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# 1 INCH SANDER GRINDER

- assembly
- operating
- repair parts

Sold by SEARS, ROEBUCK AND CO., Chicago, IL. 60684 U.S.A. Part No. 68038 Printed in U.

### FULL ONE YEAR WARRANTY ON CRAFTSMAN 1 INCH SANDER/GRINDER

If within one year from the date of purchase, this Craftsman 1 inch Sander/Grinder fails due to a defect in material or workmanship, Sears will repair it, free of charge.

WARRANTY SERVICE IS AVAILABLE BY SIMPLY CONTACTING THE NEAREST SEARS STORE OR SERVICE CENTER THROUGHOUT THE UNITED STATES.

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

SEARS, ROEBUCK AND CO., Sears Tower, BSC 41-3, Chicago, IL 60684

## 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

in working order, and in proper adjustment and alignment.

### 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 or expose them to rain. Keep work area well lighted. 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**

Do not wear loose clothing, gloves, neckties or jewelry (rings, wrist watches) to get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

### 12. USE SAFETY GOGGLES (Head Protection)

Wear Safety goggles (must comply with ANS Z87.1) at all times. "Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses." Also, use face or dust mask if cutting operation is dusty, and ear protectors (plugs or muffs) during extended periods of operation.

### **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.

### 21. DIRECTION OF FEED

Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

### 22. NEVER LEAVE TOOL RUNNING UNATTENDED

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

# ADDITIONAL SAFETY INSTRUCTIONS FOR SANDER/GRINDER

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)
- 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 workpiece at all times.
- 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. Note and follow Safety Instructions that appear on the belt guard.



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

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.

The operation of any power tool can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety goggles complying with ANSI Z87.1 (shown on Package) before commencing power tool operation. Safety Goggles are available at Sears retail or catalog stores.

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9/16 INCH WRENCH

COMBINATION SQUARE

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## MOTOR SPECIFICATIONS AND ELECTRICAL REQUIREMENTS

### MOTOR SPECIFICATIONS

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

				eet Per Min.) Approx.	
	RPM	 		Pulley end)	1725 . clockwise
	Phase				Single
Ĵ	Hertz				60
	Amperes		* * * * * * * *		6
	Voltage	1401			115
17	Horsepov	MOT	ala no ta da	아이들 아이들 아이들 것 같아요. 아이들 것 같아요. 아이들 것 같아요.	

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 OUTLET

This Sander/Grinder must be grounded while in use to protect the operator from electrical shock.

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

If your Sander/Grinder is for use on less than 150 volts it has a plug that looks like below.



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

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 PLUG 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.

This Sander/Grinder is equipped with a 3-conductor cord and grounding type plug which has a grounding prong, approved by Underwriters' Laboratories and the Canadian Standards Association. The ground conductor has a green lug 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 Sander/Grinder is of the two prong type DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER. Use an adapter as shown 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 shown below is available for connecting plugs to 2-prong receptacles. The green grounding lug extending from the adapter must be connected to a permanent ground such as to a properly grounded outlet box.



**NOTE:** The adapter illustrated is for use only if you already have a properly grounded 2-prong receptacle. Adapter is not allowed in Canada by the Canadian Electrical Code.

The use of any extension cord will cause some loss of power. To keep this to a minimum and to prevent over-heating and motor burn-out, use the table below to determine the minimum wire size (A.W.G.) extension cord. Use only 3 wire extension cords which have 3 prong grounding type plugs and 3-pole receptacles which will accept the plug on the Sander/Grinder.

#### 

100-200	Ft.				•	•	•						•	٠	×						•			•	•	.14	
200-400	Ft.	٠	•	•	•	•	•	•	•	•	•	•	•	•	÷	•	•	•	•	•	•	•	•	•	•	.10	)

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

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

The top arm is spring loaded and held down for shipping purposes with a piece of cord. Hold down against spring pressure 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.



WING NUT

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### **INSTALLING ABRASIVE BELT**

Your Sander/Grinder is shipped with the abrasive belt installed. When replacing belts, notice directional arrow ---- on inside of belt . . . it must point downward on the front section of the belt when installed.

- 1. Remove both upper and lower belt guards by removing the three (3) wing screws which secure the guards.
- 2. Push down on arm and position belt over upper and lower wheels and rear idler.
- 3. Using a 9/16 inch wrench, loosen TABLE LOCKNUT ... , swing table upwards and move it as close to the belt without touching it.
- 4. Using an accurate square adjust table 90° to belt ...

### TRACKING BELT

### CAUTION: Remove both upper and lower guard. Sanding belt may cut into guard prior to final tracking.

- 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.
- 7. Replace "Upper" and "Lower" Guards.



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# **GETTING TO KNOW YOUR SANDER/GRINDER**



# **BASIC SANDER/GRINDER OPERATIONS**

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 reducing the belt speed appreciably or 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.



