612547-329

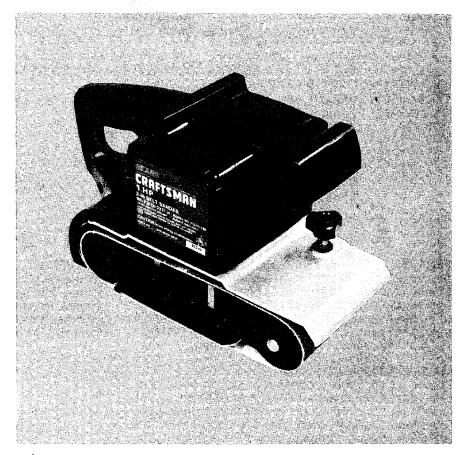


OWNERS MANUAL

MODEL NO. 315.117130

CAUTION: Read Rules for Safe Operation and Instructions Carefully

SAVE THIS MANUAL FOR FUTURE REFERENCE



# **CRAFTSMAN**° 3 INCH BELT SANDER DOUBLE INSULATED

Introduction Operation Maintenance Repair Parts



Designed exclusively for and sold only by SEARS, ROEBUCK AND CO., Dept. 698/731A, Sears Tower, Chicago, IL 60684

612547-329 10-86 PRINTED IN U.S.A.

#### FULL ONE YEAR WARRANTY ON CRAFTSMAN BELT SANDER

If this Craftsman Belt Sander fails to give complete satisfaction within one year from the date of purchase RETURN IT TO THE NEAREST SEARS STORE THROUGHOUT THE UNITED STATES and Sears will repair it, free of charge.

If this belt sander is used for commercial or rental purposes this warranty applies for only 90 days from the date of purchase.

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

SEARS, ROEBUCK AND CO. DEPT. 698/731A SEARS TOWER CHICAGO, IL 60684

### INTRODUCTION

#### GENERAL

Your Craftsman 3-Inch Belt Sander is suitable for coarse, medium and fine sanding of wood, metals, plastics and other materials. It is ideal when used for smoothing rough boards, chamfering, rounding edges and many other general sanding applications. Its balanced design makes it easy to use.

#### DOUBLE INSULATION

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 the internal metal motor components with protecting insulation.

RULES FOR SAFE OPERATION

WARNING — DO NOT ATTEMPT TO OPERATE THIS TOOL UNTIL YOU HAVE READ THOROUGHLY AND UNDERSTAND COMPLETELY ALL INSTRUCTIONS, RULES, ETC. CONTAINED IN THIS MANUAL. FAILURE TO COMPLY CAN RESULT IN ACCIDENTS INVOLVING FIRE, ELECTRIC SHOCK, OR SERIOUS PERSONAL INJURY. SAVE OWNERS MANUAL AND REVIEW FREQUENTLY FOR CONTINUING SAFE OPERATION, AND INSTRUCTING POSSIBLE THIRD-PARTY USERS.

#### **READ ALL INSTRUCTIONS**

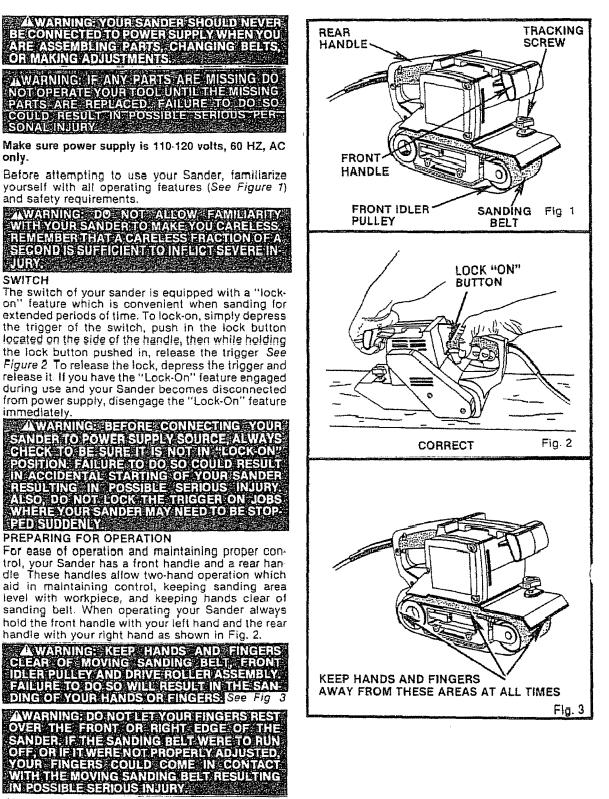
- 1. KNOW YOUR POWER TOOL Read owner's manual carefully. Learn its applications and limitations as well as the specific potential hazards related to this tool.
- 2. GUARD AGAINST ELECTRICAL SHOCK BY PREVENTING BODY CONTACT WITH GROUNDED SURFACES. For example: Pipes, radiators, ranges, refrigerator enclosures.
- 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 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.

