Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference. 24a

CENTRAL® MACHINERY

16" VARIABLE SPEED SCROLL SAW



71113

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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SAFETY

SETUP

OPERATION

MAINTENANCE

CENTRAL® MACHINERY

WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

General Tool Safety Warnings

⚠ WARNING

Read all safety warnings and instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. 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.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

Table A: RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)				
NAMEPLATE AMPERES (at full load)	**EXTENSION CORD LENGTH**			
	25′	**50′**	**100′**	**150′**
0 – 6	18	16	16	14
6.1 – 10	18	16	14	12
10.1 – 12	16	16	14	12
12.1 – 16	14	12	**Do not use.**	

9. 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. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
11. ALWAYS USE 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.
12. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
13. DON'T OVERREACH. Keep proper footing and balance at all times.
14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
15. DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and the like.
16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.
17. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
18. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
20. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

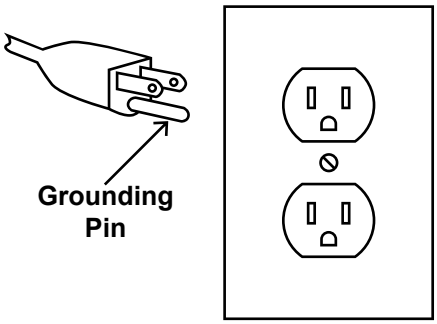
Grounding Instructions

⚠WARNING

TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION READ AND FOLLOW THESE INSTRUCTIONS:

110-120 VAC Grounded Tools: Tools with Three Prong Plugs

1. 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.
2. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a 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.
4. 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.
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.



125 VAC 3-Prong Plug and Outlet (for up to 125 VAC and up to 15 A)

7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 VAC 3-Prong Plug and Outlet**. The tool has a grounding plug that looks like the plug illustrated above in **125 VAC 3-Prong Plug and Outlet**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. Do not use an adapter to connect this tool to a different outlet.

Scroll Saw Safety Warnings

For Your Own Safety Read Instruction Manual Before Operating Scroll Saw

1. Wear eye protection.
2. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED. Moving guards must move freely and close instantly.**
3. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
4. When servicing use only identical replacement parts.
5. Remove the Safety Key after each use. Store the Safety Key separate from the tool and out of children's reach.
6. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.
7. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
8. Industrial applications must follow OSHA guidelines.
9. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

10. Avoid unintentional starting.
    Prepare to begin work before turning on the tool.

11. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.

12. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.

2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.

3. Use tools with the lowest vibration when there is a choice between different processes.

4. Include vibration-free periods each day of work.

5. Grip workpiece as lightly as possible (while still keeping safe control of it). Let the tool do the work.

6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

SAVE THESE INSTRUCTIONS.

Specifications

Electrical Rating	120VAC / 60Hz / 1.2A
Table Tilt	0 to 45 degrees (left)
Cutting Thickness	2″
Blade Type	5" L Pin End blade; Can use plain end blade with provided adapters. 15 TPI blade mounted on machine.
Throat Depth	16″
Blade Stroke	9/16″
Cutting Speed	550 to 1650 SPM; Variable
Base Mounting Holes	4 - 5/16 inch diameter holes
Accessories	2 Hex Keys 1 Pinless Blade 2 Pinned Blade 2 Adapters

Setup - Before Use:

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off, remove the Safety Key, and unplug the tool from its electrical outlet before performing any procedure in this section.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Assembly/Mounting

1. Pick a solid, wood workbench to mount the Scroll Saw. The workbench must be stable, and able to support the weight of the Saw and the material being cut.
2. Find the three 5/16 inch mounting holes in the Base (95) and mark through the holes for drilling with a 3/8 inch drill bit. Remove Scroll Saw and drill holes.
3. Replace Scroll Saw over holes and mount with the following hardware (not included): three sets of 1/4″ bolts, washers, lock washers, and nuts.
4. Check that all Scroll Saw screws and nuts are tight before using the machine.

