Operating Instructions and Parts Manual
Oscillating Belt & Spindle Sander
Model: JWOES-4

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Part No. JT1-3605
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1.0 Important Safety Instructions

⚠WARNING – To reduce risk of injury:

1. Read and understand the entire owner's manual before attempting assembly or operation.
2. Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
3. Replace the warning labels if they become obscured or removed.
4. This sander is designed and intended for use only by properly trained and experienced personnel. If you are not familiar with the proper and safe operation of an oscillating belt and spindle sander, do not use it until properly trained.
5. Do not use this sander for anything other than its intended use. If used for other purposes, JET disclaims any express or implied warranty and holds itself harmless from any injury that may result from that use.
6. Always wear ANSI Z87.1-approved safety glasses or a face shield while using this sander. (Everyday eyeglasses only have impact-resistant lenses; they are *not* safety glasses.)
7. Before operating this machine, remove neckties, rings, watches, and other jewelry, and roll up sleeves past the elbows. Do not wear loose clothing. Confine long hair. Non-slip footwear or anti-skid floor strips are recommended. Do not wear gloves.
8. Wear ear protectors (plugs or muffs) during extended periods of operation.
9. Do not operate this machine while tired or under the influence of drugs, alcohol, or any medication.
10. Make certain the switch is in the **OFF** position before connecting the machine to the power supply.
11. Make certain the machine is properly grounded.
12. Make all machine adjustments or maintenance with the machine unplugged from the power source.
13. Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.
14. Keep safety guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately.
15. Maintain labels and nameplates on the tool. These carry important safety information. Replace any unreadable or missing labels.
16. Use sander on horizontal surfaces only. Operating the sander on non-horizontal surfaces may cause damage to the motor or personal injury.
17. Check damaged parts. Before further use of the machine, examine a guard or other part that is damaged. Determine if it will operate properly. If not, repair or replace before operating the machine.
18. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. Repair or properly adjust any condition found.
19. Provide for adequate space surrounding the work area and non-glare, overhead lighting.
20. Keep the floor around the machine clean and free of scrap material, oil, and grease.
21. Don't use in a dangerous environment. Don't use power tools in damp or wet locations or expose them to rain. Keep the work area well-lit.
22. Keep visitors a safe distance from the work area. **Keep children away.**
23. Make your workshop child-proof with padlocks, master switches, or by removing starter keys.
24. Keep the sander's power cord away from heat, oil, and sharp edges. Have an electrician replace or repair a damaged or worn power cord immediately.
25. This sander is designed to sand only wood or wood-like products. Sanding or grinding other materials could result in fire, injury, or damage to the sander and workpiece.
26. Only sand workpieces that are sturdy enough to withstand the force of the sanding belts and sleeves.
27. Inspect the workpiece for imperfections, nails, staples, etc., before sanding. Never sand a workpiece with questionable imperfections or embedded foreign objects.
28. Make sure the sanding belt is installed in the correct direction. Directional arrows are printed on the back of each belt. Feed workpieces against the direction of the rotation for maximum safety.
29. Do not use sanding belts or sleeves that are damaged, torn, or loose. Use only the correct size sanding belts and sleeves.
30. Always use the table insert that fits the diameter of the sanding drum to minimize the gap and reduce the risk of injury.
31. Before operating the sander, be sure the sanding drum is in good condition with no tears or holes.
32. Always hold the workpiece firmly on the table when sanding.
33. Sand only one workpiece at a time.
34. Allow the sanding belt or sanding drum to reach full speed before sanding. Do not forcefully jam a workpiece into the sanding surface. Firmly hold the workpiece and lightly ease it against the sanding belt or spindle.
35. When sanding a large workpiece, provide additional support. Do not sand with the workpiece unsupported.
36. Never perform layout, assembly, or set-up work on the table while the sander is on.
37. Give your work your undivided attention. Looking around, carrying on a conversation, and "horse-play" are careless acts that can result in serious injury.

38. Maintain a balanced stance at all times so that you do not fall or lean against the sanding belt, sanding drum, or other moving parts. Do not overreach or use excessive force when operating any machine.
39. Keep fingers and hands away from the sanding belt and sanding drum while in operation. Avoid getting fingers too close to the sanding surface.
40. Use the right tool for the job. Do not force this sander to do a job for which it was not designed. The right tool will do the job better and more safely.
41. Use recommended accessories. Improper accessories may be hazardous.
42. Maintain tools with care. Keep the sander clean for the best and safest performance. Follow instructions for changing accessories.
43. Disconnect the machine from electrical power before servicing or when changing accessories, such as spindles, sanding belts, and sanding sleeves.
44. Turn off the machine before cleaning. Use a brush or compressed air to remove sawdust or debris — do not use your bare hands.
45. Do not stand on the machine. Serious injury could occur if the machine tips over.
46. Never leave the machine running unattended. Turn the power off and do not leave the machine until it comes to a complete stop.
47. Remove loose items and unnecessary work pieces from the area before starting the machine.
48. Never use solvents to clean plastic parts. Solvents could dissolve or damage the material. Use only a soft, damp cloth to clean plastic parts.

⚠ **WARNING:** This product can expose you to chemicals including titanium dioxide which is known to the State of California to cause cancer, and lead which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to http://www.p65warnings.ca.gov.

⚠ **WARNING:** Drilling, sawing, sanding or machining wood products generates wood dust and other substances known to the State of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask or other safeguards for personal protection.

Wood products emit chemicals known to the State of California to cause birth defects or other reproductive harm. For more information, go to http://www.p65warnings.ca.gov/wood.

Familiarize yourself with the following safety notices used in this manual:

⚠CAUTION This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

⚠WARNING This means that if precautions are not heeded, it may result in serious, or possibly even fatal, injury.

2.0 About this Manual

This manual covers the safe operation and maintenance procedures for the JET JWOES-4 Oscillating Belt & Spindle Sander. This manual contains instructions for installation, safety precautions, general operating procedures, maintenance, and a parts breakdown. Your machine has been designed and constructed to provide consistent, long-term operation if used in accordance with the instructions set forth in this document.

If you have any questions or comments, please contact your local supplier or JET. JET can also be reached at our website: www.jettools.com.

Retain this manual for future reference. If the machine transfers ownership, the manual should accompany it.

