



Operating Instructions and Parts Manual Oscillating Spindle Sander

Model JOSS-S



JET
427 New Sanford Road
LaVergne, Tennessee 37086
Ph.: 800-274-6848
www.jettools.com

Part No. M-723950
Revision D 09/2016
ECR 16090811579
Copyright © 2016 JET

1.0 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.

2.0 Table of contents

| Section | Page |
|--|------|
| 1.0 Warranty and service | 2 |
| 2.0 Table of contents..... | 3 |
| 3.0 Safety warnings..... | 4 |
| 4.0 About this manual | 5 |
| 5.0 Specifications | 6 |
| 6.0 Setup and assembly..... | 7 |
| 6.1 Shipping contents..... | 7 |
| 6.2 Additional tools required..... | 7 |
| 6.3 Unpacking and cleanup..... | 7 |
| 6.4 Removal from pallet | 8 |
| 6.5 Drum and spindle storage | 8 |
| 6.6 Installing/removing spindles | 8 |
| 6.7 Installing table insert..... | 9 |
| 6.8 Wrench storage | 10 |
| 6.9 Dust collection | 10 |
| 7.0 Electrical connections | 10 |
| 7.1 Grounding instructions | 10 |
| 7.2 Voltage conversion..... | 11 |
| 7.3 Extension cords..... | 11 |
| 8.0 Adjustments | 11 |
| 8.1 Rubber shields | 11 |
| 8.2 Table tilt for bevel sanding | 12 |
| 9.0 Operations..... | 12 |
| 9.1 Operating guidelines | 12 |
| 9.2 Safety switch | 13 |
| 9.3 Safety key..... | 13 |
| 10.0 Maintenance..... | 13 |
| 10.1 General maintenance | 13 |
| 10.2 Gearbox lubrication | 13 |
| 11.0 Troubleshooting JOSS-S Spindle Sander..... | 14 |
| 12.0 Replacement Parts..... | 14 |
| 12.1.1 JOSS-S Table Assembly – Exploded View | 15 |
| 12.1.2 JOSS-S Table Assembly – Parts List..... | 16 |
| 12.2.1 JOSS-S Cabinet Assembly – Exploded View..... | 18 |
| 12.2.2 JOSS-S Cabinet Assembly – Parts List | 19 |
| 12.3.1 JOSS-S Spindle and Drum Assembly– Exploded View | 20 |
| 12.3.2 JOSS-S Spindle and Drum Assembly– Parts List..... | 21 |
| 13.0 Electrical Connections – JOSS-S Spindle Sander..... | 23 |



3.0 Safety warnings

Wear eye protection.

Always keep guards in place and in proper operating condition.

This sander is intended to be used with wood and wood products only. Use of this sander and a dust collector with metal products is a potential fire hazard.

Support the workpiece adequately at all times during operation; maintain control of the work at all times.

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 spindle sander is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a spindle sander, do not use until proper training and knowledge have been obtained.
5. Do not use this sander for other than its intended use. If used for other purposes, JET disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
6. Always wear approved safety glasses/face shields while using this spindle sander. Everyday eyeglasses only have impact resistant lenses; they are *not* safety glasses.
7. Before operating this table saw, remove tie, rings, watches and other jewelry, and roll sleeves up 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) if noise exceeds safe levels.
9. **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 to avoid inhaling dust generated from wood products.
10. Wood products emit chemicals known to the State of California to cause birth defects or other reproductive harm. (California Health and Safety Code Section 25249.6)
11. Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
12. Make certain switch is in OFF position before connecting machine to power supply.
13. Make certain machine is properly grounded.
14. Make all machine adjustments or maintenance with machine unplugged from the power source.
15. 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.
16. Keep safety guards in place at all times when machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately after completion of maintenance.
17. Check damaged parts. Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
18. Provide for adequate space surrounding work area and non-glare, overhead lighting.
19. Keep the floor around the machine clean and free of scrap material, oil and grease.
20. Keep visitors a safe distance from the work area. Keep children away.
21. Make your workshop child proof with padlocks, master switches or by removing starter keys.
22. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
23. Maintain a balanced stance at all times so that you do not fall into the blade or other moving parts. Do not overreach or use excessive force to perform any machine operation.
24. Use the right tool at the correct speed and feed rate. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and more safely.
25. Use recommended accessories; improper accessories may be hazardous.

26. Maintain tools with care. Follow instructions for lubricating and changing accessories.
27. Use proper extension cord. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 2 (see sect. 7.3) shows correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.
28. Turn off the machine before cleaning. Use a brush or compressed air to remove chips or debris — do not use your hands.
29. Do not stand on the machine. Serious injury could occur if the machine tips over.
30. Never leave the machine running unattended. Turn the power off and do not leave the machine until it comes to a complete stop.
31. Remove loose items and unnecessary work pieces from the area before starting the machine.
32. Don't use in dangerous environment. Don't use power tools in damp or wet location, or expose them to rain. Keep work area well lighted.
33. Hold workpiece down against table firmly at all times.
34. Do not sand workpieces that are too small to be safely supported.
35. Always use appropriate table insert for the selected spindle or drum. Do not sand without a table insert in place.
36. Allow machine to reach operating speed before beginning to sand.
37. Do not operate this sander with a damaged spindle or sanding sleeve.
38. Always feed work against direction of spindle rotation.

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.

SAVE THESE INSTRUCTIONS

4.0 About this manual

This manual is provided by JET, covering the safe operation and maintenance procedures for the JET Model JOSS-S Oscillating Spindle Sander. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. Your machine has been designed and constructed to provide consistent, long-term operation if used in accordance with the instructions as set forth in this document.

If there are questions or comments, please contact your local supplier or JET. JET can also be reached at our web site: 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!

