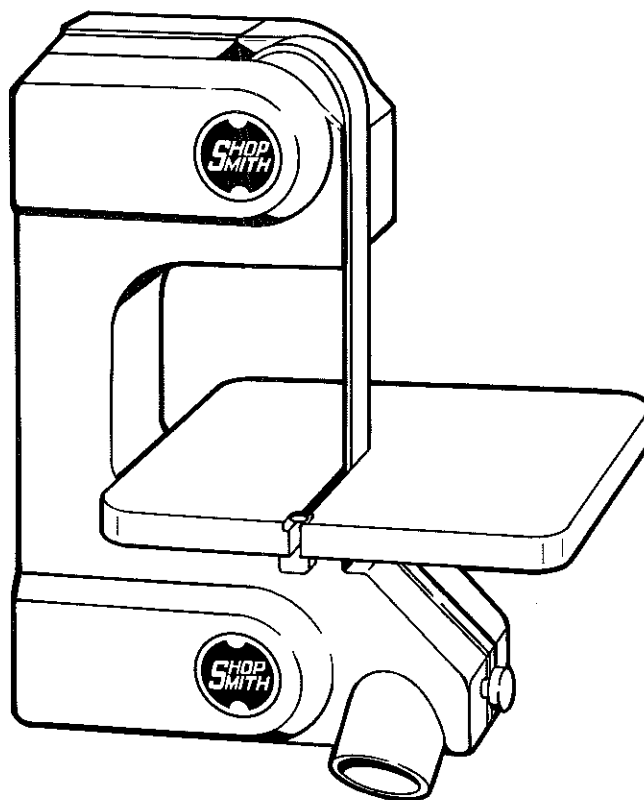




Strip Sander

555309



WARNING

- Read the SAFETY section and complete the SETUP procedures before operating the Shopsmith Strip Sander.
- Mount the Strip Sander on Shopsmith equipment only. Also, use only Shopsmith parts and accessories on your Strip Sander. Mounting the Strip Sander on non-Shopsmith machinery or using non-Shopsmith parts will create a hazardous condition and will void your warranty.

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Introduction

The Shopsmith Strip Sander gives you the capability of doing intricate detail sanding. Whatever your project may be, the strip sander can sand straight, curved, convex or concave surfaces. The strip sander utilizes automatic belt tension to assure you of proper adjustment and has adjustable tracking. In addition, the strip sander can be attached to your Shopsmith Dust Collector when you're working with wood.

We know you are eager to get started using your strip sander, but please take time to read the manual before you begin. Then keep it handy for future reference.

Safety

The Shopsmith Strip Sander has many built-in safety features. But, the effectiveness of these features depends on you. Power tool safety is no more than good common sense.

To protect yourself from injury: READ, UNDERSTAND AND FOLLOW ALL the information in this manual.

The meanings of WARNINGS, CAUTIONS, and NOTES are:

WARNING

A WARNING is given when failure to follow the directions could result in injury, loss of limb, or life.

CAUTION

A CAUTION is given when failure to follow the directions could result in temporary or permanent damage to the equipment.

NOTE

A NOTE is used to highlight an important procedure, practice or condition.

Eye Protection

Always wear eye protection when you use power tools. Use goggles, safety glasses or a face shield to protect your eyes.

- Goggles completely surround and protect your eyes. Many goggles will also fit over regular glasses. Be sure your goggles fit closely, but comfortably.
- Safety glasses don't fog as easily as goggles and can be worn all the time. Regular glasses normally have only impact resistant lenses. They are not safety glasses.
- A face shield protects your entire face, not just your eyes.

Electrical Requirements

Circuit—If the Shopsmith Mark V is the power source, the 1-1/8 hp motor develops 1-1/2 hp and pulls 13-14 amps. The circuit should be rated at least 15 amps and fused with a 15 amp time delay fuse. The motor runs on 115 volts, 60 hz. Some areas of the world require 230 volts, 60 hz. If another power source is used, follow the recommendations in its owners manual.

Grounding—The circuit you use should be properly grounded to protect you from electrical shock. The plug has three prongs. The receptacle should have three corresponding holes. Do not modify the plug. If it will not fit the outlet, have the proper outlet installed. If you have a two-hole receptacle, use a temporary adapter. The grounding lug or wire on the adapter **MUST** be connected to a permanent ground such as a grounded outlet box. The temporary adapter should be used **only** until a properly grounded outlet can be installed. (Adapters are not allowed in Canada.)

Extension Cord—If you use an extension cord, be sure it's a three-conductor cord with a grounding plug and receptacle. The wire gauge must be large enough to prevent loss of power and overheating.

Cord Length	Minimum Wire Size
25 ft.	14 AWG
50 ft.	12 AWG
100 ft.	10 AWG

Do not use an extension cord with loose wires or damaged insulation. Also, do not let the connection between the power cord and extension cord lie on a damp or wet surface.

Dust Collection—Whenever you work with wood, connect the hose of your dust collection system to the chute in the strip sander cover.

General Safety Rules for Power Tools

- Read, understand and follow the Owners Manual.
- Ground all tools (unless double insulated).
- Wear proper eye and ear protection. Also, wear a dust mask.
- Keep guards in place and in working order. Most injuries occur on unguarded power tools.
- Remove adjusting keys and wrenches.
- Do not wear loose clothing, ties, gloves, or jewelry. Roll sleeves up above your elbows, wear nonslip footwear, and tuck long hair under a hat.
- Do not operate power tools if you are fatigued, taking medication, or under the influence of alcohol or drugs.
- Do not use power tools in damp, wet or explosive atmospheres.
- Keep work areas well lit, clean, and free from clutter.
- Do not force the tool. It will do the job better and safer at the rate for which it was designed.
- Do not use a tool or accessory to do a job for which it was not designed.
- Feed the workpiece into the cutter against the rotation of the cutter only.
- Repair or replace damaged parts before further use. If a strange noise or vibration develops, turn off and unplug the machine. Correct the problem.
- Use clamps, fixtures, and other devices to hold workpieces when practical.
- Do not overreach. Keep proper footing and balance at all times.
- Turn off the tool and wait until it comes to a complete stop before removing workpieces and scraps.
- Do not try to stop the tool by grabbing the workpiece or any part of the tool. Turn off the tool and let it come to a complete stop by itself.
- Do not leave the tool running unattended. Turn power off. Don't leave tool until it comes to a complete stop.
- Avoid unintentional starting. Make sure the switch is in the "off" position before plugging in or unplugging the tool.
- Turn off and unplug tools before changing accessories and setups, making adjustments, and performing maintenance and repair.
- Do not stand or lean on the tool. You could fall onto the tool or it could tip over injuring you and/or damaging the tool.
- Keep parts and tools sharp, clean and maintained according to the Owners Manual.
- Make workshop childproof. Unplug tools, use padlocks, master switches and remove starter keys.
- Keep children away. All visitors should stay a safe distance from power tools, and wear eye and ear protection.