⚠WARNING **Read and understand the entire contents of this manual before attempting assembly or operation. Failure to comply may cause serious injury.**

Register your product using the mail-in card provided or register online: www.jettools.com/product-registration

To quickly reach the product registration webpage, scan the QR code below.

3.0 **Table of Contents**

4.0 **Specifications**

Model Number	JWOES-4
Stock Number	JT1-3605

Motor and Electrical:

Motor	1/2 HP, 120V, 60Hz, 4A
Motor Speed	10,000 RPM, Class B
Listed FLA (full load amps)	4A
Running Amps (no load)	1.2 A
Recommended Circuit and Fuse/Breaker Size	10A
Power Cable	UL SJT 18AWG×3C Length:112” (2850mm)
Motor Power Cable	UL 18AWG

General Specifications:

Table Size	15-3/4” x 16” (400×406mm)
Table Height	14-1/8” (358mm)
Table Tilt	0-45° (0°, 15°, 22.5°, 30°, and 45°)
Distance from Spindle Center to Front of Worktable	9-11/16” (246mm)
Table Inserts	5
Spindle Speed	2000 RPM
Spindle Lock	Yes
Oscillations Per Minute	55 OPM
Spindle Stroke	5/8” (16mm)
Sanding Sleeve Length	4-9/16” (116mm)
Spindle Diameter	1/2"

Weights and Dimensions:

Dust Port Diameter	2” (50mm)
Base Size (cabinet footprint)	15-3/4” x 18-1/16” (400 x 459mm)
Overall Dimension	15-3/4” x 18-1/16” x 18-3/16” (400 x 459 x 462mm)
Shipping Dimensions	20-9/32” x 17-11/16” x 21-1/16” (515 x 450 x 535mm)
Net Weight	34.2 lbs. (15.5kg)
Shipping Weight	43 lbs. (19.5kg)

The above specifications were current at the time this manual was published, but under our policy of continuous improvement, JET reserves the right to change specifications at any time and without prior notice, without incurring any obligations.

5.0 Features and Controls

5.1 Product Identification

Refer to Figure 5-1:

1. *Limit Plate*
2. *Belt Dust Cover*
3. *Belt Locking Knob*
4. *Belt tension lever*
5. *Belt Tracking Adjustment Knob*
6. *Sanding Belt*
7. *Adjustable Worktable*
8. *Sanding Drums*
9. *Table Inserts (13, 19, 26, 38, 51mm)*
10. *Table Locking Knob*
11. *ON/OFF Switch*
12. *Wrench*
13. *Sanding Belt Assembly*
14. *Belt Workbench Cover Plate*
15. *Sanding drum Assembly*
16. *Dust Port*

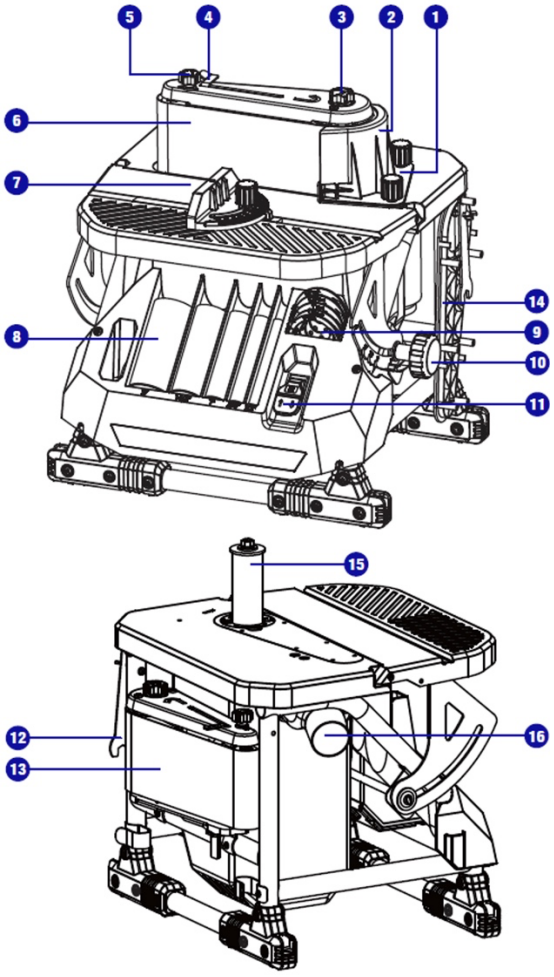


Figure 5-1

5.2 Features

1. The main shaft, which moves up and down, drives the sanding drums or sanding belt assembly to sand the workpieces.
2. On the right side of the machine, the table locking knob locks the adjustable worktable, making angle adjustments quick and convenient.
3. The base is made from steel tubing, providing strength, durability, and reliability.
4. The worktable surface features slots that lead directly to the dust collection port, allowing a dust collection system or shop vacuum to capture wood chips and other debris generated during sanding.
5. The belt dust cover helps contain dust and debris, directing them to the dust port.
6. The motor and the main shaft are connected with a toothed belt, resulting in high transmission efficiency and stable operation.
7. The switch panel features compartments for five table inserts and five sanding drums in different sizes. The rear of the sander has locations to store the sanding-belt assembly and the power cord.

6.0 Unpacking

WARNING **Read and understand all assembly instructions before attempting assembly. Failure to comply may cause serious injury.**

Separate all parts from the packing material. Check each part against *Section 6.1, Carton Contents,* and make certain that all items are accounted for before discarding any packing material.

6.1 Carton Contents

Refer to Figures 6-1 and 6-2.

Before Assembly

1. Remove contents from carton.
2. Compare carton contents with the list found below. Report any shortages or damage to your JET distributor.
3. Clean all rust protected surfaces with kerosene or a light solvent. Do not use lacquer thinner, paint thinner, or gasoline. These will damage plastic components and painted surfaces.