5.0 Specifications

Model number **JOSS-S**
 Stock number 723950

Motor and electricals:

Motor type totally enclosed fan cooled, induction, capacitor start
 Horsepower 1 HP (0.75kW)
 Phase single
 Voltage 115/230V (prewired 115V)
 Cycle 60Hz
 Listed FLA (full load amps) 11/5.5
 Starting amps 44A
 Running amps (no load) 6.5A
 Start capacitor 200MFD, 125VAC
 Run capacitor 30 μ F 250VAC
 Power transfer direct drive
 Motor speed 1720 RPM
 Power cord 6 ft., 3x16 AWG
 Power plug installed 15A
 Control switch push-button with paddle stop, safety key
 Recommended circuit and fuse/breaker size ¹ 15A
 Sound emission ² 80 dB at 100cm; 83 dB at 50cm

Worm gear:

Gear environment oil bath
 Oil reservoir capacity 1.6 L
 Recommended oil type SAE 90 gear oil

Spindle:

Oscillations per minute 75
 Oscillation length 1-1/2"
 Spindle speed (RPM) 1720
 Spindle lock yes

Materials:

Main table ground cast iron
 Trunnion steel
 Cabinet steel
 Base cast iron
 Sanding drums rubber
 Paint finish enamel and powder coating

Table:

Table dimensions 24-1/2"W x 24-1/2"L
 Table height from floor 39-3/16" (995mm)
 Table tilt 45° front, 15° back

Dimensions:

Cabinet footprint 15" x 15" (381 x 381 mm)
 Overall dimensions w/4"sanding drum 24-1/2"W x 24-1/2"L x 44-3/16"H
 Overall dimensions, shipping 29-15/16"W x 27-9/16"L x 44-1/2"H

Dust collection:

Dust port outside diameter 4" (100mm)
 Minimum extraction volume required 300 CFM (27 CMM)

Weights

Net weight 216 lb (98 kg)
 Shipping weight 256 lb (116 kg)

¹ subject to local/national electrical codes.

² the specified values are emission levels and are not necessarily to be seen as safe operating levels. As workplace conditions vary, this information is only intended to allow the user to make a better estimation of the hazards and risks involved.

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

6.0 Setup and assembly

The sander main unit requires no assembly. Set-up involves only removing sander from pallet, and installing desired table insert and spindle/sleeve combination.

6.1 Shipping contents

Most of the below items can be found on or inside sander cabinet. Some items are shipped in the small box which accompanies the machine. One table insert comes installed on the table.

Refer to Figure 1.

- 1 Spindle sander (not shown)
- 6 Table inserts:
 - for 4" rubber drum (at 90°) – A
 - for 2" rubber drum (at 90°) – B
 - for 3/8" spindle (at 90°) – C
 - for 1/4"-to-3/4" spindle (at tilt) – D
 - for 1", 1-1/2", 2" rubber drum (at tilt) – E
 - for 3" and 4" rubber drum (at tilt) – F
- 1 Rubber drum with sleeve 4" – G
- 1 Rubber drum with sleeve 3" – H
- 1 Rubber drum with sleeve 2" – J
- 1 Rubber drum with sleeve 1-1/2" – K
- 1 Rubber drum with sleeve 1" – L
- 1 3/4" sleeve – M
- 1 3/4" Spindle – N
- 1 5/8" Spindle with sleeve – O
- 1 1/2" Spindle with sleeve – P
- 1 3/8" Spindle with sleeve – R

- 1 1/4" Spindle with sleeve – S
- 1 Spindle hex nut – T
- 1 Combination wrench (with magnet strip) – U
- 1 Hex wrench 3mm, and magnet strip – V

Note: All provided sanding sleeves are 100 grit. Additional grits are available – see parts breakdown.

6.2 Additional tools required

Ratchet wrench with socket set (or adjustable wrench)
Cross-point (Phillips) screwdriver
Machinist square
Straight edge

6.3 Unpacking and cleanup

Inspect all contents from shipping carton, including parts inside cabinet (accessed through the side door). Report any damage or part shortages to your distributor.

Exposed metal surfaces, such as table surface, have been given a protective coating at the factory. This coating should be removed with a soft cloth moistened with solvent, such as mineral spirits. Do not use solvents with low flash points, or allow solvents near plastic or rubber parts. Do not use an abrasive pad as it may scratch exposed surfaces.

Periodically apply a light coat of paste wax or other protectant to the table top to prevent rusting.

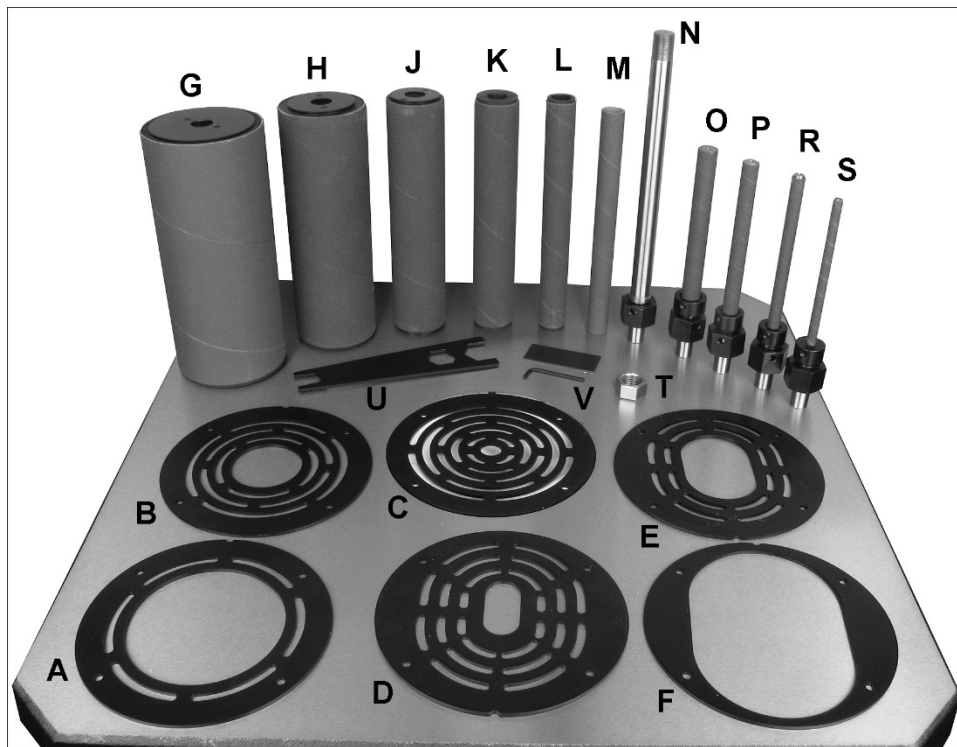


Figure 1

6.4 Removal from pallet

To remove sander from pallet:

1. Open cabinet door and remove accessories.
2. Use ratchet wrench with extended socket to unscrew two bolts securing machine to pallet (Figure 2).
3. Move sander off pallet, with help from an assistant.

