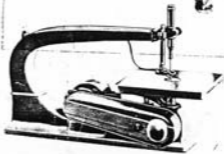


# Instruction manual

## 24" Scroll Saw



24" SCROLL SAW, VARIABLE  
SPEED MODEL, SHOWN WITH  
STAND, CASTERS, LAMP  
ATTACHMENT AND ELECTRICALS



24" SCROLL SAW, FOUR SPEED MODEL, SHOWN  
WITH GUARD AND ELECTRICALS



**Rockwell**

The Serial No./Model No. plate is attached to the base casting. Record the serial No. and Model No. as stamped on this plate and the date of purchase in your manual for future reference.

Serial No. \_\_\_\_\_

Model No. \_\_\_\_\_

Date of Purchase \_\_\_\_\_

## SAFETY RULES FOR ALL TOOLS

As with all power tools there is a certain amount of hazard involved with the operator and his use of the tool. Using the tool with the respect and caution demanded as far as safety precautions are concerned will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or completely ignored, personal injury to the operator can develop.

There are also certain applications for which this tool was designed. Rockwell strongly recommends that this tool NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the tool until you have written Rockwell and we have advised you.

ROCKWELL INTERNATIONAL  
MANAGER OF PRODUCT SAFETY  
POWER TOOL DIVISION  
400 NORTH LEXINGTON AVENUE  
PITTSBURGH, PENNSYLVANIA 15208

- 1. KNOW YOUR POWER TOOL.** Read the owner's manual carefully. Learn the tools applications and limitations, as well as the specific potential hazards peculiar to it.
- 2. KEEP GUARDS IN PLACE** and in working order.
- 3. GROUND ALL TOOLS.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to accommodate a two-prong receptacle, the adapter lug must be attached to a known ground. Never remove the third prong.
- 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.
- 6. AVOID DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
- 7. KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept a safe distance from work area.
- 8. MAKE WORKSHOP KIDPROOF** - with padlocks, master switches, or by removing starter keys.
- 9. DON'T FORCE TOOL.** It will do the job better and be safer at the rate for which it was designed.
- 10. USE RIGHT TOOL.** Don't force tool or attachment to do a job it was not designed for.
- 11. WEAR PROPER APPAREL.** No loose clothing, gloves, neckties, or jewelry to get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
- 12. USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty.
- 13. SECURE WORK.** Use clamps or a vise to hold work, when practical. It's safer than using your hand and frees both hands to operate tool.
- 14. DON'T OVERREACH.** Keep your proper footing and balance at all times.
- 15. MAINTAIN TOOLS IN TOP CONDITION.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 16. DISCONNECT TOOLS** before servicing and when changing accessories such as blades, bits, cutters.
- 17. USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause hazards.
- 18. AVOID ACCIDENTAL STARTING.** Make sure switch is in "OFF" position before plugging in cord.
- 19. NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
- 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.
- 23. DRUGS, ALCOHOL, MEDICATION.** Do not operate tool while under the influence of drugs, alcohol or any medication.

## ADDITIONAL SAFETY RULES FOR SCROLL SAWS

- 1. CHECK** all adjustments on the scroll saw by rotating the motor by hand before turning power on.
- 2. LOWER** the hold down on the scroll saw so that it presses lightly on the material being cut.
- 3. STOP** the machine before removing scrap pieces from the table.
- 4. ALWAYS** keep hands and fingers away from blade.
- 5. CHECK** for proper blade size and type.
- 6. DO NOT** attempt to saw stock that does not have a flat surface, unless a suitable support is used.
- 7. TURN OFF** the machine if the material is to be backed out of an uncompleted cut.
- 8. MAKE** "release" cuts before cutting long curves.

## UNPACKING AND CLEANING THE SCROLL SAW

If you purchased your scroll saw factory wired and ready to run (either the four speed model or variable speed model), the scroll saw with electricals is shipped assembled to the top shelf of the stand.

If you purchased the basic 24" scroll saw minus electricals along with the Catalog No. 50-718 steel stand, the machine is shipped in one carton and the stand in another carton.

In both cases, remove the scroll saw from the carton and remove the protective coating from the machined surfaces of the scroll saw. This coating may be removed with a soft cloth moistened with kerosene (do not use acetone, gasoline or lacquer thinner for this purpose). After cleaning, cover all unpainted surfaces with a good quality paste wax.

### ASSEMBLING STAND

If you purchased your machine factory wired and ready to run, either four speed model or variable speed model, proceed as follows:

1. Tilt the saw on its back and assemble the four legs (A), to the top shelf (B), using the eight hex head screws, lockwashers and nuts supplied, as shown in Fig. 2. NOTE: Only tighten the nuts finger tight at this time.
2. Assemble the four tie bars (C) Fig. 2, to the legs making sure the lip of the tie bars will be toward the top of the stand, using the sixteen hex head screws, lockwashers and nuts supplied. Only tighten the nuts finger tight at this time.
3. Tilt the stand and saw to the upright position and tighten the nuts and bolts in the following order: First the eight lower tie bar bolts and nuts (D); second, the eight upper tie bar bolts and nuts (E); third, the eight top shelf bolts and nuts (F), Fig. 2.

If you purchased the Catalog No. 50-718 Steel Stand, the procedure for assembling the stand is the same as factory wired and ready to run models with the exception that the top shelf should be positioned upside down on a table or floor and the legs (A) and tie bars (B) Fig. 2, fastened to the top shelf, as previously explained. After the stand is in the upright position and all the bolts and nuts tightened, assemble the saw to the stand.