**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, return the tool to your nearest Sears store for repair which will be done with original factory replacement parts.

#### **RULES FOR SAFE OPERATION (Continued)**

- 10. WEAR PROPER APPAREL. No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors. Also, wear protective hair covering to contain long hair.
- 11. USE SAFETY GLASSES with all tools. Also face or dust mask if cutting operation is dusty.
- 12. DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- 13. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- 14. **DON'T OVERREACH.** Keep proper footing and balance at all times. Do not use on a ladder or unstable support.
- 15. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 16. **DISCONNECT TOOLS.** When not in use, before servicing, or when changing attachments, blades, bits, cutters, etc., all tools should be disconnected.
- 17. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- 18. AVOID ACCIDENTAL STARTING. Don't carry plugged-in tools with finger on switch. Be sure switch is off when plugging in.
- 19. 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.
- 20. **NEVER USE THIS OR ANY POWER SANDER FOR WET SANDING.** Failure to comply can result in electrical shock causing serious injury or worse.
- 21. KEEP HANDS AND FINGERS AWAY FROM SANDING AREA AND MOVING SANDING BELT.
- 22. **NEVER USE IN AN EXPLOSIVE ATMOSPHERE.** Normal sparking of the motor could ignite fumes.
- 23. INSPECT TOOL CORDS PERIODICALLY and if damaged, have repaired at your nearest Sears Repair Center. Stay constantly aware of cord location.
- 24. INSPECT EXTENSION CORDS PERIODICALLY and replace if damaged.
- 25. 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.
- 26. STAY ALERT. Watch what you are doing and use common sense. Do not operate tool when you are tired. Do not rush.
- 27. 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.
- 28. **DO NOT USE TOOL IF SWITCH DOES NOT TURN IT ON AND OFF.** Have defective switches replaced by authorized service center.
- 29. Inspect for and remove all nails from lumber before sanding.
- 30. DRUGS, ALCOHOL, MEDICATION. Do not operate tool while under the influence of drugs, alcohol, or any medication.
- 31. SAVE THESE INSTRUCTIONS. Refer to them frequently and use them to instruct third party users. If you loan someone your Sander, loan them these instructions also.

### **OPERATION**

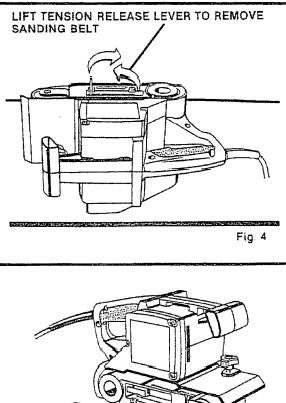


Always operate your Sander as shown in Fig 2.

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### **OPERATION**

Selecting the correct size and type sanding belt is an important step in achieving a high quality sanded finish. Standard 3 inch x 21 inch sanding belts made of aluminum oxide, silicone carbide, and other synthetic abrasives are best for power sanding. In general, coarse grit will remove the most material and fine grit will produce the smoothest finish in all sanding operations. The condition of the surface to be sanded will determine which grit belt will do the job. If the surface is rough, start with a coarse grit belt sanding until surface is uniform. Medium grit belt may then be used to remove scratches left by the coarser belt and fine grit belt used for finishing of the surface. Always continue sanding with each grit belt until the surface is uniform



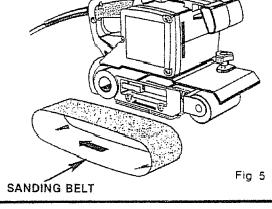


#### INSTALLING AND ADJUSTING SANDING BELT

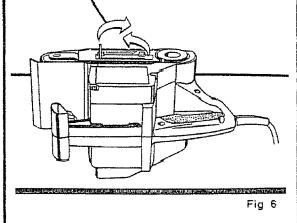
#### DISCONNECT SANDER FROM POWER SUPPLY WHILE ASSEMBLING PARTS OR MAKING AD-JUSTMENTS.