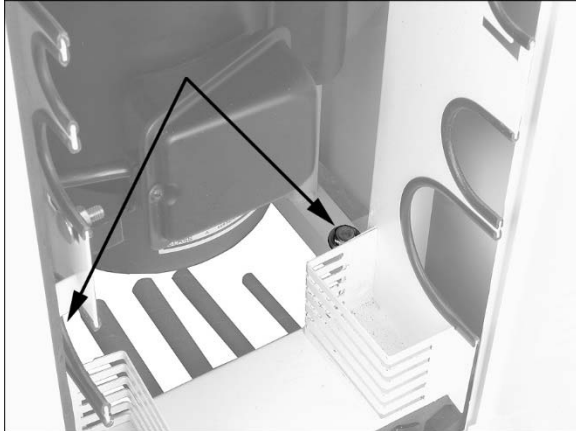


Figure 2: removal from pallet

6.5 Drum and spindle storage

Keep drums, spindles and table inserts protected by storing them in cabinet (Figure 3). To open door, lift bottom of latch and rotate counterclockwise 90 degrees (Figure 4). Reverse procedure to close cabinet door.



Figure 3: cabinet storage



Figure 4: door latch

6.6 Installing/removing spindles

⚠WARNING Disconnect sander from power source when installing or removing sanding assemblies. Failure to comply may cause serious injury.

Open front shield (see sect. 8.1 Rubber Shields).

Thoroughly clean tapered area (A, Figure 5) on all spindle assemblies before installing. Also clean mating shaft on sander.

Remove table insert if installed.

Table may be tilted 15° backward to improve access (see sect. 8.2.)

6.6.1 Small sleeve spindles

Refer to Figure 5.

1. Slide sanding sleeve (B) completely onto spindle, ensuring that it slides into collar (C).
2. Tighten set screw on collar (C) with provided 3mm hex wrench. Do not overtighten.
3. Pull on sleeve to ensure it is secure.
4. Position spindle taper (A) into main shaft and hold.
5. Rotate nut (D) clockwise by hand, as viewed from above. Continue rotating nut until spindle seats (stops turning with nut), then continue rotating nut until it is hand-tight.
6. Push in and hold spindle lock (E). Note: Rotate spindle to ensure proper engagement.
7. Use provided combination wrench to tighten nut further. Do not overtighten.
8. Release spindle lock. Make sure it retracts by rotating spindle slightly.

⚠CAUTION Make sure spindle lock has fully disengaged before turning on sander, or damage to motor may result.

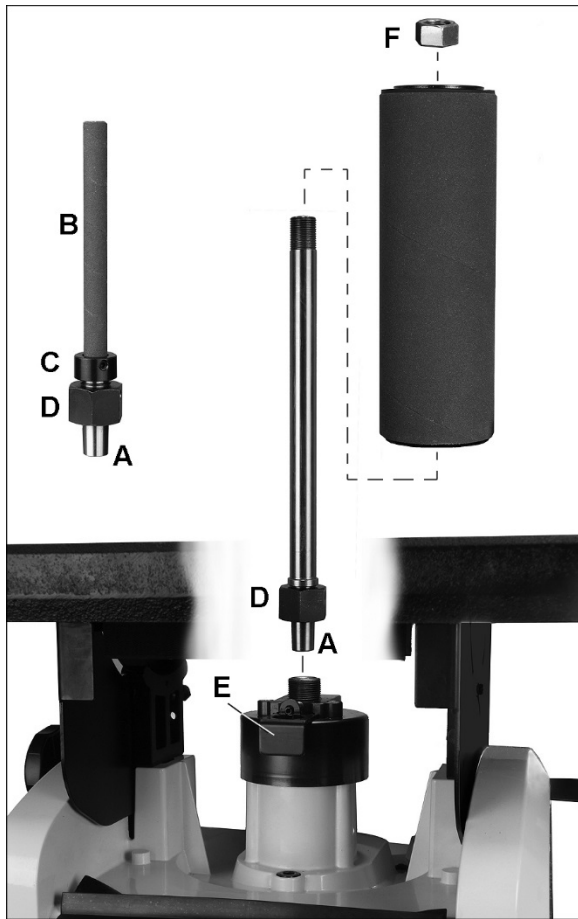


Figure 5: Spindle and drum mounting

6.6.2 Rubber drums

Refer to Figure 5.

1. Position spindle taper (A) into main shaft and hold.
2. Rotate nut (D) clockwise by hand, as viewed from above. Rotate nut until spindle seats (stops turning with nut), then continue rotating nut until it tightens.
3. Push and hold spindle lock (E). Note: Rotate spindle to ensure proper engagement.
4. Use provided combination wrench to tighten nut further. Do not overtighten.
5. Slide sanding sleeve completely onto drum until its bottom edge is even with drum.
6. Slide drum/sleeve assembly down fully onto spindle.
7. Push and hold spindle lock (E).
8. Install hex nut (F) onto spindle threads and tighten clockwise (as viewed from above) with provided combination wrench.
9. Pull on sleeve to ensure it is secure. If it slides, tighten nut (F) a bit further. Do not overtighten.
10. Release spindle lock (E). Make sure it retracts by rotating spindle slightly.

CAUTION Make sure spindle lock has fully disengaged from spindle before turning on sander, or damage to motor may result.

To remove a spindle, reverse the above procedure(s).

6.7 Installing table insert

Tools required:
cross-point screwdriver
straight edge

CAUTION Failure to use proper table insert with corresponding spindle/drum may result in personal injury and/or damage to workpiece.