Check and Align Bevel Scale Indicator

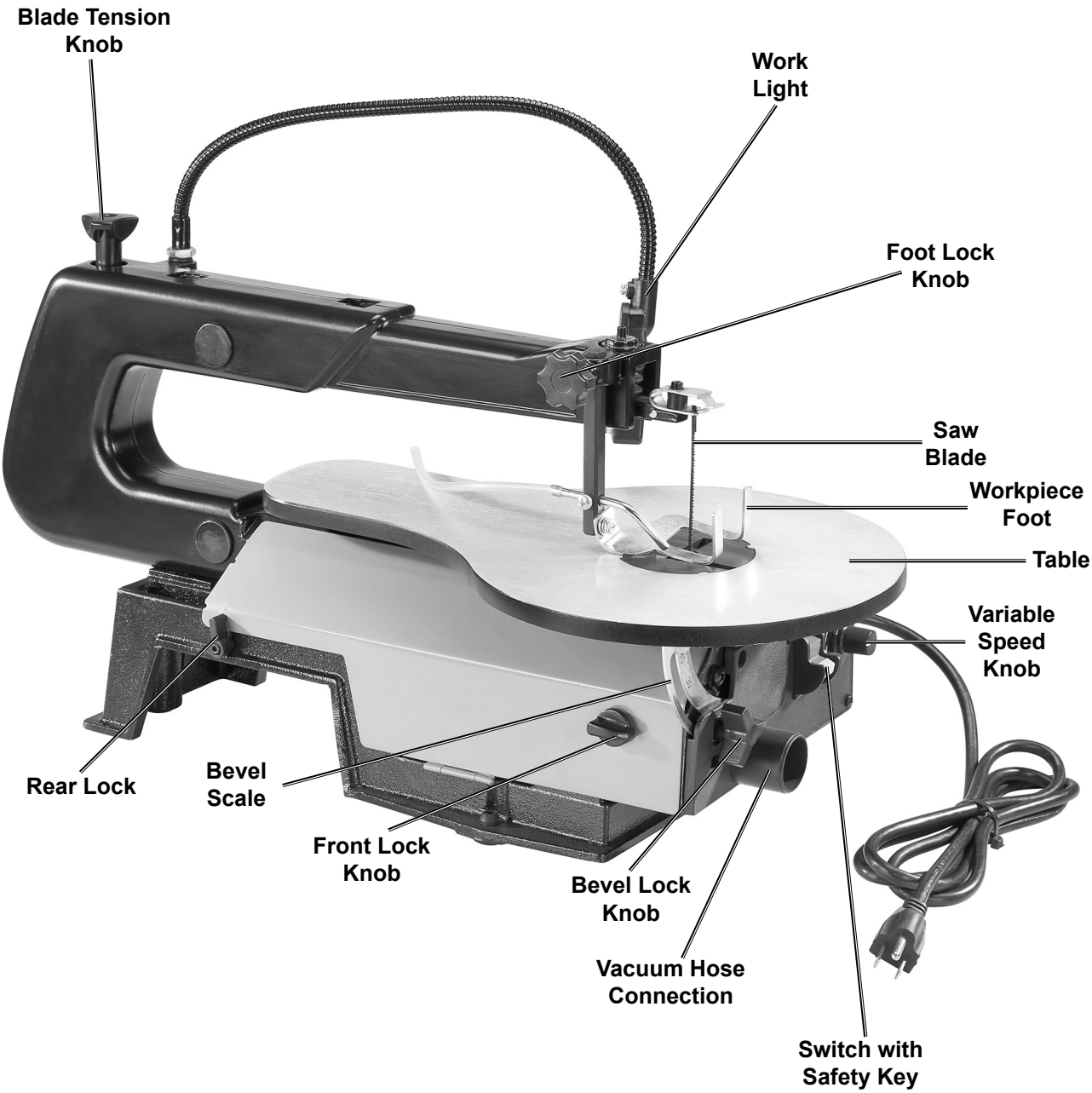
1. Loosen Bevel Lock Knob (22) and move the Saw Table until it is approximately perpendicular (right angle) to the Saw Blade.
2. Use a small combination square to set the Table at 90 degrees to the Blade.

Note: The Stop Bolt beneath the Table should be set to contact the Table at exactly 90 degrees.

3. Tighten the Table Lock Knob.
4. Loosen Screw (21) holding the Bevel Scale Indicator (26) and adjust Indicator to point to “0” degrees. Retighten Screw.

