

Save This Manual
For Future Reference

SEARS

owner's
manual

MODEL NO.
113.225705

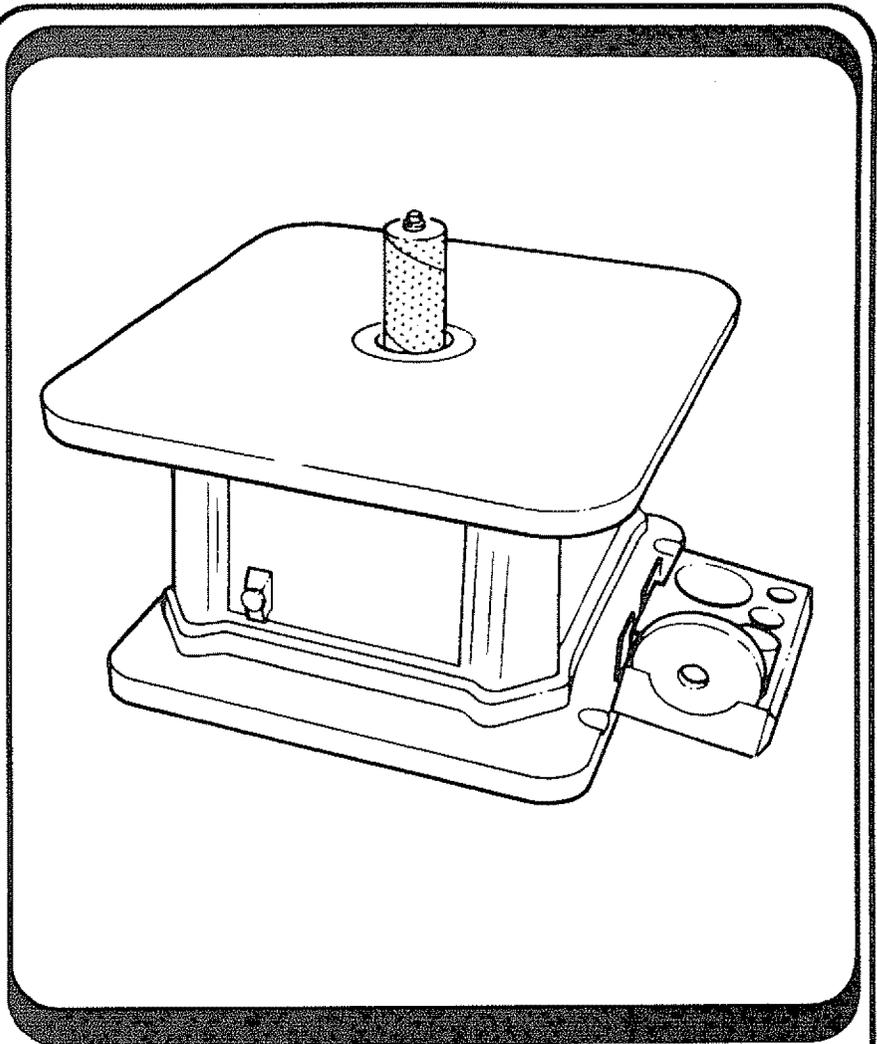
Serial
Number _____

Model and serial numbers
may be found on the back side
of the base.

You should record both model
and serial number in a safe
place for future use.

**FOR YOUR
SAFETY**

**READ ALL
INSTRUCTIONS
CAREFULLY**



CRAFTSMAN®

OSCILLATING SPINDLE SANDER

- assembly
- operating
- repair parts

Sears, Roebuck and Co., Hoffman Estates, IL. 60179 U.S.A.

FULL ONE YEAR WARRANTY ON CRAFTSMAN BENCHTOP TOOLS

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

If this Oscillating Spindle Sander is used for commercial or rental purposes, this 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., D/817 WA Hoffman Estates, IL 60179

Safety Instructions For Oscillating Spindle Sander

Safety is a combination of common sense, staying alert and knowing how your oscillating spindle sander works. Read this manual to understand this sander.

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 seriously injured or killed.

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

Before Using The Sander

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

- Assembly. (See pages 8-11)
- Learn the use and function of the ON-OFF switch. (See page 13)

- Review and understanding of all safety instructions and operating procedures in this manual.
- Review of the maintenance methods for this sander. (See page 18)

Read the following WARNING label found on the front of the sander:

WARNING

1. Read manual before using sander.
2. Wear safety goggles that meet ANSI Z87.1.
3. Wear a dust mask.
4. Keep fingers away from abrasive sleeve when machine is on.
5. Use the proper spacer ring insert for each sleeve to minimize pinch points between sleeve and spacer ring insert.
6. Always support workpiece against the table.
7. Avoid fire, clean out all sawdust and disconnect from any vacuum before sanding metals.

When Installing Or Moving The Sander

Avoid dangerous environment. Use the sander in a dry, indoor place protected from rain. Keep work area well lighted.

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

To avoid injury or death from electrical shock:

- Ground the sander. This sander has an approved 3-conductor cord and a 3-prong grounding type plug. Use only 3-wire, 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 sander.

- Never use this or any power sander for wet sanding. Doing so could cause electrocution, serious injury or worse.

To avoid injury from unexpected sander movement:

- Always unplug the sander before moving it.
- Put the sander on a firm level surface where there is plenty of room for handling and properly supporting the workpiece.
- Attach rubber feet.
- Support the sander so it does not rock.
- Bolt the sander to its work surface. Use the fasteners and method shown in "Assembly." (See page 9.)
- **Never stand on tool.** Serious injury could occur if the tool tips. Do not store anything above or near the tool where anyone might stand on the tool to reach it.

Before Each Use

Inspect your sander. Check for:

- alignment of moving parts,
- binding of moving parts,
- broken or damaged parts,
- loose spindle washer and nut,
- worn or damaged electric cords,
- stable mounting, and
- any other conditions that may affect the way the sander works.

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

Disconnect the sander to avoid injury from accidental starting. Turn switch off, unplug sander and remove the switch key before changing the setup or sanding drum.

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

Know your sander. Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards.

Plan your work. Think through how you will hold and maneuver the workpiece against the sanding drum.

Use the right tool. Don't force tool or attachment to do a job it was not designed to do.

Dress for Safety

- 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 sander for hours at a time.
- Sanding operations are usually dusty. Wear a dust mask along with the safety goggles.
- Do not wear loose clothing, gloves, neckties or jewelry (rings, wrist watches). They can get caught and draw you into moving parts.



- **Wear safety goggles.** Any power sander 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 catalog stores. Glasses or goggles not in compliance with ANSI Z87.1 could seriously hurt you when they break.

Maintain tools with care. Keep the sander clean for maximum and safest performance.

Remove wrenches from tool before turning on.

To avoid injury from jams, slips or thrown pieces:

- **Use only recommended accessories.** Consult this owner's manual for recommended accessories. The use of improper accessories may cause injury. (See page 19).
- **Use the correct spacer ring insert.** The opening between the sanding sleeve and insert must be 1/8th of an inch or less. (See page 11)
- **All sanding drums, washers and nuts are tight.** No parts should have excessive play prior to operating unit.
- **Keep work area clean.** Cluttered work surfaces invite accidents. Floor must be clean and dry for stable footing.

To avoid injury from accidental contact with moving parts:

- Do not layout, assemble, or setup work on the sander while any parts are moving.
- **Avoid accidental starting.** Make sure switch is "OFF" before plugging sander into a power outlet.

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

Plan the way you will hold the workpiece from start to finish. Avoid awkward operations and hand positions where a sudden slip could cause finger or hand to move into a sanding surface.

Don't overreach. Maintain balance and footing.

Keep face and body to one side. Stay out of line with a possible throwback.

Plan your work to avoid THROWBACKS - when the workpiece catches the sanding drum and is torn from your hands:

- Make sure there's no debris between the workpiece and its supports.
- When sanding irregularly shaped workpieces, plan your work support so it will not slip and be pulled from your hands.
- 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 secured to the work surface.

Safety Instructions for Oscillating Spindle Sander (continued)

- **Never** use another person as a substitute for a table extension, or as additional support for a workpiece that is longer or wider than the basic sander table, or to help feed, support or pull the workpiece.
- Clear everything except the workpiece and related support devices off the table before turning the sander on.
- Always feed workpiece from right to left against the

- direction the drum sleeve is rotating.
- Do not use drums or sanding sleeves which show visual signs of wear such as grooves, tears or rips.

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

When Sander is Running

Before starting your work, watch the sander while it runs. If it makes an unfamiliar noise or vibrates excessively, Stop Immediately. Turn the sander off. Unplug the sander. Do not restart until identifying and correcting the problem.

Never leave tool running unattended.

Before using the sander, make sure the sanding drum turns counterclockwise, when viewed from above.

Keep children away. Keep all visitors a safe distance from the sander and workpiece.

Don't force tool. It will perform better and safer at its designed rate. Press workpiece against the sanding sleeve hard enough to begin sanding without bogging down or binding spindle.

Before freeing any jammed material:

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

Before Leaving The Sander

Turn switch off. Don't leave tool until the unit comes to a complete stop.

