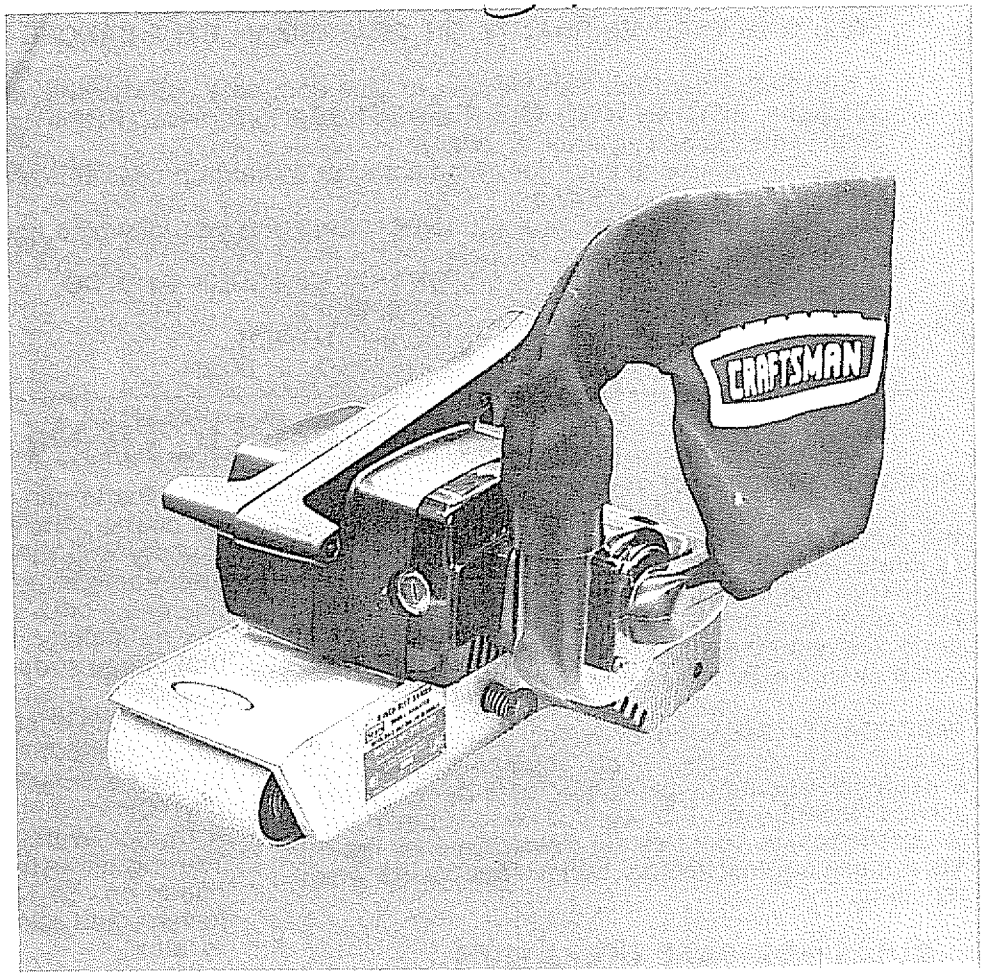
Sears

OWNERS MANUAL

MODEL NO. 315.11782

CAUTION: Read Rules for Safe Operation and Instructions Carefully



CRAFTSMAN®

4 INCH BELT SANDER WITH DUST PICK-UP

DOUBLE INSULATED

Introduction
Operation
Maintenance
Repair Parts

Designed exclusively for and sold only by
SEARS, ROEBUCK AND CO., Chicago, IL 60684 U.S.A. and SIMPSONS-SEARS LIMITED, Toronto, Canada

2-620263-965
7-78

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 replace 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.
BSC 41 - 3
SEARS TOWER
CHICAGO, IL 60684

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 the 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.

Your Craftsman 4-inch Dustless 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. It is ideal for refinishing large pieces of furniture, stairs and other large surfaces. Its balanced design makes it easy to use.
The built-in dust collection system will remove most of the sanding dust from the work and eliminate the dust in the air — usually associated with power sanding.