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### **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 both "Upper" and "Lower" guards.
- 2. Loosen wing nut and position guard back as shown.
- 3. Remove the "Hairpin Clip" which retains the rear idler. Use a pair of long nose pliers.
- 4. Remove washer and idler, and position them on shaft underneath table; replace clip.
- 5. 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.
- 7. Make sure upper idler is positioned so that it causes belt to run against platen.
- 8. It can be adjusted by loosening nut "A" and repositioning idler arm.
- 9. Replace "Upper" and "Lower" guards.
- 10. Position guard back and tighten wing nut.
- 11. Follow same procedure for Sanding or Grinding.



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WORKPIECE

HAIRPIN CLIP

BELT ON BOTH SIDES

OF PLATEN

BELT BETWEEN

### SHARPENING

- Adjust table to proper angular position for intended operation. Lock securely.
- When sharpening short cutting tools such as wood chisels, it will be necessary to clamp a piece of wood to the table.
- 3. Sand a notch on the back of the wood so that the top corner is close to the belt.
- 4. Move the cutting tool across the belt, pushing on it gently so that it does not burn.
- 5. Frequently quench the cutting tool in water to keep it cool.

### POLISHING

- 1. Remove platen and adjust upper idler as shown or swing it to the rear.
- 2. Push the workpiece against the belt . . . move it gently so that the belt does not come off the wheels.
- 3. 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

NOTCH ON

BACK OF WOOD

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**

DISC SANDING ATTACHMENT9-22563	
MITER GAUGE (FOR USE WITH 9-22563) 9-22574	
ABRASIVE BELTS 1" x 42"	
FINE	
MEDIUM	
COARSE	

STEEL STAND
POWER TOOL KNOW HOW "HANDBOOKS"
TABLE SAW
RADIAL SAW
The chain approximated encountry and even at the

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.	1. Low voltage.	1. Check power line for proper voltage.
	2. Open circuit in motor or loose connections.	2. Inspect all lead terminations on motor for loose or open connection.
Motor will not start, fuses or circuit	1. Short circuit in line, cord or plug.	<ol> <li>Inspect line, cord or plug for damaged insulation and shorted wires.</li> </ol>
breakers "blow".	2. Short circuit in motor or loose connections.	<ol> <li>Inspect all lead terminations on motor for loose or shorted terminals or worn insulation on wires.</li> </ol>
	3. Incorrect fuses or circuit breakers in powerline.	3. Install correct fuses or circuit breakers.
Motor fails to develop full power (power output of motor decreases	<ol> <li>Power line overloaded with lights, appliances and other motors.</li> </ol>	1. Reduce the load on the power line.
rapidly with decrease in voltage at motor terminals).	2. Undersize wires or circuits too long.	2. Increase wire sizes, or reduce length of wiring.
(criminal),	3. General overloading of power company's facilities.	3. Request a voltage check from the power company
Motor overheats.	1. Motor overloaded.	1. Reduce load on motor.
	2. Air Circulation through the motor restricted.	2. Clean out motor to provide normal air circulation through motor.
Motor stalls (resulting in blown fuses or tripped circuit breakers).	1. Short circuit in motor or loose connections.	<ol> <li>Inspect terminals in motor for loose or shorted terminals or worn insulation on lead wires.</li> </ol>
	2. Low voltage.	2. Correct the low line voltage conditions.
	3. Incorrect fuses or circuit breakers in power line.	3. Install correct fuses or circuit breakers.
	4. Motor overloaded.	4. Reduce load on motor.
Frequent opening of fuses	1. Motor overloaded.	1. Reduce motor load.
or circuit breakers.	2. Incorrect fuses or circuit breakers.	2. Install correct fuses or circuit breakers.
Machine slows down while operating	1. "V" Belt to loose	<ol> <li>Adjust belt tension by pushing motor toward back until all slack is removed from belt.</li> </ol>
	2. Applying to much pressure to workpiece	2. Ease up on pressure.
Abrasive beit runs off top wheel	1. Not tracking properly.	1, See assembly section "Tracking Belt"



PARTS LIST FOR CRAFTSMAN 1 INCH SANDER/GRINDER MODEL 113.22560 ALWAYS ORDER BY PART NO. - NOT BY KEY NO.