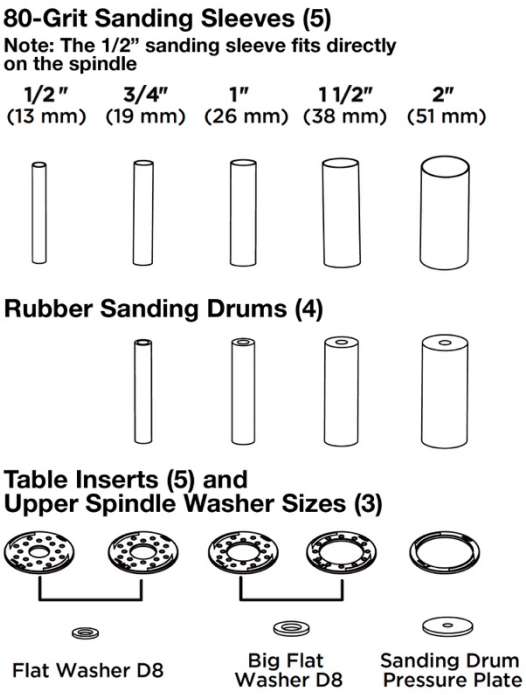


Figure 6-1: Contents of Carton

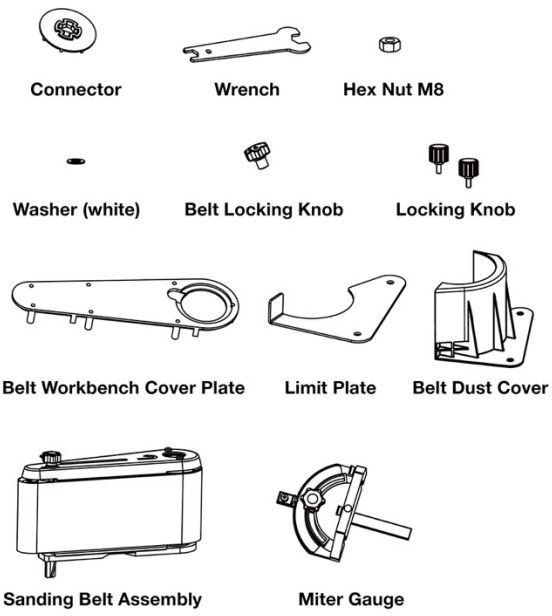


Figure 6-2: Additional Contents

7.0 Assembly

7.1 Sanding Belt Assembly

Preparing Sander for Belt Assembly

Refer to Figures 7-1 and 7-2.

1. Disconnect the machine from the power source.
2. Remove belt workbench cover plate (1), loosen table locking knob (2) on the right side of the machine, raise the adjustable worktable (3) to level, and lock the table locking knob (2) in place.

Note: The adjustable worktable can be adjusted from 0-45°.

3. Slide the lower spindle washer (5) over the drive shaft (4).

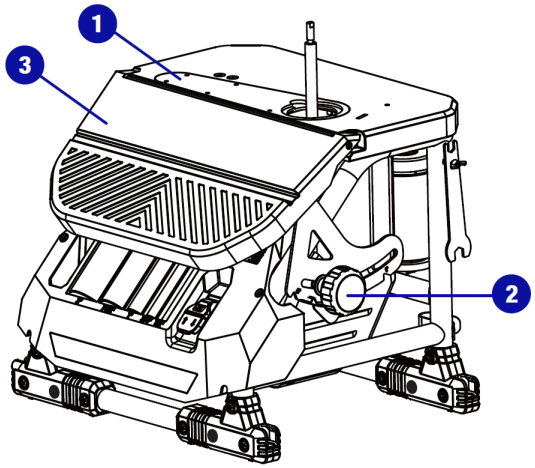


Figure 7-1

Installing Sanding Belt Assembly

Refer to Figure 7-2.

Place the sanding belt assembly (6) on the drive shaft (4). Ensure that the grooves on the machine fit the sanding belt assembly and secure it in place with the sanding belt locking knob (8) and washer (7).

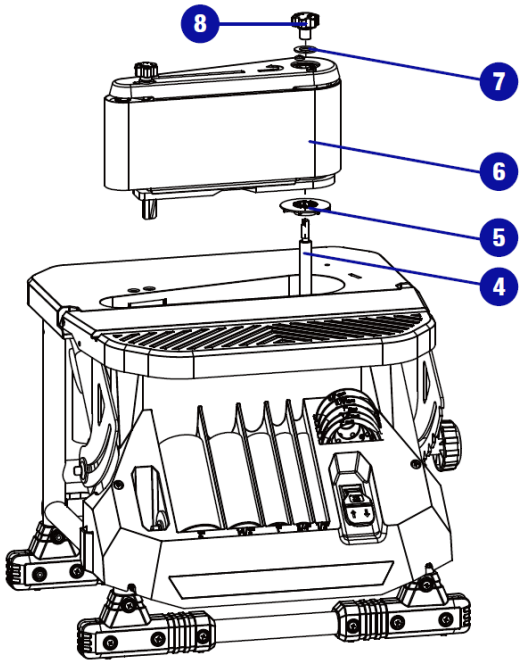


Figure 7-2

Installing Belt Dust Cover and Limit Plate

Refer to Figure 7-3.

Attach the belt dust cover (2) and limit plate (1) to the table using the locking handles (3).

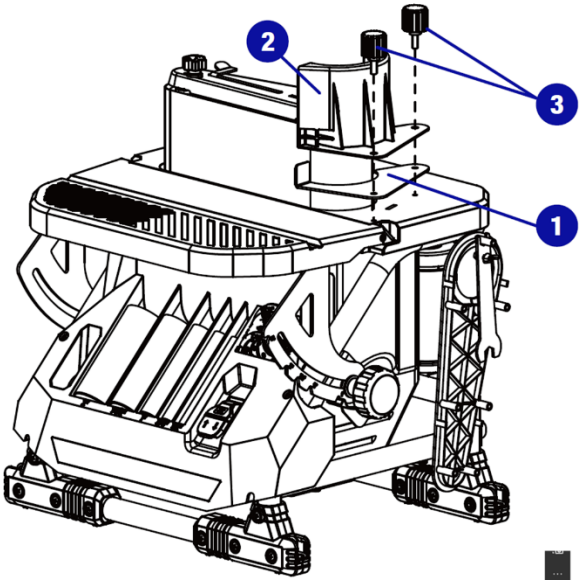


Figure 7-3

Note: Unused attachments can be stored in the designated slots on the machine to prevent loss or damage.

7.2 Sanding Drum Assembly

Preparing Sander for Sanding Drum Assembly

Refer to Figures 7-4 and 7-5.

1. Disconnect the machine from the power source.
2. Remove belt workbench cover plate (1), loosen table locking knob (2) on the right side of the machine, raise the adjustable worktable (3) to level, and lock the table locking knob (2) in place.

Note: The adjustable worktable can be adjusted from 0-45°.