Note: The Bevel Scale Indicator is only a guide and should not be relied upon for precision settings. Make practice cuts in scrap wood to determine if the angle settings are correct.

Functions


Blade Tension Knob
Work Light
Foot Lock Knob
Saw Blade
Workpiece Foot
Table
Variable Speed Knob
Rear Lock
Bevel Scale
Front Lock Knob
Bevel Lock Knob
Vacuum Hose Connection
Switch with Safety Key

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off, remove the Safety Key, and unplug the tool from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY:
DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED.
Moving guards must move freely and close instantly.

Table Angle Adjustment

The Saw Table can be adjusted between 0 and 45 degrees as follows:

1. Loosen the Bevel Lock Knob (22) and move the table until the desired angle is reached as indicated on the Bevel Scale (30).
2. Tighten the Bevel Lock Knob.

Workpiece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the Power Cord along a safe route to reach the work area without creating a tripping hazard or exposing the Cord to possible damage. The Power Cord must reach the work area with enough extra length to allow free movement while working.
3. There must not be objects, such as utility lines, nearby that will present a hazard while working.

Turning On and Adjusting Speed

The Switch (82) needs to have the Safety Key inserted before the Switch can be used. This feature prevents unauthorized use of the Scroll Saw.

1. Insert Safety Key into Switch.
2. To turn Saw On, push Switch upward.
3. To turn Saw Off, push Switch downward.
4. Turn the Variable Speed Knob (32) clockwise to increase the strokes per minute.

⚠WARNING! TO PREVENT SERIOUS INJURY: Keep hands and fingers away from the moving Saw Blade.

5. To prevent accidents, turn off the tool, remove the Safety Key, and unplug the tool from its electrical outlet after use.
   Clean, then store the tool indoors out of children's reach. Store the Safety Key separately also out of children's reach.

Straight, Cross, Bevel Cuts, and Ripping

1. Using a pencil, mark the cut-line on the workpiece.
2. Slide the workpiece underneath the Workpiece Foot (15). If necessary, adjust the Workpiece Foot by loosening the Foot Lock Knob (12) and sliding the Workpiece Foot up or down until it lightly rests on the workpiece. Tighten the Workpiece Foot Lock Knob. Do not allow the workpiece to contact the blade yet.
3. Turn the Switch On. The Saw Blade starts moving.
4. Using both hands, carefully guide the workpiece into the Blade. Press down on the workpiece and slowly guide it through the Saw Blade. Do not force the material through the Blade or the Blade could break.

Inside Cuts

1. Using a pencil, mark the cut-line on the workpiece.
2. Drill a 1/4 inch hole in the workpiece.
3. Follow the procedure for removing the Saw Blade as described in *Removing and Installing Blades* on page 11.
4. Place the workpiece on the Saw Table so that the hole is centered over the Blade access hole.
5. Insert the Blade through the hole in the workpiece and the Saw Table.
6. Reinstall the Blade and set the proper tension as described in *Removing and Installing Blades* on page 11. Make sure Blade teeth are facing forward and down.
7. While holding the workpiece with one hand, turn the Switch On.
8. Hold the workpiece with both hands while guiding and pressing down on the workpiece until the cut is complete.
9. Turn the Switch Off.
10. Follow the procedure for removing the Saw Blade as described in *Removing and Installing Blades* on page 11.
11. With the Blade removed, the workpiece can be removed from the Saw Table.
12. Reinstall the Blade and set the proper tension as described in *Removing and Installing Blades* on page 11.

Curved Cuts

1. Mark the entire cutting line with a pencil. If a template is available, use it as a marking guide.
2. Slide the workpiece underneath the Workpiece Foot without touching the Saw Blade.
3. Turn the Switch On.
4. Using both hands, carefully guide the workpiece into the Saw Blade. Press down on the workpiece and slowly guide it through the Blade. Do not force the material through the Blade. When cutting curves, be careful not to twist the Blade out of line.
5. If the curve cut is forced off the cut-line, back the material off the Saw Blade and start a new, straight cut through a scrap section of the material. Begin the curved cut again from an appropriate angle point.
6. Turn the Switch Off and remove the Safety Key when finished cutting.

