

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A. Part No. SP5837

Printed in U.S.A.

FULL ONE YEAR WARRANTY ON CRAFTSMAN BENCHTOP TOOLS

If this Scroll Saw fails due to a defect in material or workmanship, within one year from the date of purchase, RETURN IT TO THE NEAR-EST SEARS SERVICE CENTER IN THE UNITED STATES, and Sears will repair it, free of charge.

If this Scroll Saw is used for commercial or rental purposes, warranty will apply for ninety days from the date of purchase.

This warranty applies only while this product is in the United States. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., D817 WA Hoffman Estates, IL. 60179

# Safety Instructions for Scroll Saw

Safety is a combination of common sense, staying alert and knowing how

Safety Signal Words

DANGER: means if the safety information is not followed someone will be seriously injured or killed.

WARNING: means if the safety information is not followed someone could be

## **Before Using The Saw**

WARNING: To avoid mistakes that could cause serious permanent injury, do not plug the saw in until the following steps are completed.

 Completely assemble and align saw (see "Assembly and Alignment" sections within).

 Learn the use and function of the speed control ON-OFF knob, bevel lock knob, blade holders, blade support, to understand this saw.

vour scroll saw works. Read this manual

seriously injured or killed.

**CAUTION:** means if the safety information is not followed someone **might** be injured.

hold down, tension knob, and blade guard. (See "Getting to Know Your Scroll Saw" section.)

- Review and understand all safety instructions and operating procedures in this manual.
- Review the maintenance methods for this saw. (See "Maintenance" section.)
- Read the warning label below, found on the base of the saw.

	1. Read manual before using saw.	
	<ol><li>Wear safety goggles that meet ANSI 287.1 Standards.</li></ol>	
÷.	3. Be sure blade is installed with teeth pointing down.	
	4. Property adjust holddown.	
	5. Keep fingers away from the moving blade.	
- 14	6. Do not remove jammed cutoff pieces until blade has stopped.	
· ·	7. Maintain proper adjustment of blade tension.	
	8. Hold workpiece firmly against lbs table.	1
	9. Turn power off and wait for blade to stop before adjusting or servicing.	1

# When Installing or Moving The Saw

Avoid Dangerous Environment. Use the saw in a dry indoor place, protected from rain. Keep work area well lighted.

# To avoid injury from unexpected saw movement:

- Turn saw off and unplug cord before moving the saw.
- Place the saw on a firm level surface where there is plenty of room for handling and properly supporting the workplece.
- Support the saw so the table is level and the saw does not rock.
- Bolt the saw to the work surface if it tends to slip, walk, or slide during operations like cutting long heavy boards, or when using an auxiliary table.

• Never Stand On Tool. Serious injury

# **Before Each Use**

#### Inspect your saw.

**Disconnect The Saw**. To avoid injury from accidental starting, unplug the saw, turn the switch off and lock out the switch before changing the setup, removing covers, guards or blade.

#### Check For Damaged Parts. Check for:

- · Alignment of moving parts.
- Binding of moving parts.
- · Broken parts.

Sector Contractions

- Stable mounting.
- Any other conditions that may affect the way the saw works.

If any part is missing, bent or broken in any way, or any electrical parts don't work properly, turn the saw off and unplug the saw. **Replace** damaged, missing or failed parts before using the saw again. **Keep Guard in Place** and in working order.

Maintain Tools with Care. Keep the saw clean for best and safest performance. Follow instructions for lubricating.

Remove adjusting keys and wrenches from tool before turning it on.

To avoid injury from jams, slips or thrown pieces

• Use Only Recommended Accessories. (See "Recommended Accessories" section). Consult this owners manual for recommended accessories. could occur if the tool tips or you accidentally hit the cutting tool. Do not store any item above or near the tool where anyone might stand on the scroll saw to reach that item.

#### To avoid injury or death from electrical shock:

- Ground the saw. This saw has an approved 3 conductor cord and a 3prong grounding type plug. Use only 3wire, grounded outlets rated 120 volts, 15 amperes (amps). The green conductor in the cord is the grounding wire. To avoid electrocution, NEVER connect the green wire to a live terminal.
- Make sure your fingers do not touch the plug's metal prongs when plugging or unplugging the saw.

Follow the instructions that come with the accessories. The use of improper accessories may cause risk of injury to person.

- Choose the right size and style blade for the material and the type of cutting you plan to do.
- Make sure the blade teeth point downward, toward the table.
- Make sure the blade tension is properly adjusted.
- Keep Work Area Clean. Cluttered areas and benches invite accidents. Floor must not be slippery.

To avoid burns or other fire damage, never use the saw near flammable liquids, vapors or gases.

- Know Your Saw. Read and understand the owners manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.
- To avoid injury from accidental contact with moving parts, don't do layout, assembly, or setup work on the saw while any parts are moving.
- Avoid Accidental Starting. Make sure switch is "OFF" before plugging saw into a power outlet.

# Safety Instructions for Scroll Saw (continued)

#### Plan Your Work.

- Use The Right Tool. Don't force tool or attachment to do a job it was not designed to do.
- Use this scroll saw to cut only wood, woodlike products, plastics and nonferrous metals.

CAUTION: This saw is NOT designed for cutting ferrous metals like iron or steel. When cutting nonferrous metals (brass, copper and aluminum, etc.), metal shavings can react with wood dust and start a fire. To avoid this:

- Remove all traces of wood dust from on and around the saw.
- Remove all metal shavings from on or around the saw before sawing wood again.

## Plan Ahead To Protect Your Eyes, Hands, Face and Ears

Any power saw can throw foreign objects into the eyes. This can cause permanent eye damage. Wear safety goggles (not glasses) that comply with ANSI Z87.1 (shown on package). Everyday eyeglasses have only impact resistant lenses. They are not safety glasses. Safety goggles are available at Sears Retail Stores. Glasses or goggles not in compliance with ANSI Z87.1 could seriously hurt you when they break.



#### Dress for safety

- Do not wear loose clothing, gloves, neckties or jewelry (rings, wristwatches). They can get caught and draw you into moving parts.
- Wear nonslip footwear.
- Tie back long hair.
- Roll long sleeves above the elbow.
- Noise levels vary widely. To avoid possible hearing damage, wear ear plugs or muffs when using saw for hours at a time.
- For dusty operations, wear a dust mask along with the safety goggles.

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#### Inspect Your Workpiece.

Make sure there are no nails or foreign objects in the part of the workpiece to be cut.

# Use extra caution with large, very small or awkward workpieces

- Never use this tool to finish pieces too small to hold by hand.
- Use extra supports (tables, saw horses, blocks, etc.) for any workpieces large enough to tip when not held down to the table top.
- Never use another person as a substitute for a table extension, or as additional support for a workpiece or to help feed, support or pull the workpiece.
- When cutting irregularly shaped workpieces, plan your work so it will not pinch the blade. A piece of molding, for example, must lay flat or be held by a fixture or jig that will not let it twist, rock or slip while being cut.
- Properly support round material such as dowel rods or tubing. They have a tendency to roll during a cut, causing the blade to "bite". To avoid this, always use "V" blocks.
- Cut only one workpiece at a time.
- Clear everything except the workpiece and related support devices off the table before turning the saw on.

#### Plan the way you will hold the workpiece from start to finish.

- Do not hand hold pieces so small that your fingers will go under the blade guard. Use jigs or fixtures to hold the work and keep your hands away from the blade.
- Avoid awkward operations and hand

## Whenever Saw Is Running

WARNING: Don't let familiarity (gained from frequent use of your scroll saw) cause a careless mistake. A careless fraction of a second is enough to cause a severe injury.