3. Slide the lower spindle washer (5) over the drive shaft (4).

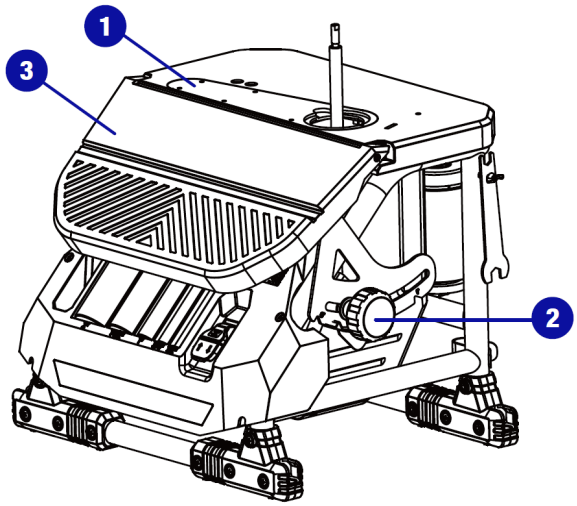


Figure 7-4

Installing Sanding Drum Assembly

Refer to Figure 7-5.

Refer to *Section 6.0, Unpacking* to ensure that you are using the proper sizes of table inserts, drums, and washers for each respective sanding sleeve. To ensure the workpiece is properly supported and to minimize clearance, use the table insert that matches the drum and sleeve you'll be working with. The size of the table insert is marked on the plate's surface.

Note: The smallest size sanding sleeve (1/2") does not include a drum. It goes directly onto the bare spindle shaft (4).

1. Attach the belt workbench cover plate (6) to the machine. Make sure it fits into the groove on the machine.
2. Install the sanding drum (8) onto the spindle shaft (4), then install the corresponding sanding sleeve and table insert (7). Make sure the table insert print side is facing up.
3. Secure the sanding attachment in place with the appropriate size large flat washer (9). Tighten the top hex nut (10) with a wrench (11) until the sanding drum is fully expanded and firmly holds the sanding sleeve. The sleeve cannot rotate freely without the sanding drum rotating.

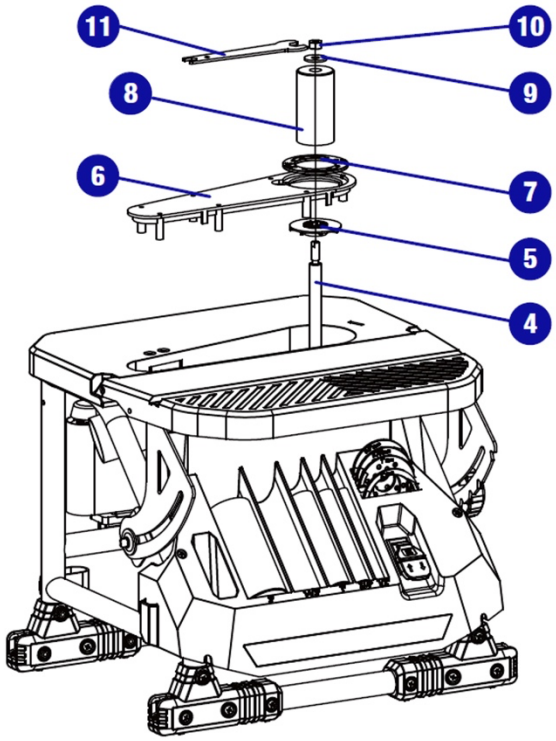


Figure 7-5

7.3 Dust Collection

⚠WARNING **Sanding operations are dusty and can produce particles that are harmful to your health. Always wear a dust mask and use an adequate dust collection system.**

Connect the sander to a dust collection system with a minimum capacity of 350 CFM.

Note: A dryer vent hose is not acceptable for collecting wood dust and chips.

Connecting to Dust Collection System
Refer to Figure 7-6.

1. Fit a 2" (5 cm) dust hose (not included) over the dust port (1) and secure the hose in place with a hose clamp if needed (not included).
2. Tug the hose to make sure the fitting is tight. A tight fit is necessary for proper performance.
3. Connect the other end of the dust hose to the dust collection system of your choice. A dust port adaptor may be needed (not included), depending on the inlet size of your dust collection system. The dust port has an outer diameter of 2" (5 cm), and an inner diameter of 1 27/32" (4.7 cm).

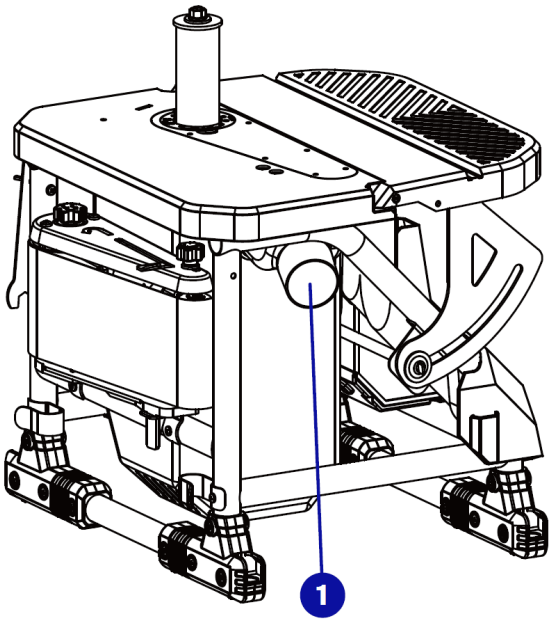


Figure 7-6

8.0 Electrical Connections

⚠WARNING **All electrical connections must be done by a qualified electrician in compliance with all local codes and ordinances. Failure to comply may result in serious injury.**

The JWOES-4 is rated at 120-volt power. The sander comes with a plug designed for use on a circuit with a *grounded outlet, as* shown in Figure 8-1.

Before connecting to a power source, be sure the start/stop switch is in the OFF position.

It is recommended that the sander be connected to a dedicated 10-amp circuit with a circuit breaker or fuse. If connected to a circuit protected by fuses, use a time delay fuse marked “D”. **Local codes take precedence over recommendations.**

8.1 Grounding Instructions

This machine must be grounded. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances (see Figure 8-1).

