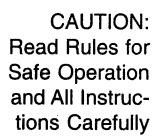


OWNER'S MANUAL

MODEL NO. 315.277140



Save This Manual For Future Reference

Thank You for Buying Craftsman Tools

CRAFTSMAN® 4-1/2 Inch Industrial Palm Grip Random Orbit Sander Double Insulated

Warranty Introduction Operation Maintenance Repair Parts



Sold only by SEARS, ROEBUCK AND CO., Hoffman Estates, IL 60179

972000-246 4-95 Printed In U.S.A.

FULL ONE YEAR WARRANTY ON CRAFTSMAN INDUSTRIAL PALM GRIP RANDOM ORBIT SANDER

If this Graftsman Industrial Palm Grip Random Orbit Sander fails due to a defect in material or workmanship within one year from the date of purchase, Sears will replace it, free of charge.

WARRANTY SERVICE IS AVAILABLE BY SIMPLY RETURNING THE TOOL TO THE NEAREST SEARS STORE IN 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., Dept. 817 WA, Hoffman Estates, IL 60179

INTRODUCTION

DOUBLE INSULATION is a concept in safety, in electric power tools, which eliminates the need for the usual three wire grounded power cord and grounded supply system. Wherever there is electric current in the tool there are two complete sets of insulation to protect the user. All exposed metal parts are isolated from internal metal motor components with protecting insulation. **IMPORTANT** - Servicing of a tool with double insulation requires extreme care and knowledge of the system and should be performed only by a qualified service technician. For service we suggest you return the tool to your nearest Sears Store for repair. Always use original factory replacement parts when servicing.

RULES FOR SAFE OPERATION

WARNING: THE DOUBLE INSULATED SYSTEM IS INTENDED TO PROTECT THE USER FROM SHOCK RESULTING FROM A BREAK IN THE TOOL'S INTERNAL WIRING. OBSERVE ALL NORMAL SAFETY PRECAUTIONS RELATED TO AVOIDING ELECTRICAL SHOCK.

WARNING : DO NOT ATTEMPT TO OPERATE THIS TOOL UNTIL YOU HAVE READ THOROUGHLY AND UNDERSTAND COMPLETELY ALL INSTRUCTIONS, SAFETY RULES, ETC. CONTAINED IN THIS MANUAL. FAILURE TO COMPLY CAN RESULT IN ACCIDENTS INVOLVING FIRE, ELECTRIC SHOCK. OR SERI-OUS PERSONAL INJURY. SAVE OWNERS MANUAL AND REVIEW FREQUENTLY FOR CONTINUING SAFE OPERATION, AND INSTRUCTING OTHERS WHO MAY USE THIS TOOL.

READ ALL INSTRUCTIONS

- 1. KNOW YOUR POWER TOOL Read owner's manual carefully. Learn its applications and limitations as well as the specific potential hazards related to this tool.
- 2. GUARD AGAINST ELECTRICAL SHOCK BY PREVENTING BODY CONTACT WITH GROUNDED SUR-FACES. For example: Pipes, radiators, ranges, refrigerator enclosures.
- 3. KEEP GUARDS IN PLACE and in working order.
- 4. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
- 5. AVOID DANGEROUS ENVIRONMENT. Don't use power tool in damp or wet locations or expose to rain. Keep work area well lit.
- 6. **KEEP CHILDREN AND VISITORS AWAY.** All visitors should wear safety glasses and be kept a safe distance from work area. Do not let visitors contact tool or extension cord.
- 7. STORE IDLE TOOLS. When not in use tools should be stored in a dry, high or locked-up place out of the reach of children.
- 8. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
- USE RIGHT TOOL. Don't force small tool or attachment to do the job of a heavy duty tool. Don't use tool for purpose not intended - for example - Don't use a circular saw for cutting tree limbs or logs.
- 10. WEAR PROPER APPAREL. No loose clothing or jewelry to get caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Also, wear protective hair covering to contain long hair and keep it from being drawn into air vents.
- 11. ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses have only impact-resistant lenses; they are NOT safety glasses.