Fig. 2

## ASSEMBLING RETRACTABLE CASTER ATTACHMENT

If you have purchased the Catalog No. 49-363 Retractable Caster Attachment for use on the steel stand, assemble it to the stand, as follows:

1. Before assembling caster set to stand, determine which side of the stand would be most convenient for the foot levers. The foot lever end of the shaft has a cam (A) Fig. 3, assembled in-place at the factory.
2. The shaft should be fitted across the narrow side of the steel stand.
3. Assemble the cams (B) on both shafts (C) at hole (D) Fig. 3. Assemble one cam on each shaft. Cams on each shaft must match when assembled, as shown in Fig. 3.

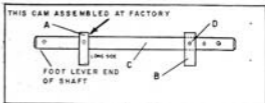


Fig. 3

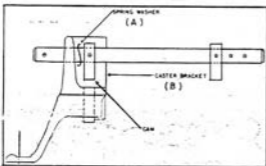


Fig. 4

4. Assemble spring washer (A) and caster mount bracket (B) on each shaft, as shown in Fig. 4.

5. Assemble foot lever (A) Fig. 5, to the end of the shaft using the pin supplied. Foot lever is assembled to each shaft in the same manner, as shown in Fig. 5.

6. Tilt the steel stand by placing a 2 X 4 under it so that the legs will be off the floor about 2 inches.

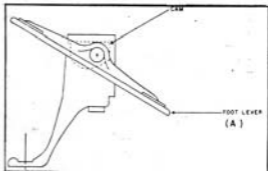


Fig. 5

7. Place spring washer (B), fiber washer (C) and caster mount bracket (D) on opposite end of shaft (E) Fig. 6. NOTE: The fiber washers (C) are to be used as shims. These washers can be placed on the shaft end opposite the foot lever and between the spring washer (B) and caster mount (D) Fig. 6.

8. Place caster mount bracket (D) and (F) with shaft (E) and foot lever (A) inside and under steel stand legs (G) Fig. 6.

9. Insert flat head machine screw (H) through hole in bracket (D) and through washer (O) steel stand leg (G) and fasten in place with washer (N) and nut (L) Fig. 6. Do not tighten nut securely at this time.

10. Fasten the other bracket (F) Fig. 6, to the steel stand in the same manner and tighten both nuts (L) securely.

11. This same method of application is to be followed in assembling shaft to opposite pair of steel legs. The caster (M) can then be assembled to the attachment.

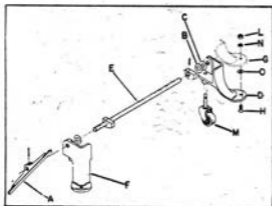


Fig. 6

## GROUNDING INFORMATION

### 115 VOLT, SINGLE PHASE

If the motor on your machine is wired for 115 Volt, single phase, the power cord is equipped with a plug that has two flat, parallel current-carrying prongs and one longer, round or "U"-shaped, ground prong which requires a mating 3-conductor grounded type receptacle as shown in Fig. 7.

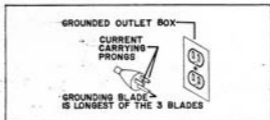


Fig. 7

An adapter, shown in Fig. 8, is available for connecting 3-prong grounding type plugs to 2-prong receptacles. THIS ADAPTER IS NOT APPLICABLE IN CANADA. The green-colored rigid ear, lug, etc., extending from the adapter is the grounding means and must be connected to a permanent ground such as to properly grounded outlet box, as shown in Fig. 8.

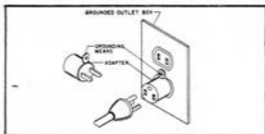


Fig. 8

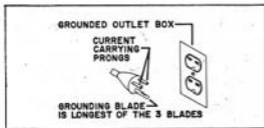


Fig. 9

### 230 VOLT, SINGLE PHASE

If the motor on your machine is wired for 230 Volt, single phase the power cord is equipped with a plug that has two flat, current-carrying prongs in tandem, and one round or "U"-shaped, longer ground prong. This is used only with the proper mating 3-conductor grounding type receptacle as shown in Fig. 9.

IN ALL CASES, MAKE SURE THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED.

### 200 VOLT, 230 VOLT AND 460 VOLT THREE PHASE

If the motor on your machine is wired for 200V, 230V or 460V three phase, the necessary wiring from the starter to the power source should be completed by a competent electrician.

## LUBRICATION

**FILL THE CRANKCASE BEFORE OPERATING** - Unscrew oil plug (A) Fig. 10, and fill crankcase with light #10 oil. The capacity of the crankcase is approximately 1½ pints. When filled, the oil should be within ¼" of the top of the oil filler hole. Excess oil can be drained by removing oil plug located directly underneath crankcase. Replace plug (A) after filling.

The upper plunger bearing is self lubricating. The plunger is chrome plated and requires no attention for the life of the machine.

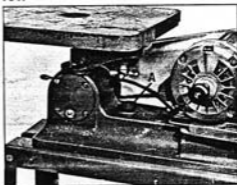


Fig. 10

## INSTALLING STANDARD BLADES

Always use widest blade possible. Use narrow blades for small abrupt curves and for fine delicate work only. To install blades, proceed as follows:

1. Disconnect machine from power source.
2. Remove table insert.
3. Loosen thumb screw (A) Fig. 11.
4. Insert blade about one-half inch between the two flat jaws (B), centering it in the jaws and holding it vertical. Then tighten thumb screw (A) Fig. 11.