Jamming of Saw Blade and Workpiece

1. If the Saw Blade jams in the workpiece, immediately turn the Switch Off, remove the Safety Key, and unplug the Power Cord from its electrical outlet.
2. Wait until the Saw Blade has come to a complete stop, then remove the Saw Blade as described in *Removing and Installing Blades* on page 11. The workpiece will come with it.
3. Place a flat bladed screwdriver in the cut and force it open. Remove the Saw Blade.
4. Reinstall the Saw Blade on the machine and set the proper tension as described in *Removing and Installing Blades* on page 11.

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off, remove the Safety Key, and unplug the tool from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning and Maintenance

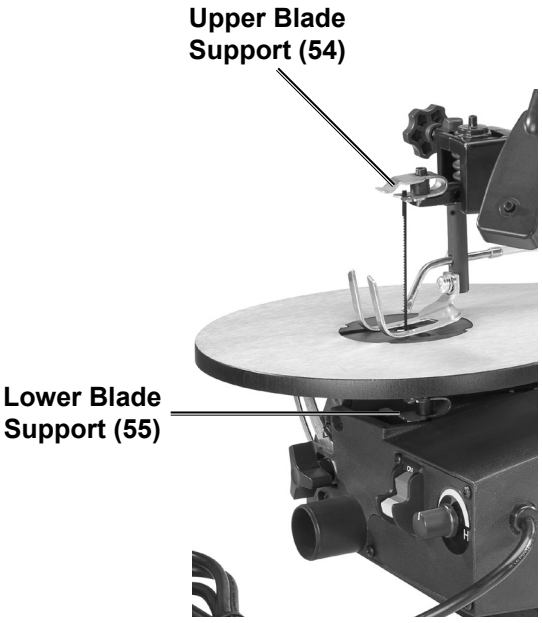
1. **BEFORE EACH USE,** inspect the general condition of the tool. Check for:
   - loose hardware
   - misalignment or binding of moving parts
   - cracked or broken parts
   - damaged electrical wiring
   - any other condition that may affect its safe operation.
2. **AFTER USE,** wipe external surfaces of the tool with clean cloth.
3. Periodically recheck all nuts, bolts, and screws for tightness.
4. Applying a light coat of paste wax on the Saw Table allows the material being cut to glide smoothly across the Saw Table surface. Buff the wax off with a clean cloth after application.
5. Clean the Scroll Saw by using compressed air to blow off dirt and dust.
6. Store in a clean and dry location.
7. Over time, if the performance of the Scroll Saw diminishes, or it stops working completely, it may be necessary to replace the Carbon Brushes in the Motor by removing the Carbon Brush Holder and inspecting the Carbon Brushes. This procedure should be completed by a qualified technician. If the Carbon Brushes are not worn down, try cleaning the Carbon Brush tips with an ink eraser.

⚠WARNING! TO PREVENT SERIOUS INJURY: If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

Removing and Installing Blades

Note: Replacement blades sold separately.

1. Loosen the Blade Tension Knob (97) by turning counterclockwise about two full turns. Refer to *Functions* on page 7.
2. Unlock Front Locking Knob (92) and Rear Lock (84) to open Side Panel.
3. Remove Saw Blade:
   a. For Pinned Blade, Push down slightly on the Upper Blade Support (54) and remove Saw Blade by pulling forward. Then pull upward to remove Saw Blade from Lower Blade Holder (55).
   b. For Pinless Blade, loosen set screws in Upper and Lower Blade Adapters (73), then remove Saw Blade. See *Mounting Plain Ended (Pinless) Blades* on page 12.



Note: The Saw Blade must be installed so that its teeth are facing forward (front cutting), or to the side (side cutting), and always pointing down.

4. Install new five inch Saw Blade:
   a. For Pinned Blade, hook Blade pins in the recess of Lower Blade Support (55). Insert Blade pins into recess of Upper Blade Support (54) by pushing down on the Blade Support.
   b. For Pinless Blade, loosen set screws in Upper and Lower Blade Adapters (73). Insert Saw Blade and secure in place by tightening Set Screws.
5. Close Side Panel and lock Front Locking Knob and Rear Lock.
6. Tighten the Blade Tension Knob by turning clockwise about two full turns.