Make workshop child-proof. Remove the yellow switch key. Disconnect master switches. Store it away from children and others not qualified to use the tool. Lock the shop.

Precautions To Take When Sanding Metals

When sanding metals, sparks or hot fragments could cause a fire. To avoid this:

1. Disconnect any dust collecting hose from the sander.

2. Remove all traces of wood dust from inside the unit before sanding metals.
3. Remove all traces of metal dust from inside the unit before sanding wood again.

Precautions To Take When Sanding Paint

Sanding of lead based paint is not recommended. It is difficult to control the contaminated dust that could cause lead poisoning.

It is also difficult to identify whether or not a paint contains lead. Therefore, we recommend the following precautions when sanding all paints:

1. Protect your lungs. Wear a dust mask or respirator at all times. Wear only dust masks that are suitable for working in lead paint sanding environments. Ordinary painting masks do not offer this protection.
2. Do not allow children or pregnant women to enter the work area until paint sanding job is complete and work area is clean.
3. To prevent ingesting contaminated paint particles: Do not eat, drink, or smoke in a work area where paint is

being sanded. After sanding paint, wash and clean up before eating, drinking or smoking. Do not leave food, drinks, or tobacco products in the work area where dust can settle on them.

4. Protect the environment when sanding paint. Use a dust collection system if possible. Seal the work area with plastic if necessary. Do not track paint dust outside the work area.
5. Thoroughly clean the work area upon completion of paint sanding project. If project lasts for an extended period of time, clean work area often. Items such as sanding dust, vacuum filter bags, plastic drop cloths, etc. should be placed in a sealed container and disposed of properly. Clean all items exposed to sanding dust.

Motor Specifications and Electrical Requirements

General Electrical Connections

DANGER: To avoid electrocution:

1. Use only identical replacement parts when servicing. Servicing should be performed by a qualified service technician.
 2. 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.

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 15-amp branch circuit. To avoid shock or fire, if power cord is worn or cut, or damaged in any way, have it replaced immediately.

The A-C motor used on this tool is a relay start, having the following specifications: It is wired at the factory for operation on 110-120V AC, 60 Hz. operation.

Rated H.P	1/3	Hertz (Cycles)	60
Voltage	110-120	Phase	Single
Amperes	3.2	RPM	1725
Rotation of Shaft	Counterclockwise		

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.

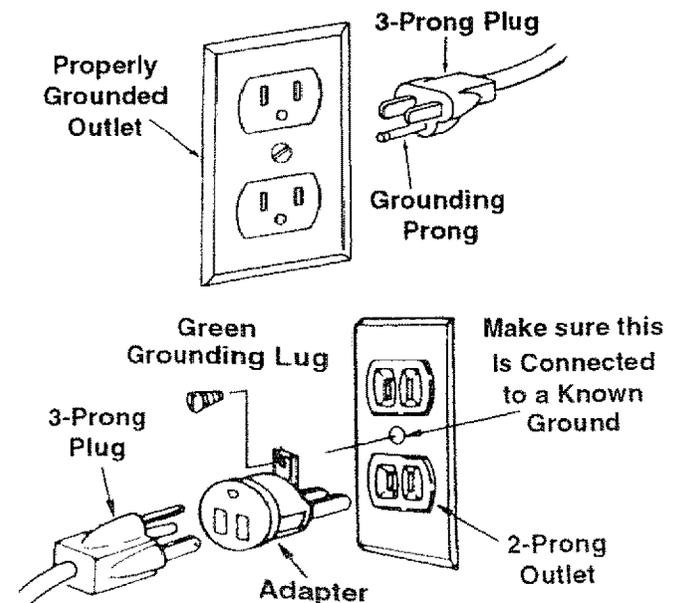
Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

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 could 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 sanding drum.



NOTE: The adapter illustrated is for use only if you have a properly grounded 2-prong outlet.

Motor Specifications and Electrical Requirements (continued)

Motor Safety Protection

IMPORTANT: To avoid motor damage, this motor should be blown out or vacuumed frequently to keep sawdust from interfering with normal motor ventilation.

1. Connect this tool to a power source with the appropriate voltage for your model and a 15-amp branch circuit with a 15-amp time delay fuse or circuit breaker. Using the wrong size fuse can damage the motor.
2. If the motor won't start, turn off the power switch immediately and unplug the tool. Check the spindle to make sure it turns freely. If the spindle is free, try to start the motor again. If the motor still does not start, refer to the "Motor Troubleshooting Chart."
3. If the motor suddenly stalls while sanding, turn off the power switch, unplug the tool, and free the spindle from the workpiece. The motor may now be restarted.

4. Fuses may "blow" or circuit breakers may trip frequently if:

- a. **Motor Is Overloaded**-Overloading can occur if you sand too rapidly or make too many start/stops in a short time.
- b. Line voltages should not be more than 10% above or below the nameplate voltage. For heavy loads, however, the voltage at motor terminals must equal the voltage specified for your model.

5. Most motor troubles may be traced to loose or incorrect connections, overload, low voltage (such as small size wire in the supply circuit) or to overly long supply circuit wire. Always check the connections, the load and supply circuit whenever motor doesn't work well. Check wire sizes and extension cord length with the Wire Size Chart.

Wire Sizes

NOTE: Make sure the proper extension cord is used and is in good condition.

The use of any extension cord will cause 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 with 3-prong grounding type plugs and 3-pole receptacles.

Extension Cord Length	Wire Sizes Required for (A.W.G.)
	110-120V
0-25 Ft.	16
26-50 Ft.	14

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Unpacking and Checking Contents

1. Remove tool from carton by lifting unit.
2. Place the tool on a secure, stationary work surface and look the tool over carefully.

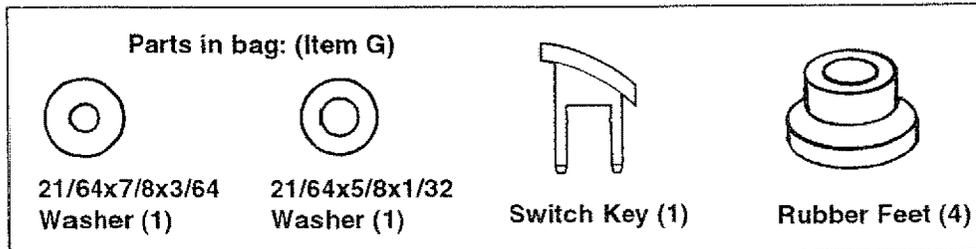
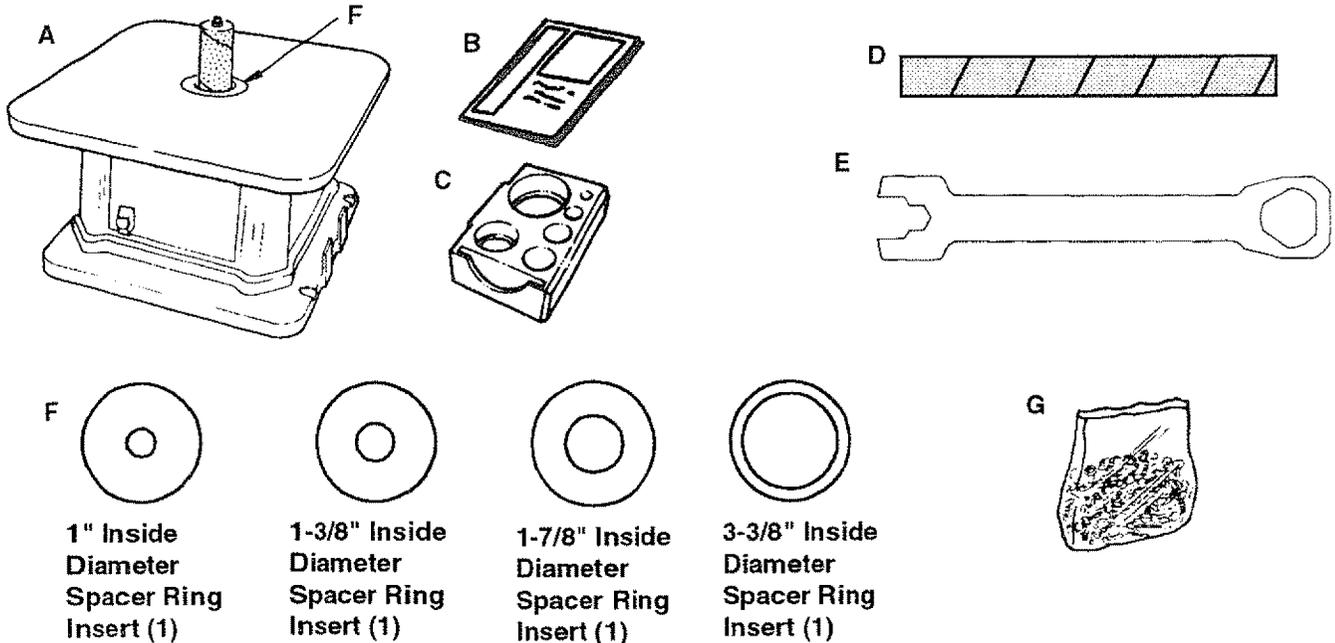
WARNING: For your own safety, never connect plug to power source outlet, or insert switch key until all assembly steps are complete and until you have read and understood the entire owners manual.