SWITCH
A trigger switch controls operation of the Sander. The trigger switch can be locked on for continuous operation. To lock, pull trigger, press lock button inward, and release trigger. Pull trigger and release to stop.

RULES FOR SAFE OPERATION

1. **KNOW YOUR POWER TOOL** — Read owner's manual carefully. Learn its applications and limitations as well as the specific potential hazards peculiar to this tool.
2. **GROUND ALL TOOLS — UNLESS DOUBLE-INSULATED.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If adapter is used to accommodate two-prong receptacle, the adapter wire must be attached to a **known** ground. (Usually the screw securing receptacle cover plate). **Never** remove third prong.
3. **KEEP GUARDS IN PLACE** and in working order.
4. **KEEP WORK AREA CLEAN.** Cluttered areas and bencnes 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 be kept safe distance from work area.
7. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, high or locked-up place—out of reach of children.
8. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
9. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool.
10. **WEAR PROPER APPAREL.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
11. **USE SAFETY GLASSES** with most 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.
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; when changing attachments, blades, bits, cutters, etc.
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 and so marked

OPERATION

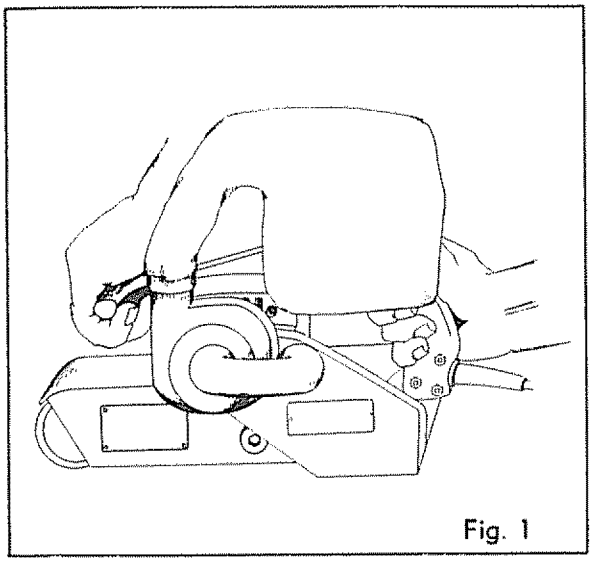


Fig. 1

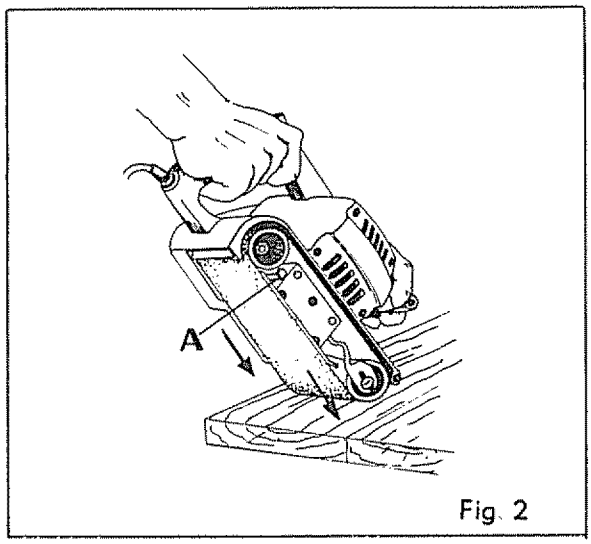


Fig. 2

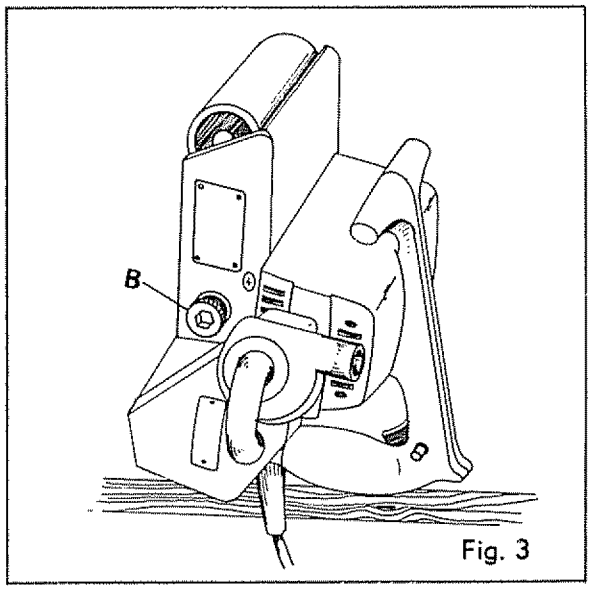


Fig. 3

PREPARING FOR OPERATION

Your Sander is equipped with its own built-in auxiliary handle located at the front of the unit. This handle allows for two-hand use which will aid in maintaining complete control and keeping sanding area level with work piece (See Fig. 1).

Selecting the correct size and type sanding belt is an extremely important step in achieving a high quality sanded finish. Aluminum oxide silicone carbide and other synthetic abrasives are best for power sanding.

In general, coarse grit will remove the most material and finer grit will produce best 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 finer grit belt used for finishing of the surface. Always continue sanding with each grit belt until surface is uniform.