Safety Rules for the Strip Sander

- Maintain proper adjustment of tracking.
- Never reach close to the belt or underneath the table while the tool is running.
- Use the table for support whenever possible. Careful freehand sanding is possible on the tracking wheel.
- Never attempt to sand an internal area smaller than the belt will allow. Otherwise, the belt will be pulled off the wheels and break.
- When doing internal sanding, never sand against the back of the platen.
- Always use the strip sander with the workpiece held against the downward-motion side of the belt.
- Support long stock with a roller stand.
- Never sand extremely small stock held by hand. Use pliers to hold small items.
- If the belt breaks, turn off the machine and stand away until it stops moving.
- Whenever you mount and operate the strip sander on the Mark V, secure the accessory mount lock, power plant lock and the strip sander eccentric mounting tubes.
- Do not exceed speed setting "K" on the Mark V or 2050 RPM.
- Never turn on the machine with stock pressed against the belt.
- If you hear a ticking sound or other unusual noise, stop the strip sander immediately. A ticking sound often indicates a damaged belt.
- Never attach a dust collection system to the strip sander during grinding operations. Sparks and/or debris could ignite sawdust.
- Mount the strip sander on the Shopsmith Mark V or other Shopsmith mounting system only. Also, use only Shopsmith parts and accessories on your strip sander. Mounting the strip sander on non-Shopsmith machinery, or using non-Shopsmith parts will create a hazardous condition and will void your warranty.

General Information

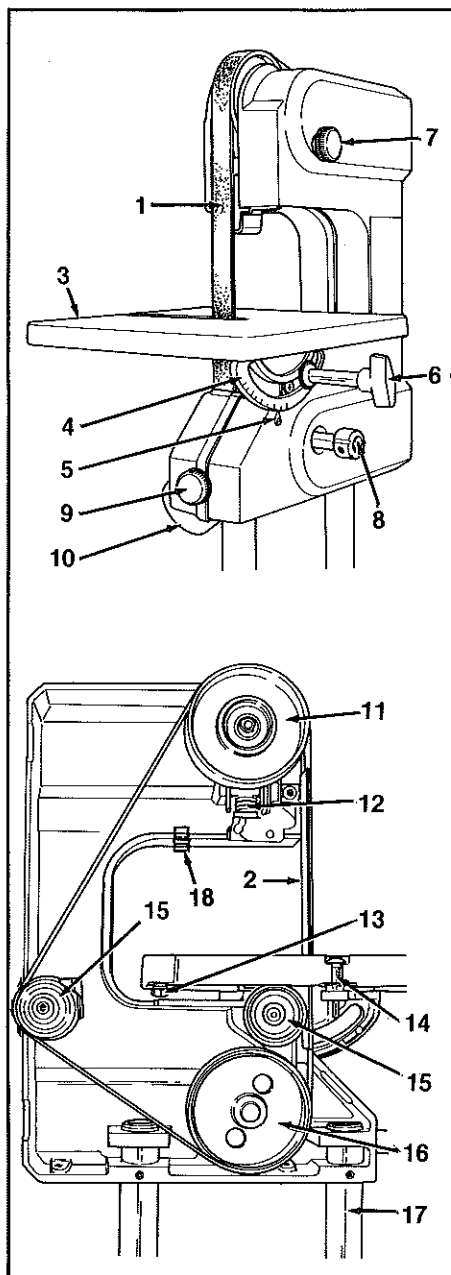
Getting to Know Your Strip Sander

Become familiar with all of the strip sander's functions and parts before you begin to use it.

Terms to Know

The functioning parts of the strip sander are:

1. **Belt**—Sands the workpiece.
2. **Platen**—Provides a firm backup for the belt during sanding operations.
3. **Table**—Supports the work, and tilts "0" to 45° forward.
4. **Trunnion**—Supports the table and guides it through the tilt ranges.
5. **Table Tilt Indicator**—Indicates the table angle.
6. **Table Lock Knob**—Secures the table at the desired angle.
7. **Tracking Knob**—Adjusts tracking of the belt on the platen.
8. **Drive Shaft Hub**—Transfers power to the strip sander.
9. **Cover Lock Knob**—Secures the front cover to the frame.
10. **Dust Chute**—Attaches to your dust collection system.
11. **Tracking Wheel**—Adjusts to keep the belt centered and parallel on the platens.
12. **Tensioning Spring**—Automatically keeps the belt at the proper tension during use.
13. **Table Stop**—Automatically positions the table at the 90° setting.
14. **Table Leveling Clamp**—A bolt and nut that keep the table level during operations.
15. **Idler Wheels**—The two wheels are located as shown for external sanding. For internal sanding, the left wheel is mounted below the tracking wheel.
16. **Drive Wheel**—Transfers power from the drive shaft to the belt.
17. **Eccentric Mounting Tubes**—Mounts the strip sander to the Mark V.
18. **"S" Clip**—Helps secure the cover tightly.



Specifications

- **Capacities**—The strip sander can accommodate stock of any size or shape within these limits: 6" in front of platen (from table level), 3-1/4" thick between the table and the upper part of the housing, and 6-1/4" wide in the throat (back of platen to housing).
- **Belts**—The strip sander uses belts of various grits in 1/2" x 42" and 1" x 42" sizes only.
- **Platens**—The strip sander comes with three platens; 1" flat, 1/2" flat and 1/2" radius curved.
- **Table**—The table surface is 11" x 11". It can be tilted from "0" to 45° forward.
- **Speed**—The Mark V mounted unit operates at speeds between "Slow" (700 RPM) and "K" (2050 RPM).
- **Overall Dimensions and Weight**—the unit is 17" tall, 15" deep and 11" wide. It weighs approx. 15 pounds.

Setting up the Strip Sander

If you are mounting the strip sander on the Mark V, follow steps 1-14. If you are mounting the strip sander on another power source, follow steps 6-14 plus the instructions that come with the power source.

Refer to **General Information** and the **Parts List** to identify parts. The numbers in parentheses are reference numbers of the individual parts as shown in the Parts List on page 11 of this manual.

Tools and Materials Needed:

- Power coupling kit (Mark V only)
- 5/32" Allen wrench
- Medium blade screwdriver
- 1/2" open-end wrench
- Combination square
- Clean rag
- Paste furniture wax

WARNING

Turn off and unplug the Mark V.

1. **Install the mounting tubes.** Loosen the Mark V accessory mount lock and insert the eccentric mounting tubes (52). The long end goes up, the offset shoulder of each tube rests on the power mount and the shoulders point away from the power plant.

2. **Mount the strip sander on the Mark V.** Open the cover (1) and loosen setscrews (40) and set the strip sander onto the tubes (52). Don't tighten the setscrews yet.

3. **Align the hub horizontally with the Mark V's upper auxiliary spindle hub.** Slide the power plant toward the strip sander until the Mark V upper auxiliary spindle hub and the strip sander drive hub are about 1/2" apart. Look down to see if the hubs are aligned horizontally. (See Figure 1.)

If adjustment is needed, move the strip sander forward or backward by rotating the tubes (52) until the hubs align. When the strip sander is properly aligned, the shoulders will both point in

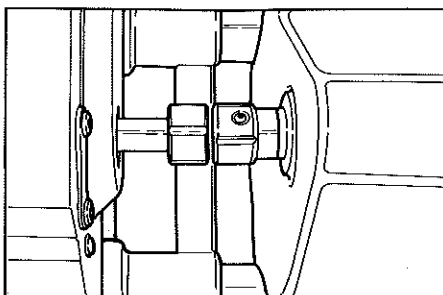


Figure 1. From the top, align the hubs horizontally.

the same direction. Tighten the accessory mount lock.

