

Save This Manual
For Future Reference

SEARS

**owner's
manual**

**MODEL NO.
113.225941**

**Belt and Disc Sander with
Motor and Legs**

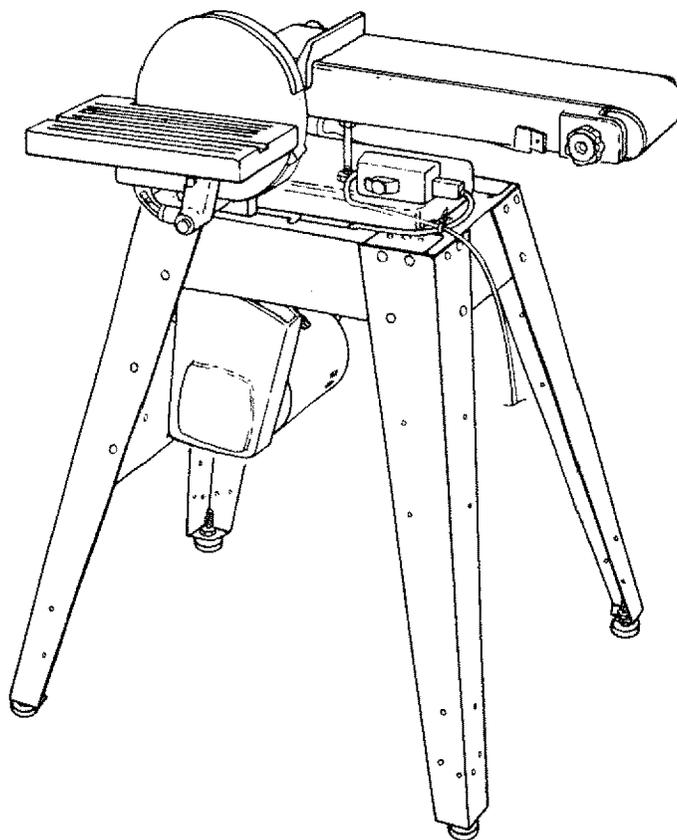
**Serial
Number** _____

Model and serial numbers may
be found on the right hand side
of the base.

You should record both model
and serial number in a safe
place for future use.

**FOR YOUR
SAFETY**

**READ ALL
INSTRUCTIONS
CAREFULLY**



SEARS / CRAFTSMAN
**BELT AND DISC
SANDER**

- assembly
- operating
- repair parts

Sears Roebuck and Co., Hoffman Estates, IL. 60179 U.S.A.

FULL ONE YEAR WARRANTY ON CRAFTSMAN STATIONARY TOOL

If this stationary tool fails due to a defect in material or workmanship within one year from the date of purchase, CONTACT THE NEAREST SEARS SERVICE CENTER IN THE UNITED STATES and Sears will repair it free of charge.

This warranty applies only while this product is in the United States.

If this Sander is used for commercial or rental purposes, this warranty will apply for ninety days from the date of purchase.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., D/817 WA Hoffman Estates, IL. 60179

Safety Instructions For Belt and Disc Sander

Safety is a combination of common sense, staying alert and knowing how your belt and disc sander works. Read this manual to understand this sander.

Safety Signal Words

DANGER: means if the safety information is not followed someone **will** be seriously injured or killed.

WARNING: means if the safety information is not followed someone **could** be seriously injured or killed.

CAUTION: means if the safety information is not followed someone **may** be injured.

Before Using the Sander

WARNING: To avoid mistakes that could cause serious, permanent injury, do not plug the sander in until the following steps are completed.

- Completely assemble sander. See "Assembly" section.
- Learn the use and function of the ON-OFF switch. See "Getting to Know Your Sander" section.
- Review and understanding of all safety instructions and operating procedures in this manual.
- Review of the maintenance methods for this sander. See "Maintenance" section.

Read the following WARNING label found on the front of the sander:

When Installing Or Moving the Sander

Avoid dangerous environment. Use the sander in a dry, indoor place protected from rain. Keep work area well lighted.

Place the sander so neither the user or bystanders are forced to stand in line with the abrasive belt or disc.

To avoid burns or other fire damage, never use the sander near flammable liquids, vapors or gasses.

To avoid injury or death from electrical shock:

- Ground the sander. This sander has an approved 3-conductor cord and a 3-prong grounding type plug. Use only 3-wire, grounded outlets rated 120 volts, 15 amperes (amps). The green conductor in the cord is the grounding wire. To avoid electrocution, **never** connect the green wire to a live terminal.
- Make sure your fingers do not touch the plug's metal prongs when plugging or unplugging the sander.
- Never use this or any power sander for wet sanding. Doing so could cause electrocution, serious injury or worse.

To avoid injury from unexpected sander movement:

- Always unplug the sander before moving it.
- Put the sander on a firm level surface where there is plenty of room for handling and properly supporting the workpiece.
- Support the sander so it does not rock.
- Bolt the sander to its work surface. Use the fasteners and method shown in "Assembly" section.
- **Never stand on tool.** Serious injury could occur if the tool tips. Do not store anything above or near the tool where anyone might stand on the tool to reach it.

To Avoid Back Injury

- Get help or use recommended casters when you need to move the sander
- Always get help if you need to lift the sander.

▲WARNING

1. Read Manual before using sander.

2. Wear safety goggles that meet ANSI Z87.1.

3. Wear a dust mask.

4. Maintain 1/16" maximum clearance between table and sanding belt and disk.

5. Always support workpiece with backstop or worktable.

6. Avoid "Kickback" (workpiece thrown at you) use only the left half of the disk.

7. Avoid fire. Clean out all sawdust and disconnect from any vacuum before sanding metals.

Before Each Use:

Inspect your sander. Check for:

- alignment of moving parts,
- binding of moving parts,
- broken or damaged parts,
- fixtures that cause a gap larger than 1/16" between work support and sanding surface,
- sanding belt narrower than 4 inches. Narrower belts uncover parts that could trap your fingers.
- worn or damaged electric cords,
- stable mounting
- any other condition that may affect the way the sander works.

If any part is missing, bent, or broken in any way, or any electrical parts don't work properly, turn the sander off and unplug the sander. Replace damaged, missing, or failed parts before using the sander again.

Disconnect the sander to avoid injury from accidental starting. Turn the switch off, unplug the sander and remove the switch key before changing the setup, sanding disc or belt or adjusting anything.

Maintain tools with care. Keep the sander clean for best and safest performance. Follow instructions for lubricating.

Remove wrenches from tool before turning on.

To avoid injury from jams, slips or thrown pieces:

- **Use only recommended accessories.** Consult this owner's manual for recommended accessories. The use of improper accessories may cause injury. See "Accessory" section..
- **Adjust any work support** to clear the sanding surface by no more than 1/16 of an inch. When checking clearance between the belt and work support, press the belt flat against the metal beneath it.
- **Make sure all clamps and locks are tight** and no parts have excessive play.
- **Keep work area clean.** Cluttered areas and benches invite accidents. Floor must not be slippery.

Plan Ahead To Protect Your Eyes, Hands, Face and Ears:

Know your sander. Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

To avoid injury from accidental contact with moving parts:

- Keep guards in place and in working order.
- Don't do layout, assembly, or setup work on the sander while any parts are moving.

Avoid accidental starting. Make sure switch is "OFF" before plugging sander into a power outlet.

Dress for Safety:

- Wear nonslip footwear.
- Tie back long hair.
- Roll long sleeves above the elbow.
- Noise levels vary widely. To avoid possible hearing damage, wear ear plugs or muffs when using sander for hours at a time.
- Sanding operations are usually dusty. Wear a dust mask along with the safety goggles.
- Do not wear loose clothing, gloves, neckties or jewelry (rings, wrist watches). They can get caught and draw you into moving parts.



- **Wear safety goggles.** Any power sander can throw foreign objects into the eyes. This can cause permanent eye damage. Wear safety goggles (not glasses) that comply with ANSI Z87.1 (shown on package). Everyday eyeglasses have only impact resistant lenses. They are not safety glasses. Safety goggles are available at area stores. Glasses or goggles not in compliance with ANSI Z87.1 could seriously hurt you when they break.

Plan your work. Think through how you will hold and maneuver the workpiece from start to finish.

Use the right tool. Don't force tool or attachment to do a job it was not designed to do.

CAUTION: This machine is not designed for heavy deburring operations. When finishing metals, sparks or hot fragments could cause a fire. To avoid this:

- **Disconnect any dust collecting hose from the sander.**
- **Remove all traces of wood dust from inside the sander.**
- **Remove all traces of metal dust from inside the sander before sanding wood again.**

Inspect your workpiece. Make sure there are no nails or foreign objects in the part of the workpiece to be sanded.

Plan the way you will hold the workpiece from start to finish. Avoid awkward operations and hand positions where a sudden slip could cause finger or hand to move into a sanding surface. Keep fingers away from where the belt goes into the dust trap.

Don't overreach. Keep good footing and balance.

Keep your face and body to one side. Stay out of line with a possible throwback.

Safety Instructions for Belt and Disc Sander (continued)

Plan your work to avoid **THROWBACKS** - when the workpiece catches on the sanding belt or disc and is torn from your hands.

- Make sure there is no debris between the workpiece and its supports.
- When sanding irregularly shaped workpieces, plan your work support so it will not slip and be pulled from your hands.
- Use extra caution with large, very small or awkward workpieces.
- Never use this tool to finish pieces too small to hold by hand.
- Use extra supports (tables, saw horses, blocks, etc.) for any workpieces large enough to tip when not held down to the table top.
- Never use another person as a substitute for a table extension, or as additional support for a workpiece that is longer or wider than the basic sander table, or to help feed, support or pull the workpiece.
- When finishing on the disc, always press the workpiece against the "Down" side of the disc. Sanding against the side coming up from under the table could damage the work by making it "chatter", or tear the work from your hands and throw it.
- Sand only one workpiece at a time.
- Clear everything except the workpiece and related support devices off the table before turning the sander on.

WARNING: Don't let familiarity (gained from frequent use of your belt and disc sander) cause a careless mistake. A careless fraction of a second is enough to cause a severe injury.

Precautions to Take When Sanding Metals

When finishing metals, sparks or hot fragments could cause a fire. To avoid this:

1. Disconnect any dust collecting hose from the sander.

Whenever Sander is Running:

Before starting your work, watch the sander while it runs. If it makes an unfamiliar noise or vibrates a lot, stop immediately. Turn the sander off. Unplug the sander. Do not restart until finding and correcting the problem.

Before using the sander make sure the sanding disc turns counterclockwise.

Keep children away. Keep all visitors a safe distance from the sander. Make sure bystanders are clear of the sander and workpiece.

Don't force tool. It will do the job better and safer at its designed rate. Press the workpiece against the sanding material only hard enough to let it sand without bogging down or binding.

Before freeing any jammed material:

- Turn switch "OFF".
- Wait for all moving parts to stop.
- Unplug the sander.

Before Leaving the Sander:

Turn power off. Don't leave tool until it comes to a complete stop.

Never leave tool running unattended.

Make workshop child-proof. Disconnect master switches. Remove the yellow switch key. Store it away from children and others not qualified to use the tool. Lock the shop.

2. Remove all traces of wood dust from inside the sander before sanding metals.

3. Remove all traces of metal dust from inside the sander before sanding wood again.

Precautions to Take When Sanding Paint

Sanding of lead based paint is not recommended. It is very difficult to control the contaminated dust that could cause lead poisoning.

It is also difficult to identify if paint contains lead. Therefore, we recommend the following precautions when sanding all paints:

1. Protect your lungs. Always wear a dust mask or respirator at all times. Wear only dust masks that are suitable for working in lead paint sanding environments. Ordinary painting masks do not offer this protection.
2. Do not allow children or pregnant women to enter the work area until paint sanding job is finished and all clean up completed.
3. To prevent ingesting contaminated paint particles: Do not eat, drink, or smoke in a work area where paint is

being sanded. After sanding paint, wash and clean up before eating, drinking or smoking. Do not leave food, drinks, or tobacco products in the work area where dust can settle on them.

4. Protect the environment when sanding paint. Use a dust collection system if possible. Seal the work area with plastic if necessary. Do not track paint dust outside the work area.
5. Thoroughly clean the work area upon completion of paint sanding project. If project lasts for an extended amount of time, clean work area often. Items such as sanding dust, vacuum filter bags, plastic drop cloths, etc. should be placed in a sealed container and disposed of properly. Clean all items exposed to sanding dust.

Motor Specifications and Electrical Requirements

This machine is designed to use, and is equipped with, a 3450 RPM motor. It is wired for operation on 120 volts, 60 Hz., alternating current.

WARNING: To avoid electrocution or fire, tool must not be converted to operate on 240 volts.

For replacement motor, refer to parts list in this manual.

Connecting to Power Supply Outlet

This machine 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.

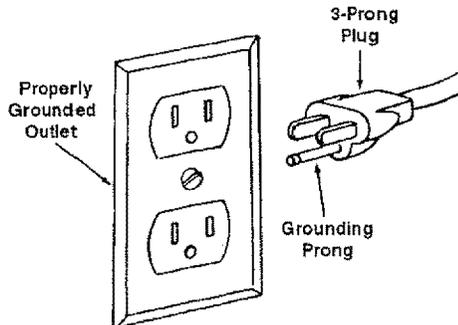
Plug power cord into a properly grounded 120V outlet protected by a 15 amp fuse or circuit breaker.

WARNING: To avoid electrocution: Do not let fingers touch the terminals of plugs when installing or removing the plug to or from the outlet.