To release the sanding belt, lift tension release lever straight up as shown in figure 4. When sufficient force is exerted, the spring will be compressed allowing the pulley to lock in a rear position. This frees the sanding belt so it can be removed. Install new belt making sure arrow inside of belt is pointing in the direction of rotation, which is clockwise when looking into open side of sander. See Fig. 5. Roughly align the belt to its correct position, then release tension on pulley. Release tension by lowering tension release lever as shown in Figure 6. The pulley will snap back into operating position.





LOWER TENSION RELEASE LEVER TO SECURE



Page 5

#### ALWAYS WEAR SAFETY GLASSES OR EYESHIELDS WHEN OPERATING YOUR SANDER.

To adjust sanding belt, connect Sander to power supply. Place Sander in upside down position as shown in Figure 7. NOTE: This position is for adjustments only. The Sander is not in an operating position. Pull switch trigger and release immediateiy. Observe tracking of sanding belt. If the sanding belt runs inward, turn the tracking screw clockwise. If the sanding belt runs outward, turn the tracking screw counterclockwise. This should be done until you are sure belt will not run off sander, or come in contact with internal parts. After installing a new sanding belt, it may become necessary to change the adjustment several times until the belt becomes pliable.

WARNING: IF SANDING BELT BEGINS TO WEAR EXCESSIVELY ON THE INNER EDGE, RE-ADJUST TRACKING SCREW. IT IS ADJUSTED TOO FAR IN-WARD AND THE SANDING BELT IS RUBBING AGAINST INTERNAL PARTS. When you are sure the belt will not rub against internal parts, start your Sander and fine adjust the tracking screw until the belt stabilizes. See Figure 8.

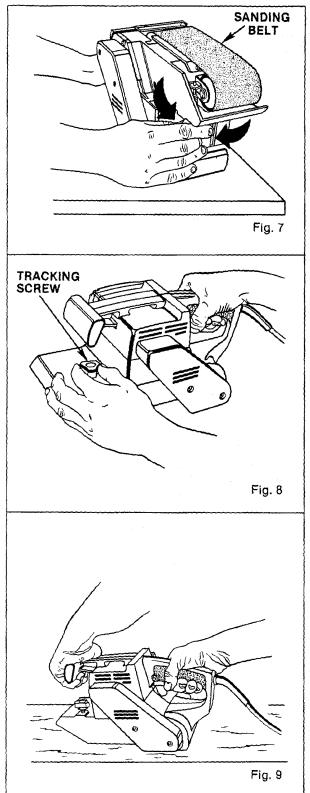
When correctly adjusted, the outer edge of the belt will be even with the outer edge of the base of your Sander. Belt life will be greatly increased if a few seconds are spent adjusting the belt tracking.

WARNING: KEEP HANDS AND FINGERS AWAY FROM MOVING SANDING BELT. ANY PART OF YOUR BODY COMING IN CONTACT WITH MOVING BELT COULD RESULT IN SERIOUS INJURY. DO NOT WEAR LOOSE CLOTHING OR JEWELRY WHEN OPERATING YOUR SANDER. THEY COULD GET CAUGHT IN MOVING PARTS AND FOREIGN OBJECTS COULD GET THROWN AWAY FROM SANDER CAUSING INJURY.

#### TO OPERATE

Clamp or otherwise secure the work to prevent it from moving under your Sander. WARNING: UNSECURED WORK COULD BE THROWN BACK TOWARD OPERATOR CAUSING INJURY. Before placing Sander on work surface, squeeze the trigger switch and let the motor reach its maximum speed, then lower your Sander to the work surface with a slight forward motion. Using the rear handle to control your Sander and the front handle only to guide it. move it slowly over the work. See Fig. 9. Allowing your Sander to remain in one place will result in an uneven surface. WARNING: KEEP A FIRM GRIP ON SANDER WITH BOTH HANDS AT ALL TIMES. FAILURE TO DO SO COULD RESULT IN LOSS OF CONTROL LEADING TO POSSIBLE SERIOUS IN-JURY. Your Sander was designed to provide the proper weight on the sanding belt. Extra pressure will result in uneven work, clogged belts, and possible motor burnout. NOTE: The front roller of your sander was not designed for contour sanding. Sanding on the front roller could cause irregularity in sanding belt tracking.

Use a coarse belt when heavy cutting is desired, not heavy pressure. The importance of this cannot be over-emphasized. The weight has been built into the tool to give the most efficient pressure at the proper location.