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

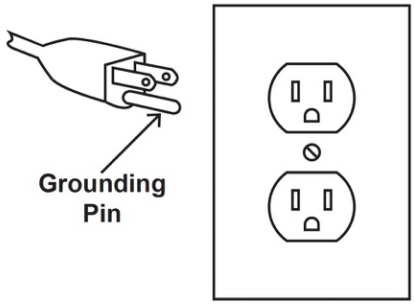
Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation whose outer surface is

green, with or without yellow stripes, is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

⚠WARNING **Check with a qualified electrician or service personnel if the grounding instructions are not fully understood, or if in doubt about whether the tool is properly grounded. Failure to comply may cause serious or fatal injury.**

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace a damaged or worn cord immediately.



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

Figure 8-1

8.2 Extension Cords

Make sure your extension cord is in good condition. When using an extension cord, be sure to use one rated for the current your machine will draw. An undersized cord will cause a drop in the line voltage, resulting in power loss and overheating. The table below shows the correct size to use depending on the cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. Remember, the smaller the gauge number, the heavier the cord.

Table 1

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)				
Amp Rating (at full load)	Extension Cord Length			
	25	50	100	150
0 - 6	18	16	16	14
6 - 10	18	16	14	12
10 - 12	16	16	14	12
12 - 16	14	12	Not Recommended	

9.0 Adjustments

⚠WARNING **Prevent serious injury from accidental operation. Turn machine off and unplug from the electrical outlet before performing any adjustments or maintenance.**

⚠WARNING **Prevent serious injury from accidental operation. Do not operate this machine with any guard disabled, damaged, or removed.**

9.1 Table Adjustment

Refer to Figure 9-1.

1. To adjust the table angle upward, loosen the table locking knob (2). Lift the adjustable worktable (3) to the proper angle, then lock the table locking knob (2).
2. To adjust the angle downward, loosen the table locking knob (2). Hold the table with one hand and press down on the spring plate (1) with the other hand until the table is adjusted to the desired angle. Release the spring plate (1), and lock the table locking knob (2).

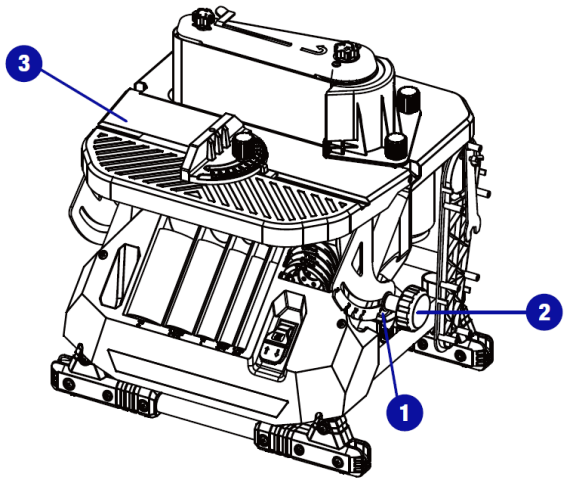


Figure 9-1

9.2 Adjust Sanding Belt Tracking

Refer to Figure 9-2.

1. Install the belt sanding attachment and remove all tools from the worktable.
2. Connect the sander to a power source and turn it ON. Immediately turn the machine OFF, checking that the sanding belt rides centered on the drums and does not move toward the top or bottom edge of the belt sanding attachment.
3. If the sanding belt moves toward the top of the belt sanding attachment, rotate the belt tracking adjustment knob (1) counterclockwise a quarter of a turn.

4. If the sanding belt moves toward the bottom of the belt sanding attachment, rotate the belt tracking adjustment knob clockwise a quarter of a turn.
5. Turn the machine ON, then immediately turn the machine OFF. The sanding belt should be centered on the drums. If it is, the belt is tracking properly, and no further adjustments are needed. Otherwise, repeat steps 2 through 4 as necessary.

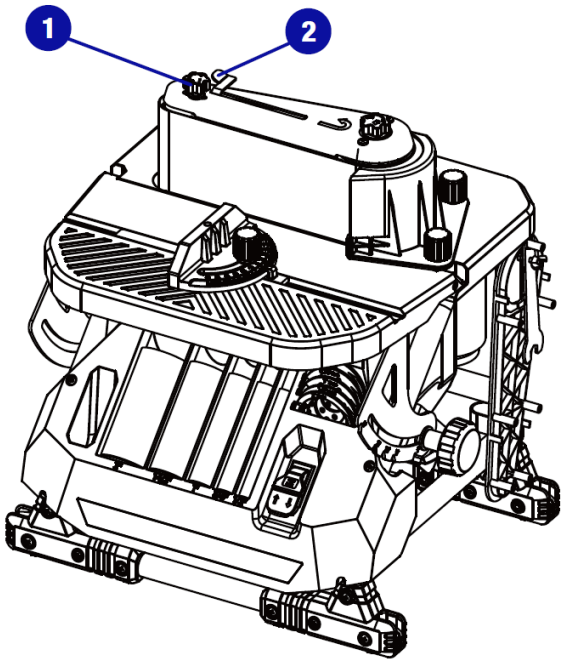


Figure 9-2

9.3 Changing Sanding Belts

Refer to Figure 9-2.

1. To replace the 4 x 24” (10.1 x 61 cm) sanding belt, disconnect the machine from its power source.
2. Slide the belt tension lever (2) to the right to release the tension.
3. Remove the old sanding belt and install a new belt with your chosen grit.
4. Re-tighten the belt tensioning lever.

10.0 Operating Instructions

⚠WARNING **Read and understand *Section 1.0, Important Safety Instructions,* before operating this sander. Make sure the sander is properly assembled and adjusted. Failure to comply may cause serious injury.**

10.1 Operating the Spindle Sander

1. Make sure the machine has been securely mounted and all accessories have been properly installed according to the assembly instructions.
2. Plug in and turn ON the sander. Let the spindle reach full speed.
3. Maintain a firm grip with both hands on the workpiece for maximum control. Slowly guide the workpiece against the spindle's rotation.
4. Maintain downward pressure on the workpiece against the table, gently guiding it along the sanding sleeve until the desired curve is achieved. Do not force the workpiece against the sanding sleeve.
5. When you are finished, turn OFF the sander and wait for the spindle to come to a complete stop.
6. Remove the safety key and unplug the machine from the outlet. Follow the maintenance instructions on the next page to clean and maintain your sander.

