

# Radley®

## 16" VARIABLE SPEED SCROLL SAW

### OWNER'S MANUAL



3 Year Limited Warranty on tool



**READ ALL INSTRUCTIONS BEFORE FIRST USE.  
KEEP THIS MANUAL FOR FUTURE REFERENCE.  
KEEP AWAY FROM CHILDREN.**



**WEAR CSA APPROVED  
EYE PROTECTION**



**WEAR EAR  
PROTECTION**



**WEAR FACE  
PROTECTION**

**PRODUCT SPECIFICATIONS**

<b>16" VARIABLE SPEED SCROLL SAW</b>	
Motor	120V~ 60 Hz, 1.2 Amp
No Load Variable Speed	550 - 1,600 SPM
Blade Length	5" (127 mm)
Blade TPI	15T on machine and 18T as accessory
Stroke Length	3/4" (19mm)
Max Cutting Depth	2" (50 mm)
Max Cutting Width	16" (406mm)
Table Size	16-1/4" L x 10" W (41 x 25 cm)
Table tilting angle	45°
Throat Depth	16"
Cord	10 foot SJT
Blade Compatibility	5" pinned end and (pin less) plain end blades
Replacement Blade	1344-718
Weight	25.5 Lb (12kg)

**NEED ASSISTANCE?**

Call us on our toll- free customer support line:

1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Standard Time)




- Technical questions
- Replacement parts
- Parts missing from package

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**GENERAL SAFETY WARNINGS**

**⚠ WARNING:** Before using this tool or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions. The important precautions, safeguards and instructions appearing in this manual are not meant to cover all possible situations. It must be understood that common sense and caution are factors which cannot be built into the product.

SYMBOL	MEANING
<p data-bbox="204 542 497 600"><b>⚠ DANGER</b></p> 	<p data-bbox="632 542 1311 627"><b>ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA Z94.3 or ANSI SAFETY STANDARD Z87.1</b></p> <p data-bbox="632 636 1302 721">FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection.</p> <p data-bbox="632 730 1286 784"><b>Non-compliant eyewear can cause serious injury if broken during the operation of a power tool.</b></p>
<p data-bbox="188 891 507 949"><b>⚠ WARNING</b></p> 	<p data-bbox="632 927 1311 1012">Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.</p>
<p data-bbox="188 1169 507 1227"><b>⚠ WARNING</b></p> 	<p data-bbox="632 1124 1311 1209"><b>WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT.</b></p> <p data-bbox="632 1218 1311 1352">Dust that is created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals that are known to cause cancer, birth defects, or other genetic abnormalities.</p> <p data-bbox="632 1361 957 1393">These chemicals include:</p> <ul data-bbox="632 1402 1311 1720" style="list-style-type: none"> <li>● Lead from lead-based paints</li> <li>● Crystalline silica from bricks, cement, and other masonry products</li> <li>● Arsenic and chromium from chemically treated lumber the level of risk from exposure to these chemicals varies, according to how often this type of work is performed. In order to reduce exposure to these chemicals, work in a well-ventilated area, and use approved safety equipment, such as a dust mask that is specifically designed to filter out microscopic particles.</li> </ul>

## **READ ALL INSTRUCTIONS**

**WARNING !** When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before attempting to operate this product. Save these instructions for future reference.

1. **KEEP GUARDS IN PLACE** and in working order.
2. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
3. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
4. **DON'T USE IN DANGEROUS ENVIRONMENTS.** Don't use power tools in damp or wet locations or expose them to rain. Keep work area well lit.
5. **KEEP CHILDREN AWAY.** All visitors should be kept at a safe distance from work area.
6. **MAKE WORKSHOP CHILDPROOF** with padlocks, master switches or by removing starter keys.
7. **DO NOT FORCE THE TOOL.** It will do the job better and safer at the rate for which it was intended
8. **USE THE RIGHT TOOLS.** Don't force the tool or attachment to do a job for which it was not designed.
9. **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewellery that may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
10. **ALWAYS WEAR SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact-resistant lenses, they are NOT safety glasses.
11. **DON'T OVERREACH.** Keep proper footing and balance at all time.
12. **MAINTAIN TOOLS WITH CARE.** Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged have them repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.
13. **DISCONNECT TOOLS.** When not in use, before servicing and when changing accessories such as blades, bits, cutters, disconnect tools from the power supply.
14. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in "off" position when plugging in.
15. **USE RECOMMENDED ACCESSORIES.** Consult the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
16. **NEVER STAND ON TOOLS.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
17. **CHECKED DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function-check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
18. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
19. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool unit until it comes to a complete stop.
20. **DO NOT ALTER OR MISUSE THE TOOL.** Any alteration or modification is considered misuse and may result in serious personal injury.
21. **USE THE PROPER EXTENSION CORD.** Make sure to use an extension cord that is heavy enough to carry the current required by the tool. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating of the tool.