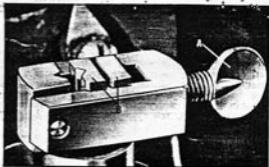


Fig. 11

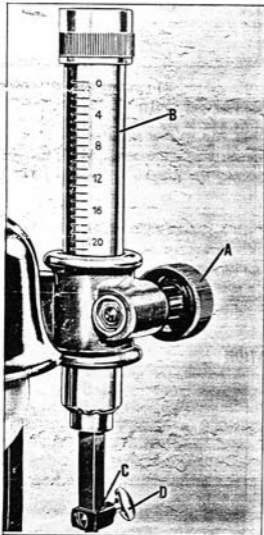


Fig. 12

5. Rotate the drive shaft pulley until the lower plunger comes up to its maximum upward travel.
6. Loosen knurled knob (A) Fig. 12, and slide graduated tube down until blade enters 1/2 inch between jaws of upper chuck (C).
7. Tighten thumb screw (D) Fig. 12, of upper chuck, to hold blade in place.
8. Raise graduated tube (B) Fig. 12, until blade has correct tension and retighten knurled knob (A). NOTE: Operator can determine, from experience, the proper tension for various blades as they are used for various work, and can record these tensions on the tube for future work using the same blades and materials.

## CHANGING LOWER CHUCK POSITION

The normal position of the lower chuck (A) Fig. 13, when cutting from the front of the machine, is with the thumb screw (B) facing to the right. To turn the chuck 90 degrees, loosen screw (C) and turn chuck so thumb screw (B) will face the front and retighten screw (C) Fig. 13. To turn the chuck 180 degrees, remove screw (C), turn chuck so that thumb screw will face the left side, exposing a hole to receive screw (C). When blade is sideways, the table should be turned 90 degrees also, to allow for proper tilting.

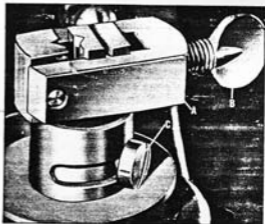


Fig. 13

## CHANGING UPPER CHUCK POSITION

To change cutting position of blade from front to side, or side to front, push up retainer seal (A) Fig. 14, and turn chuck (B) 90 degrees to the right or left and it will automatically lock itself in place. No further adjustment is necessary.

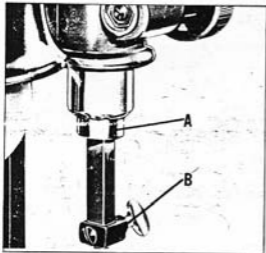


Fig. 14

## BLADE GUIDE POST

When the work is fed from the side of the table, the hexagon guide post (A) Fig. 15, is moved from hexagon hole on left side of head to the hexagon hole (B) on the right side. This will automatically bring the blade guide to the proper position for side cutting. To move the blade guide, proceed as follows:

1. Remove thumb screw (C) Fig. 15, and remove blade guide assembly (D) from guide post (A).
2. Remove thumb screw (E) Fig. 15, and transfer guide post (A) from left side to hole (B) on right side of head.
3. Insert thumb screw (E) Fig. 15, in front tapped hole (F) to hold guide post in place. Only thumb screw (E) is transferred as lock pin is not required in front hole.
4. Replace blade guide assembly (D) to guide post (A), positioning guide assembly to allow work to be fed from the side and tighten thumb screw (C) Fig. 15, to hold blade guide assembly to guide post.

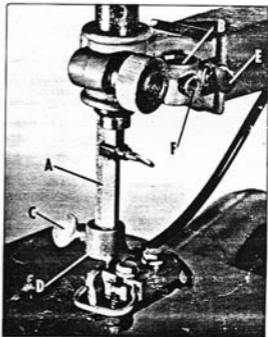


Fig. 15

## BLADE GUIDE ASSEMBLY

The blade guide (A) Fig. 16, is universal and can be adjusted to suit any width or thickness of blade within the capacity of the machine. The blade guide (A) has six different width slots and can be rotated to accommodate various blade thicknesses by loosening screw (B).

The blade is backed by a heat treated roller (C) Fig. 16, that prevents wear on the blade guide, avoids work hardening of the back of the blade, which may contribute to blade breakage.

A blade guard is provided to prevent accidental injury to the fingers. (For clarity the blade guard is not shown in Fig. 16.)

The blade guide assembly is also provided with a hold-down spring (E) Fig. 16, which can be tilted to follow the angle of the work when the table is tilted.

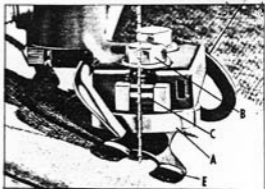


Fig. 16

## TABLE ADJUSTMENTS

To tilt the table loose knob (A) Fig. 17, tilt table to desired degree and retighten knob (A). **IMPORTANT:** When the table is to be tilted 45 degrees to the right, the position of the lower chuck must be reversed to move the thumb screw to the left hand side so that the table will not strike the thumb screw.

To rotate the table, loosen the two screws (B) Fig. 17, and rotate table 90 degrees. When the table is rotated the upper and lower blade chuck and guide will have to be turned 90 degrees.

The table top should be adjusted so that it is 90 degrees to the saw blade, by placing a small square on the table with one end of the square against the blade. If an adjustment is necessary, tilt the table until table is square with blade and tighten table tilting knob (A) Fig. 17. If necessary, adjust pointer to 0 degrees on scale.