WARNING: If not properly grounded, this power tool can cause an electrical shock, particularly when used in damp locations close to plumbing. If an electrical shock occurs there is the potential of a secondary hazard, such as your hands contacting the sanding surface.

WARNING: To avoid electrocution or fire, if power cord is torn or cut, or damaged in any way, have it replaced immediately.

Your unit is for use on 120 volts, and has a plug that looks like the one below.

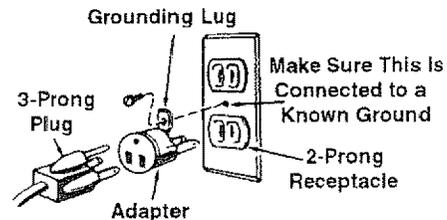


This power tool is equipped with a 3-conductor cord and grounding type plug listed by Underwriters' Laboratories. The ground conductor has a green jacket and is attached to the motor at one end and to the ground prong in the attachment plug at the other end. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment grounding conductor to a live terminal.

This plug requires a mating 3-conductor grounding type outlet as shown. This outlet must be installed and grounded according to with all local codes and ordinances.

WARNING: To avoid electrocution, if the outlet you are planning to use for this power tool is of the two prong type, Do Not Remove Or Alter The Grounding Prong In Any Manner. Use an adapter as shown below and always connect the grounding lug to a known ground.

It is recommended that you have a qualified electrician replace the two prong outlet with a properly grounded three prong outlet.



An adapter, as illustrated, is available for connecting plugs to 2-prong receptacles.

WARNING: The green grounding lug extending from the adapter must be connected to a permanent ground such as to a properly grounded outlet box. Not all outlet boxes are properly grounded.

If the grounding instructions are not completely understood or if you are not sure that your tool or outlet box is properly grounded, check with a qualified electrician.

NOTE: The adapter illustrated is for use only if you already have a properly grounded 2-prong receptacle.

NOTE: Make sure the proper extension cord is used and is in good condition.

The use of any extension cord will cause some loss of power. To keep this to a minimum and to prevent overheating and motor burnout, use the table below to determine the minimum wire size (A.W.G.) Extension cord.

Use only 3 wire extension cords that have 3-prong grounding type plugs and 3-prong receptacles which accept the tool's plug.

Extension Cord Length	Wire Sizes Required (A.W.G.)
0-25 Ft.	16
26-50 Ft.	14

Check Motor Rotation

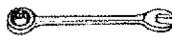
Place the motor on your workbench or on the floor. Standing clear of the motor shaft, plug the motor cord into a properly grounded outlet. Notice the rotation of the shaft. As you look directly at the motor shaft it should be turning in the counterclockwise direction (↺). If the motor shaft is turning counterclockwise, remove the plug from the power outlet and continue the assembly procedures. If the motor is turning clockwise, remove the plug from the power outlet and contact your Sears Store immediately.

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Unpacking and Checking Contents

Tools Needed

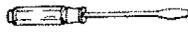


3/8" Wrench

7/16" Wrench

9/16" Wrench

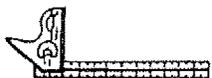
3/4" Wrench



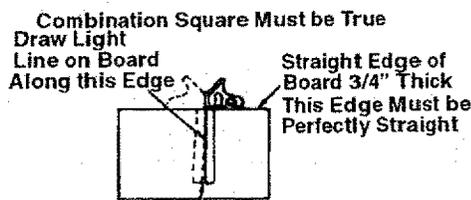
Medium
Screwdriver



#2 Phillips
Screwdriver



Combination Square



Should be no Gap or Overlap when Square
is Flipped Over in Dotted Position

Unpacking

Separate all parts from packing materials and check each item with illustration and "Table of Loose Parts."

NOTE: Before discarding any packing material make certain all items are accounted for.

WARNING: To avoid injury, if any parts are missing, do not attempt to assemble the belt and disc sander, plug in the power cord, or turn the switch on until the missing parts are obtained and installed correctly.

WARNING: For your own safety, never connect plug to power source outlet, or insert switch key until all assembly steps are complete and until you have read and understood the entire owners manual.

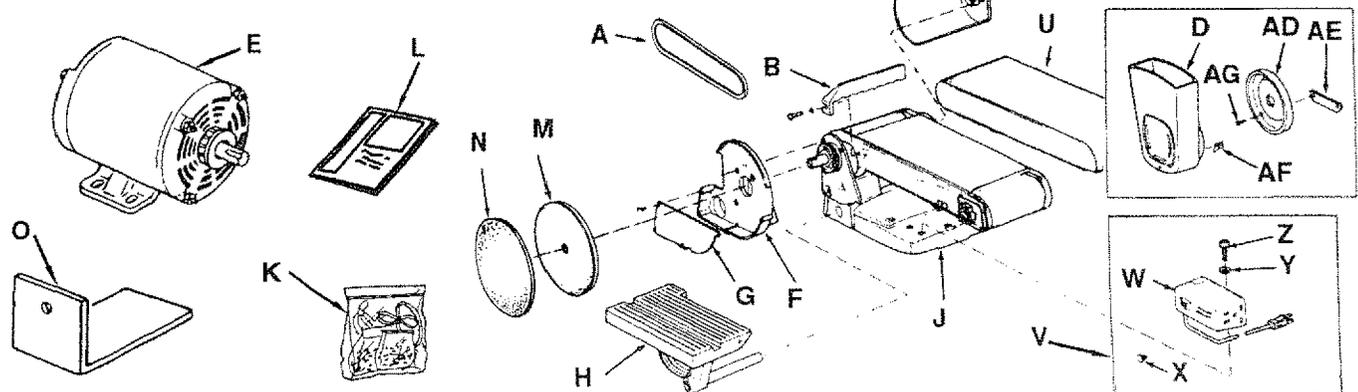
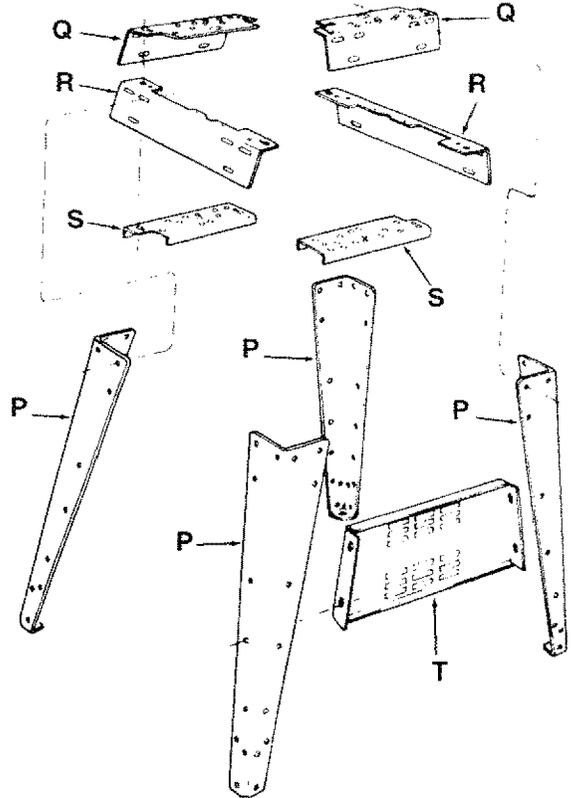
Table of Loose Parts

Item No.	Description	Qty.
A	V-belt, 1/2 x 41"	1
B	Fence	1
C	Dust Trap	1
D	Motor Pulley Belt Guard	1
E	Motor	1
F	Housing Disc	1
G	Cover Housing	1
H	Table, Work	1
J	Base and Table	1
K	Bag of Loose Parts	1
L	Owners Manual	1
M	Disc Sander 9"	1
N	Disc Abrasive	1
O	Bracket Mounting	1
P	Leg	4
Q	Stiffener End	2
R	Stiffener Side	2
S	Channel Support	2
T	Support Motor	1
U	Belt Sanding	1
V	Bag Asm Outlet	1
Containing the following parts:		
W	Bracket Switch Mtg.	1
X	Key Switch	1
Y	Lockwasher 1/4	2
Z	Screw Pan Hd 1/4-20 x 1/2	2
AA	Screw Pan Hd #8 x 3/8	3
Bag of Loose Parts #509122		
AB	Pulley	1
AC	Wrench	1
AD	Support Belt Guard	1
AE	Bracket Support	1
AF	Clip S	1
AG	Screw Pan Hd Ty T 10-32 x 1/2	3
AH	Tie Wire	1
AJ	Bag of Loose Parts	2
Bag of Loose Parts #508419		
AK	ScrewTruss Head 1/4-20 x 1/2	32
AL	Lockwasher Ext 1/4	32
AM	Nut Hex 1/4-20	32
AN	Foot Leveling 3/8	4
AO	Nut Hex 3/8-16	8
AP	Screw Hex Hd 5/16-18 x 2-1/2	2
AQ	Bolt Crge 5/16-18 x 3/4	4
AR	Washer 11/32 x 11/16 x 1/16	6
AS	Lockwasher Ext 5/16	8
AT	Nut Hex 5/16-18	6

Table of Loose Parts

Item No.	Description	Qty.
	Bag of Loose Parts #508182	
AU	Wrench Hex L 5/32	1
AV	Screw Flat Hd 10-32 x 1-3/4	4
AW	Screw Pan Hd Ty T 8-32 x 3/8	5
AX	Washer 21/64 x 7/8 x 1/8	1
AY	Screw Hex Hd 5/16-18 x 1	1
AZ	Screw Pan Hd 10-32 x 9/16	1
BA	Lockwasher #10	1

Loose Parts

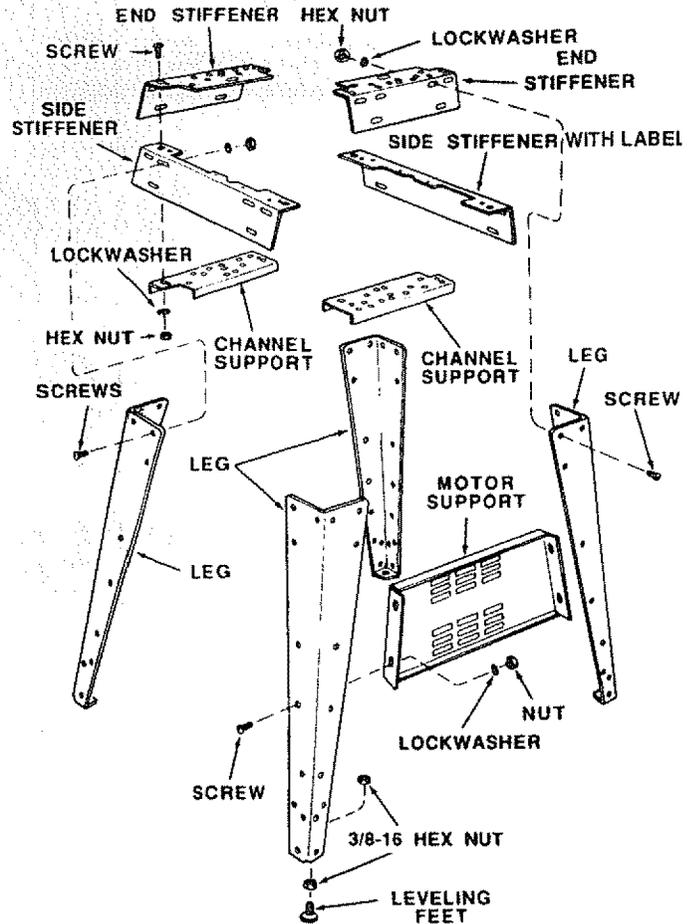


Assembly

Assembling Steel Legs

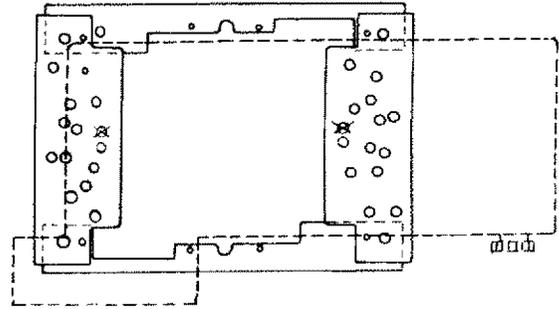
1. Assemble the two (2) end stiffeners and the two (2) side stiffeners using four (4) 1/4-20 truss head screws. The end stiffeners are placed on top of each side stiffener as shown. Insert screws through the 9/32 inch diameter holes and finger tighten 1/4-20 nuts.
2. Attach the four (4) legs to the side and end stiffener using 1/4-20 screws, lockwashers and nuts as shown.
3. Remove the four (4) truss head screws assembled in step 1. Place the two (2) support channels as shown, in position, align holes in supports with holes in the stiffeners, replace lockwashers and nuts.
4. Assemble the motor support to steel legs with 1/4-20 screws and nuts. Motor support can be mounted to either end of stand. Tighten nuts using 7/16" wrench.
5. Install leveling feet as shown. To level leg set, loosen nut on inside of leg and turn nut on outside to raise or lower feet. Adjust all four levelers, and then tighten nuts on inside of legs.

NOTE: These levelers are not intended for height adjustment.