- Before starting your cut, watch the saw while it runs. If it makes an unfamiliar noise or vibrates excessively, stop immediately. Turn the saw off. Unplug the saw. Do not restart until finding and correcting the problem.
- Keep Children Away. Keep all visitors a safe distance from the saw. Make sure bystanders are clear of the saw and workpiece.
- Don't Force Tool. It will do the job better and safer at its designed rate. Feed the workpiece into the saw blade only fast enough to let it cut without bogging down or binding.

positions where a sudden slip could cause fingers or hand to move into the blade.

- Don't Overreach. Keep good footing and balance.
- Keep your face and body to one side of the blade, out of line with a possible thrown piece if the blade should break.

## Before Freeing Any Jammed Material.

- Turn switch "OFF"
- · Wait for all moving parts to stop.
- Unplug the saw.

When backing up the workpiece, the blade may bind in the kerf (cut). This is usually caused by sawdust clogging up the kerf. If this happens:

- Turn switch "OFF".
- Wait for all moving parts to stop.
- Unplug the saw.
- With a flat blade screwdriver, turn motor shaft by hand. Insert the screwdriver into the slotted end of motor shaft located at the center of the motor housing. Do this while backing up the workpiece.

Before removing loose pieces from the table, turn saw off and wait for all moving parts to stop.

## **Before Leaving the Saw**

- Wait for all moving parts to stop.
- Make Workshop Child-proof. Unplug the saw. Lock the workshop and ON/

# Glossary of Terms for Woodworking -

Kerf - the slot cut by the blade.

Leading Edge - the edge of the workpiece which is pushed into the blade first.

Sawblade Path - the area of the workpiece directly in line with and moving toward the sawblade edge.

**Bevel** - the ability to slant the table to make angle cuts. An angle cutting operation through the face of the board. OFF knob on the saw. Store the key away from children and others not qualified to use the tool.

Blade Tooth Set - the distance that the edge of the sawblade tooth is bent (or set) outward from the side of the blade.

**Trailing Edge -** the workpiece edge last cut by the sawblade.

Workpiece - the item on which the cutting operation is being performed.

# Motor Specifications and Electrical Requirements -

# **Power Supply and Motor Specifications**

WARNING: To avoid electrical hazards, fire hazards or damage to the tool, use proper circuit protection. Your tool is wired at the factory for operation using the voltage shown. Connect tool to a power line with the appropriate voltage and a 15amp branch circuit. Use a 15-amp time delay type fuse or circuit breaker. To avoid shock or fire, if power cord is worn or cut, or damaged in any way, have it replaced immediately.

For replacement motor and control board, refer to parts list in this manual.

CAUTION: A direct current motor is used in this saw. Changes to the internal wiring will create a fire hazard and may also create a shock hazard.

This machine is equipped with a variable speed motor having the following specifications:

Voltage	110-120
Amperes	1.2
Hertz (Cycles)	60
Phase	Single
RPM	500-1700
Rotation of Shaft	Clockwise

### **General Electrical Connections**

DANGER: To avoid electrocution:

- Use only identical replacement parts when servicing. Servicing should be performed by a qualified service technician.
- Do not use in rain or where floor is wet.

This tool is intended for indoor residential use only. WARNING: Do not permit fingers to touch the terminals of plug when installing or removing the plug to or from the outlet.

If power cord is worn or cut, or damaged in any way, have it replaced immediately.

### 110-120 Volt, 60 Hz. Tool Information

**NOTE**: The plug supplied on your tool may not fit into the outlet you are planning to use. Your local electrical code may require slightly different power cord plug connections. If these differences exist refer to and make the proper adjustments per your local code before your tool is plugged in and turned on.

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, as shown. 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.

A temporary adapter may be used to connect this plug to a 2-pole outlet, as shown, if a properly grounded outlet is not available. This 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, extension from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

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

WARNING: If not properly grounded, this tool can cause an electrical shock, particularly when used in damp locations, in proximity to plumbing, or out of doors. If an electrical shock occurs there is the potential of a secondary hazard, such as your hands contacting the sawblade.





# Motor Specifications and Electrical Requirements (continued)

## Wire Sizes

**NOTE:** Make sure the proper extension cord is used and is in good condition. The use of any extension cord will cause some loss of power. To keep this to a minimum and to prevent overheating and motor burn-out, use the table shown to determine the minimum wire size (A.W.G.) extension cord.

Use only 3-wire extension cords which have 3-prong grounding type plugs and 3-pole receptacles which accept the tools plug.

Extension	Wire Sizes Required
Cord Length	for (A.W.G.)
	110-120V
0-25 Ft.	18
26-50 Ft.	16

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# Unpacking and Checking Contents

**Tools Needed** 



## Unpacking

WARNING: To avoid injury, from unexpected starting or electrical shock, do not plug the power cord into a power source outlet during unpacking and assembly. This cord must remain unplugged whenever you are working on the saw

Your scroll saw is fully assembled and shipped complete in one box.

**IMPORTANT:** Never lift this saw by the arm which holds the blade or damage will occur to your saw.

Separate all parts from packaging materials and check each item with illustration and "List of Loose Parts". Make certain all items are accounted for before discarding any packaging material.

NOTE: Before beginning assembly, check that all parts are included. If you are missing any part, do not assemble the saw. Contact your Sears Service Center to get the missing part. Sometimes small parts can get lost in packaging material. DO NOT throw away any packaging until saw is put together. Check packaging for missing parts before contacting Sears. A complete parts list (Repair Parts) is at the end of the manual. Use the list to identify the number of the missing part.

## List of Loose Parts

lterr	n Description G	Aty.
А	16" Scroll Saw	
	(Completely Assembled)	1
В	Owner's Manual	1
С	Loose Parts Bag containing:	
	Blade	1
NOT	••••••••••••••••••••••••••••••••••••••	

**NOTE:** Hardware to mount this scroll saw to a bench or leg set is **not** supplied. See mounting instructions for recommended hardware size.



Medium Standard Screwdriver







- 1. Tension Knob Tightening the knob (clockwise) will increase the tension on the blade. Loosening it (counterclockwise) will decrease the tension.
- Work Hold-Down and Blade Support Provides added control of workpiece, protection for operator and support for the blade.
- 3. Bevel Scale Shows angle table is tilted for bevel cutting.
- Bevel Indicator Points to the approximate angle of the blade in relation to the table top.
- 5. Table Bevel Lock Knob When tightened, this knob secures table at desired bevel angle. Loosening knob allows the table to tilt up to 45° for bevel cuts.
- Speed Control/On-Off Knob For speed control setting, refer to the

"Choice of Blade and Speed" table. The On-Off knob has a locking feature, This Feature Is Intended To Help Prevent Unauthorized Use By Children And Others. (See more on next page.

- 7. Storage Drawer For convenient storage of pin and plain blades.
- 8. Blade Guard Defines area of moving blade.
- 9. Blade Holders Retain and position the blade.
- Blade Guard/Hold Down Knob -Allows for secure angular positioning of blade guard, work hold down and sawdust blower.
- 11. Height Adjustment Knob Allows for vertical positioning of item in number 10.

## Speed Control/On-Off Knob (continued)

- To turn machine "ON", place fingers on Speed Control/On-Off Knob and pull out.
- To turn machine "OFF", push in Speed Control/On-Off Knob.