### MAINTENANCE

#### WHEN SERVICING USE ONLY IDENTICAL REPLACEMENT PARTS.

#### TIMING BELT REPLACEMENT

DISCONNECT SANDER FROM POWER SUPPLY BEFORE SERVICING

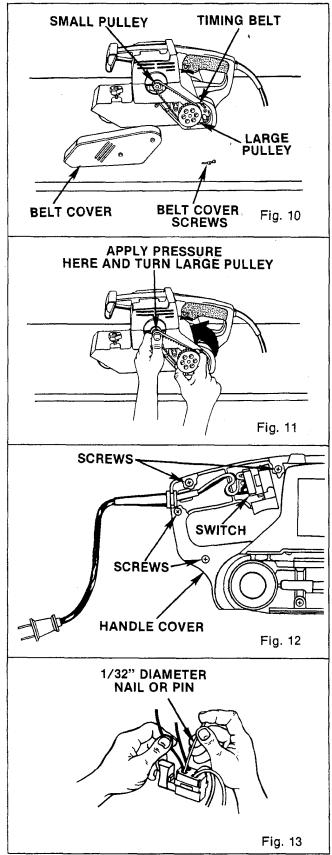
WHEN REPLACING TIMING BELT, USE REPLACE-MENT BELT NUMBER 989368-000 ONLY. See Key Number 5 on Parts List, Page 11.

- 1. Remove sanding belt from sander. See installing and adjusting sanding belt, Page 5. NOTE: REMOVING THE SANDING BELT WILL SIMPLIFY THE PROCESS OF INSTALLING YOUR NEW TIMING BELT.
- 2. Remove the two belt cover screws. Then remove the belt cover. See Key Numbers 1 and 2 on exploded view and/or parts list, pages 10 and 11.
- 3. Force old belt from small pulley with a screwdriver and remove it from large pulley. If it is worn out, simply cut the old belt and remove it.
- 4. Install new belt over large pulley first. See Figure 10.
- 5. Holding the belt as shown in Figure 11, press the belt onto the small pulley. NOTE: TO SIMPLIFY THE PROCESS, TURN THE LARGE PULLEY AS YOU PRESS THE BELT ONTO THE SMALL PULLEY.
- 6. Reassemble belt cover and screws.

#### SWITCH REPLACEMENT

DISCONNECT THE SANDER FROM POWER SUPPLY WHILE REPLACING PARTS OR MAKING ADJUSTMENTS.

- Remove the handle cover and screws. NOTE THE LOCATIONS OF ALL WIRING IN THE HANDLE AND HOW EACH CONNECTION IS MADE TO THE SWITCH. Connections and wiring position must be identical when installing the new switch. See Figure 12.
- 2. Lift the switch away from the handle, then release the leads to the switch by inserting a 1/32" diameter pin or nail into each switch lead receptacle. See Figure 13.
- 3. Make the lead connections to the new switch by pushing each lead as far as possible into the switch lead receptacles. Pull on leads to check lead connections with lead receptacles.
- 4. Arrange the wiring in the handle so that it will not be pinched when the handle cover and screws are replaced, then position the switch in place. See Figure 12.
- 5. Place the cord and bend relief in their correct locations. See Figure 12.
- 6. Replace handle cover and screws.
- 7. Tighten all screws securely.

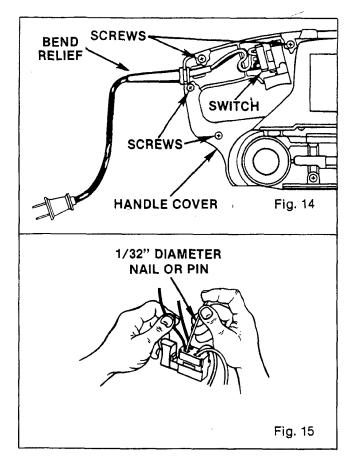




#### CORD REPLACEMENT

## DISCONNECT THE SANDER FROM POWER SUPPLY WHILE REPLACING PARTS OR MAKING ADJUSTMENTS.

- 1. Remove handle cover and screws as described on Page 7. Note the locations of all wiring in the handle and how each connection is made to the cord. Connections and wiring position must be identical when installing the new cord. See Figure 14.
- 2. Remove the switch from the handle and disconnect the cord leads from the switch. See Figure 15.
- 3. Remove the bend relief from old cord and place it on the new one.
- Push each lead of the new cord as far as possible into the proper switch lead receptacles. Pull on leads to check lead connections with lead receptacles.
- 5. Arrange the wiring in the handle so that it will not be pinched when handle cover and screws are replaced. Position the switch in place. See Figure 14.
- 6. Place the bend relief and cord in their correct locations, then replace handle cover and screws.
- 7. Tighten all screws securely.