## ***SPECIFIC SAFETY RULES FOR SCROLL SAW***

1. Use the scroll saw on a firm, level surface with adequate space for handling and supporting the workpiece.
2. Be sure the scroll saw cannot move when operated. Secure the scroll saw to a workbench or table with wood screws or bolts with washers and nuts.
3. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED.** Moving guards must move freely and close instantly.
4. Check for proper assembly and proper alignment of moving parts. Understand the function and proper use of the On/Off switch.
5. This scroll saw is intended for use in dry conditions, and for indoor use only.
6. Do not cut pieces of material narrower than 3" (75 mm) wide to hold by hand outside the blade guard.
7. Avoid awkward hand positions where a sudden slip could cause a hand to move into the blade.
8. Always use the blade guard to avoid possible injury due to blade breakage.
9. Never leave the scroll saw work area with the power on, or before the machine has come to a complete stop.
10. Do not perform layout, assembly or set up work on the table while the cutting tool is in operation.
11. Never turn your scroll saw on before clearing the table of all objects: (tools, scraps of wood, etc.) except for the workpiece and related feed or support devices for the operation planned.
12. Do not reach under the upper arm.
13. Never use the scroll saw near flammable liquids, vapors, or gases.
14. Keep the saw with proper footing on a table to decrease noise and vibration.
15. This scroll saw is designed for use on wood and wood-like products only. Never cut metals or masonry products with this tool.
16. To avoid injury caused by pieces thrown from accessories, use only recommended accessories designed for this saw. Follow the instructions supplied with the accessory. The use of improper accessories may cause risk of injury.
17. Do not feed the workpiece too fast while cutting. Only feed the workpiece at the rate the saw will cut.
18. Install the blade with the teeth pointing downward.
19. Do not start the saw with the workpiece pressing against the blade. Slowly feed the workpiece into the moving blade.
20. Use caution when cutting round or irregularly shaped work pieces. Round items will roll and irregularly shaped work pieces can pinch the blade.
21. **To avoid injury when operating the scroll saw:**
  - If you are not thoroughly familiar with the operation of scroll saws, obtain advice from a qualified person.
  - Before starting the saw, make sure the blade tension is correct. Re-check and adjust tension as needed.
  - Make sure the table is locked into position before starting the saw.
  - Do not use dull or bent blades.
  - When cutting a large workpiece, make sure the material is supported at the table height.
  - Turn the saw Off and unplug the power cord if the blade jams in the workpiece while being backed out. This condition is usually caused by sawdust clogging the line you are cutting. If this happens, turn Off the scroll saw and unplug the power cord. Wedge open the workpiece and back out the blade.
  - Do not use if blade guard is damaged or missing.
  - Do not clear away cut-off pieces until blade has stopped and the saw is turned off
22. **To avoid contact with rotating equipment:**
  - Do not position your fingers where they could contact the blade if the workpiece should unexpectedly shift or your hand should slip.
  - Do not cut a workpiece too small to be held safely.
  - Do not reach under the scroll saw table when the motor is running.
  - Do not wear loose clothing or jewellery. Roll long sleeves above the elbow. Tie back long hair.
23. **To avoid back injury:**
  - Obtain help when it is necessary to raise the scroll saw more than 10" (25.4 cm).
  - Bend your knees when lifting the scroll saw.

24. Have your tool repaired by a qualified person. This electric tool complies with the relevant safety rules. Repairs should only be carried out by a qualified person using original spare parts, otherwise this may result in considerable danger to the user.















**WARNING:**

**ALL ELECTRICAL CONNECTIONS MUST BE DONE BY A QUALIFIED ELECTRICIAN. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY! ALL ADJUSTMENTS OR REPAIRS MUST BE DONE WITH THE MACHINE DISCONNECTED FROM THE POWER SOURCE. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY!**

## SAFETY SYMBOLS

**⚠️ WARNING:** Some of the following symbols may appear on your tool. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

	WARNING: Please read all the safety and operating instructions carefully before using this tool. Please pay particular attention to all sections of this User Guide that carry warning symbols and notices. Some of the following symbols may be used on this tool.
 	Observe caution and safety notes. To reduce the risk of injury, user must read and understand User Guide before using this tool.
	Wear ear protection.
	Wear protective helmet and eye protection.
	Switch off and remove plug from power source before cleaning or maintenance.
	Do not use in the rain or leave outdoors while it is raining.
	Keep bystanders away.
 	Don't touch the inlet and outlet when the vacuum cover is opened, or the tube is removed.
	Double insulation.
	Remove plug from the power source immediately if the power cord is damaged or cut.

  
226002  
VS4005B

This symbol designates that this tool is listed with Canadian and U.S. requirements by ETL Testing Laboratories, Inc.  
Conforms to UL No.987-8th Edition  
Certified to the CSA C-22.2 No.71.2-10+Upd.1



## Extension Cord Safety

### POWER SUPPLY

**WARNING: YOUR TOOL MUST BE CONNECTED TO A 120V WALL OUTLET, WITH A MINIMUM 15-AMP BRANCH CIRCUIT AND USE A 15-AMP TIME DELAY FUSE OR CIRCUIT BREAKER. FAILURE TO CONNECT IN THIS WAY CAN RESULT IN INJURY FROM SHOCK OR FIRE.**

### GROUNDING

Your tool must be properly grounded. Not all outlets are properly grounded. If you are not sure if your outlet is properly grounded, have it checked by a qualified electrician.

**WARNING: IF NOT PROPERLY GROUNDED, THIS TOOL CAN CAUSE ELECTRICAL SHOCK, PARTICULARLY WHEN USED IN DAMP LOCATIONS. TO AVOID SHOCK OR FIRE, IF THE POWER CORD IS WORN OR DAMAGED IN ANY WAY, HAVE IT REPLACED IMMEDIATELY.**

If this tool should 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 a cord having an equipment grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**WARNING: TO MAINTAIN PROPER GROUNDING, DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER.**

### 120V OPERATION

As received from the factory, your tool is ready to run for 120V operation. This machine is intended for use on a circuit that has an outlet and a plug which looks like the one illustrated in Fig.1.