Table inserts are round or oblong. Table 1 identifies purpose of each.

| Insert | Used with spindle (diameter) | Table angle |
|--------|----------------------------------|---------------|
| | 3" and 4" drum | 0 deg. |
| | 1/2, 5/8, 3/4, 1, 1-1/2, 2" drum | 0 deg. |
| | 1/4" TO 3/8" | 0 deg. |
| | 1/4, 3/8, 1/2, 5/8 and 3/4" | Up to 45 deg. |
| | 1, 1-1/2, 2" drum | Up to 45 deg. |
| | 3" and 4" drum | Up to 45 deg. |

Table 1: Table insert identification

1. Position insert into table, so that notch is captured by the pin (A, Figure 6).
2. Place straight edge over insert and table. If gaps appear between straight edge and insert, turn screw(s) to raise or lower insert. Reposition straight edge at right angle to check level in both directions.

Note: Leveling one insert is sufficient as all inserts are same thickness.

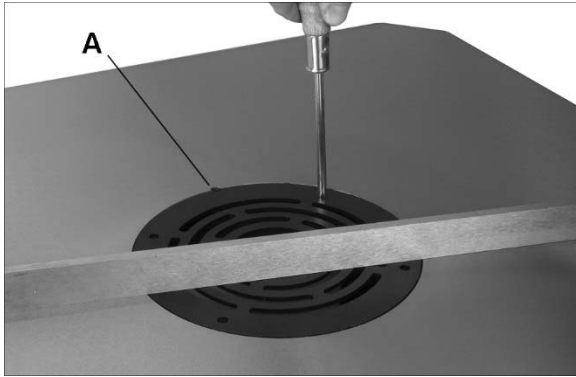


Figure 6: mounting table insert

6.8 Wrench storage

The provided combination wrench has a magnetic strip, and can be placed against any metal surface.

Expose the adhesive on the additional magnetic strip and apply anywhere on the cabinet surface. The hex key can be stored against it.

6.9 Dust collection

A sander produces a significant volume of wood dust; the use of a dust collection system is strongly recommended. It will help keep the shop clean, as well as reduce potential health hazards caused by inhalation of wood dust. The collector should have a capacity sufficient for this size machine; minimum 300 CFM is recommended.

JET has a line of dust collection systems available; see your dealer or visit our website listed on the cover.

Connect the hose of your dust collection system to the 4-inch dust port (Figure 7) at rear of sander. Secure tightly with a hose clamp.

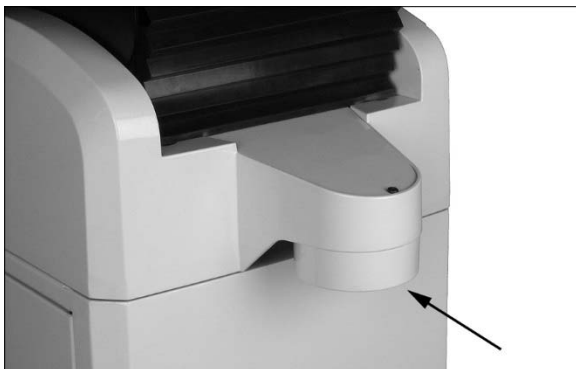


Figure 7

7.0 Electrical connections

The JOSS-S sander is rated at 115/230V power, and is pre-wired for 115 volt. The sander comes with a plug designed for use on a circuit with a *grounded outlet* that looks like the one pictured in **A**, Figure 8.

Before connecting to power source, be sure switch is in *off* position.

It is recommended that the JOSS-S sander be connected to a dedicated 15 amp circuit with a 15 amp circuit breaker or time-delay fuse marked "D". **Local codes take precedence over recommendations.**

7.1 Grounding instructions

1. All Grounded, Cord-connected Tools:

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.

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

⚠WARNING Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to 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 damaged or worn cord immediately.

2. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating **less than 150 volts:**

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in **A**, Figure 8. An adapter, shown in **B** and **C**, may be used to connect this plug to a 2-pole receptacle as shown in **B** if a properly grounded outlet is not available.

The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. *This adapter is not permitted in Canada.* The green-colored rigid ear, lug, and the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

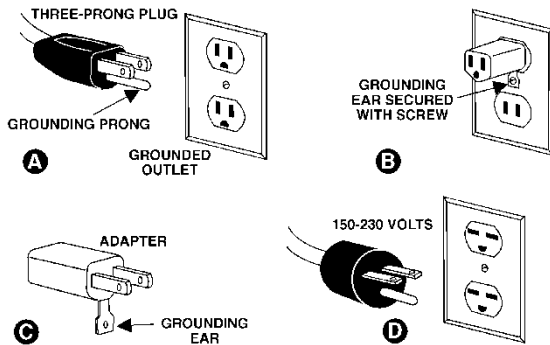


Figure 8

3. *Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating between 150 - 250 volts, inclusive:*

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in **D**, Figure 8. The tool has a grounding plug that looks like the plug illustrated in **D**. Make sure the tool is connected to an outlet having the same configuration as the plug. No adapter is available or should be used with this tool. If the tool must be reconnected for use on a different type of electric circuit, the reconnection should be made by qualified service personnel; and after reconnection, the tool should comply with all local codes and ordinances.

7.2 Voltage conversion

To switch incoming power leads for 230 volt operation, follow wiring diagram on inside cover of motor junction box. A similar diagram is printed in sect. 13. (In case of discrepancy, diagram on machine takes precedence.)

The power cord plug must be replaced with a UL/CSA listed plug rated for 230V.

7.3 Extension cords

The use of extension cords is discouraged; try to position machines within reach of the receptacle. If an extension cord is necessary, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 2 shows correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

| Ampere Rating | | Volts | Total length of cord in feet | | | |
|---------------|---------------|-------|------------------------------|-----|-----------------|-----|
| More Than | Not More Than | | 25 | 50 | 100 | 150 |
| | | 120 | 25 | 50 | 100 | 150 |
| | | 240 | 50 | 100 | 200 | 300 |
| | | | AWG | | | |
| 00 | 06 | | 18 | 16 | 16 | 14 |
| 06 | 10 | | 18 | 16 | 14 | 12 |
| 10 | 12 | | 16 | 16 | 14 | 12 |
| 12 | 16 | | 14 | 12 | Not Recommended | |

Extension Cord Recommendations
Table 2

8.0 Adjustments

⚠WARNING Disconnect sander from power source before making adjustments.