1         68042         Cuard, Back         35         STD 541231         Nut, Hex Jam 5/16-18         36/16-18	Key No.	Part No.	Description	Key No.	Part No.	Description
STD 541710       *Nut, Wing 10.32       35       STD 551131         68023       Bracket, Top Pivot       37       STD 551031         680240       Bracket, Top Pivot       37       STD 551031         68023       Bracket, Top Pivot       37       STD 551031         68023       Bracket, Top Arm Idler       38       STD 551031         88043       Shaft, Top Arm Idler       38       STD 551051         880538       Ring, Retaining 1/2       38       STD 55006         805342       Nut, Hex 1/4-20       41       68048         805037       Bearing, Ball       42       805105         805348       Ring, Retaining 1/2       43       STD 541408         805039       Strut, Hex 1/4-20       44       68020         805105       *Washer, 1/1/64 x 5/8 x 1/16       43       805103         805106       Strew, Wing 1/4-20 x 1/12       43       80503         80044       Guard, Upter       53       50       8003         80045       Strew, Wing 1/4-20 x 1/12       53       50       50         80045       Strew, Wing 1/4-20 x 1/12       53       50       50       50         80046       Strew, Wing 1/4-20 x 1/12       56 </td <td><b></b></td> <td>68042</td> <td></td> <td>35</td> <td>STD 541231</td> <td>*Nut, Hex Jam 5/16-18</td>	<b></b>	68042		35	STD 541231	*Nut, Hex Jam 5/16-18
66023         Bracket, Top Pivot         37         STD 551031           60102         Nut, Push 3/8         Smt, Top Am Idler         38         STD 551031           60102         Stat, Top Am Idler         38         STD 551031           805097         Bearing, Ball         Smt, Top Am Idler         38         STD 552506           805037         Shity, Retaining 1/2         38         STD 503103           805037         Bearing, Ball         40         STD 503103           805038         Shity, Retaining 1/2         40         STD 541408           805039         Guard, Upper         41         68020           805039         Guard, Upper         41         503103           80539         Guard, Upper         41         50203           80540         Wut, Hex 1/4-20         46         STD 541137           80541         Screw, Wing 1/4-20         47         60049           80045         Kuth, Jop         8x 1/2         51         60049           80046         Screw, Wing 1/4-20         17/64         51         50         60031           80046         Screw, Wing 1/4-20         17/64         51         51         50         505           8004	2		*Nut, Wing 10-32	36	STD 551131	*Lockwasher, 5/16
60102         *Screw, Hex Soc. Hd. Cap 1/4-20 × 1         38         STD 533107           60240         Nut, Push 3/8         805116         39         805116           60243         Shaft, Top Arm Idler         39         805116         39         805116           805037         Shaft, Top Arm Idler         40         87D 552506         41         68043           805037         Wheel, Top         Wheel, Top         Wheel, Top         44         68020           805039         Wut, Hex 1/42         44         68020         47         68040           805039         STD 551125         *Lockwasher, 1/14         44         68020         47         68040           87D 551025         Wut, Hex 1/42         44         68020         45         68041         46         5710541408           86039         Guard, Upper         Ming 1/4-20 x 1/2         49         68043         52         10394           87D 51025         Washer, 17/64 x 5/8 x 1/16         49         68040         52         120394           87D 51025         Screw, Ming 1/4-20 x 1/2         50         80049         55         60033           88045         Screw, Ming 1/4-20 x 1/2         54         56         80533	ლ 	68023	Bracket, Top Pivot	37	STD 551031	*Washer, 11/32 x 3/4 x 1/16
60240         Nut, Push 3/8         39         805116           60240         Straft, Top Arm Idler         40         STD 522506           60043         Straft, Top Arm Idler         40         STD 522506           805342         Wheel, Top         805105         806116           805342         Wheel, Top         80500         805105           805342         Wheel, Top         41         68020           805342         Wheel, Top         43         8105           805342         Wheel, Top         43         805103           805342         Wheel, Hor 1/42         44         68020           805342         Strockwasher, 1/4         45         68041           80504         Guard, Upper         806113         44         68020           87D 551025         Washer, 17/64 x 5/8 x 1/16         49         68041         68031           80645         Guard, Motor Shaft         47         68041         68031           80645         Strew, Wing 1/4-20 x 1/2         51         68031         68033           80645         Strew, Ming 1/4-20 x 1/2         53         50         805209           8045         Strew, Ming 1/4-20 x 1/2         55         805209<	4	60102		38	STD 533107	*Bolt, Carriage 5/16-18 × 5/8