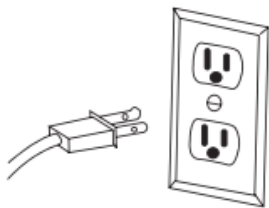


Fig.1

**WARNING: DO NOT USE A TWO-PRONG ADAPTOR(S) FOR THEY ARE NOT IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. NEVER USE IN CANADA.**

### EXTENSION CORDS

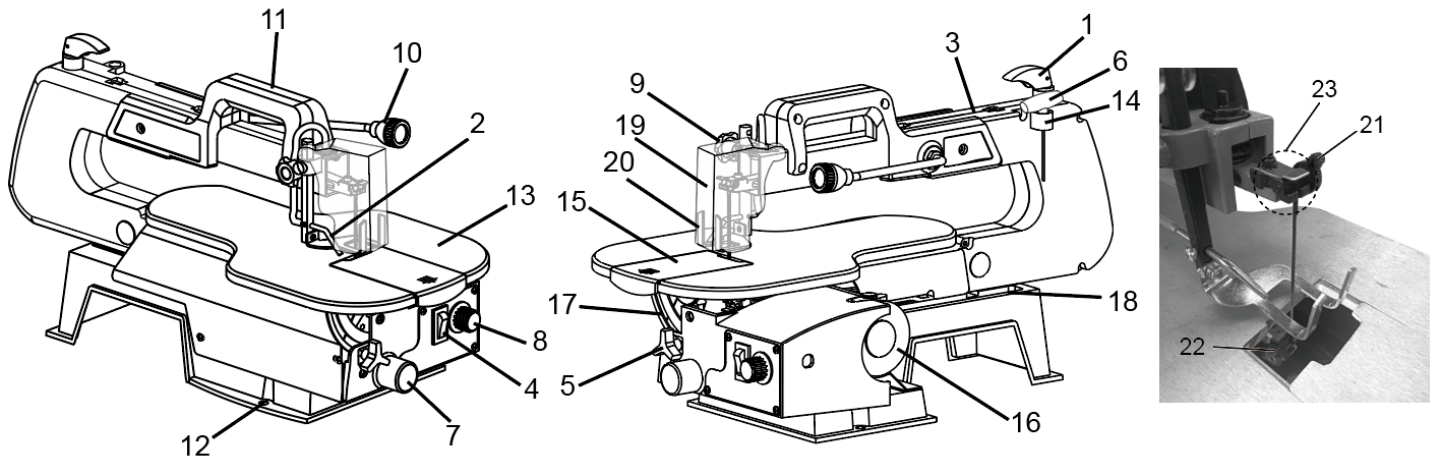
The use of any extension cord will cause some loss of power. If you do not have a choice, use the table in Fig.2 to determine the minimum wire size (A.W.G-American Wire Gauge) extension cord needed. Use only 3-wire extension cords which have 3-prong grounding type plugs and 3-hole receptacles which accept the tool's plug. For circuits that are further away from the electrical circuit box, the wire size must be increased proportionately in order to deliver ample voltage to the motor. Refer to Fig.2 for wire length and size.

### WARNING

MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

<b>MINIMUM GAUGE (AWG) EXTENSION CORD (120 V use only)</b>					
<b>Amperage rate</b>		<b>Total length</b>			
More than	Not more than	25' (7.5 m)	50' (15 m)	100' (30 m)	150' (45m)
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Applicable	

**KNOW YOUR SCROLL SAW**



- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| 1. Blade tension release lever      | 13. Work table                      |
| 2. Sawdust blade blower             | 14. T-shaped hex wrench storage     |
| 3. Upper arm                        | 15. Quick release table insert      |
| 4. Locking ON/OFF Switch            | 16. Motor                           |
| 5. Table locking knob               | 17. Bevel scale                     |
| 6. T-shaped hex wrench              | 18. Blade storage                   |
| 7. 1/14" (32mm) Sawdust vacuum port | 19. Blade guard                     |
| 8. Variable speed control knob      | 20. Blade guard foot                |
| 9. Blade guard foot lock knob       | 21. Upper blade holder locking knob |
| 10. Flexible LED light              | 22. Blade and bevel locking knob    |
| 11. Carrying handle                 | 23. Upper blade holder              |
| 12. Base mounting hole              |                                     |

**ASSEMBLY AND OPERATION**

**FASTENING THE SCROLL SAW TO A STAND, WORKBENCH OR PLYWOOD**

For safer operation, the scroll saw should be securely fastened to a sturdy stand, workbench or a piece of plywood that can be clamped to a stand or workbench. If there is any tendency for the stand or workbench to move during operation, the stand or workbench should also be fastened to the floor.

**INSTALLING BLADES**

**NOTE:** The teeth of the blade should always point downward to avoid uncontrollable lifting of the workpiece.

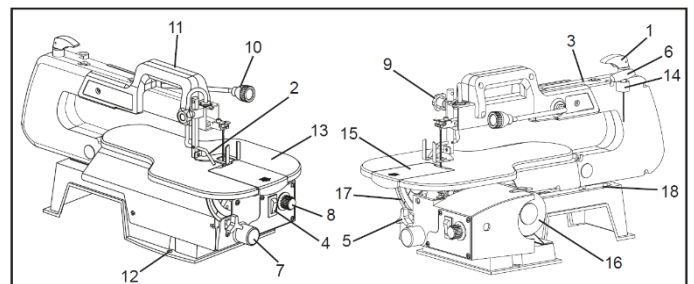


Fig. 1

## INSTALLING/REPLACING PINLESS (PLAIN END) BLADES (Fig. 1~4)

1. Turn the scroll saw OFF and unplug from the power source.
2. Loosen the tension by lifting the quick tension release lever (1-Fig. 1).
3. Tilt the table to the 0° bevel setting and lock into position with the table locking knob (5-Fig. 1).
4. Loosen the table insert locking lever (2) and pull out the quick release table insert (3)(Fig. 2).