⚠WARNING **The spindle rotates counterclockwise. Guide the workpiece from the right to the left. If you guide the workpiece in the opposite direction, the forces of the spinning sanding sleeve will tend to throw or bounce the workpiece away from the sanding sleeve, possibly resulting in injuries.**

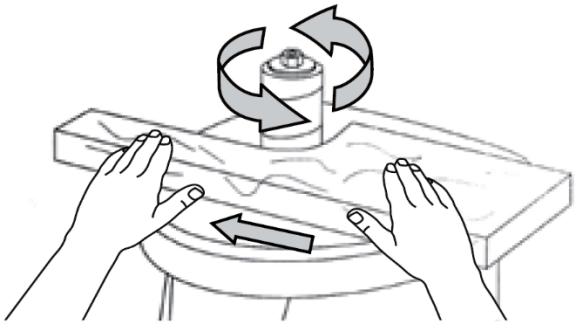


Figure 10-1

10.2 Operating the Belt Sander

Belt Sanding Outside Curves

1. Turn the sander ON and allow it to reach full speed before applying a load.
2. Using both hands, slowly guide the workpiece against the sanding belt. Maintain downward pressure on the workpiece against the table, gently guiding it along the sanding belt until the desired curve is achieved.
3. When finished, turn the sander OFF.

Belt Sanding Inside Curves

To belt sand any inside curves, use the rounded surface of the large or the small sanding drum wheel. Removing the workstop may be required in order to do so. Make sure to unplug the sander when making any adjustments.

1. Set the table tilt to 0° and remove the work stop.
2. Power on the sander and allow it to reach full speed before applying a workpiece.
3. Using both hands, slowly guide the workpiece against the drum wheel portion of the sanding belt. Maintain downward pressure on the workpiece against the table, gently guiding it along the sanding belt until the desired curve is achieved.

11.0 Maintenance

⚠WARNING Prevent serious injury from accidental operation. Turn the machine off and unplug it from the electrical outlet before performing any adjustments or maintenance.

⚠WARNING Prevent serious injury from tool failure. Do not use the tool if damaged. If abnormal noise or vibration occurs, have the problem corrected before further use.

11.1 Routine Inspection

Before each use, inspect the general condition of the tool. If any of the following conditions exist, do not use until parts are replaced or the sander is properly repaired.

Check for:

- Loose hardware or improper mounting,
- Misalignment or binding of moving parts,
- Damaged cord/electrical wiring,
- Cracked or broken parts, and
- Any other condition that may affect its safe operation

⚠WARNING If the tool's power cord is damaged, replace it immediately with a qualified service technician.

11.2 Cleaning and Storage

1. After every operation, use a vacuum to remove dust and chips from the tool surfaces, motor housing, and work area. Keep the ventilation openings free from dust and debris to prevent the motor from overheating.
2. Wipe the tool surfaces clean with a soft cloth or brush. Make sure water does not get into the tool.
3. Periodically, remove the table insert and lower spindle washer, and remove any dust accumulation in the table insert area.
4. Store the tool in a clean, dry place out of children's reach. Store sanding accessories away from extremely hot/dry temperatures. Do not bend or fold the sanding sleeves.

⚠CAUTION Most plastics are susceptible to damage from various types of commercial solvents. Do not use any solvents or cleaning products that could damage the plastic parts. Some of these include, but are not limited to, gasoline, carbon tetrachloride, chlorinated cleaning solvents, and household detergents that contain ammonia.

11.3 Lubrication

All ball bearings are sealed and permanently lubricated. No further lubrication is required.

12.0 **Troubleshooting JWOES-4 Oscillating Belt & Spindle Sander**

⚠WARNING **Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.**

Table 2

Symptom	Possible Cause	Correction *
Sander does not turn on.	Power cord or extension cord damaged or not properly plugged in.	Check the power cord, extension cord, power plug and the power outlet. Make sure the tool is properly plugged in. Do not use the tool if any cord is damaged.
	Safety key is removed from power switch.	Insert the safety key into the power switch.
	Defective power switch, defective motor or wiring, short circuit or loose connections.	Stop using the tool and contact customer service. Repairs must be done by a qualified technician.
	Circuit breaker is tripped.	Reset circuit breaker.
	Worn carbon brushes.	Replace carbon brushes.
Motor overheats.	Motor overloaded.	Reduce load on motor—reduce pressure on the workpiece being sanded.
	Extension cord too long with an insufficient gauge.	Utilize an extension cord of appropriate gauge and length or plug tool directly into outlet.
	Dust collection not being used.	Use dust collection.
Abrasive materials on sanding belt or sleeve easily rub off.	Sanding belt/sleeve has been stored in an incorrect environment.	Store sanding belts/sleeves away from extremely hot/dry temperatures.
	Sanding belt/sleeve has been damaged or folded.	Store sanding belts/sleeves without bending or folding them.
Deep sanding grooves or scars in workpiece.	Sanding belt/sleeve grit is too coarse for the desired finish.	Use a finer-grit sanding accessory.
	Workpiece sanded across the grain.	Sand with the grain of the wood.
	Too much sanding force.	Reduce pressure on workpiece while sanding.
	Workpiece held still against sanding surface for too long.	Keep workpiece moving while sanding.