68043       Shaft, Top Arm Idler       40       STD 582050         87D 582050       Ring, Retaining 1/2       41       68048         8055037       Bearing, Ball       805105       805105         8055342       Bing, Retaining 1/2       41       68048         8055342       Bing, Retaining 1/2       44       68043         8055342       Bing, Retaining 1/2       45       68041         805532       Bing, Retaining 1/2       44       68020         805332       STD 551125       *Lockwasher, 1/4       50       68041         805033       STD 551025       *Washer, 1/6       45       68040         80040       Screw, Wing 1/4-20 x 1/2       49       68040       68040         80041       Gard, Upper       57       541408       68040         80042       Screw, Wing 1/4-20 x 1/2       49       68040       46       570 541137         80044       Gard, Motor Shaft       Ano. 8 x 1/2       50       68040       56       50       50509         80045       Screw, Pan Hd. Ty. A No. 8 x 1/2       51       68040       51       51       51       51       51       51       52       51       52       51       51	ى م	60240	Nut, Push 3/8	39	805116	Bumper, Rubber
STD 582050       *Ring, Retaining 1/2       41       68048         8055037       Bearing, Ball       805105       42       805105         8055037       Wineel, Top       Wines, Top       805010       41       68020         805503       STD 551125       *Lockwasher, 1/4       80501       45       805105         805038       STD 551025       *Lockwasher, 1/4       80501       45       80030         80339       STD 551025       *Nut, Hex 1/4-20       80040       46       80040         80038       STD 551025       *Nut, Hex 1/4-20       80040       47       68049         80038       Struct, Ming 1/4-20 x 1/15       47       68049       80033         80046       Struct, Ming 1/4-20 x 1/12       50       68044       80031         80046       Struct, Ming 1/4-20 x 1/12       50       68041       50       50         80046       Start, Idler       Start, Idler       50       50       50       50       50         80046       Start, Plot       Start, Idler       50       50       50       50       50       50       50       50       50       50       50       50       50       50       50 <t< td=""><td>0 </td><td>68043</td><td>Shaft, Top Arm Idler</td><td>40</td><td>STD 522506</td><td>*Screw, M. Hex 1/4-20 x 5/8</td></t<>	0 	68043	Shaft, Top Arm Idler	40	STD 522506	*Screw, M. Hex 1/4-20 x 5/8
805097       Bearing, Ball       42       805105         805342       Wheel, Top       43       STD 503103         805342       Wheel, Top       44       68020         8105       *Uot Wheel, Top       44       68020         8105       *Uot Hex 1/4-20       44       68020         805342       *Uut, Hex 1/4-20       45       68040         8053       STD 551025       *Uut, Hex 1/4-20       46       68030         8003       STD 551025       *Washer, 17/64 × 5/8 × 1/16       49       68031         8003       Strew, Wing 1/4-20       8049       68031       49       68031         80044       Strew, Wing 1/4-20 × 1/2       51       68031       53       51137         80045       Strew, Wing 1/4-20 × 1/2       53       505103       53       551137         80046       Strew, Faint Idler       53       505304       55       505304         800450       Strew, Miler (Includes Key No. 20)       55       80543       57D 541037         8004510       Bearing, Jeseve       54       57D 541037       54       57D 541037         80045       Strew, Hex Ind. Washer Hd. 1/4-20 × 1/12       55       80543       57D 551037	~	STD 582050	*Ring, Retaining 1/2	41	68048	Base
805342       Wheel, Top       43       STD 503103         38538       Ring, Retaining 1/2       44       68020         310       STD 551125       *Lockwasher, 1/4       45       68041         80033       STD 551025       *Lockwasher, 1/4       45       68040         80033       STD 551025       *Nut, Hex 1/4-20       46       57D 541408         80033       STD 551025       *Washer, 1/4-20       47       68040         80034       Gaard, Upper       49       68040       49         80044       Guard, Motor Shaft       49       68040       49         80045       Screw, Wing 1/4-20 x 1/2       50       805098       8033         80046       Strew, Ming 1/4-20 x 1/2       51       68033       51         80046       Shaft, Idler       53       57       50       80533         805101       Wheel, Idler (Includes Key No. 20)       55       80543       57       56         805101       Baritt, Idler       805510       Strew, Hex Ind. 1/4-20 x 1-1/4       55       805435       57       56       805435         805102       Strew, Hex Ind. Washer Hd. 1/4-20 x 1-1/4       55       805435       57       805435       57<	∞	805097	Bearing, Ball	42	805105	Wheel, Drive
38538       Ring, Fetaining 1/2       44       68020         STD 551125       *Lockwasher, 1/4.20       45       68041         STD 551125       *Nut, Hex 1/4.20       46       87D 541408         680339       6uard, Upper       *Nut, Hex 1/4.20       47       68040         STD 551125       *Nut, Hex 1/4.20       68041       68041         STD 551025       *Washer, 17/64 x 5/8 x 1/16       48       68032         STD 551025       Strew, Wing 1/4.20 x 1/2       49       68049         STD 551025       Strew, Wing 1/4.20 x 1/2       53       51       68031         S0045       Strew, Pan Hd. TY, A No. 8 x 1/2       53       80508       68049         S0045       Strew, Pan Hd. TY, A No. 8 x 1/2       53       805098       68033         S0046       Strew, Pan Hd. TY, A No. 8 x 1/2       53       805098       805098         S0046       Strew, Miler       53       53       805098       805098         S0046       Strew, Hex Ind. Washer Hd. 1/4-20 x 1/12       55       805209       805435         S015       Strup, Torison       Strup, Torison       56       8052343         S05100       Strup, Torian       Strup, Torin       56       805209 <td><b>ෆ</b></td> <td>805342</td> <td>Wheel, Top</td> <td>43</td> <td>STD 503103</td> <td>*Screw, Soc. Hd. Set 5/16-18 x 3/8</td>	<b>ෆ</b>	805342	Wheel, Top	43	STD 503103	*Screw, Soc. Hd. Set 5/16-18 x 3/8