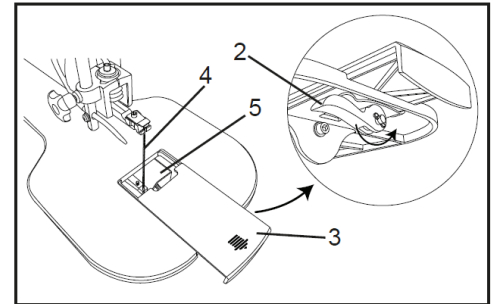


Fig. 2

**NOTE:** Pull out the table insert for a better view of the lower blade holder.

4. Install the blade (4) through the access hole (5) in the table with teeth pointing down.(Fig. 2)
5. Insert the blade (4) into the lower blade holder slot (6), then tighten the lower blade holder locking knob (7) . (Fig. 3)

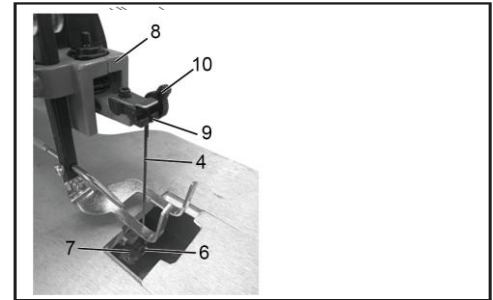
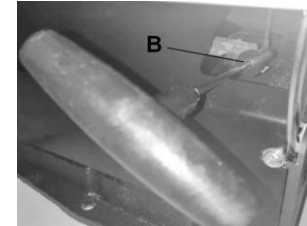
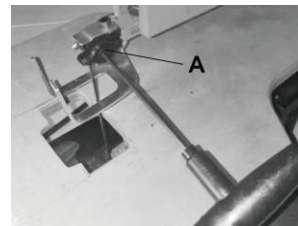


Fig. 3

**Note:** Insert the T-shaped hex wrench to the lower blade holder locking knob. Rotate the T-shaped hex wrench Clockwise/counter-clockwise to tight/loosen the blade. See picture (A) below.

6. Apply slight downward pressure against the upper arm (8) when installing the blade into the upper blade holder. (Fig. 3)
7. Insert the other end of the blade (4) into the upper blade holder slot (9), and then tighten the upper blade holder locking knob (10). (Fig. 3)

**Note:** Insert the T-shaped hex wrench to the upper blade holder locking knob. Rotate the T-shaped hex wrench Clockwise/anticlockwise to tight/loosen the blade. See picture (B).



## ADJUSTING BLADE TENSION

Push the Blade tension release lever (11) downward. Increase the tension on the blade by turning the Blade tension release lever (11) clockwise until the blade will “sing” when plucked. To reduce tension, turn the Blade tension release lever (11) counterclockwise. To avoid breaking the blade during use, do not over tighten (Fig. 4).

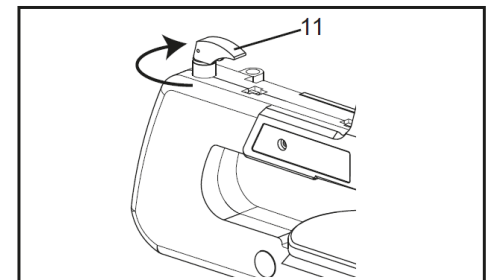


Fig. 4

**NOTE:** The blade tension release lever must always be down before adjusting blade tension. Lift the blade tension release lever upward only during blade-changing operations. If the blade is over-tightened, it will be difficult to push down the blade tension release lever.

## INSTALLING/REPLACING PIN END BLADES (Fig. 1, 2, 4, & 5)

Loosen the tension by lifting up the Blade tension release lever. (1-Fig. 1)

1. Tilt the table to the 0° bevel setting and lock the bevel knob (5-Fig. 1).
2. Loosen the table insert locking lever (2) and pull out the quick release table insert (3). (Fig. 2)

**NOTE:** Pull out the table insert for a better view of the lower blade holder

3. Install the blade by inserting one end of it through the access hole (5-Fig. 2) in the table. Hook the lower blade pin in the pin recess of the lower blade holder (12) and then the upper blade pin of the upper blade holder (13). (Fig. 5)

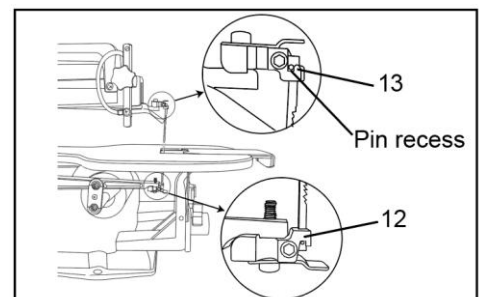


Fig. 5

**Note:** Use the T-shaped hex wrench to tight/loosen the upper and lower blade holder locking knob.

4. Check the pins are properly located in the pin recess of upper (13) and the lower (12) blade holders (Fig.5).
5. See “Adjusting blade tension” above.

## STORAGE (FIG. 6)

The right rear side of the body (1) has a storage (2) designed to store the T-shaped hex wrench (3).

The blade storage (4) is located on the right rear side of the scroll saw body. The blade storage can conveniently store extra pin-end and plain-end blades.