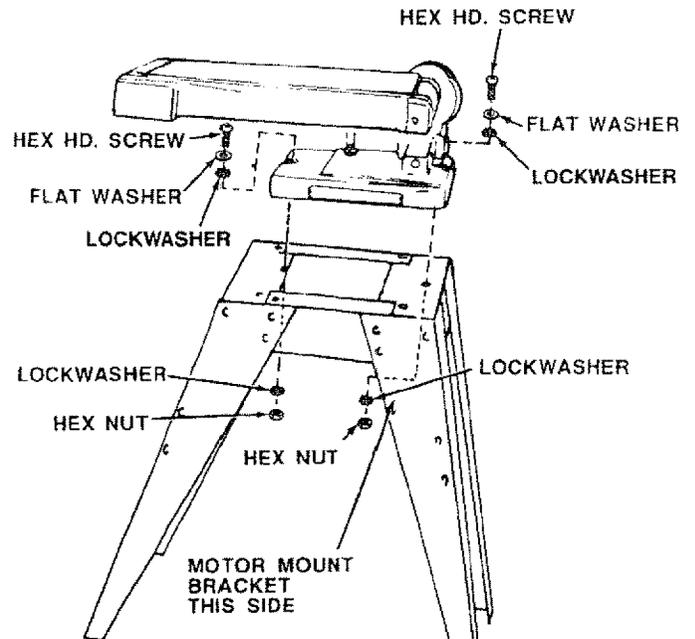


Mounting Belt and Disc Sander On Legset

1. Place the belt and disc sander on steel legs, position as shown, and align the mounting holes in the base of the belt and disc sander with those in the end stiffeners (marked with an 'X' in the illustration).

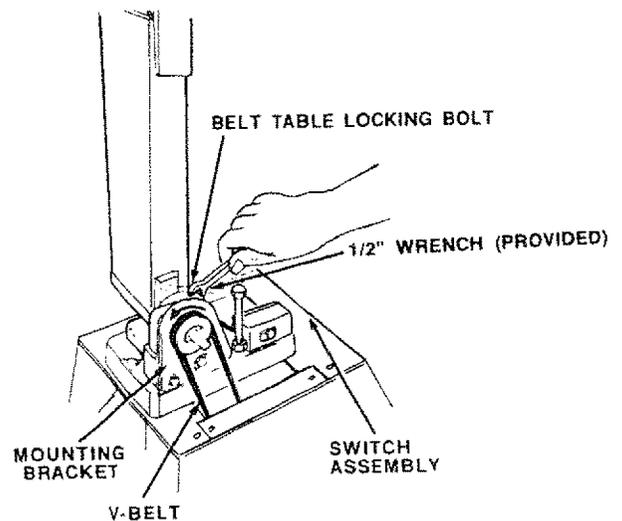


2. Mount the sander base to the end stiffener/channel support. Use two 5/16-18 x 2-1/2" hex head screws, flat washers, (4) external lockwashers, and (2) hex nuts.



Installing V-Belt and Switch

1. Loosen the belt table locking bolts behind the mounting bracket using a 1/2" wrench which is provided in loose parts bag.
2. Position belt table vertically and tighten only one of the bolts.
3. Place the V-belt on the pulley.
4. Attach the switch assembly to the base using the two screws and washers packed with the switch.
5. Loosen the bolt that you tightened in step 2. Position the belt table horizontally, and tighten both bolts.

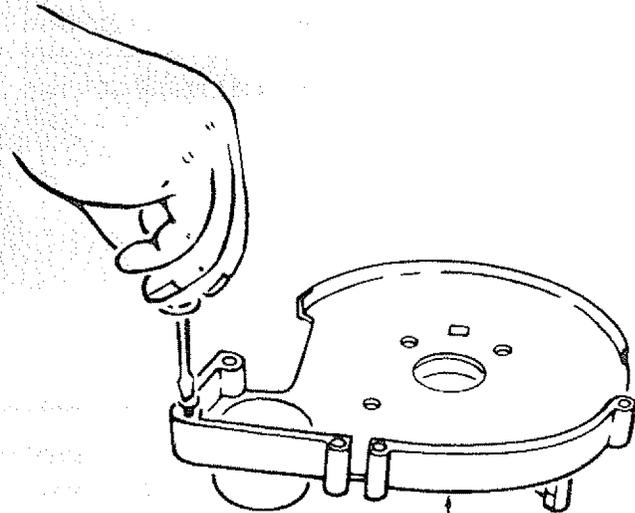
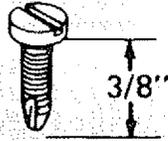


Assembly (continued)

Installing Sanding Disc and Dust Trap

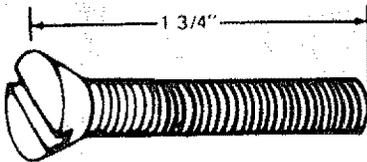
1. Find five 3/8" pan head self-threading screws from among the loose parts.
2. Place disc dust trap on your workbench and screw in five pan head thread cutting screws, 3/8" long. Screw them in all the way.

NOTE: The holes in the trap are not threaded but the screws are "thread cutting screws" and will cut a thread as they are tightened.



DISC DUST TRAP

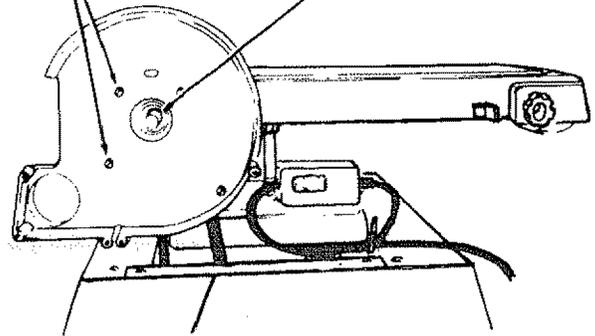
3. Find four flat head machine screw 1-3/4" long from among the loose parts.



4. Attach the disc dust trap with four flat head screws 1-3/4" long.
5. There is a flat spot on the shaft near the end. Rotate the shaft so that the flat spot is facing up.

FLAT HEAD SCREWS
1 3/4" LONG

FLAT SPOT
ON SHAFT



6. Place the disc on the shaft so that the set screw is facing up. Position the disc so that it is approx. 1/16" outward from the edge of the dust trap.
7. Insert the long end of the 5/32" setscrew wrench through the hole in the disc housing and into the set screw in the disc. Make sure set screw is aligned with "flat" on shaft.

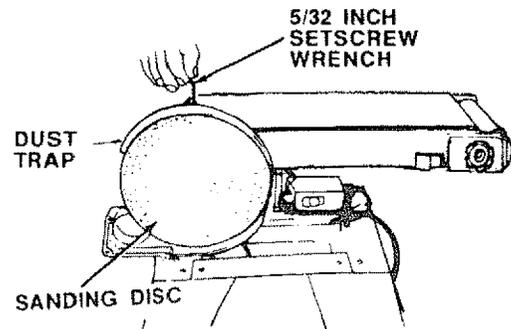
NOTE: After several hours of operation, check for looseness of set screw and retighten.

8. Make certain that the metal disc is free of oil and grease then peel the backing from the 9" abrasive disc and affix to the sanding disc.

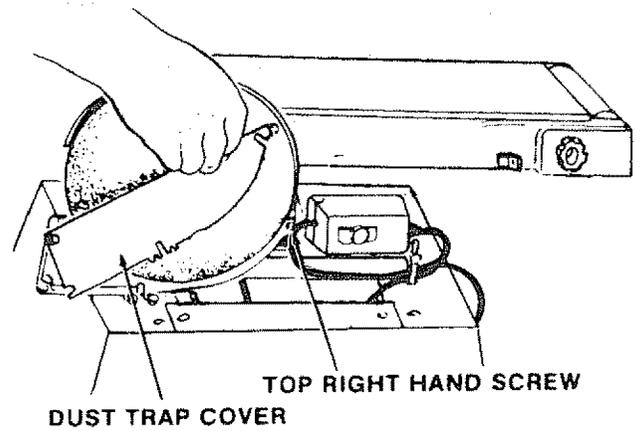
5/32 INCH
SETSCREW
WRENCH

DUST
TRAP

SANDING DISC



9. Remove the top left hand screw that you installed in step 6 and loosen the other four screws.
10. Install the dust trap cover and replace the top left-hand screw. Tighten all five screws.

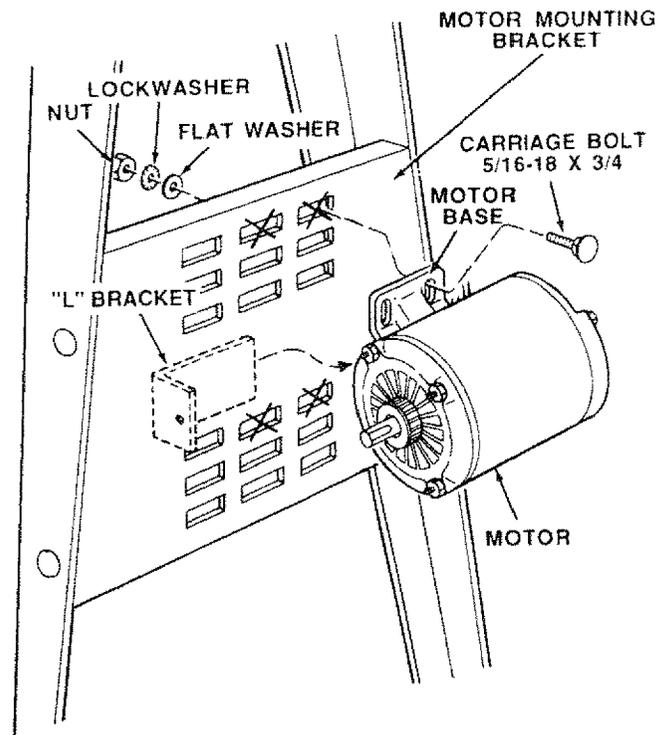


Installing Motor, V-Belt and Belt Guard

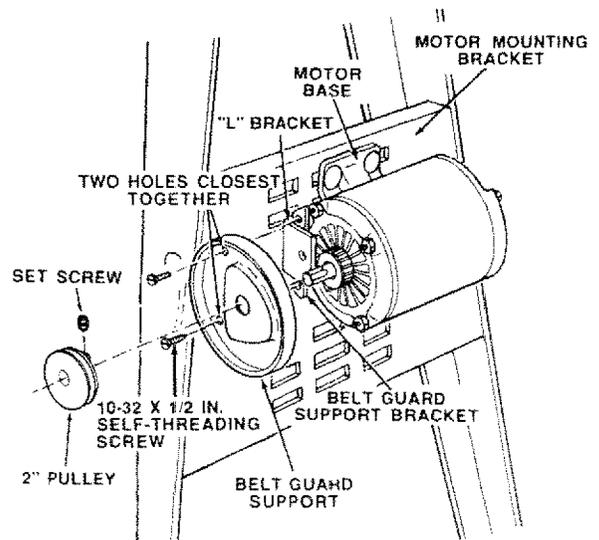
1. Locate the following parts:

Qty.	Description
1	Motor
1	"L" Bracket
1	Pulley (approx. 2" dia.)
1	V-Belt
4	Carriage bolt, 5/16-18 x 3/4
4	Flat Washer, 5/16 I.D.
4	Lockwasher, 5/16 I.D.
4	Hex Nut, 5/16-18
1	Guard Assembly including Guard Support Guard Support Bracket Self-threading Screws Clips

2. Place motor against the motor mounting bracket and insert bolts through holes in motor base and then through holes marked "X" in motor mounting bracket. **Do not tighten bolts at this time.** The "L" bracket, which holds the guard support, must be slid between the motor base and the motor mounting bracket. The motor must be loosely assembled to the bracket at this time.



3. Slide long leg of "L" bracket between motor base and motor mounting bracket. Then sandwich the "L" bracket between the guard support bracket and the guard support and fasten together with self-threading screws as shown.
4. Install the 2" pulley onto the motor shaft flush with the end of the shaft and tighten the set screw in the pulley hub with a 5/32" hex "L" wrench. Tighten against the flat part of the motor shaft.

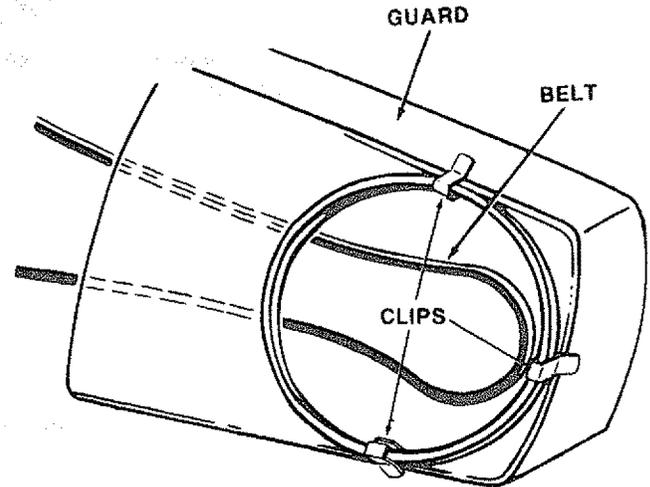


Assembly (continued)

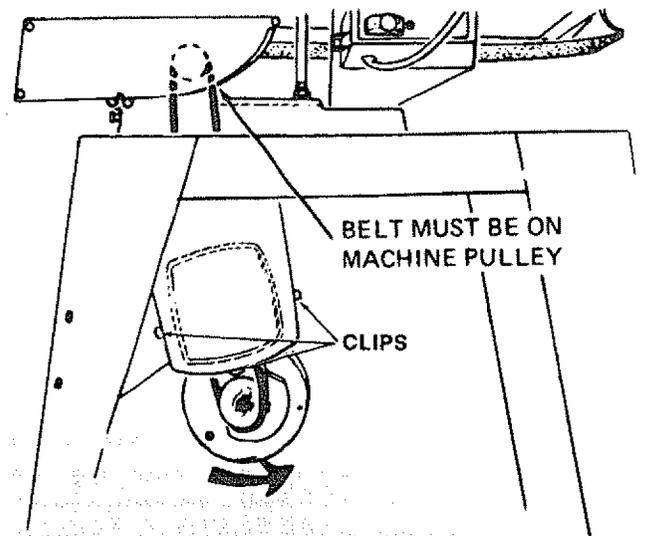
5. Place V-belt over machine pulley and insert the V-belt into the open end of the guard and out the round opening.