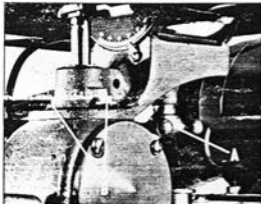


Fig. 17

## AIR BLOWER

The air blower (A) Fig. 18, keeps the cutting line free of nuisance dust and operates off the crankshaft. If blower does not function properly, proceed as follows:

1. Examine rubber tubing and see that it is not kinked, choked or caught under base.
2. Examine nozzle (A) Fig. 18, on the guide and see that it is clear.

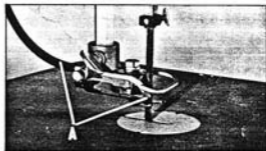


Fig. 18

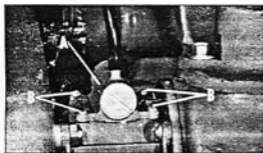


Fig. 19

3. If blower still does not operate properly, remove pump housing cover (A) Fig. 19, by removing four screws (B).
4. Remove blower piston, examine it, if not in good condition, replace with a new one.
5. No trouble should be encountered with the valves.



## OPERATION

The following directions will give the inexperienced operator a start on the usual scroll saw operations. Use scrap material for practice, to get the feel of the machine before attempting regular work.

Place the table insert with its slot back of the blade, so that the solid part of the insert is always in front, where it is needed to support the work. The center of the insert coincides with the line of the blade in all positions.

Turn the machine by hand, to make sure that all parts have clearance, before starting the motor. Always bring the blade guide down as far as the thickness of the work will permit, for maximum blade support.

## CUTTING WITH SCROLL SAW BLADES

Blades are available in various widths and tooth spacings, according to the purpose for which they are designed, see chart on page 12. Wide blades are for straight or slightly curved cuts; the narrow ones are for sharp curves. Minimum radius of the curve depends upon the amount of tooth set in relation to thickness and width of the blade, as the back of the blade must run to one side of the saw kerf. Do not try to force the blade around a curve sharper than it is intended to cut smoothly; rather cut a series of short segments and finish to the correct curve by sanding or filing.

Tooth spacing is important in relation to the kind of material and thickness to be cut. Several teeth should be in the cut at all times. Coarse blades are for use on relatively thick pieces of wood and other soft materials. Blades with closely spaced teeth should be used when cutting thin metal sheets or tubes.

When cutting very thin materials, there is a tendency for the saw teeth to strike on the edge of the work because only one tooth may be in the cut at a time. This results in chatter and frequent blade breakage. Feeding the work slowly and carefully improves the operation, but it is best to sandwich the thin sheet between two pieces of thicker waste material, thus presenting a more substantial edge to the blade. This method gives a smoother cut and less burr on the thin sheet; also longer blade life.

## CUTTING WITH SABER BLADES

Saber blades are clamped in the V-jaws, (A) Fig. 20, of the lower chuck, rather than in the flat jaws. The normal position of the lower chuck is therefore correct for cutting from the side of the machine. When cutting from the front, turn the chuck so that the thumb screw is to the front.

The blade guide must be used to support the upper end of the saber blade. Adjustments for correct position of the blade guide are the same as for scroll saw blades.

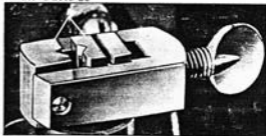


Fig. 20

Available as an accessory for your saw is the Catalog No. 40-204 Lower Saber Saw Blade Guide (A) Fig. 21, which supports the saber blade directly below the table. This accessory enables you to do perfect straight line saber cutting because the blade is supported below the table as well as above. The 40-204 consists of two lower guides with post, nut and thumb screw. Blade slots are .030" and .040".

Since the upper chuck is not used with saber blades, the upper plunger remains at the top of its stroke, out of the way. The blade guide should, however, be set no higher than about 1/4 inch below the upper end of the blade at the lower end of the stroke.

Saber blades are necessarily wider and heavier than the fine jeweler's blades. Because of their more rapid cutting action they should be used for the majority of scroll saw operations. They offer a distinct advantage in the case of shifting from one opening to another in pierced work and in connection with odd-shaped pieces which cannot be run under the upper plunger when using scroll saw blades.

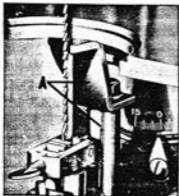


Fig. 21

## CUTTING CIRCLES

Circles may be cut with the scroll saw by means of a circle jig. Clamp a plywood sheet on the table, as an auxiliary top. Use a pin through the plywood as the center of the circle. The pin should be on a line drawn at right angles to the flat of the blade even with the teeth, and its distance from the blade should be equal to the radius of the desired circle. Drill a hole in the work piece to fit the pin, and rotate the piece on the pin while cutting the circle.

## RIPPING

While intended primarily for free-hand cutting of curved designs, the scroll saw can be used within reasonable limits for ripping, as with a circular saw. An effective rip fence may be made by clamping a straight edge on the table, parallel to the saw blade. Material can be ripped straight by feeding it along the fence. This is a useful procedure in preparing stock, such as plywood or plastic sheets, for various projects, and may be applied where portions of the design call for straight cuts. The fence is also a handy guide when set at right angles to the blade for cutting thin tubes square.

## SANDING

The Catalog No. 40-711 Accessory Sanding attachment Fig. 22, has a 1/4" shank so that it may be clamped between the V-jaws in the lower chuck. It is useful for finishing the edges of work which has been cut on the scroll saw or band saw. The combination of a curved and a flat face, with fairly sharp edges, make it possible to do accurate sanding of various patterns, saving tedious hand work.

Medium and fine grained sanding sleeves are available to fit this attachment. The knurled knob (A) controls the expanding body, making the sleeves instantly interchangeable and holding them securely when tightened.

