

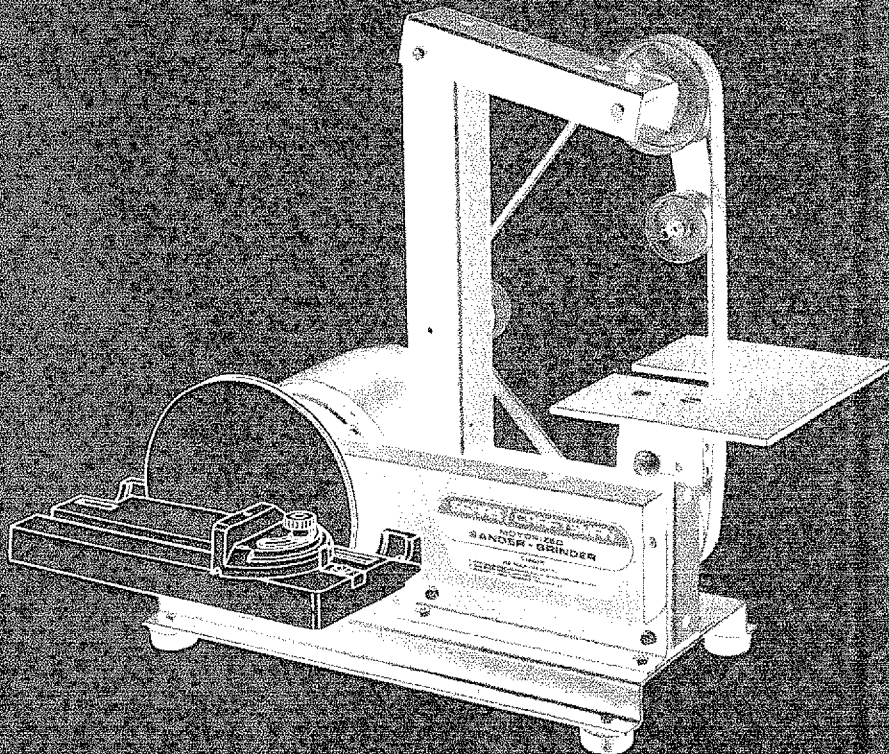
**Sears**

*owners  
manual*

**MODEL NO.  
113.22570**

**CAUTION:**

Read **GENERAL**  
and **ADDITIONAL**  
**SAFETY RULES**  
carefully



**CRAFTSMAN**

**1 INCH**

**SANDER GRINDER**

*assembly*

*operating*

*repair parts*

**SEARS, ROEBUCK AND CO., Chicago, Ill. 60684 U.S.A. and SIMPSONS-SEARS LIMITED, Toronto**

Part No. 68030

Printed in U.S.A.



## POWER TOOL GUARANTEE

Craftsman power tools (or welders) are unconditionally guaranteed, for one year, to give complete satisfaction or the tool will be repaired free of charge.

This guarantee service is available through any of our stores, or service centers throughout the United States or Canada.

SEARS, ROEBUCK AND CO. • SIMPSONS-SEARS LIMITED

## general safety instructions for power tools

### 1. KNOW YOUR POWER TOOL

Read the owner's manual carefully. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

### 2. GROUND ALL TOOLS

This tool is equipped with an approved 3-conductor cord and a 3-prong grounding type plug to fit the proper grounding type receptacle. The green conductor in the cord is the grounding wire. Never connect the green wire to a live terminal.

### 3. KEEP GUARDS IN PLACE

and in working order.

### 4. REMOVE ADJUSTING KEYS AND WRENCHES

Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

### 5. KEEP WORK AREA CLEAN

Cluttered areas and benches invite accidents. Floor must not be slippery due to wax or sawdust.

### 6. AVOID DANGEROUS ENVIRONMENT

Don't use power tools in damp or wet locations. Keep work area well lit. Provide adequate surrounding work space.

### 7. KEEP CHILDREN AWAY

All visitors should be kept a safe distance from work area.

### 8. MAKE WORKSHOP KID-PROOF

— with padlocks, master switches, or by removing starter keys.

### 9. DON'T FORCE TOOL

It will do the job better and safer at the rate for which it was designed.

### 10. USE RIGHT TOOL

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

### 11. WEAR PROPER APPAREL

No loose clothing, gloves, neckties or jewelry to get caught in moving parts. Rubber-soled footwear is recommended for best footing.

### 12. USE SAFETY GOGGLES

Safety goggles must comply with ANS Z87.1-1968. Also use face or dust mask if cutting operation is dusty.

### 13. SECURE WORK

Use clamps or a vise to hold work when practical. It's safer than using your hand, frees both hands to operate tool.

### 14. DON'T OVERREACH

Keep proper footing and balance at all times.

### 15. MAINTAIN TOOLS WITH CARE

Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

### 16. DISCONNECT TOOLS

before servicing, when changing accessories such as blades, bits, cutters, etc.

### 17. AVOID ACCIDENTAL STARTING

Make sure switch is in "OFF" position before plugging in.

### 18. USE RECOMMENDED ACCESSORIES

Consult the owner's manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

### 19. NEVER STAND ON TOOL

Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

Do not store materials above or near the tool such that it is necessary to stand on the tool to reach them.