INSTALLING AND ADJUSTING SANDING BELT

Be sure power cord is disconnected from power supply.

1. Release tension on belt by pushing the front pulley squarely against the top or edge of workbench (See Fig. 2). When the pulley is pushed back it will lock in that position, allowing slack in the belt so it can be removed. NOTE: Idler pulley rubbing housing when in the released position, without sandpaper, does not damage tool operation. The sanding belt, when assembled, will not allow pulley to project as far.
2. To install new belt, place belt over both pulleys, making sure that arrow on inside of belt is pointing in the direction of rotation which is clockwise when looking into open side of sander.
3. Make sure fingers are not in a position to get mashed. Pull hard on lever (A) until pulley is released and tension is applied to belt. The lever will move freely at first and then become harder to pull.
4. To adjust belt, connect sander to power supply. Stand sander on end as illustrated (See Fig. 3). Pull switch trigger and release immediately while observing tracking of belt.
5. If belt runs outward, turn tracking screw (B) clockwise and counterclockwise if belt runs inward. This should be done until you are sure belt will not come in contact with rub strip.
6. Start sander and fine adjust the tracking screw (B) until belt stabilizes. When correctly adjusted, the outer edge of the belt will be even with outer edge of wear plate.

   Note: Belt life will be increased if a few seconds are spent adjusting the belt tracking properly.

TO OPERATE

Clamp or otherwise secure the work to prevent it moving under the Sander. With Sander off work, press the trigger switch and when the motor reaches its maximum speed, lower the Sander on the work with a slight forward motion. Using the main handle to control the Sander and the front handle only to guide it, move it slowly over the work. Allowing the Sander to remain in one place will result in an uneven surface. The Sander was designed to provide the proper weight on the sand belt and extra pressure will only result in uneven work, slow cutting from slow belt speed, clogged belts and possible motor burn-out.

Use the proper 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.

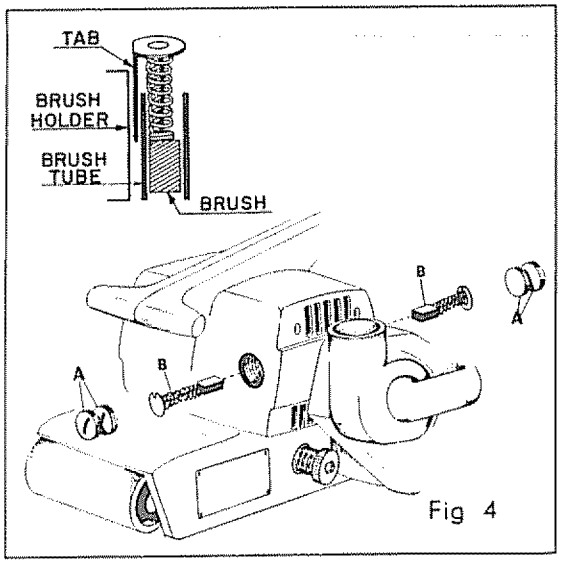


Fig 4

BRUSH REPLACEMENT

Disconnect sander from power supply.