8.1 Rubber shields

Refer to Figures 9 and 10.

Front and rear rubber shields are connected at top by hook-and-loop fasteners. Peel off top of shield to access spindle area (Figure 9).

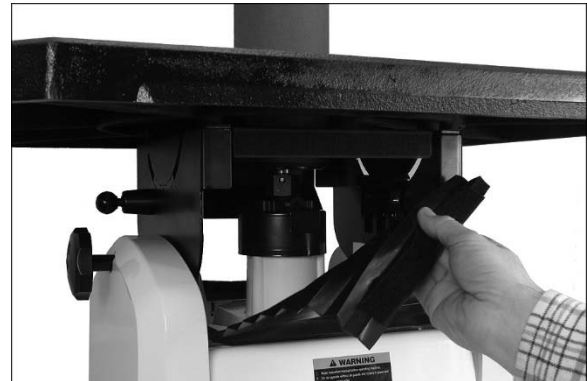


Figure 9: front shield

IMPORTANT: Before tilting table to maximum degree forward, move top of shield from upper position (A) to lower position (B).

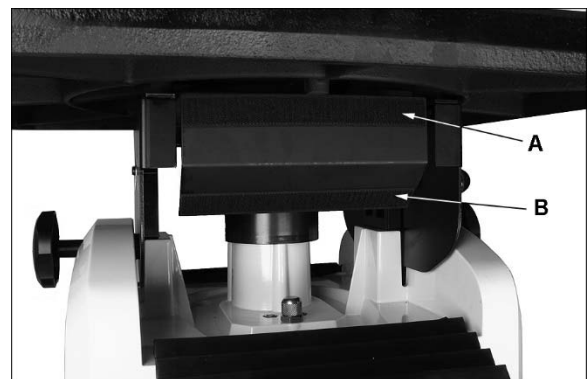


Figure 10: rear shield

8.2 Table tilt for bevel sanding

Refer to Figures 11 and 12.

1. Loosen both knobs (A, Figure 11) counterclockwise.

To tilt forward (45-degree maximum):

2. Move table by hand to desired angle shown on scale (B). Scale is marked in 5-degree increments.
3. Retighten knobs (A).

To tilt backward (15-degree maximum):

4. Pull out pin (C) and rotate it 90-degrees to keep it disengaged.
5. Tilt table to desired position, and tighten knobs (A).

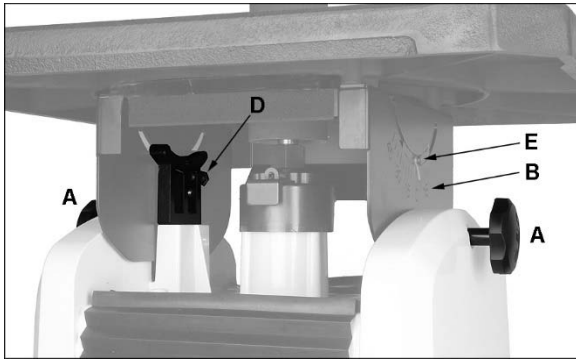


Figure 11: table tilt

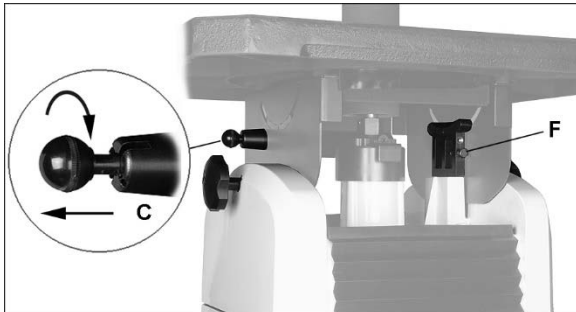


Figure 12: table tilt

8.2.1 Setting 90- and 45-degree stops

Tools required:
machinist square
13mm wrench

Refer to Figures 11 through 13.

1. Make sure table insert has been leveled with table (sect. 6.7).
2. Make sure pin (C) is re-engaged to contact stop screw. Position table at zero (90-degrees) against stop screw (D).
3. Place square on table and against front of drum or spindle (Figure 13).
4. Rotate screw (D) until square sits flush against table and spindle/drum.

5. If needed, loosen pointer (E) and align it with zero degree mark.
6. Tilt table to 45-degrees and check accuracy of 45-degree stop screw (F). Adjust as needed.

Note: The above procedure is sufficient for most wood sanding operations. If greater angle precision is needed, remove insert and use a larger square flush against a bare spindle and table surface to set 90-degree stop.



Figure 13: setting tilt stop

9.0 Operations

9.1 Operating guidelines

1. Select spindle that is slightly smaller than curve to be sanded.
2. Make sure spindle is properly secured on main shaft.
3. Use table insert that has smallest opening possible without contacting sanding sleeve.
4. Loosen both table handles and position table at desired angle. Tighten both table handles before operating.
5. Turn on sander and allow it to reach full speed before starting work.
6. Hold workpiece firmly and against table at all times.
7. For best results, keep workpiece moving against spindle.
8. When table is at zero (90-degrees), workpiece may approach sanding sleeve from any part of table. When table is tilted, use table area in front of spindle.

9. Sanding sleeve life may be prolonged by reversing it on the spindle to make use of opposite end.

CAUTION Keep fingers clear of sanding sleeve and table insert hole during operation.

9.2 Safety switch

Refer to Figure 14.

To start sander, push green button (A).

To stop sander, push red button (B).

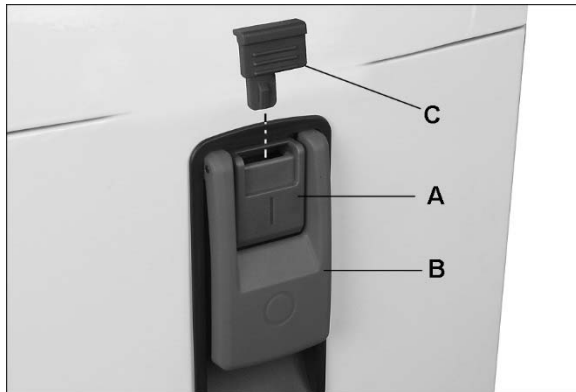


Figure 14

WARNING If power to the sander is interrupted, the machine will restart immediately once power is restored, unless the red stop button has been pushed.

