16" Variable Speed Scroll Saw with Quickset II[®] Blade Changing Feature

(Model 40-570)



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SAFETY RULES

Woodworking can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. Safety equipment such as guards, push sticks, hold-downs, featherboards, goggles, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. <u>Always use common sense</u> and exercise <u>caution</u> in the workshop. If a procedure feels dangerous, don't try it. Figure out an alternative procedure that feels safer. REMEMBER: Your personal safety is your responsibility.

This machine was designed for certain applications only. Delta strongly recommends that this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted Delta to determine if it can or should be performed on the product.

Technical Service Manager Delta Machinery 4825 Highway 45 North Jackson, TN 38305 (IN CANADA: 505 Southgate Drive, Guelph, Ontario N1H 6M7)

WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE TOOL. Learn the tool's application and limitations as well as the specific hazards peculiar to it.

- 2. KEEP GUARDS IN PLACE and in working order.
- 3. ALWAYS WEAR EYE PROTECTION.

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. **DON'T USE IN 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 CHILDPROOF** – 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 for which it was not designed.

11. **WEAR PROPER APPAREL.** No loose clothing, gloves, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

12. **ALWAYS USE SAFETY GLASSES.** Wear safety glasses. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses. Also use face or dust mask if cutting operation is dusty. These safety glasses must conform to ANSI Z87.1 requirements. Note: Approved glasses have Z87 printed or stamped on them.

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 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, etc.

17. **USE RECOMMENDED ACCESSORIES.** The use of accessories and attachments not recommended by Delta may cause hazards or risk of injury to persons.

18. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in "OFF" position before plugging in power 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.

24. **MAKE SURE TOOL IS DISCONNECTED FROM POWER SUPPLY** while motor is being mounted, connected or reconnected.

25. **THE DUST GENERATED** by certain woods and wood products can be injurious to your health. Always operate machinery in well ventilated areas and provide for proper dust removal. Use wood dust collection systems whenever possible.

26. **WHEN THE UNIT IS NOT IN USE** the switch should be locked in the "OFF" position to prevent unauthorized use.

27. SOME DUST CREATED BY POWER SANDING, SAWING, GRINDING, DRILLING, AND OTHER CONSTRUCTION ACTIVITIES contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

SAVE THESE INSTRUCTIONS

ADDITIONAL SAFETY RULES FOR SCROLL SAWS

1. **DO NOT** operate your scroll saw until it is completely assembled and installed according to the instructions.

2. **IF YOU ARE NOT** thoroughly familiar with the operation of Scroll Saws, obtain advice from your supervisor, instructor or other qualified person.

3. **YOUR SCROLL SAW MUST** be securely fastened to a stand or workbench. If there is any tendency for the stand or workbench to move during operation, the stand or workbench **MUST** be fastened to the floor.

4. THIS SCROLL SAW is intended for indoor use only.

5. **MAKE SURE** blade is properly tensioned before operating saw.

6. **TO AVOID** blade breakage **ALWAYS** adjust blade tension correctly.

7. **MAKE SURE** the blade teeth point downward toward the table.

8. **NEVER** turn the saw "ON" before clearing the table of all objects (tools, scraps of wood, etc.).

9. **DO NOT** cut material that is too small to be safely supported.

10. **AVOID** awkward hand positions where a sudden slip could cause a hand to move into the blade.

11. ALWAYS keep hands and fingers away from blade.

12. **ALWAYS** adjust holddown foot for each new operation.

13. **DO NOT USE** dull or bent blades.

14. **DO NOT** attempt to saw material that does not have a flat surface, unless a suitable support is used.

15. **MAKE** "relief" cuts before cutting long curves.

16. **NEVER** attempt to cut a curve that is too tight for the blade being used.

17. **WHEN** backing a blade out of a workpiece, the blade may bind in the saw kerf. This is usually caused by sawdust in the kerf. If this happens, turn "OFF" the switch and remove plug from power source outlet. Wedge open the kerf and back blade out of the workpiece.

18. **THE USE** of attachments and accessories not recommended by Delta may result in the risk of injuries.

19. ALWAYS hold the work firmly against the table.

20. **DO NOT** feed the material too fast while cutting. Only feed the material fast enough so that the blade will cut.

21. **NEVER** start the Scroll Saw with the stock pressed against the blade.