RULES FOR SAFE OPERATION (Continued)

- 12. PROTECT YOUR LUNGS. Wear a face or dust mask if operation is dusty.
- 13. **PROTECT YOUR HEARING.** Wear hearing protection during extended periods of operation.
- 14. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
- 15. SECURE WORK. Use clamps or a vise to hold work. Both hands are needed to operate the tool.
- 16. **DON'T OVERREACH.** Keep proper footing and balance at all times. Do not use on a ladder or unstable support.
- 17. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 18. **DISCONNECT TOOLS.** When not in use, before servicing, or when changing sanding disc, attachments, blades, bits, cutters, etc., all tools should be disconnected from power supply.
- 19. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- 20. AVOID ACCIDENTAL STARTING. Don't carry plugged-in tools with finger on switch. Be sure switch is off when plugging in.
- 21. MAKE SURE YOUR EXTENSION CORD IS IN GOOD CONDITION. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. A wire gage size (A.W.G.) of at least 16 is recommended for an extension cord 100 feet or less in length. A cord exceeding 100 feet is not recommended. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.
- 22. **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords suitable for use outdoors. Outdoor approved cords are marked with the suffix W-A, for example SJTW-A or SJOW-A.
- 23. NEVER USE THIS OR ANY POWER SANDER FOR WET SANDING OR LIQUID POLISHING. Failure to comply can result in electrical shock causing serious injury or worse.
- 24. KEEP HANDS AWAY FROM SANDING AREA.
- 25. NEVER USE IN AN EXPLOSIVE ATMOSPHERE. Normal sparking of the motor could ignite fumes.
- 26. **INSPECT TOOL CORDS PERIODICALLY** and if damaged, have repaired at your nearest Sears Repair Center. Stay constantly aware of cord location.
- 27. INSPECT EXTENSION CORDS PERIODICALLY and replace if damaged.
- 28. **KEEP HANDLES DRY, CLEAN, AND FREE FROM OIL AND GREASE.** Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products or any strong solvents to clean your tool.
- 29. **STAY ALERT.** Watch what you are doing and use common sense. Do not operate tool when you are tired. Do not rush.
- 30. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine 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 by an authorized service center unless indicated elsewhere in this instruction manual.
- 31. **DO NOT USE TOOL IF SWITCH DOES NOT TURN IT ON AND OFF.** Have defective switches replaced by an authorized service center.
- 32. Inspect for and remove all nails from lumber before sanding.
- 33. **DRUGS, ALCOHOL, MEDICATION.** Do not operate tool while under the influence of drugs, alcohol, or any medication.
- 34. When servicing use only identical Craftsman replacement parts.
- 35. **POLARIZED PLUGS.** To reduce the risk of electric shock, this tool has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.
- 36. SAVE THESE INSTRUCTIONS. Review them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also.

FEATURES

Your sander is suitable for sanding with coarse, medium, and fine grit sanding discs. See Figure 1.

, ø

BEFORE ATTEMPTING TO USE YOUR SANDER, FAMILIARIZE YOURSELF WITH ALL OPERATING FEATURES AND SAFETY REQUIREMENTS.

WARNING: IF ANY PARTS ARE MISSING DO NOT OPERATE YOUR SANDER UNTIL THE MISSING PARTS ARE REPLACED. FAILURE TO DO SO COULD RESULT IN POSSIBLE SERIOUS PERSONAL INJURY.

ELECTRICAL CONNECTION

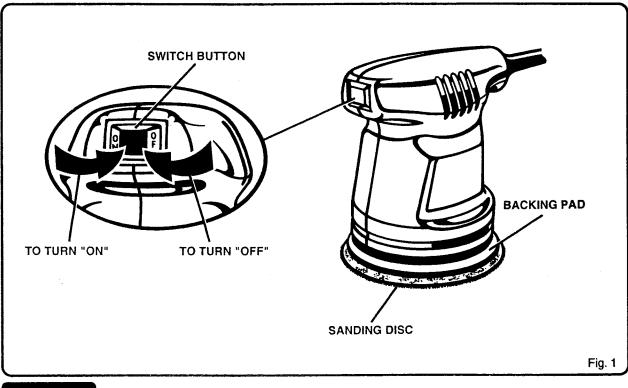
Your sander has a precision built electric motor. It should be connected to a **power supply that is 120 volts, 60 Hz, AC only** (normal household current). Do not operate this tool on direct current (DC). A voltage drop of more than 10 percent will cause a loss of power and overheating. If your tool does not operate when plugged into an outlet, double-check the power supply.