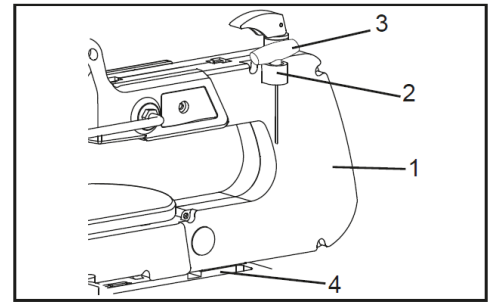


Fig. 6

## SAWDUST EXTRACTION PORT (FIG. 7)

This scroll saw will accept a 1-1/4" (32mm) hose or vacuum accessory (not provided) to be connected to the sawdust extraction port (1) on the front

of the base. If excessive sawdust buildup occurs inside the base, use a wet/ dry vacuum cleaner or manually remove sawdust by first unplugging the saw from the power source, then removing the two screws (2) on the left side of saw holding the plate cover. After cleaning all sawdust buildup, re-attach the plate cover and screws (2) before restarting the saw. This will keep your saw cutting efficiently.

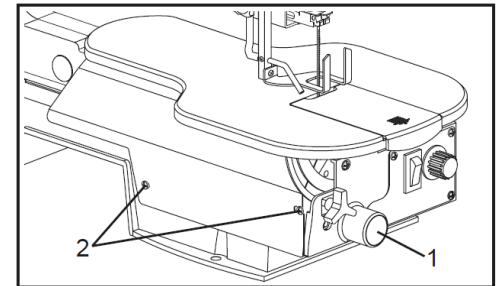


Fig. 7

## BEVEL STOP ADJUSTMENT

### 90 ° (0 °) BEVEL ADJUSTMENT (FIG. 8, 9)

1. Remove the foot of the blade guard (2) using the Phillips® screwdriver to loosen the screw (1). (Figure 8)
2. Loosen the table lock knob (3) and move the table (4) until it is approximately at a right angle to the blade. (Figure 9)
3. Use a combination square (6) to position the table exactly 90 ° (0 °) to the blade (5). If there is space between the square and the blade, adjust the angle of the table until the gap is closed. (Figure 9)
4. Lock the table lock knob (3) under the table (4) to prevent it from moving.
5. When the blade is exactly 90 ° (0 °) from the table, loosen the bevel indicator screw (7) with a Phillips® screwdriver.
6. Set the bevel scale (8) to the "0" mark on the bevel scale and retighten the indicator screw (7).
7. Attach the blade guard foot (2) with the Phillips® screwdriver so the foot rests flat against the table and tighten. (Figure 8)

**NOTE:** Avoid placing the edge of the table against the top of the motor, which could cause noise when the saw is running.

### BLADE GUARD FOOT ADJUSTMENT (FIG. 10)

**NOTE:** The user must maintain a constant downward pressure on the workpiece when cutting.

The blade guard foot (1) is not designed to hold the workpiece, but rather to help prevent the workpiece from being raised excessively. When cutting at an angle, the blade guard (1) must be adjusted so that it is parallel to the table and lies flat on the workpiece.

1. To adjust, loosen the screw (2), tilt the blade guard foot (1) so that it is parallel to the table, and tighten the screw.
2. Loosen the blade guard foot lock knob (3) to raise or lower the blade guard foot (1) until it rests slightly above the workpiece. Tighten the blade guard foot lock knob (3).

**NOTE:** To remove the blade guard foot (1), loosen the screw (2) using a Phillips® screwdriver to turn the screw counterclockwise.

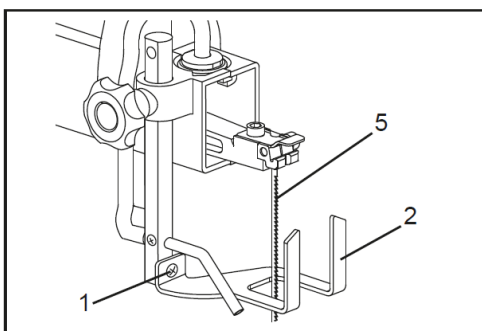


Fig. 8

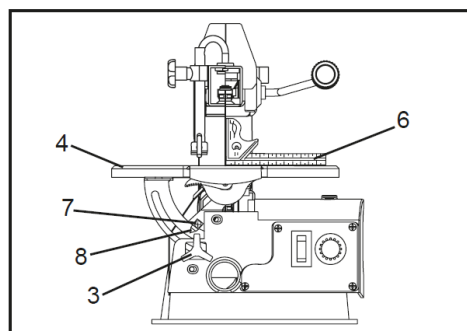


Fig. 9

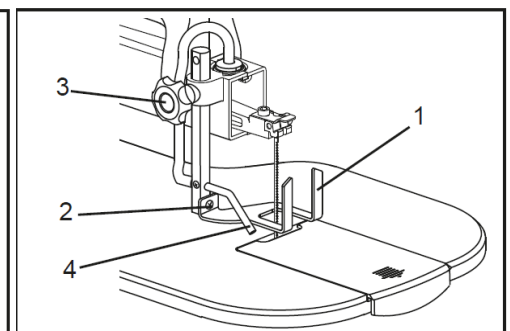


Fig. 10

## OPERATION

### THE DUST BLOWER (FIG. 10)

The saw dust blower (4) must be positioned so that it points at the blade and workpiece to blow sawdust out of line of sight when cutting. It is not designed to blow all the sawdust off the worktable.

### VARIABLE SPEED KNOB (FIG. 11)

This saw is equipped with a variable speed control knob (1). Blade stroke speed can be adjusted simply by turning the variable speed control knob. To increase speed, turn the knob clockwise. To decrease speed, turn knob counterclockwise.

### ON / OFF SWITCH (FIG. 11)

The On/Off switch is used to turn the tool on and off.

To turn the tool press "ON", move the switch upwards (On position),

To turn the tool "Off", move the switch downwards (Off position).

This switch comes with a removable safety key . When the safety key is removed from the switch and placed in a safe location, unauthorized persons or children can't turn the switch to the

ON position. It is recommended to always remove the safety key from the switch whenever the tool not in use. To remove the safety key, make sure the switch is in the Off position and simply pull out the safety key.