4. **Align the hubs vertically.** Check the vertical alignment of the hubs. (See Figure 2.) If they're not aligned, raise the strip sander on the tubes until the hubs align. Then tighten the setscrews (40). (See Figure 3.) Once the mounting tubes are locked in the strip sander frame, you can install the strip sander on the Mark V using only the accessory mount lock.

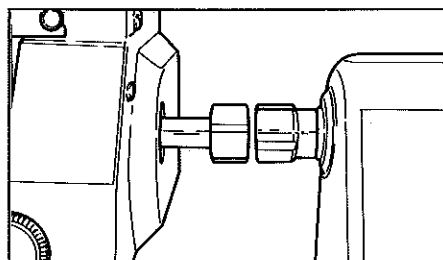


Figure 2. From the side, align the hubs vertically.

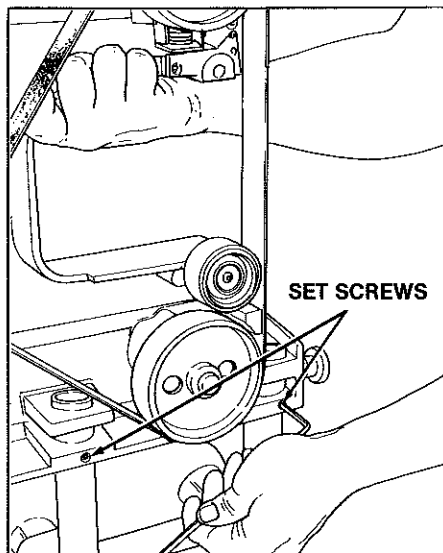


Figure 3. Tighten the setscrews.

5. **Check the hub alignment.** Slide the power plant toward the strip sander until the hubs touch. If they are aligned, both hubs will be at the same height and in the same side-to-side position. If they are not, repeat steps 3 and 4.

6. **Mount the table.** Move the power plant all the way to the right. Remove the table leveling clamp [bolt (42) and nut (43)] from the table (41). (See Figure 4.) Slide the table from right to left (facing strip sander) so the table slides over the belt and platen. Place the small flat washer (49) onto the shaft of the table lock knob (50). Place the large flat washer (48) onto the shaft and attach the table to the frame (12) with the table lock knob. (See Figure 5.) The trunnion (47) must be riding on the trunnion guide (29). Attach the table leveling clamp.

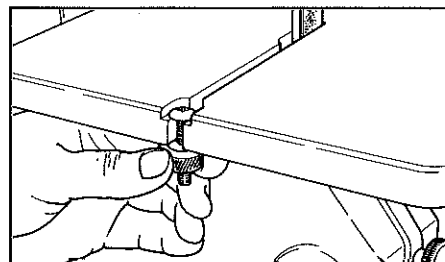


Figure 4. Remove the table leveling clamp.

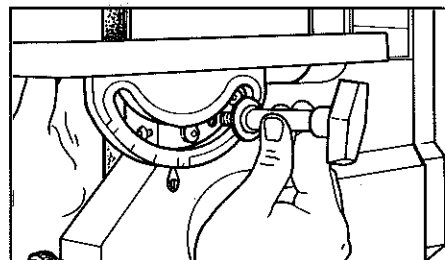


Figure 5. Attach the table to the frame.

7. **Square the table to the belt.** Position the head of a combination square against the face of the belt (51). Loosen the table lock knob (50). (See Figure 6.) Adjust the table as required to bring the square head in full contact with the belt surface. Tighten knob (50).

Setup

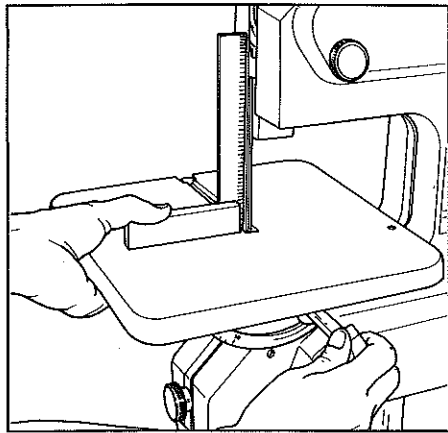


Figure 6. Square the table to the belt.

8. Adjust the table tilt indicator. Use a medium blade screwdriver to loosen screw (33). Set the tilt indicator (34) at "0." Tighten screw. (See Figure 7.)

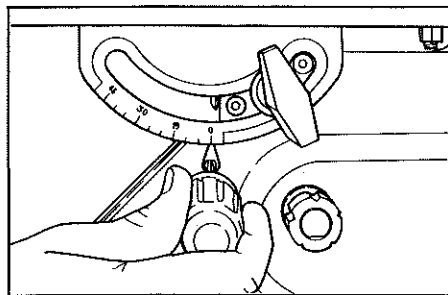


Figure 7. Set the table tilt indicator.

9. Set the 90° stop. With the table set at "0", use a 1/2" open-end wrench to loosen the table stop nut (45). Use a 5/32" Allen wrench to loosen or tighten setscrew (44) as required. (See Figure 8.) Screw should just make contact with frame (12). Tighten stop nut (45).

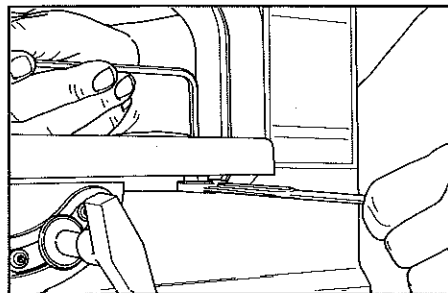


Figure 8. Set the 90° stop.

10. Wax and buff the table top (41). Use only paste furniture wax as recommended in your Mark V manual.

11. Connect the strip sander to the

power source. If you're using a power source other than the Mark V, follow the owners manual that came with that power source.

If you're using the Mark V, slide the power plant 10"-12" away from the strip sander. Plug the Mark V in, turn it on, and set speed to "Slow." **Turn off and unplug the Mark V.**

Install the "Accessory" end of the power coupler onto the strip sander drive hub (32). Slide the power plant until the Mark V upper auxiliary spindle hub slides into the other end of the coupler. Tighten the power plant lock, and check that the accessory mount lock is tight.

12. Check belt tracking. Turn on the power momentarily (no more than one second). Check to see that belt rides parallel to and down the middle of the platen; and that the belt is riding against the face of the platen. If the belt is "riding" to left of center on the platen and wheel, turn the tracking control knob (24) clockwise (Figure 9), or if the belt is "riding" too far right on the platen, turn the tracking control knob counterclockwise.

If the belt surface is not running parallel to the platen face (Figure 10), then you must adjust the platen.

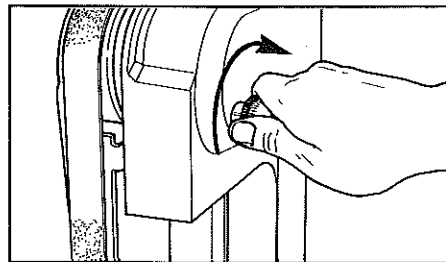


Figure 9. Adjust the tracking if the belt is "riding" off center of platen.