STD 551125       *Lockwasher, 1/4       45       68041         STD 541025       *Nut, Hex 1/4-20       46       STD 541408         680339       Guard, Upper       47       68040         5710 551025       *Washer, 1/7/64 × 5/8 × 1/16       46       STD 541408         5710 551025       *Washer, 17/64 × 5/8 × 1/16       48       68049         5710 551025       *Washer, 17/64 × 5/8 × 1/16       49       68049         5710 551025       *Washer, 17/64 × 5/8 × 1/2       50       68049         5710 551025       *Washer, 17/64 × 5/8 × 1/2       53       571 537         58045       Shaft, Idler       53       571 551137         58046       Shaft, Idler       53       571 551137         5805101       Wheel, Idler (Includes Key No. 20)       55       805209         5710 551125       *Washer, 17/64 × 5/8 × 1/32       55       805209         5710 552121       Bearing, Sleeve       805103       56       80543         805100       Wheel, Idler (Includes Key No. 20)       55       805209       57         805101       Shaft, Pivot Arm       805102       56       805435       57         805102       Washer 17/64 × 5/8 × 1/32       57       56	2	38538	Ring, Retaining 1/2	44	68020	Plate, R. H.
STD 541025       *Nut, Hex 1/4-20       46       STD 541408         68039       Guard, Upper       47       68040         STD 551025       *Washer, 17/64 x 5/8 x 1/16       48       68032         30540       Screw, Wing 1/4-20 x 1/2       49       68049         STD 51025       Screw, Wing 1/4-20 x 1/2       50       805098         STD 51026       Screw, Pan Hd. TV. A No. 8 x 1/2       51       68031         STD 51026       Screw, Pan Hd. TV. A No. 8 x 1/2       51       68031         Struct, Motor Shaft       Guard, Motor Shaft       51       68049         Struct, For       Screw, Pan Hd. TV. A No. 8 x 1/2       51       68031         Guard, Motor Shaft       Screw, Pan Hd. TV. A No. 8 x 1/2       53       87D 541037         Struct, Ider       Bearing, Sleeve       53       805093       53       53         805101       Wheel, Idler (Includes Key No. 20)       55       805209       55       805209         Struct, Park, Ind.       Nex Hd. 1/4-20 x 1-1/4       55       805313       55       805333         Struct, Part, Pind.       Struct, Part, Ind.       Struct, Part, Ind.       56       805333         Struct, Part, Pind.       Struct, Part, 1/4-20 x 1-1/4       56	=	STD 551125	*Lockwasher, 1/4	45	68041	Support, Guard
68039         Guard, Upper         47         68040           STD 551025         *Washer, 17/64 x 5/8 x 1/16         48         68032           STD 551025         *Washer, 17/64 x 5/8 x 1/16         48         68032           STD 610805         *Screw, Wing 1/4-20 x 1/2         50         805098           STD 610805         *Screw, Fan Hd. Ty. A No. 8 x 1/2         50         805098           SR045         Screw, Ming 1/4-20 x 1/2         51         68031           S045         Screw, Pan Hd. Ty. A No. 8 x 1/2         51         68031           S045         Screw, Motor Shaft         51         68031           68046         Shaft, Idler         53         STD 551137           68046         Shaft, Idler         53         STD 551137           805100         Wheel, Idler         805209         53         57           805101         Wheel, Idler         1/4-20 x 1-1/4         55         805233           805102         String, Torsion         805313         54         57         805435           805103         String, Torsion         805104         1/4-20 x 1/2         58         68027           805103         String, Torsion         String 1/4-20 x 1/2         57         8054	12	STD 541025	*Nut, Hex 1/4-20	46	STD 541408	*Screw, M. Hex 5/16-18 x 1/2
STD 551025       *Washer, 17/64 x 5/8 x 1/16       48       68032         30540       Screw, Wing 1/4-20 x 1/2       68049       68049         STD 610805       Screw, Wing 1/4-20 x 1/2       50       805098         STD 610805       *Screw, Wing 1/4-20 x 1/2       51       68049         STD 610805       *Screw, Wing 1/4-20 x 1/2       51       68049         STD 610805       *Screw, Pan Hd. Ty. A No. 8 x 1/2       51       68049         Start, Idler       Snaft, Idler       52       120394         68046       Shaft, Idler       Bearing, Sleeve       53       STD 551037         805101       Wheel, Idler (Includes Key No. 20)       55       805209         805101       Wheel, Idler (Includes Key No. 20)       55       805343         805101       Wheel, Idler (Includes Key No. 20)       55       805343         805101       Wheel, Idler (Includes Key No. 20)       55       805343         805102       Wheel, Idler (Includes Key No. 20)       55       805343         805101       Wheel, Idler (Includes Key No. 20)       55       805343         805102       String, Torsion       805343       805343         805210       String, Torsion       80531       805333	13	68039	Guard, Upper	47	68040	Guard, Lower