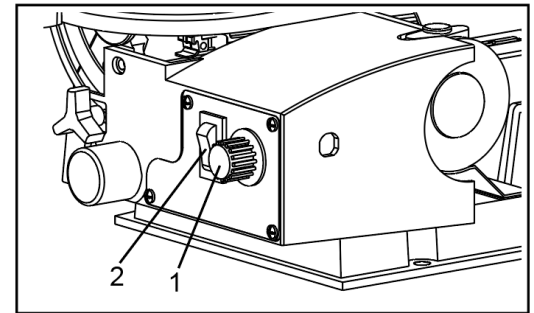


Fig. 11

### The LED light turn on/off with the tools

### BLADE GUARD

The blade guard must be placed in the "down" position whenever the saw is turned ON.

### BASIC OPERATION OF THE SCROLL SAW

**NOTE:** The scroll saw is primarily used for cutting curves.

1. This scroll saw is designed to cut wood and non-ferrous metals. See Optional Accessories to choose the correct blade for your workpiece. For complicated cuts, a flat-tipped blade is recommended.
2. Make sure the teeth of the blade point down toward the table for a proper cut.
3. Press the workpiece against the table.
4. Turn on the switch and guide the wood into the blade slowly because the blade teeth are very small and can only remove the wood when they are on the down stroke.
5. When using non-spiral blades, feed the wood only forward. Take extra care not to bend or twist the blade while cutting to maximize blade life.
6. Best results are obtained when cutting wood less than one inch thick. When the wood is thicker than an inch, guide the wood very slowly towards the blade.
7. Be prepared to offset the tendency of the blades, follow the grain of the wood for a precise cut.
8. When cutting material that has an uneven cross section, you may pinch the blade before the cut is complete. A piece of molding, for example, should rest on the table and should not be allowed to sway while cutting.
9. Be careful when cutting round material such as dowel rods or pipes. They have a tendency to roll while being cut, causing the blade to bite down. Use a V-block to control the piece.
10. The teeth of the saw blades wear out and therefore must be replaced frequently for the best cutting result.

### ADJUSTING THE BEVEL ANGLE (FIG. 12)

Bevel cuts up to 45 degrees to the left are possible on this unit.

1. Lay out design or secure template to workpiece (1).
2. Move the blade guard foot (3) to the highest position by loosening the blade guard look knob (2) and retighten.
3. Tilt the table (4) to the desired angle by loosening the table lock knob (5) and move the table to the proper angle, using the degree scale (6).
4. Tighten the table lock knob (5).
5. Follow steps 3-7 under **BASIC SCROLL SAW OPERATION**.

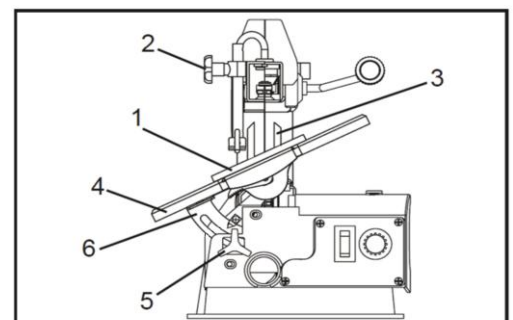


Fig. 12

**INTERIOR CUTTING (FIG. 13)**

1. Lay out the design on the workpiece (1). Drill a 1/8" (3 mm) hole (4) through the workpiece.

2. Remove the blade (3) by turning the quick tension release lever (2) counterclockwise.

Refer to **BLADE REMOVAL AND INSTALLATION**.

3. Place the workpiece on the work table (5) with the hole (4) over the access hole in the work table (5).

4. Install the blade (3) through the hole in the workpiece and push down the quick tension release lever (2).

5. Follow steps 3-8 under **BASIC SCROLL SAW OPERATION**.

6 Reinstall the blade in the scroll saw for further normal cutting.

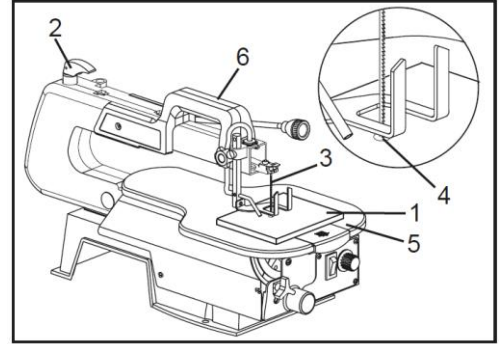


Fig. 13

**SAW TRANSPORTATION (FIG. 13)**

Transport the saw by the designated carrying handle (6) located on the upper arm of the body.