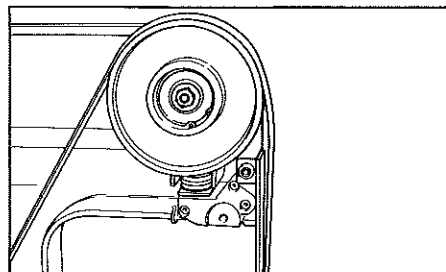


Figure 10. If the belt is not riding against the platen, as shown, the platen needs adjusting.

WARNING

Turn off and unplug the power to the strip sander.

a. If the flat or curved platen needs left/right adjustment, loosen the two screws (35) on the base of the platen and move the platen left or right until the sides are parallel with the belt. (See Figure 11.) Tighten screws (35).

b. If the flat platen needs forward/backward adjustment, loosen top screw (35) with a 5/32" Allen wrench and move the top of the platen in or out until it is parallel with the belt. Tighten top screw (35). (See Figure 12.)

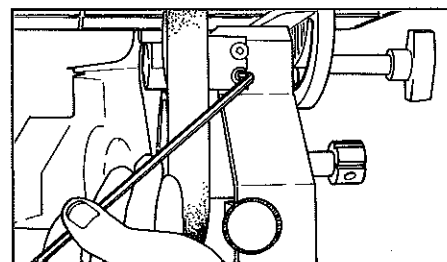


Figure 11. Adjust the flat or curved platen left or right as needed.

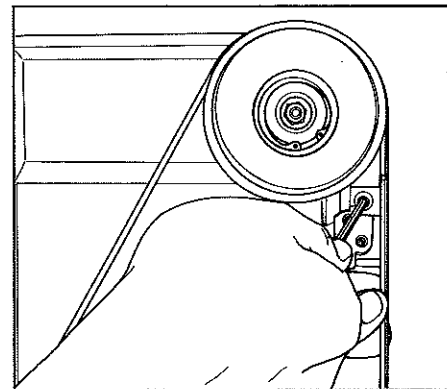


Figure 12. Adjust the flat platen in or out as needed.

13. Close the cover (1), then secure the lock knob (39). Gently press in cover until it engages with the "S" clip (53), found just below the top logo.

14. If you have a dust collection system, attach a hose to the dust chute on the front cover of the strip sander. **Do not attach a dust collection system during grinding operations.**

Belts and Platens

Choosing Belts and Platens

The choice of which platen, abrasive, grit, belt and speed is determined by the material which you are using. The chart, "Belts and Platens", references the different combinations of platen, abrasive, grit, belt and speed for different applications.

CAUTION

Garnet belts should only be used with wood or plastic. Aluminum oxide belts can be used with wood, metal or plastic. Never use garnet belts on metal.

Changing Belts and Platens

WARNING

Turn off and unplug the power to the strip sander.

1. Remove the table leveling clamp (42 and 43) from the table (41).
2. Open the cover (1) by loosening the cover lock knob (39). Gently pull cover until the "S" clip (53) disengages.
3. Remove the belt. Loosen the tension on the belt by pressing down on the tracking wheel (6) with the palm of your hand. (See Figure 13.) Remove the belt from the drive wheel (25) and idler wheels (17). Slide the belt through the slot in the table.

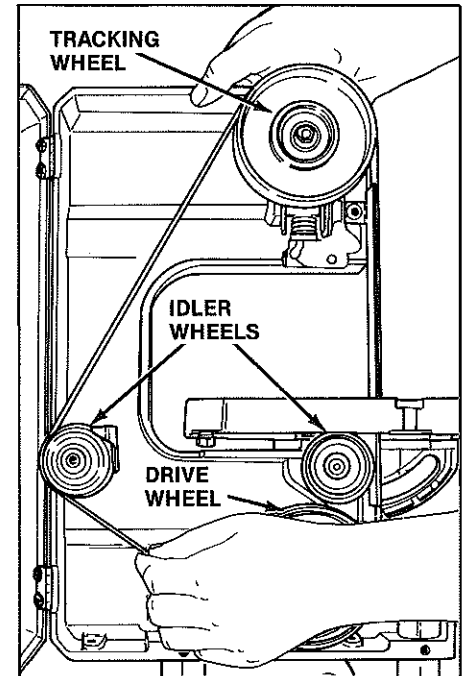


Figure 13. Press down on the tracking wheel to loosen the tension on the belt.

Belts, Platens and Speeds

GRIT	ABRASIVE		BELT		SPEEDS*			PLATEN				MATERIALS WORKED				
	GARNET	ALUMINUM OXIDE	1"	1/2"	DIAL SETTING	RPM	SF/MIN	1"	1/2"	CURVED 1/2" R.	NONE	HARD WOODS	SOFT WOODS	FERROUS METALS	NON-FERROUS METALS	PLASTICS*
80	✓		✓		SLOW-E	700-1150	550-903	✓		✓	✓	✓	✓			✓
100	✓		✓		B-G	850-1450	668-1139	✓		✓	✓	✓	✓			✓
150	✓		✓		D-I	1050-1750	825-1374	✓		✓	✓	✓	✓			✓
220	✓		✓		F-K	1300-2050	1022-1610	✓		✓	✓	✓	✓			✓
80	✓			✓	SLOW-E	700-1150	550-903		✓		✓	✓	✓			✓
100	✓			✓	B-G	850-1450	668-1139		✓		✓	✓	✓			✓
150	✓			✓	D-I	1050-1750	825-1374		✓		✓	✓	✓			✓
220	✓			✓	F-K	1300-2050	1021-1210		✓		✓	✓	✓			✓
60		✓	✓		SLOW-G	700-1450	550-1139	✓		✓	✓	✓	✓	✓	✓	✓
80		✓	✓		B-H	850-1600	668-1257	✓		✓	✓	✓	✓	✓	✓	✓
150		✓	✓		D-I	1050-1750	825-1374	✓		✓	✓	✓	✓	✓	✓	✓
220		✓	✓		F-J	1300-1900	1021-1492	✓		✓	✓	✓	✓	✓	✓	✓
320		✓	✓		H-K	1600-2050	1257-1610	✓		✓	✓	✓	✓	✓	✓	
400		✓	✓		E-I	1150-1750	903-1374	✓		✓	✓	✓		✓	✓	
600	SILICON-CARBIDE		✓		C-G	950-1450	746-1139	✓		✓	✓			✓	✓	
POLISH**			✓		SLOW-E	700-1150	550-903				✓			✓	✓	✓

* Plastics are always worked at "Slow" speed.

** Use the appropriate polishing compound for the material being worked.

Belts and Platens

4. **Change or remove the platen.** Depending on the operation you'll be performing, it may be necessary to change the platen or remove it.

a. If you are removing or changing the 1" or 1/2" **flat platen**, loosen the two screws (35) at the base of the platen (Figure 14) and one screw (35) at the top (Figure 15) with a 5/32" Allen wrench. Slide the platen sideways out through the table slot.

If you are removing or changing the 1/2" **curved platen**, loosen the two screws (35) at the base of the platen. (See Figure 14.) Slide the platen down through the hole in the center of the table. (See Figure 16.)

b. Choose the desired platen and slide it sideways through the table slot or up through the hole in the center of the table. Secure the platen to the frame with screws (35). When installing the curved platen, the top screw is not used. However, you must be sure to tighten the top screw against the frame.