### WARNING: Never leave the machine unattended until it has come to a complete stop.

The variable speed control may be adjusted to the approximate speeds identified on the control panel. Suggested speeds are identified under "Choice of Blade and Speed". Turn the control knob clockwise to increase strokes per minute and counterclockwise to reduce the strokes per minute.

**NOTE:** If the unit stops running during use, it typically means too much force is being used to feed the workpiece into the blade, and the built-in circuit breaker automatically shuts the unit off to protect the motor. To restart unit, turn switch off to reset circuit breaker and then back on to continue cutting.

Due to circuit protection, the unit may not always start. If unit does not start, shut unit off, wait approximately ten seconds, and restart.

Do not cycle unit on and off. Built-in circuit protection may prevent unit from immediately restarting. Wait approximately ten seconds after shutting unit off before restarting.

 To lock knob in "OFF" position, install a padlock from the left side of the knob through the hole below the knob as illustrated, and lock the padlock. (Padlock is not supplied with the saw.)

WARNING: For your own safety, always push the knob "Off" when machine is not in use. Also, in the event of a power failure (all of your lights go out), push knob "Off". "Lockout" your knob with a padlock as shown. This will prevent the machine from starting up again when the power comes back on.



# Alignment (Adjustments)

# Changing the Table Bevel Angle

- The scroll saw work table can be tilted to the left for bevel cutting up to 45° from the 0° or horizontal cutting position.
- A bevel scale and indicator are provided under the work table as a convenient reference for setting the approximate table angle for bevel cutting.

**NOTE:** A scroll saw is a scroll curve cutting tool. It is not intended for making precise angular cuts in wood. The indicator is provided to give approximate angular readings. A precision protractor or square should be used to measure a more precise blade to table angular locations.

# To Align the Bevel Indicator

- Loosen the table bevel lock knob and use a small square to set the table at 90° to the blade.
- When there is no space between the square and the blade, hold table in place and tighten the bevel lock knob. The table should now be approximately 90° to the blade.





- Loosen the screw holding the bevel scale pointer and adjust to 0°. Tighten screw.
  - Remember, the bevel scale is a convenient guide but should not be relied upon for precision.



# Adjusting Work Hold-down

WARNING: To avoid injury from accidental starting, always turn switch "OFF" and unplug power cord from outlet before removing or replacing the blade.

The purpose of the work hold-down foot is to hold the work against the table so that it is less likely to lift with the up stroke of the blade. It should lie flat on the workpiece with the front prongs straddling the blade.

- The work hold-down foot is attached to the blade guard rod. The height of the work hold-down foot is adjusted by loosening the height adjustment knob and moving the guide post up or down. The work hold-down foot is adjusted front to back and left-to-right by loosening the hold-down knob located on the bracket, as illustrated.
- 2. When the table is tilted, the work holddown foot can be adjusted by loosening the height adjustment knob and adjusting the foot to the same angle as the table. The work hold-down foot should always be adjusted as close to the blade as possible without touching it and positioned directly on the surface of the workpiece.

**NOTE:** For most applications tightening the hold down knob with your fingers is adequate. However, the hold down knob can also be tightened using a 5/16" hex wrench as shown. For better versatility, the height adjustment knob and hold down knob can be interchanged.

WARNING: To avoid injury from thrown objects, remove all tools from the saw.

## Over Tensioning Or Under Tensioning Blade

Too much or too little blade tension could cause blades to break rapidly.

The thicker, harder and more abrasive the wood you are cutting, the more blades you will have to use. Blade breakage is caused by the following:

- Over tension or under tension.
- Twisting or bending the blade.
- Over use blade life exhausted.
- Over Aggressive Feeding of the workpiece into the blade by going too fast.



Height Adjustment Knob

# Alignment (Adjustments) (continued) -

# Removing Pin End Blades

WARNING: To avoid injury from accidental starting, always turn switch "OFF" and unplug power cord from outlet before removing or replacing the blade.

**NOTE:** Saw comes with pin end blades. If you are going to use plain end blades, refer to the instructions under "Installing Plain End Blades".

- Loosen tension on blade by turning tension knob counterclockwise about three full turns.
- Loosen upper and lower blade holder knobs by turning the blade holder knobs counterclockwise about three full turns. To make lower blade holder access easier, tilt the table to 45°, and raise the arms to the up position using a screwdriver to rotate the motor shaft.
- Remove blade from the lower blade holder by pushing down on the upper arm, releasing the pin end blade from the lower blade holder. Remove blade from the upper blade holder by slightly lifting up on the blade and pulling forward.







Lower Blade Holder



# Installing Pin End Blades

#### Pin end blade set up:

- Check that the blade tension knob is loose.
- Check that the upper and lower blade holder knobs are loose. Spread blade holder jaws open using fingers.

NOTE: A rubber band looped around the back of the blade holder will automatically open the jaws when the knobs are loosened which will make changing blades easier. See illustration below.

- Install the blade through the opening in the table with the teeth pointing down.
   Engage the pin into the "V" notch of the lower blade holder.
- Pull up on the blade and engage the upper pin in the "V" notch of the upper blade holder.
- Align blade straight with the front face of the blade holders. Tighten upper and lower blade holder knobs by turning knobs clockwise until the jaws close evenly against the blade.

**NOTE:** To prevent blade holder damage, do not use pliers to tighten knob.

- Carefully tighten the blade tension by turning the tension knob clockwise
   until you feel the slack in the blade is removed.
- Check to see that the pins are properly located in the V-notch slot. Turn the tension knob an additional two full turns clockwise. This amount of blade tension should do well for most cutting operations and blades. The number of turns will be approximately two full turns. This will vary one or two turns depending on blade thickness and blade type.
- Make sure the blade is properly installed. Before applying power, rotate the motor shaft by hand using a screwdriver in the motor shaft slot as shown.

WARNING: To avoid injury from thrown objects, remove all tools from the saw.



# Alignment (Adjustments) (continued)-

# **Removing Plain End Blades**

WARNING: To avoid injury from accidental starting, always turn switch "OFF" and unplug power cord from outlet before removing or replacing the blade.

- Loosen tension on blade by turning tension knob counterclockwise about three full turns.
- Loosen the upper blade holder by turning the knob on the holder counterclockwise so the jaws open.
- Remove blade from upper blade holder.
- Loosen the lower blade holder knob in the same way as the upper blade holder in step 2. To make lower blade holder access easier, tilt the table to 45° and raise the arms to the up position using a screwdriver to rotate the motor shaft.
- · Remove blade from lower blade holder.







## Installing Plain End Blades

- Check that the blade tension knob is loose.
- Check that the upper and lower blade holder knobs are loose. Spread blade holder jaws open using fingers.

NOTE: A rubber band looped around the back of the blade holder will automatically open the jaws when the knobs are loosened which will make changing blades easier. See illustration below.

- Install the blade through the hole in the table and into the lower blade holder. The blade teeth should point down. Position the blade so that it is straight with the front face of the blade holder and extends beyond the blade holder as shown.
- Tighten the lower blade holder knob by turning the knob clockwise
   until the jaws close securely.

**NOTE:** To maintain blade holder clamping force, keep finger knob threads cleaned and oiled using all purpose household machine (or motor) oil. To prevent blade holder damage, do not use pliers to tighten knob.

