

Power Station

Owners Manual

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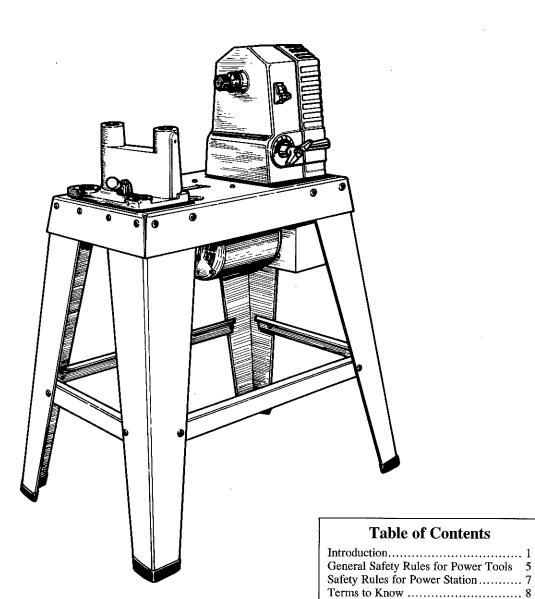
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WARNING

Read the SAFETY section and complete the *Assembly* procedures before operating the Power Station.

SHOPSMITH POWER STATION

INTRODUCTION

Congratulations on your purchase of the Shopsmith Power Station. Within five square feet of floor space, you can now start your own workshop—or give yourself the flexibility and convenience you need to handle projects in your present workshop. The Shopsmith Power Station is designed to run the following Major Accessories:

- · Shopsmith Bandsaw
- Shopsmith Jointer
- · Shopsmith Scroll Saw
- Shopsmith Strip Sander
- Shopsmith Belt Sander
- Shopsmith Jigsaw

NOTE

Alignment of a Major Accessory may differ between the Shopsmith MARK V and the Power Station. If you intend to use a Major Accessory listed above on BOTH the MARK V and the Power Station, the Major Accessory should be accurately aligned on the Power Station <u>first</u>. Then when you use a Major Accessory on the MARK V, slight variances in horizontal alignment can be overcome by adjusting the setscrew in the MARK V headrest (see your MARK V Owners Manual). Vertical alignment between your Major Accessory (already aligned with the Power Station) and the MARK V should not be required.

You can also use the Shopsmith Power Station with other Accessories available through Shopsmith, including:

- Disc Sander
- Drum Sander
- Flutter Sheet Sander
- Flexible Shaft (and various bits fitting into its chuck)

This Owners Manual tells you how to install and use each of the above Accessories with the Power Station. For details on operating a specific Accessory, you should consult the Accessory's owners manual. If you are missing the Accessory's owners manual, call or write Shopsmith at the phone numbers and address listed on the back cover of this manual.

WARNING

Do NOT attempt to operate any equipment unless you carefully read and understand ALL the instructions—especially the "Safety" sections—in BOTH this manual AND the manual which came with the accessory you wish to use with the Shopsmith Power Station. See this manual's back cover for service information inquiries.

1

SAFETY

The Shopsmith Power Station has many built-in features. But the effectiveness of these features depends on you. Power tool safety requires good common sense. Misuse of the Power Station or an Accessory you use with it can cause serious injury.

To protect yourself from injury:

- READ, UNDERSTAND AND FOLLOW ALL the information and instructions in this Owners Manual.
- Also, READ, UNDERSTAND AND FOLLOW ALL the information and instructions in the Owners Manual that comes with each Accessory you use with the Power Station.

Throughout this manual, we list WARNINGS, CAUTIONS, and NOTES. We advise that when you come to one of these listings, make sure you read and understand it fully. Their meanings are:

WARNING

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



A CAUTION is given when failure to follow the directions is likely to result in 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 and nose shields. They are not safety glasses.
- A face shield protects your entire face, not just your eyes.

Hearing Protection

- Prolonged exposure to high intensity noise from high speed power tools can damage your hearing.
- Hearing protectors screen out noise levels that can damage your ears, and are always recommended while using the Power Station with all Accessories.

Guarding

Most shop accidents happen to woodworkers who fail to follow instructions, or fail to use guards and safety devices. Although proper use of guards and safety devices often requires additional setup, the protection of you and your family should be your primary concern, and is well worth the effort.

Dress

- Loose hair and clothing which could be entangled in rotating cutters are very hazardous.
- Tuck long hair under a hat or tie it up. Do not wear ties, gloves, loose clothing, rings or other jewelry. Roll sleeves up above your elbows. Be aware of rotating parts and stay clear of them.

Electrical Requirements

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.)

<u>Extension Cord</u>— 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.

WIRE GAUGE CHART

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 we highly recommend that you connect the hose of a Shopsmith DC3300 Dust Collector or another dust collection system to the chute on your Accessory, if it has one.

WARNING

DON'T operate any dust collection system nor connect hoses if you are sharpening or grinding metal.

Sawdust and Chips

Sawdust and chips can be a fire hazard and breathing sawdust can be a health hazard. The sawdust from some woods is toxic. To help protect yourself from sawdust:

- Attach the Accessory mounted on the Power Station to a dust collection system.
- Wear a close-fitting dust mask. Clean or replace the filters in the mask regularly. Also, open a window or use a fan to ventilate your shop.

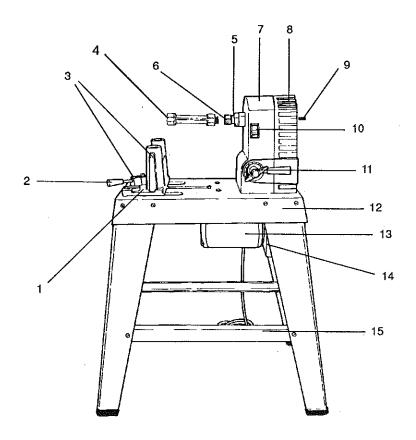
GENERAL SAFETY RULES FOR POWER TOOLS

- Know your power tool. Read the Owners Manual. Learn its applications and limitations as well as the specific potential hazards peculiar to this tool.
- Ground all tools (unless double insulated). If the tool is equipped with an approved 3-conductor cord and a 3-prong grounding type plug to fit the proper grounding type receptacle, the green conductor in the cord is the grounding wire. Never connect the green wire to a live terminal.
- · Wear proper eye and ear protection. Also, wear a dust mask.
- Keep guards in place. Always keep guards in working order and in proper alignment and adjustment. Most injuries occur on unguarded power tools.
- · Remove adjusting keys and wrenches.
- Wear proper apparel. Do not wear loose clothing, ties, gloves, rings or other 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 tired, taking medication, or under the influence of alcohol or drugs.
- Avoid dangerous environments. Do not use power tools in damp, wet or explosive atmospheres.
- Keep work areas well lit, clean, and free from clutter.
- Do not force a tool. It will do the job better and safer at the rate for which it was designed.
- Use the right tool. Do not try to use a tool or accessory for a job for which it is not designed.
- For direction of feed: ALWAYS feed the workpiece into the cutter against the rotation of the cutter. NEVER feed the workpiece into the cutter with the rotation of the cutter.
- Check for any damaged parts. A damaged guard or part should be properly repaired or replaced before further use. If a strange noise or vibration develops, immediately turn off the power, unplug the machine and correct the problem. Never operate a power tool that is not functioning properly.

- Secure your workpieces. When practical, use clamps, fixtures, and other devices to hold workpieces. Use featherboards and push blocks when appropriate. It's safer than using your hands and it frees your hands to operate the tool.
- · 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 off the power. Do not leave the tool until it comes to a complete stop.
- Avoid unintentional starting. Make sure the safety key is removed from the switch before plugging in or unplugging the tool.
- Disconnect your power tools. Turn off and remove the safety key, then unplug the 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.
- Maintain your tools. Keep parts and tools sharp, clean and maintained according to the owners manual.
- Make your workshop childproof. Use padlocks, master switches and remove the safety key.
- Keep children away. All visitors should stay a safe distance from power tools, and wear eye and ear protection. No one should be in the work area while you are operating a power tool.
- Do not permit anyone who is inexperienced to use your power tools without supervision.

SAFETY RULES FOR THE SHOPSMITH POWER STATION

- Be sure that you read, understand and follow the Owners Manual of each Accessory that you use with the Power Station.
- Do not use the Power Station with any type of circular saw blade or any other table saw accessories.
- Use only the Accessories with the Power Station which are specified in this Owners Manual and recommended by Shopsmith.
- Do not use this Power Station to drive any type of grinding wheel (guarded or unguarded), including the Shopsmith Grinding Wheel Guard Kit.
- Use the Power Station with Shopsmith Accessories only. Also use only Shopsmith parts and accessories on your Power Station. Mounting and using non-Shopsmith Accessories on the Shopsmith Power Station, or using non-Shopsmith parts will create a hazardous condition and void your warranty.
- Always reduce the speed to its lowest setting before you turn off the Power Station and remove the safety key (35).
- Never reach with your hands, tools or any other object beneath the Power Station while it is running.
- Always mount the outer shaft cover (40) over the outer drive shaft when the outer drive shaft is not in use.
- Whenever operating two separate Accessories on the Power Station, never exceed the maximum operating RPM of the SLOWEST accessory.
- Always use dust collection whenever possible.
- Always securely lock the Accessory in the Power Station before operating it.
- Always be sure the Power Station carriage is locked in position before operating any Accessory with the Power Station.
- If you hear a strange noise or vibration during operations, turn off the Power Station, remove the safety key (35) and disconnect the power cord before investigating the noise or vibration.
- Do not operate damaged machinery.
- When setting the speed of the Power Station, always securely tighten the speed control knob (41).
- Remove the safety key (35) to lock the Power Station in the "off" position when finished with each operation and before servicing the Power Station.



Here are some terms and descriptions for various parts of the Power Station. Knowing them will help you throughout this manual.

- 1. Carriage— The holder of the mounting tubes of a Major Accessory or Extension Table. It slides forward to engage the Power Station hub (via the coupler), and slides back to disengage. The tall holes are for mounting the Jointer, Scroll Saw and Extension Table. The short holes are for the Bandsaw, Strip Sander, Belt Sander and Jigsaw.
- 2. Carriage Lock—Turn the handle to the right to lock the carriage in place, and turn it to the left to unlock it.
- 3. Setscrews— Used to secure the Major Accessory or Extension Table mounting tubes to the Power Station's carriage. Supplied is a 5/32" Allen wrench.
- 4. **Power Coupler** Connects the Power Station Hub to the Major Accessory Hub in order to transfer power to a Major Accessory.
- 5. Drive Shaft-- Delivers power to Major Accessories and other minor accessories.
- 6. **Drive Shaft Hub--** connects the Power Station with the Major Accessories via the power coupler.

- 7. **Headstock--** transfers the motor power to the drive shaft through a variable speed mechanism.
- 8. Housing Cover-- covers belts and pulleys above the base.
- 9. Outer Drive Shaft—allows you to power various tools from the outer side of the headstock, and to perform two functions at the same time—one attached to the main, inside drive shaft and one attached to the outer drive shaft. When not in use, it should be covered by the Outer Shaft Cover, which is installed by inserting it over the Outer Drive Shaft, into the Housing Cover, then gently twisting it to the right until it engages the notches in the Housing Cover.
- 10. Lockable Power Switch—turns the machine on and off, and can be locked in the "off" position by removing the safety key.
- 11. Motor Speed Dial—adjusts the drive shaft from 850* to 3,850* rpms- a wide range of speeds to accommodate a variety of accessories performing different tasks.
- 12. Base-- supports the Headstock, Motor and Carriage.
- 13. Motor—3/4 hp continuous. 10 Amp.
- 14. Belt & Pulley Guard-- covers belts and pulleys below the base.
- 15. Leg Braces-- add rigidity and stability to the Power Station.
- 16. Optional Retractable Casters— (not shown). Can be purchased extra. Allows you to more easily move the Power Station, then lock it in place.