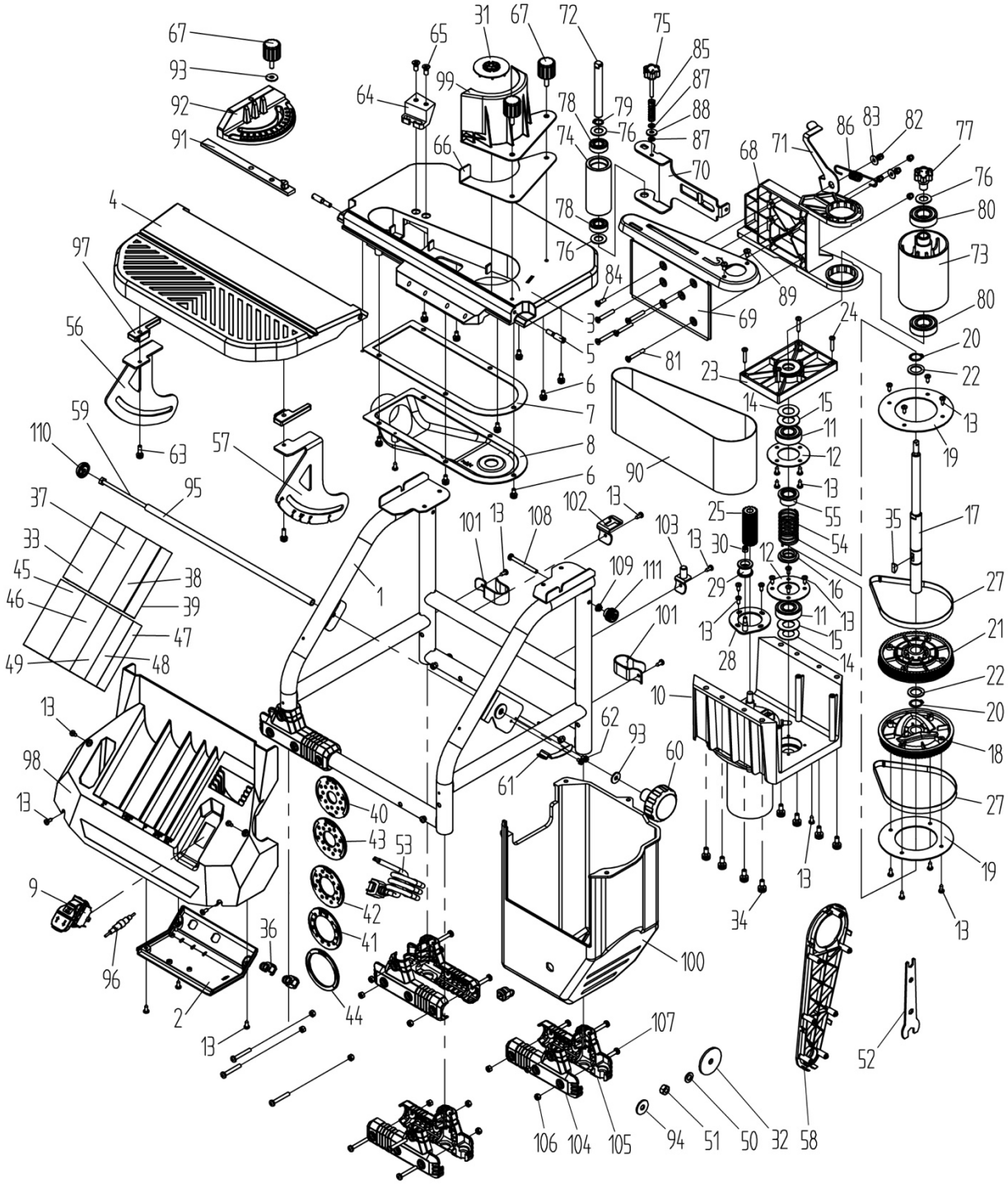
* **⚠WARNING** Some corrections may require a qualified electrician.

13.0 **Replacement Parts**

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday, 8:00 a.m. to 5:00 p.m. CST. Having the Model Number and Serial Number of your machine ready when you call will help us serve you quickly and accurately.

Non-proprietary parts, such as fasteners, can usually be found at local hardware stores or may be ordered from JET.

13.1.1 **JWOES-4 Oscillating Belt & Spindle Sander – Exploded View**



13.1.2 **JWOES-4 Oscillating Belt & Spindle Sander – Parts List**

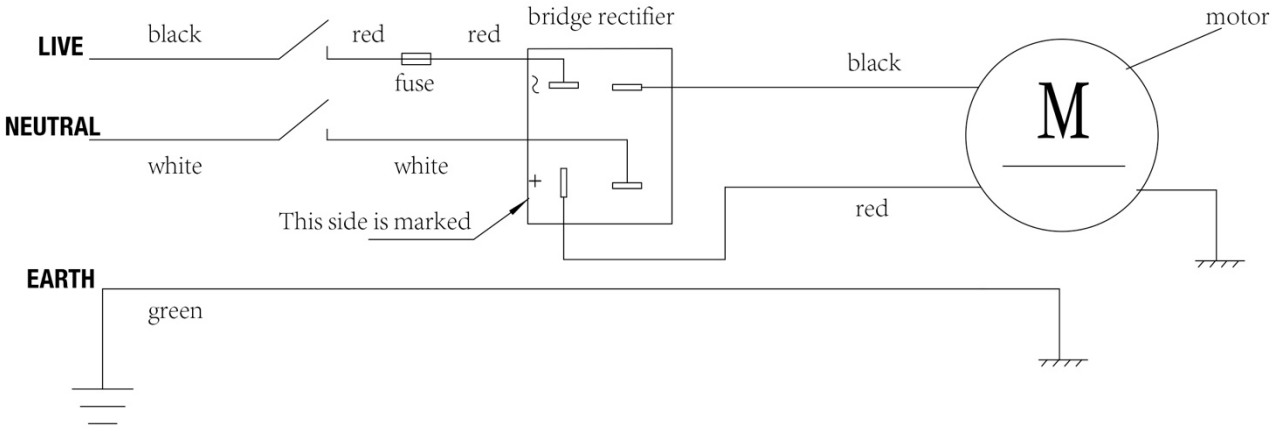
Index No	Part No	Description	Size	Qty
1	**	Base		1
2	**	Switch Box Cover		1
3	**	Fixed Worktable		1
4	**	Adjustable Worktable		1
5	**	Axis Pin		2
6	**	Pan Head Mach Screw		
	**	with Lock Washer & Flat Washer	M5x12	11
7	**	Rubber Washer		1
8	**	Dust Port		1
9	JT1-3637	Switch		1
10	JT1-3638	DC Motor		1
11	**	Bearing		2
12	**	Pressing Plate		2
13	**	Phillips Pan Head Tapping Screw	ST4.2x12	32
14	**	Rubber Pad		2
15	**	Felt Mat		2
16	**	Shaft Sleeve 2		1
17	**	Main Shaft		1
18	**	69-Tooth Synchronous Pulley		1
19	**	Pulley Pressing Plate		2
20	**	Retaining Rings, EXT	M17	2
21	**	70-Tooth Synchronous Pulley		1
22	**	Spring Plate		2
23	**	Support Plate		1
24	**	Phillips Pan Head Tapping Screw	ST4.2x25	4
25	**	Motor Pulley		1
27	JT1-3640	Cog Belt 160xLx10mm		2
28	**	Tension Frame Assembly		1
29	**	Tension Wheel Assembly		1
30	**	Hex Nut, Nylon Lock	M5	1
31	JT1-3641	Lower Spindle Washer		1
32	**	Sand Cylinder Pressure Plate		1
33	JT1-3642	Sanding Drum 2" (50 mm)		1
34	**	Pan Head Machine Screw		
	**	with Lock Washer & Flat Washer	M6x16	8
35	**	Woodruff Key		1
36	**	Cord Clip-6P4		3
37	JT1-3643	Sanding Drum 1-1/2" (38 mm)		1
38	JT1-3644	Sanding Drum 1" (25 mm)		1
39	JT1-3645	Sanding Drum 3/4" (19 mm)		1
40	JT1-3646	Table Insert 1/2" (13 mm)		1
41	JT1-3647	Table Insert 1-1/2" (38 mm)		1
42	JT1-3648	Table Insert 1" (26 mm)		1
43	JT1-3649	Table Insert 3/4" (19 mm)		1
44	JT1-3650	Table Insert 2" (51 mm)		1
45	JT1-3651	Sanding Sleeve 2" (50 mm)		1
46	JT1-3652	Sanding Sleeve 1-1/2" (38 mm)		1
47	JT1-3653	Sanding Sleeve 1/2" (13 mm)		1
48	JT1-3654	Sanding Sleeve 3/4" (19 mm)		1
49	JT1-3655	Sanding Sleeve 1" (25 mm)		1
50	**	Flat Washer	M8	1
51	**	Hex Nut	M8	1
52	**	Wrench		1
53	JT1-3656	Power Cord with Plug		1
54	**	Spring		1