WARNING: To avoid injury, if any parts are missing, do not attempt to assemble the spindle sander, plug in the power cord, or turn the switch on until the missing parts are obtained and installed correctly.

List of Loose Parts

A	Oscillating Spindle Sander	1
B	Owners Manual	1
C	Holder Accessory	1
D	Drum Sandpaper 1/2" med.....	1
E	Wrench	1
F	Spacer Ring Inserts	
	1" I.D.....	1
	1-3/8" I.D.	1
	1-7/8" I.D.	1
	2-3/8" I.D. (Installed).....	1
	3-3/8" I.D.	1
G	Bag of Loose Parts	
	Containing the following parts:	
	Rubber feet.....	4
	Washer, Flat 21/64 x 7/8 x 3/64	1
	Washer, Flat 21/64 x 5/8 x 1/32	1
	Switch Key.....	1

Loose Parts



NOTE: The spindle sander is shipped with a 2" I.D. diameter drum, sanding sleeve and a 2-3/8" I.D. spacer ring insert installed.

NOTE: Parts are not shown to actual size.

Assembly

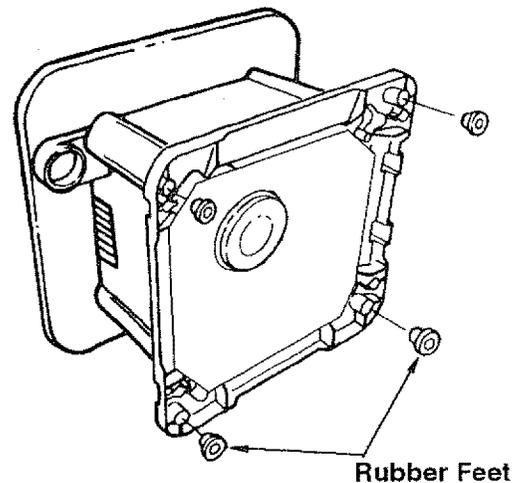
NOTE: The oscillating spindle sander is preassembled except for the attachment of the rubber feet and accessory holder.

Mounting Rubber Feet To Base

Placing the spindle sander directly on the table surface.

1. From the parts bag locate the four rubber feet.
2. Place the sander on its side so the bottom of the base is facing toward the front.
3. Locate the four holes in each corner of the base and place one of the rubber feet in each of these holes.
4. Position sander in the upright position and apply pressure in the downward position to ensure the feet are inserted securely.

CAUTION: To avoid injury from tool movement, supporting surface where spindle sander is mounted should be examined carefully after mounting to insure no movement during use can result. If any tipping or walking is noticed, secure to workbench or supporting surface before operating spindle sander.

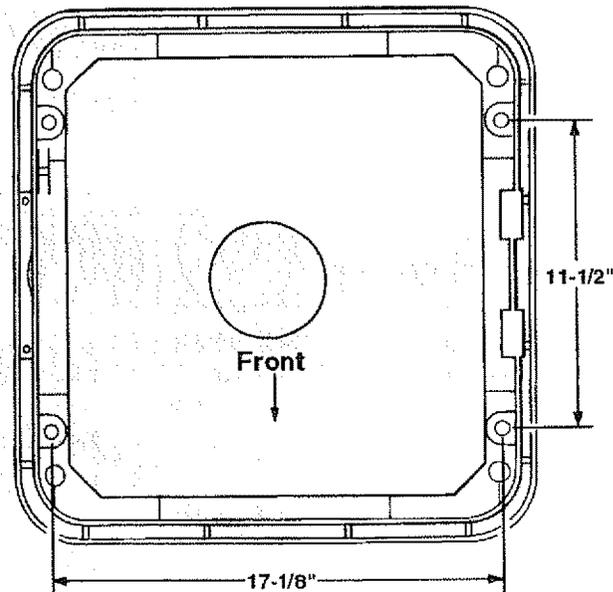


Bolting Spindle Sander To Workbench

If spindle sander is to be used in a permanent location, it should be fastened securely to a firm supporting surface such as a workbench. If mounting to a workbench, holes should be drilled through supporting surface of the workbench using dimensions as shown.

1. The unit should be bolted securely using 1/4" screws, washers and hex nuts (not included). Screw length should be 1-1/2" plus the thickness of the bench top.
2. Locate and mark the holes where sander is to be mounted.
3. Drill (4) 3/8" diameter holes through workbench.
4. Place sander on workbench, aligning holes on base with holes drilled in workbench.
5. Insert (4) 1/4" diameter screws and washers and attach nuts securely.

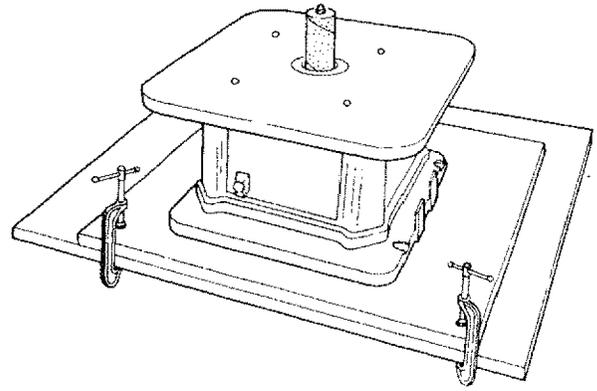
CAUTION: To avoid injury from tool movement, use 1/4" diameter screws and nuts.



Clamping Spindle Sander To Workbench

An alternative method of mounting is to fasten the spindle sander to a mounting board. The board should be sufficient size to avoid tipping while in use. Any good grade of plywood or chipboard with a 3/4" thickness is recommended. (Thinner chipboard can break.)

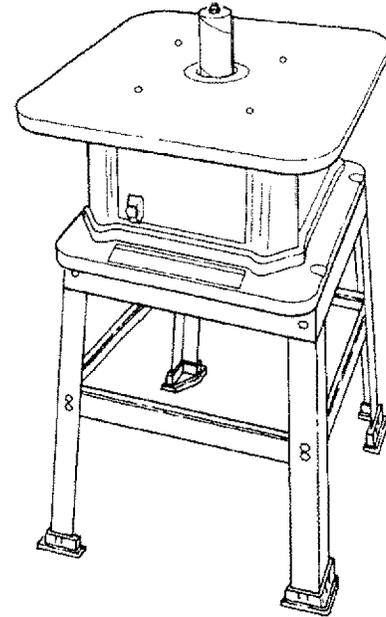
NOTE: For proper stability, holes must be countersunk so screw heads are flush with the surface of supporting board.



Mounting Spindle Sander to Legset

The sander may also be attached to the 9-22243 legset as shown.

NOTE: To assemble legset follow directions provided in legset carton.

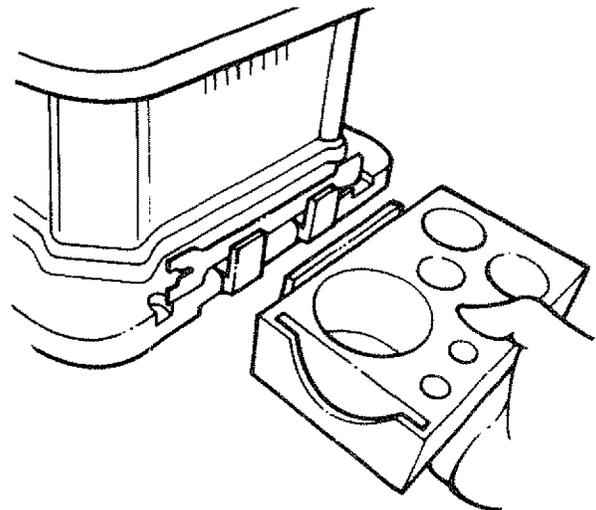


Installing The Accessory Holder To Base

1. Attach holder to the side of the base as shown.
2. Remove the spacer ring inserts, 1/2" diameter sleeve, washers and wrench from the loose parts bag and insert each part in the holder as shown.

NOTE: This holder is designed to be removable to permit attachment to the wall, or workbench as shown.

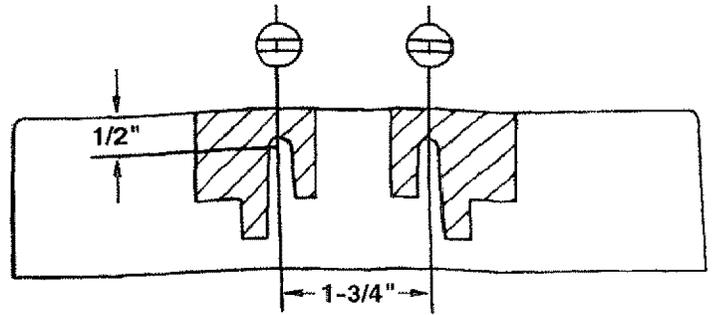
The 7/8" and 5/8" diameter washers will be used with the sanding sleeve sizes identified on page 11. Do not discard.