WARNING: DO NOT ALLOW FAMILIARITY WITH YOUR SANDER TO MAKE YOU CARELESS. REMEMBER THAT A CARELESS FRACTION OF A SECOND IS SUFFICIENT TO INFLICT SEVERE INJURY.

SWITCH

See Figure 1.

This tool is equipped with a simple switch control. To turn sander "ON", depress the switch button as shown in Figure 1. Depress the switch button in the opposite direction to turn your sander "OFF". BE SURE SANDER SWITCH IS IN "OFF" POSITION BEFORE CONNECTING TO POWER SUPPLY SOURCE.



WARNING:



The operation of any sander can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields, available at Sears Retail Stores.

OPERATION

WARNING: YOUR SANDER SHOULD NEVER BE CONNECTED TO POWER SUPPLY WHEN YOU ARE ASSEMBLING PARTS, MAKING ADJUSTMENTS. ASSEMBLING OR REPLACING SANDING DISC. CLEANING, OR WHEN NOT IN USE. DISCONNECTING SANDER WILL PREVENT ACCIDENTAL STARTING THAT COULD CAUSE SERIOUS PERSONAL INJURY.

APPLICATIONS

(USE ONLY FOR THE PURPOSES LISTED BELOW)

- 1. Sanding wood surfaces.
- 2. Removing rust from and sanding steel surfaces.

SANDING DISC SELECTION

Selecting the correct size grit and type sanding disc is an extremely important step in achieving a high quality sanded finish. Aluminum oxide, silicon carbide, and other synthetic abrasives are best for power sanding. Natural abrasives, such as flint and garnet are too soft for economical use in power sanding.

In general, coarse grit will remove the most material and finer grit will produce the best finish in all sancing operations. The condition of the surface to be sanded will determine which grit will do the job. If the surface is rough, start with a coarse grit and sand until the surface is uniform. Medium grit may then be used to remove scratches left by the coarser grit and finer grit used for finishing of the surface. Always continue sanding with each grit until surface is uniform.

TO ATTACH SANDING DISC

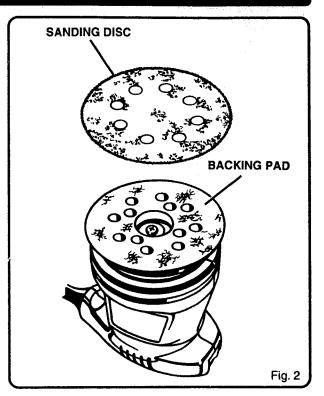
See Figure 2.

The backing pad on your sander accepts pressure sensitive adhesive backed sanding discs. Therefore, you must only use pressure sensitive adhesive backed sanding discs with this sander.

1. Unplug your sander.

WARNING: FAILURE TO UNPLUG YOUR SANDER COULD RESULT IN ACCIDENTAL STARTING CAUSING POSSIBLE SERIOUS PERSONAL INJURY.

- 2. Carefully peel adhesive backing from new sanding disc.
- 3. Align holes in sanding disc with holes in backing pad, then carefully press sticky side of disc against pad as tight as posssible.



WARNING: BEFORE CONNECTING YOUR SANDER TO POWER SUPPLY SOURCE, ALWAYS CHECK TO BE SURE SWITCH IS NOT IN "ON" POSITION. FAILURE TO DO SO COULD RESULT IN ACCIDENTAL STARTING OF YOUR SANDER RESULTING IN POSSIBLE SERIOUS INJURY.

OPERATION

WARNING: ALWAYS WEAR SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS WHEN OPERATING YOUR SANDER. FAILURE TO DO SO COULD RESULT IN OBJECTS BEING THROWN INTO YOUR EYES. RESULTING IN POSSIBLE SERIOUS INJURY. IF THE SANDING OPERATION IS DUSTY ALSO WEAR A FACE OR DUST MASK.