### 20. CHECK DAMAGED PARTS

Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function — check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.



THIS SAFETY SEAL OF THE  
POWER TOOL INSTITUTE ASSURES YOU

1. That the manufacturer's power tools, including the particular tool associated with the Seal, are produced in accordance with applicable Standards For Safety of Underwriters' Laboratories and American National Standards (ANSI).

2. That compliance with applicable safety standards is assured by independent inspection and testing conducted by Underwriters Laboratories (UL).

3. That every motorized tool is inspected under power.

4. That every tool has with it adequate instructions and a list of safety rules for the protection of the user.

5. That the tool manufacturer is a member of the Power Tool Institute and is a sponsor of the Institute's Consumer Safety Education Program.



# additional safety instructions for sander/grinder

Safety is a combination of operator common sense and alertness at all times when the Sander/Grinder is being used.

**WARNING: FOR YOUR OWN SAFETY, DO NOT ATTEMPT TO OPERATE YOUR SANDER/GRINDER UNTIL IT IS COMPLETELY ASSEMBLED ACCORDING TO THE INSTRUCTIONS, AND THAT YOU UNDERSTAND THE FOLLOWING (SEE CONTENTS PAGE 3.)**

1. General Safety Instructions for Power Tools (Page 2)
2. Getting to Know Your Sander/Grinder (Page 5)
3. Basic Sander/Grinder Operations (Page 6)
4. Maintenance (Page 8)
5. Power Source Outlet. This tool should be grounded while in use to protect the operator from electric shock.

See "Motor Specifications and Electrical Requirements" section further on in this manual.

6. Support Workpiece. Maintain control of large workpieces.
7. Do Not Wet Grind or Polish. Never use a steady stream of water on the workpiece. Only quench the workpiece in water to cool it.
8. Do Not Grind or Polish Magnesium because it could catch on fire.
9. Think Safety.

**WARNING: DO NOT ALLOW FAMILIARITY (GAINED FROM FREQUENT USE OF YOUR SANDER/GRINDER) TO BECOME COMMONPLACE. ALWAYS REMEMBER THAT A CARELESS FRACTION OF A SECOND IS SUFFICIENT TO INFLICT SEVERE INJURY.**

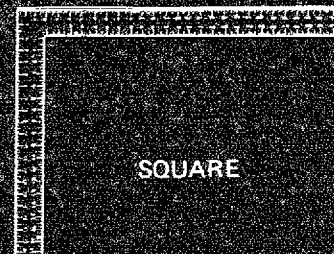
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## TOOLS NEEDED



9/16 INCH WRENCH



SQUARE



# motor specifications and electrical requirements

## MOTOR SPECIFICATIONS

The AC motor is a Split Phase non-reversible type, with the following specifications:

Horsepower	1/3
Voltage	115
Amperes	6
Hertz	60
Phase	Single
RPM	1725
Rotation (viewed from Pulley end)	clockwise
Abrasive Belt Speed (Feet Per Min.) Approx.	3000

Although the motor is designed for operation on the voltage and frequency specified on motor nameplate, normal loads will be handled safely on voltages not more than 10% above or below the nameplate voltage. Heavy loads, however, require that voltage at motor terminals be not less than the voltage specified on nameplate.

## CONNECTING TO POWER SOURCE

Plug power cord into a 110-120V properly grounded type outlet protected by a 15-amp. time delay or Circuit-Saver fuse or circuit breaker.

Frequent opening of fuses or circuit breakers may result if motor is overloaded, or if the motor circuit is fused with a fuse other than those recommended. Do not use a fuse of greater capacity without consulting the power company.

If you are not sure that your outlet is properly grounded, have it checked by a qualified electrician.

**WARNING: DO NOT PERMIT FINGERS TO TOUCH THE TERMINALS OF PLUGS WHEN INSTALLING OR REMOVING THE PLUG TO OR FROM THE OUTLET.**

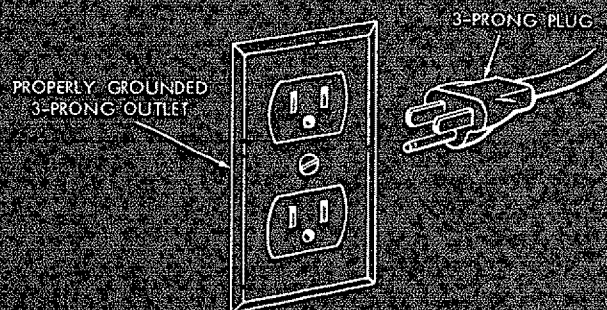
**WARNING: IF NOT PROPERLY GROUNDED THIS POWER TOOL CAN INCUR THE POTENTIAL HAZARD OF ELECTRICAL SHOCK, PARTICULARLY WHEN USED IN DAMP LOCATIONS, IN PROXIMITY TO PLUMBING, OR OUT OF DOORS. IF AN ELECTRICAL SHOCK OCCURS THERE IS THE POTENTIAL OF A**

## SECONDARY HAZARD SUCH AS YOUR HANDS CONTACTING THE ABRASIVE BELT OR DISC.

To comply with regulations of Underwriters' Laboratories in the United States and the Canadian Standards Association in Canada, this power tool is equipped with an approved 3-conductor cord and grounding type plug which has a grounding prong. The ground conductor has a green jacket and is attached to the tool housing at one end and to the ground prong in the attachment plug at the other end.