Assembly (continued)

Attaching the Accessory Holder to Wall

1. Attach (2) #10 x 1" round, pan head screws to wall, using the dimensions in the figure. Screw them in until there is a 1/16" gap between the screws and the wall. If securing to drywall or plaster, toggle bolts will be required to adequately support the holder.
2. Slide the slots in the back of the accessory holder over the screw heads. If the holder is not snug against the wall, adjust the screws as necessary.



Changing Sleeves and Drums

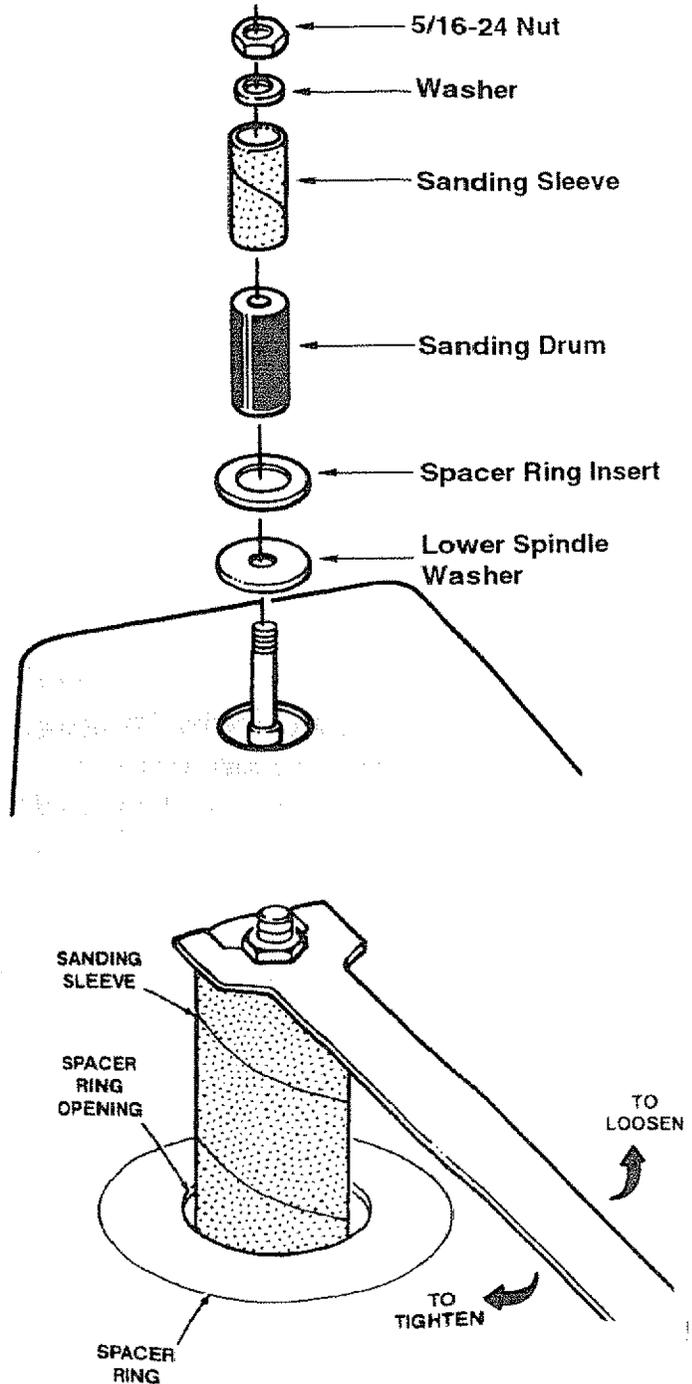
Removal and installation of sander sleeves and drums.

NOTE: The spindle sander is shipped with a 2" diameter drum, sanding sleeve, and a 2-3/8" diameter spacer ring insert installed.

WARNING: To avoid injury from accidental starting, always turn switch "OFF" and remove switch key before removing or replacing the spacer ring inserts, sleeves and drums.

Changing and installing sanding sleeves larger than 1/2" diameter.

1. Hand support sleeve and rubber drum on spindle while loosening the 5/16-24" hex nut using the wrench supplied as shown.
2. Remove the hex nut, upper spindle washer, sanding sleeve, spacer ring insert, and rubber sleeve.
3. Remove the lower spindle washer and clean sawdust from around the spindle.
NOTE: This cleaning is highly recommended whenever a wet/dry vac is not connected to the dust collection port and used with sander. A dust buildup may cause the oscillating motion to stop when the sawdust port is blocked.
4. Slide the lower spindle washer onto the spindle (grooved side down). The lower spindle washer is used with all drums and sleeves.
5. Position spacer ring insert in the table recess. (See recommended spacer ring insert selection area from table on page 11).
6. Place desired sanding sleeve on correct drum and slide them on the spindle. **NOTE:** If the drum is difficult to slide over the spindle, apply talcum powder to the spindle.
7. Install the correct upper spindle washer and 5/16-24" nut and tighten the hex nut with wrench while grasping the sleeve. **Do not overtighten.**
8. Remove the wrench and return it to the storage area on the holder.
9. Plug line cord in the power source and install the key.



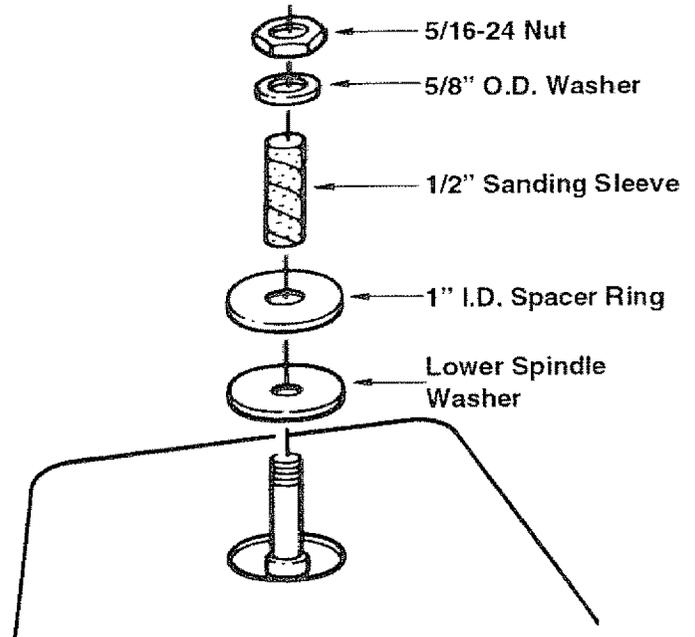
WARNING: To avoid injury from accidental starting, always turn switch "OFF", unplug the sander and remove switch key before removing or replacing the spacer ring inserts, sleeves and drums.

Changing and installing sanding sleeves for the 1/2" diameter sanding drum:

1. Hand support sleeve and rubber drum on the spindle and loosen 5/16-24" hex nut using the wrench supplied as shown.
2. Remove the hex nut, upper spindle washer, sanding sleeve, spacer ring insert, and rubber sleeve.
3. Remove the lower spindle washer and clean sawdust from around the sawdust port.

NOTE: This cleaning is highly recommended whenever a wet/dry vac is not connected to the dust collection port and used with sander. A dust buildup may cause the oscillating motion to stop when the sawdust port is blocked.

4. Slide the lower spindle washer onto the shaft (grooved side down). The lower spindle washer is used with all drums and sleeves.
5. Position 1" opening diameter spacer ring insert in the table recess.
6. Locate 1/2" sanding sleeve and slide it on the spindle. **(No drum is used.)**
7. Install the upper spindle washer and 5/16-24" hex nut and tighten the hex nut with wrench while holding the sleeve. **Do not overtighten.**
8. Remove the wrench and return it to the storage area on the holder.
9. Plug the line cord in the power source and install the key.



Selection Of Spacer Ring Inserts And Upper Spindle Washers

WARNING: Using the wrong spacer ring insert may permit small pieces of wood or finger tips to become wedged between the abrasive surface and the metal ring.