22. **WHEN** cutting a large workpiece **MAKE SURE** the material is supported at table height.

23. **USE CAUTION** when cutting material which is irregular in cross section which could pinch the blade before the cut is completed. A piece of moulding for example must lay flat on the table and not be permitted to rock while being cut.

24. **USE CAUTION** when cutting round material such as dowel rods or tubing. They have a tendency to roll while being cut causing the blade to "bite." Use a V-block to control the piece.

25. **ALWAYS** release blade tension before removing the blade from the upper or lower blade holders.

26. **MAKE CERTAIN** table tilting lock is tightened before starting the machine.

27. **NEVER** reach under the table while the machine is running.

28. **NEVER** perform layout, assembly or set-up work on the table while the saw is operating.

29. **ALWAYS STOP** the saw before removing scrap pieces from the table.

30. WHEN THE TOOL IS NOT IN USE, the switch should be locked in the "OFF" position to prevent unauthorized use.

31. **SHOULD** any part of your Scroll Saw be missing, damaged or fail in any way, or any electrical component fail to perform properly, shut off switch and remove plug from power supply outlet. Replace missing, damaged or failed parts before resuming operation.

32. **ADDITIONAL INFORMATION** regarding the safe and proper operation of this product is available from the National Safety Council, 1121 Spring Lake Drive, Itasca, IL 60143-3201, in the Accident Prevention Manual for Industrial Operations and also in the Safety Data Sheets provided by the NSC. Please also refer to the American National Standards Institute ANSI 01.1 Safety Requirements for Woodworking Machinery and the U.S. Department of Labor OSHA 1910.213 Regulations.

33. **SAVE THESE INSTRUCTIONS.** Refer to them often and use them to instruct others.

FOREWORD

Delta Model 40-570 16" Scroll Saw is designed to give high quality, smooth cutting performance with capacity to cut up to 16" wide by 2" thick woodworking materials and has a 3/4" stroke. Delta Model 40-570 comes equipped with; basic machine, integral dust port, variable speed 600-1650 spm, lock-out switch, cast iron table for minimal vibration, Quickset II[®] Blade Chuck System for ergonomic "wrench-free" blade changing, threading and tensioning, accepts wide variety of 5" flat end blades, 45° left tilting for bevel cuts, adjustable dust blower to keep cutting line free of dust.

UNPACKING AND CLEANING

Your new scroll saw is shipped completely assembled in the carton. Carefully unpack the saw and all loose items. Remove the protective coating from the saw table surface. 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 the table surface with a good quality paste wax. Buff out the wax thoroughly to prevent it from rubbing into your workpieces.

CONNECTING SCROLL SAW TO POWER SOURCE POWER CONNECTIONS

A separate electrical circuit should be used for your tools. This circuit should be protected with a fuse or circuit breaker. Have a certified electrician replace or repair a worn cord immediately. Before connecting power, make sure the switch is in the "LOCKED OFF" position and the electric current is of the same characteristics as stamped on the nameplate. Running on low voltage will damage the motor.

WARNING: DO NOT EXPOSE THE TOOL TO RAIN OR OPERATE THE TOOL IN DAMP LOCATIONS.

MOTOR SPECIFICATIONS

Your scroll saw is wired for 110-120 volt, 60 HZ current. Before connecting the saw to the power source, make sure the switch is in the "OFF" position.

EXTENSION CORDS

Use proper extension cord. 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. Fig. 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

MINIMUM GAUGE EXTENSION CORD						
Ampere	Volts	Total Length of	Gage of			
Rating		Cord in Feet	Extension Cord			
0-6	120	up to 25	18 AWG			
0-6	120	25-50	16 AWG			
0-6	120	50-100	16 AWG			
0-6	120	100-150	14 AWG			
6-10	120	up to 25	18 AWG			
6-10	120	25-50	16 AWG			
6-10	120	50-100	14 AWG			
6-10	120	100-150	12 AWG			
10-12	120	up to 25	16 AWG			
10-12	120	25-50	16 AWG			
10-12	120	50-100	14 AWG			
10-12	120	100-150	12 AWG			
12-16	120	up to 25	14 AWG			
12-16	120	25-50	12 AWG			
12-16	120	Greater than 50°	NOT RECOMMENDED			
0-6	240	up to 50	18 AWG			
0-6	240	50-100	16 AWG			
0-6	240	100-200	16 AWG			
0-6	240	200-300	14 AWG			
6-10	240	up to 50	18 AWG			
6-10	240	50-100	16 AWG			
6-10	240	100-200	14 AWG			
6-10	240	200-300	12 AWG			
10-12	240	up to 50	16 AWG			
10-12	240	50-100	16 AWG			
10-12	240	100-200	14 AWG			
10-12	240	200-300	12 AWG			
12-16	240	up to 50				
12-16	240	50-100				
12-16	240	GREATER THAN 1007				