9.3 Safety key

The switch has a safety feature that prevents unauthorized or accidental starting of the sander.

With sander turned off, slide safety key (C, Figure 14) upward and remove it from switch. Store in a safe place. This piece must be re-inserted before sander can operate.

10.0 Maintenance

WARNING Always disconnect power to the machine before performing maintenance. Failure to do this may result in serious personal injury.

10.1 General maintenance

Clean the sander after each use. Vacuum any residual dust inside the cabinet and around spindle area.

Periodically apply a light coat of paste wax or other protectant to the table surface to prevent rust.

All bearings are permanently lubricated and sealed; no further lubrication required.

10.2 Gearbox lubrication

Periodically check oil level at the sight glass (D, Figure 15) – oil should be mid-level in the glass.

Use good quality SAE 90 gear oil.

Completely drain and refill after every 800 hours of use. Oil capacity is 1.6 liters.

To drain and refill gearbox:

1. Remove accessories from inside cabinet to access drain plug.
2. Remove drain plug (E, Figure 15) with 14mm wrench. Dispose of used oil properly. Reinstall drain plug.
3. Open rear shield, and clean area around oil cap. Unscrew oil cap (F, Figure 16) by hand, and remove spring.
4. Fill reservoir until oil level is at center of sight glass.
5. Reinstall spring and oil cap.

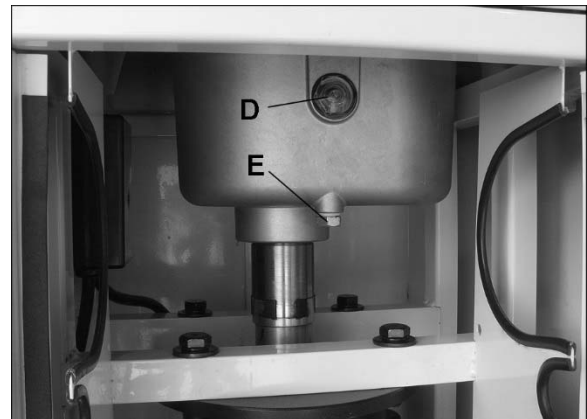


Figure 15

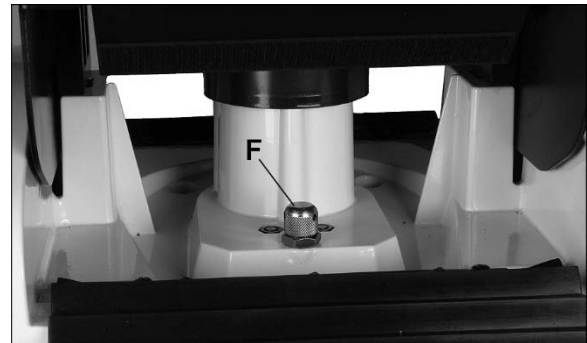


Figure 16

11.0 Troubleshooting JOSS-S Spindle Sander

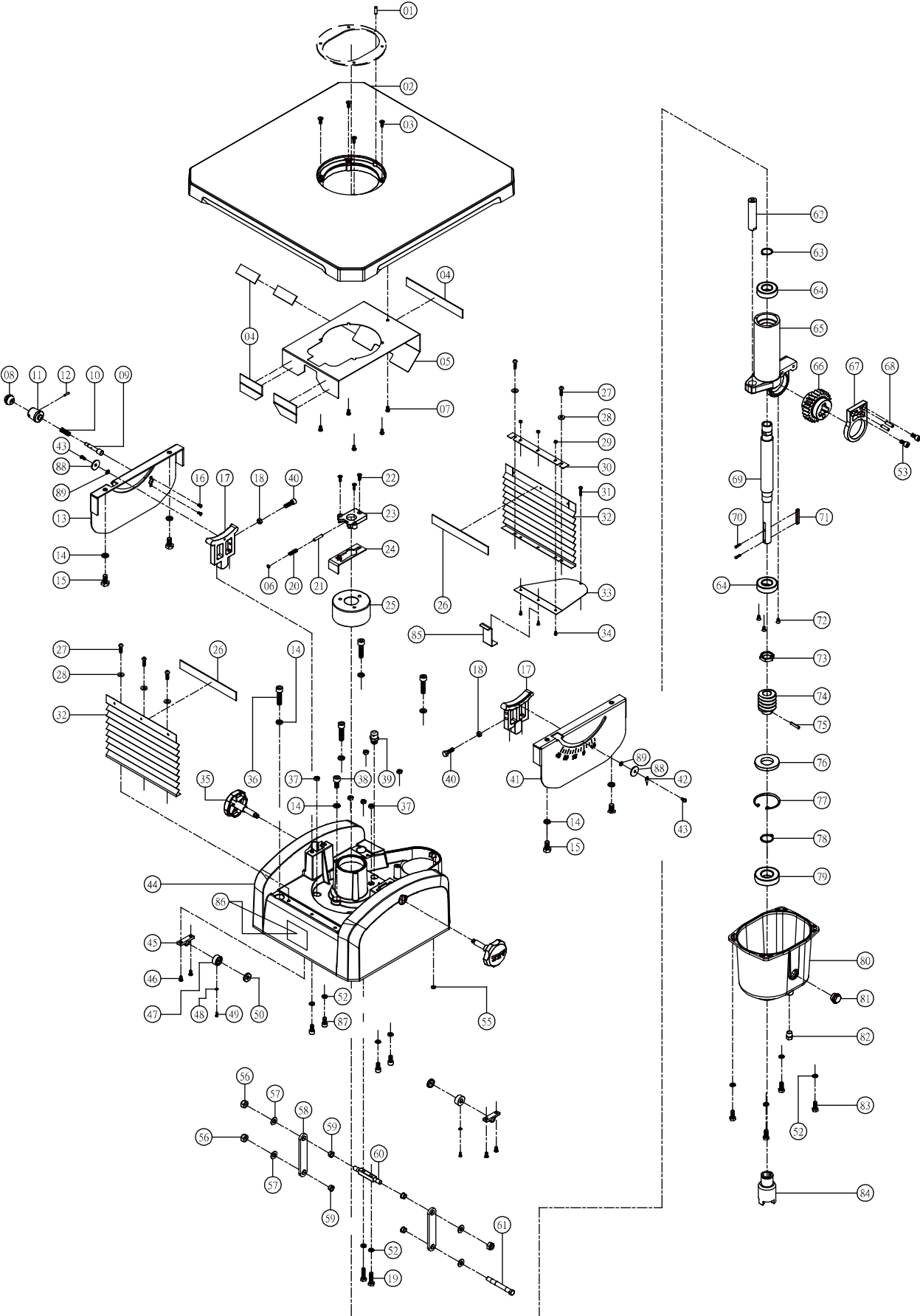
| Symptom | Possible Cause | Correction |
|---|--|--|
| Sander will not start. | Sander unplugged from wall or motor. | Check all plug connections. |
| | Fuse blown, or circuit breaker tripped in service panel. | Replace fuse, or reset circuit breaker. |
| | Cord damaged. | Replace cord. |
| | Starting capacitor bad. | Replace starting capacitor. |
| Sanding drum does not come up to speed. | Extension cord too light or too long. | Replace with adequate size and length cord. |
| | Low current. | Contact a qualified electrician. |
| Machine vibrates excessively. | Stand or base on uneven surface. | Adjust stand or base so that it rests evenly on the floor. |
| | Bearings worn. | Replace bearings. |
| Sanded edge not square. | Table not square to sanding drum. | Use a square to adjust table to sanding drum. |
| Sanding marks on wood. | Wrong grit sanding sleeve. | Use coarser grit for stock removal and fine grit for finish sanding. |
| | Feed pressure too great. | Do not force workpiece against spindle or drum. |