1. Remove brush caps (A) with screwdriver. See Fig. 4.
2. Remove brushes (B).
3. Reassemble new brushes into sander, making sure tab on brush is inserted in opening between brush tube and brush holder and that the brush moves freely in the brush tube.
4. Replace brush caps.

TIMING BELT REPLACEMENT (SEE FIG. 5).

DISCONNECT SANDER FROM POWER SUPPLY.

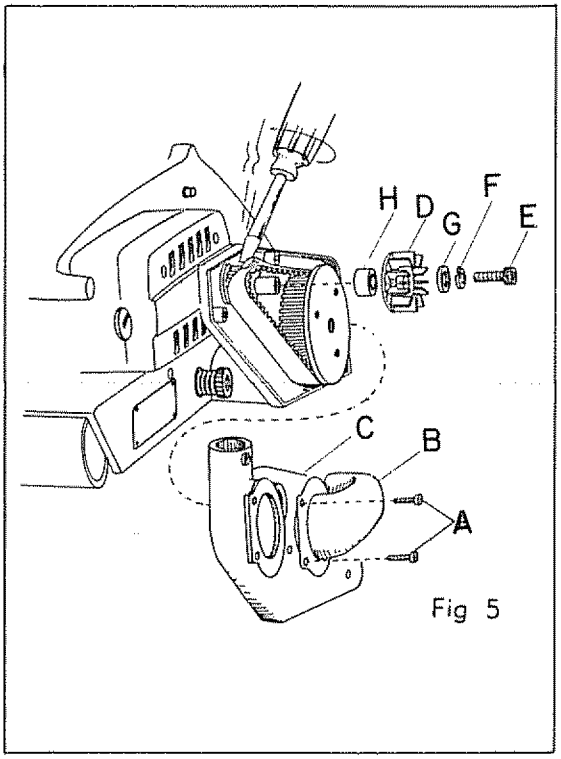
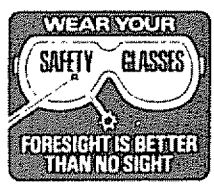


Fig 5

CAUTION — TO RETAIN ELECTRICAL INSULATION AND PROVIDE USER PROTECTION AS PROVIDED IN ORIGINAL DESIGN, ALL PARTS REMOVED MUST BE REASSEMBLED AND THE REPLACEMENT BELT MUST BE AN IDENTICAL REPLACEMENT PART.

1. Remove dust bag and two screws (A).
2. Remove blower coupling (B) by inserting a screwdriver between the blower housing (C) and blower coupling, this will expose the blower (D) within the blower housing.
3. Remove cap screw (E) by turning it **clockwise** with a 3/16" hexagonal key, this will permit washers (F) and (G) and the blower to be removed.
4. Remove four screws holding the cover and blower housing assembly to the belt housing and take it off the sander.
5. Note the position of spacer (H). This spacer may be removed or left on the shaft.
6. Force old belt off small pulley with a screwdriver and remove it from large pulley.
7. Install new belt over large pulley making sure teeth on belt mesh with teeth on pulley.
8. Press the belt onto the small pulley.
9. Clean the blower and dust passages before reassembling.
10. Reassemble all parts. Turn cap screw (E) **counterclockwise** to tighten. When reassembling blower coupling use caution not to over tighten screws.



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 glasses or eye shields before commencing power tool operation. We recommend Wide Vision Safety Mask for use over spectacles or standard safety glasses, available at Sears Retail or Catalog Stores.

GENERAL

DUST PICK-UP The dust bag assembly is slipped with a twisting motion over the blower exhaust. The bag may be turned toward the side as required for the operator's convenience. Although the bag is of ample size it should be emptied frequently to maintain the pick-up efficiency. The bag is emptied by grasping the fitting and twisting it off the blower exhaust. Opening the zipper at the bottom of the bag will allow complete cleaning. When sanding, some dust, paper, belt threads and etc. may collect on the blower and reduce the efficiency of the blower. To clean blower (See Fig. 5) remove screws (A) and blower housing coupling (B). Replace blower housing coupling (B) and screws (A). Do not over tighten screws (A).

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.

Only the parts shown outside Section A on page six are intended to be replaced by the customer. Parts listed in Section A 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.