SPECIFICATIONS

The Shopsmith Power Station measures 28-1/2" long x 19-1/2" wide x 37-3/4" high and weighs 73 lbs. It can be stored in 5 square feet of floor space.

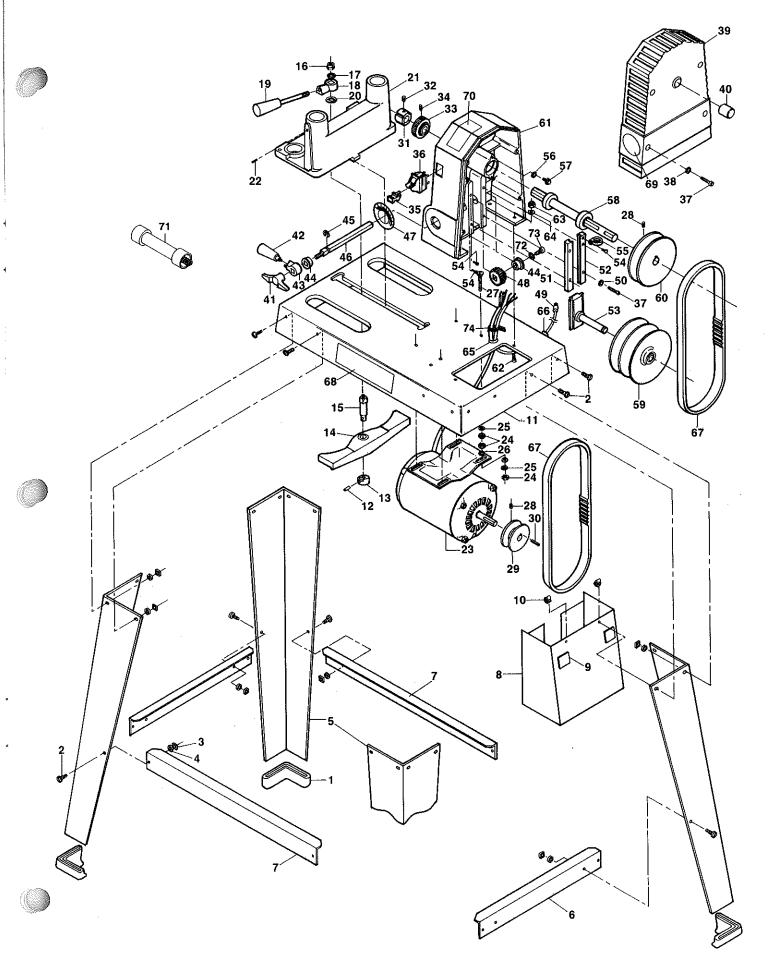
The heavy duty electric motor is a continuous rated motor that generates 3/4 continuous h.p. at 10 Amps and 115 Volts on 60 Hz electricity. It will develop a maximum of 1 h.p.

POWER STATION APPROXIMATE SPEED CHART *

*All speeds listed at the various speed settings throughout this manual may vary slightly, due to production variations.

POWER STATION PARTS LIST

Ref. Part No. No.	Description	Qty.	Ref. Part No. No.	Description	Qty.
1 513969	Leg Boot	4	40 515667	Shaft Cover	1
2 160515	Screw, Pan Head, 1/4"-20 x 1/2"	24	41 515662	Knob, Speed Control Clamp	1
3 514204	Hex Nut, 1/4"-20	22	42 515650	Speed Control Lever	1
4 115546	Washer, Star, 1/4"	22	43 515657	Lever Base, Speed Control	1
5 502766-02	Leg	4	44 515640	Bushing	2
6 502769-02	Short Leg Brace	2	45 504259	Retaining Washer	1
7 515888	Long Leg Brace	2	46 515642	Speed Control Shaft	1
8 515770	Belt Guard Assembly (inc. 9)	1	47 515655	Speed Control Label	1
9 515701	. Belt Guard Pad	2	48 515641	Gear	•
10 515744	Tinnerman Nut, 1/4"-20	2	49 515652	Cord	i
11 515771	Base (with label 68)	1	50 502333	Washer, 1/4"	à
12 514527	Rollpin, 5/32" x 7/8"	1	51 515637	Left Guide	1
13 514096	Cam Wedge	1	52 515707	Right Guide	i
14 515724	Clamp	ì	53 515635	Rack and Shaft Assembly	1
15 515727	Clamp Shaft	1	54 515120	Taptite Screw	á
16 443334	Nut, Hex Flexlock, 5/16"-24	1	55 515647	Cable Clamp	1
17 120393	Washer, 5/16"	1	56 120392	Washer, 1/4"	2
18 515726	Handle Base	1	57 515880	Screw, Self Tapping,	2
19 513058	Handle	1	07 010000	1/4"-20 x 1/2"	2
20 515747	Special Washer	1	58 515672	Shaft and Bearing Assembly	
21 515631	Carriage Assembly (inc. 22)	i	59 515627	Variator	1
22 501634	. Nylock Setscrew, 5/16"-18	4	60 515624	Sheave, 4-1/2"	1
23 515623	Motor	1	61 515772	Main Housing (inc. labels 47, 70)	•
24 102634	Hex Nut	12	62 513795	Screw, Socket Head Cap,	1
25 115548	Internal Tooth Washer, 5/16"	8	02 313/93	5/16"- 18 x 3/4"	4
26 502081	Washer, 5/8"	8	63 102634		
27 515651	Bolt. 5/16"-18 x 3"	4	64 115548	Nut, Hex, 5/16" Washer, 5/16"	4
28 115321	Setscrew, 5/16"-18 x 5/16"	2	65 515645		4
29 515625	Sheave, 2-1/2"	1	66 513740	Snap Bushing	1
30 515656	Key	1	67 515633	Strain Relief	1
- 503570	Hub Drive Assembly (inc. 31-32)	1	68 515697	Belt	2
31 503571M	. Hub			Label	2
32 502051	. Setscrew, 5/16"-18 x 3/8"	1	69 515209	Logo Label	2
33 501306	Spindle Knob	1	70 515654	Warning Label	1
34 102581	Setscrew, 5/16"-18 x 3/8"	1	71 503574	Power Coupler	1
35 515107		1	72 515809	Special Washer	1
36 514796	Safety Key	1	73 513513	Screw, Socket Head Cap,	1
37 513386	Locking Rocker Switch	1		10-24 x 5/8"	
	Screw, Socket 1/4"-20 x 1"	8	74 513065	Wire Tie	1
38 502333	Washer, 1/4"	4	- 502925	5/32" Short Allen Wrench	1
39 515622	Housing Cover	1			





Power Station

Switch Update / Service Information

The following information pertains to all Shopsmith Power Stations. If you have recently purchased a Power Station, which contains a Date Code of 11/25/92 or later, please refer to ITEM #1 below. If you are repairing your Power Station, which contains a Date Code earlier than 11/25/ 92, please refer to ITEM #2 below. If you are repairing your Power Station, which contains a Date Code of 11/25/92 or later, please refer to ITEM #3 below.

1) The following Part Numbers have changed; please update your Power Station Instruction Manual.

Ref. No. 35, Part No. 515107, Description - Safety Key, Qty. 1 SHOULD BE DELETED Ref. No. 36, Part No. 514796, Description - Locking Rocker Switch, Qty. 1 SHOULD NOW READ Ref. No. 36, Part No. 516532, Description - On/Off Switch, Qty. 1

<u>ALSO</u>, add to your Power Station Instruction Manual the following:

Ref. No. 36A, Part No. 518051, Description - 1/4" DBL Spade Terminal, Qty. 2. These terminals plug into the new switch, referred to above.

2) The following Parts/ Part Numbers have changed; please update your Power Station Instruction Manual.

You should have ordered and received Part No. 518053 for replacing the switch in your Power Station. It contains the following: 516532 On/Off Switch (1)

> 518051 1/4" Double Spade Terminal (2) 518055 3/16" Single Spade Terminal (4)

IF the switch being replaced contains 4 terminals, then attach the 4 Single Spade Terminals(518055) to the new On/Off Switch(516532). Make sure you push each terminal into the switch as far as it will go.

IF the switch being replaced contains 2 terminals, then attach the 2 Double Spade Terminals(518051) to the new On/Off Switch(516532). Make sure you push each terminal into the switch as far as it will go.

3) Follow the instructions in ITEMS #1 and #2 above.



Shopsmith, Inc. 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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INTRODUCTION

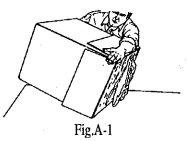
The Power Station comes mostly preassembled. You just need to install the legs, belt and pulley guard, leg braces and leg boots. Please follow these instructions in sequence. The numbers in parentheses are reference numbers used in the Exploded View of the Power Station and the Parts List.

Tools Needed:

Large straight-bladed screwdriver 5/32" Allen wrench 7/16" open end wrench 1/2" open end wrench (optional) Adjustable wrench (optional) Pliers (optional) Paste or furniture Wax Shop rag

PREPARE THE POWER STATION

- 1. By now, you should have placed the Power Station box (top-side up) on the floor, table or workbench. Clear your work area, also.
- 2. Additionally, you should have already removed all the packing staples holding the top flaps. Unremoved staples can scratch and mar a floor, table or workbench.
- 3. Fold back the top flaps of the box. Do not remove the foam packing from the top.
- 4. Gently turn the entire box upside down. See Fig.A-1.
- 5. Slowly lift the box from the Power Station. See Fig.A-2. You will be assembling the legs, belt and pulley guard and leg braces with the Power Station in this position. The foam padding and cardboard gives it support and stability, as in Fig.A-3, during your assembly operations.
- 6. Remove the hardware packet from the packing. Also remove the legs and leg braces from the remaining box.





INSTALL THE LEGS ON THE HEADSTOCK-END

7. Working on the headstock end of the Power Station, hold a leg (5) in place while inserting a screw (2) through the corner top hole, fastening it with a star washer (4) and a nut (3). See Fig.A-4. Finger tighten. Repeat this for the two side holes. Don't insert a screw in the end inside hole yet.

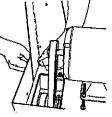


Fig.A-4

8. Repeat Step 7 for the other leg on the headstock end, remembering to leave the end inside hole alone for now. See Fig.A-5.

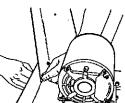


Fig.A-5

INSTALL THE BELT & PULLEY GUARD

9. Slip a Tinnerman nut (10) over each hole in the belt and pulley guard (8), making sure that the nut side faces the inside of the guard. See Fig.A-6.



If the Tinnerman nuts do not hold in place after you have performed Step 9, remove each Tinnerman nut and gently squeeze it's two sides with pliers. This should allow it to snugly grip the belt and pulley guard.

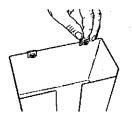
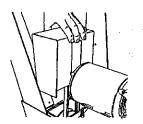


Fig.A-6

10. Place the belt and pulley guard (8) between the legs, as in Fig.A-7, with the motor drive shaft fitting into the guard's slot.



11. Thread a screw (2) through the Power Station base (11), leg (5) and the belt and pulley guard (8) on each of the two end inside holes. Finger tighten the screws. See Fig.A-8.

Fig.A-7

INSTALL THE LEGS ON THE CARRIAGE-END

12. Working on the carriage end of the Power Station now, hold a leg in place while you insert a screw (2) through the base (11) and leg (5), securing it with a star washer (4) and a nut (3). Repeat this for each hole. Finger tighten. See Fig.A-9.