Fig. 1

GROUNDING INSTRUCTIONS

WARNING: THIS TOOL MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.

1. All grounded, cord-connected tools:

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding type plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace damaged or worn cord immediately.

2. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating less than 150 volts:

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in Fig. 2. The tool has a grounding plug that looks like the plug illustrated in Fig. 2. A temporary adapter, which looks like the adapter illustrated in Fig. 3, may be used to connect this plug to a 2-pole receptacle as shown in Fig. 3 if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

WARNING: IN ALL CASES, MAKE SURE THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. NEVER REMOVE GROUNDING PRONG FROM POWER PLUG.

NOTE: In Canada, the use of a temporary adapter is not permitted by the Canadian Electric Code.

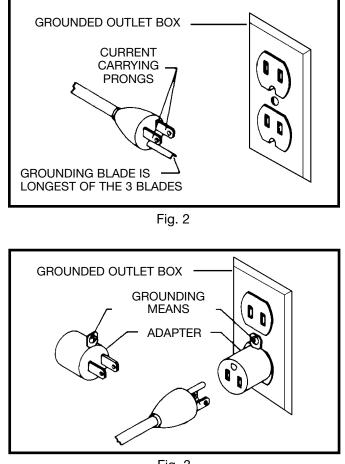


Fig. 3

FASTENING SCROLL SAW TO SUPPORTING SURFACE

Your scroll saw **MUST** be securely fastened to a stand or workbench using the three holes in the base, two of which are shown at (A) Fig. 4.

IMPORTANT: If there is any tendency for the stand or workbench to move during operation, the stand or workbench **MUST** be fastened to the floor.



Fig. 4

ON-OFF SWITCH AND VARIABLE SPEED CONTROL

The on-off switch (A) Fig. 5, and variable speed control (B) are located on the right front side of the scroll saw base, as shown. To turn the saw "ON", push the switch (A) up and to turn the saw "OFF", push the switch (A) down.

This scroll saw is supplied with variable speed control ranging from 600 to 1650 strokes per minute. Turn variable speed control (B) Fig. 5, counterclockwise to reduce speed and clockwise to increase speed.

LOCKING SWITCH IN THE "OFF" POSITION

IMPORTANT: When the tool is not in use, the switch should be locked in the "OFF" position. Grasp the switch toggle (B) Fig. 6, and pull it out as shown. With the switch toggle (B) removed, the switch, (A) Fig. 6, will not operate.

FUSE REPLACEMENT

A fuse holder (A) Fig. 6A, and fuse (B) are located under the rear of the machine and should be removed and checked if the machine does not operate. If the fuse (B) is bad, replace it with a 3 amp fuse.

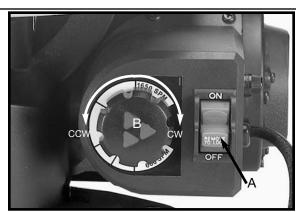
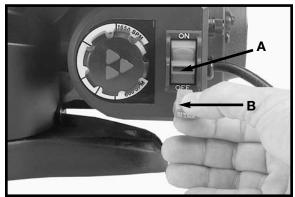


Fig. 5





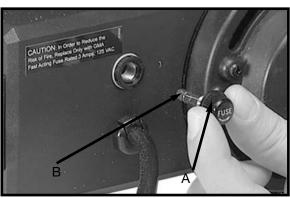


Fig. 6A

TABLE INSERT

The table insert (A) can be assembled to the saw table with the opening in the insert pointing to the front of the table, as shown in Fig. 7, or to the right as shown in Fig. 8.

With the table in the level position, 90° to the blade, the insert (A) should be positioned, as shown in Fig. 7. This allows for the blade to be pivoted forward after it is unclamped from the top blade holder, enabling you to quickly insert the blade into the next hole in a pattern when doing inside-cutting, as you will see later in this manual.