This plug requires a mating 3-conductor grounded type outlet as shown.

If the outlet you are planning to use for this power tool is of the two pronged type DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER, but have a qualified electrician replace the two prong outlet with a grounded three prong outlet.



The use of any extension cord will cause some loss of power. To keep this to a minimum and to prevent overheating and motor burn-out, use the table below to determine the minimum wire size (A.W.G.) extension cord. All cords should be 3-wire, grounded.

Extension Cord Length	Wire Size A.W.G.
50 ft. or less	12
100 ft. or less	10
100-150 ft.	8
150-200 ft.	6
200-400 ft.	4

## assembly

Your Craftsman Sander/Grinder is shipped complete including the motor. The Disc Sanding attachment and Miter Gauge are optional accessories.

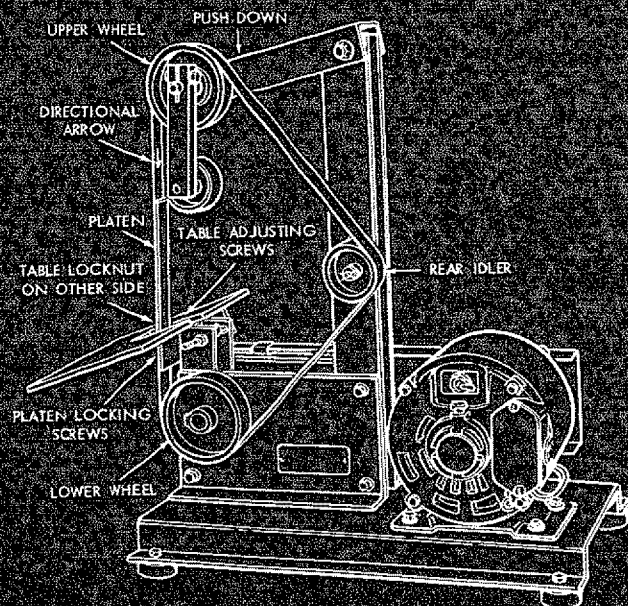
If any parts are missing, do not attempt to assemble the SANDER/GRINDER, plug in the power cord or turn the switch on until the missing parts are obtained and are installed correctly.

**WARNING: FOR YOUR OWN SAFETY, NEVER CONNECT PLUG TO POWER SOURCE OUTLET UNTIL ALL ASSEMBLY STEPS ARE COMPLETED.**

The top arm is held down with a piece of cord. Hold down on the arm, remove the cord and ease up on the arm.

Apply a coat of automobile wax to the table.

Wipe all parts thoroughly with a clean, dry cloth.



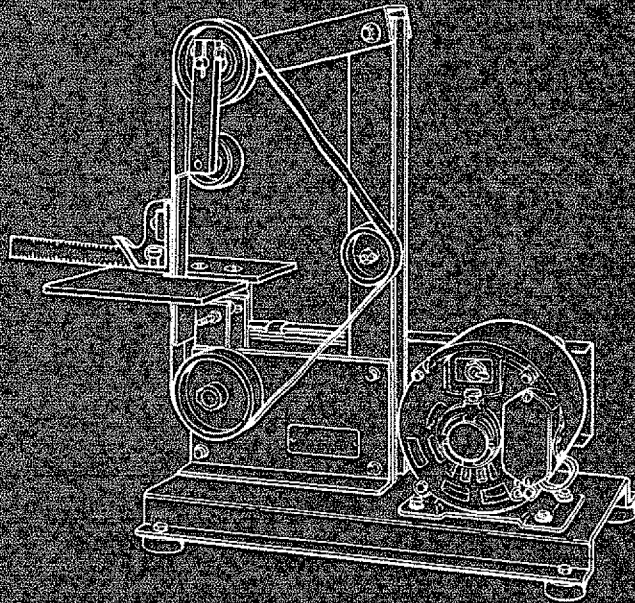


# assembly

## INSTALLING ABRASIVE BELT

Notice directional arrow  $\rightarrow$  on inside of belt ... it must point downward when the belt is installed.

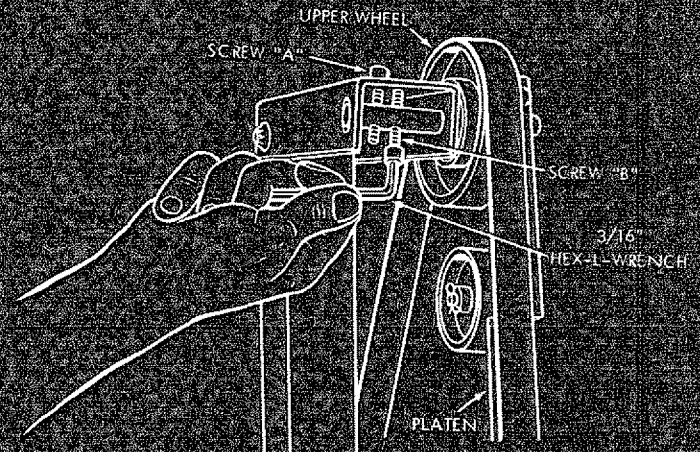
1. Push down on arm and position belt over upper and lower wheels and rear idler.