13. Repeat Step 12 to install the other leg.

Fig.A-8

Fig.A-9

INSTALL THE SHORT LEG BRACES

14. Working on the headstock side of the Power Station, place a short leg brace (6) between the end legs, making sure that the "top ledge" of the leg brace faces toward the motor. See Fig.A-10. Use the leg holes located 10-1/2" from each leg end.

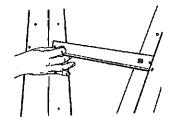


Fig A-10

15. Attach the leg brace (6) to the legs by installing a screw (2), star washer (4) and nut (3) through each inside hole of the short leg brace (6). Finger tighten.

16. Repeat Steps 14 and 15 to install the other short leg brace (6) on the legs located on the carriage end of the Power Station.

INSTALL THE LONG LEG BRACES

17. Place a long leg brace (7) between a carriage-end leg and a headstock-end leg, making sure that the flat "top ledge" of the leg brace faces the motor. Again, use the leg holes located 10-1/2" from each leg end.

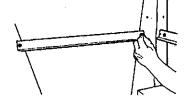


Fig.A-11

- 18. Attach the long leg brace (7) to the legs by installing a screw (2), star washer (4) and nut (3) in each end. Finger tighten. See Fig.A-11.
- 19. Repeat Steps 14 and 15 to install the other long leg brace (7) between a carriage-end leg and a headstock-end leg. See Fig.A-12.

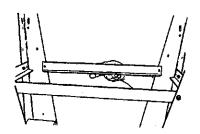


Fig.A-12

SECURELY TIGHTEN ALL NUTS AND SCREWS

20. After you have all the legs, leg braces, pulley and belt guard and hardware installed as described above, securely tighten all the nuts and screws which attach the legs (5) to the base (11). Then tighten all the nuts and screws attaching the leg braces (6 and 7) to the legs (5). See Fig.A-13.

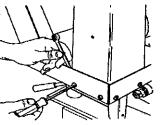


Fig.A-13

INSTALL THE LEG BOOTS

18. Slip a leg boot (1) onto each leg end, gently "working" the leg boot until it snugly fits the leg end. See Fig.A-14.

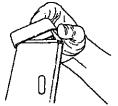


Fig.A-14

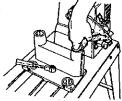
PLACE THE POWER STATION UPRIGHT

19. Carefully place the Power Station upright, as in Fig.A-15.

WAX THE CARRIAGE PATH AND TUBE HOLES (to help the sliding of the various parts)

20. Using paste or furniture wax (NOT car wax) and a soft cloth, wax the entire carriage slide path. You will need to loosen the carriage lock and slide the carriage forward in order to wax all of the path. Buff off the excess wax. See Figs. A-16 and A-17.

21. Wax the inside of each of the four tubeholes in the carriage. See Fig.A-18.



ADJUST THE CARRIAGE LOCK NUT

22. The carriage lock nut (16) is adjusted at the fig.A-18 factory. However, if the carriage is not locking securely enough (or is too tight), you need to adjust the carriage lock nut (16) with a wrench, as shown in Fig.A-19.

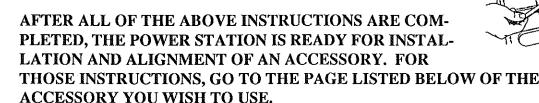




Fig.A-15

Fig.A-16

Fig.A-17

 Bandsaw
 16

 Jointer
 20

 Scroll Saw
 23

 Strip Sander
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 Belt Sander
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 Jig Saw
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 Disc Sander
 36

 Drum Sander
 38

 Flutter Sander
 39

 Flexible Shaft
 40

WARNING

Use only the Accessories with the Power Station which are specified in this Owners Manual. Do not use saw blades, grinding wheels, or any other tools with the Power Station not specifically mentioned in the Power Station Owners Manual.

BANDSAW ALIGNMENT

Tool Needed: 5/32" Allen wrench

PREPARE THE POWER STATION FOR MOUNTING THE BAND-SAW

- 1. Make sure the Power Station is: set at the slowest speed, turned off, unplugged and the safety key (35) is removed from the switch.
- 2. The carriage should be positioned all the way to the left, and locked by moving the handle (19) to the right.

PREPARE THE BANDSAW FOR MOUNTING ON THE POWER STATION

- 3. —<u>IF YOU</u> have purchased your Bandsaw to be operated with the Shopsmith Power Station, read the entire Bandsaw Owners Manual, including instructions up to the point of mounting it on the Shopsmith MARK V. Then proceed with Step 4 of this section.
- —<u>IF YOU</u> have your Bandsaw already set up to operate with the Shopsmith MARK V, you are now prepared to mount it on the Power Station. Proceed with Step 4 of this section.
- —<u>IF YOU</u> have your Bandsaw installed on the Shopsmith Major Accessory Power Stand (513963), remove it from the Power Stand. Remove the pulley from the drive shaft. Also remove the pulley guard bracket, located below the drive shaft. After removing the pulley and the pulley guard bracket, install the drive hub normally used when operating the Bandsaw with the Shopsmith MARK V. Then proceed with Step 4 of this section.

MOUNT THE BANDSAW ON THE POWER STATION

- 4. Placing your hands on the table and on the middle of the Bandsaw, lift it into the short tube holes in the Power Station carriage, with the drive shaft pointing toward the Power Station headstock. See Fig.B-1. You may need to adjust the Bandsaw's mounting tubes to fit them in the tube holes.
- 5. Place the power coupler (71) on the Bandsaw 's drive hub. See Fig.B-2.

NOTE

The coupler MUST be on the hub all the way and evenly "squared" on the hub. If not, alignment may be off. Also, vibration and premature coupler wear may result.

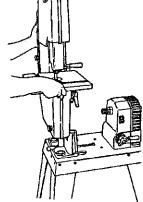


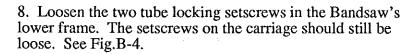
Fig.B-1

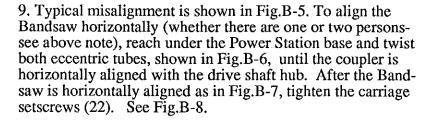
- 6. Unlock the carriage (21) by turning the handle (19) to the left. With your hands placed on the carriage and Bandsaw, slide the carriage toward the Power Station's drive shaft hub (31) until the coupler almost touches the hub. See Fig.B-3.
- 7. Lock the carriage by turning the handle (19) to the right.

NOTE

HORIZONTALLY ALIGN THE BANDSAW TO THE POWER STATION'S DRIVE SHAFT HUB

This may be a two person job, as it may be more convenient for one person to align the Bandsaw while the other person tightens the setscrews. If a second person is unavailable, then you may need to estimate the adjustment needed, tighten the carriage and Bandsaw setscrews (22), and recheck the alignment.





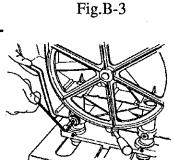


Fig.B-4

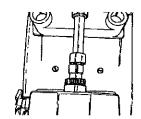


Fig.B-5

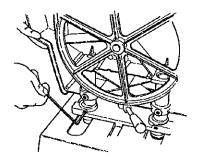


Fig.B-8

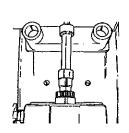


Fig.B-7

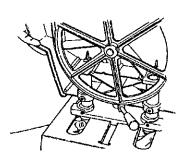


Fig.B-6

VERTICALLY ALIGN THE BANDSAW TO THE POWER STATION'S DRIVE SHAFT HUB

10. Typical vertical misalignment is shown in Fig.B-9. After you have horizontally aligned the Bandsaw to the drive shaft hub (31), lift the Bandsaw (see Fig.B-10) until the coupler vertically aligns with the drive shaft hub, as in Fig.B-11. When they are vertically aligned, tighten the Bandsaw tube setscrews. See Fig.B-12. Recheck the vertical alignment. If it is off, re-do it.

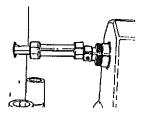


Fig.B-9

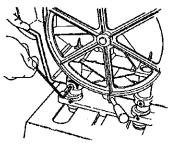


Fig.B-12

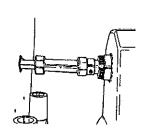


Fig.B-11

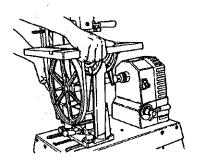


Fig.B-10



It is very important that the two hubs be aligned both horizontally and vertically, so that the coupler does not experience stress caused by misalignment.

PREPARE FOR OPERATIONS

- 11. Make sure all four setscrews on both the Bandsaw and the Power Station carriage are securely tightened.
- 12. Line up the notches in the drive shaft hub with the ridges inside the coupler. Unlock the carriage, and with one hand on the carriage and another near the middle of the Bandsaw, slide the carriage so that the coupler on the Bandsaw fits over the drive shaft hub (31). See Fig.B-13.

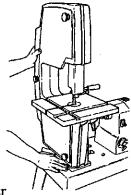


Fig.B-13

- 13. After you have securely connected the Bandsaw to the Power Station with the coupler, lock the carriage (21) by turning the handle (19) to the right.
- 14. Plug in the Power Station and insert the safety key. You are now ready to operate the Bandsaw with the Power Station.

BANDSAW OPERATIONS--

WARNING

Read the "Safety" and "Operations" sections in your Shopsmith Bandsaw Owners Manual before operating the Bandsaw with the Power Station. Additional information and instructions are provided in the text, Power Tool Woodworking For Everyone. If you have questions, call or write Customer Service at the addresses and phone numbers listed on the back cover of this manual.

POWER STATION SPEED SETTINGS FOR USING THE BANDSAW

The following is a chart of recommended Power Station speed settings to use with the Bandsaw:

BLADE SIZE		WOOD S. SETTING	SOFTWOOD RPM P.S. SETTING		
1/16" 1/8" 1/4" 1/2" 5/8"	950 950 850 850 850	1-1/2 1-1/2 1 1 1	1050 1050 950 850 850	2 2 1-1/2 1	

JOINTER ALIGNMENT

Tool Needed:

5/32" Allen wrench

PREPARE THE POWER STATION FOR MOUNTING THE JOINTER

- 1. Make sure the Power Station is: set at its slowest speed, turned off, unplugged and the safety key (35) removed from the switch.
- 2. The carriage (21) should be positioned all the way to the left, and locked by moving the handle (19) to the right.

PREPARE THE JOINTER FOR MOUNTING ON THE POWER STATION

- 3. —<u>IF YOU</u> have purchased your Jointer to be operated with the Shopsmith Power Station, read and understand the entire Jointer Owners Manual, including the instructions up to the point of mounting it on the Shopsmith MARK V. Then proceed with Step 4 of this section.
- —<u>IF YOU</u> have your Jointer already set up to operate with the Shopsmith MARK V, you are now prepared to mount it on the Power Station. Proceed with Step 4 of this section.
- —<u>IF YOU</u> have your Jointer installed on the Shopsmith Major Accessory Power Stand (513963), you will need to remove the pulley from the power shaft. After removing the pulley and the pulley guard bracket, install the drive shaft hub normally used when operating the Jointer with the Shopsmith MARK V. Then proceed with Step 4 of this section.

MOUNT THE JOINTER ON THE POWER STATION

- 4. Insert the Jointer tubes into the tall holes of the Power Station carriage (21), with the Jointer's drive shaft pointed toward the Power Station headstock. See Fig.C-1. You may need to adjust the Jointer's tubes to fit them in the tube holes.
- 5. Place the power coupler (71) onto the Jointer's drive shaft hub, as in Fig.C-2.

NOTE

The coupler MUST be on the hub all the way and evenly "squared" on the hub. If it is not, alignment may be off. Also, vibration and premature coupler wear may result.