When tilting the table for bevel cutting operations the insert (A) should be positioned as shown in Fig. 8. This allows for clearance of the blade when tilting the table.

A table insert blank (B) Fig. 9, is supplied as standard equipment with your scroll saw and can be used when cutting very small workpieces to give added support to the bottom of the workpiece. Cut a slot into the blank and replace the standard insert (A) with the blank (B). The slot cut into the blank (B) will only be as wide as the blade giving maximum support to the bottom of the workpiece. Adhesive backed spacer pads (C) are also supplied for adjusting the table insert height relative to the table surface. Place three pads an equal distance apart on a cleaned surface to be applied to the blank insert. Pads can be stacked in order to achieve desired insert height.

CHANGING BLADES

1. WARNING: TO AVOID INJURY FROM ACCIDENTAL STARTING ALWAYS TURN SWITCH "OFF" AND REMOVE SWITCH INSERT AND DISCONNECT THE POWER CORD BEFORE REMOVING OR REPLACING BLADE.

2. Remove table insert (A) Fig. 10, and release blade tension by pulling tension lever (B) forward, as shown.

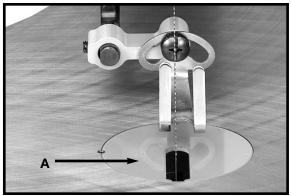


Fig. 7

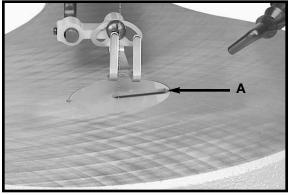


Fig. 8

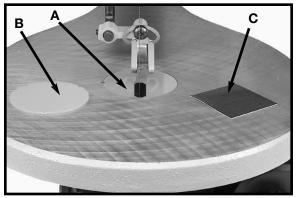


Fig. 9

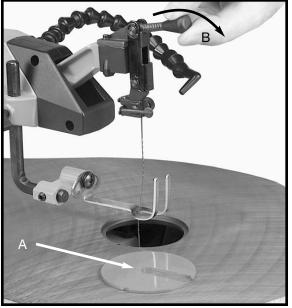


Fig. 10

3. Push upper blade chuck locking lever (C) Fig. 11, to the rear as shown. This will automatically release the blade (D) from the upper chuck (E).

Fig. 11

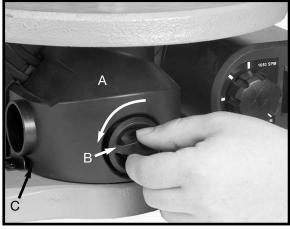


Fig. 12

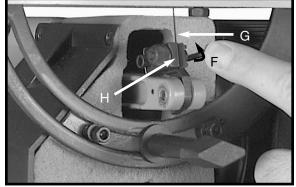


Fig. 13

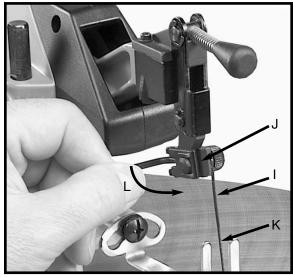


Fig. 14

4. Remove the dust collection cup (A) by rotating knob (B) 90° as shown in Fig. 12. Slide dust cup out of the guides (C) by pulling it toward the front. **NOTE: DO NOT OPERATE THE UNIT WITH THE DUST CUP REMOVED.**

5. Push lower blade chuck locking lever (F) Fig. 13, to the rear as shown. This will automatically release the blade (G) from the lower chuck (H).

6. Insert new blade (I) into the upper blade holder (J) making certain the blade teeth are pointing down toward the table. Push upper blade chuck locking lever (L) to the front as shown in Fig. 14. Insert new blade into the lower blade holder Fig. 13 in the same manner.

7. Apply blade tension by referring to the following section "**ADJUSTING BLADE TENSION.**"

ADJUSTING BLADE TENSION

Tension is applied to the blade when the blade tension lever (A) Fig. 15, is in the rear position, as shown. When the lever (A) is moved forward, as shown in Fig. 16, blade tension is released.