- Use the same procedure to install the blade into the upper blade holder. Before tightening the jaws using the upper blade holder knob, adjust the position of the upper blade holder by turning the blade tension knob until the end of the blade is near the top of the blade holder as shown. Tighten the upper blade holder knob by turning the knob clockwise until the jaws close securely.
- Tighten the blade tension knob clockwise until the blade is tensioned. The number of turns will be approximately two full turns. This will vary one or two turns depending on the blade thickness and blade type.
- Make sure the blade is properly installed. Before applying power, rotate the motor shaft by hand using a screwdriver in the motor shaft as shown.

NOTE: To prevent blade holder damage, do not use pliers to tighten knob.



# Alignment (Adjustments) (continued)

#### **Dust Blower**

The dust blower will direct air to the most effective point on the cutting line when the hold down is adjusted. No adjustment is necessary to the blower.

## **Blade Guard**

The blade guard will always be positioned parallel to the blade. No adjustment is necessary.

# Mounting the Scroll Saw

## Workbench Applications

- . When mounting this saw to a workbench a solid wood bench is preferred over a plywood bench where noise and vibration will be more noticeable.
- · Hardware to mount this saw to a workbench is not supplied with the saw. However, we recommend the hardware used be not smaller than the following.

Qty.

#### Description

Hex Head Screw,
1/4-20 x length required
Flat Washers, 1/4 I.D
Lock Washers, 1/4 I.D
Hex Nuts, 1/4-20
• A soft foam had to place between your

A solutioam pad to place between your scroll saw and workbench is not supplied with the saw. However, we highly recommend the use of such a pad to reduce noise and vibration.

#### Description

Qty. Soft foam pad such as carpet padding, 24" x 12" x 1/2" ....

Do NOT over tighten mounting bolts leave some cushion in the foam pad for absorbing noise and vibration.

NOTE: Through normal use sawdust accumulates under the unit. Frequently clean sawdust from under the unit to prevent the linkage from binding, which could overload and damage the motor.

## Legset Applications

1. If you prefer to mount your saw to a leg set, we recommend the leg set for bench top tools which is available through Sears Retail Stores. The number of this leg set is 9-22244. This leg set is an optional accessory and instructions to mount the scroll saw to this leg set are included in the leg set package.





# **Before Each Use**

Inspect your saw.

**Disconnect The Saw.** To avoid injury from accidental starting, turn the switch "OFF", unplug the saw before changing the setup, removing covers, guards or blade.

## Check Damaged Parts. Check for:

- · Alignment of moving parts.
- Binding of moving parts.
- Broken parts.
- · Stable mounting.
- Any other conditions that may affect the way the saw works.
- If any part is missing, bent or broken in any way, or any electrical parts don't work properly, turn the saw off and unplug the saw. **Replace** damaged, missing or failed parts before using the saw again. **Keep Guard In Place** and in working order.

Maintain Tools With Care. Keep the saw clean for best and safest performance. Follow instructions for lubricating.

# Remove adjusting keys and wrenches from tool before turning it on.

To avoid injury from jams, slips or thrown pieces:

- Use Only Recommended Accessories. (See "Recommended Accessories" section). Consult this Owner's manual for recommended accessories. Follow the instructions that come with the accessories. The use of improper accessories may cause risk of injury to persons.
- Choose the right size and style blade for the material and the type of cutting you plan to do.
- Make sure the blade teeth point downward, toward the table.

- Make sure the blade tension is properly adjusted.
- Keep Work Area Clean. Cluttered areas and benches invite accidents. Floor must not be slippery.

To avoid burns or other fire damage, never use the saw near flammable liquids, vapors or gases.

- Know Your Saw. Read and understand the owners manual and labels affixed to the tool. Learn its applications and limitations as well as the specific potential hazards peculiar to this tool.
- To avoid injury from accidental contact with moving parts, don't do layout, assembly or setup work on the saw while any parts are moving.
- Avoid Accidental Starting. Make sure switch is "OFF" before plugging saw into a power outlet.

## Plan your work.

- Use The Right Tool. Don't force tool or attachment to do a job it was not designed to do.
- Use this scroll saw to cut only wood, wood-like products, plastics and non-ferrous metals.

CAUTION: This saw is <u>NOT</u> designed for cutting ferrous metals like iron or steel. When cutting nonferrous metals (brass, copper and aluminum, etc.), metal shavings can react with wood dust and start a fire. To avoid this:

- Remove all traces of wood dust from inside the saw.
- Remove all traces of metal dust from on or around the saw before sawing wood again.

# Safety Instructions for Basic Saw Operations (continued)

### Plan Ahead To Protect Your Eyes, Hands, Face And Ears

Any power saw can throw foreign objects into the eyes. This can cause permanent eye damage. Wear safety goggles (not glasses) that comply with ANSI Z87.1 (shown on package). Everyday eyeglasses have only impact resistant lenses. They are not safety glasses. Safety goggles are available at Sears Retail Stores. Glasses or goggles not in compliance with ANSI Z87.1 could seriously hurt you when they break.

#### Dress for safety

- Do not wear loose clothing, gloves, neckties or jewelry (rings, wristwatches). They can get caught and draw you into moving parts.
- · Wear non-slip footwear.
- Tie back long hair.
- Roll long sleeves above the elbow.
- Noise levels vary widely. To avoid possible hearing damage, wear ear plugs or muffs when using saw for hours at a time.
- For dusty operations, wear a dust mask along with the safety goggles.

#### Inspect your workpiece.

Make sure there are no nails or foreign objects in the part of the workpiece to be cut.

# Use extra caution with large, very small or awkward workpieces

- Never use this tool to finish pieces too small to hold by hand.
- Use extra supports (tables, saw horses, blocks, etc.) for any workpiece large

#### Whenever Saw Is Running

WARNING: Don't let familiarity (gained from frequent use of your saw) cause a careless mistake. A careless fraction of a second is enough to cause a severe injury.

 Before starting your cut, watch the saw while it runs. If it makes an unfamiliar noise or vibrates a lot, stop immediately. Turn the saw off. Unplug the saw. Do not restart until finding and correcting the problem. enough to tip when not held down to the table top.

- Never use another person as a substitute for a table extension, or as additional support for a workpiece or to help feed, support or pull the workpiece.
- When cutting irregularly shaped workpieces, plan your work so it will not pinch the blade. A piece of molding, for example, must lay flat or be held by a fixture or jig that will not let it twist, rock or slip while being cut.
- Properly support round material such as dowel rods or tubing. They have a tendency to roll during a cut, causing the blade to "bite". To avoid this, always use a "V" block.
- Cut only one workpiece at a time.
- Clear everything except the workpiece and related support devices off the table before turning the saw on.

#### Plan the way you will hold the workpiece from start to finish.

- Do not hand hold pieces so small that your fingers will go under the blade guard. Use jigs or fixtures to hold the work and keep your hands away from the blade.
- Avoid awkward operations and hand positions where a sudden slip could cause fingers or hand to move into the blade.
- Don't Overreach. Keep good footing and balance.
- Keep your face and body to one side of blade, out of line with a possible thrown piece if the blade should break.
- Keep Children Away. Keep all visitors a safe distance from the saw. Make sure bystanders are clear of the saw and workpiece.
- Don't Force Tool. It will do the job better and safer at its designed rate. Feed the workpiece into the saw blade only fast enough to let it cut without bogging down or binding.

## Before freeing any jammed material:

- Turn switch "OFF".
- Wait for all moving parts to stop.
- Unplug saw.