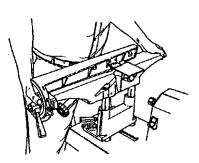


Fig.C-1

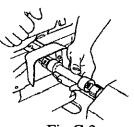
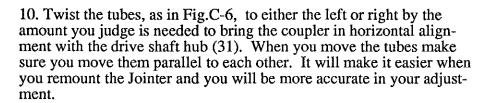


Fig.C-2

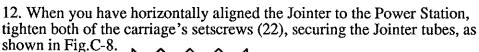
- 6. Unlock the carriage (21) by turning the handle (19) to the left. With your hands placed on the carriage and the Jointer, slide the carriage and Jointer toward the Power Station's drive shaft hub (31) until the coupler almost touches the hub. See Fig.C-3.
- 7. Lock the carriage by turning the handle (19) to the right.

HORIZONTALLY ALIGN THE JOINTER TO THE POWER STATION'S DRIVE SHAFT HUB

- 8. Loosen the two setscrews which lock the Jointer casting to the Jointer's mounting tubes. The setscrews on the carriage should still be loose. See Fig.C-4.
- 9. To align the Jointer horizontally, look to see how much it is out of horizontal alignment. Fig.C-5 shows typical misalignment. Then lift the Jointer from the carriage (21) leaving the Jointer tubes in the carriage tube holes.



11. Remount the Jointer on its tubes. Check the horizontal alignment again. If it is still not aligned, repeat Steps 9 and 10 until you achieve it. Fig.C-7 shows alignment.





It is very important that the two hubs be aligned both horizontally and vertically, so that the coupler does not experience stress caused by misalignment.

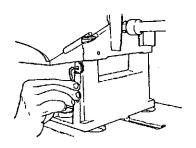
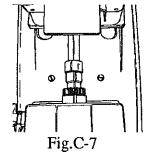


Fig.C-8



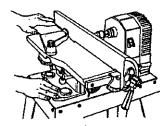


Fig.C-3

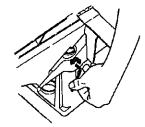


Fig.C-4

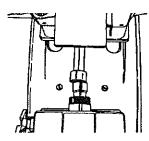


Fig.C-5

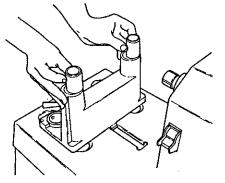


Fig.C-6

VERTICALLY ALIGN THE JOINTER TO THE POWER STATION'S DRIVE SHAFT HUB

13. Fig.C-9 shows typical vertical misalignment. After you have horizontally aligned the Jointer to the drive shaft hub (31), lift the Jointer until the coupler vertically aligns with the drive shaft hub, as in Fig. C-10. When they are vertically aligned, tighten the Jointer tube setscrews. See Fig.C-11. Recheck the vertical alignment. If it is off, re-do it.

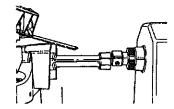
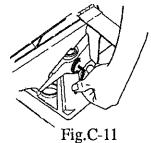
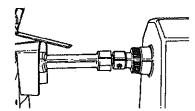


Fig.C-9

PREPARE FOR OPERATIONS

14. Make sure all four tube locking setscrews in both the Jointer and the Power Station carriage are securely tightened.





15. Line up the notches on the drive shaft hub with the ridges inside the coupler. Unlock the carriage, and with one hand on the carriage and another on the Jointer, slide the carriage so that the coupler on the Jointer fits over the drive shaft hub (31).

Fig.C-10

- 16. After you have securely connected the Jointer to the Power Station with the coupler, lock the carriage (21) by turning the handle (19) to the right.
- 17. Plug in the Power Station and insert the safety key. You are now ready to operate the Jointer with the Power Station.

POWER STATION SPEED SETTINGS FOR USING THE JOINTER

Set the Power Station speed setting to 3850 rpm (the fastest speed setting of "9") for all Jointer operations.

NOTE

This speed is somewhat slower than the Jointer speed on the Shopsmith MARK V. This means that users of the Jointer with the MARK V may need to joint stock at a slower feed rate with the Power Station than they are accustomed with the MARK V.

JOINTER OPERATIONS-

WARNING

Read and understand the "Safety" and "Operations" sections of your Shopsmith Jointer Owners Manual before operating the Jointer with the Power Station. Additional information and instructions are provided in the text, Power Tool Woodworking For Everyone. If you have further questions, contact Customer Service as indicated on the back cover of this manual.

SCROLL SAW ALIGNMENT

Tool Needed: 5/32" Allen wrench

PREPARE THE POWER STATION FOR MOUNTING THE SCROLL SAW

- 1. Make sure the Power Station is: set to its slowest speed, turned off, unplugged and the safety key (31) removed from the switch.
- 2. The carriage (21) should be positioned all the way to the left, and locked by moving the handle (19) to the right.

PREPARE THE SCROLL SAW FOR MOUNTING ON THE POWER STATION

- 3. —IF YOU have purchased your Scroll Saw to be operated with the Shopsmith Power Station, read and understand the Scroll Saw Owners Manual, including following the instructions up to the point of mounting it on the Shopsmith MARK V. Then proceed with Step 4 of this section.
- —IF YOU have your Scroll Saw already set up to operate with the Shopsmith MARK V, you are now prepared to mount it on the Power Station. Proceed with Step 4 of this section.
- —IF YOU have your Scroll Saw installed on the Shopsmith Major Accessory Power Stand (513963), you will need to remove the pulley from the power shaft. After removing the pulley, install the drive hub normally used when operating the Scroll Saw with the Shopsmith MARK V. Then proceed with Step 4 of this section.

MOUNT THE SCROLL SAW ON THE POWER STATION

- 4. Insert the Scroll Saw tubes into the tall holes of the Power Station carriage (21), with the Scroll Saw's drive shaft pointed toward the Power Station headstock. See Fig.D-1. You may need to adjust the Scroll Saw's tubes to fit them in the tube holes.
- 5. Place the power coupler (71) onto the Scroll Saw's drive shaft hub, as in Fig.D-2.

NOTE

The coupler MUST be on the hub all the way and evenly "squared" on the hub. If it is not, alignment may be off. Also, vibration and premature coupler wear may occur.

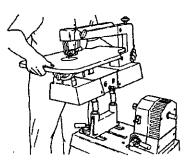


Fig.D-1

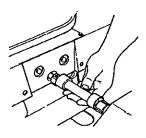
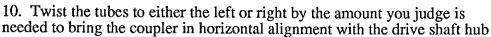


Fig.D-2

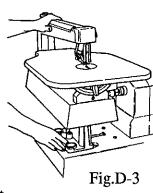
- 6. Unlock the carriage (21) by turning the handle (19) to the left. With your hands placed on the carriage and the Scroll Saw, slide the carriage and Scroll Saw toward the Power Station's drive shaft hub (31) until the coupler almost touches the hub. See Fig.D-3.
- 7. Lock the carriage by turning the handle (19) to the right.

HORIZONTALLY ALIGN THE SCROLL SAW TO THE POWER STATION'S DRIVE SHAFT HUB

- 8. Fig.D-4 shows typical horizontal misalignment. Loosen the two setscrews on the Scroll Saw's tubes, as in Fig.D-5. The setscrews on the carriage's tall tube holes should still be loose, also.
- 9. To align the Scroll Saw horizontally, look to see how much you are out of horizontal alignment. Then lift the Scroll Saw from the carriage (21) leaving the Scroll Saw tubes in the carriage tube holes.



- (31). See Fig.D-6. When you move the tubes make sure you move them parallel to each other. It will make it easier when you reremount the Scroll Saw, and you will be more accurate in your adjustment, as in Fig.D-7.
- 11. Remount the Scroll Saw on its tubes. Check the horizontal alignment again. If it is still not aligned, repeat Steps 9 and 10 until you achieve it.
- 12. When you have horizontally aligned the Scroll Saw to the Power Station, tighten both of the carriage's setscrews (22), securing the Scroll Saw tubes. See Fig.D-8.



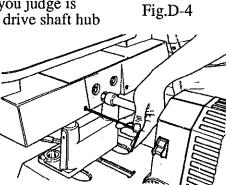


Fig.D-5

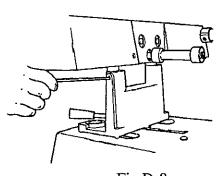


Fig.D-8

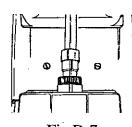


Fig.D-7

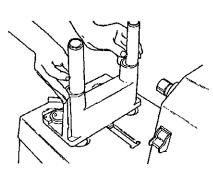


Fig.D-6

VERTICALLY ALIGN THE SCROLL SAW TO THE POWER STA-TION'S DRIVE SHAFT HUB

13. Fig.D-9 shows typical vertical misalignment. After you have horizontally aligned the Scroll Saw to the drive shaft hub (31), lift the Scroll Saw until the coupler vertically aligns with the drive shaft hub. See Fig.D-10. When they are vertically aligned as in Fig D-11, tighten the Scroll Saw tube setscrews. Recheck the vertical alignment. If it is off, re-do it.

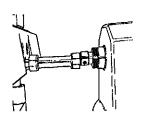


Fig.D-9



It is very important that the two hubs be aligned both horizontally and vertically, so that the coupler does not experience stress caused by misalignment.

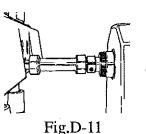
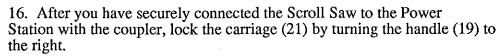


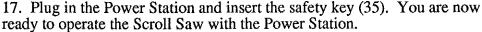
Fig.D-10

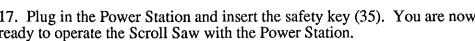
Fig.D-12

PREPARE FOR OPERATIONS

- 14. Make sure all tube locking setscrews on both the Scroll Saw and the Power Station carriage are securely tightened.
- 15. Line up the notches on the drive shaft hub with the ridges inside the coupler. Unlock the carriage, and with one hand on the carriage and another on the Scroll Saw, slide the carriage so that the coupler on the Scroll Saw fits over the drive shaft hub (31). See Fig.D-12.







SCROLL SAW OPERATIONS-

WARNING

Read and understand the "Safety" and "Operations" sections of your Shopsmith Scroll Saw Owners Manual before operating it with the Power Station. Additional information and instructions are provided in the text, Power Tool Woodworking For Everyone. If you have further questions, contact Customer Service as indicated on the back cover of this manual.

POWER STATION SPEED SETTINGS FOR USING THE SCROLL SAW

BLADE	SPEED RANGE		STROKES/MINUTE	USE TO CUT	STOCK THICKNESS	
PART NO.	RPM	P.S. SETTING			RANGE	
555265	850- 3850	1-9	212- 963	Hard & Soft Wood, Plywood, Plastic	1/4" - 2"	
555366	850-2790	1- 7-1/4	212- 698	Hard & Soft Wood, Plywood, Plastic, Paper, Felt, Bone	1/8" 1 1/1/4"	
555262	850-3700	1- 8-3/4	212- 925		1/16" - 1"	
555263	850-3850	1- 9	212- 963	Hard & Soft Wood, Plywood, Plastic,Bone, Horn, Paper	1/32" - 3/4"	
555264	850-3850	1-9	212-963	Hard & Soft Wood, Veneer, Bone, Fiber, Ivory, Plastic, Mother-of-Pearl	1/64" - 1/4"	
505767	850-2530	1- 6-3/4	212- 633	Hard & Soft Wood, Veneer, Bone, Fiber, Ivory, Plastic, Mother-of-Pearl Non-Ferrous Metal	.020" - 1/8"	
505766	850-2200	1-6	212- 550		.015" - 1/8"	
555364 555365 555361 555362 555363	850-1900	1- 5-1/2	212- 475	t ex	.010" - 1/8"	

STRIP SANDER ALIGNMENT

Tool Needed: 5/32" Allen wrench

PREPARE THE STRIP SANDER FOR MOUNTING ON THE POWER STATION

- 1. Make sure the Power Station is: set at its slowest speed, turned off, unplugged and the safety key (35) removed from the switch.
- 2. The carriage (21) should be positioned all the way to the left, and locked by moving the handle (19) to the right.