5. **Install the belt** by placing it through the slot in the table, over the tracking wheel (6), then under the drive wheel (25). With the palm of your hand, push down on the tracking wheel (6), and place the belt onto the rear idler wheel (17). The belt is installed as shown in Figure 13. Belt tension is set automatically when the tracking wheel is released.

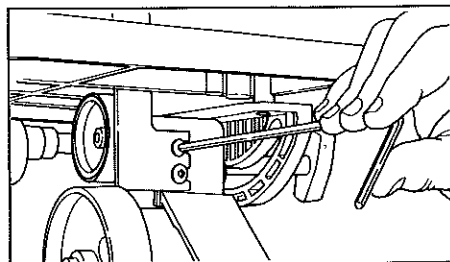


Figure 14. Loosen the flat or curved platen's base mounting screws.

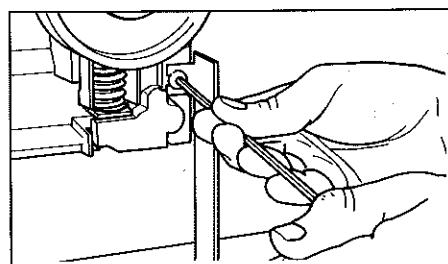


Figure 15. Loosen the flat platen's top mounting screw.

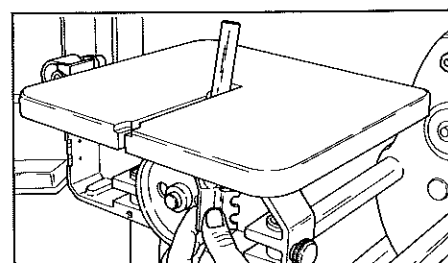


Figure 16. Slide the curved platen down and out through the hole in the center of the table.

NOTE

If you are doing internal sanding, position the belt according to the instructions for "Internal Sanding" in the **Operations** section.

NOTE

If you are using the curved platen and you find the belt edges too aggressive, it may be necessary to "stone" the belt before attempting to sand your workpiece. Stoning dulls the edge of the belt. To "stone" the belt, use an ordinary garden stone or old broken grinding wheel. After installing the curved platen and the desired belt, plug the strip sander into its power source and turn it on. Place the stone or broken grinding wheel against the left edge of the belt gently and carefully. Dull the abrasive grit on the edge only. Repeat this for the right side.

6. **Check belt tracking.** Refer to **Setup**, step 12.

7. **Install the table leveling clamp** (42 and 43) in the table (41).

8. **Close the cover (1) and secure the lock knob.** Then gently press in cover until it engages with the "S" clip, found just below the top logo.

Sanding Operations

WARNING

Before you operate the strip sander:

- Complete all of the **Setup** procedures.
- Read the **Safety** section.
- Secure the locks.
- Know and be ready to set the proper speed. Refer to the "Belts and Platens" chart.

End Sanding

Hold the edge of the stock down against the worktable and the end to be sanded against the belt and platen. Apply enough pressure to the work surface without "gouging" the wood. (See Figure 17.)

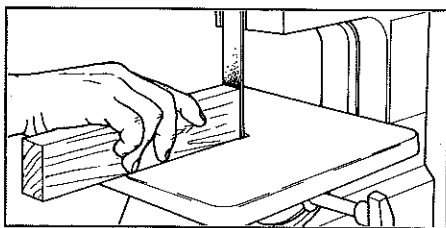


Figure 17. End Sanding.

Sanding Angles

Loosen the table lock knob and tilt the table to the desired angle. Hold the stock firmly against the table and apply light even pressure to the belt and platen. (See Figure 18.)

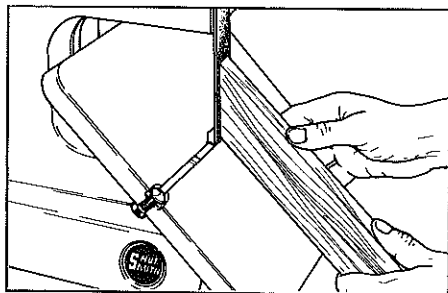


Figure 18. Sanding angles.

Sanding Convex Curves

Hold the stock firmly against the table and follow the line of the curve in a slow, steady motion. Apply light pres-

sure against the belt and platen. (See Figure 19.)

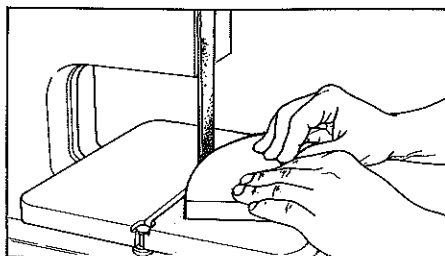


Figure 19. Sanding convex curves.

Sanding Concave Curves

To sand concave curves, use the curved platen or sand without a platen.

Follow the cut in a slow, steady motion, keeping the workpiece flat against the table. Apply light, even pressure to the belt. (See Figure 20.) Be careful not to hook the workpiece on the belt. You could pull the belt off the wheel.

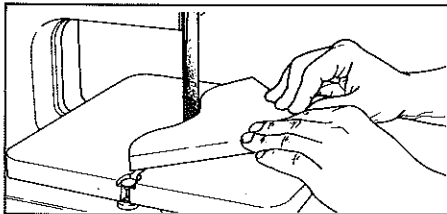


Figure 20. Sanding concave curves.

Sanding Without a Platen

It is recommended that you sand without a platen **only** for internal sanding and **only** when absolutely necessary. When you do, use a light pressure against the face of the belt. Do not hook the workpiece into the edge of the belt, as you could pull the belt off the wheel.

CAUTION

When sanding without a platen, make sure that all three platen mounting screws (35) are tightened against the frame. Also, use less pressure, a slower speed, and constantly check the belt tracking. Be careful not to pull the belt off the wheel. If the belt comes off the wheel, parts of the strip sander could be damaged.

Internal Sanding

To perform internal sanding operations, you **must** change the location of the left idler wheel assembly.

1. Remove the belt and platen. Refer to "Changing Belts and Platens."
2. Reposition the left idler wheel assembly.
 - a. Remove the left screw (14) with a 5/32" Allen wrench. (See Figure 21.)

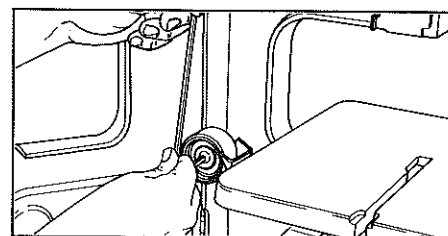


Figure 21. Loosen the screw to remove the idler wheel assembly.

- b. Remove the left idler wheel assembly (15, 16, 17) and the idler wheel guard (18).
- c. Install the idler wheel assembly, wheel guard and screw below the tracking wheel. Position the wheel guard horizontally. (See Figure 22.) Tighten screw (14) securely.

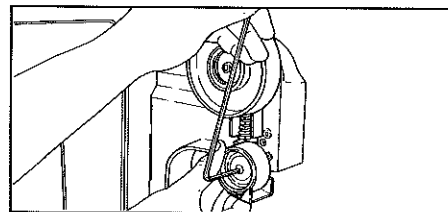


Figure 22. Install the wheel guard and the left idler wheel below the tracking wheel.