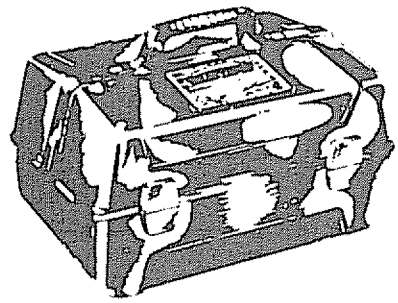
When electric tools are used on fiberglass boats, sports cars, etc., it has been found that they are subject to accelerated wear and possible premature failure, as the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutator,etc. Consequently it is not recommended that this tool be used for continuous production 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.

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. Extension cords are available at Sears Catalog Order or Retail Stores.

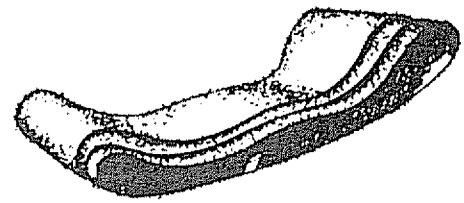
Extension Cord Length	Wire Size A. W. G.
25-50 Feet	14
50-75 Feet	12
75-100 Feet	10

THE FOLLOWING RECOMMENDED ACCESSORIES WERE AVAILABLE AT THE TIME THIS MANUAL WAS PRINTED.



CARRYING CASE
Cat No 9 1457C

CRAFTSMAN



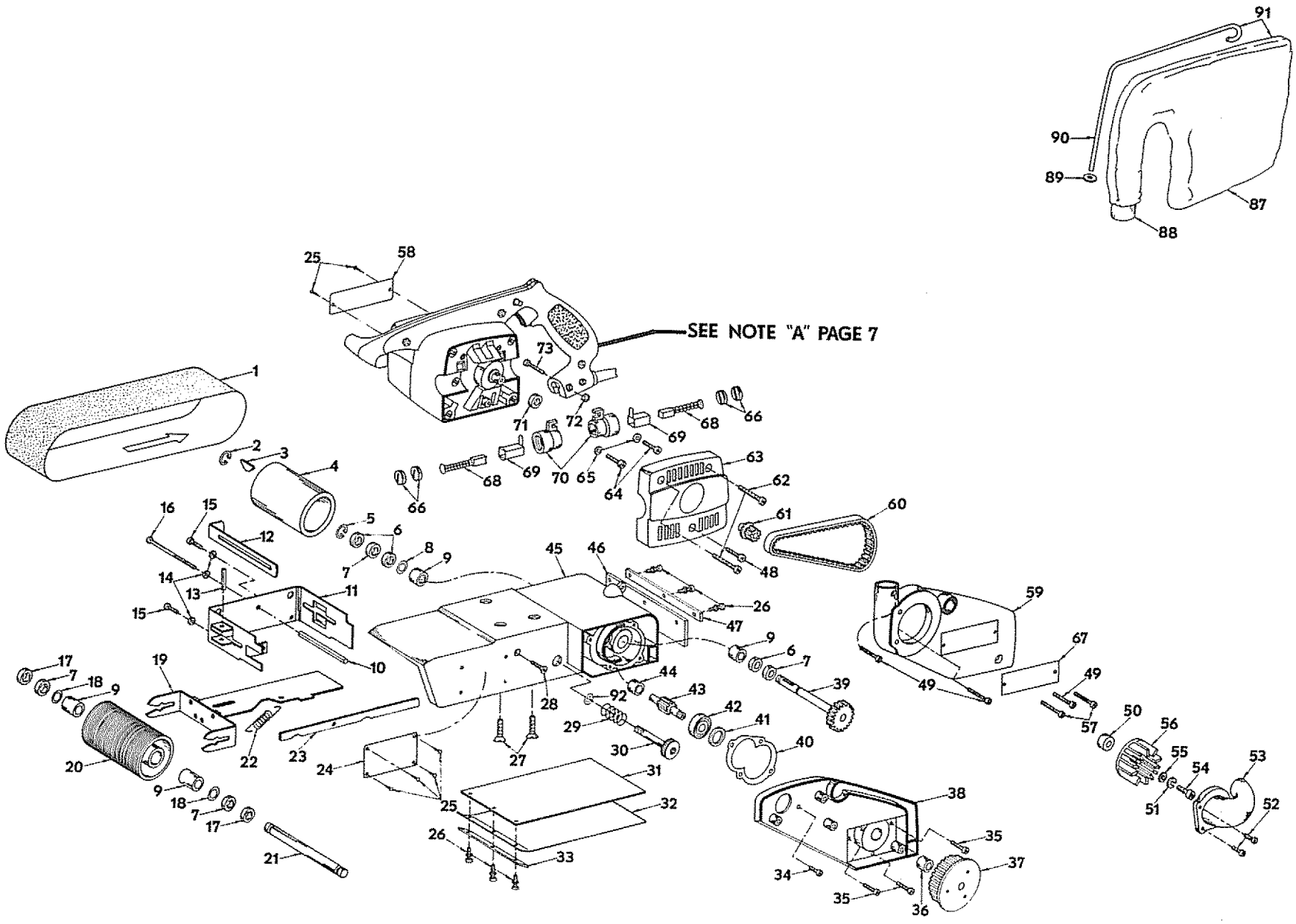
ASSORTED SANDING BELTS
Cat No 9 22332—X-Fine
Cat No 9 22333—Fine
Cat No 9 22334—Medium
Cat No 9 22335—Coarse
Cat No 9 22336—X-Coarse