Note: The Blade is at the proper tension when the slack is just barely removed. Over or under tensioning of the blade causes premature breakage during operation.

The Scroll Saw can use a variety of blade widths and thicknesses. Blades must be five inches long. Blades should have the cross pin for mounting. If pinless, blades should be used with the adapters.

These are used for cutting various types of materials as listed below:

Teeth / Inch	Width	Thickness	Material Cut
10	0.11"	0.02"	Medium turns on 1/4 to 1-3/4" wood, soft metals, wallboard, hardboard.
15	0.11"	0.02"	Medium turns on 1/4 to 1-3/4″ soft metals, wallboard, hardboard. Cuts wood from 1/8 to 1-1/2″ thick.
18	0.095"	0.01"	Extra thin cuts on soft woods and other materials up to 1/4".

Mounting Plain Ended (Pinless) Blades

Included as an accessory are two Plain End Blade Adapters. When installed, they enable the mounting of plain end saw blades. To install blades of this type:

1. Using a Hex Key, loosen both set screws on each of the Plain End Blade Adapters.
2. Slide the gap between the two set screws over each end of the blade.
3. Evenly tighten all set screws. Pull on the Adapters slightly to make sure they are secure.
4. Remove the old Blade. Pull the Saw Table Insert (31) out and rotate it 90° to the position shown in Figure A.

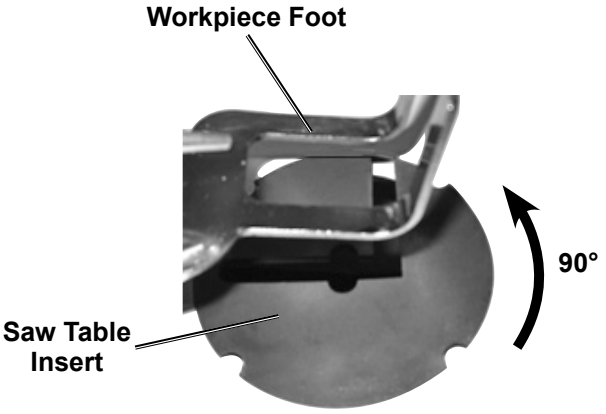


Figure A

5. Loosen the Blade Tension Knob (97) by turning counterclockwise about two full turns.
6. Place the Blade Adapter's bar under the end of the Lower Blade Support (55). Make sure that the blade's teeth point in the right direction.
7. Push down slightly on the Upper Rocker Arm, and place the other Blade Adapter's bar over the end of the Upper Blade Support (54).
8. Tighten the Blade Tension Knob by turning clockwise about two full turns.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Blades breaking	1. Wrong blade tension. 2. Over-working blade. 3. Wrong blade application. 4. Blade twisting in wood.	1. Adjust blade tension. 2. Reduce feed cut rate. 3. Use narrow blades for cutting thin wood, wide blades for cutting thicker wood. 4. Avoid side pressure on blade.
Motor does not run	1. No power at outlet. 2. Defective power cord or plug. 3. Defective motor.	1. Check power source. 2. Repair or replace defective parts. 3. Have motor repaired or replaced by a qualified service technician.
Excessive Vibration	1. Improper base mounting. 2. Unsuitable mounting surface. 3. Loose motor mounting.	1. Make sure mounting hardware is secure. 2. The heavier the work bench, the less vibration will occur. 3. Check that motor mounting hardware is secure.
Blade not in line with arm motion	Blade holders not aligned.	Loosen hex bolts and re-align upper and lower blade holders. Tighten hex bolts.
Tool will not start	1. Power cord not connected. 2. No power at outlet. 3. Tool's thermal reset breaker tripped (if equipped). 4. Internal damage or wear. (Carbon brushes or switch, for example.)	1. Check that cord is plugged in. 2. Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads. 3. Turn off tool and allow to cool. Press reset button on tool. 4. Have technician service tool.
Tool operates slowly	Extension cord too long or wire size too small.	Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See **Table A** on page 3.
Performance decreases over time	1. Saw blade dull or damaged. 2. Carbon brushes worn or damaged.	1. Replace saw blade. 2. Have qualified technician replace brushes.
Excessive noise or rattling	Internal damage or wear. (Carbon brushes or bearings, for example.)	Have technician service tool.
Overheating	1. Forcing machine to work too fast. 2. Saw blade dull or damaged. 3. Motor being strained by long or small diameter extension cord.	1. Allow machine to work at its own rate. 2. Replace saw blade. 3. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See **Table A** on page 3.