To increase blade tension, turn lever knob (B) Fig. 16, clockwise and to decrease blade tension, turn knob (B) counterclockwise. When adjusting blade tension, lever (A) should be in the forward position, as shown in Fig. 16. **NOTE:** It is necessary to adjust the blade tension knob (B) only when the blade is removed from both upper and lower blade holders and a new or different type of blade is assembled to the holders. It is not necessary to adjust blade tension when the blade is removed and replaced in only the upper blade holder as in performing inside cutting operations.

Adjusting the blade for proper tension is usually accomplished by trial and error; however, a good method to use is to pluck the rear of the blade, like a guitar string, after the tension lever (A) Fig. 15, is moved to the rear. A high-pitched tone of the blade should be heard and this usually indicates proper tension. Finer blades require more tensioning (a higher pitched sound) while thicker blades require less tension.

ADJUSTING CLAMPING ACTION OF UPPER AND LOWER BLADE HOLDER CHUCK

Different widths of scroll saw blades will make it necessary to adjust the clamping action of the upper and lower blade holder chuck. It should be noted, however, that very little adjustment is necessary and very little clamping force is required to hold the blade satisfactorily. As a rule of thumb, looking down at the table with the table insert slot in the 6 o'clock position, resistance on the blade locking lever should be felt when the upper blade locking lever reaches the 7 o'clock position, or when the lower blade locking lever reaches the 5 o'clock position.

Move the blade holder chuck locking lever (A) Fig.
to the rear (open) position, as shown.

2. Turn chuck clamping knob (B) Fig. 17, clockwise to tighten and counterclockwise to loosen the clamping action of the blade holder chuck. Very little movement of knob (B) will be necessary. **NOTE:** Only the upper chuck is shown. Clamping action of the lower chuck is adjusted in the same manner and can be accessed by removing dust cup shown in Fig. 12.

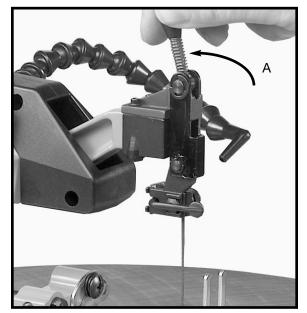


Fig. 15

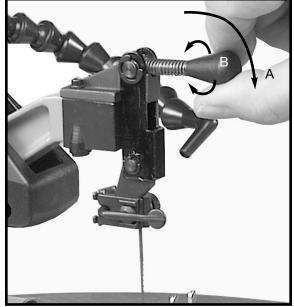


Fig. 16

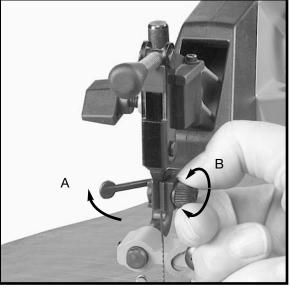


Fig. 17

TILTING THE TABLE

The table on your scroll saw can be tilted 45° to the left for bevel cutting operations by removing the dust cup as shown in Fig. 12 and loosening table lock knob (A) Fig. 18, tilt the table to the desired angle indicated on degree scale (B) Fig. 19 and tighten lock handle (A) Fig. 18.

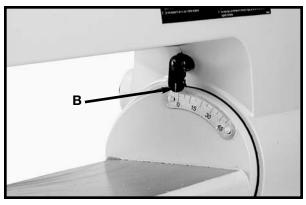


Fig. 19

When bevel cutting, the holddown (B) Fig. 20, can be adjusted to lay flat on the stock by loosening screw (C) and tilting the holddown (B) accordingly. Then tighten screw (C).

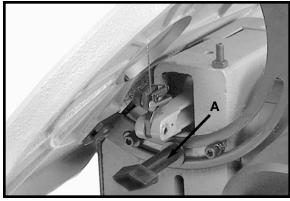


Fig. 18

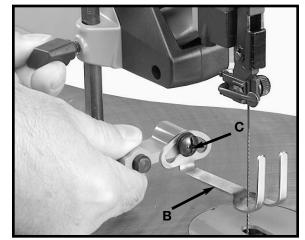


Fig. 20

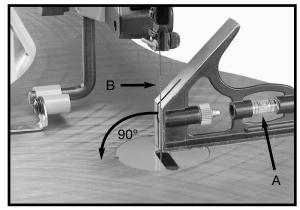


Fig. 21

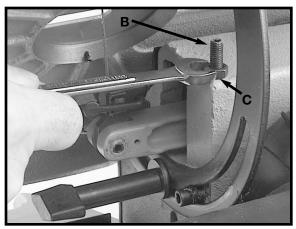


Fig. 22

LEVELING THE TABLE

1. Loosen table lock knob as shown in Fig. 18 and move the table all the way to the right until angle indicator shown in Fig. 19 is on "0".

