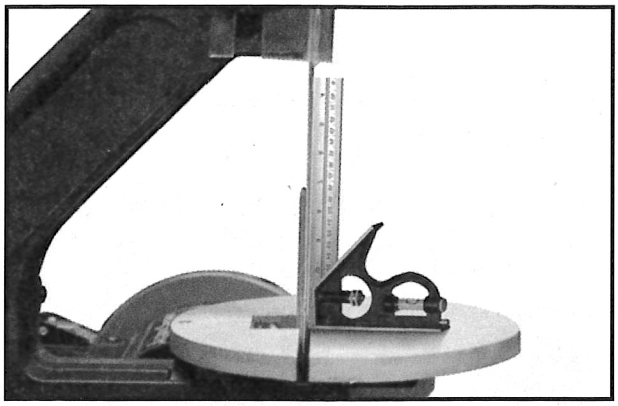


Figure-10 Squaring table to the belt

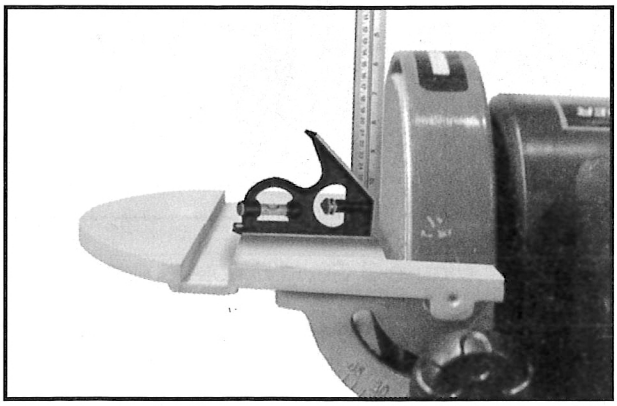


Figure-11 Squaring table to the disk

SANDING BELT REPLACEMENT

To replace the sanding belt:

Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Remove the upper guard and the side cover by removing the lock knob and loosening the two screws securing the upper guard and the side cover. See figure-12

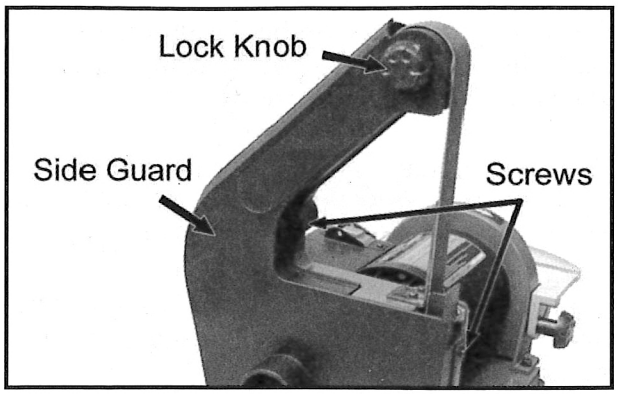


Figure-12 Removing the side cover

The middle roller features spring at the back and can be pushed towards the table.

To remove the belt, hold the adjusting shaft guard and apply moderate pressure just to loosen the belt tension and push it towards the table. See figure-14.

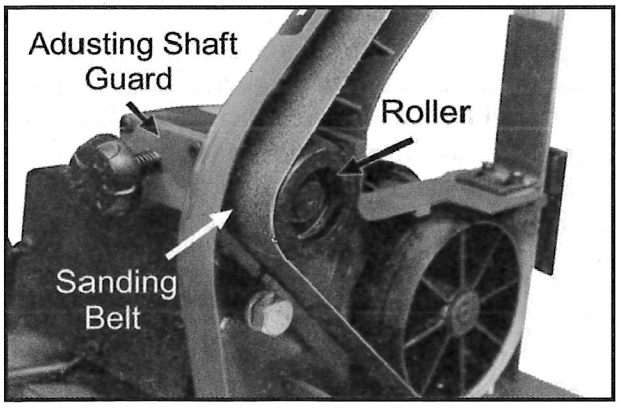


Figure-13 Replacing the belt

Take the belt off the rollers with the other hand and replace it with a new one. Check that the arrow printed on the back of the belt points in the direction of travel.

Once the belt is positioned on the wheels, remove your hand and the let the adjusting shaft guard to come in its normal position and tension the belt.

Perform the belt tracking adjustment and re-install the cover and the table.

SANDING DISK REPLACEMENT

To replace the sanding disck:

Turn the switch OFF and remove the cord from the power source.

Loosen the sanding disk table and the dust chute by removing the knobs and screws securing them to the sander.