PREPARING FOR OPERATION

CAUTION: Be careful not to let your hand cover the air vents.

TO OPERATE

Clamp or otherwise secure the work to prevent it from moving under your sander.

. 1

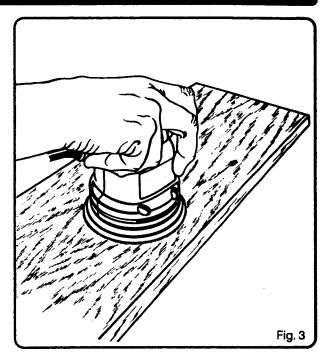
WARNING: UNSECURED WORK COULD BE THROWN TOWARDS THE OPERATOR CAUSING INJURY.

SANDING

See Figure 3.

Place sander on workpiece so that all of sanding disc surface is in contact with workpiece. Start your sander and move it slowly over workpiece making successive passes in parallel lines, circles, or crosswise movements. Upon completion of sanding operation, turn sander off and wait until sanding disc comes to a complete stop before removing from workpiece.

DO NOT FORCE. The weight of the unit supplies adequate pressure, so let the sanding disc and sander do the work. Applying additional pressure only slows the motor, rapidly wears sanding disc and greatly reduces sander speed. Excessive pressure will overload the motor causing possible damage from motor overheating and can result in inferior work. Any finish or resin on wood may soften from the frictional heat. Do not allow sanding on one spot too long as sander's rapid action may remove too much material, making the surface uneven.



WARNING: DO NOT WEAR LOOSE CLOTHING OR JEWELRY WHEN OPERATING SANDER. THEY COULD GET CAUGHT IN MOVING PARTS CAUSING SERIOUS INJURY. KEEP HEAD AWAY FROM SANDER AND SANDING AREA. HAIR COULD BE DRAWN INTO SANDER CAUSING SERIOUS INJURY.

MAINTENANCE

WARNING: WHEN SERVICING USE ONLY IDENTICAL CRAFTSMAN REPLACEMENT PARTS. USE OF ANY OTHER PARTS MAY CREATE A HAZARD OR CAUSE PRODUCT DAMAGE.

GENERAL

Only the parts shown on parts list, page 11, are intended to be repaired or replaced by the customer. All other parts represent an important part of the double insulation system and should be serviced only by a qualified Sears service technician.

Avoid using solvents where cleaning plastic parts. Most plastics are susceptible to various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, carbon dust, etc.

WARNING: DO NOT AT ANY TIME LET BRAKE FLUIDS. GASOLINE. PETROLEUM-BASED PROD-UCTS. PENETRATING OILS, ETC. COME IN CON-TACT WITH PLASTIC PARTS. THEY CONTAIN CHEMICALS THAT CAN DAMAGE, WEAKEN, OR DESTROY PLASTIC.

When electric tools are used on fiberglass boats, sports cars, wallboard, spackling compounds, or plaster, it has been found that they are subject to accelerated wear and possible premature failure, as the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutator, etc. Consequently it is not recommended that this tool be used for extended work on any fiberglass material, wallboard, spackling compounds, or plaster. During any use on these materials, it is extremely important that the tool is cleaned frequently by blowing with an air jet.

WARNING: ALWAYS WEAR SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS DUR-ING POWER TOOL OPERATION OR WHEN BLOW-ING DUST. IF OPERATION IS DUSTY ALSO WEAR A DUST MASK.

EXTENSION CORDS

The use of any extension cord will cause some loss of power. To keep the loss to a minimum and to prevent tool overheating, use an extension cord that is heavy enough to carry the current the tool will draw. Follow the recommended cord sizes on the chart provided to determine the minimum wire size required in an extension cord.

Extension Cord Length	Wire Gauge Size (A.W.G.)	
25-50 FEET	18	
50-100 FEET	16	

When working with your tool outdoors, use an extension cord suitable for outdoor use and so marked. Outdoor use extension cords are marked with the letters "WA" on the cord's jacket.