2. Using a 9/16 inch wrench, loosen TABLE LOCKNUT ... swing table upwards and move it as close to the belt without touching it.
3. Using an accurate square adjust table 90° to belt ...

## TRACKING BELT

1. Turn motor "ON". Belt should be running in center of upper wheel.
2. If it runs toward the right or left side of the wheel, loosen screw "A" using 3/16" set screw wrench furnished with your Sander/Grinder.
3. Turn screw "B" with Hex wrench and notice belt move sideways. Turn screw right or left until belt is running in center of wheel.
4. Tighten screw "A".

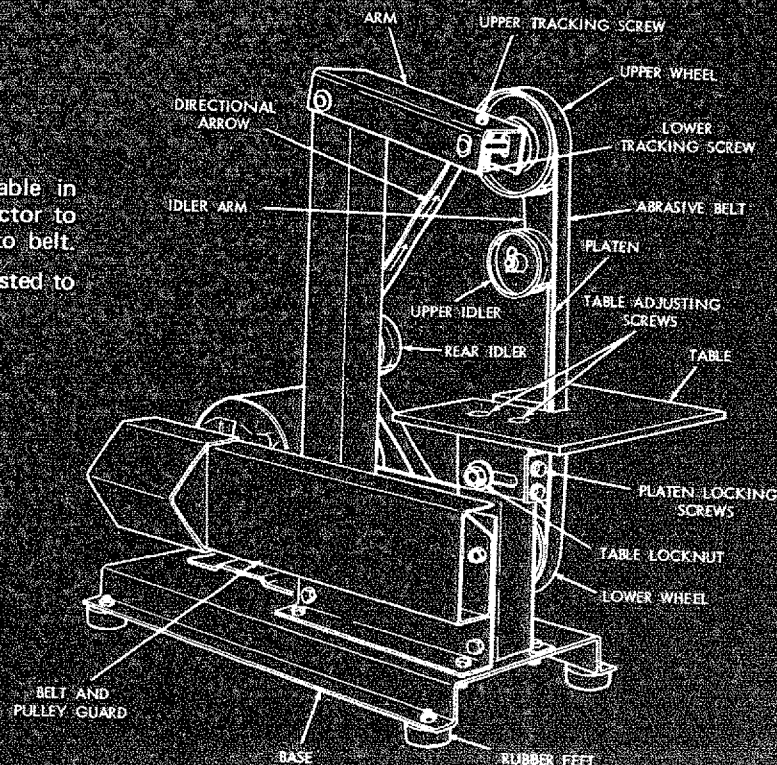


5. If belt touches edges of table, loosen TABLE ADJUSTING SCREWS and reposition table.
6. Belt should be even with edges of platen if it is not, loosen screws holding platen and adjust it.

# getting to know your sander/grinder

TABLE LOCK NUT locks table in place. Use a square or protractor to adjust table to desired angle to belt.

TRACKING SCREWS are adjusted to track belt.





# basic sander/grinder operation

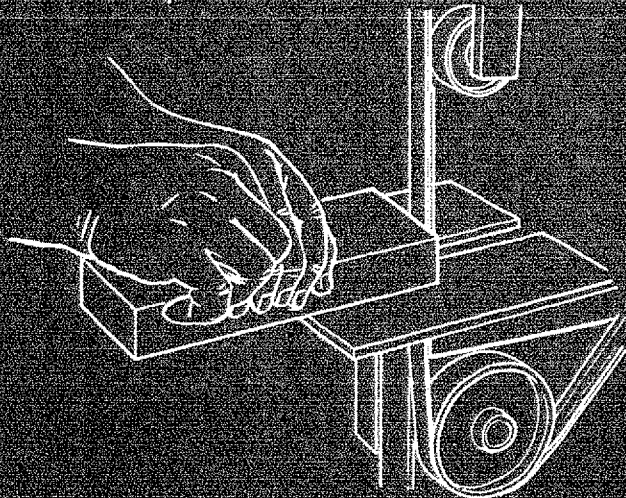
We recommend the following instructions for operating your Sander/Grinder so that you get the best results and to minimize personal injury.

## WARNING: FOR YOUR OWN SAFETY, ALWAYS OBSERVE THE FOLLOWING SAFETY PRECAUTIONS.

1. Make sure Table Lock Nut is always tight.
2. Remove plug from power source outlet when adjusting table, changing belts, or removing or adjusting platen.
3. After turning switch ON, always allow the belt to come up to full speed before sanding or grinding.
4. Make sure belt always tracks properly. Push the workpiece or cutting tool gently against the belt ... allowing the belt to cut without stalling the motor.
5. Keep your hands clear of the belt.
6. Replace belts when they become loaded (glazed) or frayed.

## SANDING WOOD OR PLASTICS

Move the workpiece across the belt.