CORD LOCK
Cat No 9 2595

Belts best for metal
Cat No 9 22337—Fine
Cat No 9 22338—Medium
Cat No 9 22339—Coarse

CAUTION: The use of attachments or accessories not listed above might be hazardous.

CRAFTSMAN 4 INCH BELT SANDER WITH DUST PICK-UP — MODEL NUMBER 315.11782



FOR PARTS LIST — SEE PAGE 7

CRAFTSMAN 4 INCH BELT SANDER WITH DUST PICK-UP — MODEL NUMBER 315.11782

The Model Number will be found on a plate attached to the Base. 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	***	Sanding Belts (4" x 24")	
2	1-607461-01	Retaining Ring	1
3	2-616452-03	Hi-Pro Key **STD580014	1
4	2-606712-02	Drive Pulley	1
5	1-622167-28	Retaining Ring	1
6	1-703493-803	Washer	3
7	1-622205-04	Thrust Bearing	4
8	1-622172-04	Shaft Seal	1
9	1-622149-92	Needle Bearing (Torrington B-87) **STD310807	4
10	1-611037-01	Spacer	1
11	4-611041-03	Yoke Support Bracket	1
12	2-611038-03	Yoke Release Lever	1
13	1-941401-36	Roll Pin **STD571812	1
14	1-703473-21	Lock Washer **STD551108	3
15	1-614658-04	*Screw (#8-32 x ½ Pan Hd.) **STD510805	2
16	1-614658-34	*Screw (#8-32 x 3¼ Pan Hd.)	1
17	1-622204-15	Spacer	2
18	1-622199-03	O-Ring	2
19	3-611050-02	Yoke and Slide Assembly	1
20	3-606723-04	Idler Pulley (Includes Two Key No. 9)	1
21	2-621766-00	Idler Pulley Shaft	1
22	1-622922-00	Spring	1
23	2-623245-00	Belt Rub Strip	1
24	2-612070-01	Data Plate	1
25	1-795247-06	Drive Screw	6
26	1-606124-01	*Screw (#6-20 x ½ Pan Hd. T.F.) **STD610605	6
27	1-622183-06	*Screw (¼-20 x ¾ Flat Hd.)	2
28	1-622183-02	*Screw (#10-24 x ⅜ Flat Hd.)	1
29	1-611036-01	Spring	1
30	1-607453-02	Tracking Screw	1
31	2-606995-01	Pad Backing	1
32	2-606970-01	Wear Plate	1
33	2-621764-00	Sander Pad Retainer	1
34	1-616081-12	*Screw (#8-18 x ⅜ Pan Hd. T.C.)	2
35	1-614658-10	*Screw (#8-18 x ⅜ Pan Hd.) **STD510803	3
36	1-606997-01	Spacer	1
37	2-621757-02	Driven Sprocket	1
38	4-606859-01	Belt Housing	1
39	2-607001-01	Gear with Shaft	1
40	2-606785-01	Gasket	1
41	2-621824-00	Grease Seal	1
42	1-621585-01	Ball Bearing (N.D. #Z99500 **STD315205	2
43	3-606759-03	Pinion Shaft	1
44	1-622149-106	Needle Bearing (Torrington M-471)	1
45	4-611061-07	Base (Includes Key Nos. 8, 44, and Two Key No. 9)	1
46	2-607743-01	Dust Skirt	1
47	2-607751-02	Dust Skirt Retainer	1
48	1-616081-01	*Screw (#8-18 x ⅝ Pan Hd. T.C.)	1
49	1-607407-01	Screw (#18 x 1 Pan Hd. T.F.)	3
50	1-607033-01	Spacer	1
51	1-615095-01	Lock Washer	1
52	1-616081-13	*Screw (#8-18 x ½ Pan Hd.) **STD610805	2