CAUTION: Keep extension cords away from the sanding area and position the cord so that it will not get caught on lumber, tools, etc., during sanding operation.

WARNING: CHECK EXTENSION CORDS BEFORE EACH USE. IF DAMAGED REPLACE IMMEDIATELY. NEVER USE TOOL WITH A DAMAGED CORD SINCE TOUCHING THE DAMAGED AREA COULD CAUSE ELECTRICAL SHOCK RESULTING IN SERIOUS INJURY.

LUBRICATION

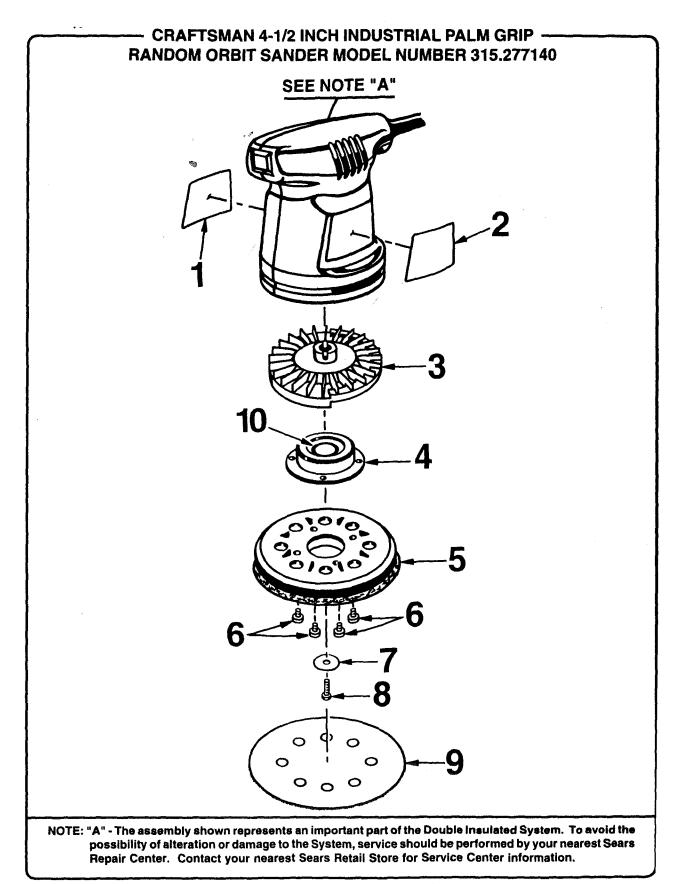
All of the bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. Therefore, no further lubrication is required.

NOTES

والمراجع			
.1			
			ويستعمل والمستحين والمتعالي والمتعالية والمتعالية والمتعالية والمتعالية والمتعالية والمتعالية والمتعا
		<u> </u>	······································
	- 5 ⁴		
	1		
		· · · · · · · · · · · · · · · · · · ·	
·	·····		
	·····		
	anaa yaa milaanii ahay ji guyaa ya dhikii yi kilada dhikii yaa yaa yaa nii yaa ayaa milaa yaa ahay aa dha	ayar-arayan waxaa da d	
Darry may may sumption of the string of the		and the second	
ور من ور بار بار المحمد بين من المحمد ال	an a		a da manana ana amin'ny sarana amin'ny fanana amin'ny fanana amin'ny sarana amin'ny sorana amin'ny sorana amin'
	ມີ ແລະ ເຊິ່ງ ເປັນ ແລະ ເປັນ ເຊິ່ງ ເຊິ່ງ ເຊິ່ງ ແລະ ແລະ ເຊິ່ງ ເຊິ່ງ ແລະ		<u>, and a second s</u>