Make sure belt has not slipped off machine pulley from step 3. "Disc and Dust Trap Installation".

6. Locate and install three clips on the guard as shown.



7. Place the belt onto the motor pulley by rotating the pulley.
8. Move the motor sideways so that the belt is in the center of the opening in the top of the base. Visually line up the pulleys and V-belt.
9. Wedge "L" bracket under upper leg of motor base (approximately 1/8") while positioning guard support bracket around the shaft.
10. Push downward on motor to apply tension to belt and tighten motor bolt nuts.
11. Check guard support before tightening guard support screws. Guard support must be centered on motor shaft. Tighten screws
12. Push guard into position on guard support.



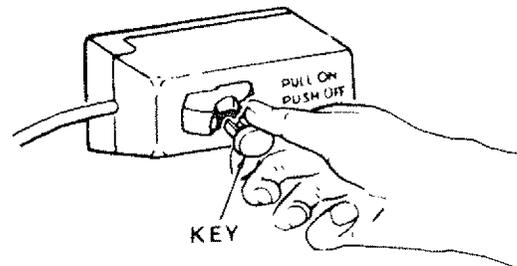
On-OFF Switch

WARNING: Don't connect power cord to electrical outlet in your shop until you are sure motor rotation is correct. See "Check Motor Rotation" section.

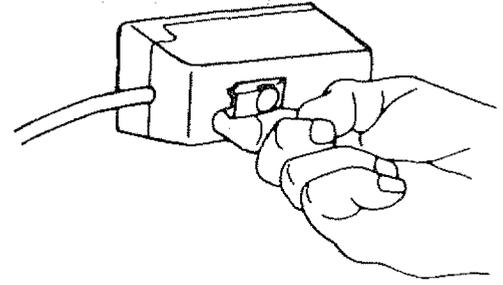
The On-Off switch has a locking feature. This feature is intended to prevent unauthorized and possible hazardous use by children and others.

1. Insert key into switch.

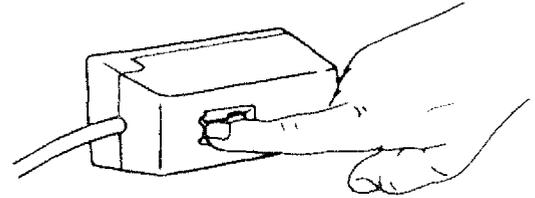
NOTE: Key is made of yellow plastic.



2. To turn machine on, insert finger under switch lever and pull end of switch out.

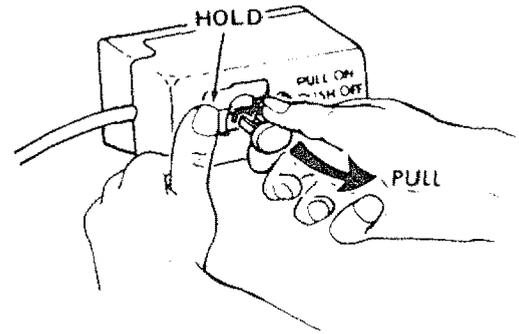


3. To turn machine OFF...PUSH lever in.
Never leave the machine unattended until it has come to complete stop.



4. To lock switch in OFF position...hold switch in with one hand...Remove key with other hand.

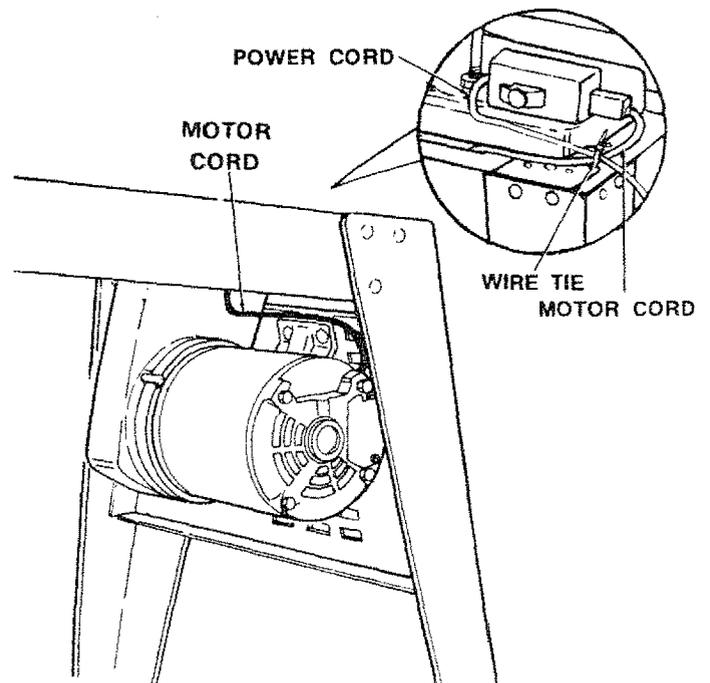
WARNING: For your own safety, always lock the switch, "OFF" when machine is not in use, remove key and keep it in a safe place, also in the event of a power failure (all of your lights go out) turn switch off, lock it and remove the key. This will prevent the machine from starting up again when the power comes back on.



5. Find plastic wire tie from among loose parts.



6. Route the motor cord through the leg set and plug it into the receptacle in the side of the switch box.
7. Bring the power cord under the switch box and attach to leg set with wire tie as shown.
8. Attach wire tie to power cord and motor cord as shown.



Assembly (continued)

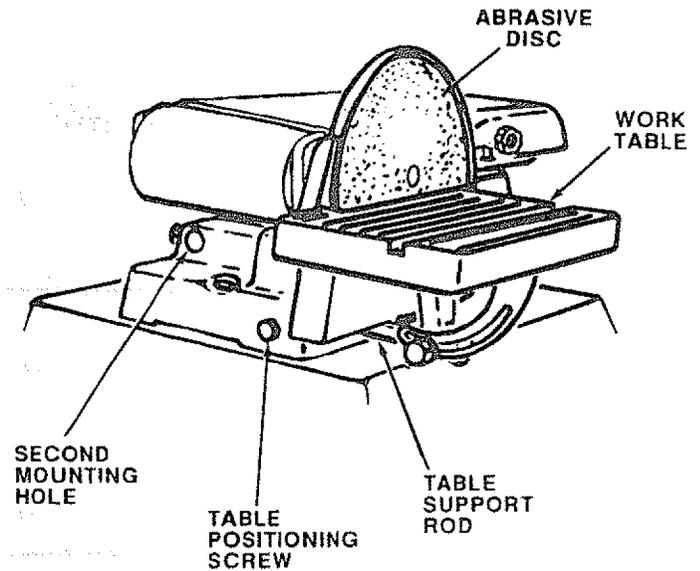
Installing Work Table

NOTE: Apply a coat of paste wax to the work table. This will make it a little easier to feed the work.

1. Loosen the table positioning screw.
2. Insert the table support rod in the hole in the base until the edge of the table is approximately 1/16" from the abrasive disc. Tighten the screw.

NOTE: There is a second mounting hole in the base. This is for mounting the table when the belt is used in a vertical position.

WARNING: To avoid trapping the work on fingers between the table and sanding surface, the table edge should be a maximum 1/16 inch from the sanding surface, the table should be completely engaged on the rod.



Installing the Abrasive Belt - Tensioning and Tracking

WARNING: To avoid injury from accidental start, turn switch "OFF", remove key and remove plug from power source outlet before removing or installing abrasive belt.

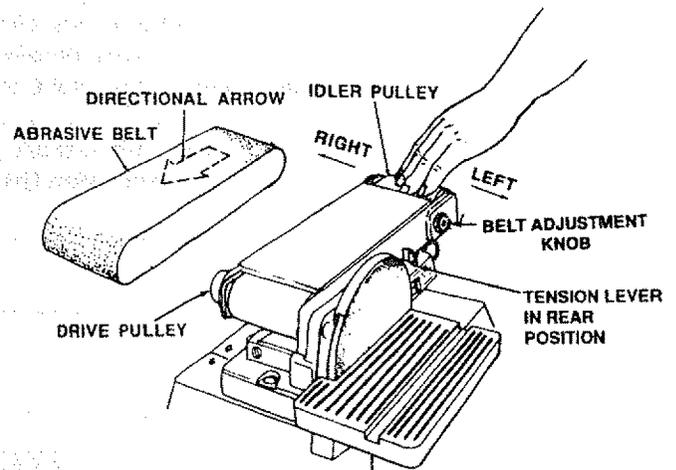
NOTE: Two types of belts may be used.

On the smooth side of the abrasive belt you will see a "directional arrow."

Lap Splice: The abrasive belt must run in direction of this arrow so that the splice does not come apart.

Butt Splice: The arrow points in both directions or identifies no arrows, this indicates the user may position the belt in either direction.

1. Push tension lever to rear position.
2. Turn belt adjustment knob counterclockwise.
3. Apply light pressure to the idler pulley so the pulley moves to right.
4. Place the abrasive belt over the idler and drive pulleys with the directional arrow pointing as shown. Make sure the abrasive belt is centered on both pulleys.
5. Position tension lever in forward position. When the idler pulley is moved outward, it puts tension on the belt.
6. Standing to the side of the machine, push the belt by hand to check if belt is moving either left or right.



7. If the abrasive belt moves to the right:

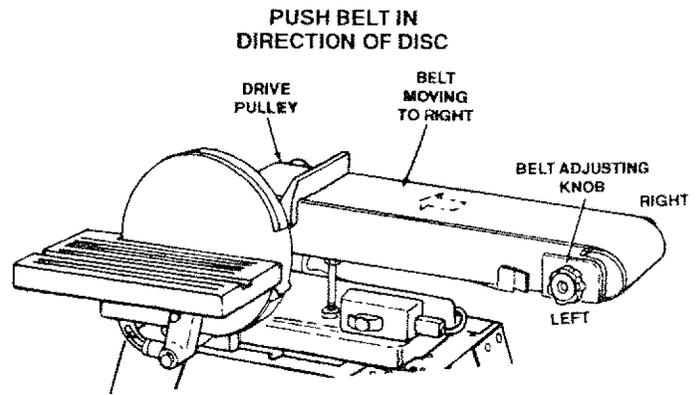
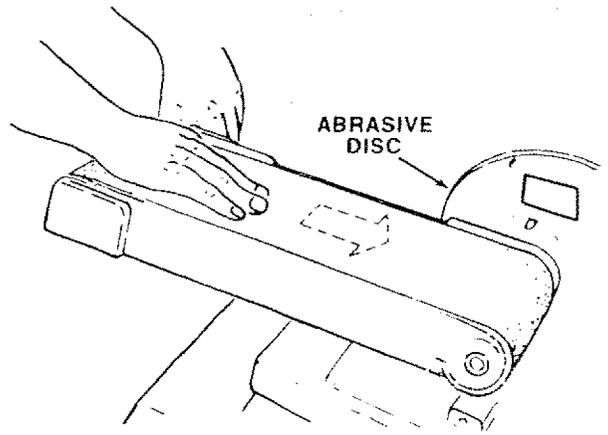
- a. Turn the belt adjustment knob clockwise slightly, until the belt recenters itself.
- b. The abrasive belt is tracking properly when it is centered on the drive pulley.

8. If the abrasive belt moves to the left:

- a. Turn the belt adjustment knob counterclockwise slightly until the belt recenters itself.
- b. The abrasive belt is tracking properly when it is centered on the drive pulley.

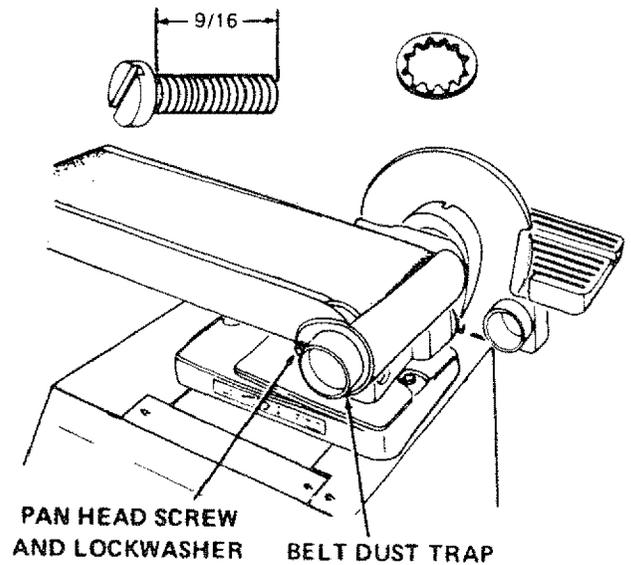
9. Turn machine on and off several times to observe tracking. Repeat steps 7 and 8 as needed.