30540       Screw, Wing 1/4:20 x 1/2       49       68049         STD 610805       *Screw, Pan Hd. Ty. A No. 8 x 1/2       50       80649         STD 610805       *Screw, Pan Hd. Ty. A No. 8 x 1/2       50       805098         68045       Guard, Motor Shaft       52       51       68031         68046       Shaft, Idler       Arm, Top       52       120394         68046       Shaft, Idler       Staft, Idler       53       STD 551137         68046       Shaft, Idler       Bearing, Sleeve       53       STD 551137         68046       Shaft, Idler       Bearing, Sleeve       53       STD 551137         805100       Wheel, Idler (Includes Key No. 20)       55       805209       805343         805100       Wheel, Idler (Includes Key No. 20)       55       805435       805435         805101       Wheel, Idler (Includes Key No. 20)       55       805435       805435         805102       Washer, 17/64 x 5/8 x 1/32       57       805435       57       805435         805101       Wheel, Idler (Includes Key No. 20)       56       80077       56       80077         805102       String, Torsion       Wheel (Includes Key No. 20)       56       805435       805435	14	STD 551025	*Washer, 17/64 × 5/8 × 1/16	48	68032	†Belt, Sanding 1 x 42
STD 610805       *Screw, Pan Hd. TY. A No. 8 × 1/2       50       805098         68045       Guard, Motor Shaft       51       68031         68045       Guard, Motor Shaft       52       120394         68046       Shaft, Idler       Arm, Top       53       STD 551137         68046       Shaft, Idler       Snaft, Idler       53       STD 551137         68046       Shaft, Idler       Bearing, Sleeve       53       STD 551137         68046       Shaft, Idler       Bearing, Sleeve       53       STD 551137         805100       Wheel, Idler (Includes Key No. 20)       55       805209         805100       Wheel, Idler (Includes Key No. 20)       55       805435         805101       Wheel, Idler (Includes Key No. 20)       55       805435         805091       STD 522512       *Washer, 17/64 x 5/8 x 1/32       57       805435         805091       Spring, Torsion       Wheel Md. 1/4-20 x 1/1/4       56       8005209         805103       Shaft, Pivot Arm       60       133832       57       68019         805103       Shaft, Pivot Arm       60       133832       53       68051         805103       Shaft, Idler       Strow, Hex Ind. Washer Hd. 1/4-20 x 1/2 <td>15</td> <td>30540</td> <td>Screw, Wing 1/4-20 x 1/2</td> <td>49</td> <td>68049</td> <td>Support, Table</td>	15	30540	Screw, Wing 1/4-20 x 1/2	49	68049	Support, Table
68044         Guard, Motor Shaft         51         68031           68045         Arm, Top         52         120394           68046         Shaft, Idler         Arm, Top         53         57D 551137           68046         Shaft, Idler         Bearing, Sleeve         53         57D 551137           68046         Shaft, Idler         Bearing, Sleeve         53         57D 551037           805100         Wheel, Idler (Includes Key No. 20)         55         805209           805100         Wheel, Idler (Includes Key No. 20)         55         805343           805101         Wheel, Idler (Includes Key No. 20)         55         805435           805091         String, Torsion         Wheel I 1/4-20 x 1-1/4         57         805435           805091         Spring, Torsion         805104         8005435         8005435           805091         Spring, Torsion         60         133832         68019           68047         Guard, Belt         Fort Arm         60         133832           805103         Statt, Idler         59         68019           68047         Strow, Hex Ind. Washer Hd. 1/4-20 x 1/2         61         68050           805103         Strow, Hex Ind. Washer Hd. 1/4-20 x 1/2	16	STD 610805		50	805098	Platen, Belt
68045         Arm, Top         52         120394           68046         Shaft, Idler         Shaft, Idler         53         STD 551137           68046         Shaft, Idler         Bearing, Sleeve         53         STD 551137           805101         Wheel, Idler (Includes Key No. 20)         55         805209           805100         Wheel, Idler (Includes Key No. 20)         55         805209           805101         Wheel, Idler (Includes Key No. 20)         55         805343           805103         STD 551025         *Washer, 17/64 x 5/8 x 1/32         56         805343           805091         Spring, Torsion         805343         57         805435           805091         Spring, Torsion         58         68027         58           805103         Spring, Torsion         59         68019         60           805103         Spring, Forot Arm         60         133832         68027           805103         Staft, Pivot Arm         60         133832         68019           68047         Guard, Belt         Tod Washer Hd. 1/4-20 x 1/2         61         68050           805103         Staft, Idler         Staft         60         133832           805104         <	11	68044		51	68031	Bracket, Table