Follow all safety precautions whenever diagnosing or servicing the tool.
Disconnect power supply and remove the Safety Key before service.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

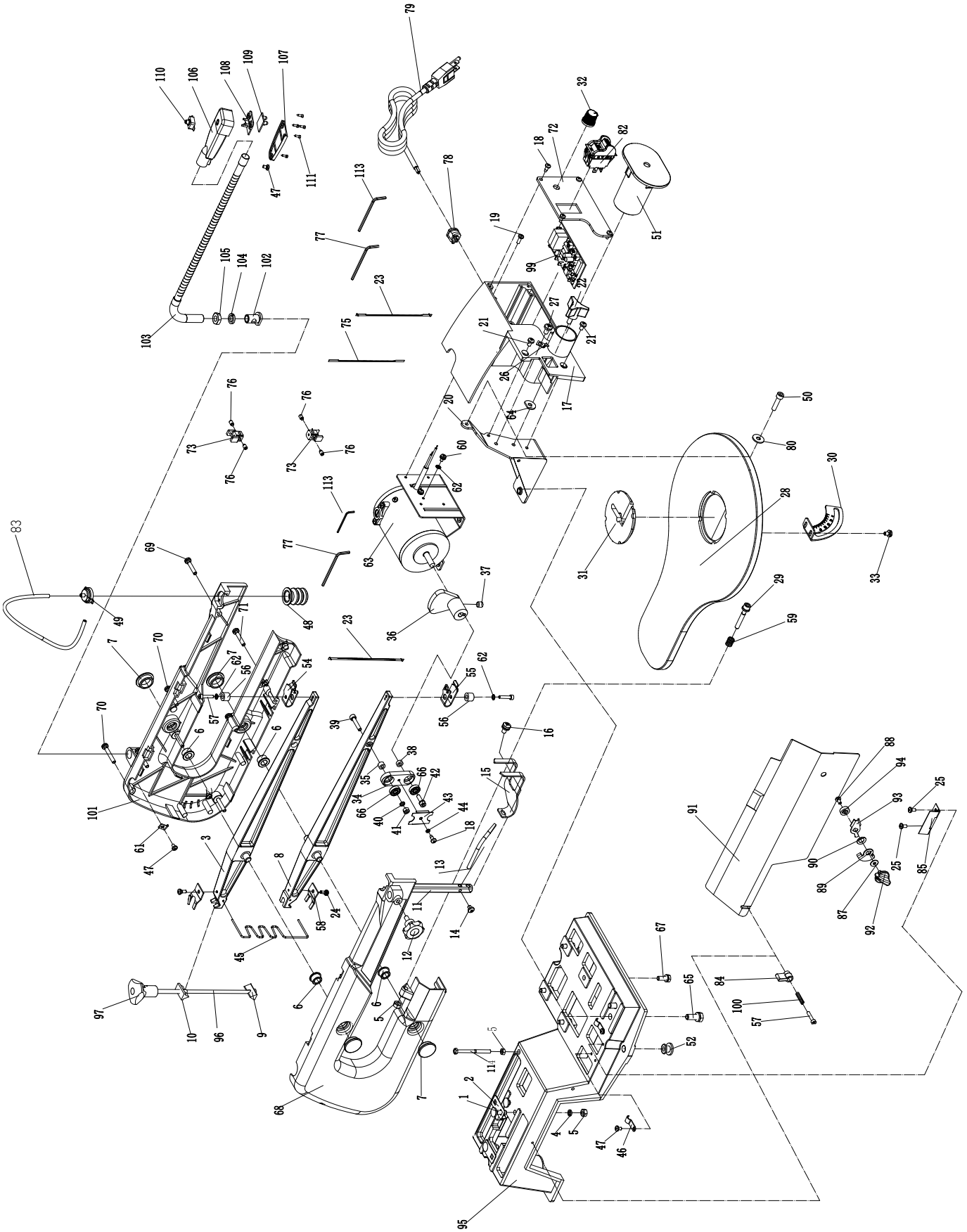
PARTS LIST

Part	Desc	Qty
1	Dome Screw M6×20	4
2	Fixed Plate	2
3	Upper Rocker Arm	1
4	Spring Washer 6	4
5	Nut Type I M6	5
6	Oil Bushing	4
7	Oil Cap	4
8	Lower Rocker Arm	1
9	Fixed Block	1
10	Moveable Block	1
11	Drop Foot Pole	1
12	Foot Lock Knob	1
13	Blast Pipe	1
14	Phillips Screw M5×6	1
15	Workpiece Foot	1
16	Phillips Screw M6×12	1
17	Switch Box	1
18	Phillips Screw-ST4.2 X 10-F Type	5
19	Phillips Screw M4X12	4
20	Table Bracket	1
21	Phillips Screw M5X8	2
22	Bevel Lock Knob	1
23	Pin Blade 15 TPI	1
24	Phillips Screw M4×10	2
25	Phillips Screw M4×8	2
26	Bevel Scale Pointer	1
27	Phillips Screw M6×10	1
28	Work Table	1
29	Phillips Screw M6×40	1
30	Bevel Scale	1
31	Table Insert	1
32	Variable Knob	1
33	Phillips Screw M5×8 S3 N	2
34	Eccentric Connection Bracket	1
35	Big Cushion Pad	1
36	Eccentric Wheel	1
37	Hex Socket Screw M8X8	1
38	Small Cushion Pad	1

Part	Desc	Qty
39	Hex Socket Screw M5X25	1
40	Spring Washer Ø5	1
41	Nut Type I M5	1
42	Hex Socket Screw M5X16	1
43	Connection Bracket Pressure Plate	1
44	Spring Washer Ø4	1
45	Extension Spring	1
46	Wire Clip	2
47	Phillips Screw M4X6	8
48	Bellows	1
49	Bellows Cap	1
50	Hex Socket Screw M6X25	1
51	Packaging Support	1
52	Rubber Foot	3
54	Upper Blade Support	1
55	Lower Blade Support	1