**Sanding Sleeve
Outside Diameter**

- 1/2 Inch
- 3/4 Inch
- 1 Inch
- 1-1/2 Inch
- 2 Inch
- 3 Inch

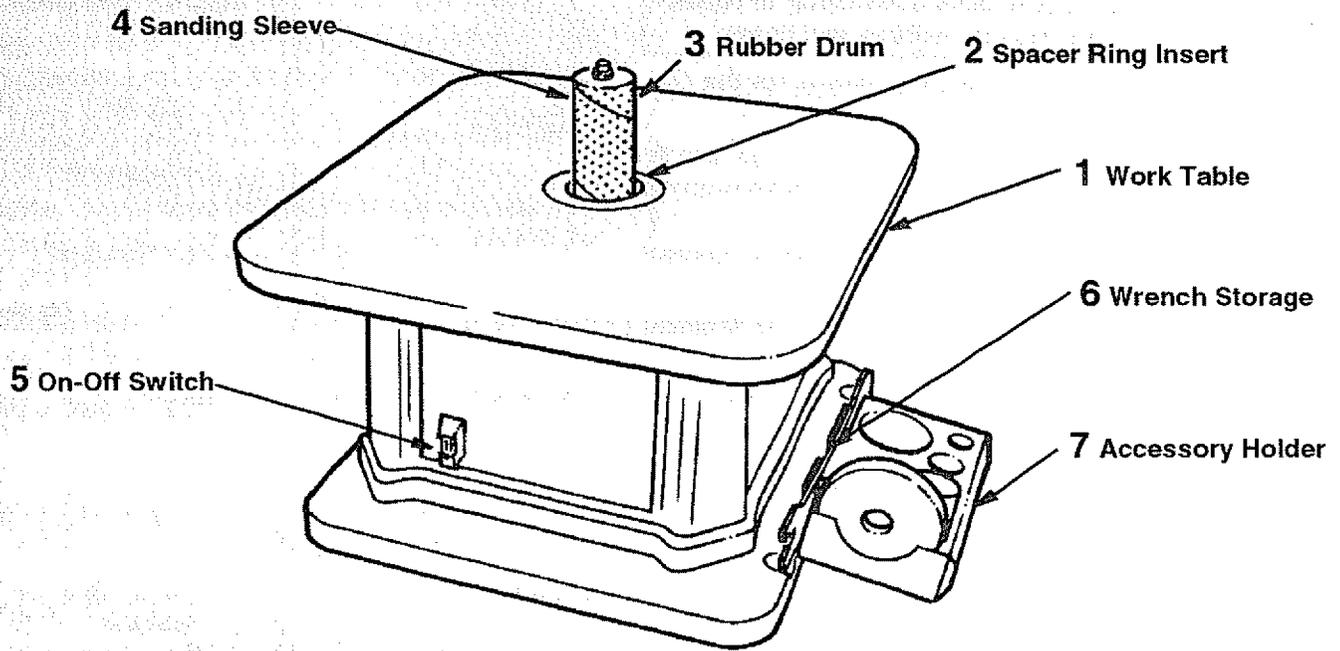
**Spacer Ring Insert
Opening Inside Diameter**

- 1 Inch
- 1 Inch
- 1-3/8 Inch
- 1-7/8 Inch
- 2-3/8 Inch
- 3-3/8 Inch

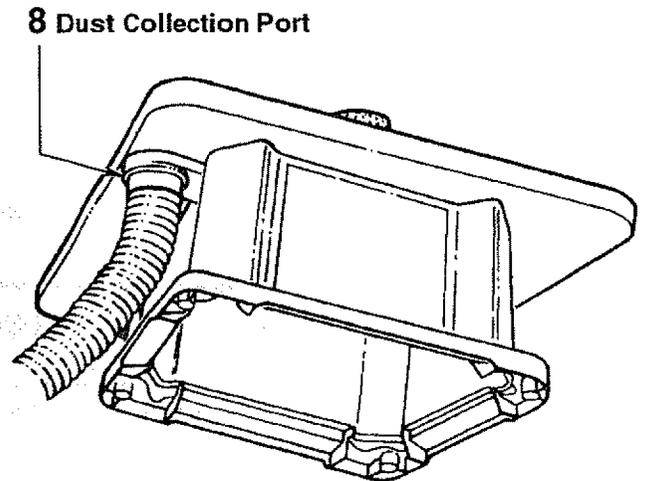
Upper Spindle Washer Size

- 5/8 Inch Outside Diameter
- 5/8 Inch Outside Diameter
- 7/8 Inch Outside Diameter
- 7/8 Inch Outside Diameter
- 1-3/4 Inch Outside Diameter
- 1-3/4 Inch Outside Diameter

Getting to Know Your Spindle Sander



1. **Work Table.** Supports the workpiece.
2. **Spacer Ring Insert.** Permits a variety of abrasive diameters to be used on various curve sizes.
3. **Drum.** Rubber support for the abrasive sleeve. **NOTE:** Not required for 1/2" diameter sleeve.
4. **Sanding Sleeve.** Removes material from the wood.
5. **On-Off switch.**
6. **Wrench Storage.** Location of wrench when not in use.
7. **Accessory Holder.** Storage capability for drums, sleeves, spacer ring inserts and extra washers.
8. **Dust Collection Port.** 2-1/2" opening for wet/dry vac hookup.



On-Off Switch

The On-Off switch has a locking feature. **This Feature Is Intended To Help Prevent Unauthorized And Possible Hazardous Use By Children And Others.**

1. To turn sander "ON" insert key into switch.

NOTE: Key is made of yellow plastic, located in loose parts bag.

2. Insert finger under switch lever and **Pull** end of switch out.

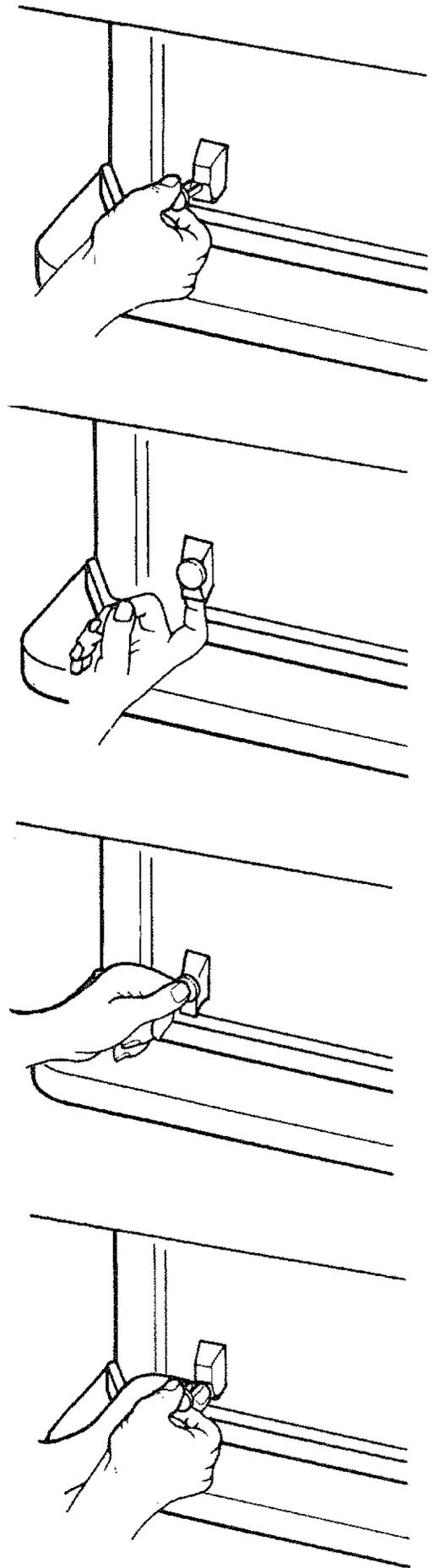
3. To turn sander "OFF". **Push** lever in.

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

4. To lock switch in "OFF" position, hold switch "IN" with one hand. **Remove** key with other hand.

WARNING: For your own safety, always lock the switch "OFF" when sander is not in use. Remove key and keep it in a safe place. Also, in the event of a power failure (all of your lights go out) turn switch off, remove the key and store it remote from spindle sander.

CAUTION: Before turning switch on, make sure the drum and sleeve is properly installed.



Safety Instructions for Oscillating Spindle Sander

Before Using The Sander

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

- Assembly. (See pages 8-11)

- Learn the use and function of the ON-OFF switch. (See page 13)
- Review and understanding of all safety instructions and operating procedures in this manual.
- Review of the maintenance methods for this sander. (See page 18)

When Installing Or Moving The Sander

Avoid dangerous environment. Use the sander in a dry, indoor place protected from rain. Keep work area well lighted.

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

To avoid injury or death from electrical shock:

- Ground the sander. This sander has an approved 3-conductor cord and a 3-prong grounding type plug. Use only 3-wire, 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 sander.
- Never use this or any power sander for wet sanding.

Doing so could cause electrocution, serious injury or worse.

To avoid injury from unexpected sander movement:

- Always unplug the sander before moving it.
- Put the sander on a firm level surface where there is plenty of room for handling and properly supporting the workpiece.
- Attach rubber feet.
- Support the sander so it does not rock.
- Bolt the sander to its work surface. Use the fasteners and method shown in "Assembly." (page 9)
- **Never stand on tool.** Serious injury could occur if the tool tips. Do not store anything above or near the tool where anyone might stand on the tool to reach them.

Before Each Use

Inspect your sander. Check for:

- alignment of moving parts,
- binding of moving parts,
- broken or damaged parts,
- loose spindle washer and nut,
- worn or damaged electric cords,
- stable mounting, and
- any other conditions that may affect the way the sander works.

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

Disconnect the sander to avoid injury from accidental starting. Turn switch off, unplug sander and remove the switch key before changing the setup or sanding drum.

Maintain tools with care. Keep the sander clean for maximum and safest performance.

Remove wrenches from tool before turning on.