Slow speed should be used for sanding operations. The standard table insert should be replaced by a special insert, cut out to the shape of the sander, or a plywood table top with suitable fitted hole.

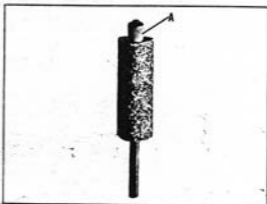


Fig. 22

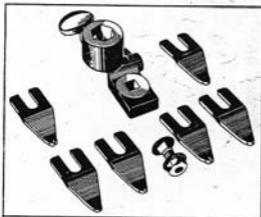


Fig. 23

## ACCESSORY SELF-CENTERING LOWER CHUCK

The Catalog No. 40-715 accessory self-centering lower chuck, Fig. 24, is handy for clamping very fine blades. It is easily attached to the lower plunger tube, in place of the standard lower universal chuck. It is a valuable aid for fine marquetry and puzzle work. Fine blades are automatically guided to center of work, then locked with thumb screw. It also includes a special jaw for use with upper chuck.



Fig. 24





# ACCESSORIES

## QUALITY ACCESSORIES MAKE THE 24" SCROLL SAW MORE VALUABLE

No. 50-718 Steel Stand, 8 x 34 x 21½" high. 34 lbs.

No. 49-363 Retractable Caster Set. For 50-718 Steel Stand. 12 lbs.

No. 40-207 (old 1207) Four-Speed Accessory Group. Consists of 41-712 Motor Pulley (½" bore), 41-722 machine pulley and 49-340 (old 340) V-belt. 3 lbs.

No. 40-203 (old 1203) Belt and Pulley Guard. For use with 40-207 (old 1207) Four-Speed Accessory Group. 6 lbs.



No. 40-444 (old 1444) Variable Speed Accessory Group. Converts the Four-Speed Scroll Saw to a Variable Speed Model. This efficient drive, with a range of 650 to 1700 cutting strokes per minute, provides the proper cutting speed for any material—high speed for fast, fine work—slow speed for heavy work—and an infinite choice of speeds in between. A convenient speed control handle permits fine speed adjustment—even within 1 or 2 C.S.M.—while the machine is running.

Consists of 40-446 (old 1446) variable-speed motor pulley (½" bore), 40-447 (old 1447) motor base with bracket, screws and handle, 49-303 (old 331) special V-belt and 40-443 (old 1443) special drive pulley (½" bore). 11 lbs.

No. 40-442 (old 1442) Belt and Pulley Guard. For use with 40-444 (old 1444) Variable Speed Assembly. 11 lbs.



No. 40-204 (old 1204) Lower Saber Saw Blade Guides. Support saber blade directly below table. Enable you to do perfect straight-line saber cutting because the blade is supported below the table as well as above.

Consists of (2) lower guides with post, nut and thumb screw. Blade slots—.030" and .040". ½ lb.



No. 40-711 (old 711) Sanding Attachment. For sanding concave, convex or flat surfaces. Eliminates annoyance of makeshift devices. Knurled knob expands body of sanding attachment, tightens garnet sleeve securely, ¼" wide, ½" thick and 2½" long. ¼" dia. shank fits universal low chuck of scroll saw. With one sleeve. ½ lb.

Sanding Sleeves. Package of 6. ¼ lb.

Number	Type	Grit and Finish
46-841 (old 841)	Garnet	No. 1 Medium
46-248 (old 842)	Garnet	No. 1/0 Fine



No. 40-202 (old 1202) Individual Blade Guides. Supplement the regular guide and hold-down. Used where close following of a line or pattern is important. Ideal for puzzle and marquetry work.

Set of six different, hardened steel guides and bracket. 1 lb.



No. 40-715 (old 715) Self-Centering Lower-Jaw Chuck. Fits lower plunger of scroll saw. Valuable aid for fine marquetry and puzzle work. Fine blades are automatically guided to center of chuck, then locked with thumb screw. Includes special jaw for use with upper chuck. ½ lb.

No. 40-882 (old 882) Lamp Attachment. Eliminates shadows and brings light to your work where needed for accurate following of layouts, yet does not glare. Can be swung out of the way by a touch of the finger. Furnishes every machine with its own illumination, independent of the shop lighting system. Uses standard 15 or 25-watt bulb. Includes shade, socket, cord, four flat links, bolts, spacer and attachment bracket. 1½ lbs.

### SCROLL SAW BLADES

A proper blade for every job. All are 5" long with accurately spaced teeth. Heat treated for extra long life. Have ¼" blank ends for fastening into chuck. ½ doz. to a package. ¼ lb.

Cat. No.	Material Cut	Width In.	Teeth Per Inch	Blade Full Size
40-056 (Old 56)	Steel • Iron Lead • Copper Aluminum	.070	32	
40-159 (Old 59)	Poster Asbestos Paper • Fall	.070	20	
40-160 (Old 60)	Steel • Iron Lead • Copper Brass	.070	15	
40-161 (Old 61)	Aluminum Poster Asbestos	.085	15	
40-164 (Old 64)	Wood	.110	20	
40-165 (Old 65)	Asbestos • Brake Lining • Misc Steel • Iron Lead • Copper Brass Aluminum Poster	.250	20	
40-184 (Old 84)	Wood Veneer Plexi Plastic Celluloid Hard Rubber Bakelite Ivory Externally Thin Materials	.095	20	
40-185 (Old 85)	Plastics Celluloid	.050	15	
40-187 (Old 87)	Bakelite	.070	7	
40-188 (Old 88)	Ivory • Wood	.110	7	
40-191 (Old 91)	Wall Board Pressed Wood Wood • Lead Glass • Ad. Paper • Copper Heavy Aluminum	.120	15	
40-192 (Old 92)		.120	10	
40-193 (Old 93)	Hard and Soft Wood	.187	10	
40-194 (Old 94)		.250	7	
40-195 (Old 95)	Perl • Poster Misc	.054	30	
40-196 (Old 96)	Pressed Wood Sea Shells	.054	20	
40-198 (Old 98)	Hard Leather	.085	12	