10. Turn machine on and adjust tracking, if needed, by turning the belt adjusting knob slightly.



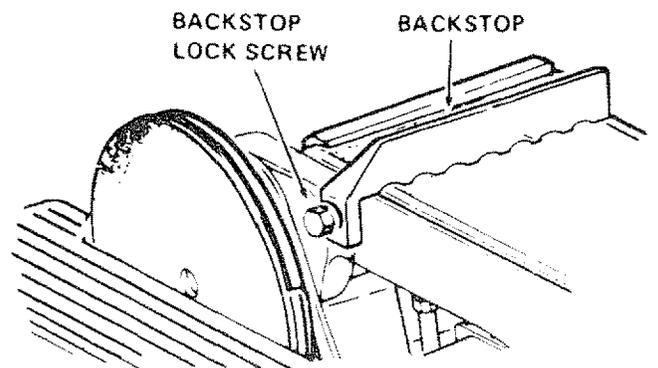
Installing Belt Dust Trap

- 1. Find one 10-32 x 9/16" pan head screw and a lock-washer among the loose parts.
- 2. Attach the dust trap. Make sure the top edge is below the surface of the abrasive belt.



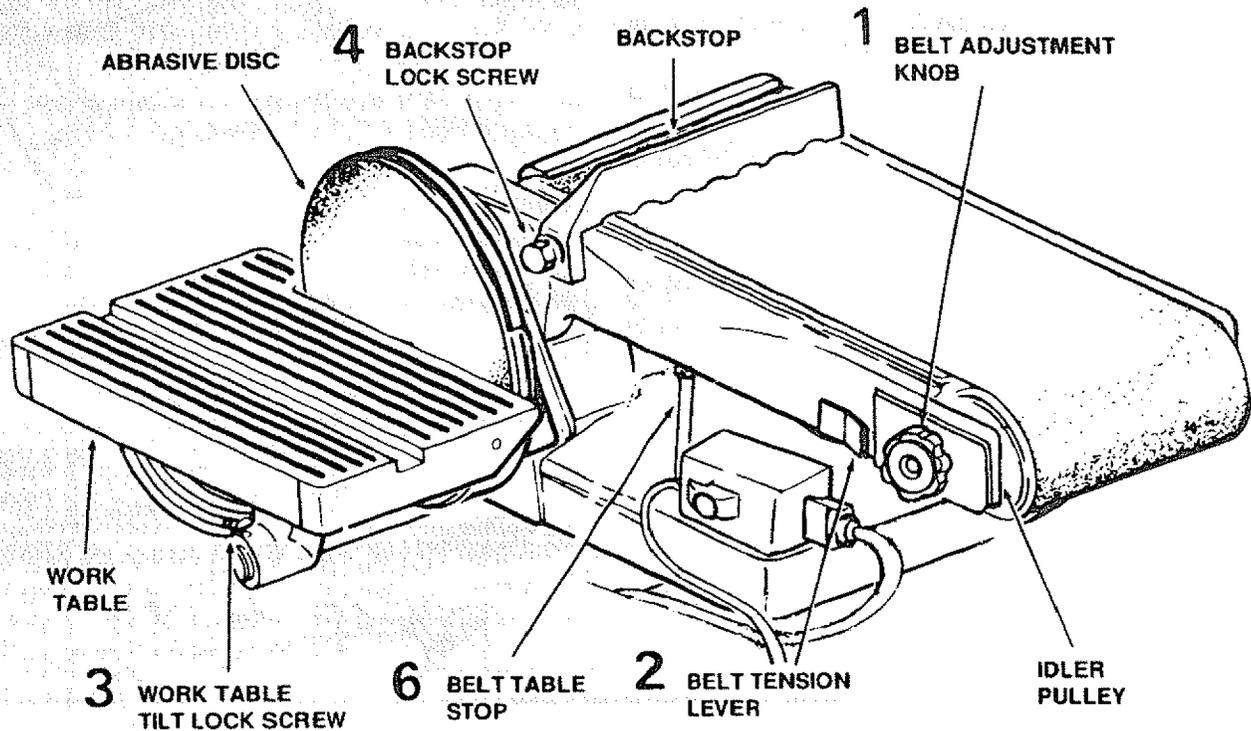
Installing Backstop

- 1. Find one 5/16 x 1" hex head bolt and one flat washer among the loose parts.
- 2. Place the washer on the bolt, and screw it halfway into the mounting hole. Place the backstop into position and tighten the bolt. When removing the backstop, loosen the bolt but do not remove it.

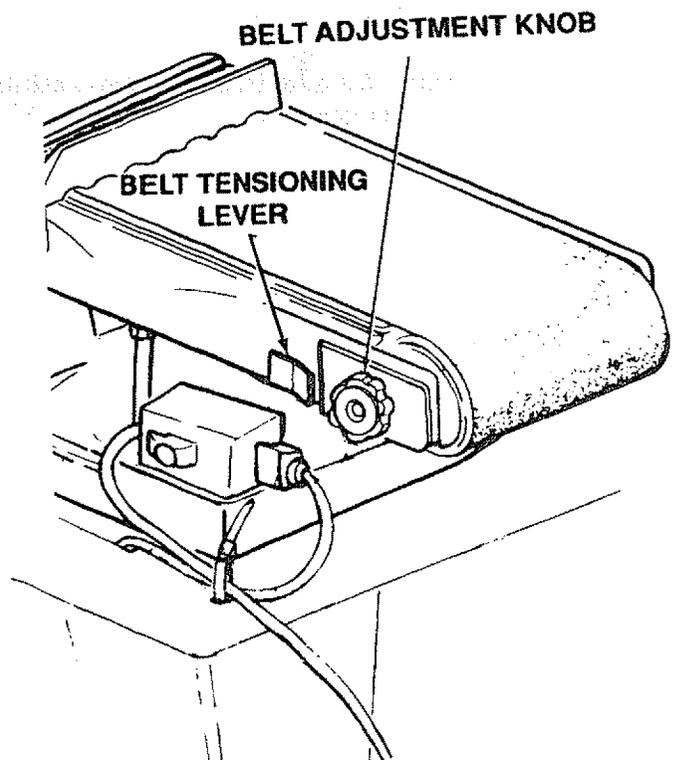


Getting to Know Your Belt and Disc Sander

WARNING: To avoid injury from accidental start, turn switch "OFF" and remove plug from power source outlet before making any adjustments.



- 1. Abrasive Belt Adjustment Knob.** Causes the idler pulley to move in or out for tracking adjustment.
 - 2. Abrasive Belt Tension Lever.** Causes the idler pulley to move backward and forward for adjustment of the belt tension.
- See "Assembly" section - "Installing Abrasive Belt"



3. Work Table Tilt Lock Screw. Locks the table. It is locked using the 1/2" wrench supplied.

a. Using a combination square, check the angle of the table with the disc.

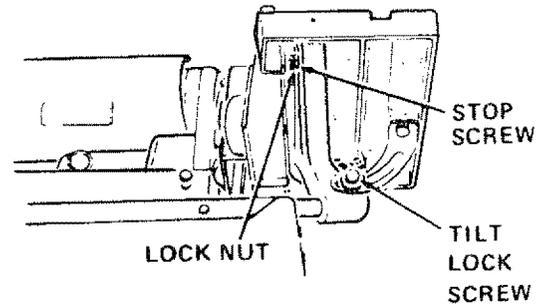
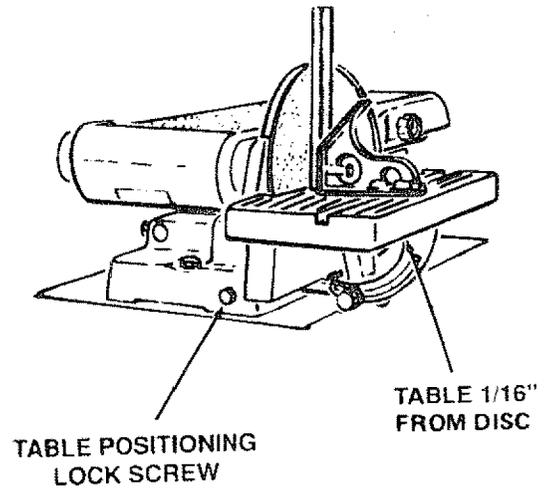
NOTE: The combination square must be "true". See start of "Assembly" section on for check method.

b. If the table is not 90° to the disc...loosen tilt lock screw and tilt table.

c. Loosen the lock nut using a 7/16" wrench.

d. Screw the stop screw in or out, using a 3/8" wrench so that when the table touches the top screw, the table is 90° to the disc.

e. Tighten the lock nut.



f. Loosen the table positioning lock screw...position the table approximately 1/16" away from the abrasive disc.

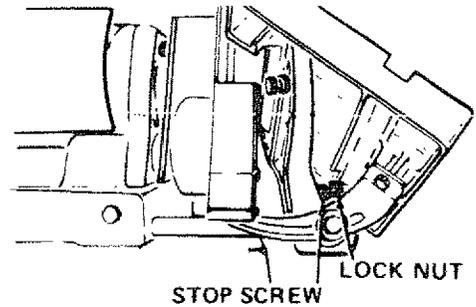
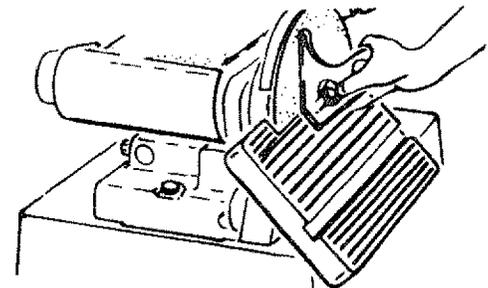
g. Tilt the table downward but don't tighten the lock screw, and position it as close to the disc as possible. Using the head of a combination square, check the angle of the table with the disc.

h. If the table is not 45° with the disc:

i. Raise the table and loosen the lock nut using a 7/16" wrench.

j. Screw the stop screw in or out, using a 3/8" wrench so that when the table touches it, it is 45° with the disc.

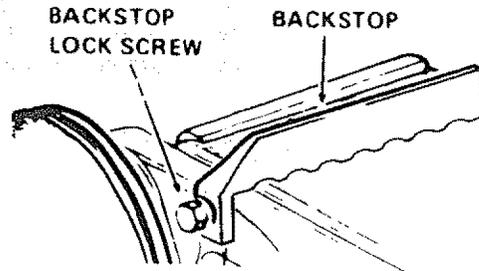
k. Tighten the lock nut.



WARNING: To avoid trapping the work or fingers between the table and sanding surface, the table must be repositioned on the rod to maintain a maximum 1/16 inch space between the table and sanding surface.

Getting to Know Your Belt and Disc Sander (continued)

4. **Backstop Lock Screw.** Locks the backstop in place. It is locked using the 1/2" wrench supplied.



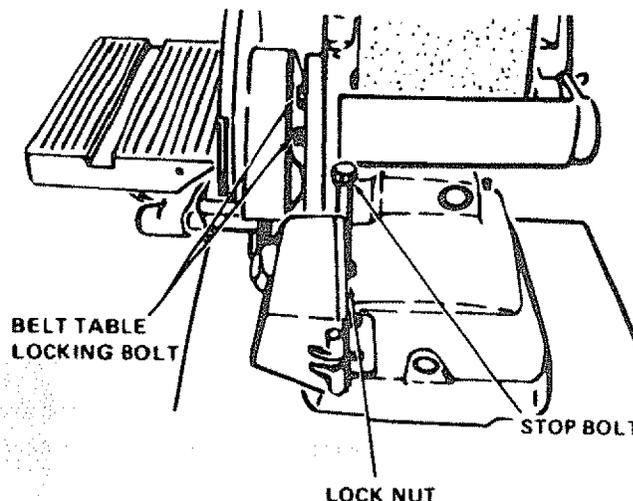
5. **Belt Table Locking Bolts.** Lock the belt table in position.

To adjust to vertical position:

- Remove the backstop.
- Loosen the two belt table locking bolts using the 1/2" wrench, supplied with your machine.
- Position belt table vertically and tighten the two bolts.

6. **Abrasive Belt Table Stop.** Can be adjusted so that the abrasive belt table is level when in a horizontal position.

- Loosen the lock nut using a 3/4" wrench.
- Place a level on the abrasive belt table and using a 3/4" wrench, screw the stop bolt in or out until the table is level.



Safety Instructions for Belt and Disc Sander

Before Using the Sander:

WARNING: To avoid mistakes that could cause serious, permanent injury, do not plug the sander in until the following steps are completed.

- Completely assemble the sander. See "Assembly" section.
- Learn the use and function of the ON-OFF switch. See "Getting to Know Your Belt and Disc Sander" section.
- Review and understanding of all safety instructions and operating procedures in this manual.
- Review of the maintenance methods for this sander. See "Maintenance" section.

When Installing Or Moving the Sander:

Avoid dangerous environment. Use the sander in a dry, indoor place protected from rain. Keep work area well lighted. Place the sander so neither the user or bystanders are forced to stand in line with the abrasive belt or disc.

To avoid burns or other fire damage, never use the sander near flammable liquids, vapors or gasses.

To avoid injury or death from electrical shock:

- Ground the sander. This sander has an approved 3-

conductor cord and a 3-prong grounding type plug. Use only 3-wire, grounded outlets rated 120 volts, 15 amperes (amps). The green conductor in the cord is the grounding wire. To avoid electrocution, **Never** connect the green wire to a live terminal.

- Make sure your fingers do not touch the plug's metal prongs when plugging or unplugging the sander.
- Never use this or any power sander for wet sanding. Doing so could cause electrocution, serious injury or worse.