PREPARE THE STRIP SANDER FOR MOUNTING ON THE POWER **STATION**

- 3. —IF YOU have purchased your Strip Sander to be operated with the Shopsmith Power Station, read and understand the entire Strip Sander Owners Manual, including the instructions up to the point of mounting it on the Shopsmith MARK V. Then proceed with Step 4 of this section.
- —IF YOU have your Strip Sander already set up to operate with the Shopsmith MARK V, you are now prepared to mount it on the Power Station. Proceed with Step 4 of this section.
- —IF YOU have your Strip Sander installed on the Shopsmith Major Accesory Power Stand (513963), you will need to remove the pulley from the drive shaft. After removing the pulley and the pulley guard bracket, install the power shaft hub normally used when operating the Strip Sander with the Shopsmith MARK V. Then proceed with Step 4 of this section.

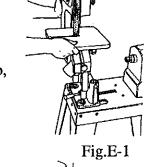
MOUNT THE STRIP SANDER ON THE POWER STATION

- 4. Placing your hands on the table and on the middle of the Strip Sander frame, lift it into the short holes in the Power Station carriage, with the drive shaft pointed toward the Power Station headstock. See Fig.E-1. You may need to adjust the Strip Sander's tubes to fit them in the tube holes.
- 5. Place the power coupler (71) onto the Strip Sander's drive shaft hub, as in Fig.E-2.

NOTE

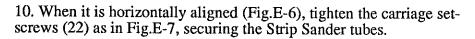
The coupler MUST be on the hub all the way and evenly "squared" on the hub. If it is not, alignment may be off. Also, vibration and premature coupler wear may result.

- 6. Unlock the carriage (21) by turning the handle (19) to the left. With your hands placed on the carriage and Strip Sander, slide the carriage and Strip Sander toward the Power Station's drive shaft hub (31) until the coupler almost touches the hub.
- 7. Lock the carriage by turning the handle (19) to the right.



HORIZONTALLY ALIGN THE STRIP SANDER TO THE POWER STATION'S DRIVE SHAFT HUB

- 8. Loosen the two tube locking setscrews in the Strip Sander's main frame. See Fig.E-3. The setscrews on the carriage's short tube holes should still be loose, also.
- 9. To align the Strip Sander horizontally, look to see how much it is out of horizontal alignment as shown in Fig.E-4. Then twist the tubes to the left or right until the coupler is aligned with the drive shaft hub. See Fig.E-5.



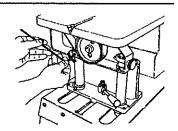
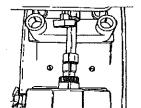


Fig.E-3



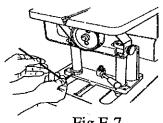


Fig.E-7

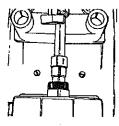


Fig.E-6

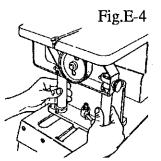
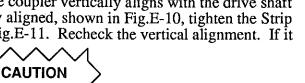


Fig.E-5

VERTICALLY ALIGN THE STRIP SANDER TO THE POWER STA-TION'S DRIVE SHAFT HUB

11. Fig.E-8 shows typical vertical misalignment. After you have horizontally aligned the Strip Sander to the drive shaft hub (31), lift the Strip Sander as in Fig.E-9, until the coupler vertically aligns with the drive shaft hub. When they are vertically aligned, shown in Fig.E-10, tighten the Strip Sander tube setscrews. See Fig.E-11. Recheck the vertical alignment. If it is off, re-do it.



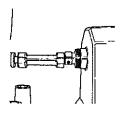


Fig.E-8

It is very important that the two hubs be aligned both horizontally and vertically, so that the coupler does not experience stress caused by misalignment.

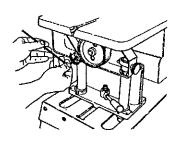


Fig.E-11

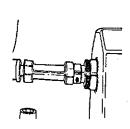


Fig.E-10

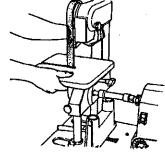


Fig.E-9

PREPARE FOR OPERATIONS

- 12. Make sure all tube locking setscrews on both the Strip Sander and the Power Station carriage are securely tightened.
- 13. Line up the notches on the drive shaft hub with the ridges inside the coupler. Unlock the carriage, and with one hand on the carriage and another on the Strip Sander, slide the carriage so that the coupler on the Strip Sander fits over the drive shaft hub (31). See Fig.E-12.

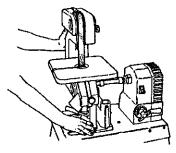


Fig.E-12

- 14. After you have securely connected the Strip Sander to the Power Station with the coupler, lock the carriage (21) by turning the handle (19) to the right.
- 15. Plug in the Power Station and insert the safety key (35). You are now ready to operate the Strip Sander with the Power Station.

POWER STATION SPEED SETTINGS FOR THE STRIP SANDER

The following is a chart of recommended Power Station speed settings to use with the Strip Sander:

GRIT TYPE	SIZE	SPEED		MATERIALS WORKED			
		RPM* P.S. SETTING		Wood			
		-		Hard	Soft	Metals	Plastics*
Garnet	80	850-1150	1- 2-1/2	X	х	х	
	100	850-1450	1-4	х	х	x	
	150	1050-1750	2- 4-3/4	х	Х	x	
	220	1300-2050	3-1/2- 5-3/4	х	х	х	
Aluminum	60	850-1450	1-4	x	х	x	x
Oxide	80	850-1560	1- 4-1/4	x	х	x	x
	150	1050-1750	2- 4-3/4	x	х	х	x
	220	1300-1900	3-1/2- 5-1/4	x	х	. x	. x
	320	1560-2050	4-1/4- 5-3/4	x		x	
	400	1150-1750	2-1/2- 4-3/4	x		х	
Silicone Carbide	600	950-1450	1-1/2-4			х	
Polish**		850-1150	1- 2-3/4			х	X

^{*} Plastics are always worked at 850 rpm, a Power Station setting of "1".

STRIP SANDER OPERATIONS--

WARNING

Read and understand the "Safety" and "Operations" sections of your Shopsmith Strip Sander Owners Manual before operating it with the Power Station. Additional information and instructions are provided in the text, <u>Power Tool Woodworking For Everyone</u>. If you have further questions, contact Customer Service as indicated on the back cover of this manual.

^{**} Use the appropriate polishing compound for the material being worked.

BELT SANDER ALIGNMENT

Tool Needed: 5/32" Allen wrench

PREPARE THE POWER STATION FOR MOUNTING THE BELT SANDER

- 1. Make sure the Power Station is: turned to its slowest speed, turned off, unplugged and the safety key (35) removed from the switch.
- 2. The carriage (21) should be positioned all the way to the left, and locked by moving the handle (19) to the right.

PREPARE THE BELT SANDER FOR MOUNTING ON THE POWER STATION

- 3. —IF YOU have purchased your Belt Sander to be operated with the Shopsmith Power Station, read and understand the entire Belt Sander Owners Manual, including the instructions up to the point of mounting it on the Shopsmith MARK V. Then proceed with Step 4 of this section.
- —IF YOU have your Belt Sander already set up to operate with the Shopsmith MARK V, you are now prepared to mount it on the Power Station. Proceed with Step 4 of this section.
- —IF YOU have your Belt Sander installed on the Shopsmith Major Accessory Power Stand (513963), you will need to remove the pulley from the drive shaft. Also remove the pulley guard bracket, located below the power shaft. After removing the pulley and the pulley guard bracket, install the drive shaft hub normally used when operating the Belt Sander with the Shopsmith MARK V. Then proceed with Step 4 of this section.

MOUNT THE BELT SANDER ON THE POWER STATION

- 4. Insert the Belt Sander mounting tubes into the short holes of the Power Station carriage (21), with the Belt Sander's drive shaft pointed toward the Power Station headstock. You may need to adjust the Belt Sander's tubes to fit them in the tube holes. See Fig.F-1.
- 5. Place the power coupler (71) onto the Belt Sander's drive shaft hub (31), as in Fig.F-2.

Fig.F-1

NOTE

The coupler MUST be on the hub all the way and evenly "squared" on the hub. If it is not, alignment may be off. Also, vibration and premature coupler wear may result.

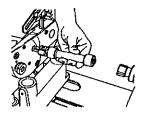


Fig.F-2

- 6. Unlock the carriage (21) by turning the handle (19) to the left. With your hands placed on the carriage and Belt Sander, slide the carriage and Belt Sander toward the Power Station's drive shaft hub (31) until the coupler almost touches the hub. See Fig.F-3.
- 7. Lock the carriage by turning the handle (19) to the right.

HORIZONTALLY ALIGN THE BELT SANDER TO THE POWER STATION'S DRIVE SHAFT HUB

- 8. Loosen the two setscrews in the Belt Sander which lock in the tubes. The setscrews on the carriage should still be loose. See Fig.F-4.
- 9. To align the Belt Sander horizontally, look to see how much it is out of horizontal alignment, like in Fig.F-5. Then twist the tubes to the left or right until the coupler is aligned with the drive shaft hub. See Fig.F-6.
- 10. When you have reached horizontal alignment as in Fig.F-7, tighten the carriage setscrews (22), securing the Belt Sander tubes. See Fig.F-8.

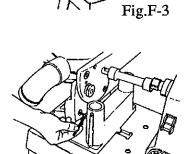
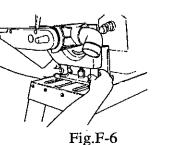


Fig.F-4



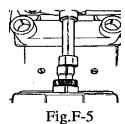




Fig.F-7

11. Fig.F-9 shows typical vertical misalignment. After you have horizontally aligned the Belt Sander to the drive shaft hub (31), lift the Belt Sander, as in Fig.F-10, until the coupler vertically aligns with the drive shaft hub. When they are vertically aligned, as in Fig.F-11, tighten the Belt Sander tube setscrews. See Fig.F-12. Recheck the vertical alignment. If it is off, re-do it.

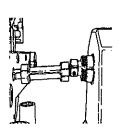


Fig.F-9

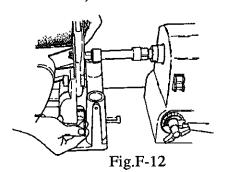


Fig.F-8

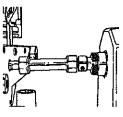


Fig.F-11



Fig.F-10



It is very important that the two hubs be aligned both horizontally and vertically so that the coupler does not experience stress caused by misalignment.

PREPARE FOR OPERATIONS

- 12. Make sure all tube locking setscrews on both the Belt Sander and the Power Station carriage are securely tightened.
- 13. Line up the notches on the drive shaft hub with the ridges inside the coupler. Unlock the carriage, and with one hand on the carriage and another on the Belt Sander, slide the carriage so that the coupler on the Belt Sander fits over the drive shaft hub (31). See Fig.F-13.