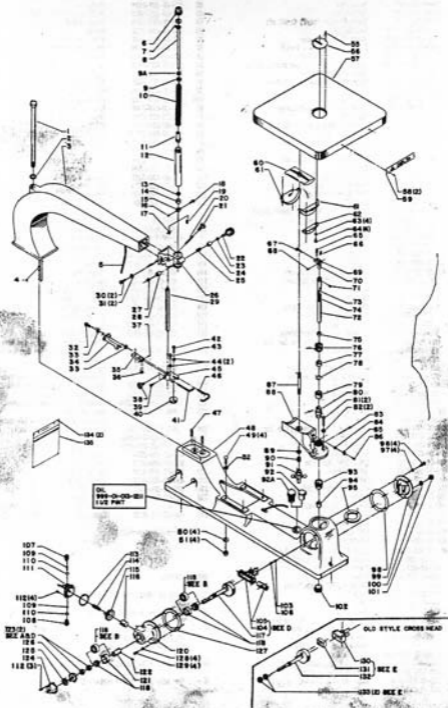
As a general rule, always select the narrowest blades recommended for intricate curve cutting and widest blades for straight and large curve cutting operations.

### SABER BLADES FOR WOOD

Made of high-grade steel with teeth hardened and accurately set. Are 5" in length. ½ doz. to a package. ¼ lb.

No. 40-703 (old 703) .023" thick, .187" wide, 9 teeth per inch.

No. 40-704 (old 704) .033" thick, .250" wide, 7 teeth per inch.