## MAINTENANCE

### GENERAL

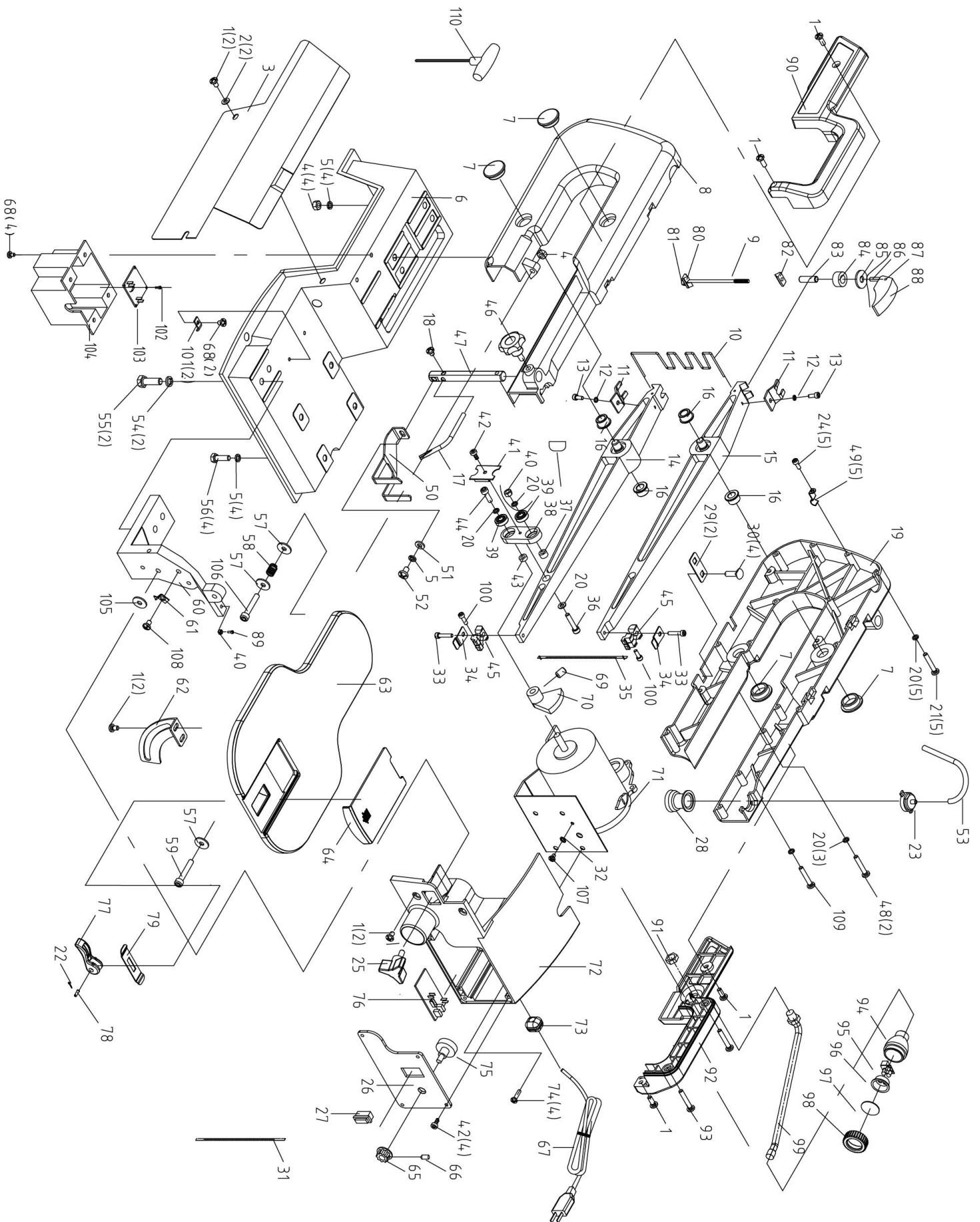
An occasional coat of paste wax on the work table will allow the wood being cut to glide smoothly across the work surface.

### MOTOR

1. If the power cord is worn, cut or damaged in any way, have it replaced immediately by authorized electrician.
2. Do not attempt to oil the motor bearings or service the motor internal parts.

PROBLEM	PROBABLE CAUSE	REMEDY SUGGESTED
Breaking blades	<ol style="list-style-type: none"> <li>1. Wrong tension.</li> <li>2. Over working blades.</li> <li>3. Wrong blade application.</li> <li>4. Twisting blade in wood.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust blade tension.</li> <li>2. Reduce feed rate</li> <li>3. Use narrow blades.</li> <li>4. Avoid side pressure on blade.</li> </ol>
Motor will not run	<ol style="list-style-type: none"> <li>1. Defective lead or plug.</li> <li>2. Defective motor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace defective parts.</li> <li>2. Consult Service Center.</li> </ol>
Excess vibration.	<ol style="list-style-type: none"> <li>1. Improper mounting of the saw.</li> <li>2. Unsuitable mounting surface.</li> <li>3. Loose table or table resting against motor.</li> <li>4. Loose motor mounting.</li> </ol>	<ol style="list-style-type: none"> <li>1. See "Mounting the Tool to a Bench".</li> <li>2. The heavier your workbench is the less vibration will occur. Use common sense in choosing a mounting surface.</li> <li>3. Tighten table lock handle.</li> <li>4. Tighten motor mounting screws.</li> </ol>
Blade run out ; blade not in line with arm motion	Blade holders not aligned.	Loosen cap screws holding blade holders to arms. Adjust position of blade holders. Retighten holders.

## EXPLODED VIEW





**PARTS LIST**

**WARNING!** When servicing, use only original equipment replacement parts. The use of any other parts may create a safety hazard or cause damage to the tool. Any attempt to repair or replace electrical parts on this saw may create a safety hazard unless repairs are performed by a qualified technician. For more information, call the Toll-free Helpline, at 1-866-349-8665.