To avoid injury from jams, slips or thrown pieces:

- **Use only recommended accessories.** Consult this owner's manual for recommended accessories. The use of improper accessories may cause injury. (See page 19).
- **Use the correct spacer ring insert.** The opening between the sanding sleeve and insert must be 1/8 of an inch or less. (See page 11)
- **All sanding drums, washers and nuts are tight.** No parts should have excessive play prior to operating unit.
- **Keep work area clean.** Cluttered work surfaces invite accidents. Floor must be clean and dry for stable footing.

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

Know your sander. Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards.

Plan your work. Think through how you will hold and maneuver the workpiece against the sanding drum.

Use the right tool. Don't force tool or attachment to do a job it was not designed to do.

To avoid injury from accidental contact with moving parts:

- Do not layout, assemble, or setup work on the sander while any parts are moving.
- **Avoid accidental starting.** Make sure switch is "OFF" before plugging sander into a power outlet.

Dress for Safety

- 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 sander for hours at a time.
- Sanding operations are usually dusty. Wear a dust mask along with the safety goggles.
- Do not wear loose clothing, gloves, neckties or jewelry (rings, wrist watches). They can get caught and draw you into moving parts.



- **Wear safety goggles.** Any power sander 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 catalog stores. Glasses or goggles not in compliance with ANSI Z87.1 could seriously hurt you when they break.

Inspect your workpiece make sure there are no nails or foreign objects in the part of the workpiece to be sanded.

Plan the way you will hold the workpiece from start to finish. Avoid awkward operations and hand positions where a sudden slip could cause finger or hand to move into a sanding surface.

When Sander is Running

Before starting your work, watch the sander while it runs. If it makes an unfamiliar noise or vibrates excessively, Stop Immediately. Turn the sander off. Unplug the sander. Do not restart until identifying and correcting the problem.

Never leave tool running unattended.

Before using the sander, make sure the sanding drum turns counterclockwise, when viewed from above.

Keep children away. Keep all visitors a safe distance from the sander and workpiece.

Before Leaving The Sander

Turn switch off. Don't leave tool until the unit comes to a complete stop.

Don't overreach. Maintain balance and footing.

Keep face and body to one side. Stay out of line with a possible throwback.

Plan your work to avoid THROWBACKS - when the workpiece catches the sanding drum and is torn from your hands:

- Make sure there's no debris between the workpiece and its supports.
- When sanding irregularly shaped workpieces, plan your work support so it will not slip and be pulled from your hands.
- 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 secured to the work surface.
- **Never** use another person as a substitute for a table extension, or as additional support for a workpiece that is longer or wider than the basic sander table, or to help feed, support or pull the workpiece.
- Clear everything except the workpiece and related support devices off the table before turning the sander on.
- Always feed workpiece from right to left against the direction the drum sleeve is rotating.
- Do not use drums or sanding sleeves which show visual signs of wear such as grooves, tears or rips.

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

Don't force tool. It will perform better and safer at its designed rate. Press workpiece against the sanding sleeve hard enough to begin sanding without bogging down or binding spindle.

Before freeing any jammed material:

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

Make workshop child-proof. Remove the yellow switch key. Disconnect master switches. Store it away from children and others not qualified to use the tool. Lock the shop.

Precautions To Take When Sanding Metals

When sanding metals, sparks or hot fragments could cause a fire. To avoid this:

1. Disconnect any dust collecting hose from the sander.
2. Remove all traces of wood dust from inside the unit before sanding metals.
3. Remove all traces of metal dust from inside the unit before sanding wood again.

Precautions To Take When Sanding Paint

Sanding of lead based paint is not recommended. It is difficult to control the contaminated dust that could cause lead poisoning.

It is also difficult to identify whether or not a paint contains lead. Therefore, we recommend the following precautions when sanding **all** paints:

1. Protect your lungs. Wear a dust mask or respirator at all times. Wear only dust masks that are suitable for working in lead paint sanding environments. Ordinary painting masks do not offer this protection.
2. Do not allow children or pregnant women to enter the work area until paint sanding job is complete and work area is clean.
3. To prevent ingesting contaminated paint particles: Do not eat, drink, or smoke in a work area where paint is being sanded. After sanding paint, wash and clean up before eating, drinking or smoking. Do not leave food, drinks, or tobacco products in the work area where dust can settle on them.
4. Protect the environment when sanding paint. Use a dust collection system if possible. Seal the work area with plastic if necessary. Do not track paint dust outside the work area.
5. Thoroughly clean the work area upon completion of paint sanding project. If project lasts for an extended period of time, clean work area often. Items such as sanding dust, vacuum filter bags, plastic drop cloths, etc. should be placed in a sealed container and disposed of properly. Clean all items exposed to sanding dust.

Basic Sanding Operation

Sanding Sleeve Selection

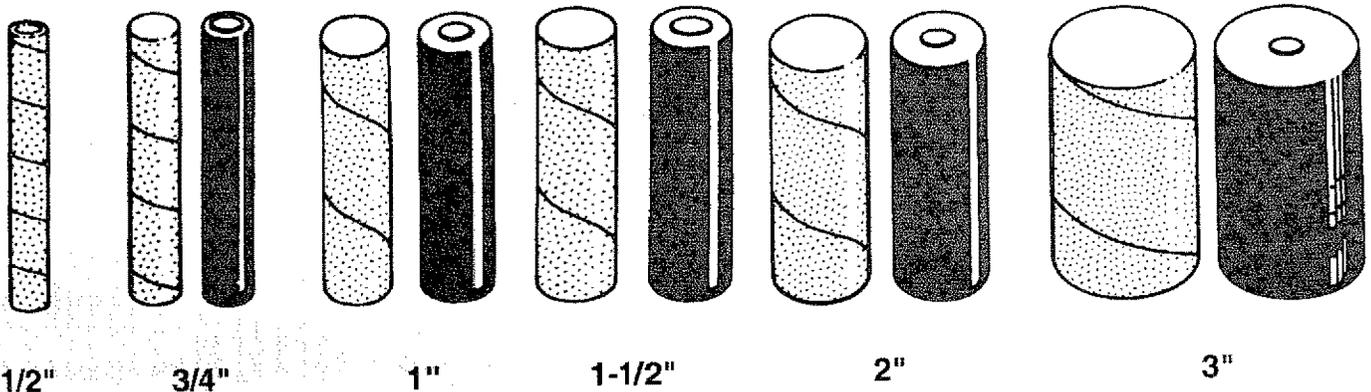
Selecting the correct size diameter, correct size grit, and correct type sanding sleeve is an extremely important step in achieving a high quality sanded finish. Aluminum oxide, silicon carbide, and other synthetic abrasives are best for power sanding. Natural abrasives, such as flint and garnet, are too soft for economical use in power sanding.

In general, coarse grit will remove the most material and finer grit will produce the best finish in all sanding operations. The condition of the surface to be sanded will determine which grit will do the job. If the surface is rough, start with a coarse grit and sand until the surface is uniform. Medium grit may then be used to remove scratches left by the coarser grit and finer grit used for finishing of the surface. Always continue sanding with each grit until surface is uniform.

NOTE: Do Not use sander without a sanding sleeve. Doing so will damage the rubber drum.

Select and install the desired sanding sleeve for your particular application. See optional sleeves and drums. Sanding sleeves from 1/2" to 3" can be used with this sander. Choose one that is close in size to the workpiece you are sanding. Also install the appropriate spacer ring insert (page 11).

WARNING: Failure to use the correct size spacer ring insert with its matching sanding sleeve could result in fingers being pinched or the workpiece being pulled down between the spacer ring insert and sanding sleeve.



WARNING: Always wear safety goggles (not glasses) that comply with ANSI Z87.1 when using your sander. Failure to do so could result in dust, shavings, loose particles, or foreign objects being thrown in your eyes resulting in possible serious injury. If the operation is dusty, also wear a face or dust mask.

NOTE: This spindle sander is a unique design. Although it is generally quieter than most power tools, some noise is normal. When it is operating normally, you will hear a gear-drive noise. As the gears wear, they may get louder. This is normal and does not affect the performance of the sander.

Sanding

Insert the switch key and turn sander on. Let the motor build to its full speed, then gradually feed workpiece against the rotation of sanding sleeve. **DO NOT** let the workpiece contact sanding sleeve before turning on sander and allowing it to develop full speed.

Do Not Force. Exercise Caution! You will become familiar with the sander's features with practice and use. If at all possible, always sand with a scrap piece of the same wood, beforehand.

Always Remain Alert! Do Not operate sander when fatigued, or under the influence of alcohol or drugs.