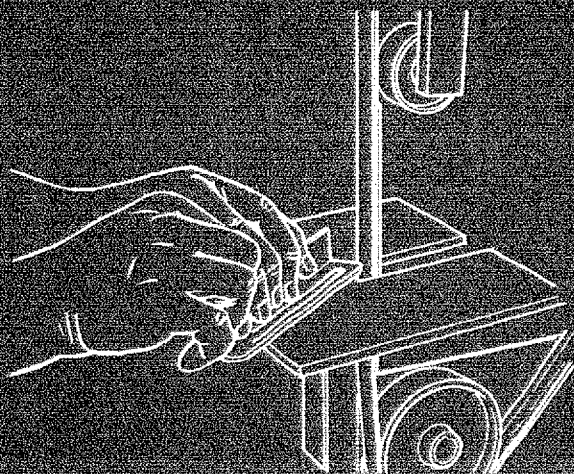


## GRINDING METAL

Move the workpiece across the belt.

If the workpiece becomes too hot to handle, quench it in cold water.

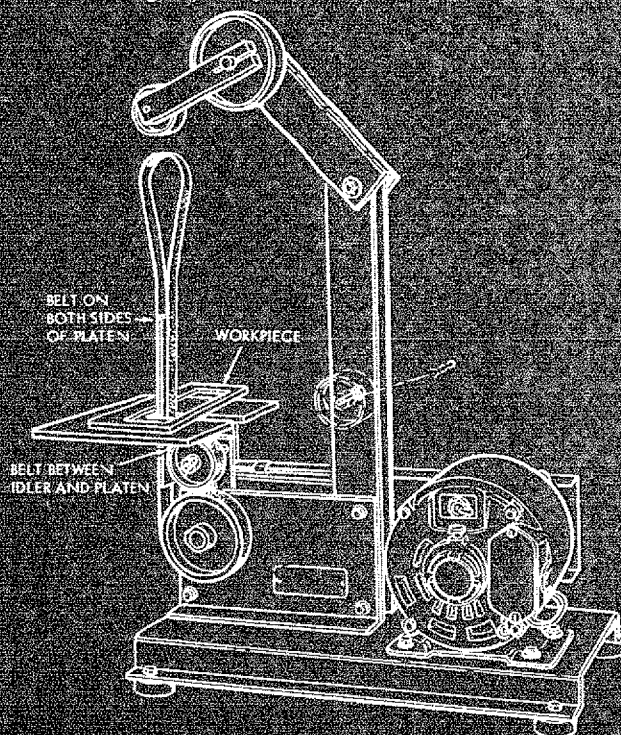
Never push a sharp corner of the workpiece rapidly against the belt because the belt could tear.



## INSIDE WORK

**WARNING: FOR YOUR OWN SAFETY, REMOVE PLUG FROM POWER SOURCE OUTLET.**

1. Remove the "Hairpin Clip" which retains the rear idler. Use a pair of long nose pliers.
2. Remove both washers and idler, and position them on shaft underneath table, replace clip.
3. Position belt over lower wheel and under idler. Thread belt through opening in workpiece.

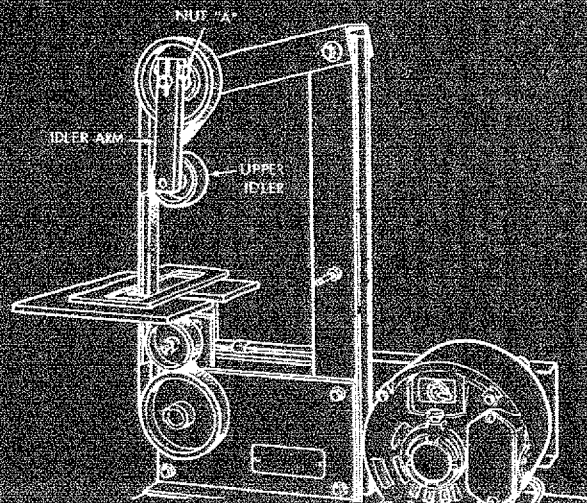


Push down on arm and position belt around upper idler and over upper wheel.

Make sure upper idler is positioned so that it causes belt to run against platen.

It can be adjusted by loosening nut "A" and repositioning idler arm.

Follow same procedure for Sanding or Grinding.