To avoid injury from unexpected sander movement:

- Always unplug the sander before moving it.
- Put the sander on a firm level surface where there is plenty of room for handling and properly supporting the workpiece.
- Support the sander so it does not rock.
- Bolt the sander to its work surface. Use the fasteners and method shown in "Assembly" section.
- **Never stand on tool.** Serious injury could occur if the tool tips. Do not store anything above or near the tool where anyone might stand on the tool to reach them.

To Avoid Back Injury

- Get help or use recommended casters when you need to move the sander
- Always get help if you need to lift the sander.

Before Each Use:

Inspect your sander. Check for:

- alignment of moving parts,
- binding of moving parts,
- broken or damaged parts,
- worn or damaged electric cords,
- stable mounting
- any other condition that may affect the way the sander works.

If any part is missing, bent, or broken in any way, or any electrical parts don't work properly, turn the sander off and unplug the sander. Replace damaged, missing, or failed parts before using the sander again.

Disconnect the sander to avoid injury from accidental starting. Turn the switch off, unplug the sander and remove the switch key before changing the setup or sanding belt and disc.

Maintain tools with care. Keep the sander clean for the best and safest performance.

Remove wrenches from tool before turning on.

To avoid injury from jams, slips or thrown pieces:

- **Use only recommended accessories.** Consult this owner's manual for recommended accessories. The use of improper accessories may cause injury. See "Accessory" section.
- **Adjust any work support** to clear the sanding surface by no more than 1/16 of an inch. When checking clearance between the belt and work support, press the belt flat against the metal beneath it.
- **Make sure all clamps and locks are tight** and no parts have excessive play.
- **Keep work area clean.** Cluttered areas and benches invite accidents. Floor must not be slippery.

Plan Ahead to Protect Your Eyes, Hands, Face and Ears:

Dress for Safety:

- Wear nonslip footwear.
- Tie back long hair.
- Roll long sleeves above the elbow.
- Noise levels vary widely. To avoid possible hearing damage, wear ear plugs or muffs when using sander for hours at a time.
- Sanding operations are usually dusty. Wear a dust mask along with the safety goggles.
- Do not wear loose clothing, gloves, neckties or jewelry (rings, wrist watches). They can get caught and draw you into moving parts.
- **Wear safety goggles.** Any power sander can throw foreign objects into the eyes. This can cause permanent eye damage. Wear safety goggles (not glasses) that comply with ANSI Z87.1 (shown on package). Everyday eyeglasses have only impact resistant lenses. They are not safety glasses. Safety goggles are available at area stores. Glasses or goggles not in compliance with ANSI Z87.1 could seriously hurt you when they break.

Know your sander. Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

To avoid injury from accidental contact with moving parts:

- Keep guards in place and in working order.
- Don't do layout, assembly, or setup work on the sander while any parts are moving.

Avoid accidental starting. Make sure switch is "OFF" before plugging sander into a power outlet.

Plan your work. Think through how you will hold and maneuver the workpiece from start to finish.

Use the right tool. Don't force tool or attachment to do a job it was not designed to do.

Inspect your workpiece make sure there are no nails or foreign objects in the part of the workpiece to be sanded.

Plan the way you will hold the workpiece from start to finish. Avoid awkward operations and hand positions where a sudden slip could cause finger or hand to move into a sanding surface. Keep fingers away from where the bolt goes into the dust trap.

Don't overreach. Keep good footing and balance.

Keep your face and body to one side, out of line with a possible throwback.

Basic Sander Operation

Plan your work to avoid **THROWBACKS** - when the workpiece catches on the sanding belt or disc and is torn from your hands.

- Make sure there is no debris between the workpiece and its supports.
- When sanding irregularly shaped workpieces, plan your work support so it will not slip and be pulled from your hands.
- Use extra caution with large, very small or awkward workpieces.
- Never use this tool to finish pieces too small to hold by hand.
- Use extra supports (tables, saw horses, blocks, etc.) for any workpieces large enough to tip when not held down to the table top.
- Never use another person as a substitute for a table extension, or as additional support for a workpiece that is longer or wider than the basic sander table, or to help feed, support or pull the workpiece.
- Clear everything except the workpiece and related support devices off the table before turning the sander on.
- When finishing on the disc, always press the workpiece against the "Down" side of the disc. Sanding against the side coming up from under the table could damage the work by making it "chatter", or tear the work from your hands and throw it.
- Sand only one workpiece at a time.

WARNING: Don't let familiarity (gained from frequent use of your belt and disc sander) cause a careless mistake. A careless fraction of a second is enough to cause a severe injury.

Precautions to Take When Sanding Metals

When finishing metals, sparks or hot fragments could cause a fire. To avoid this:

1. Disconnect any dust collecting hose from the sander.

Whenever Sander is Running:

Before starting your work, watch the sander while it runs. If it makes an unfamiliar noise or vibrates a lot, stop immediately. Turn the sander off. Unplug the sander. Do not restart until finding and correcting the problem.

Make sure the sanding disc turns counterclockwise, before using the sander.

Keep children away. Keep all visitors a safe distance from the sander. Make sure bystanders are clear of the sander and workpiece.

Don't force tool. It will do the job better and safer at its designed rate. Press the workpiece against the sanding material only hard enough to let it sand without bogging down or binding.

Before freeing any jammed material:

- Turn switch "OFF".
- Wait for all moving parts to stop.
- Unplug the sander.

Before Leaving the Sander:

Turn power off. Don't leave tool until it comes to a complete stop.

Never leave tool running unattended.

Make workshop child-proof. Lock the shop. Disconnect master switches. Remove the yellow switch key. Store it away from children and others not qualified to use the tool.

Precautions to Take When Sanding Paint

Sanding of lead based paint is not recommended. It is very difficult to control the contaminated dust that could cause lead poisoning.

It is also difficult to identify whether or not paint contains lead. Therefore, we recommend the following precautions when sanding **all** paints:

1. Protect your lungs. Wear a dust mask or respirator at all times. Wear only dust masks that are suitable for working in lead paint sanding environments. Ordinary painting masks do not offer this protection.
2. Do not allow children or pregnant women to enter the work area until paint sanding job is finished and all clean up completed.

2. Remove all traces of wood dust from inside the sander before sanding metals.

3. Remove all traces of metal dust from inside the sander before sanding wood again.

3. To prevent ingesting contaminated paint particles: Do not eat, drink, or smoke in a work area where paint is being sanded. After sanding paint, wash and clean up before eating, drinking or smoking. Do not leave food, drinks, or tobacco products in the work area where dust can settle on them.
4. Protect the environment when sanding paint. Use a dust collection system if possible. Seal the work area with plastic if necessary. Do not track paint dust outside the work area.
5. Thoroughly clean the work area upon completion of paint sanding project. If project lasts for an extended amount of time, clean work area often. Items such as sanding dust, vacuum filter bags, plastic drop cloths, etc. should be placed in a sealed container and disposed of properly. Clean all items exposed to sanding dust.

Surface Finishing on the Abrasive Belt

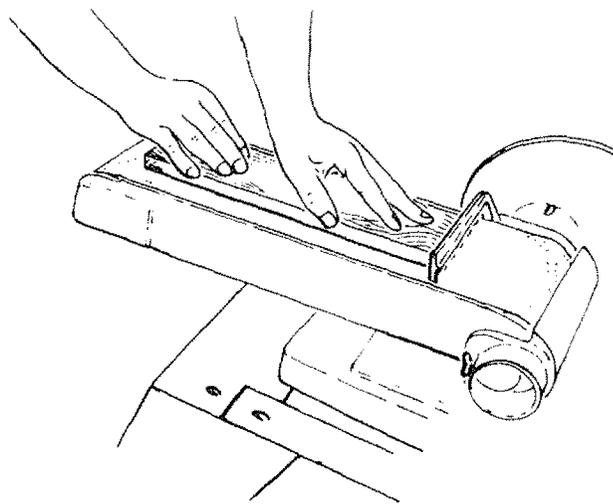
Flat surfaces

Hold the workpiece firmly with both hands, keeping fingers away from the abrasive belt.

Keep the end butted against the backstop and move the work evenly across the abrasive belt. Use extra caution when finishing very thin pieces.

For finishing long pieces, remove the backstop.

Apply only enough pressure to allow the abrasive belt to remove material. If the abrasive belt stalls and the belt pulleys slip, too, much pressure is being applied to the workpiece



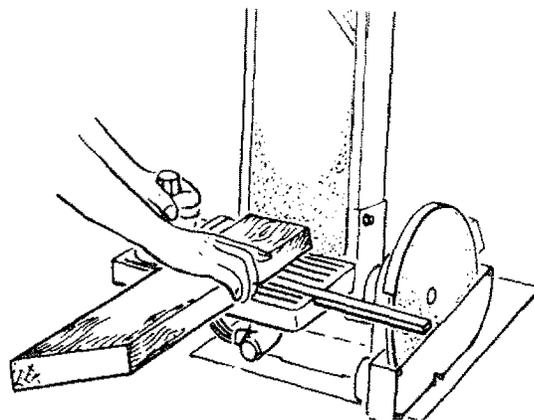
End Finishing on the Abrasive Belt

It is more convenient to finish the ends of long workpieces with the abrasive belt in a vertical position.

Move the work evenly across the abrasive belt. For accuracy, use a miter gauge.

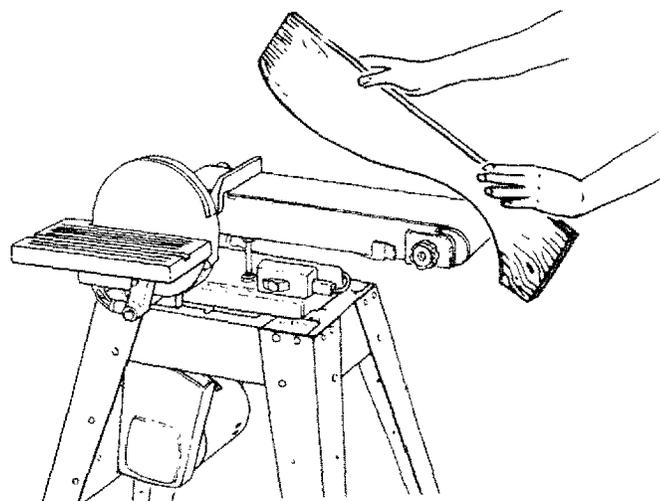
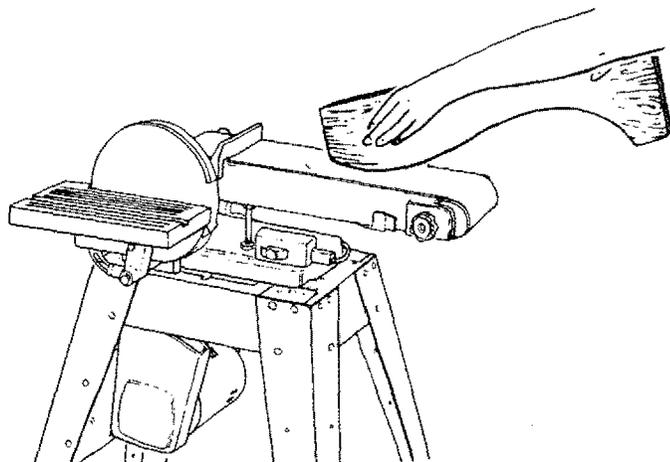
The table may be tilted for beveled work.

See "Getting to Know Your Belt and Disc Sander" section for adjusting the abrasive belt table and work table.



Finishing Curved Edges on the Abrasive Belt

Finish outside curves on the abrasive belt and inside curves on the idler pulley.



Basic Sander Operation (continued)

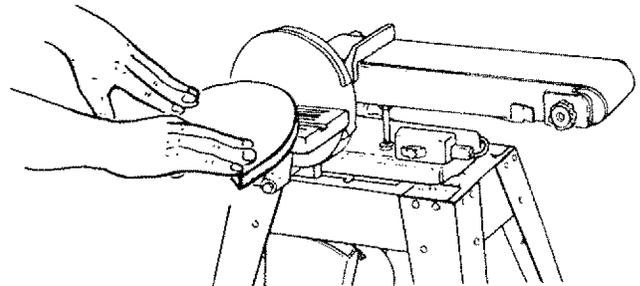
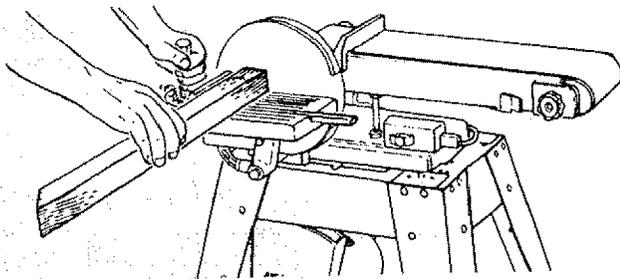
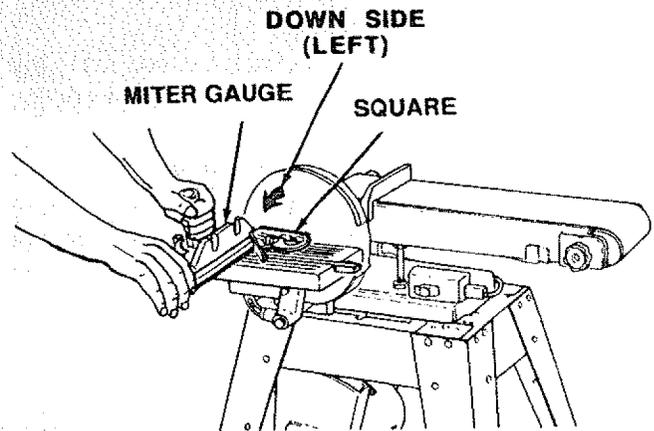
Finishing Small End Surfaces and Curved Edges on the Abrasive Disc

Move the work across the "Down Side" of the face of the abrasive disc. For accuracy, use a miter gauge.