When backing up the workpiece, the blade may bind in the kerf (cut). This is usually caused by sawdust clogging up the kerf. If this happens:

# Before Leaving The Saw:

- Wait for all moving parts to stop.
- Make Workshop Child-proof. Unplug the saw. Lock the workshop and ON/

# **Basic Saw Operations**

# **General Instructions**

**Please**, read and understand the following items about your scroll saw before attempting to use the saw.

- The saw does not cut wood by itself.
   You allow the saw to cut wood by guiding the wood into the blade as it moves.
- The blade teeth cut wood **only** on the down stroke.
- You must guide the wood into the blade slowly because the teeth of the blade are very small and they can only remove wood when they are on the down stroke.
- There is a learning curve for each person who wants to use this saw. During that period of time it is expected that some blades will break until you learn how to use the saw and receive the greatest benefit from the blades.
- Best results are achieved when cutting wood less than one inch thick.
- When cutting wood thicker than one inch the user must guide the wood very, very slowly into the blade and take extra care not to bend or twist the blade while cutting in order to maximize blade life.
- Teeth on scroll saw blades wear out and as such must be replaced frequently for best cutting results. Scroll saw blades generally stay sharp for 1/2 hour to 2 hours of cutting.

- Turn switch "OFF".
- Wait for all moving parts to stop.
- Unplug saw.
- With a flat blade screwdriver, turn the motor by hand while backing up the workpiece.

Before removing loose pieces from the table, turn saw off and wait for all moving parts to stop.

OFF knob on the saw. Store the key away from children and others not qualified to use the tool.

- To get accurate cuts, be prepared to compensate for blade's tendency to follow the wood grain as you are cutting.
- This scroll saw is intended to cut wood, wood-like products, plastics and nonferrous metals.
- When choosing a blade to use with your scroll saw, consider the following carefully.
  - Very fine, narrow blades should be used to scroll cut in thin wood 1/4 inch thick or less.
  - To cut wood over 1/4 inch thick, use wider blades.
  - Most blade packages state the size or thickness of wood which that blade is intended to cut, and the radius, size of curve, which can be cut with that blade.
  - Wider blades can't cut curves as tight or small as thinner blades.
  - Narrower blades work well only on thinner wood material.
- This saw uses 5 inch long pin and plain end type blades only. See your Sears Retail Store for accessory blades.
- Blades wear faster when cutting plywood, which is very abrasive; when sawing wood which is thicker than the 7/8 inch blade stroke; and when sawing hardwood, or when side pressure is placed on the blade.

# Basic Saw Operations (continued)

# **Making Interior Scroll Cuts**

 One of the features of this saw is that it can be used to make scroll cuts on the interior of a board without breaking or cutting into the outline or perimeter of the board.

WARNING: To avoid injury from accidental starting, always turn switch "OFF" and remove plug from power source outlet before removing or replacing the blade.

- To make interior cuts in a board, remove the scroll saw blade as explained in the Assembly section.
- Drill a 1/4" or larger hole in the board you will use to make interior cuts.
- Place the board on the saw table with the hole in the board over the access hole in the table.
- Install the blade through the hole in the board and adjust blade tension.

# Choice of Blade and Speed

Your scroll saw accepts a wide variety of 5" plain end and pin end blades. As a general guide:

- Use a finer tooth blade for cutting thin workpiece, when a smoother cut is required for hard materials or when using slow saw speeds.
- Use a coarser tooth blade for cutting thicker workpieces, when making straight cuts, for medium to soft materi-

als or when using faster saw speeds. • Use a blade that will have at least 2

teeth in the material at all times.

 Use thin, narrow blades for tight radius work, and thick, wide blades for large curves and straight cuts.

Listed below are examples of some blades and their intended uses:

Teeth/ Inch	Width	Thickness	Speed	Application
20 15	.029" .110"	.012" .018"	500- 600	Tight radius work; 3/32" to 1/8" wood veneer, wood, bone, fiber, plastics, non-ferrous metals, etc.
12.5	.038"	.016"	600- 1200	Close radius cutting in materials 3/32" to 1/2" thick. Good for hard and soft wood, bone, horn, plastics, etc.
11.5 10	.053" .110"	.018" .018"	1200- 1700	For hard and soft woods and wood- like products 3/16" and up.

## Pin and Plain end Blades





# Maintenance

WARNING: For your own safety, push control knob "OFF" and remove plug from power source outlet before maintaining or lubricating your saw.

#### General

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

Drawer - Apply oil safe for plastic to drawer and guide as necessary.

To maintain blade holder clamping force, keep finger knob threads cleaned and oiled using all purpose household machine (or motor) oil.



#### Motor/electrical

The motor bearings are permanently lubricated and require no further lubrication.

Do not attempt to oil the motor bearings or service the motor internal parts.

WARNING: If the power cord is worn, cut or damaged in any way. have it replaced immediately.

WARNING: To avoid fire or electrocution, reassemble electric parts with only approved service parts. Reassemble exactly as originally assembled.

## **Arm Bearings**

Lubricate the arm bearings after 10 hours of use. Re-oil after every 50 hours of use or whenever there is a squeak coming from the bearings.

- Turn saw on its side.
- Squirt a generous amount of SAE 30 oil around the shaft end and bronze bearing.
- Let the oil soak in overnight in this position.
- Next day repeat the above procedure for the opposite side of the saw.



# Sears Recommends the Following Accessories

#### Recommended Accessories

# Troubleshooting

WARNING: For your own safety, turn switch "OFF", and remove plug from power source outlet before troubleshooting your scroll saw.

Problem	Probable Cause	Remedy Schedule
Breaking Blades.	<ol> <li>Wrong tension</li> <li>Over working blade.</li> <li>Wrong blade application.</li> <li>Twisting blade in wood.</li> </ol>	<ol> <li>Adjust blade tension.</li> <li>Reduce feed rate.</li> <li>Use narrow blades for cutting thin wood, wide blades for thicker wood.</li> <li>Avoid side pressure on blade.</li> </ol>
Plain end blade slips within blade clamp	<ol> <li>Blade clamp not tightened</li> <li>End of blade becomes burnished.</li> <li>Dirty finger knob threads.</li> </ol>	<ol> <li>Tighten blade clamp.</li> <li>Roughen end of blade with emery (100 grit)</li> <li>Clean and oil threads.</li> </ol>
Motor will not run.	<ol> <li>Damaged cord or plug.</li> <li>Damaged motor or control board.</li> </ol>	<ol> <li>Replace damaged parts before using saw again.</li> <li>Consult Sears Service. Any attempt to repair this motor or control board may create a HAZARD unless repair is done by a qualified service techni- cian. Repair service is available at your nearest Sears Store.</li> </ol>
Vibration NOTE: There will always be some vibration present when the saw is run- ning because of the blade and arm movement.	<ol> <li>Improper mounting of the saw.</li> <li>Unsuitable mount- ing surface.</li> <li>Loose table</li> <li>Loose motor mount- ing.</li> </ol>	<ol> <li>See mounting instructions in this manual for proper mounting tech- nique.</li> <li>The heavier your workbench is, the less vibration will occur. A plywood workbench will not be as good a work surface as the same size solid lum- ber. Use common sense in choosing a mounting surface.</li> <li>Tighten table lock knob.</li> <li>Tighten motor mounting screws.</li> </ol>
Motor stops dur- ing cuts	<ol> <li>Aggressive feeding causes Current Pro- tector to shut motor off.</li> <li>Excessive sawdust under unit may bind linkage, causing current protector to shut motor off.</li> </ol>	<ol> <li>Turn machine "OFF" and then back "ON" to continue cutting. Slow down the feed rate of material into blade.</li> <li>Clean sawdust from under unit.</li> </ol>

# Wiring Diagram

WARNING: To avoid fire or shock, use only recommended service parts and reassemble exactly as originally assembled.