Key#	Part #	Part Name	Qty
1	1345-000-001	Philips Screw	6
2	1345-000-002	Flat Washer	6
3	1345-000-003	Side Cover	1
4	1345-000-004	Hex Nut,type I	5
5	1345-000-005	Standard Spring Washer	9
6	1345-000-006	Base	1
7	1345-000-007	Oil cap	4
8	1345-000-008	Left Housing set	1
9	1345-000-009	Tension Bolt	1
10	1345-000-010	Extension Spring	1
11	1345-000-011	Pressure Plate	2
12	1345-000-012	Standard Spring Washer	3
13	1345-000-013	Philips Screw	2
14	1345-000-014	Lower Arm	1
15	1345-000-015	Upper Arm	1
16	1345-000-016	Arm Bearing	4
17	1345-000-017	Blast Pipe	1
18	1345-000-018	Philips Screw	1
19	1345-000-019	Right Housing set	1
20	1345-000-020	Standard Spring Washer	11
21	1345-000-021	Philips Screw	5
22	1345-000-022	Pin	1
23	1345-000-023	Bellows Cap	1
24	1345-000-024	Philips screw	5
25	1345-000-025	Work Table Lock Knob	1
26	1345-000-026	Switch Box Cover	1
27	1345-000-027	Switch	1
28	1345-000-028	Bellows	1
29	1345-000-029	Fixing Plate	2
30	1345-000-030	Dome Screw	4

Key#	Part #	Part Name	Qty
31	1345-000-031	Blade	1
32	1345-000-032	Star Washer	1
33	1345-000-033	Hex Socket Screw	1
34	1345-000-034	Adaptor Fixing Plate	2
35	1345-000-035	Blade	1
36	1345-000-036	Hex Socket Screw	1
37	1345-000-037	Big Cushion	1
38	1345-000-038	Eccentricity Connector Assembly	1
39	1345-000-039	Ball Bearing	2
40	1345-000-040	Hex Nut,type I	2
41	1345-000-041	Connector Pressure Plate	1
42	1345-000-042	Philips Screw	5
43	1345-000-043	Small Cushion	1
44	1345-000-044	Hex Socket Screw	1
45	1345-000-045	Blade Adaptor	2
46	1345-000-046	Pressure Pole Knob	1
47	1345-000-047	Pressure Pole	1
48	1345-000-048	Philips Screw	2
49	1345-000-049	Wire Clip	4
50	1345-000-050	Drop Foot	1
51	1345-000-051	Flat washer	1
52	1345-000-052	Philips Screw	1
53	1345-000-053	Soft Pipe	1
54	1345-000-054	Standard Spring Washer	2
55	1345-000-055	Hex Bolt	2
56	1345-000-056	Hex bolt	4
57	1345-000-057	Big flat washer	3
58	1345-000-058	Compress Spring	1
59	1345-000-059	Hex Socket Screw	1
60	1345-000-060	Work Table Stand	1
61	1345-000-061	Pointer	1
62	1345-000-062	Scale	1
63	1345-000-063	Work Table	1

Key#	Part #	Part Name	Qty
64	1345-000-064	Auxiliary Work Table	1
65	1345-000-065	Variable Speed Knob	1
66	1345-000-066	Hex Socket Screw	1
67	1345-000-067	Power Cord	1
68	1345-000-068	Hex Socket Screw	6
69	1345-000-069	Hex Socket Screw	1
70	1345-000-070	Eccentricity wheel	1
71	1345-000-071	DC Motor	1
72	1345-000-072	Switch Box	1
73	1345-000-073	Wire Clip	1
74	1345-000-074	Philips Screw M4x10	4
75	1345-000-075	Variable Speed Switch	1
76	1345-000-076	Circuit Board	1
77	1345-000-077	Eccentricity Knob	1
78	1345-000-078	Pin type B	1
79	1345-000-079	Spring Leaf	1
80	1345-000-080	Fixing Block	1
81	1345-000-081	Lock Nut M6	1
82	1345-000-082	Movable Block	1
83	1345-000-083	Spacer Pipe	1
84	1345-000-084	Bush	1
85	1345-000-085	Big flat washer	1
86	1345-000-086	Connector sleeve	1
87	1345-000-087	Spring Pin	1
88	1345-000-088	Tension Wrench	1
89	1345-000-089	Hex socket screw	1
90	1345-000-090	Handle (Left)	1
91	1345-000-091	Nut	2
92	1345-000-092	Handle (Right)	1
93	1345-000-093	Philips screw	2
94	1345-000-094	Lamp base	1
95	1345-000-095	LED bulb	1
96	1345-000-096	Lamp fixing base	1

Key#	Part #	Part Name	Qty
97	1345-000-097	Glass plate	1
98	1345-000-098	Lamp cover	1
99	1345-000-099	Lamp pipe	1
100	1345-000-100	Hex socket screw	2
101	1345-000-101	Wire clip	2
102	1345-000-102	Philips screw	2
103	1345-000-103	Led circuit board	1
104	1345-000-104	Transformer box	1
105	1345-000-105	Flat Washer	1
106	1345-000-106	Hex Socket Screw	1
107	1345-000-107	M4 Philips Screw	2
108	1345-000-108	M6 Philips Screw	1
109	1345-000-109	M5 Philips Screw	1
110	1345-000-110	Wrench	1

## ***WARRANTY***

### **16" VARIABLE SPEED SCROLL SAW**

If this Radley tool fails due to a defect in material or workmanship within three years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. Two years for battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts, and light bulbs.

This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Radley product is used for commercial or rental purposes, this warranty does not apply.

# 16" VARIABLE SPEED SCROLL SAW



3 Year Limited Warranty on tool

**Radley®**

**RADLEY TOOLS**  
ST. JACOBS, ONTARIO N0B 2N0  
© 2022 Home Hardware Stores Limited  
**1-866-349-8665**  
Customer Service/Tech Support

**1345-000**

Made in China

**3 Year  
warranty**

This Radley® product carries a three (3) year LIMITED warranty against defects in workmanship and materials. See Owner's Manual for full details.



**READ ALL INSTRUCTIONS BEFORE FIRST USE.  
KEEP THIS MANUAL FOR FUTURE REFERENCE.  
KEEP AWAY FROM CHILDREN.**



**WEAR CSA APPROVED  
EYE PROTECTION**



**WEAR EAR  
PROTECTION**



**WEAR FACE  
PROTECTION**