2. Using a square that includes a level, check to see if the table is level (A) Fig. 21, and is 90° to the saw blade (B), as shown.

3. If the table is not at 90° to the blade, adjust the table accordingly making certain screw (B) Fig. 22, contacts bottom of table surface when table is 90° to the blade. Screw (B) can be adjusted by loosening nut (C), turn screw (B) in or out the desired distance and tighten nut (C).

Note: After adjusting table, reposition the angle indicator (B) Fig. 19 to "O" degrees.

ADJUSTING HOLDDOWN

The holddown (A) Fig. 23, should be adjusted so it contacts the top surface of the work (D) being cut by loosening lock knob (B) and moving holddown rod (C) up or down. Then tighten lock knob (B). The holddown (A) Fig. 23, may be adjusted front to rear, by loosening set screw (B) Fig. 24, and positioning the holddown in the desired location. Once the holddown is in the desired location, tighten set screw (B), Fig. 24.

ADJUSTING DUST BLOWER

The dust blower (A) Fig. 24, may be positioned to direct air to the most effective point on the cutting line.

DUST COLLECTION CUP

A dust collection cup (A) Fig. 25 is provided and can be attached to a shop vacuum system by utilizing the port covered by cap (B).

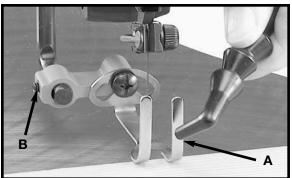
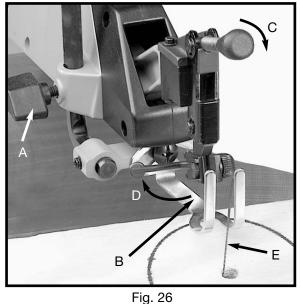


Fig. 24

INSIDE CUTTING

A blade threaded through a hole in the workpiece is inside cutting. The Delta 16" Scroll Saw has the capability of performing this operation quickly and easily.

Loosen lock knob (A) Fig. 26, and raise the holddown (B). Release blade tension by moving tension lever (C) forward and loosen upper blade holder by moving lever (D) to the rear as shown. This will release the blade (E). Insert the blade (E) into the next hole in the pattern, as shown.



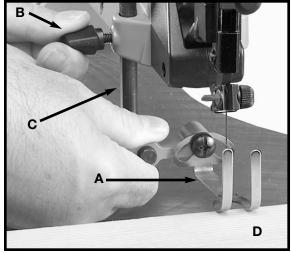


Fig. 23

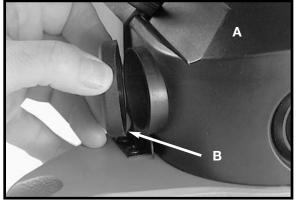


Fig. 25

Reassemble blade (E) Fig. 27, and tighten blade by moving lever (D) forward (closed). Move tension lever (C) to the rear as shown and lower holddown (B). You are ready to make the next inside cut.

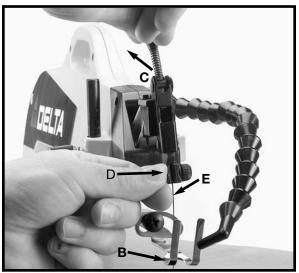


Fig. 27

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LUBRICATION

To keep the scroll saw operating at peak efficiency, we recommend that a simple maintenance procedure be performed after each 20 hours of use (approximately) as follows:

1. MAKE CERTAIN THE MACHINE IS DISCON-NECTED FROM THE POWER SOURCE.

2. Tilt the table 45° to the left as shown in Fig. 28.

3. Remove four rubber grommets (A) Fig. 29 that cover the lubrication access holes.

4. Lubricate the pivot points in each of the four access holes with a few drops of light machine oil as shown in Fig. 30.

5. Reassemble the four grommets as shown in Fig. 29, to machine.

6. Apply lightweight grease or anti-sieze to lubricate the tensioning lever (A) Fig. 15 where it pivots on the upper chuck .