53	2-622848-01	Blower Coupling	1
54	1-621646-02	Cap Screw (¼-20 x ¾ Left Hand Thread, Hex Socket)	1
55	1-931744-818	Washer	1
56	2-611014-01	Blower	1
57	1-607407-03	Screw (#8-18 x 1⅞ Pan Hd. T.F.)	2
58	2-611389-01	Logo Plate	1
59	3-607034-01	Cover and Blower Housing Assembly	1
60	2-621826-00	Timing Belt	1
61	2-606727-01	Drive Sprocket	1
62	1-616081-03	*Screw (#8-18 x 1 Pan Hd. T.C.)	2
63	4-607012-01	End Cap	1
64	1-616081-04	*Screw (#8-18 x ¾ Pan Hd. T.C.) **STD610807	2
65	1-931055-05	Washer	2
66	1-624198-01	Brush Cap	4
67	2-612217-01	Logo Plate	1
68	2-612102-01	Brush Assembly	2
69	2-612089-01	Brush Tube	2
70	2-612112-01	Brush Holder	2
71	1-607400-01	Spacer	1
72	1-706404-07	Hex Nut (#8-32) **STD541008	10
73	1-614658-12	*Screw (#8-32 x 15/16 Pan Hd.) **STD510810	5
87	4-621930-00	Dust Bag	1
88	2-621893-00	Bag Fitting	1
89	1-701511-804	Washer	1
90	2-621931-01	Support	1
91	3-622084-01	Dust Bag Assembly (Includes Key Nos. 87, 88, 89 and 90)	1
92	1-611764-01	Washer	1
	2-620263-965	Owners Manual (Not Illustrated)	

NOTE: **"A"—The assembly shown represents an important part of the Double Insulated System. To avoid the possibility of alteration or damage to the System, service should be performed by your nearest Sears Electric Motor Shop/Specialty Repair Center. Contact your nearest Catalog Order or Retail Store.**

*Standard Hardware Item—May Be Purchased Locally
**Available From Div. 98—Source 980.00

***Sanding Belts in Assorted Grits for Sanding Both Wood and Metal May Be Obtained from Your Nearest Sears Catalog Order or Retail Store.

FOR ILLUSTRATION — SEE PAGE 6

Sears

OWNERS MANUAL

SERVICE

MODEL NO. 315.11782

HOW TO ORDER REPAIR PARTS

CRAFTSMAN®

4 INCH BELT SANDER WITH DUST PICK-UP

DOUBLE INSULATED

Now that you have purchased your Sander, should a need ever exist for repair parts or service, simply contact any Sears Service Center and most Sears, Roebuck and Co. or Simpsons-Sears Limited stores. Be sure to provide all pertinent facts when you call or visit.

The model number of your Sander will be found on the plate attached to the base.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PART NUMBER
- MODEL NUMBER
  315.11782
- PART DESCRIPTION
- NAME OF ITEM
  Belt Sander

All parts listed may be ordered from any Sears Service 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., Chicago, IL 60684 U.S.A. and SIMPSONS-SEARS LIMITED, Toronto, Canada