NOTE: Use a combination square to square the miter gauge to the face of the disc. If it is not square, pull out the index pin, loosen the miter gauge knob and move the miter gauge, tighten the knob securely.

The table may be tilted for beveled work

WARNING: Applying the workpiece to the "Up Side" of the disc first could cause workpiece to fly up (kickback) and result in an injury.



Maintenance

Maintenance

WARNING: For your own safety, turn switch "OFF" and remove plug from power source outlet before adjusting, maintaining, or lubricating your belt and disc sander.

Keep your machine and your workshop clean. The dust traps around the abrasive disc and the abrasive belt are designed to deflect most of the fine dust. They should be connected to a vac for most efficient dust removal.

WARNING: To avoid electrocution or fire, any repairs to electrical systems should be done only by qualified service technicians. Unit must be reassembled exactly to factory specifications.

If powercord is worn or cut, or damaged in any way, have it replaced immediately.

Frequently blow out or vacuum out any dust that may accumulate inside the motor.

A coat of automobile-type wax applied to the worktable will make it easier to feed the work while finishing.

Do not apply wax to the abrasive belt table because the belt could pick up the wax and deposit it on the pulleys, causing the belt to slip.

Motor Maintenance and Lubrication

1. The bearings, in both end shields of the motor, have been lubricated at the factory with correct lubricant. No other part of the motor requires lubrication.
2. Re-lubricate motor bearings following the instructions on the nameplate. Be sure to wipe off dirt or grit if present around oil hole caps to prevent any possibility of foreign material contaminating the oil wicks that supply the bearings with oil. Use a good grade of medium weight mineral oil, such as automobile engine oil SAE 20.
3. If disassembly of the motor is necessary, it should be returned to your nearest Sears retail store in order to prevent voiding the guarantee.
NOTE: The speed of this motor cannot be regulated or changed.
4. Every effort should be made to prevent foreign material from entering the motor. When operated under conditions likely to permit accumulations of dust, dirt, or waste within the motor, a visual inspection should be made at frequent intervals. Accumulations of dry dust can usually be blown out successfully.

NOTE: Motors used on wood-working tools are particularly susceptible to the accumulation of sawdust and wood chips and should be blown out or "vacuumed" frequently to prevent interference with normal motor ventilation and proper operation of the centrifugally-operated starting switch.

Lubrication

The ball bearings in this machine are packed with grease at the factory. They require no further lubrication.

Recommended Accessories

Sears Recommends the following accessories:

Item	Cat. No.
Caster Set	9-22222, 9-22221
Miter Gauge	9-29929
Pressure-Sensitive Cement	See Catalog
Abrasive Belts and Discs	See Catalog
Steel Legs	9-22236
Power Tool Know How Handbook	9-29117

Do not use any accessory unless you have received and read complete instructions for its use.

See your nearest Sears store for other accessories.

WARNING: Use only accessories recommended for this sander. Using other accessories may be dangerous.

Troubleshooting

Motor

WARNING: For your own safety, turn switch "OFF" and remove plug from power source outlet before troubleshooting your sander.

NOTE: Motors used on wood-working tools are particularly susceptible to the accumulation of sawdust and wood chips and should be blown out or "vacuumed" frequently to prevent interference with normal motor ventilation and proper operation of the starting switch.

Trouble	Probable Cause	Remedy
Excessive Noise	1. Motor	1. Have motor checked by qualified service technician. Repair service is available at your nearest Sears retail store.
Motor failed to develop full power. NOTE: Low Voltage: (Power output of motor decreases rapidly with decrease in voltage at motor terminals. For example, a reduction of 10% in voltage causes a reduction of 19% in maximum power output of which the motor is capable, and a reduction of 20% in voltage causes a reduction of 36% in maximum power output.)	1. Circuit overloaded with lights. 2. Undersize wires or circuit too long. 3. General overloading of power company facilities.	1. Do not use other appliances or motors on same circuit when using the saw. 2. Increase wire sizes, or reduce length of wiring. See "Electrical Requirements" section. 3. Request a voltage check from the power company.
Motor starts slowly or fails to come to full speed	1. Low voltage. 2. Windings burned out or open. 3. Starting switch not operating.	1. Request voltage check from power company. 2. Have motor repaired or replaced. 3. Have switch replaced.
Motor overheats	1. Motor overloaded. 2. Improper cooling. (Air circulation restricted through motor due to sawdust, accumulating.	1. Feed work slower into belt or disc. 2. Clean out sawdust to provide normal air circulation through motor. See "Maintenance" section.

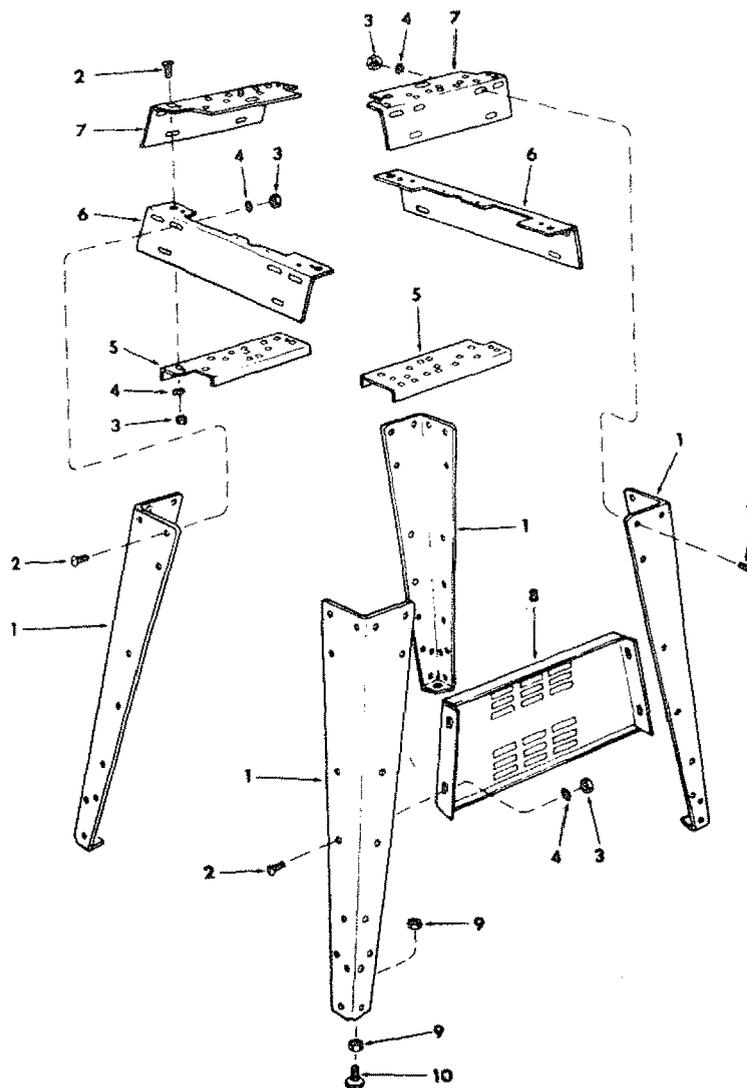
Troubleshooting (continued)

Trouble	Probable Cause	Remedy
Starting switch in motor will not operate.	<ol style="list-style-type: none"> 1. Burned switch contacts (due to extended hold-in periods caused by low line voltage, etc.) 2. Shorted capacitor. 3. Loose or broken connections. 	<ol style="list-style-type: none"> 1. Have switch replaced and request a voltage check from the power company. 2. Have capacitor tested and replace if defective. 3. Have wiring checked and repaired.
Motor stalls (resulting in blown fuses or tripped circuit breakers)	<ol style="list-style-type: none"> 1. Starting switch not operating. 2. Voltage too low to permit motor to reach operating speed. 3. Fuses or circuit breakers do not have sufficient capacity. 	<ol style="list-style-type: none"> 1. Have switch replaced. 2. Request voltage check from the power company. 3. Install proper size fuses or circuit breakers.
Frequent opening of fuses or circuit	<ol style="list-style-type: none"> 1. Motor overloaded. 2. Fuses or circuit breakers do not have sufficient capacity. 3. Starting switch not operating (motor does not reach speed) 	<ol style="list-style-type: none"> 1. Feed work slower into belt or disc. 2. Install proper size fuses or circuit breakers. 3. Have switch replaced.
Motor will not run	<ol style="list-style-type: none"> 1. Defective On-Off switch. Defective switch cord. Defective switch box. 2. Burned out motor. 	<ol style="list-style-type: none"> 1. Replace defective parts before using belt and disc sander again. 2. Consult Sears Service. Any attempt to repair this motor may create a hazard unless repair service is done by a qualified service technician. Repair service is available at your nearest Sears retail store.
Machine slows down when sanding	<ol style="list-style-type: none"> 1. Timing belt too tight. 2. Applying too much pressure to workpiece 	<ol style="list-style-type: none"> 1. Decrease belt tension, see "Maintenance" section, "Removing Pulley Cover and Installing Timing Belt." 2. Ease up on pressure.
Abrasive belt runs off pulleys	<ol style="list-style-type: none"> 1. Not tracking properly. 	<ol style="list-style-type: none"> 1. Adjust tracking, See "Assembly" section, "Installing the abrasive Belt - Tensioning and Tracking".
Wood burns while sanding	<ol style="list-style-type: none"> 1. abrasive disc or belt is glazed with sap. 	<ol style="list-style-type: none"> 1. Replace disc or belt.

Parts List for Craftsman Belt and Disc Sander Model 113.225941

Always order by Part Number—Not by Key Number

Figure 1



Key No.	Part No.	Description
1	820040	Leg
2	60314	† Screw, Truss Hd. 1/4-20 x 1/2
3	STD541025	*† Nut, Hex 1/4-20
4	STD551225	*† Lockwasher, 1/4 External
5	68060	Channel, Support
6	68059	Stiffener, Side
7	62615	Stiffener, End
8	68061	Support, Motor
9	STD541237	*† Nut, Hex 3/8-16
10	803835-1	† Foot, Leveling
11	508419	Bag of Loose Parts (Not Ills.)

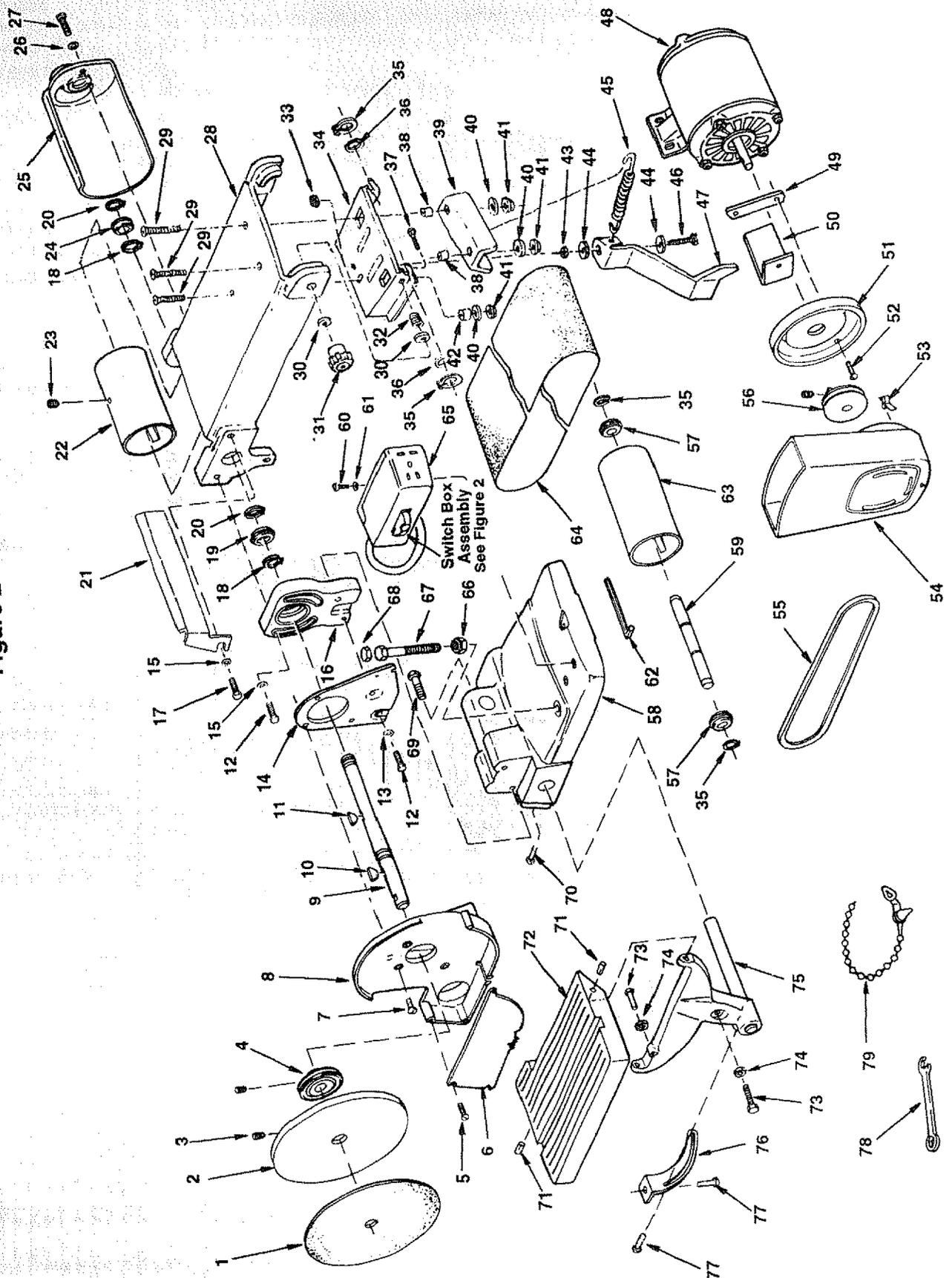
Key No.	Part No.	Description
Hardware for mounting tool & motor		
—	STD523125	*† Screw, Hex Hd. 5/16-2-1/2
—	STD551131	*† Lockwasher, External 5/16
—	STD541231	*† Nut, Hex Jam 5/16 x 18
—	STD551031	*† Washer, 11/32 x 11/16 x 1/16
—	STD532507	*† Bolt, Carriage 5/16-1/ x 3/4