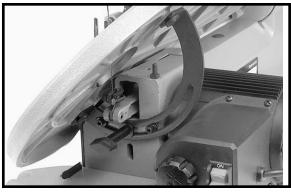


Fig. 28

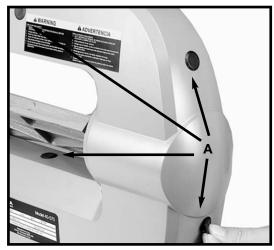


Fig. 29



Fig. 30

CHOICE OF BLADE AND SPEED

Your scroll saw will accept a wide variety of 5" flat end blades and can be operated at any speed from 600 to 1650 cutting strokes per minute. Consider the following as a general guideline for selecting a blade and operating speed.

1. Use a finer blade for cutting thin workpieces, for hard materials, or when a smoother cut is required.

2. Use a coarser blade for cutting thick workpieces, when making straight cuts or for medium to soft materials.

3. Use a blade that will have 2 teeth in the workpiece at all times.

4. Most blade packaging is marked with the size of the wood the blade is intended to cut and the minimum radius which can be cut with that blade.

5. Slower speeds are generally more effective than faster speeds when using thin blades and making intricate cuts.

6. Always start at a slow speed and gradually increase the speed until the optimum cutting speed is obtained.

BLADE BREAKAGE

Blade breakage is usually caused by one or more of the following:

- 1. Bending the blade during installation.
- 2. Improper blade tension.
- 3. Improper blade selection for the work being cut.
- 4. Forcing the work into the blade too rapidly.
- 5. Cutting too sharp a turn for the blade being used.
- 6. Improper blade speed.

FOLLOWING A LINE

With your scroll saw you should be able to cut a straight or curved line with ease. Most beginners will experience blade wandering, however, they eventually learn to control it as they become more familiar with the machine. Use scrap material to practice cuts before starting a project. This enables you to develop your own way of cutting and you will find out what you can and cannot do with your saw.

Always hold the work firmly against the table and do not feed the workpiece too fast while cutting. Feed the workpiece only fast enough so that the blade will cut. Scroll saws cut faster across the grain than they do with the grain. Allow for this tendency when cutting patterns that shift rather quickly from with-the-grain cuts to cross-grain cuts.

Make "relief" cuts before cutting long curves and never attempt to cut a curve that is too tight for the blade being used.

ACCESSORIES

The testing of this unit has been accomplished with the following accessories. For safest operation, it is recommended that only these accessories be used with this unit.

WARNING: Since accessories other than those listed have not been tested with this unit, use of such accessories could be hazardous.

CATALOG NO.	DESCRIPTION
40-673	Assorted PGT [®] Scroll Saw Blades
25-869	Magnetic Work Light

	SCROLL SAW BLADES						
Catalog Number	Material Cut	Width	Thickness	Teeth Per Inch			
40-058	Steel, Iron, Lead, Copper, Aluminum	.070	.018	26			
40-159	Pewter, Paper, Felt	.075	.018	20			
40-160	Steel, Iron, Lead, Copper, Brass	.078	.022	15			
40-161	Aluminum, Pewter	.085	.022	15			
40-164	Sheet Metal, Iron, Aluminum, Copper, Brass, Pewter, Lead, Wood	.110	.018	20			
40-165	Mica, Brake Lining, Steel, Iron, Lead, Copper, Brass, Pewter, Aluminum	.250	.028	20			
40-184	Wood Veneer, Plastics, Bakelite, Celluloid, Hard Rubber, Ivory, Extremely Thin Materials	.029	.012	20			
40-185	Plastics, Celluloid	.035	.015	15			
40-187	Bakelite	.090	.022	7			
40-188	Ivory, Wood	.100	.022	7			
40-191	Wallboard, Pressed Wood, Lead, Wood, Bone, Felt, Copper, Paper, Ivory, Aluminum	.110	.022	15			
40-192	Hard and Soft Wood	.110	.022	10			
40-193	Hard and Soft Wood	.187	.025	10			
40-194	Hard and Soft Wood	.250	.028	7			
40-195	Pearl, Pewter, Mica	.041	.019	30			
40-196	Pressed Wood, Sea Shells	.065	.023	20			
40-198	Hard Leather	.085	.022	12			



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