1.000



Parts List for Craftsman 16" Variable Speed Scroll Saw Model No. 113.236090 Always Order By Part Number-Not By Key Number

1         823887-1         Housing (Includes Key #2)         29         823802           2         66071         Screw Pan Hd Ty "T 8-32 x 1-1/8         30         STD502503           3         60326         Pin, Roll. 219 x 3/4         32         823830         31         823830           5         65071         Screw Pan Hd Ty "T 8-32 x 1-1/8         31         823806         323806           5         821521         Screw Hex Wash Shidr Ty "T 1/4-20 x 1//2         33         823806         323806           7         823804         Drawer         Drawer         36         823828         323806           7         823804         Drawer         Drawer         36         823829         323828           8         S7D561026         Washer 17/64 x 5/8 x 1/16         36         823828         37         823829           11         821520         Knob Bevel         37         823829         216278           12         821500         Label Bevel Scale         36         823791         823829           12         821510         Label Bevel Scale         36         821529         821529           13         823807         Knob Bevel Scale         Screw Hex Washer Hd Ty "T" #10 x 5/8	Key No.	art No.	Description
2         66071         Screw Pan Hd Ty "T 8-32 × 1-1/8         30         STD502503           3         60326         Pin, Roll. 219 X 3/4         8-32 × 1-1/8         31         823830           5         821521         Screw Hex Wash Shidr Ty "T" 1/4-20 × 1/2         33         823806         823806           5         821521         Screw Hex Wash Shidr Ty "T" 1/4-20 × 1/2         33         823806         823806           7         823804         Guide Drawer         35         823806         823828         823828           7         823804         Guide Drawer         35         823828         35         823828           8         STD601103 * Screw Pan Hd Ty "T" 10-32 × 3/8         36         823828         36         64729           9         821520         Washer IT/64 × 5/8 × 1/16         37         823828         35         823828           11         821520         Washer Hd Ty "T" #10 × 5/8         36         823829         823828           13         8215105         Lockwasher Ad Ty "T" #10 × 5/8         821530         821530           14         823305         Screw Hex Washer Hd Ty "T" #10 × 5/8         45         821530           14         823335         Nut Hox Jam 38-32 <td< td=""><td>29 82</td><td>3802</td><td>Coupling Eccentric</td></td<>	29 82	3802	Coupling Eccentric
3       60326       Pin, Roll. 219 X 3/4       31       823830         4       823831       Table       32       823806         5       821521       Screw Hex Wash Shidr Ty "T" 1/4-20 X 1/2       33       823806         6       823803       Guide Drawer       34       823800         7       823804       Drawer       35       823800         8       871601103       Screw Hex Wash Shidr Ty "T" 10-32 X 3/8       35       823800         9       821520       Washer 17/64 X 5/8 X 1/16       35       823826         10       STD551025       Washer 17/64 X 5/8 X 1/16       38       823826         11       821520       Washer 17/64 X 5/8 X 1/16       38       823826         11       821520       Washer 17/64 X 5/8 X 1/16       38       823826         12       821520       Washer 17/64 X 5/8 X 1/16       38       823826         13       821520       Washer 17/64 X 5/8 X 1/16       38       823826         14       821520       Knob Bevel       17       823826       823826         15       821520       Knob Bevel       17       41       823826         16       823816       Knob       Knob	x 1-1/8 30 ST	D502503	Screw Soc Set 1/4-20 x 3/8
4       823831       Table       323806       823827         5       821521       Screw Hex Wash Shidr Ty "T" 1/4-20 x 1/2       33       823806         7       823804       Drawer       35       64729         8       STD601103       Screw Pan Hd Ty "T" 10-32 x 3/8       33       823828         8       STD601103       Screw Pan Hd Ty "T" 10-32 x 3/8       36       823828         9       STD551025       Washer 17/64 x 5/8 x 1/16       36       823828         10       STD551025       Washer 17/164 x 5/8 x 1/16       37       823828         11       821520       Knob Bevel       38       823828         12       8215102       Label Bevel Scale       39       216278         13       823815       Housing Motor       41       508855         14       823807       Guard Finger       42       821539         15       823816       Knob       Screw Hex Washer Hd Ty "T" #10 x 5/8       44       824531         16       823816       Screw Hex Washer Hd Ty "T" #10 x 5/8       45       821539       821539         16       823806       Screw Hex Washer Hd Ty "T" #10 x 5/8       45       821531       45         17	31 82	3830	Support Plate
5       821521       Screw Hex Wash Shidr Ty "T 1/4-20 x 1/2       33       823806         7       823808       Guide Drawer       35       64729         8       821552       Screw Pan Hd Ty "T" 10-32 x 3/8       35       823828         8       821552       Screw Pan Hd Ty "T" 10-32 x 3/8       35       823828         9       821522       Screw Pan Hd Ty "T" 10-32 x 3/8       37       823828         10       STD551025       Washer 17/64 x 5/8 x 1/16       35       823828         11       821520       Knob Bevel       38       823828         12       8215102       Label Bevel Scale       39       216278         13       823807       Guard Finger       39       216278         14       823807       Guard Finger       40       824646         15       8223016       Knob       39       821529         16       822016       Screw Hex Washer Hd Ty "T" #10 x 5/8       40       821531         17       823301       Screw Hex Washer Hd Ty "T" #10 x 5/8       42       821531         17       8155337       Lockwasher 3/8       823533       821539         18       823301       Screw Hex Washer Hd Ty "T" #10 x 5/8 <td< td=""><td>32 82</td><td>3827</td><td>Spring Hold Down</td></td<>	32 82	3827	Spring Hold Down
6       823803       Guide Drawer       34       823800         7       823804       Drawer       35       64729         8       STD601103       Screw Pan Hd Ty "T" 10-32 x 3/8       35       64729         9       821522       Scale Bevel       37       823828         10       STD551025       Washer 17/64 x 5/8 x 1/16       37       823822         11       821520       Knob Bevel       37       823829         12       821520       Knob Bevel       39       821629         13       821510       Label Bevel       39       823829         14       823807       Guard Finger       40       824646         15       823815       Housing Motor       42       821539         16       822016       Screw Hex Washer Hd Ty "T" #10 x 5/8       44       821539         17       815335       Nut Hex Jam 3/8-32       46       821539         16       8223016       Screw Hex Washer Hd Ty "T" #10 x 5/8       47       821539         17       815335       Nut Hex Jam 3/8-32       46       821539       821539         17       8153351       Lockwasher 3/8       821530       823531       823531 </td <td>"T' 1/4-20 X 1/2 33 82</td> <td>3806</td> <td>Guard, Blade</td>	"T' 1/4-20 X 1/2 33 82	3806	Guard, Blade
7         823804         Drawer         35         64729           8         STD601103 * Screw Pan Hd Ty "T" 10-32 x 3/8         35         64729           9         821522         Scale Bevel         37         823828           10         STD551025 * Washer 17/64 x 5/8 x 1/16         39         823829         823829           11         821520         Knob Bevel         39         824646           11         821510         Label Bevel         39         824646           12         823815         Housing Melor         39         824646           13         823815         Housing Melor         40         824646           14         823016         Knob         824119         42         821539           15         823816         Screw Hex Washer Hd Ty "T" #10 x 5/8         44         821539           17         815335         Nut Hex Jam 3/8-32         45         823799           16         822016         Screw Hex Washer Hd Ty "T" #10 x 5/8         45         821531           17         8153355         Lockwasher 3/8         45         821531           17         8153356         Nut Hex Jam 3/8-32         45         823791           17 <td>34 82</td> <td>3800</td> <td>Clamp Hold Down</td>	34 82	3800	Clamp Hold Down