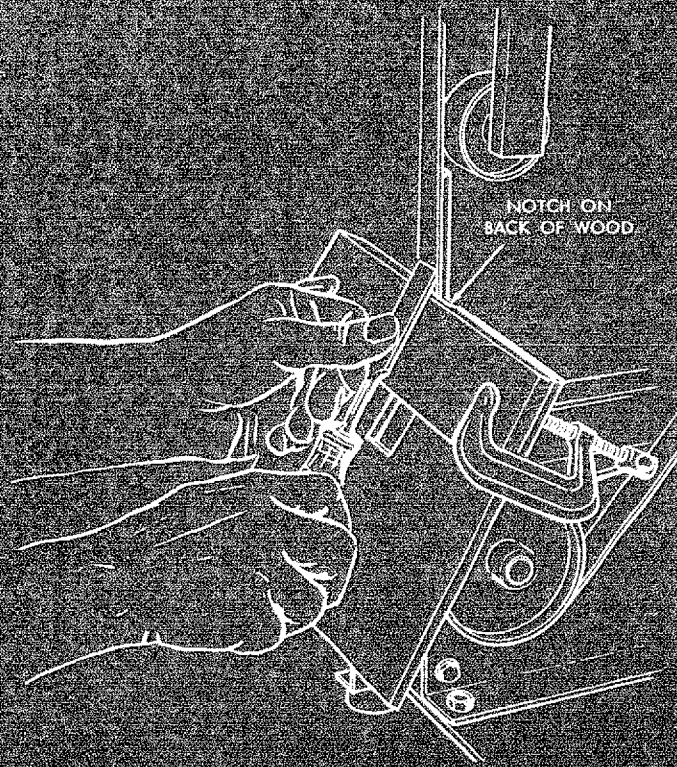


### SHARPENING

Move the cutting tool across the belt, pushing on it gently so that it does not burn.

Frequently quench the cutting tool in water to keep it cool.

When sharpening short cutting tools such as wood chisels, it will be necessary to clamp a piece of wood to the table. Sand a notch on the back of the wood so that the top corner is close to the belt.

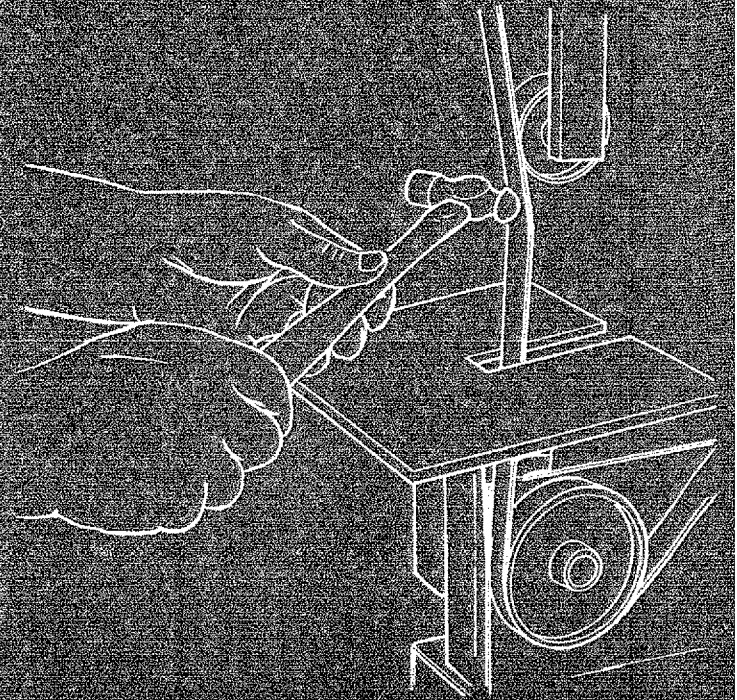


### POLISHING

Remove platen and adjust upper idler as shown or swing it to the rear.

Push the workpiece against the belt . . . move it gently so that the belt does not come off the wheels.

If the workpiece is metal, frequently quench it in water to keep it cool and prevent it from burning.





# **maintenance**

**WARNING: REMOVE PLUG FROM POWER SOURCE OUTLET BEFORE MAINTAINING OR LUBRICATING YOUR SANDER/GRINDER.**

Keep the Sander/Grinder and motor clean. Frequently blow out dust and chips.

# **lubrication**

The upper and lower wheels run on ball bearings which are permanently lubricated. They require no further lubrication.

The idlers contain bronze bearings. Occasionally apply a few drops of light machine oil.

# **recommended accessories**

<b>DISC SANDING ATTACHMENT</b> .....	<b>9-22573</b>
<b>MITER GAUGE</b> .....	<b>9-22574</b>
<b>ABRASIVE BELTS 1" x 42"</b>	
<b>FINE</b> .....	<b>9-26056</b>
<b>MEDIUM</b> .....	<b>9-26055</b>
<b>COARSE</b> .....	<b>9-26054</b>

The above recommended accessories are current and were available at the time this manual was printed.



# trouble shooting

**WARNING: FOR YOUR OWN SAFETY, ALWAYS REMOVE PLUG FROM POWER SOURCE OUTLET BEFORE TROUBLE SHOOTING.**

Any attempt to repair the motor may create a hazard unless repair is done by qualified service technician.  
Repair service is available at your nearest Sears Store.