3. Place the workpiece on the table with the hole over the center of the table. Make sure you have enough clearance for the 1" or 1/2" flat platen, or the curved platen.

4. Insert the desired platen up through the holes in the table and the workpiece. Secure the flat platens to the frame with three screws (35). If you are using the curved platen, secure it with the two bottom screws, and make certain that you also tighten the top screw against the frame.

Operations

5. Insert the belt up through the holes in the table and the workpiece. (See Figure 23.)

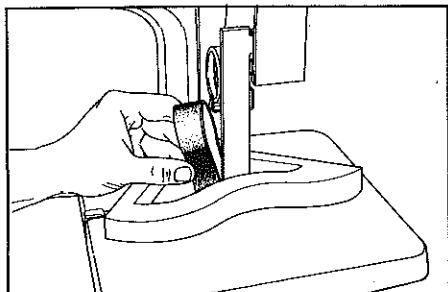


Figure 23. Insert the belt up through the holes in the table and the workpiece.

6. **Install the belt.** Place the belt around the bottom of the drive wheel (25) and feed the back of the belt under the lower idler wheel (17). Wrap the belt over the top of the tracking wheel (6). While pushing down on the tracking wheel (6), wrap the belt over the upper idler wheel. (See Figure 24.)

7. **Install the table leveling clamp (42 and 43).** Close the cover (1), and tighten the lock knob. Then gently press the cover in to engage the "S" clip (53).

8. **Sand the workpiece.** Refer to "End Sanding," "Sanding Angles" and "Sanding Convex and Concave Curves."

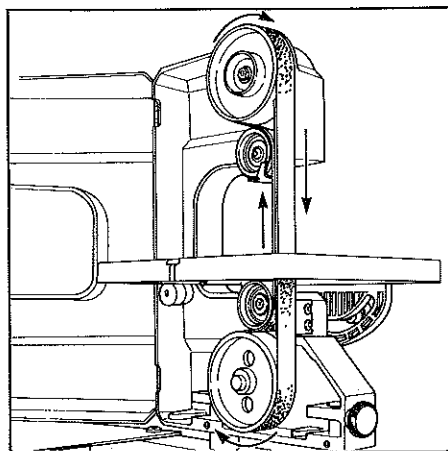


Figure 24. Install the belt onto the wheels.

(See Figure 25.) **Work slowly and never sand on the back of the platen.** When you've finished sanding the workpiece, remove it by reversing the procedure.

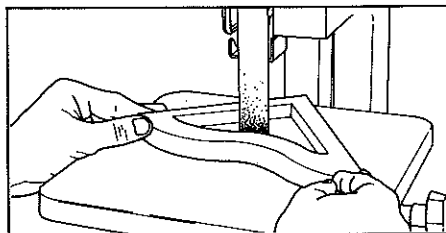


Figure 25. Internal Sanding.

Other Operations

You can sand plastics, and perform grinding and polishing operations on the strip sander. Refer to the chart in **Belts and Platens** to determine which belts and platens to use.

CAUTION

- Use "Slow" speed for sanding plastics. Using any speed higher could result in the material melting.
- Use garnet and aluminum oxide belts for sanding plastics.
- Use aluminum oxide belts for sanding and grinding metals.

Maintenance

The strip sander requires a minimum of maintenance.

As needed — Wax the table surface, brush and/or vacuum sawdust from the outside and inside of the strip sander, and clean pitch off the wheels with mineral spirits.

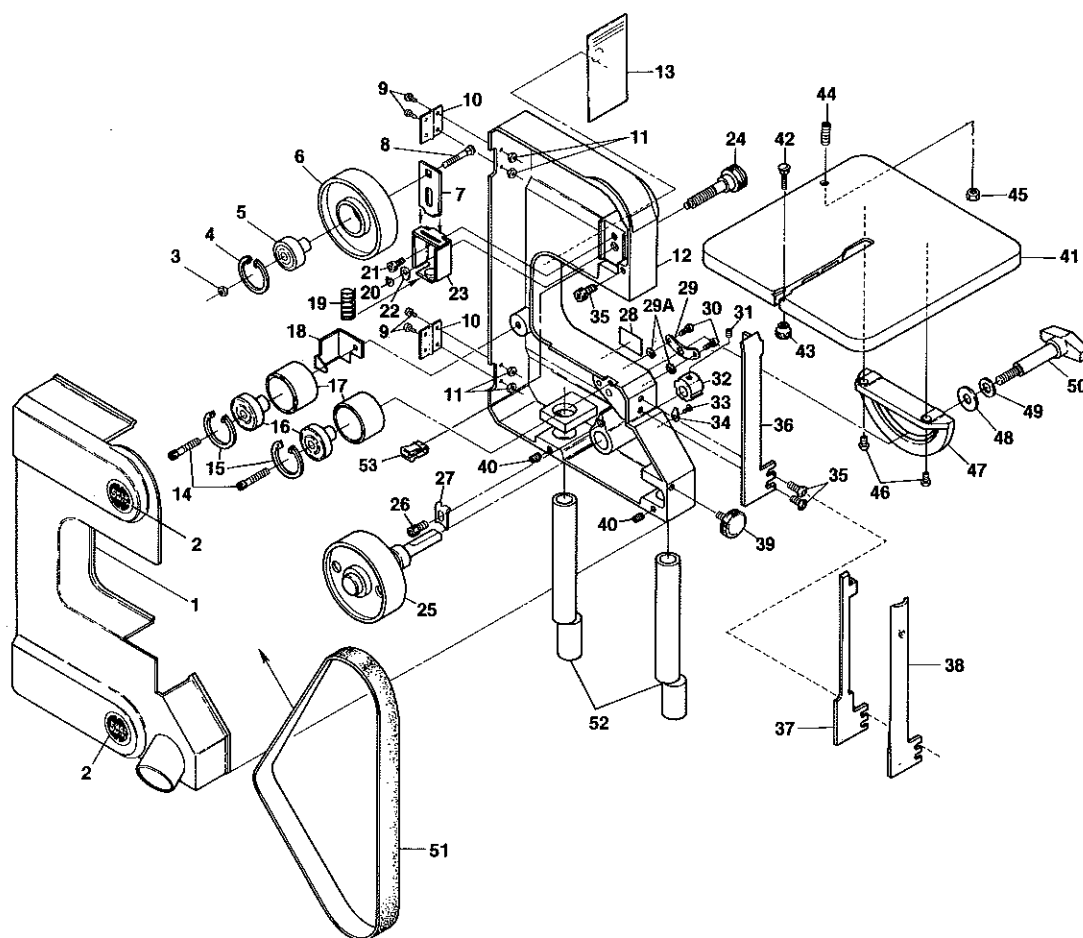
Troubleshooting Guide

Problem	Possible Cause	Solution
Sanding Belt won't track.	Dirty wheels.	Clean wheels.
	Too much side pressure.	Use less pressure.
	Tracking knob moved.	Adjust knob.
	Belt worn and/or damaged.	Replace belt.
No belt tension.	Tensioning mechanism dirty.	Remove tracking wheel and clean.
	Spring broken.	Replace spring.
Sanded edge is rounded.	No platen and too much pressure.	Use less pressure.
Belt pulls off wheels.	Workpiece hooked on edge of belt.	Do not hook edge of workpiece on belt.
Grinding Tool turns blue.	Speed too fast.	Use slower speed.
	Too much pressure.	Use less pressure.
	Holding tool against belt too long.	Use quick contact.
Belt loads up with non-ferrous metal.	Speed too fast.	Use slower speed.