8       STD601103       Screw Pan Hd Ty "T" 10-32 x 3/8       36       823828         9       821522       Scale Bevel       37       823822         10       STD551025       Washer 17/64 x 5/8 x 1/16       38       823822         11       821520       Knob Bevel       38       823825         12       821510       Label Bevel Scale       39       216278         13       823815       Housing Motor       39       216278         14       823807       Guard Finger       40       824646         15       823816       Knob       Even Hex Washer Hd Ty "T" #10 x 5/8       42       821539         15       823816       Knob       Screw Hex Washer Hd Ty "T" #10 x 5/8       43       821539         16       8223016       Nut Hex Jam 3/8-32       44       821539       45       823789         17       815335       Nut Hex Jam 3/8-32       46       823789       47       823789         17       815336       Nut Hex Jam 3/8-32       823811       45       823789       45       8233791         17       815336       Nut Hex Jam 3/8-32       82855139       45       823811       45       8233791         18 <td>35 64</td> <td>729</td> <td>Screw, Soc Set, 10-32 x 3/16</td>	35 64	729	Screw, Soc Set, 10-32 x 3/16
9       821522       Scale Bevel       37       823822         10       STD551025       Washer 17/64 x 5/8 x 1/16       38       823822         11       821520       Knob Bevel       38       823829         12       821510       Label Bevel Scale       38       823825         13       823815       Housing Motor       38       823855         14       823807       Guard Finger       40       821539         15       823816       Knob       Exceew Hex Washer Hd Ty "T" #10 x 5/8       42       821539         15       823816       Screw Hex Washer Hd Ty "T" #10 x 5/8       43       821539         16       8223016       Nut Hex Jam 3/8-32       44       821539         17       815335       Nut Hex Jam 3/8-32       45       823789         16       823801       Cord w/Plug       47       823789         17       815335       Nut Hex Jam 3/8-32       46       823789         18       STD551237       Lockwasher 3/8       47       8233791         19       823801       Cord w/Plug       823811       45       823811         20       82351237       Lockwasher 410       92       823811	x 3/8 36 82	3828	Support Bar
10       STD551025       Washer 17/64 x 5/8 x 1/16       38       823829         11       821520       Knob Bevel       39       216278         12       821510       Labet Bevel Scale       39       216278         13       823815       Housing Motor       40       824646         14       823807       Guard Finger       39       216278         15       823816       Knob       Knob       40       821539         16       8223016       Strow Hex Washer Hd Ty "T" #10 x 5/8       43       821539         17       815335       Nut Hex Jam 3/8-32       44       821531         17       815336       Nut Hex Jam 3/8-32       45       823789         18       822016       Strockwasher 3/8       47       823789         19       823792       Board, Control       47       823789         20       823801       Cord w/Plug       47       8233811         21       82351237       Lockwasher #10       53       8256879         22       823763       Board, Control       48       8215310         21       8238301       Cord w/Plug       48       8215310         22       8233616<	37 82	3822	Plate Clip
11       821520       Knob Bevel         12       821510       Label Bevel Scale       39       216278         13       823807       Guard Finger       40       824646         14       823807       Guard Finger       40       824646         15       823807       Guard Finger       40       824646         16       822016       Knob       41       508855         16       822016       Screw Hex Washer Hd Ty "T" #10 x 5/8       42       821530         16       822016       Screw Hex Washer Hd Ty "T" #10 x 5/8       44       821531         17       815335       Nutlew Hex Washer Hd Ty "T" #10 x 5/8       44       821531         18       STD551237 * Lockwasher 3/8       44       821531       45       823791         19       823792       Board, Control       47       823791       46       8237791         20       823801       Cord w/Plug       80       47       8233711       47       8233711         21       823834       Motor       STD551237 * Lockwasher #10       50       926879       56       923811         22       823544       Motor       STD551200       Vasher #10       55       <	38 82	3829	Support, Hold Down
12       821510       Labei Bevel Scale       40       824646         13       823815       Housing Motor       41       508855         14       823807       Guard Finger       42       821529         15       823816       Knob       42       821539         16       822016       Screw Hex Washer Hd Ty "T" #10 x 5/8       44       821531         17       815335       Nut Hex Jam 3/8-32       45       824531         18       815335       Nut Hex Jam 3/8-32       45       824531         18       815335       Nut Hex Jam 3/8-32       46       824531         18       815335       Nut Hex Jam 3/8-32       46       824531         18       815335       Nut Hex Jam 3/8-32       46       823799         19       823792       Board, Control       47       823791         20       823801       Cord w/Plug       47       8233711         21       823834       Motor       47       823311         22       823168       A4       823311       8233810         23       823364       Motor       49       823311         20       823616       Lockwasher #10       50 <td>39 21</td> <td>6278</td> <td>Screw, Soc Cap, 1/4-20 x 1/2</td>	39 21	6278	Screw, Soc Cap, 1/4-20 x 1/2
13       823815       Housing Motor       41       508855         14       823807       Guard Finger       42       821539         15       823816       Knob       42       821539         16       822016       Screw Hex Washer Hd Ty "T" #10 x 5/8       43       821530         17       815335       Nut Hex Jam 3/8-32       44       821531         17       815335       Nut Hex Jam 3/8-32       45       824313         17       815335       Nut Hex Jam 3/8-32       45       824313         17       815335       Nut Hex Jam 3/8-32       46       824313         18       827051237       Lockwasher 3/8       45       823789         19       823792       Board, Control       47       823371         20       823801       Cord w/Plug       47       823371         21       823634       Motor       49       823371         21       823634       Motor       50       9-26879         22       823168       Screw Hex Washer 41 10-32 x 3/8 Green       50       9-26879         22       8233610       Lockwasher #10       50       9-26879       50         23       STD551210<	40 82	14646	Bellows Cover
14       823807       Guard Finger       42       821529         15       823816       Knob       43       821531         16       822016       Screw Hex Washer Hd Ty "T" #10 x 5/8       43       821531         17       815335       Nut Hex Jam 3/8-32       45       824313         17       815335       Nut Hex Jam 3/8-32       46       824313         18       STD551237 * Lockwasher 3/8       46       823793         19       823792       Board, Control       47       823791         20       823801       Cond w/Plug       47       823811         21       823634       Motor       49       823811         21       823634       Motor       50       9-26679         21       823634       Motor       50       9-26579         22       823168       50       56036       56036         23       823610       Lockwasher #10       50       9-26679         23       57D551210       Lockwasher #10       50       9-26679         23       810041       *Screw Hex Hd 10-32 x 7/8       53       50       9-26679         25       66052       Indicator Tilt       52 <td>41 50</td> <td>18855</td> <td>Knob-Bolt, Tension</td>	41 50	18855	Knob-Bolt, Tension
15       823816       Knob         16       822016       Screw Hex Washer Hd Ty "T" #10 x 5/8       43       821531         17       815335       Nut Hex Jam 3/8-32       45       824313         17       815335       Nut Hex Jam 3/8-32       45       823791         18       STD551237 * Lockwasher 3/8       46       823791         19       823792       Board, Control       47       823791         20       823801       Cord w/Plug       47       823791         21       8233634       Motor       48       8710571807         21       8233634       Motor       49       823811         22       8233634       Motor       50       928879         23       STD551210       Lockwasher #10       50       928879         23       STD551210       Vasher #10       50       56036         24       66052       Indicator Tilt       53       510315485         25       STD551010 * Washer #10       52       823812       5485         26       813094-1       Screw Hex Hd 10-32 x 7/8       54       823812         26       813094-1       Screw Hex Hd 10-32 x 7/8       54       823812	42 82	1529	Nut, Tension