#### GENERAL

Only the parts shown on parts list, page eleven, 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 service technician.

Avoid using solvents when 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 PRO-DUCTS, PENETRATING OILS, ETC. COME IN CON-TACT WITH PLASTIC PARTS. THEY CONTAIN CHEMICALS THAT CAN DAMAGE, WEAKEN, AND/OR DESTROY PLASTIC. When electric tools are used on fiberglass boats, sports cars, etc., 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. During any use on fiberglass it is extremely important that the tool is cleaned frequently by blowing with an air jet. ALWAYS WEAR SAFETY GLASSES OR EYE SHIELDS BEFORE BEGINNING POWER TOOL OPERATION OR BLOWING DUST.

#### LUBRICATION

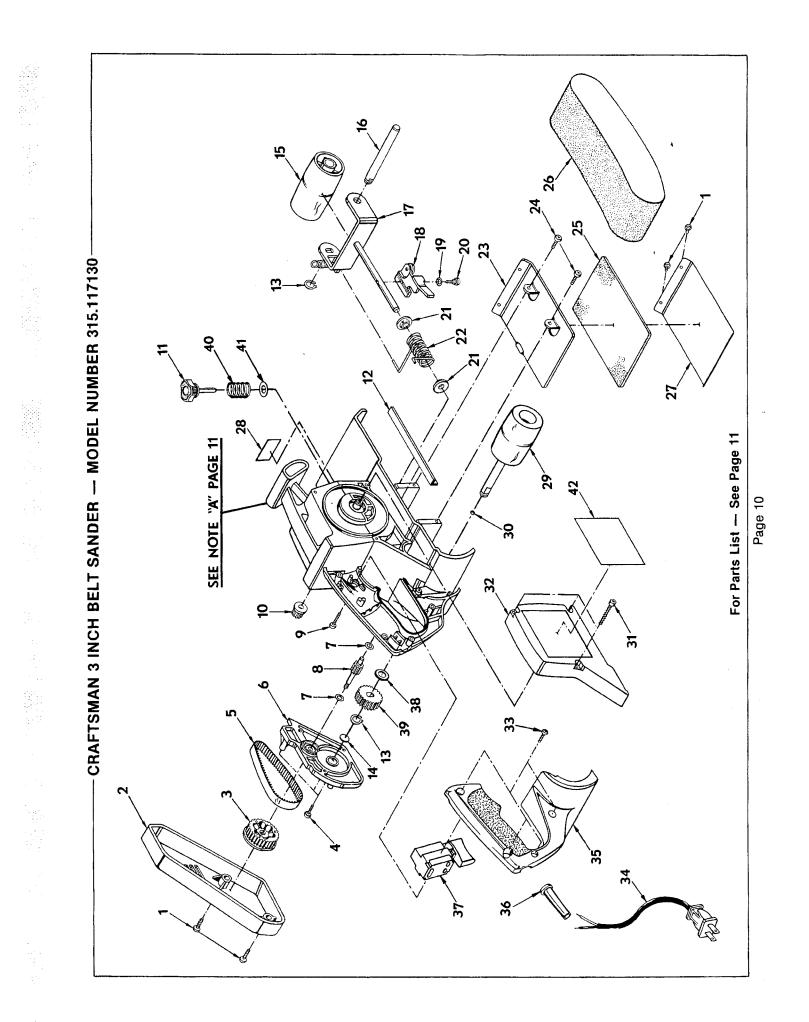
All the bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions, therefore, no further lubrication is required.

#### **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, follow the recommended cord sizes on the chart at right. When tool is used outdoors, use only extension cords suitable for outdoor use and so marked. Extension cords are available at Sears Catalog Order or Retail Stores.

Extension Cord Length	Wire Size A.W.G.
25-50 Ft.	16
50-100 Ft.	14
WARNING: CHECK EXTENSIO EACH USE. IF DAMAGED, REPL NEVER USE TOOL WITH A DAM TOUCHING THE DAMAGED AI ELECTRICAL SHOCK RESULTI JURY.	ACE IMMEDIATELY. IAGED CORD SINCE REA COULD CAUSE