Index No	Part No	Description	Size	Qty
55	**	Shaft Sleeve 1		1
56	**	Left Worktable Bracket		1
57	**	Right Worktable Bracket		1
58	JT1-3657	Belt Worktable Insert		1
59	**	Locking Lever		1
60	**	Table Locking Knob		1
61	**	Spring Leaf		1
62	**	Pan Head Machine Screw		
	**	with Lock Washer & Flat Washer	M4x8	2
63	**	Pan Head Machine Screw		
	**	with Lock Washer & Flat Washer	M5x18	2
64	**	Fixed Slider		1
65	**	Machine Screw, Flat HD	M6x14	2
66	**	Limiting Plate		1
67	**	Locking Knob		3
68	**	Belt Support		1
69	JT1-3658	Support Plate		1
70	**	Guide Support		1
71	JT1-3659	Belt Tension Lever		1
72	**	Drive Shaft		1
73	**	Drive Roller		1
74	**	Idler Roller		1
75	**	Belt Tracking Adjustment Knob		1
76	**	Washer		3
77	JT1-3660	Belt Locking Knob		1
78	**	Bearing 6001-2RS		2
79	**	Retaining Rings, EXT	M12	1
80	**	Bearing 6004-2RS		2
81	**	Machine Screw, Flat HD	M5x35	5
82	**	Hex Nut, Nylon Lock	M5	5
83	**	Fender Washer	M5	2
84	**	Machine Screw, Flat HD	M5x16	1
85	**	Adjustable Spring		1
86	**	Extension Spring		1
87	**	Flat Washer	M5	2
88	**	Rubber Washer		1
89	**	Pan Head Machine Screw	M5x8	2
90	JT1-3661	Sanding Belt（80#）	100x610mm	1
91	**	Miter Gauge Pole		1
92	**	Miter Gauge		1
93	**	Fender Washer	M6	2
94	**	Fender Washer	M8	1
95	**	Locking Rod Sleeve		1
96	**	Safety Seat Assembly		1
97	**	Support Block		2
98	**	Base Plate		1
99	**	Belt Dust Cover		1
100	JT1-3662	Safety Guard		1
101	**	Wire clip		2
102	**	Belt support assembly 2		1
103	**	Belt support assembly 1		1
104	**	Foot 2		4
105	**	Foot 1		4
106	**	Hex Nut	M5	12
107	**	Pan Head Machine Screw	M5x35	12
104-107	JT1-3663	Foot Kit		4
108	**	Pan Head Machine Screw	M4x55	1

Index No	Part No	Description	Size	Qty
109	**	Hex Nut with flange	M4	1
110	**	Backstop washer		1
111	**	Lock nut		1

** These parts are shown for reference only and are not available for order individually. Non-proprietary parts, such as fasteners, can usually be found at local hardware stores.

14.0 **Electrical Connections – JWOES-4**



15.0 **Warranty and Service**

JET warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday.

Warranty Period
The general warranty lasts for the time period specified in the literature included with your product or on the official JET branded website.

- JET products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

Who is Covered
This warranty covers only the initial purchaser of the product from the date of delivery.

What is Covered
This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance. JET woodworking machinery is designed to be used with Wood. Use of these machines in the processing of metal, plastics, or other materials outside recommended guidelines may void the warranty. The exceptions are acrylics and other natural items that are made specifically for wood turning.

Warranty Limitations
Woodworking products with a Five Year Warranty that are used for commercial or industrial purposes default to a Two Year Warranty. Please contact Technical Service at 1-800-274-6846 for further clarification.

How to Get Technical Support
Please contact Technical Service by calling 1-800-274-6846. **Please note that you will be asked to provide proof of initial purchase when calling.** If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. JET has Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-800-274-6846 or use the Service Center Locator on the JET website.

More Information
JET is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the JET website.

How State Law Applies
This warranty gives you specific legal rights, subject to applicable state law.

Limitations on This Warranty
JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

JET SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

JET sells through distributors only. The specifications listed in JET printed materials and on official JET website are given as general information and are not binding. JET reserves the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever. JET® branded products are not sold in Canada by JPW Industries, Inc.

Product Listing with Warranty Period

90 Days – Parts; Consumable items
1 Year – Motors; Machine Accessories
2 Year – Metalworking Machinery; Electric Hoists, Electric Hoist Accessories; Woodworking Machinery used for industrial or commercial purposes
5 Year – Woodworking Machinery
Limited Lifetime – JET Parallel clamps; VOLT Series Electric Hoists; Manual Hoists; Manual Hoist Accessories; Shop Tools; Warehouse & Dock products; Hand Tools; Air Tools

NOTE: JET is a division of JPW Industries, Inc. References in this document to JET also apply to JPW Industries, Inc., or any of its successors in interest to the JET brand.

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