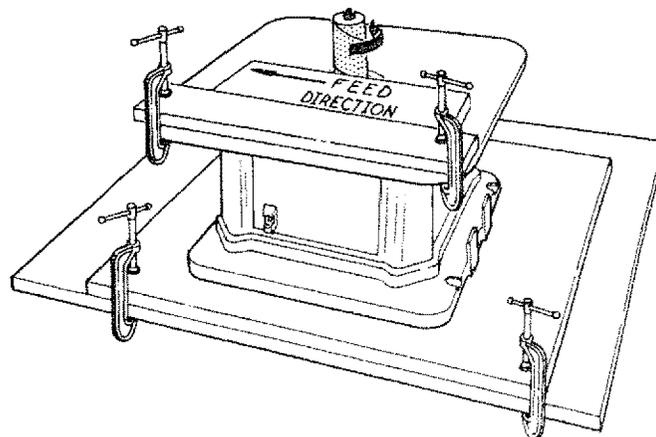
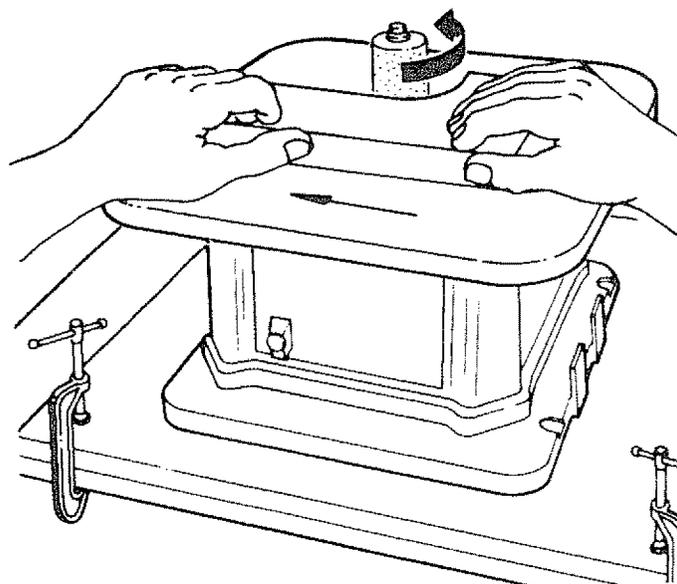
Feed Direction

When sanding, the sanding sleeve rotates counterclockwise. Therefore, you should feed the workpiece against the sanding sleeve from right to left as shown. When fed from right to left, the rotation of the sanding sleeve sands against the workpiece. If fed in the opposite direction, the rotation forces of the spinning sanding sleeve will tend to throw or bounce the workpiece away from the sanding sleeve. This could cause loss of control of workpiece or injury.

Edge Sanding with Auxiliary Fence

A straight edge can be sanded more accurately by using an auxiliary fence. To attach a fence, turn the sander OFF and clamp a suitable wood piece securely to the table. Adjust the gap between the fence and sanding drum to the desired width. Stand clear of the path of the workpiece and feed it in slowly from right to left (against the direction of rotation of the spindle).

CAUTION: Do not feed the workpiece from left to right. Feeding the workpiece from left to right (with the rotation of the drum) will cause the sanding sleeve to grab the workpiece and throw it. Do not stand, or permit anyone else to stand in line with the auxiliary fence.



Basic Sanding Operation (continued)

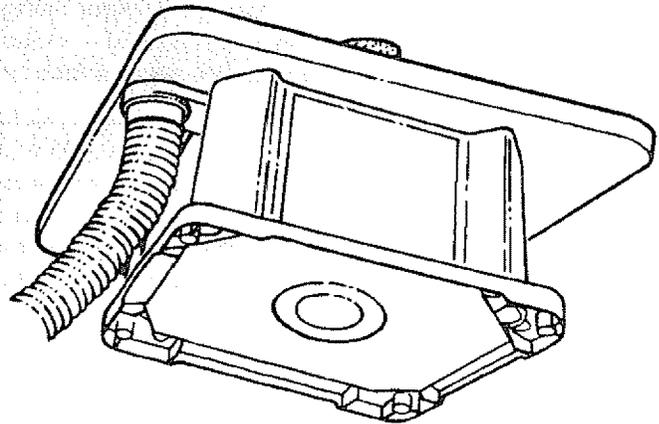
Dust Collection Capability

A standard 2-1/2" dust exhaust port has been provided to make dustless sanding possible. It is located under the table top on the left side of your sander as shown. The pickup adapter end of a vacuum hose fits inside the dust exhaust port with a wedge fit.

Even with a dust collection system, it is necessary to periodically clean sanding dust from the spacer ring insert area and the top surface of the table. After extended use, sanding dust builds up under the spacer ring insert and forces its way into the spacer ring insert nest. Sanding dust build up in this area may cause the spacer ring insert surface to rise and be above the table surface.

Transporting Sander

When using your sander in a portable application, it is acceptable to lift and carry sander by the table top. Be careful when transporting to avoid dislodging accessory holder, spacer ring inserts, wrench, and upper spindle washers from their respective storage areas. Also be careful not to lose any parts when transporting.



Maintenance

WARNING: For your own safety, turn switch "OFF" and remove plug from power source outlet before adjusting or maintaining your spindle sander.

WARNING: To avoid electrocution or fire, any repairs to electrical systems should be done only by qualified service technicians. Unit must be reassembled exactly to factory specifications.

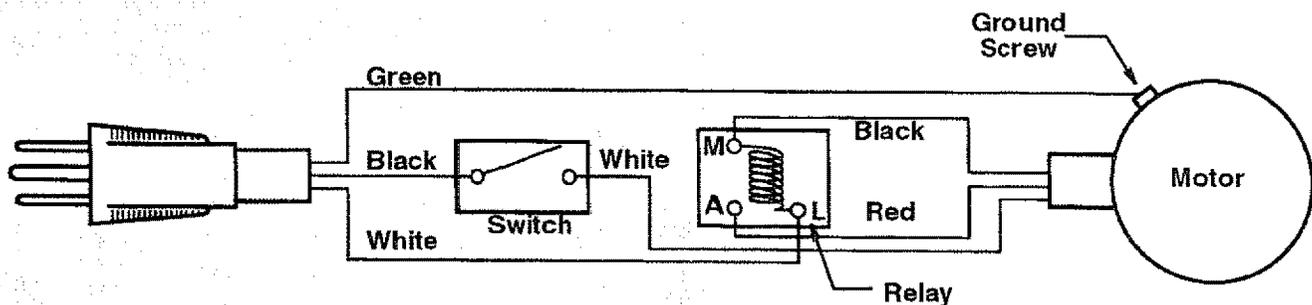
If power cord is worn or cut, or damaged in anyway, have it replaced immediately.

Frequently blow out or vacuum out any dust that may accumulate inside the motor.

Lubrication

The motor sleeve bearings in tool are self-lubricating. They require no further lubrication.

Wiring Diagram



Sears Recommends The Following Accessories ---

Description

Catalog No.

Legset 9-22243

Sears may recommend other accessories or combinations of accessories not listed in the manual. See your nearest Sears store or consult a Sears Power & Hand Tool Catalog for other accessories.

WARNING: Do not use any accessory unless you have received and read complete instructions for its use.

Rubber Spindles	
Stock No.	Size
28118	3/4" x 4-1/2"
28119	1" x 4-1/2"
28120	1-1/2" x 4-1/2"
28121	2" x 4-1/2"
28122	3" x 4-1/2"

Sanding Sleeves		
Stock No.	Size	Grit
28050	1/2" x 4-1/2"	Coarse
28051	12" x 4-1/2"	Medium
28052	1/2 x 4-1/2"	Fine
28053	3/4 x 4-1/2"	Coarse
28054	3/4 x 4-1/2"	Medium
28055	3/4" x 4-1/2"	Fine
28056	1" x 4-1/2"	Coarse
28057	1" x 4-1/2"	Medium
28058	1" x 4-1/2"	Fine
28059	1-1/2" x 4-1/2"	Coarse
28110	1-1/2" x 4-1/2"	Medium
28111	1-1/2" x 4-1/2"	Fine
28112	2" x 4-1/2"	Coarse
28113	2" x 4-1/2"	Medium
28114	2" x 4-1/2"	Fine
28115	3" x 4-1/2"	Coarse
28116	3" x 4-1/2"	Medium
28117	3" x 4-1/2"	Fine