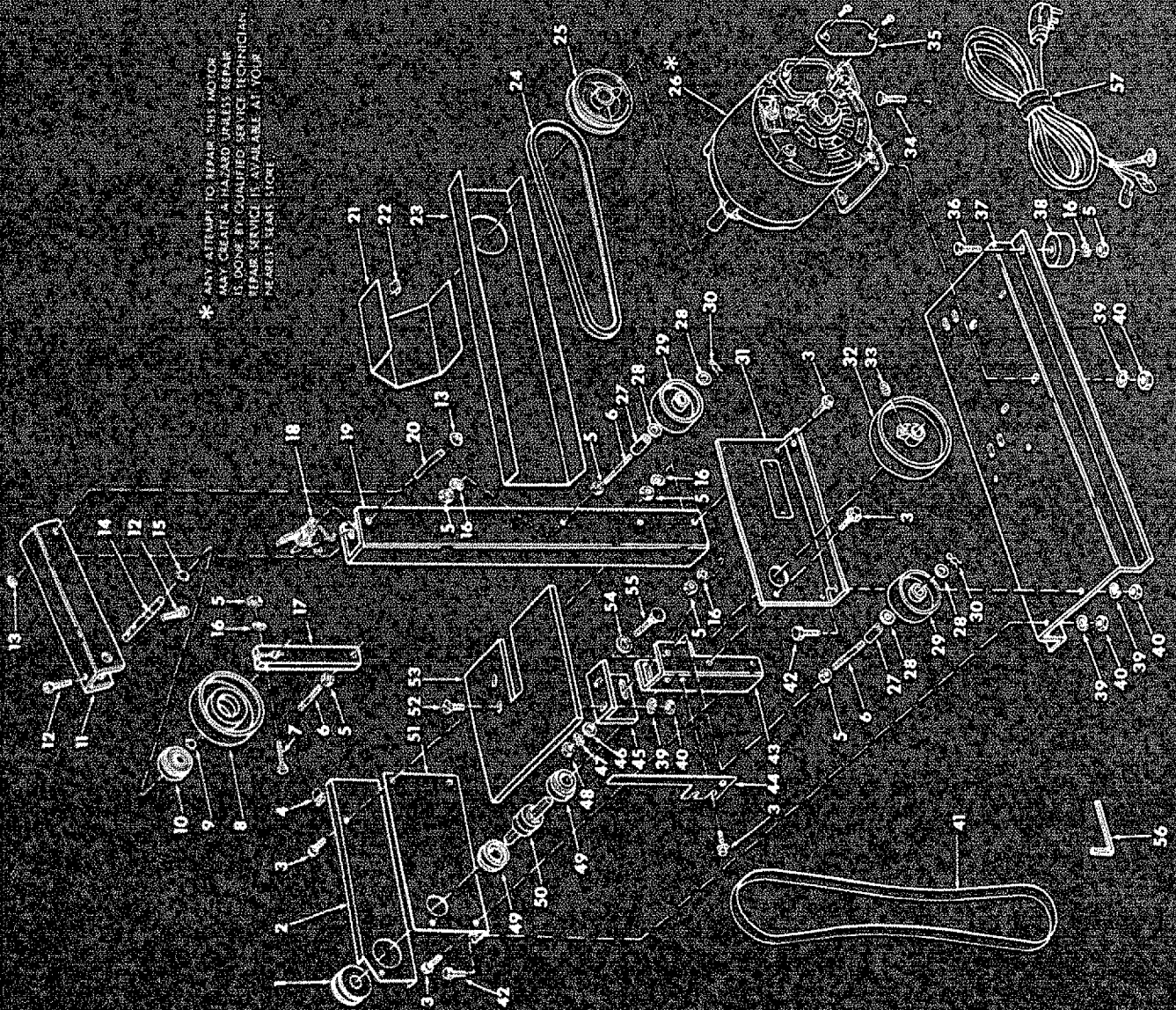
TROUBLE	PROBABLE CAUSE	SUGGESTED REMEDY
Motor will not start.	<ol style="list-style-type: none"> <li>1. Low voltage.</li> <li>2. Open circuit in motor or loose connections.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check power line for proper voltage.</li> <li>2. Inspect all lead terminations on motor for loose or open connection.</li> </ol>
Motor will not start, fuses or circuit breakers "blow".	<ol style="list-style-type: none"> <li>1. Short circuit in line, cord or plug.</li> <li>2. Short circuit in motor or loose connections.</li> <li>3. Incorrect fuses or circuit breakers in powerline.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inspect line, cord or plug for damaged insulation and shorted wires.</li> <li>2. Inspect all lead terminations on motor for loose or shorted terminals or worn insulation on wires.</li> <li>3. Install correct fuses or circuit breakers.</li> </ol>
Motor fails to develop full power (power output of motor decreases rapidly with decrease in voltage at motor terminals).	<ol style="list-style-type: none"> <li>1. Power line overloaded with lights, appliances and other motors.</li> <li>2. Undersize wires or circuits too long.</li> <li>3. General overloading of power company's facilities.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce the load on the power line.</li> <li>2. Increase wire sizes, or reduce length of wiring.</li> <li>3. Request a voltage check from the power company.</li> </ol>
Motor overheats.	<ol style="list-style-type: none"> <li>1. Motor overloaded.</li> <li>2. Air Circulation through the motor restricted.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce load on motor.</li> <li>2. Clean out motor to provide normal air circulation through motor.</li> </ol>
Motor stalls (resulting in blown fuses or tripped circuit breakers).	<ol style="list-style-type: none"> <li>1. Short circuit in motor or loose connections.</li> <li>2. Low voltage.</li> <li>3. Incorrect fuses or circuit breakers in power line.</li> <li>4. Motor overloaded.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inspect terminals in motor for loose or shorted terminals or worn insulation on lead wires.</li> <li>2. Correct the low line voltage conditions.</li> <li>3. Install correct fuses or circuit breakers.</li> <li>4. Reduce load on motor.</li> </ol>
Frequent opening of fuses or circuit breakers.	<ol style="list-style-type: none"> <li>1. Motor overloaded.</li> <li>2. Incorrect fuses or circuit breakers.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce motor load.</li> <li>2. Install correct fuses or circuit breakers.</li> </ol>



# repair parts

## PARTS LIST CRAFTSMAN 1 INCH SANDER/GRINDER MODEL 113.22570

\* ANY ATTEMPT TO REPAIR THIS MOTOR  
MAY CREATE A HAZARDOUS SITUATION.  
REPAIR SERVICE IS AVAILABLE AT YOUR  
NEAREST SEARS STORE.