Parts List

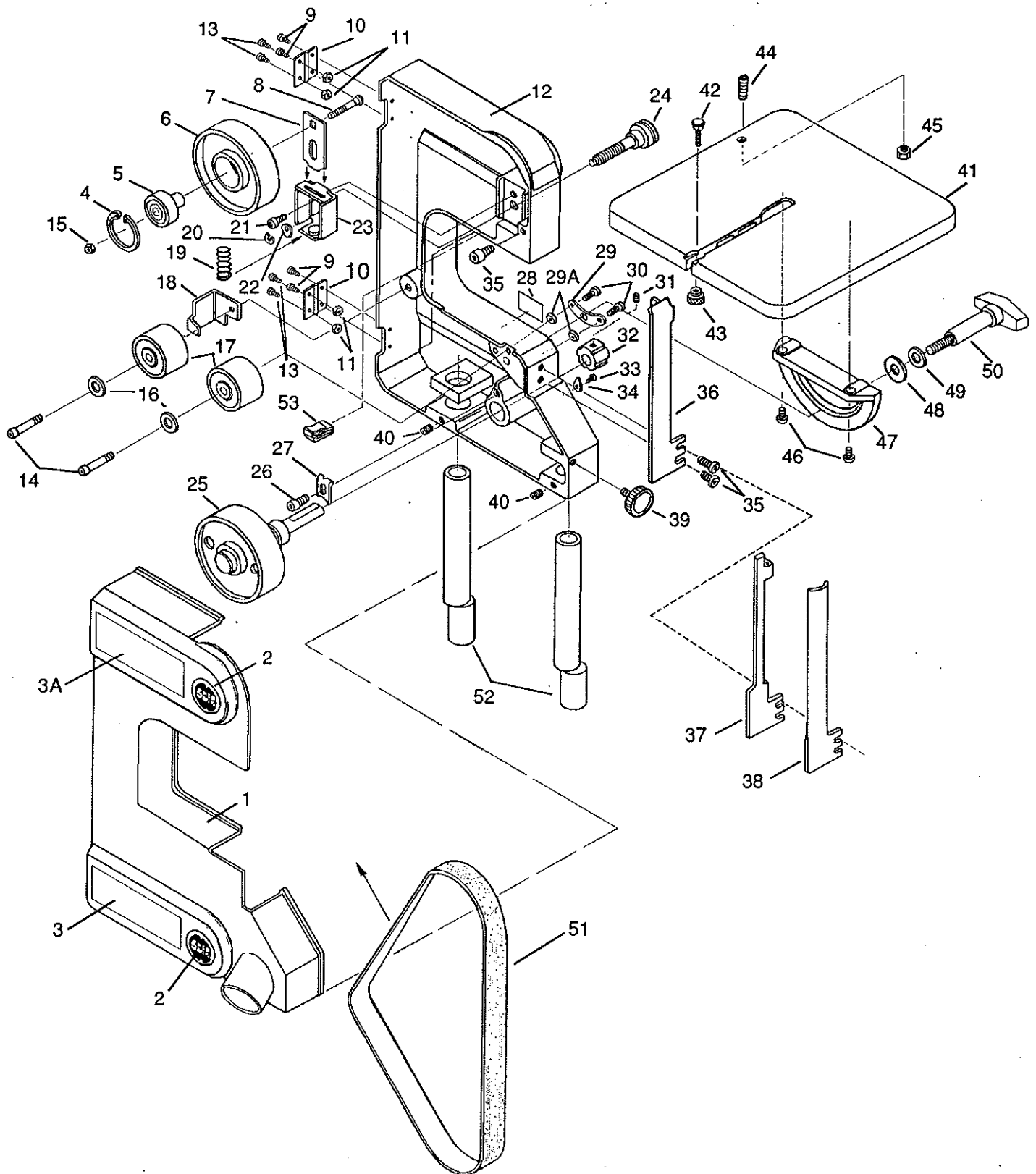
Ref. No.	Part No.	Description	Qty.
1	515384	Cover	1
2	515209	Logo	2
3	514204	Hex Nut, 1/4"-20	1
4	515409	Internal Retaining Ring	1
5	515420	Bearing and Shaft Assembly, Long	1
6	515385	Tracking Wheel	1
7	515403	Wheel Plate	1
8	126335	Carriage Bolt, 1/4"-20 x 1-1/2"	1
9	514040	Pan Head Screw, 10-24 x 5/16"	8
10	515399	Hinge	2
11	274737	Hex Nut, 10-24	4
12	515382	Frame	1
13	515439	Warning Label	1
14	515405	Socket Head Cap Screw, 1/4"-20 x 1-1/2"	2
15	515409	Internal Retaining Ring	2
16	515422	Bearing and Shaft Assembly, Short	2
17	515390	Idler Wheel	2
18	515423	Idler Wheel Guard	1
19	515417	Spring	1
20	515401	External Retaining Ring	1
21	513971	Socket Head Cap Screw, 1/4"-20 x 1/2"	1
22	504267	Flat Washer, 5/8"	1
23	515402	Wheel Bracket	1
24	515427	Tracking Control Knob	1
25	515392	Drive Wheel and Bearing Assembly	1
26	513809	Socket Head Cap Screw, 5/16"-18 x 5/8"	1
27	502726	Clamp	1
28	515309	Nameplate Label	1

Ref. No.	Part No.	Description	Qty.
29	515408	Trunnion Guide	1
29A	514985	Spacer	2
30	513201	Button Head Screw, 1/4"-20 x 3/4"	2
31	222458	Setscrew, 5/16"-18 x 1/4"	1
32	503576	Drive Hub	1
33	513623	Pan Head Screw, 6-32 x 5/16"	1
34	502885	Indicator	1
35	514393	Button Head Screw, 1/4"-20 x 1/2"	3
36	515395	Platen, 1"	1
37	515397	Platen, 1/2"	1
38	515396	Curved Platen, 1/2"	1
39	514642	Cover Lock Knob	1
40	222460	Setscrew, 5/16"-18 x 3/8"	2
41	515380	Table	1
42	126315	Carriage Bolt, 1/4"-20 x 1"	1
43	503782	Knurled Nut	1
44	514746	Setscrew, 5/16"-18 x 1"	1
45	102634	Hex Nut, 5/16"-18	1
46	514393	Button Head Screw, 1/4"-20 x 1/2"	2
47	515418	Trunnion	1
48	514490	Flat Washer, 1-1/8"	1
49	513739	Flat Washer, 3/4"	1
50	515394	Table Lock Knob	1
51	515472	Sanding Belt, 80 grit, Garnet 1" x 42"	1
—	515474	Sanding Belt, 150 grit, Garnet 1" x 42"	1
—	515479	Sanding Belt, 220 grit, Alum. Oxide 1" x 42"	1
52	513776	Eccentric Mounting Tubes	2
53	515568	"S" Clip	1



EXPLODED VIEW OF THE STRIP SANDER

This supplement to the **Strip Sander**
(Part No. 555309) Instruction Manual
(PL-5215) updates the **Parts List** and
Exploded View.