Troubleshooting

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

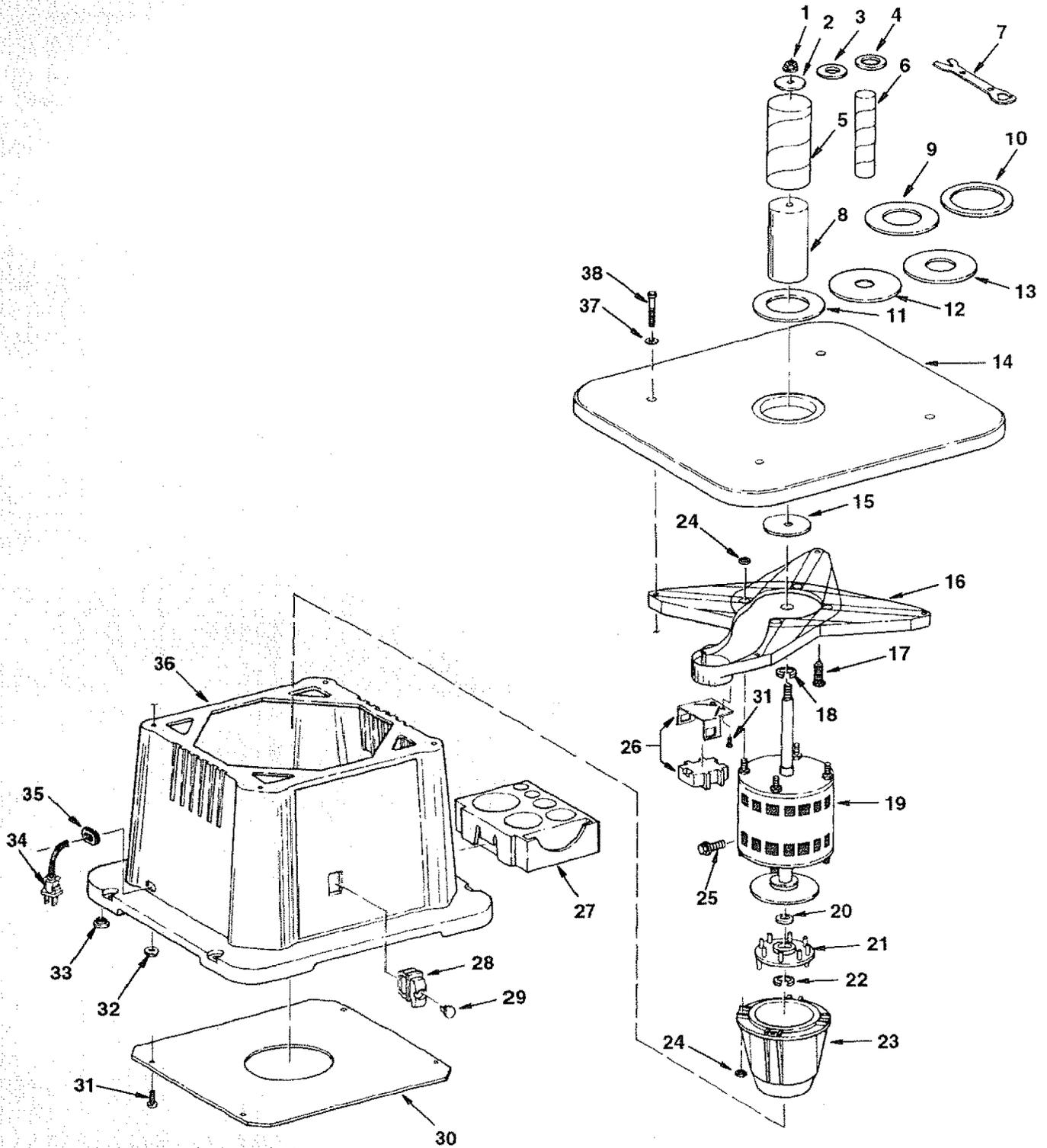
TROUBLE	PROBABLE CAUSE	REMEDY
Excessive noise NOTE: The sander will make some noise when it is operating normally	1. Motor for gearbox.	1. Consult Sears Service, any attempt to repair this motor or gearbox may create a hazard unless repair is done by a qualified Sears service technician.
Motor fails to develop full power, starts slowly, or fails to come up to full speed. NOTE: Low voltage	1. Circuit overloaded with lights, appliances and other motor. 2. General overloading of power company facilities. 3. Motor relay not operating.	1. Do not use sander on heavily loaded circuits 2. Request a voltage check by qualified electrician 3. Have relay replaced. Consult Sears Service. Any attempt to repair this relay may create a hazard unless repair is done by a qualified Sears service technician.
Motor overheats	1. Motor overloaded.	1. Reduce pressure on workpiece.
Motor stalls (resulting in blown fuses or circuit breakers)	1. Motor relay not operating. 2. Voltage too low. Circuit overloaded or general overloading of power company facilities. 3. Incorrect fuses or circuit breakers in power line.	1. Have relay replaced. Consult Sears Service. Any attempt to repair this relay may create a hazard unless repair is done by a qualified Sears service technician. 2. Request voltage check by qualified electrician 3. Install correct fuse or circuit breaker.
Frequent opening of fuse or circuits breaker	1. Motor overloaded. 2. Incorrect fuses or circuit breaker in power line. 3. Relay not operating.	1. Feed work slower into drum 2. Install correct fuse or circuit breakers. 3. Have relay replaced. Consult Sears Service. Any attempt to repair this relay may create a hazard unless repair is done by a qualified Sears service technician.
Motor will not run	1. Damaged On-Off Switch/Cord. 2. Burned out motor. 3. No power to motor. 4. Low voltage.	1. Replace damaged parts before using sander. 2. Consult Sears Service. Any attempt to repair this motor may create a hazard unless repair is done by a qualified Sears service technician.
Sanding drum slips or slows down easily	1. Applying too much pressure to workpiece. 2. Lower drum washer not in place. 3. Incorrect or missing upper drum washer. 4. Spindle nut too loose.	1. Ease up on workpiece. 2. Install lower drum washer. 3. Install correct upper drum washer. 4. Tighten spindle nut.
Wood burns while sanding	1. Sanding drum is glazed with sap.	1. Replace sanding drum.
Sandpaper doesn't remove material	1. Sanding drum is compacted with sawdust.	1. Replace sanding drum.
Spindle doesn't go through full 3/4" travel	1. Sawdust is compacted under lower drum washer. 2. Damaged gearbox.	1. Vacuum sawdust from area lower drum washer. Ensure that lower drum washer is installed with grooved side down. 2. Consult Sears Service. Any attempt to repair this gearbox may create a hazard unless repair is done by a qualified Sears service technician.

Notes

Repair Parts

Parts List For Craftsman Oscillating Spindle Sander Model 113.225705

Figure 1



Parts List For Craftsman Oscillating Spindle Sander

Model 113.225705

Always order by Part Number—Not by Key Number

Figure 1

Key No.	Part No.	Description
1	STD541131	* Nut, Hex 5/16-24
2	STD551062	* Washer 5/8 x 1-3/4 x 1/8
3	805553-24	Washer 11/32 x 7/8 x 3/64
4	805553-2	Washer 21/64 x 5/8 x 1/32
5	822297-14	Drum Sandpaper 2" Med
6	822297-10	Drum Sandpaper 1/2" Med
7	822384	Wrench
8	822304-3	Drum, Sanding 2"
9	822305-2	Plate, Spacer 1.875 I.D.
10	822305-4	Plate, Spacer 3.375 I.D.
11	822305-3	Plate, Spacer 2.375 I.D.
12	822305	Plate, Spacer 1.000 I.D.
13	822305-1	Plate, Spacer 1.375 I.D.
14	822286	Table
15	822388	Washer Drum Lower
16	822287	Support, Drive Assembly
17	760047	Screw Drywall #6 x 1-1/4
18	STD582050	* Ring Retaining
19	825829	• Drive Asm.
20	STD315485	* Bearing Ball 8mm

Key No.	Part No.	Description
21	824463	Follower Cam
22	STD581031	* Ring Retaining
23	824464	Housing
24	822356	Nut Hex Flange Lock 8-32
25	STD600805	* Scr Hx Hd Wash Ty "T" 8-32x1/2
26	825766	Relay w/Bracket
27	822303	Holder, Accessory
28	822308	Switch Locking
29	9-22255	† Key Switch
30	824003	Enclosure
31	STD611005	* Scr Pan Hd TY "BN" 10 x 1/2
32	816345-1	* Nut Hex Flange 1/4-20
33	819012	Foot
34	824004	Cord w/Plug
35	60361	Strain Relief
36	509298	Base
37	STD551025	* Washer 17/64 x 7/16 x 1/32
38	141594-47	Screw Soc Cap 1/4-20 x 2
—	SP6031	Owners Manual

* Standard Hardware Item - May be purchased locally

† Stock Item - May be secure through the hardware department of most Sears retail stores.

- Any attempt to repair this motor may create a hazard unless repair is done by a qualified service technician. Repair service is available at your nearest Sears Service Center.

SEARS

owner's
manual

MODEL NO.
113.225705

The model number of your Spindle Sander may be found on the back side of the base

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

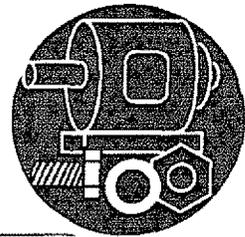
- Product Type
- Model Number
- Part Number
- Part Description

OSCILLATING SPINDLE SANDER

For the repair or replacement parts you need

Call 7 am - 7 pm, 7 days a week

1-800-366-PART
(1-800-366-7278)



For in-home major brand repair service

Call 24 hours a day, 7 days a week

1-800-4-REPAIR
(1-800-473-7247)



For the location of a
Sears Repair Service Center in your area

Call 24 hours a day, 7 days a week

1-800-488-1222



For information on purchasing a Sears
Maintenance Agreement or to inquire
about an existing Agreement

Call 9 am - 5 pm, Monday-Saturday

1-800-827-6655



SEARS
REPAIR SERVICES

America's Repair Specialists

Sears, Roebuck and Co., Hoffman Estates, IL. 60179 U.S.A.