68046         Shaft, Idler         Shaft, Idler           805101         Bearing, Sleeve         53         STD 551137           805100         Wheel, Idler (Includes Key No. 20)         55         805209           805101         Wheel, Idler (Includes Key No. 20)         55         805209           805102         Wheel, Idler (Includes Key No. 20)         55         805209           805101         Wheel, Idler (Includes Key No. 20)         55         805343           805091         Spring, Torsion         56         805343           805091         Spring, Torsion         59         68019           805210         Shaft, Pivot Arm         68027         59         68019           68047         Guard, Belt         Spring, Torsion         59         68019           68047         Guard, Belt         Strud. Hex Ind. Washer Hd. 1/4-20 × 1/2         59         68019           68047         Guard, Belt         Strud. Alex         60         133832           805103         Shaft, Idler         60         133832           805104         Boltley 3" × 1/2         63         63051           805103         Strud. Hex Ind. Washer Hd. 1/4-20 × 1/2         61         68050           805103	18	68045		52	120394	*Washer, 3/8 × 7/8 × 5/64
805101         Bearing, Sleeve         54         STD 541037           805100         Wheel, Idler (Includes Key No. 20)         55         805209           87D 551025         *Washer, 17/64 x 5/8 x 1/32         55         805209           87D 551025         *Washer, 17/64 x 5/8 x 1/32         56         805343           87D 551025         *Washer, 17/64 x 5/8 x 1/32         57         805435           87D 551025         *Screw, M. Hex Hd. 1/4-20 x 1-1/4         57         805435           805091         Spring, Torsion         58         68027         59           805210         Shaft, Pivot Arm         68027         59         68019           68047         Guard, Belt         59         68019         59         68019           68047         Guard, Belt         Screw, Hex Ind. Washer Hd. 1/4-20 x 1/2         59         68050         133832           805103         Shaft, Idler         805104         60         133832         68050           805103         Statk, Idler         805104         71/220 x 1/2         61         68050           805103         Statk, Idler         Statk         63         53710         63021           805104         Reit, "V" 3/8 x 30         64	19	68046	Shaft, Idler	53	STD 551137	*Lockwasher, 3/8
805100         Wheel, Idler (Includes Key No. 20)         55         805209           STD 551025         *Washer, 17/64 x 5/8 x 1/32         56         805343           STD 551025         *Washer, 17/64 x 5/8 x 1/32         56         805343           STD 522512         *Screw, M. Hex Hd. 1/4-20 x 1-1/4         56         805343           STD 522510         Shaft, Pivot Arm         58         68027           805091         Spring, Torsion         59         68019           Shaft, Pivot Arm         68047         59         68019           68047         Guard, Belt         59         68019           68047         Guard, Belt         59         68019           68047         Guard, Belt         60         133832           805103         Shaft, Idler         60         133832           805104         Clip, Hairpin         60         133832           805104         Pulley 3" x 1/2         63         63051           805301         Belt, "V" 3/8 x 30         63         637837           64140         Cover, Terminal         65         37911           64338         Cord w/Plug         67         806451	50	805101	Bearing, Sleeve	54	STD 541037	*Nut, Hex 3/8-16
STD 551025*Washer, 17/64 × 5/8 × 1/3256805343STD 522512*Screw, M. Hex Hd. 1/4-20 × 1-1/457805435STD 522512*Screw, M. Hex Hd. 1/4-20 × 1-1/457805435805091Spring, Torsion5868019805210Shaft, Pivot Arm596801968047Guard, Belt596801968047Guard, Belt596801968047Guard, Belt6013383268047Guard, Belt6013383268047Guard, Belt6013383268047Guard, Belt6013383268047Guard, Belt6013383268047Guard, Belt601338326805103Shaft, Idler60133832805104Clip, Hairpin6363051805103Belt, "V" 3/8 x 3064537106613391Pulley 3" x 1/26637937631440Cover, Terminal663783764140Cover, Terminal6780645164394Cord w/Plug6780038	21	805100	Wheel, Idler (Includes Key No. 20)	55	805209	Cap, Bearing
STD 522512       *Screw, M. Hex Hd. 1/4-20 x 1-1/4       57       805435         805091       Spring, Torsion       58       68027         805210       Shaft, Pivot Arm       59       68019         805210       Shaft, Pivot Arm       59       68019         805210       Shaft, Pivot Arm       59       68019         68047       Guard, Belt       59       68019         68047       Guard, Belt       59       68019         68047       Guard, Belt       60       133832         68047       Guard, Belt       60       133832         68047       Screw, Hex Ind. Washer Hd. 1/4-20 x 1/2       61       68050         805103       Shaft, Idler       62       68051       63051         805104       Tpulley 3" x 1/2       63       602       533710         805301       #Pulley 3" x 1/2       63       53710       65       37911         805303       •Motor       65       37911       65       37911         64140       Cover, Terminal       67       806451       67       806451         643394       Cord w/Plug       Cord w/Plug       67       80338       80338	22	STD 551025	*Washer, 17/64 x 5/8 x 1/32	56	805343	Bearing, Arbor
805091       Spring, Torsion       58       68027         805210       Shaft, Pivot Arm       59       68019         805210       Shaft, Pivot Arm       59       68019         805210       Shaft, Pivot Arm       59       68019         68047       Guard, Belt       59       68019         68047       Guard, Belt       59       68019         68047       Guard, Belt       60       133832         273229       Screw, Hex Ind. Washer Hd. 1/4-20 × 1/2       61       68050         805103       Shaft, Idler       60       63       68051         805104       Clip, Hairpin       63       63       602       63051         805391       #Pulley 3" × 1/2       63       63       37911       64       57D<533710	23	STD 522512	*Screw, M. Hex Hd. 1/4-20 x 1-1/4	57	805435	Putley, 1-1/2 × 5/8