1440, 40-205, 40-211, 40-213, 40-305,  
40-306, 40-311, 40-313, 40-440

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REPLACEMENT PARTS

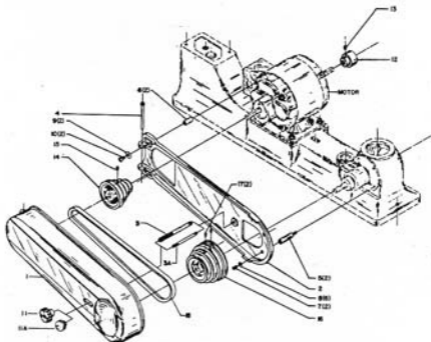
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	901-01-101-1565	Bolt	79	400-02-079-0001	Bearing Ring
2	904-02-020-1751	5/8" Int. Tooth Lockwasher	80	400-02-017-0002	Upper Bearing
3	400-02-089-0003	Overhaul	81	901-04-160-2216	1/4-28 x 1" Hex Hi Scr
4	905-04-071-4460	Roller Pin	82	904-03-027-2524	Washer
5	400-02-080-0003	Dasher Tube	83	901-04-121-3603	#6-32 x 5/16" Hts Set Scr
6	400-02-325-0007	Upper Plunger Assy., Const. of:	84	904-01-010-1610	Steel Washer
7	904-01-020-3995	Coarled Cap	85	901-01-019-7932	Pointer
8	400-02-028-0005	Upper Plunger Bumper	86	901-02-019-7932	#10-32 x 1/4" Hi Scr
9	400-02-104-0003	Plunger Tube Assy., Incl:	87	901-07-261-3239	Trunion Clamp Stud
9A	901-01-028-2925	Sq Wile Fiber Washer	88	400-02-014-0003	Trunion Detail Bracket
10	901-01-101-4017	Special Washer (Current Models Only)	89	904-03-031-2925	Washer
11	400-02-317-0003	Upper Plunger Spring	90	904-03-021-4125	Spring
12	400-02-021-0003	Upper Plunger Bearing & Collar	91	901-03-011-4037	Star Wheel
13	904-09-101-4623	Casing	92	400-02-002-2476	Oil Gap (Early Models Only)
14	400-02-020-0007	Flat Seal	93A	400-02-074-0002	Oil Plug (Current Models Only)
15	1096376	Upper Plunger Seal Retainer	94	905-05-011-2795	Bearing Seat
16	901-02-551-2897	Chuck Body	95	400-02-079-0003	Lower Plunger Bushing
17	1066371	#6-40 x 13/64 Spec Flt Hi Scr	96	901-02-010-0803	Clamp Ring
18	901-04-260-1542	Jaw w/Pin	97	904-07-010-5573	1/4-20 x 5/8" Hi Scr
19	1093819	#10-32 x 1/2" Thumb Screw	98	400-02-114-0002	Fiber Washer
20	901-04-071-820	Jaw w/Pin	99	400-02-114-0002	Gasket
21	901-04-260-1520	Plunger Housing, Const. of:	100	400-01-020-0006	Crack Case Cover
22	400-02-411-0003	5/16-18 x 1/2" Thumb Screw	101	904-07-020-5596	Fiber Washer
23	901-07-010-8995	Coarled Hand Knob	102	904-10-014-3170	5/8-16 x 3/8" Truss Hi Scr
24	400-02-105-0003	1/4" Neolite Washer	103	906-02-020-6273	Oil Plug
25	901-01-040-7385	Lock Sleeve (L.H.)	104	400-01-355-0003	1/4-20 x 1/8" Lock Screw
26	400-02-014-0003	Stop Rod Spring (Early Model Only)			Guide, Incl:
27	901-01-125-1209	Upper Head Bracket	105	1099555	(Current Models Only - See Note D)
28	400-02-105-0002	Lock Sleeve (L.H.)	106	901-04-160-9014	Pin (Current Models Only - See Note D)
29	400-02-110-0003	Guide Post	107	901-09-120-6143	1/4-28 x 3/8" Dog Pt Set Scr
30	901-01-040-0626	1/4-20 x 3/4" Hex Hi Scr	108	901-09-020-6148	Dr Shaft Nut Assy., Const. of:
31	904-01-021-2524	Washer	109	908-01-021-4128	Inlet Valve Screw
32	400-02-325-0003	Saw Guide Assy., Const. of:	110	952-03-021-4821	Inlet Valve Screw
33	901-01-050-0001	1/4-20 x 1/2" Hex Hi Scr	111	400-02-020-0005	Spring
34	904-01-021-2524	Washer	112	901-02-010-0964	Wipe Disk
35	400-02-027-0006	1/4-20 Hex Nut	113	400-02-116-0003	Pump Head
36	400-02-300-0003	Blade Support Assy., Incl:	114	901-02-116-0003	#6-32 x 3/8" Hi Scr
37	400-02-080-0003	Blade Support Roller	115	901-02-080-0003	Pump Head Gasket
38	901-04-071-8122	Roller Pivot Pin	116	400-02-326-0003	Blower Spring
39	901-04-260-1520	5/16-18 x 1/2" Thumb Screw	117	400-02-010-0002	Blower Piston
40	400-02-112-0002	#6-32 x 1/2" Coarled Hi Scr			Plunger
41	400-02-055-0001	Blade Guide	118	901-03-090-3464	Dr Shaft Acroft Kit (Current Models Only - See Note D)
42	400-02-055-0002	Nozzle			Thrust Tapered Roller Bearing Cap & Cone (Early Models Only)
43	901-01-040-0626	1/4-20 x 3/4" Hex Hi Scr	119	905-04-010-7272	Ball Bearing (Current Models Only - See Note B)
44	901-01-021-2524	1/4" Washer	120	400-02-012-0007	Drive Shaft Housing (See Note C)
45	400-02-014-0005	Saw Guide Bracket	121	400-02-319-0003	Pump Eccentric, Incl:
46	400-02-054-0006	Blade Guard	122	901-04-140-0275	1/4-20 x 1/2" Allen Set Screw
47	901-01-010-2720	1/4 x 1" Ball Pin	123	902-01-021-2528	Spec Jan Nut (Current Models Only - See Notes A & D)
48	400-02-025-0003	Roller			Bearing Seal Gap Assy., Incl:
49	901-01-050-0002	5/16-18 x 1 1/4" Hex Hi Cap Scr	124	400-02-320-0003	Fiber Washer
50	904-01-010-1604	5/16" Flat Washer	125	904-07-010-5596	Felt Washer
51	902-01-010-1300	5/16" Hex Nut	126	904-03-021-4001	Gasket
52	904-02-010-7003	5/16" Lockwasher	127	400-02-116-0002	Gasket
53	901-01-010-4711	1/8 x 3/8" Roll Pin	128	904-07-010-5573	Fiber Washer
54	400-02-063-0003	Table Insert	129	901-02-010-0923	1/4-20 x 5/8" Hi Scr
55	400-02-091-0002	Table	130	400-02-325-0005	Block (Early Models Only - See Note E)
56	901-06-400-2250	#4 x 3/16" Drive Screw	131	400-02-310-0003	Guide (Early Models Only - See Note E)
57	900-02-112-1425	Neolite	132	400-02-026-0003	Drive Shaft Acroft Kit (Early Models Only - See Note E)
58	400-02-027-0003	Trunion Clamp Plates	133	900-75-011-2800	Spec Jan Nut (Early Models Only - See Note E)
59	400-02-096-0003	Trunion			
60	901-02-010-7613	Index Plate			
61	904-02-020-1702	1/4" Lockwasher			
62	901-02-010-0914	1/4-20 x 3/8" Hi Scr			
63	400-02-325-0003	Lower Plunger Assy., Const. of:			
64	400-02-325-0004	Lower Chuck Assy., Const. of:			
65	400-02-054-0003	Platin Jaw			
66	400-02-054-0002	V-Jaw			
67	901-04-260-1543	#10-32 x 5/8" Thumb Screw			
68	905-01-010-2716	Chuck Pin			
69	400-02-027-0002	Nut			
70	400-02-012-0006	Chuck Body			
71	901-02-551-2897	#6-4 x 13/64" Spec Flt Hi Scr			
72	400-02-360-0002	Lower Plunger Assy., Incl:			
73	400-02-024-0003	Dark Plug			
74	400-02-024-0003	Coarse Steel Mesh Filter			
75	400-01-020-0003	Oil Hole Cover			
76	400-02-412-0003	Bearing Assy., Consisting of:			
77	400-02-112-0008	Bearing Retainer Screw			
78	904-09-021-3995	Upper Bearing Packing			
79	901-19-010-9428	Packing Spring			

SERVICE NOTES:

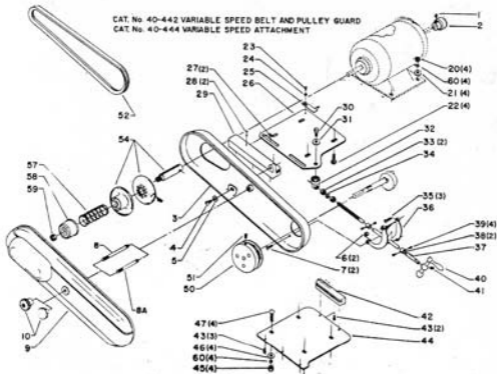
- A - Back off first nut 1/16 inch before tightening second nut.
- B - Remove both bearing seals before installing bearing.
- C - When replacing housing on early models containing thrust tapered roller bearings, the tapered bearings must be replaced with current ball bearings.
- D - For saws with Serial Numbers CS-1395 and higher.
- E - For saws with Serial Numbers CS-1394 and lower.