**PARTS LIST  
FOR CRAFTSMAN 1 INCH SANDER/GRINDER  
MODEL 113.22570**

**ALWAYS ORDER BY PART NO. — NOT BY KEY NO.**

Key No.	Part No.	Description
1	805436	Pulley 1-1/2 x 5/8
2	68027	Bracket, Guard
3	273229	*Screw, Hex Ind. Washer Hd.
4	805428	Thrd Cutting 1/4-20 x 1/2
5	STD 541025	S-Clip
6	805103	*Nut, Hex 1/4-20
7	STD 522512	Shaft, Idler
8	805342	*Screw, Mach., Hex Hd., 1/4-20 x 1-1/4
9	38538	Wheel, Top
10	805097	Ring, Retaining 1/2
11	68023	Bearing, Ball
12	60102	Bracket, Top Pivot
13	60240	*Screw, Hex. Soc. Hd. Cap, 1/4-20 x 1
14	805341	Nut, Push 3/8
15	60293	Shaft, Top Arm Idler
16	STD 551125	Ring, Retaining 1/2
17	68024	Lockwasher, 1/4
18	805091	Arm, Top
19	68022	Spring, Torsion
20	805210	Channel, Column
21	68029	Shaft, Pivot Arm
22	805437	Guard, Motor Shaft
23	68028	Clip, "J"
24	STD 303300	Guard, Belt
25	805391	Belt, "y", 3/8 x 30
26	68018	Pulley, 3" x 1/2
27	805101	Motor
28	60128	Bearing, Sleeve
29	805100	*Washer, 17/64 x 5/8 x 1/32 Wheel, Idler

Key No.	Part No.	Description
30	805104	Clip, Hairpin
31	68020	Plate, R. H.
32	805105	Wheel, Drive
33	STD 503103	*Screw, Set, Hex Soc. Cup Pt., 5/16-18 x 3/8
34	126218	*Bolt, Carriage, 5/16-18 x 3/4
35	30763	Cover, Terminal
36	60017	*Screw, Mach., Hex Hd., 1/4-20 x 5/8
37	68026	Base
38	805116	Bumper, Rubber
39	STD 551131	*Lockwasher, 5/16
40	STD 541031	*Nut, Hex, 5/16-18
41	68032	†Belt, Abrasive 1 x 42
42	60078	*Screw, Mach. Hex Hd., 5/16-18 x 1/2
43	68021	Support, Table
44	805098	Platen, Belt
45	68031	Bracket, Table
46	120394	*Washer, 3/8 x 7/8 x 5/64
47	STD 551137	*Lockwasher, 3/8
48	STD 541037	*Nut, Hex 3/8-16
49	805209	Cap, Bearing
50	805343	Bearing, Arbor
51	68019	Plate, L.H.
52	133832	*Screw, Mach., Flat Hd., 5/16-18 x 7/8
53	68026	Table
54	60292	*Washer, 9/16 x 1-1/16 x 3/32
55	120915	*Bolt, Rd Hd. Carriage, 3/8-16 x 1
56	37911	Wrench Hex "L", 3/16
57	37567	Cord w/Plug
	68030	Owners Manual (Not illustrated)

• Any attempt to repair this motor may create a hazard unless repair is done by qualified service technician.

• Repair service is available at your nearest Sears store.

• Standard Hardware Item — May be Purchased Locally.

† Stock Item — May be Secured Through the Hardware Departments of Most Sears or Simpson-Sears Retail Stores or Catalog Order Houses



**Sears**

*owners  
manual*

**MODEL NO.  
113.22570**

**HOW TO ORDER  
REPAIR PARTS**

**CRAFTSMAN**

**1 INCH  
SANDER GRINDER**

The Model Number will be found on a plate attached to side of your Sander/Grinder. Always mention the Model Number when requesting service or repair parts for your 1 Inch Sander/Grinder.

All parts listed herein may be ordered through SEARS, ROEBUCK AND CO. or SIMPSONS-SEARS LIMITED. When ordering parts by mail, selling prices will be furnished on request or parts will be shipped at prevailing prices and you will be billed accordingly.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST.

1. The PART NUMBER
2. The PART DESCRIPTION
3. The MODEL NUMBER 113.22570
4. The NAME OF ITEM — 1 INCH SANDER/GRINDER.

Your Sears merchandise takes on added value when you discover that Sears has over 2000 Service Units throughout the country. Each is staffed by Sears-trained, professional technicians using Sears approved parts and methods.

SEARS, ROEBUCK AND CO., Chicago, Il. 60684 U.S.A. and SIMPSONS-SEARS LIMITED, Toronto