PARTS LIST FOR THE STRIP SANDER

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	515384	Cover	1	29A	514985	Spacer	2
2	516232	Logo	2	30	513201	Button Hd. Screw, 1/4"-20 x 3/4"	2
3	516825	Warning label	1	31	222458	Setscrew, 5/16"-18 x 3/4"	1
3A	516826	Label	1	32	503576	Drive Hub	1
4	515409	Internal Retaining Ring	1	33	513623	Pan Hd. Screw, 6-32 x 5/16"	1
5	51520	Bearing and Shaft Assembly, long	1	34	502885	Indicator	1
6	515385	Tracking Wheel	1	35	514393	Button Hd. Screw, 1/4"- 20 x 1/2"	3
7	515403	Wheel Plate	1	36	515395	Platen, 1"	1
8	126335	Carriage Bolt, 1/4"-20 x 1-1/2"	1	37	515397	Platen, 1/2"	1
9	514040	Pan Hd. Screw, 10-24 x 5/16"	4	38	515396	Curved Platen, 1/2"	1
10	515399	Hinge	2	39	514642	Cover Lock Knob	1
11	274737	Hex Nut, 10-24	4	40	222460	Setscrew, 5/16"-18 x 3/8"	2
12	515382	Frame	1	41	515380	Table	1
13	515610	Pan Hd. 10-32 x 3/8"	4	42	126315	Carriage Bolt, 1/4"- 20 x 1"	1
14	515805	Socket Hd. Cap Screw, 1/4"-20 x 1"	2	43	503782	Knurled Nut	1
15	514204	Hex Nut, 1/4"-20	1	44	514746	Setscrew, 5/16"- 18 x 1"	1
16	518122	Nylon Washers	2	45	102634	Hex Nut, 5/16"-18	1
17	516399	Idler wheel	2	46	514393	Button Hd. Screw, 1/4"-20 x 1/2"	2
18	515423	Idler Wheel Guard	1	47	515418	Trunnion	1
19	515417	Spring	1	48	514490	Flat Washer, 1-1/8"	1
20	515401	External Retaining Ring	1	49	513739	Flat Washer, 3/4"	1
21	513971	Socket Hd. Cap Screw; 1/4"-20 x 1/2"	1	50	515394	Table Lock Knob	1
22	504267	Flat Washer, 5/8"	1	51	515472	Sanding Belt, 80 grit, Garnet 1" x 42"	1
23	515402	Wheel Bracket	1	—	515474	Sanding Belt, 150 grit, Garnet 1" x 42"	1
24	515427	Tracking Control Knob	1	—	515479	Sanding Belt, 220 grit, Alum. Oxide 1" x 42"	1
25	515392	Drive Wheel and Bearing Assembly	1	52	513776	Eccentric Mounting Tubes	2
26	513809	Socket Hd. Cap Screw, 5/16"-18 x 5/8"	1	53	515568	"S" Clip	1
27	502726	Clamp	1				
28	515309	Nameplate Label	1				
29	515408	Trunnion Guide	1				

NOTE:

Items "11" and "13" are used to bolt item "1" to item "10".



Shopsmith, Inc.
3931 Image Drive
Dayton, Ohio 45414

Note: If you have further questions or need help, visit the
Shopsmith or Woodworking Unlimited store in your area,
or call Customer Services: Toll Free 1-800-762-7555.
(In Canada, 1-416-858-2400.)

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Serving Your Needs

Your Shopsmith equipment is covered by the Shopsmith Gold Medal Buyer Protection Plan. This plan includes a 30-day money-back guarantee, a full one-year warranty, and a lifetime reconditioning program.

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We guarantee your complete satisfaction! You can try the equipment for 30 days at no risk before you decide whether to keep it or not. Use it to make as many projects as you like. Compare it, feature for feature, with other equipment. Then, if the equipment isn't everything we say, call Customer Services and we'll advise you how to return it for a prompt and complete refund. We'll even pay for shipping.

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Your equipment is guaranteed against all defects in parts and workmanship for ONE FULL YEAR from the date of receipt. Here are the details:

Shopsmith warrants to the owner of Shopsmith woodworking equipment that the equipment will be free of manufacturing defects in materials and workmanship for a period of one year from the date of receipt. All claims must be submitted in writing within one month after expiration of the one-year warranty period. Shopsmith shall, by repair of, or at its option replacement, remedy any defect or malfunction covered by this warranty. This warranty excludes and does not cover defects, malfunctions, or failures of your Shopsmith equipment which are caused by damage while in your possession or that of a previous owner or by unreasonable use, including your failure or the failure of any previous owner to provide reasonable and necessary maintenance.

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Our equipment is designed for years of constant, rugged, uninterrupted operation. However, to insure the continued usefulness of your unit, we offer a unique Lifetime Reconditioning Program.

At any time, regardless of the age of your equipment, you can send it to us (round trip shipping at owner's expense), and we'll rebuild it and touch up the paint. We'll replace wearing parts such as bearings, seals, and belts. Your reconditioned equipment will come back to you with a new 90-day full warranty. Reconditioning or repair will be done for a cost that will not exceed one-third of the current list price of the equipment at the time of repair. If parts other than normal wearing parts need replacement, an estimate will be submitted to the owner for approval.

Warranted Service

To repair or replace a part in the equipment while it's still under warranty, call Customer Services.

Depending on the part you need or the type of repair, you may be able to replace or repair it yourself. If you are unable to do the repair yourself, Customer Services will instruct you where to send the part or your equipment. If the warranty is applicable, the part will be repaired at no charge.

Out-of-Warranty Service

If your equipment is out of warranty and needs service, call Customer Services for instructions on how you can have the part repaired at our Factory or Store for a fee. Customer Services will help you diagnose the problem, give you an estimate of the cost, and instruct you where to send the part or equipment for repair.

Shopsmith Stores carry a limited number of replacement parts and can perform some repairs. Call ahead to see if they can provide the part or the service you need.

How to Order Parts

To order replacement parts, first consult the Parts List. Then write or call for current price information.

How to Return Parts

Should you need to return the equipment, call Customer Services for packing and shipping information.

Customer Services

Where to Write—Send inquiries to:
Shopsmith, Inc.
Customer Services
3931 Image Drive
Dayton, Ohio 45414

Where to Phone—Shopsmith maintains toll-free telephone Services during normal business hours.

For service call:
1-800-762-7555 (Continental U.S., Hawaii, Alaska, Puerto Rico and U.S. Virgin Islands)
1-513-898-6070 (Dayton OH area and Canada)

To place an order call:
1-800-543-7586 (Continental U.S., Hawaii, Alaska, Puerto Rico and U.S. Virgin Islands)
1-513-898-6070 (Dayton OH area and Canada)

When you write or call, tell us your Customer Number and the Date Code of your equipment. (Your customer number appears on the invoice and the mailing labels of the literature we send you. The date code is stamped on the equipment.) Please write the numbers in the space provided here.

Customer No. _____

Date Code 727-93

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