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CAT. No. 40-205 FOUR SPEED BELT AND PULLEY GUARD  
 CAT. No. 40-207 FOUR SPEED ACCESSORY GROUP



CAT. No. 40-442 VARIABLE SPEED BELT AND PULLEY GUARD  
 CAT. No. 40-444 VARIABLE SPEED ATTACHMENT

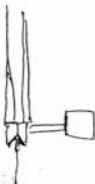




**CAT. #40-203 BELT AND PULLEY GUARD  
CAT. #40-207 FOUR SPEED ACCESSORY GROUP**

REF. NO.	PART NO.	DESCRIPTION
*	40-203	4 Speed Belt & Pulley Guard, Const of:
1	400-02-054-0002	Guard
2	400-02-054-0003	Guard
3	901-07-261-3040	Stud (Early Models Only)
3A	1007266	Stud (Current Models Only)
4	905-04-101-3137	Pin
5	905-04-021-4456	Stud
6	902-06-001-3070	Spacing Nut
7	903-02-010-0509	1/4-20 x 1/2" Rd Hd Scr
8	904-01-010-1603	Washer
9	904-01-010-1604	Washer
10	903-02-010-0556	10-32 x 3/4" Rd Hd Scr
11	503-02-031-3532	Hexd Knob (Early Models Only)
11A	1007266	Knob (Current Models Only)
12	400-02-320-0003	Knob, Incl:
13	901-06-190-0253	1/4-28 x 1/4" Soc Set Scr
*	40-207	4 Speed Accessory Group, Const of:
14	41-712	Motor Pulley, Incl:
15	903-04-190-0201	5/16-18 x 5/16" Soc Set Scr
16	41-722	Arbor Pulley, Incl:
17	903-04-190-0201	5/16-18 x 5/16" Soc Set Scr
18	40-340	V-Belt
*		NOT SHOWN ASSEMBLED

G.R. →



**CAT. #40-442 BELT AND PULLEY GUARD  
CAT. #40-444 VARIABLE SPEED ATTACHMENT**

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
*	40-442	Var. Spd Belt & Pulley Guard, Const of:	32	400-02-014-0007	Bracket
1	400-02-320-0003	Knob Assembly, Incl:	33	902-01-010-5900	3/16-16 Hex Nut
2	901-04-170-0253	1/4-28 x 1/4" Soc Set Scr	34	904-01-030-1650	Spec Washer
3	400-02-054-0004	Guard Pin	35	901-02-010-0504	1/4-20 x 3/4" Rd Hd Scr
4	901-02-010-0512	5/16-18 x 1/2" Rd Hd Scr	36	400-02-014-0008	Bracket
5	904-01-010-1604	Washer	37	400-02-408-0001	Rod Assy, Incl:
6	902-01-120-1034	1/4-20 Hex Nut	38	904-10-021-3946	Collar
7	901-02-010-0503	1/4-20 x 5/8" Rd Hd Scr	39	901-02-010-0567	#6-32 x 1/4" Rd Hd Scr
8	903-07-261-3044	Stud (Early Models Only)	40	900-05-991-1643	Crank, Incl:
8A	1007267	Stud (Current Models Only)	41	901-04-190-0225	5/16-18 x 1/4" Soc Set Scr
9	400-02-054-0005	Guard	42	400-02-055-0009	Guide
10	503-02-031-3532	Knob (Early Models Only)	43	901-02-010-0561	#10-32 x 3/8" Rd Hd Scr
10	1007256	Knob (Current Models Only)	44	400-02-005-0003	Base
*	40-444	Var Speed Attach, Const of:	45	902-01-010-1300	5/16-18 Hex Nut
20	902-01-010-1300	5/16" Hex Nut	46	904-01-010-1605	Washer
21	904-01-010-1605	Washer	47	901-11-020-0800	5/16-18 x 1 1/4" Car Bolt
22	903-11-020-0804	5/16-18 x 3/4" Carriage Bolt	50	40-443	Pulley, Incl:
23	901-02-010-0508	#6-32 x 1/4" Rd Hd Scr	51	901-04-190-0206	5/16-18 x 5/16" Soc Set Scr
24	904-01-010-1602	Steel Washer	52	40-323	V-Belt
25	903-01-010-3576	Pointer	53	1200603	Var Speed Pulley (Current Models Only)
26	400-02-005-0002	Motor Base	54	40-445	Var Speed Pulley (Early Models Only), Incl:
27	904-10-031-3945	Roller	57	925-01-041-4119	Spring
28	905-04-011-3120	Pin	58	400-02-021-0002	Cover
29	400-02-055-0006	Guide	59	902-01-020-9154	Spec Nut
30	903-01-060-0605	5/16-18 x 1/2" Hex Hd Scr	60	904-02-010-1703	Lockwasher
31	904-10-031-3903	Spec Washer			
*		NOT SHOWN ASSEMBLED			