Table 3

12.0 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 available when you call will allow us to serve you quickly and accurately.

12.1.1 JOSS-S Table Assembly – Exploded View

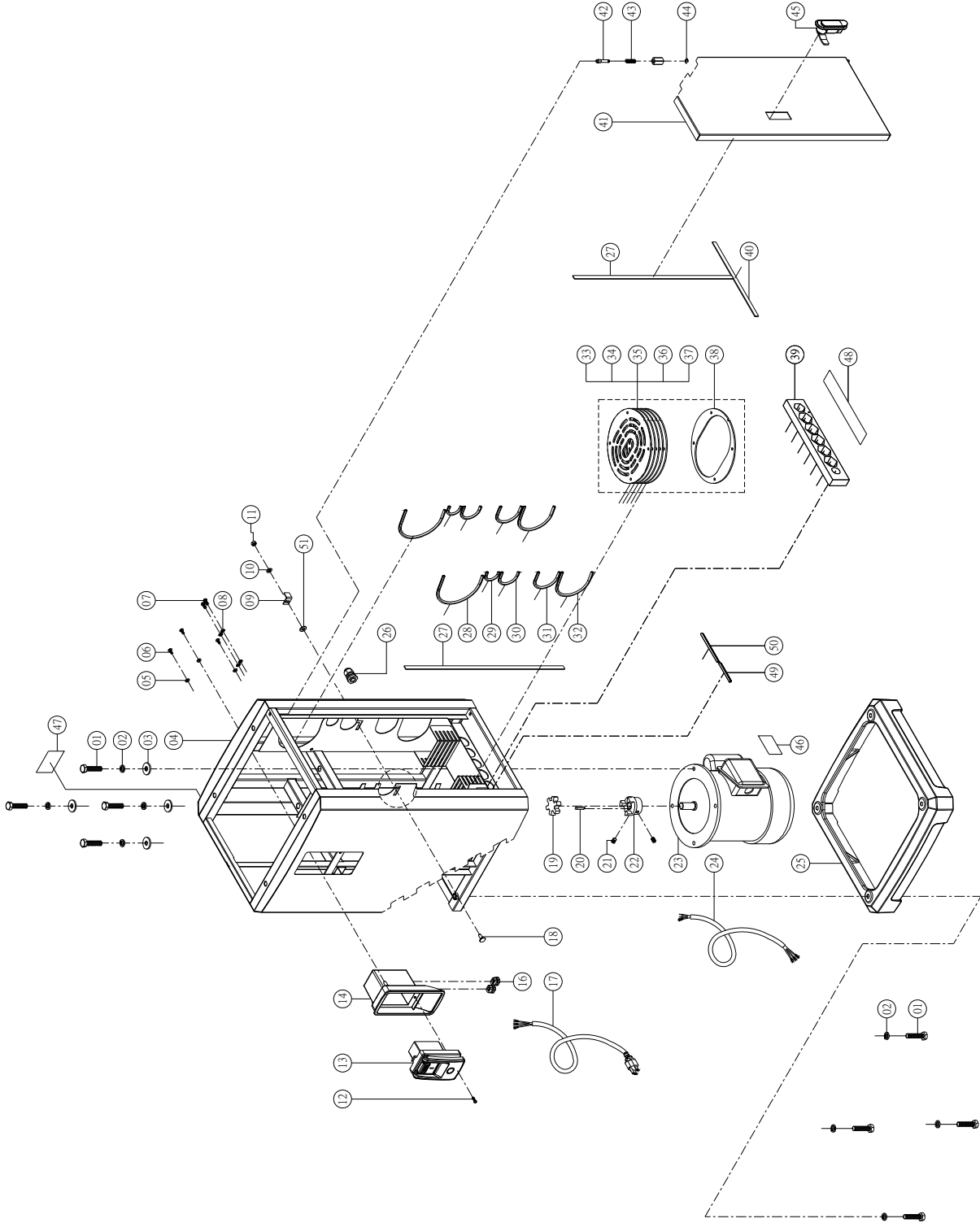


12.1.2 JOSS-S Table Assembly – Parts List

| Index No | Part No | Description | Size | Qty |
|----------|-------------|-----------------------------------|--------------|-----|
| 1 | SBR30M-62 | Spring Pin | 5*20L | 1 |
| 2 | JOSS-S-102 | Table | | 1 |
| 3 | JOSS-S-103 | Phillips Flat Head Screw | M6*1.0P*15L | 4 |
| 4 | JOSS-S-104 | Hook-and-Loop Fastener (Male) Set | | 1 |
| 5 | JOSS-S-105 | Rubber Shield Holder | | 1 |
| 6 | TS-1550031 | Flat Washer | 5.5*8*1T | 1 |
| 7 | JOSS-S-107 | Phillips Round Head Screw | M6*1.0P*10L | 5 |
| 8 | JOSS-S-108 | Knob | | 1 |
| 9 | JOSS-S-109 | Stop Pin | | 1 |
| 10 | JOSS-S-110 | Compression Spring | | 1 |
| 11 | JOSS-S-111 | Stop Pin Housing | | 1 |
| 12 | 40345 | Spring Pin | 3*16L | 1 |
| 13 | JOSS-S-113 | Left Table Trunnion | | 1 |
| 14 | TS-2361101 | Lock Washer | M10 | 9 |
| 15 | TS-1491021 | Hex Cap Screw | M10*1.5P*20L | 4 |
| 16 | TS-1512011 | Socket Head Flat Screw | M4*0.7P*10L | 2 |
| 17 | JOSS-S-117 | Guide Block | | 2 |
| 18 | TS-1540061 | Hex Nut | M8*1.25P | 2 |
| 19 | TS-1490051 | Hex Cap Screw | M8*1.25P*30L | 3 |
| 20 | JOSS-S-120 | Compression Spring | | 1 |
| 21 | 60B-277 | Spring Pin | 6*36L | 1 |
| 22 | F010958 | Phillips Flat Head Screw | M5*0.8P*20L | 3 |
| 23 | JOSS-S-123 | Spindle Lock Seat | | 1 |
| 24 | JOSS-S-124 | Spindle Lock | | 1 |
| 25 | JOSS-S-125 | Cap | | 1 |
| 26 | JOSS-S-126 | Hook-and-Loop Fastener (Female) | | 2 |
| 27 | JOSS-S-127 | Phillips Round Head Screw | M6*1.0P*20L | 5 |
| 28 | TS-0692061 | Flat Washer | 6.4*16*1.6T | 5 |
| 29 | TS-1540021 | Hex Nut | M4*0.7P | 3 |
| 30 | JOSS-S-130 | Rubber Shield Holder | | 1 |
| 31 | TS-2285202 | Phillips Round Head Screw | M5*0.8P*20L | 1 |
| 32 | JOSS-S-132 | Rubber Shield | | 2 |
| 33 | JOSS-S-133 | Dust Chute Cover | | 1 |
| 34 | TS-2284082 | Phillips Round Head Screw | M4*0.7P*8L | 3 |
| 35 | JOSS-S-135 | Knob | | 2 |