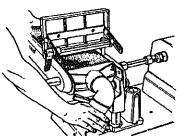


Fig.F-13

- 14. After you have securely connected the Belt Sander to the Power Station with the coupler, lock the carriage (21) by turning the handle (19) to the right.
- 15. Plug in the Power Station and insert the safety key (35). You are now ready to operate the Belt Sander with the Power Station

POWER STATION SPEED SETTINGS FOR USING THE BELT SANDER

The following is a chart of recommended Power Station speed settings to use with the Belt Sander:

GRIT	HAR	DWOOD	SOFTWOOD		
	RPM	P.S. SETTING	RPM	P.S. SETTING	
Coarse Medium Fine	1560 1750 1900	4-1/4 4-3/4 5-1/4	1750 1900 2050	4-3/4 5-1/4 5-3/4	
		GRINDING META	.L	Control of the Control of the Contr	
Fine	850	1		4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	

BELT SANDER OPERATIONS-

WARNING

Read and understand the "Safety" and "Operations" sections of your Shopsmith Belt Sander Owners Manual before operating it with the Power Station. Additional information and instructions are provided in the text, <u>Power Tool Woodworking For Everyone</u>. If you have further questions, contact Customer Service as indicated on the back cover of this manual.

JIGSAW ALIGNMENT

Tool Needed: 5/32" Allen wrench

PREPARE THE POWER STATION FOR MOUNTING THE JIGSAW

- 1. Make sure the Power Station is: turned to its slowest speed, turned off, unplugged and the safety key (35) is removed from the switch.
- 2. The carriage (21) should be positioned all the way to the left, and locked by moving the handle (19) to the right.

PREPARE THE JIGSAW FOR MOUNTING ON THE POWER STATION

3. —<u>IF YOU</u> have your Jigsaw already set up to operate with the Shopsmith MARK V, you are now prepared to mount it on the Power Station. Proceed with Step 4 of this section.

—<u>IF YOU</u> have your Jigsaw installed on the Shopsmith Major Accesory Power Stand (513963), you will need to remove the pulley from the power shaft. Also remove the pulley guard bracket, located near the power shaft. After removing the pulley and the pulley guard bracket, install the power shaft hub normally used when operating the Jigsaw with the Shopsmith MARK V. Then proceed with Step 4 of this section.

MOUNT THE JIGSAW ON THE POWER STATION

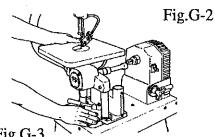
- 4. Insert the Jigsaw into the short holes of the Power Station carriage (21), with the Jigsaw's drive shaft pointed toward the Power Station headstock. See Fig G-1. You may need to adjust the Jigsaw's tubes to fit them into the holes.
- 5. Place the power coupler (71) onto the Jigsaw's drive shaft hub, as in Fig.G-2.

The coupler MUST be on the hub all the way and evenly "squared" on the hub. If it is not, alignment may be off. Also, vibration and premature coupler wear may result.

- 6. Unlock the carriage (21) by turning the handle (19) to the left. With your hands placed on the carriage and Jigsaw, slide the carriage and Jigsaw toward the Power Station's drive shaft hub (31) until the coupler almost touches the hub. See Fig.G-3.
- 7. Lock the carriage by turning the handle (19) to the right.



Fig.G-1



HORIZONTALLY ALIGN THE JIGSAW TO THE POWER STATION'S DRIVE SHAFT HUB

8. Loosen the two setscrews holding the Jigsaw's eccentric tubes. (If your Jigsaw does not have eccentric tubes, you must buy them in order to use your Jigsaw with the Power Station. See the back cover of this manual for order information.) See Fig.G-4. The setscrews on the carriage should still be loose, also.

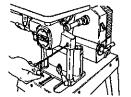
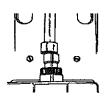


Fig.G-4

9. To align the Jigsaw horizontally, look to see how much you are out of horizontal alignment (as in Fig.G-5). Then twist the tubes to the left or right until the coupler is aligned with the drive shaft hub. See Fig.G-6.



10. When you have reached horizontal alignment shown in Fig.G-7, tighten the carriage setscrews (22), securing the Jigsaw tubes. See Fig.G-8.

Fig.G-5

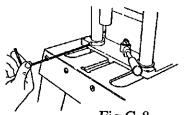


Fig.G-7

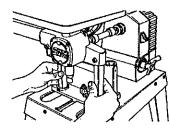
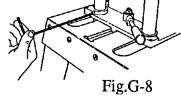


Fig.G-6



off, re-do it.



11. Fig.G-9 shows typical vertical misalignment. After you have horizontally aligned the Jigsaw to the drive shaft hub (31), lift the Jigsaw (as in Fig.G-10) until the coupler vertically aligns with the drive shaft hub, shown in Fig.G-11. When they are vertically aligned, tighten the Jig Saw tube setscrews. See Fig.G-12. Recheck the vertical alignment. If it is

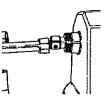


Fig.G-9



It is very important that the two hubs be aligned both horizontally and vertically, so that the coupler does not experience stress caused by misalignment.

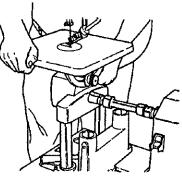
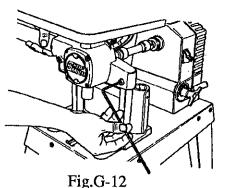


Fig.G-10



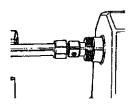
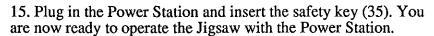


Fig.G-11

PREPARE FOR OPERATIONS

- 12. Make sure all tube locking setscrews on both the Jigsaw and the Power Station carriage are securely tightened.
- 13. Unlock the carriage. Then line up the notches on the drive shaft hub with the ridges inside the coupler. With one hand on the carriage and another on the Jigsaw, slide the carriage so that the coupler on the Jigsaw fits over the drive shaft hub (31). See Fig.G-13.
- 14, After you have securely connected the Jigsaw to the Power Station with the coupler, lock the carriage (21) by turning the handle (19) to the right.



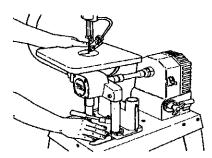


Fig.G-13

POWER STATION SPEED SETTINGS FOR USING THE JIGSAW

The following is a chart of recommended Power Station speed settings to use with the Jigsaw:

OPERATION	HARDWOOD		SOFTWOOD	
	RPM	P.S. SETTING	RPM	P.S. SETTING
Heavy Duty	1150	2-1/2	1150	2-1/2
General Purpose	1050	2	1050	2
Light Duty	950	1-1/2	950	1-1/2
Sabre Saw (all)	1150	2-1/2	1150	2-1/2
Pattern Files (all)	850	1	850	1
Jewelers Blades	850	1	850	1

JIGSAW OPERATIONS-

WARNING

Read and understand the "Safety" and "Operations" sections of your Shopsmith Jigsaw Owners Manual before operating it with the Power Station. Additional information and instructions are provided in the text, <u>Power Tool Woodworking For Everyone</u>. If you have further questions, contact Customer Service as indicated on the back cover of this manual.

DISC SANDER

INSTALLATION

- 1. Turn the speed dial to its slowest setting. Turn off and unplug the Power Station. Remove the safety key (35) from the switch.
- 2. Slide the carriage (21) to the left and lock it.
- 3. Make sure the outer shaft cover (40) is installed over the outer shaft of the Power Station. See Fig.H-1.
- 4. Remove the drive shaft hub from the drive shaft. See Fig.H-2.
- 5. Mount the Disc Sander Dust Chute (optional) to the Power Station. See Fig.H-3. Adjust the chute as far open as possible, and lock it in position.

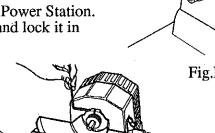


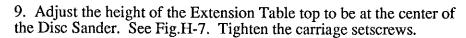
Fig.H-2

Fig.H-1

WARNING

If you are going to grind or sharpen metal, do not install the Disc Sander Dust Chute.

- 6. Mount the Disc Sander. See Fig.H-4.
- 7. Mount the Extension Table into the carriage's tall tube holes. See Fig.H-5.
- 8. Unlock the carriage and slide it and the Extension Table to within 1/16" of the Disc Sander. See Fig.H-6.



- 10. Attach your Dust Collector hose if you are sanding wood. See Fig.H-8.
- 11. Plug in the Power Station and insert the safety key (35). You are now ready to disc sand with the Power Station.

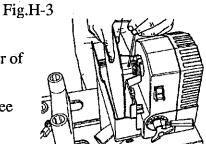


Fig.H-4

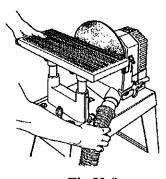


Fig.H-8

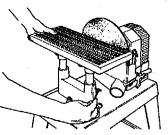


Fig.H-7

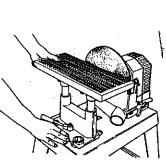


Fig.H-6



WARNING

Do NOT connect dust collection hoses nor operate a dust collection system when sharpening or grinding metal with the Power Station and any accessories.

POWER STATION SPEED SETTINGS FOR USING THE DISC SANDER

The following is a chart of recommended Power Station speed settings to use with the Disc Sander:

GRIT/OPERATION	HARDWOOD		SOFTWOOD	
	RPM	P.S. SETTING	RPM	P.S. SETTING
Coarse	1050	2	1150	2-1/2
Medium	1300	3-1/2	1450	4
Fine	1450	4	1560	4-1/4
10.00	G i	RINDING METAL		
Fine	850	. 1		

DISC SANDER OPERATIONS--

WARNING

Read and understand your Shopsmith Disc Sander product literature before operating the Disc Sander with the Power Station.

You can also use the Shopsmith Sharpening Guide with the Disc Sander mounted on the Power Station (see Fig.H-9). Consult the Sharpening Guide Owners Manual before operating. Use Speed Settings 1- 2.

Fig.H-9

DRUM SANDER

MOUNTED ON THE DRIVE SHAFT

- 1. Turn off and unplug the Power Station, then remove the safety key (35).
- 2. Remove the drive shaft hub (31) from the drive shaft. See Fig.H-10.
- 3. Install the Drum Sander on the drive shaft. See Fig.H-11. Use Speed Settings 5-5-1/2.

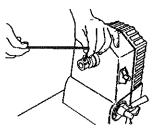


Fig.H-10

WARNING

For operating the Drum Sander, consult the product literature which came with your Drum Sander.

MOUNTED ON THE OUTER DRIVE SHAFT

- 1. Turn off and unplug the Power Station, then remove the safety key (35) from the switch.
- 2. Remove the outer shaft cover (40) from the outer shaft. See Fig.H-12.
- 3. Install the Drum Sander on the outer shaft, as shown in Fig.H-13. Use Speed Settings 5-5-1/2.

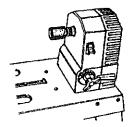


Fig.H-11

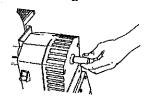


Fig.H-12

DRUM SANDER MOUNTED WITH THE DISC SANDER

- 1. Turn off and unplug the Power Station, then remove the safety key(35).
- 2. Install the Drum Sander on the outer shaft, as described above. See Fig.H-13.
- 3. Install the Disc Sander, as described in the Disc Sander section (the dust chute is optional). See Fig.H-14. Use Speed Settings 2-4.

FOR OPERATING THE DRUM AND DISC SANDER, CONSULT THE PRODUCT LITERATURE WHICH CAME WITH BOTH THE DRUM SANDER AND THE DISC SANDER.

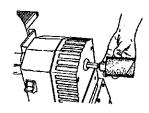


Fig.H-13

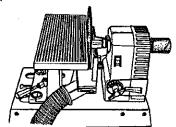


Fig.H-14

WARNING

Never exceed the maximum recommended speed of the slowest accessory when you use two accessories at the same time.