CORDILOUR	RE AVAILABLE AT THE TIME THIS MAN		
Cat. No. <u>9</u> 2595 CARRYING CASE	CLOTH BACKED SANDING BELTS	POLYESTER BACKED SANDING BELT	
Carrying Case Cat. No. 9 14703	Cat. No. 9 22304-X-Fine	Cat. No. 9 23201-X-Fine	
Cal. 110. <u>5</u> 14/00	Cat. No. 9 22301-Fine	Cat. No. 9 23202-Fine	
	Cat. No. 9 22302-Medium	Cat. No. 9 23203-Medium	
CRAFTSMAN	Cat. No. 9 22303-Coarse	Cat. No. 9 23204-Coarse	
	Cat. No. $\overline{9}$ 22305-X-Coarse	Dustless Sanding Attachment <u>9</u> 11766	
CAUTION: The use of attachments or accessories not listed above might be hazardous.			
	NOTES		
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Steel Ball.....1 \*Screw (#8-10 x 1-1/8" Fil. Hd.).....3 -ogo Plate.....2 'Screw (#10-32 x 1/2'' Pan Hd. T.F.).....2 Backing Pad.....1 Sanding Belt (3'' x 21'').....1 End Cap.....1 \*Screw (#8-10 x 5/8'' Pan Hd.).....7 Torsion Spring.....1 Wear Plate.....1 Data Plate.....1 Drive Roller Assembly.....1 Cord..... Bend Relief..... Thrust Washer..... Handle Cover..... Switch..... Spring QUAN. . . . . . . . . . . . . . . . . . . NOTE: "A" — The assembly shown represents an important part of the Double Insulated System. To avoid the possibility of alter-ation or damage to the system service should be performed by your nearest Sears Repair Center. Contact your nearest Catalog Order or Retail Store. \*\*\*Sancting Belts in assorted grits for both sanding wood and metal may be obtained from your nearest Sears Catalog Order or Retail Store. DESCRIPTION Platen ..... Owner's Manual CRAFTSMAN 3 INCH BELT SANDER — MODEL NUMBER 315.117130 The Model Number will be found on a plate attached to the End Cap of your Sander. Always mention the Model Number in all correspondence regar-SEE BACK PAGE FOR PARTS ORDERING INSTRUCTIONS ding your CRAFTSMAN SANDER or when ordering repair parts. NUMBER 703774-003 617966-009 990493-006 706239-808 998376-002 612665-005 616247-001 931744-818 612547-329 998371-001 998378-001 998380-001 999460-001 999942-001 989592-001 999932-001 999929-001 613651-001 998895-001 998368-001 999463-001 PART \* \* \* PARTS LISI KEY NO. Page 11 Screw (#8-32 x 3/8" Pan Hd. T.C.).....4 Screw (#8-32 x 3/8"' Fil. Hd.).....3 Retaining Ring.....2 Thrust Washer.....1 Idler Roller W/Bearings.....1 Bushing .....2 Pulley .....1 Tracking Knob.....1 Screw (#10-32 x 1/2" Pan Hd.)....1 QUAN. Driven Pulley.....1 Timing Belt.....1 Gear Housing Cover w/Bearing.....1 Idler Roller Shaft.....1 Belt Cover..... Wear Strip.....1 Yoke Assembly W/Spring.....1 Release Lever Assembly....1 \*Standard Hardware Item — May Be Purchased Locally \*\*Available From Div. 98 — Source 980.00 DESCRIPTION PART NUMBER 726693-020 610122-003 **507776-002** 998366-004 703493-809 726693-004 989366-000 999448-003 607461-002 616103-802 998373-002 999954-002 999945-004 989368-000 998423-002 998372-001 998367-001 999927-001 622347-001 999923-001 998370-001 ×ñ Nov N 0 **4 5 0 N 8 0** 2 5 F 18 213

<b>SEARS</b> OWNERS MANUAL	CRAFTSMAN <sup>®</sup> 3 INCH BELT SANDER DOUBLE INSULATED
SERVICE	Now that you have purchased your Belt Sander, should a need ever exist for repair parts or service, simply contact any Sears Service Center and most Sears, Roebuck and Co. stores. Be sure to provide all pertinent facts when you call or visit.
MODEL NO. 315.117130	The model number of your Belt Sander will be found on the plate located on the side of your sander.
HOW TO ORDER REPAIR PARTS	WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:
	<ul> <li>PART NUMBER</li> <li>MODEL NUMBER 315.117130</li> <li>PART DESCRIPTION</li> <li>NAME OF ITEM 3" Belt Sander</li> </ul>
	All parts listed may be ordered from any Sears Ser- vice Center and most Sears stores.
	If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for handling.

SEARS, ROEBUCK AND CO., Dept. 698/731A, Sears Tower, Chicago, IL 60684