NOTES

·····					
		مية ^و تشادير بدين _{ال} يد محمد <u>المعرب بي المك</u> ان الألف			هدواري والمستخلف المتشارين التشويري
	2°	. ¢			
			,,		معادمين وجمعهم والكنشين والبويدين
	*				
					,
		ويرد البالي والمربية الفيافة ومسمية البقائل			
·····					
······································					
The second state of the se					
					······································
	<u></u>				
				· · · · · · · · · · · · · · · · · · ·	
		and a subscription of the	وبالمتحدة وبالمحدوق والمحارك والمتعادة	محبوب والمتعارب والمتعاد	ىرىنى مەركىيىتى بىرىمىيى بىرىمىيى مەركىيى مەركىيى بىرىمىيى بىرىمىيى بىرىمىيى بىرىمىيى بىرىمىيى بىرىمى بىرىمى ب مىلىكى بىرىمىيى بىرىمى
	لنسوي بدروبالكانك فاشتجعو	นี้สามารุญัญและครองกำระบ ⁷²⁴ เหร็ญสามารรณแระไปให้ได้จัดการร		مدلورید میساند از بر رواند میکننی زیر رواند است. مراجع از مسیر میکند از میکند ا	an than an tagan in an tan ta an tagan an tan an a
			ىرى		ويستشدون والمستقبل والإرجاب أتحمه والمرجوع والقار والمستو
₲ <mark>₶₶₷₶₶₺₺₡₺₺₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽</mark>			نظر <u>میں بندید بر میں میں میں م</u> ارک میں اور		ana ang mga ng mga n
۲۰۰۰ میلاند. ۱۹۹۴ که است. ۲۰۰۰ میلاند از ۲۰۰۰ میلاند از ۲۰۰۰ میلاند از ۲۰۰۰ میلاند از ۲۰۰۰ میلاند. ۲۰۰۰ میلاند از ۲۰۰۰ میلان	ang particular stranger and	والمستحدين والمستوافع والمستحسبين والمستحسبين	فالشمي والمتراجع والمراجع والمراجع والمراجع والمراجع		



Page 10

---- CRAFTSMAN 4-1/2 INCH INDUSTRIAL PALM GRIP ----RANDOM ORBIT SANDER MODEL NUMBER 315.277140

The model number will be found on a plate attached to the motor housing. Always mention the model number in all correspondence regarding your **SANDER** or when ordering repair parts.

SEE BACK PAGE FOR PARTS ORDERING INSTRUCTIONS

PARTS LIST

Key No.	Part Number	Description Quan.
1	971893-001	Logo Plate1
2	971892-001	Data Plate1
3	971276-001	Fan 1
4	970214-000	Bearing Cap w/Bearing (Inc. Key No. 10) 1
5	971790-002	Backing Pad1
6	998586-002	* Screw (#10-32 x 3/8 In. Pan Hd.)
7	968347-001	Washer 1
8	969649-001	Screw
		(#8-32 x 1/2 In. Pan Hd. Left Hand) 1
9	***	Sanding Disc:
	***	150 Grit Fine Item No. 9-283745
	***	100 Grit Medium Item No. 9-283755
	***	60 Grit Coarse Item No. 9-28376 4
10	969655-001	Ball Bearing (NTN#6002LLU)
	972000-246	Owner's Manual

* Standard Hardware Item - May Be Purchased Locally

*** Complete Assortment Available At Your Nearest Sears Retail Store

Page 11

SEARS OWNER'S MANUAL	
MODEL NO. 315.277140 HOW TO ORDER REPLACEMENT PARTS	
IF YOU NEED REPAIR SERVICE OR PARTS: FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER: 1-800-4-REPAIR (1-800-473-7247) FOR REPLACEMENT PARTS INFORMATION AND ORDERING, CALL THIS TOLL FREE NUMBER: 1-800-FON-PART (1-800-366-7278)	

CRAFTSMAN® 4-1/2 Inch Industrial Palm Grip Random Orbit Sander Double Insulated

The model number of this tool will be found on a plate attached to the motor housing.

WHEN ORDERING REPLACEMENT PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PARTNUMBER
- PART DESCRIPTION
- MODEL NUMBER 315.277140
- NAME OF ITEM
 4-1/2 In. Industrial Palm Grip
 Random Orbit Sander

All parts listed may be ordered from any Sears Service Center and most Sears Stores.

SEARS, ROEBUCK AND CO., Hoffman Estates, IL 60179