FLUTTER SHEET SANDER

INSTALLED ON OUTER DRIVE SHAFT

- 1. Turn off and unplug the Power Station, then remove the safety key (35) from the switch.
- 2. Remove the outer shaft cover (40) from the outer shaft. See Fig.H-15.
- 3. Install the drill chuck on the outer shaft, as in Fig.H-16. Securely tighten the setscrew.
- 4. Install the Flutter Sheet Sander in the drill chuck and tighten with the chuck key. See Fig.H-17 and Fig.H-18. Use Speed Settings 5-5-1/2.

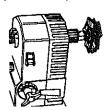


Fig.H-18

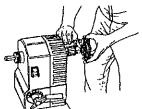


Fig.H-17

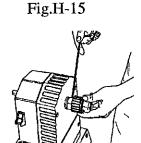


Fig.H-16

INSTALLED ON INNER DRIVE SHAFT

- 1. Turn off and unplug the Power Station then remove the safety key (35) from the switch.
- 2. Make sure the outer shaft cover (40) is installed over the outer drive shaft.
- 3. Remove the drive shaft hub (31) from the inner drive shaft.
- 4. Install the drill chuck on the drive shaft.
- 5. Install the Flutter Sheet Sander in the drill chuck and tighten with the chuck key. See Fig.H-19. Use Speed Settings 5-5-1/2.

FLUTTER SHEET SANDER MOUNTED WITH EITHER THE DISC SANDER OR THE DRUM SANDER (See Fig.H-20.)

- 1. Turn off and unplug the Power Station, then remove the safety key (35) from the switch.
- 2. Remove the outer shaft cover (40) from the outer drive shaft.
- 3. Install the Flutter Sheet, as described above.
- 4. Install the Disc Sander or the Drum Sander, according to each's instructions on pages 36 and 38 of this manual. Use Speed Settings 2-4 with the Disc Sander, and 5-5-1/2 with the Drum Sander.

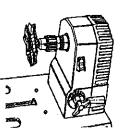
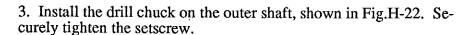


Fig.H-19

FLEXIBLE SHAFT

- 1. Turn off and unplug the Power Station, then remove the safety key (35) from the switch.
- 2. Remove the outer shaft cover (40) from the outer drive shaft. See Fig.H-21.



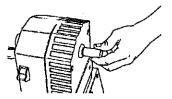


Fig.H-21

4. Install the Flexible Shaft in the drill chuck and tighten with the chuck key. See Fig.H-23.

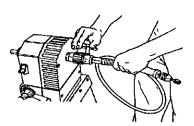


Fig.H-23

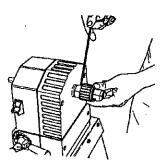


Fig.H-22



Because of the directional of rotation of cutting tools, use the Flexible Shaft on the Outer Drive Shaft ONLY.

WARNING

For operating the Flexible Shaft consult the product literature which came with it.

For <u>semi-portable drilling</u>, use Speed Settings <u>4- 5-3/4</u>.

For power carving with rasps and files, use Speed Settings 8-9.

For <u>drum sanding</u>, use Speed Settings <u>5- 5-1/2</u>.

POWER STATION MAINTENANCE SCHEDULE

Every 10 hours- - or monthly	Clean thoroughly. Also wax the carriage holes and the carriage glide surface.
Every 50 hours- - or bi-yearly	Check that the setscrews of upper and lower pulleys are securely tightened
Lubrication	 No additional lubrication is required, because the bearings are permanently lubricated throughout the machine.

POWER STATION TROUBLESHOOTING GUIDE

	DOCUMENT OF THE PROPERTY OF TH				
	PROBLEM	POSSIBLE CAUSE(S)	SOLUTION		
	•Excessive vibration/noise	•Loose stand, guard or motor mounting hardware	•Check for & tighten all loose hardware		
Power Plant Problems	 Metal to metal scraping noise at low speed 	Variator is rubbing against edge of of opening in base	Setscrew on pulley has loosened, allowing pulley to move variator against opening in stand		
	•Accessory running too fast/ slow	•Speed change lever out of calibration	•Recalibrate to "1" Speed Setting at slowest speed.		
	•Loss of power at high speed	•Worn belts •Insufficient belt tension •Loose hub stscrews	•Replace both drive belts •Lower motor to increase belt tension •Tighten hub setscrew		
	•Loss of power at low speed	•Too much belt tension •Loose hub setscrews	•Raise motor to lessen belt tension •Tighten hub setscrew		
Po	•Won't start	•Wire disconnected at switch •Too much belt tension •Extension cord gaugetoo small	Reconnect wires to switch Raise motor Use larger gauge wire in extension cord		
		Blown fuse/circuit breaker Unplugged from outlet	•Replace/reset fuse or circuit breaker •Plug unit into electrical outlet		
Carriage Problems	•Carriage difficult to slide	•Too much friction between carriage & top of base	•Clean & wax glide surfaces & base top		
	Carriage moves during operations	Carriage lock adjustment nut is too loose Carriage is not locked	Tighten carriage lock adjustment nut by 1/8 turn Lock carriage by moving handle to right		
ပြီ	•Major Accessory won't mount in carriage holes	Setscrew in hole too far Mounting posts out of alignment Mounting holes are sticky	Back out carriage setscrews Realign Major Accessory Clean & wax holes in carriage		



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.

30-Day Money-Back Guarantee

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.

Full One-Year Warranty

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.

Personal injury or property damage may result if equipment is interchanged with non-Shopsmith brand equipment. Therefore, Shopsmith, Inc. disclaims all liability and excludes all warranties of merchantability and fitness for a particular purpose if this equipment is used with a non-Shopsmith brand unit.

Shopsmith Inc.

3931 Image Drive Dayton, Ohio 45414-2591 THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. IN NO EVENT SHALL SHOPSMITH BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES. Some states do not allow the exclusion or limitation of consequential or incidental damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Lifetime Reconditioning Program

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.

Warranteed 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 numbers during normal business hours.

For service call:

1-800-762-7555 (Continental U.S., Hawaii, Alaska, Puerto Rico and U.S. Virgin Islands)

1-800-268-3998 (Canada) **1-513-898-6070** (Dayton, OH area)

To place an order call:

1-800-543-7586 (Continental U.S., Hawaii, Alaska, Puerto Rico and U.S. Virgin Islands)

1-800-268-3998 (Canada) **1-513-898-6070** (Dayton, OH area)

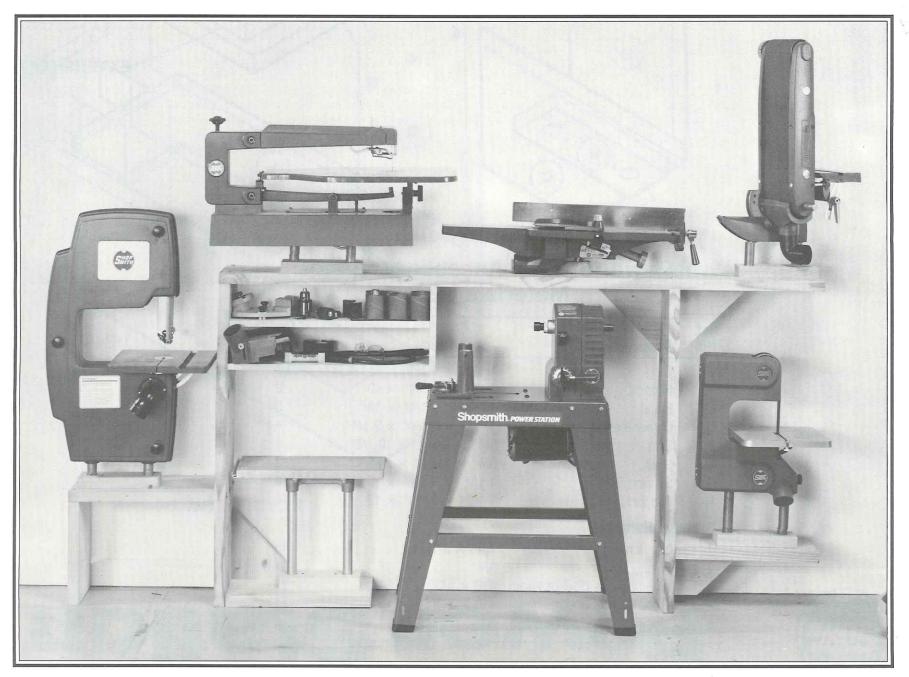
When you write or call, tell us your **Customer Number** and the **Date Code** of your equipment. (Your customer number appears on the invoice and the mailing labels of the literature we send you. The date code is stamped on the equipment.) Please write the numbers in the space provided here.

Customer No		
Date Code	•	

1-4-93



POWER STATION® ACCESSORY STAND





SHOPSMITH POWER STATION® ACCESSORY STAND

INTRODUCTION

An accessory stand is very useful in keeping a neat and safe shop. So we've provided this design suggestion for you.

Be a safe woodworker; do not wear rings, watches, or long sleeved shirts and always wear your safety glasses when woodworking. Review and understand your owner's manuals for your power equipment prior to beginning any major project like this. Be sure to understand and review set-up, safety, maintenance, and operation procedures.

1. SELECTING THE WOOD

When selecting the wood to build this Power Station Accessory Stand, be sure to check the $2 \times 10 s$ carefully for any imperfections that could either hinder the assembly or show once the Power Station Accessory Stand is completed. Look for knots, warps and twists. We recommend <u>not</u> using boards with these defects because of the large amount of waste generated when the boards are sized. See the Lumber List for sizes and quantities of lumber needed.

2. LAYING OUT THE WOOD

Using the Cutting Diagram as a guide, lay out and mark all pieces needed.

NOTE: Write all identifications on small strips of masking tape on the various pieces. This eliminates having to erase and sand the marks prior to completion.

Since we are recommending construction grade lumber which you've personally selected, we will not recommend approximate sizing, jointing the edges or planing the surfaces as we would in most furniture projects.

3. CUTTING TO EXACT LENGTH

Crosscut all pieces to their exact lengths. Refer to the Bill of Materials or the Cutting Diagram for exact lengths. Usually the Cutting Diagram will show approximate lengths, but personally selected construction grade lumber should only require working from a square end to build a shop stand.

TIP: Be certain to square all ends.

4. CUTTING THE CORNER BRACES

Crosscut the four braces (D) at 45 degree angles. (Both right angles must be of equal length.)

5. ASSEMBLING THE POWER STATION ACCESSORY STAND

- **a.** Position and bar clamp the left support (B) flush under the left end of the top (A). Next, using a hand drill with a 1/4" brad point bit, drill three holes evenly spaced across the top (A) 3/4" in from the edge. Then position and clamp the right support (B) 18" from the right end of the top (A) and again drill three evenly spaced 1/4" holes across the top and into the right support end (B). Insert and tighten a 1/4" x 3-1/2" lag screw and washer in each drilled hole.
- **b.** Position and clamp one accessory stand (C) on the outside of the left support (B) 13" from the bottom. Drill three holes across the support into the accessory stand end. Insert and tighten three 1/4" x 3-1/2" lag screws and washers. Position the support leg (H) flush to the end of the bandsaw support stand. Drill three holes across the support into the leg 3/4" from the end of the support stand (C). Insert and tighten three 1/4" x 3-1/2" lag screws and washers.
- **c.** Repeat step (b) for the second accessory stand (C) 6-3/4" from the bottom outside on the right support. Insert and tighten 1/4" x 3-1/2" lag screws and washers.
- **d.** The third accessory stand (C) is mounted to the inside of the left support on the floor. Drill three evenly spaced 1/4" holes through the support, 3/4" up from the floor, into the accessory stand (C).
- e. Position one corner block (D) in the top right inside corner flush to the back edge. Then, using a hand drill and a #10 tapered countersink drill bit, drill three evenly spaced holes through the top (A) and through the right support (B) into the corner block. Insert and tighten $\#10 \times 3$ " long wood screws.
- **f.** Using a hand drill with a #10 tapered countersink drill bit, drill three evenly spaced holes through the top side of the belt sander and strip sander accessory stands and on the inside of the supports into the corner blocks (D). (These corner blocks are to be centered in the width of each accessory stand.)