16       822016       Screw Hex Washer Hd Ty "T" #10 x 5/8       44       821531         17       815335       Nut Hex Jam 3/8-32       45       824313         18       STD551237 * Lockwasher 3/8       45       823791       823791         19       823792       Board, Control       46       823791         20       823801       Cord w/Plug       47       823791         21       823564       Motor       48       871571807         21       8235634       Motor       49       823811         22       823634       Motor       50       928813         23       STD551210       Lockwasher #10       51       823810         23       STD551210       Lockwasher #10       52       66036         24       STD551210       Washer #10       52       66036         25       STD551010       Washer #10       53       STD315485         26       813094-1       Screw Hex Hd 10-32 x 7/8       54       823812         26       813094-1       Screw Hex Hd 10-32 x 7/8       55       824478	43 82	1530	Wedge, Tension
17       815335       Nut Hex Jam 3/8-32       45       824313         18       STD551237* Lockwasher 3/8       46       823789         19       823792       Board, Control       47       823791         20       823801       Cord w/Plug       48       8715571807         20       823534       • Motor       48       8715571807         21       823634       • Motor       49       823811         22       823634       • Motor       50       928879         23       STD551210       Lockwasher #10       50       928879         23       STD551210       Lockwasher #10       50       928879         24       66052       Indicator Tilt       50       928879         25       STD551010 * Washer #10       52       66036       52         26       813094-1       * Screw Hex Hd 10-32 x 7/8       53       823812         26       813094-1       * Screw Hex Hd 10-32 x 7/8       54       823812         26       813094-1       * Screw Hex Hd 10-32 x 7/8       54       823812	"T'#10 x 5/8   44   82	21531	Spring, Tension
18       STD551237 * Lockwasher 3/8       46       823789         19       823792       Board, Control       47       823791         20       823801       Cord w/Plug       47       823791         21       823534       • Motor       48       871551907         21       823534       • Motor       49       823811         22       823634       • Motor       50       9-26879         23       STD551210       Lockwasher #10       50       9-26879         24       66052       Indicator Tilt       50       9-26879         25       STD551210       Vasher #10       52       66036         26       813094-1       * Screw Hex Hd 10-32 x 7/8       53       823812         26       813094-1       * Screw Hex Hd 10-32 x 7/8       54       823812         26       813094-1       * Screw Hex Hd 10-32 x 7/8       54       823812         26       813094-1       * Screw Hex Hd 10-32 x 7/8       54       823812	45 82	24313	Arm, Lower
19         823792         Board, Control         47         823791           20         823801         Cord w/Plug         48         \$TD571807           21         823634         • Motor         48         \$TD571807           21         823634         • Motor         49         823811           22         823168         Screw Hex Washer Hd 10-32 x 3/8 Green         50         9-26879           23         STD551210         Lockwasher #10         50         9-26879         53           24         66052         Indicator Tilt         52         66036         52         66036           24         66052         Indicator Washer #10         52         53         515485         53         515485           25         813094-1         *Screw Hex Hd 10-32 x 7/8         54         823812         54         823812           25         60206         Indicator Tilt         53         8203612         54         823812           25         60206         813094-1         *Screw Hex Hd 10-32 x 7/8         54         823812         54         824478	46 82	23789	Arm, Upper
20         823801         Cord w/Plug         48         STD571807           21         823634         • Motor         49         823811           22         823168         Screw Hex Washer Hd 10-32 x 3/8 Green         50         9-26879           23         STD551210         Lockwasher #10         50         9-26879           24         66052         Indicator Tilt         52         66036           25         813094-1         * Screw Hex Hd 10-32 x 7/8         52         66036           25         813094-1         * Screw Hex Hd 10-32 x 7/8         53         823810           26         813094-1         * Screw Hex Hd 10-32 x 7/8         54         823812           26         813094-1         * Screw Hex Hd 170 "TT 1/4-20 x 1-1/2         55         824478	47 82	23791	Bellows
21         823634         • Motor         49         823811           22         823168         Screw Hex Washer Hd 10-32 x 3/8 Green         50         9-26879           23         STD551210         Lockwasher #10         51         823810           24         66052         Indicator Tilt         52         66036           25         STD551010 * Washer #10         53         823810           26         8130941         * Screw Hex Hd 10-32 x 7/8         53         823812           26         8130941         * Screw Hex Hd 10-32 x 7/8         54         823812           26         8130941         * Screw Hex Hd 10-32 x 7/8         54         823812	48 S1	TD571807	* Pin Roll 3/16 x 9/16
22         823168         Screw Hex Washer Hd 10-32 x 3/8 Green         50         9-26879           23         STD551210         Lockwasher #10         51         823810           24         66052         Indicator Tilt         52         66036           25         STD551010 * Washer #10         52         66036         53         STD315485           26         813094-1         * Screw Hex Hd 10-32 x 7/8         54         823812           26         813094-1         * Screw Hex Hd Ty "T 1/4-20 x 1-1/2         55         824478	49 82	23811	Holder Blade Upper
23         STD551210         Lockwasher #10         51         823810           24         66052         Indicator Tilt         52         66036           25         STD551010 * Washer #10         52         66036         53         STD315485           26         813094-1         * Screw Hex Hd 10-32 x 7/8         54         823812           27         60206         Screw Hex Hd Ty "T' 1/4-20 x 1-1/2         55         824478	32 x 3/8 Green 50 9-3	26879	† Blade
24         66052         Indicator Tilt         52         66036           25         STD551010 * Washer #10         53         STD315485           26         813094-1         * Screw Hex Hd 10-32 x 7/8         54         823812           27         60206         Screw Hex Hd Ty "T' 1/4-20 x 1-1/2         55         824478	51 82	23810	Holder Blade Lower
25         STD551010 * Washer #10         53         STD315485           26         813094-1         * Screw Hex Hd 10-32 x 7/8         54         823812           27         60206         Screw Hex Hd Ty "T" 1/4-20 x 1-1/2         55         824478	52 66	5036	Link (Includes Key #53)
26         813094-1         * Screw Hex Hd 10-32 x 7/8         54         823812           27         60206         Screw Hex Hd Ty "T" 1/4-20 x 1-1/2         55         824478	53 S1	TD315485	* Bearing Ball
7 60206 Screw Hex Hd Ty "T" 1/4-20 x 1-1/2 5 824478	54 82	23812	Hose
	20 x 1-1/2 55 82	24478	Knob Hold-Down
28 823790 Base - SP5837		P5837	Owner's Manual (Not Illustrated)

repair is done by a qualified service technician. Repair service is available at your nearest Sears store. \* Standard hardware item - may be purchased locally

+ Stock item - may be secured through the Hardware department of most Sears Retail Stores.



The model and serial numbers will be found attached to right side of arm housing.

When requesting service or ordering parts, always provide the following information:

Product Type

Model Number

Part Number

Part Description

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.Part No. SP5837Form No. SP5837-2Printed in U.S.A. 7/97