† These items all contained in Loose Parts Bag, Part No. 508419

* Standard Hardware Item - May be purchased locally

Repair Parts (continued)

Craftsman Belt and Disc Sander
Model 113.225941
Figure 2



Parts List for Craftsman Belt and Disc Sander - Model 113.225941

Always order by Part Number—Not by Key Number

Figure 2

Key No.	Part No.	Description
1	9-28320	† Disc, 9 Inch Abrasive
2	68033	Disc, Sanding (w/Set Screw)
3	STD503103	* Screw, Socket Head Set, 5/16-18 x 5/16
4	STD328022	* Pulley (w/Set Screw) 2-1/2 dia. 1/2, "V" Groove, 5/8 bore, Keyed
5	STD600803	* Screw, Ty "T" Pan Hd., 8-32 x 3/8
6	68003	Cover, Housing
7	133656	* Screw, Flat Head, 10-32 x 1-3/4
8	68004	Housing, Disc
9	68069	Shaft, Drive
10	STD580025	* Key, Woodruff, No. 9
11	38812	Key, Woodruff
12	STD523115	* Screw, Hex Head, 5/16-18 x 1-1/2
13	STD551131	* Lockwasher, 5/16
14	68005	Bracket, Mounting
15	STD551031	* Washer, 21/64 x 7/8 x 1/8
16	68068	Bracket, Table Support
17	STD523110	* Screw, Hex Hd., 5/16-18 x 1
18	805606	Ring, Retaining
19	60434	Bearing, Ball
20	37158	Ring, Retaining 5/8
21	47222	Backstop
22	821981	Pulley, Drive (w/Set Screw)
23	STD502502	* Screw, Socket Head Set, 1/4-20 x 5/16
24	820015	Bearing, Ball
25	68006	Trap, Dust
26	STD551210	* Lockwasher, No. 10 Int. Tooth
27	STD511105	* Screw Pan Hd. 10-32 x 9/16
28	821161	Table, Belt
29	821166	Screw, Flat Hd, Hex, 10-32 x 1-3/4
30	STD551025	* Washer, Flat, 17/64 x 3/4 x 1/16
31	821170	Knob, 1/4-20
32	60205	Spring
33	STD541425	* Nut, Lock, 1/4-20
34	821168	Guide, Drum
35	38538	Ring, Retaining, 1/2
36	805561-4	Washer, .505 x 13/16 x 1/32
37	821359	Bolt, Tracking, 1/4-20 x 2
38	821171-1	Spacer, Guide
39	821165	Bracket
40	803997-5	Washer, Nylon, .390 x .75 x .125

* Standard Hardware Item - May be purchased locally

Key No.	Part No.	Description
41	816817	Nut, Hex Flange Lock, 10-32
42	821171	Spacer, Guide
43	821234	Spacer
44	821232	Washer, Hardened
45	821172	Spring, Tension
46	141594-1	Screw, Hex Soc. Hd., 1/4-20 x 3/4
47	821167	Lever, Tension
48	68072	Motor
49	60254	Bracket, Support
50	69184	Bracket, Mounting
51	60253	Support, Belt Guard
52	STD601105	* Screw Ty "T" Pan head, 10-32 x 1/2
53	60255	"S" Clip
54	60252	Guard, Belt
55	STD304410	* V-Belt, 1/2 x 41"
56	STD328012	* Pulley (w/Set Screw) 2" Dia. x 1/2, "V" Groove, 5/8 Bore
57	38536	Bearing, Ball
58	68015	Base
59	821169	Shaft, Idler
60	STD512505	* Screw, Pan Hd., 1/4-20 x 1/2
61	STD551125	* Lockwasher, 1/4
62	60145	* Wrench, Hex, 5/32
63	821982	Pulley, Idler
64	9-28403	† Belt, Sanding
65	60382	Outlet, ON/OFF Power (See Figure 2)
66	STD541250	* Nut, hex, 1/2-13
67	802762-1	* Bolt, Hex head, 1/2-13 x 3-3/4
68	821160	Cap, Vinyl
69	STD523107	* Bolt, High Strength, 5/16-18 x 3/4
70	STD523122	* Bolt, High Strength, 5/16-18 x 2-1/4
71	STD571812	* Pin, Roll, 3/16-1-1/4
72	68055	Table, Work
73	STD522512	* Screw, Hex Head, 1/4-20 x 1-1/4
74	STD541025	* Nut, hex, 1/4-20
75	68016	Support Assembly, Table
76	38738	Bracket, Table Lock
77	9416187	* Screw, Hex Head Ty "T", 5/16-18 x 3/4
78	68017	Wrench
79	71165	Tie, Wire
—	SP55582	Owner's Manual

† Stock Item - May be secured through the Hardware Department of most Sears stores

Repair Parts (continued)

Parts List for Craftsman Belt and Disc Sander - Model 113.225941

Always order by Part Number—Not by Key Number

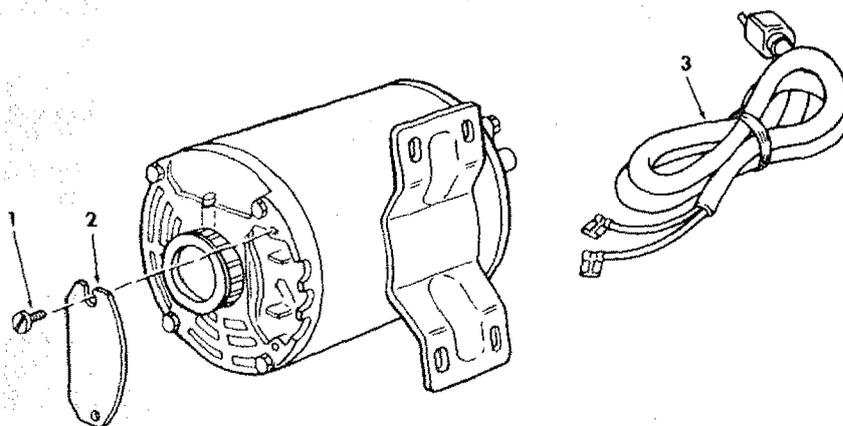


Figure 3 - Motor Part No. 68072

Key No.	Part No.	Description
1	60306	Screw, 8-32 x 3/8, Thread Cutting, Slotted, Serrated Head
2	64088	Cover, Terminal
3	64258	Cord w/Plug

NOTE: Any attempt to repair this motor may create a hazard unless repair is done by a qualified service technician. Repair service is available at your nearest Sears Service Center.

Parts List for Craftsman Belt and Disc Sander - Model 113.225941

Always order by Part Number—Not by Key Number

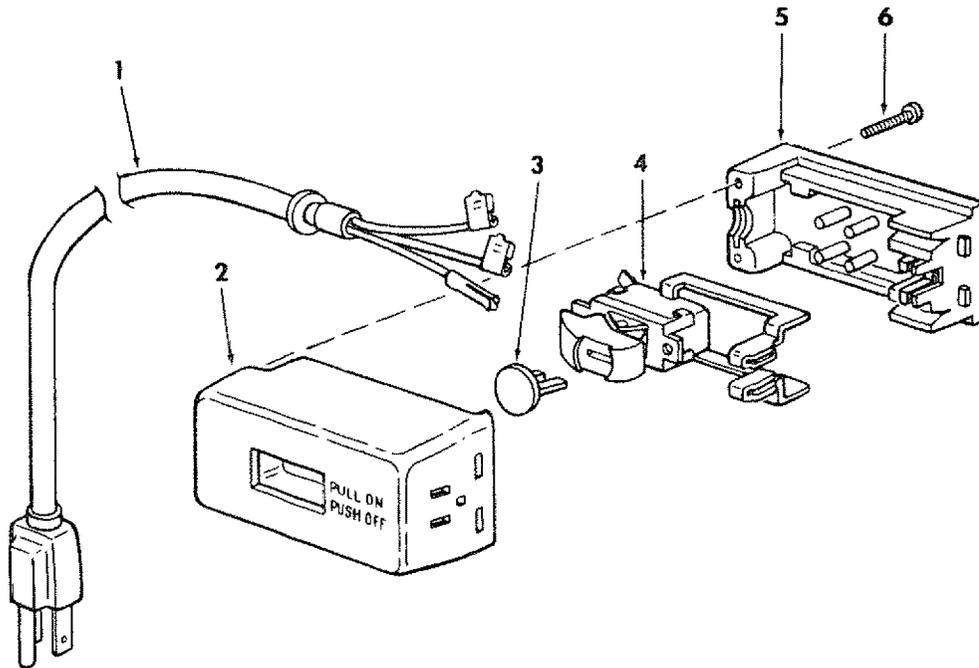


Figure 4 - On/Off Power Outlet 60382

Key No.	Part No.	Description
—	60382	• On/Off Power Outlet
1	60375	Cord, Molded
2	60378	Housing, Switch
3	9-22255	† Key, Switch
4	60374	Switch, Locking
5	60376	Cover, Switch
6	448007	Screw, Pan Hd. No. 6 x 3/4

• Does not include Key No. 3 - order separately if required.

† Stock Item - May be secured through the Hardware Department of most Sears store.

Motor Connections

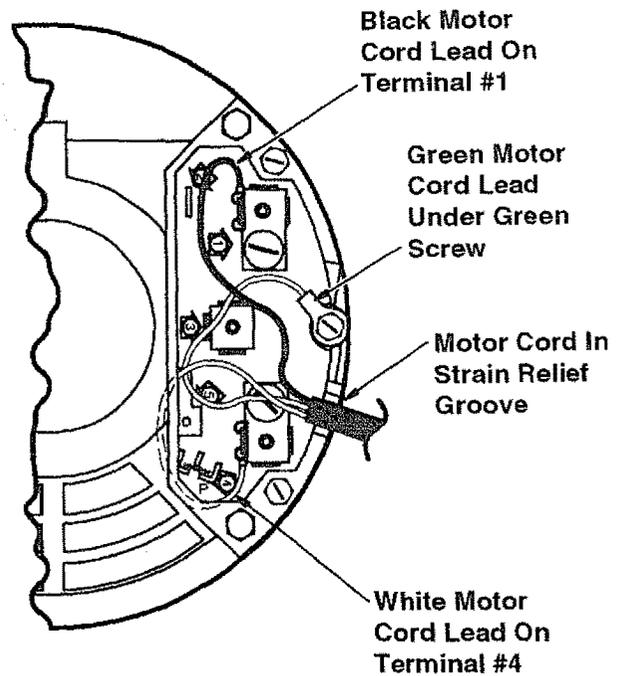
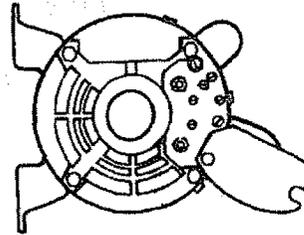
Motor Connections

WARNING: For your own safety, never connect plug to power source outlet until all assembly steps are completed.

1. Open motor connector box cover located on side of motor using a flat blade screwdriver.

WARNING: To avoid electrocution, never connect anything but the ground wire (colored green) to the green screw.

2. Remove **green screw** and insert through round metal terminal on the end of the **green** wire of motor cord.
3. Reinsert **green screw** in threaded hole that it was removed from and tighten securely.
4. Connect terminal end of **black** wire to terminal #1 on the motor. Push terminal firmly until seated.
5. Connect terminal end of **white** wire to terminal #4 on the motor. Push terminal firmly until seated.
6. Close motor connector box being sure that motor cord is seated in lower strain relief groove and tighten box cover screws.



Motor Cord Connections

SEARS

owner's
manual

**MODEL NO.
113.225941**

The model number of your Belt and Disc Sander will be found on a plate attached to the right hand side of the base.

When requesting service or ordering parts, always provide the following information:

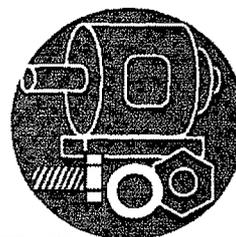
- Product Type
- Model Number
- Part Number
- Part Description

BELT AND DISC SANDER

For the repair or replacement parts you need

Call 7 am - 7 pm, 7 days a week

1-800-366-PART
(1-800-366-7278)



For in-home major brand repair service

Call 24 hours a day, 7 days a week

1-800-4-REPAIR
(1-800-473-7247)



**For the location of a
Sears Repair Service Center in your area**

Call 24 hours a day, 7 days a week

1-800-488-1222



**For information on purchasing a Sears
Maintenance Agreement or to inquire
about an existing Agreement**

Call 9 am - 5 pm, Monday-Saturday

1-800-827-6655



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