NOTE: The right side corner block should be cut off flush to the bottom of the right support (flush to the floor) before attaching to

the support or the stand. Refer to the Exploded Drawing for the right bottom corner block. Insert and tighten $\#10 \times 3$ " wood screws in each drilled hole.

g. Place the fourth corner block above the third accessory stand and flush with the back edge of the left support (B) and accessory stand (C). Drill and fasten as in step (e) above. (The two inside corner blocks against the back edges of the supports are used when anchoring the complete accessory stand to the shop wall.)

6. ASSEMBLING THE ACCESSORY SHELF

- **a.** Position and clamp the bottom shelf (F) flush to the inside surface of the side (E).
- **b.** Using a hand drill, with a #8 tapered countersink bit, drill three holes, evenly spaced through the side (E) into the shelf (F). Next, insert and tighten three #8 x 1-1/4" wood screws. Then position, clamp and drill three holes through the side (E) into the center shelf (F) 4-3/4" from the bottom shelf. Insert and tighten #8 x 1-1/4" wood screws. This is the accessory shelf subassembly.

7. MOUNTING THE ACCESSORY SHELF

Position and clamp the accessory shelf subassembly to the top left inside support corner. Drill three holes with a #10 tapered countersink drill bit, through the top (A) into the accessory shelf side (E), and three holes through the support (B) into each of the accessory shelves (F). Then insert and tighten $\#10 \times 2-1/2 \#$ long wood screws.

8. MAKING AND MOUNTING THE SUPPORT BASES

- **a.** The most durable mounting bases are Shopsmith Accessory Mounting Bases, Item #505655. We recommend one base for each accessory and for the extension table base on the power station stand. These bases mount to the accessory stands (C) and top (A) with 1/4" x 3" square head bolts, washers and nuts.
- **b.** Since this is a woodworking plan, you may choose to build temporary bases for your accessories out of 2×4 stock. These will be suitable until you are certain you like the accessory locations, either where we show them or where you choose. If you wish to build temporary support bases:
 - 1) Cut six support bases out of 2 x 4 material, each 10" long (one for each special purpose tool, plus the extension table).
 - 2) Use the base posts on one of your accessories to make a template for drilling if you wish. Using a vertical drill press,

with a 1-1/4" forstner or spade bit, drill two holes, exactly 7" apart, (center to center) in the middle of six support bases 1-1/8" from either edge.

c. Using the exploded drawing as a guide, position and mount each mounting base, with two $\#10 \times 2-1/2$ " wood screws, onto the appropriate accessory stands.

The bandsaw base is 1/2" in from the left edge of the stand (C) and inset 1" from the front edge.

The scroll saw base is 7-1/2" in from the left edge of the top (A) and inset 1/4" from the front edge.

The jointer base is 36" in from the left edge of the top (A) and inset 5" from the front edge.

The belt sander base is 1/4" in from the right edge of the top (A) and inset 2" from the front edge.

The strip sander base is 2-1/2" in from the right edge of the stand (C) and inset 1-1/2" in from the front edge.

The extension table base is 1-12" in from the right end of the stand (C) and 2-1/4" from the back edge.

9. SECURING THE COMPLETED ACCESSORY STAND TO THE WALL

To keep the Power Station Accessory Stand from falling on you as you lift a tool from one of the bases, we highly recommend bolting the completed accessory stand to your shop wall. Care should be taken to hit a wall stud with two screws through the block installed in Step 5(e). Install two screws through the block installed in Step 5(g) also, to anchor the left side of the stand. If any of the screws miss wall studs, you should install mollys or anchors in the wall to hold the screws. Again, hitting the wall stud with screws through the upper right block installed in Step 5(e) is critical for your safety.

CONCLUSION

You have now built a very useful support stand for your Power Station accessories. Most of the accessory positions are determined by shape or weight. However, you may decide to move the positioning as you find most useful. Enjoy your Power Station and your Accessory Stand.

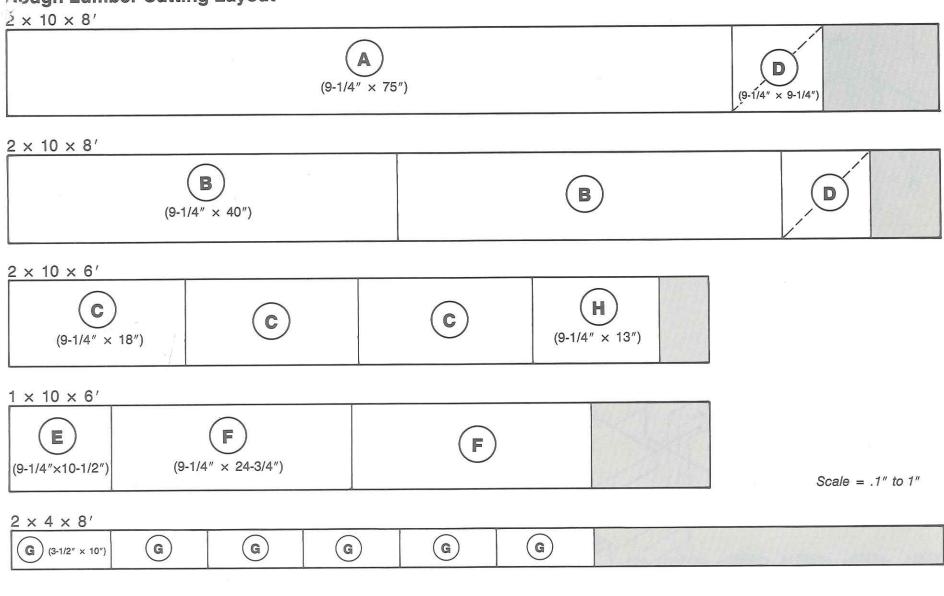
Be a Safe Woodworker. Happy Woodworking!!

Power Station[®] Accessory Stand



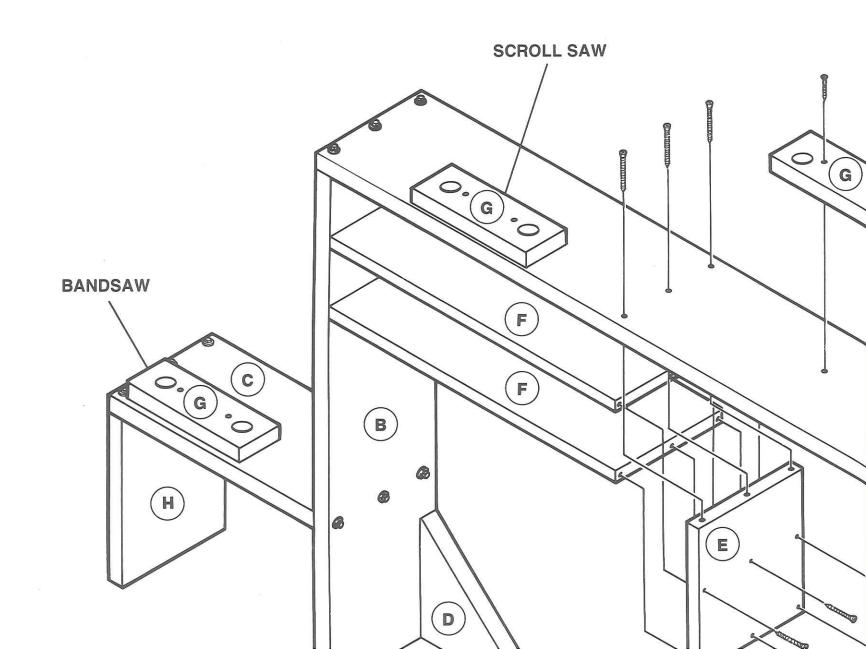
Rough Lumber Cutting Layout

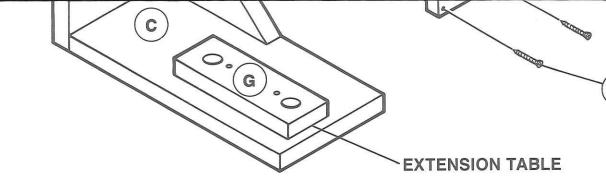
Usable Stock Waste Stock





Power Station[®] A

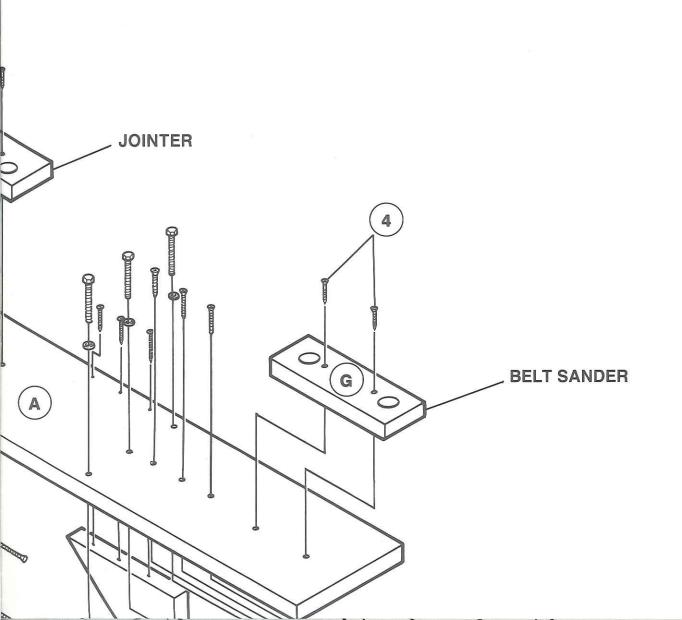




Power Station Accessory Stand Materials List

Ref. No.	Description	Size	Qty. Used
Α	Тор	1-1/2" × 9-1/4" × 75"	1
В	Support	$1-1/2" \times 9-1/4" \times 40"$	2
С	Stand	$1-1/2'' \times 9-1/4'' \times 18''$	3
D	Corner Block	$1-1/2" \times 9-1/4" \times 9-1/4"$	4
Ε	Side	$3/4" \times 9-1/4" \times 10-1/2"$	1
	Shelf	$3/4'' \times 9-1/4'' \times 24-3/4''$	2
F G	Support Base	$1-1/2" \times 3-1/2" \times 10"$	6
Н	Support Leg	$1-1/2" \times 9-1/4" \times 13"$	1
Stan	dard Hardware		
1	Lag Screws	$1/4'' \times 3-1/2''$	18
2	Washers	1/4"	18
3	Wood Screws (Phillips Head)	#10 × 3"	24
4	Wood Screws (Phillips Head)		21
5	Wood Screws (Phillips Head)		6

ccessory Stand



LUMBER LIST

- 2 2" x 10" x 8' 1 2" x 10" x 6' 1 1" x 10" x 6'
- 1 2" x 4" x 8'

SHOPPING LIST

- 15 1/4" x 3-1/2" lag screws
- 15 1/4" washers
- 24 #10 x 3" wood screws (Phillips head)
- 21 #10 x 2-1/2" wood screws (Phillips head)
- 6 #8 x 1-1/4" wood screws (Phillips head)

If you use MARK V Accessory Mounts:

- 5 #505655 and
- 20 1/4" x 3" square head bolts, washers and nuts

TOOL LIST

Shopsmith MARK V
Hand Drill
1/4" Brad Point Drill Bit
Phillips Head Screwdriver
1-1/4" forstner bit or spade bit
Crescent Wrench
Square
#10 Tapered Countersink Drill Bit
#8 Tapered Countersink Drill Bit