Peel the old sanding disk from the sanding wheel and clean the surface of the wheel.

Peel off of the release paper from the back of the new sanding disk to expose its self adhesive coating and position it on the wheel. Make sure it is placed in the center of the wheel. See figture-14.

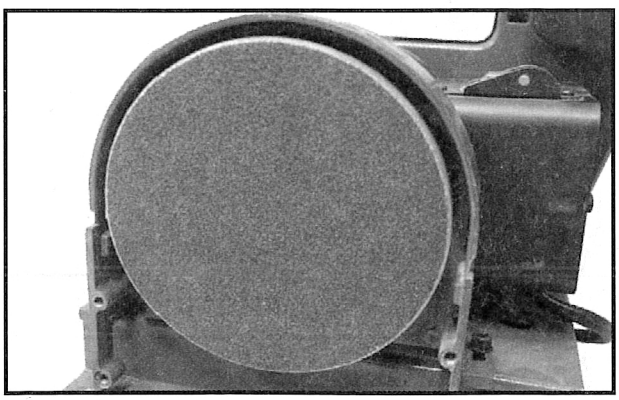


Figure-14 Installing sanding disk

MITER GAUGE

Machine is provided with a miter gauge and can be used on the disk table.

The miter gauge head can be set up to 45° right or left by loosening the lock knob, setting the miter gauge head to the desired angle, and tightening the lock knob.

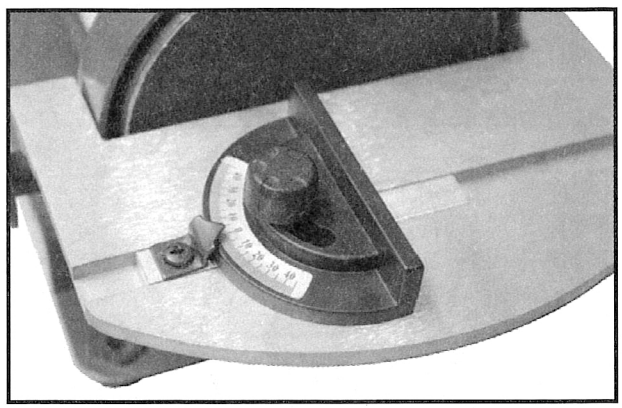


Figure-15 Miter gauge

WARNING!

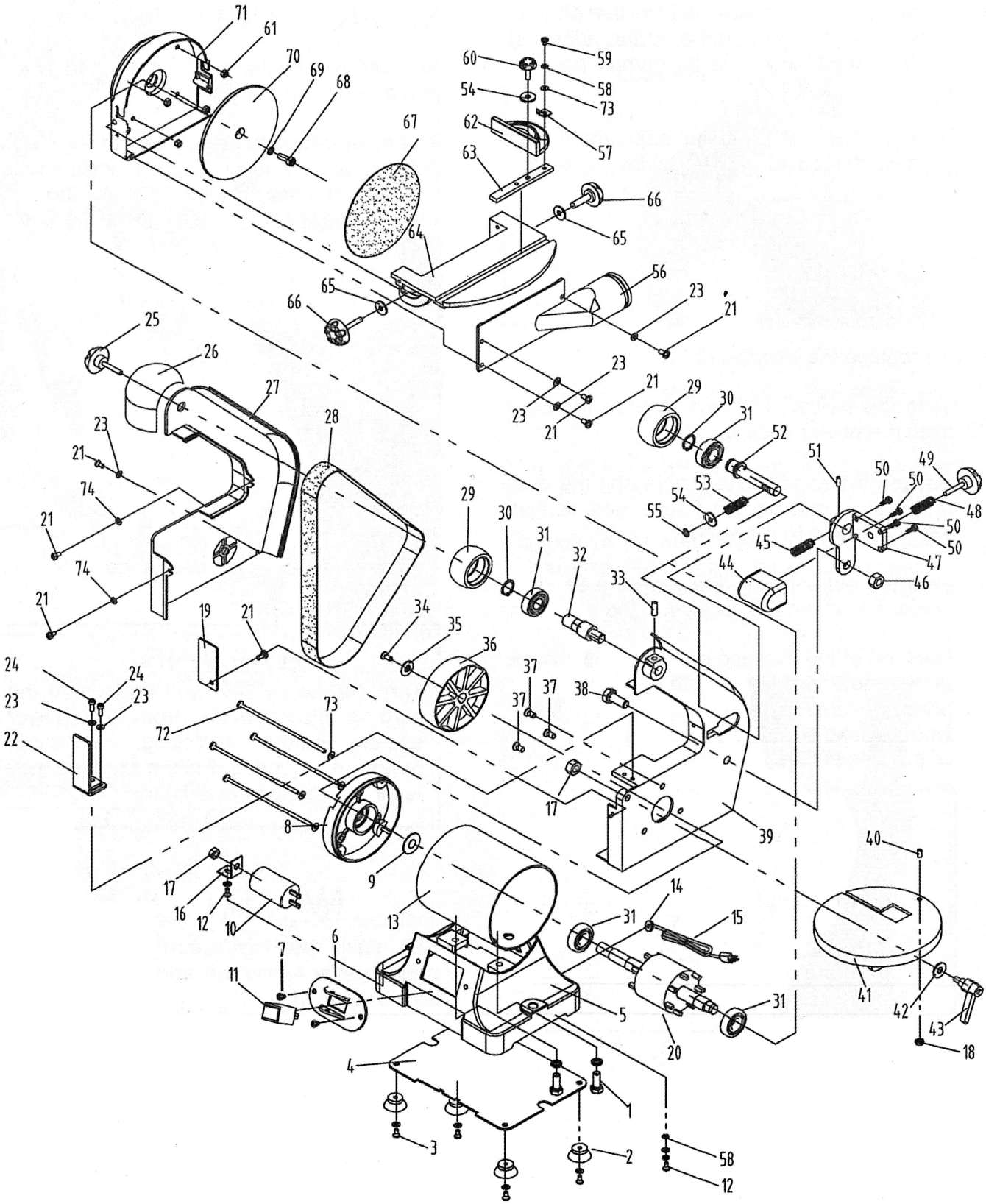
Turn the switch OFF and make sure the cord is disconnected from the power source before installing, servicing, removing any parts. Failure to do so may result serious personal injury.