805210       Shaft, Pivot Arm       59       68019         68047       Guard, Belt       59       68019         68047       Guard, Belt       60       133832         805103       Shaft, Idler       60       61       68050         805104       Clip, Hairpin       63       60292       63       60292         805391       #Pulley 3" × 1/2       63       63       57911       63         805330       *Belt, "V" 3/8 × 30       66       37837       64       570       533710         68037       •Motor       65       37911       66       37837       64451         64140       Cover, Terminal       67       806451       67       806451	24	805091	Spring, Torsion	58	68027	Bracket, Guard
68047         Guard, Belt         60         133832           273229         Screw, Hex Ind. Washer Hd. 1/4-20 x 1/2         60         133832           273229         Screw, Hex Ind. Washer Hd. 1/4-20 x 1/2         61         68050           805103         Shaft, Idler         62         68051           805104         Clip, Hairpin         63         6022           805391         #Pulley 3" x 1/2         63         60292           805330         *Beit, "V" 3/8 x 30         65         37911           68037         •Motor         65         37911           64140         Cover, Terminal         67         806451           64394         Cord w/Plug         67         80638	25	805210	Shaft, Pivot Arm	59	68019	Plate, L. H.
273229       Screw, Hex Ind. Washer Hd. 1/4-20 x 1/2       61       68050         805103       Shaft, Idler       62       68051         805104       Clip, Hairpin       63       60292         805391       tPulley 3" x 1/2       64       STD 533710         805330       *Beit, "V" 3/8 x 30       65       37911         68037       •Motor       65       37911         64140       Cover, Terminal       65       37937         64394       Cover, Terminal       66       37837         64394       Cord w/Plug       67       806451	26	68047	Guard, Belt	09	133832	*Screw, Mach. Flat Hd. 5/16-18 x 7/8
805103       Shaft, Idler       62       68051       *         805104       Clip, Hairpin       63       60292       *       *         805391       tPulley 3" × 1/2       63       60292       *       *         805330       *Beit, "V" 3/8 × 30       64       STD 533710       *       *         805337       •Motor       65       37911       1       1         68037       •Motor       66       37837       1       1         64140       Cover, Terminal       67       806451       1       1         64394       Cord w/Plug       67       80638       1       1       1	27	273229	Screw, Hex Ind. Washer Hd. 1/4-20 x 1/2	61	68050	Table
805104       Clip, Hairpin       63       60292       *         805391       †Pulley 3" × 1/2       64       STD 533710       *         8053300       *Belt, "V" 3/8 × 30       65       37911       1         805331       •Motor       65       37913       1         68037       •Motor       66       37837       1         64140       Cover, Terminal       67       806451       1         64394       Cord w/Plug       -       68038       1       1	28	805103	Shaft, Idler	62	68051	Channel, Column
805391       tPulley 3" × 1/2       64       STD 533710       *         805391       *Belt, "V" 3/8 × 30       65       37911       1         65037       •Motor       65       37913       1         64140       Cover, Terminal       67       806451       1         64394       Cord w/Plug       -       68038       68038	29	805104		63	60292	*Washer, 9/16 × 1-1/16 × 3/32
STD303300       *Belt, "V" 3/8 x 30       65       37911       1         68037       • Motor       66       37837       1         64140       Cover, Terminal       67       806451       1         64394       Cord w/Plug        68038       1	8	805391	tPulley 3" x 1/2	64	STD 533710	*Bolt, Carriage 3/8-16 x 1
68037         • Motor         66         37837         †           64140         Cover, Terminal         67         806451         †           64394         Cord w/Plug          68038         1	ŝ	STD303300	*Belt, "V" 3/8 x 30	65	37911	tWrench, Hex "L" 3/16
Cover, Terminal 67 806451 67 Cord w/Plug 68038	32	68037	Motor	99	37837	tWrench, Hex "L" 5/32
Cord w/Plug 68038	ŝ	64140	Cover, Terminal	67	806451	Ring, Retaining 1-3/8
	34	64394	Cord w/Plug		68038	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	1 INCH SAND	DER GRINDER
SERVICE	should a need ever exist for Sears Service Center and r	chased your 1-inch sander grinder, repair or service, simply contact any most Sears, Roebuck and Co. stores. hent facts when you call or visit.
MODEL NO. 113.22560	The model number of you on the side of the base.	ır 1-inch sander grinder will be found
HOW TO ORDER REPAIR PARTS	WHEN ORDERING REP FOLLOWING INFORMAT	AIR PARTS, ALWAYS GIVE THE FION:
	PART NUMBER	PART DESCRIPTION
	MODEL NUMBER 113.22560	NAME OF ITEM 1-INCH SANDER GRINDER
	and most Sears stores. If	rdered from any Sears Service Center the parts you need are not stocked e electronically transmitted to a Sears Center for handling.

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