56	Stand Cushion (Nylon)	2
57	Hex Socket Screw M4X20	3
58	Pressure Plate	2
59	Pressure Spring	1
60	Phillips Screw M4×8	2
61	Wire Plate	5
62	Star Washer Ø4	4
63	DC Motor	1
64	PVC Washer	1
65	Hex Bolt M8X20	2
66	Ball Bearing 625-2z	2
67	Hex Bolt M6X16	4
68	Left Housing Set	1
69	Phillips Screw M5X28-8.8	1
70	Phillips Screw M5X35-8.8	5
71	Phillips Screw M5X30-8.8	2
72	Switch Box Cover	1
73	Blade Adapter	2
75	Pinless Blade 18 TPI	1

Part	Desc	Qty
76	Hex Socket Screw M5X8-12.9	4
77	Hex Wrench	1
78	Cord Clip	1
79	Power Cord	1
80	Big Flat Washer Ø6	1
81	Cord Bush	1
82	Switch	1
83	PVC Pipe	1
84	Rear Lock	1
85	Upper Hinge	1
86	Lower Hinge	1
87	Big Flat Washer	1
88	Phillips Screw	1
89	Stop Plate	1
90	Curved Spring Washer	1
91	Side Panel	1
92	Front Lock Knob	1
93	Lock Plate	1
94	Guide Sleeve	1
95	Base	1
96	Tension Lever	1
97	Blade Tension Knob	1
98	Spring Pin 2.5X14	1
99	PCB	1
100	Back Lock Spring	1
101	Right Housing Set	1
102	Fixing Nut	1
103	Lamp Pole	1
104	Spring Washer Ø10	1
105	Thin Nut M10	1
106	LED Box	1
107	Battery Box Cover	1
108	LED Cover	1
109	LED PCB	1
110	Lamp Switch	1
111	Phillips Screw-ST2.9×8	5
112	Pin Blade 18 TPI	1
113	Hex Wrench	1
114	Hex Head Bolt M6 x 80	1

Assembly Diagram



Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175528278 when ordering parts.

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

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

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