MAINTENANCE

All ball bearings are sealed and permanently lubricated and do not require any lubrication.

Check the sander for loose mounting hardware, worn or damaged wires, damaged abrasive belt and disk or any other unsafe condition before each use.

Parts Diagram



Parts List

NO	DESCRIPTION	SPEC	QTY
1	Philips screw +flat washer assy	M6x18	2
2	Rubber foot		4
3	Philips screw +flat washer assy	M4x12	4
4	Base plate		1
5	Base		1
6	Switch Plate		1
7	Philips screw	M5x10	2
8	Ends Caps		1
9	Wavy Washer	35	1
10	Capacitor		1
11	Switch		1
12	Philips screw +flat washer Assembly	M4x8	2
13	Stator		1
14	Cord Clip		1
15	Cord & Plug		1
16	Capacitor Support		1
17	Hex Nut	M8	2
18	Hex Nut	M6	1
19	Belt Guard plate		1
20	Rotor		1
21	Philips screw	M4x10	7
22	Sanding Belt limiting plate		1
23	Flat washer	D4	6
24	Hex screw	M4x10	2
25	Locking knob		1
26	Belt guard		1
27	Belt support cover		1
28	Belt 100gr	1 **x30**	1
29	Idler wheel		2
30	Spring washer	D15	2
31	Bearing	6202	4
32	Idler shaft		1
33	Hex screw	M6x8	1
34	Philips screw	M5x16 Left	1
35	Locking washer		1
36	Driving wheel		1
37	Philips screw	M6x10	3
38	Hex Bolt	M10x25	1
39	Sanding Belt support		1
40	Hex screw	M6x20	1
41	Belt Working table		1
42	Big flat washer	D8	1
43	Locking knob assy		1
44	Adjusting shaft guard		1
45	Adjusting spring		1
46	Nut	M10	1
47	Adjusting fixing plate		1
48	Adjusting spring I		1

NO	DESCRIPTION	SPEC	QTY
49	Adjusting knob		1
50	Philips screw	ST4.2x10	4
51	Spring Column Pin	φ3x20	1
52	Adjusting shaft		1
53	Adjusting spring II		1
54	Big flat washer	D5	2
55	Split washer	3.5	1
56	Sanding Disk Cover		1
57	Pointing Arrow		1
58	Outer tooth locking washer	D4	2
59	Philips screw	M4x6	1
60	Miter Gauge Handle		1
61	Hex knob	M4	4
62	Miter Gauge		1
63	Rod		1
64	Disk Table		1
65	Flat washer	D6	2
66	Table locking knob		2
67	Disk Paper 80#	5	1
68	Hex screw	M6x16	1
69	Outer tooth locking washer	D6	1
70	Disk		1
71	Disk safeguard		1
72	Philips screw	M4x155	4
73	Flat washer	D4	5
74	Big flat washer	D4	2