| 36 | TS-1505061 | Socket Head Cap Screw | M10*1.5P*40L | 4 |
| 37 | TS-1540061 | Hex Nut | M8*1.25P | 6 |
| 38 | TS-1505021 | Socket Head Cap Screw | M10*1.5P*20L | 1 |
| 39 | JOSS-S-139 | Oil Filler Plug | | 1 |
| 40 | TS-1504051 | Socket Head Cap Screw | M8*1.25P*25L | 2 |
| 41 | JOSS-S-141 | Right Table Trunnion | | 1 |
| 42 | JOSS-S-142 | Pointer | | 1 |
| 43 | F001208 | Phillips Round Head Screw | M5*0.8P*8L | 2 |
| 44 | JOSS-S-144 | Quill Housing | | 1 |
| 45 | JOSS-S-145 | Knob Seat | | 2 |
| 46 | JOSS-S-146 | Self Tapping Screw | 1/4"*5/8"L | 4 |
| 47 | JOSS-S-147A | Collar | | 2 |
| 48 | TS-2361041 | Lock Washer | M4 | 2 |
| 49 | TS-2284102 | Phillips Round Head Screw | M4*0.7P*10L | 2 |
| 50 | JOSS-S-150A | Rubber Pad | | 2 |
| 52 | TS-2361081 | Lock Washer | M8 | 10 |
| 53 | TS-1504031 | Socket Head Cap Screw | M8*1.25P*16L | 2 |
| 55 | JOSS-S-155 | Square Nut | M5*0.8P | 1 |
| 56 | TS-1541041 | Nylon Lock Hex Nut | M10*1.5P | 3 |
| 57 | TS-1550071 | Flat Washer | 10*20*2T | 4 |
| 58 | JOSS-S-158 | Link | | 2 |
| 59 | JOSS-S-159 | Oilite Shaft Bushing | | 4 |
| 60 | JOSS-S-160 | Link Shaft | | 1 |
| 61 | JOSS-S-161 | Worm Gear Shaft | | 1 |

| Index No | Part No | Description | Size | Qty |
|----------|------------|---------------------------|--------------|-----|
| 62 | JOSS-S-162 | Guide Bar | | 1 |
| 63 | JOSS-S-163 | Retaining Ring | STW-25 | 1 |
| 64 | BB-6205VV | Ball Bearing | 6205VV | 2 |
| 65 | JOSS-S-165 | Quill | | 1 |
| 66 | JOSS-S-166 | Worm Gear | | 1 |
| 67 | JOSS-S-167 | Worm Gear Fitting Bracket | | 1 |
| 68 | PM2800-039 | Spring Pin | 6*25L | 2 |
| 69 | JOSS-S-169 | Main Shaft | | 1 |
| 70 | JOSS-S-170 | Socket Head Cap Screw | M3*0.5P*14L | 2 |
| 71 | JOSS-S-171 | Key | | 1 |
| 72 | TS-2285101 | Phillips Flat Head Screw | M5*0.8P*10L | 3 |
| 73 | JOSS-S-173 | Special Nut | | 1 |
| 74 | JOSS-S-174 | Worm Shaft | | 1 |
| 75 | OVS10-050 | Spring Pin | 6*30L | 1 |
| 76 | JOSS-S-176 | Oil Seal | 30*62*8T | 1 |
| 77 | JOSS-S-177 | Retaining Ring | RTW-62 | 1 |
| 78 | JOSS-S-178 | Retaining Ring | STW-30 | 1 |
| 79 | BB-6206VV | Ball Bearing | 6206VV | 1 |
| 80 | JOSS-S-180 | Oil Tank | | 1 |
| 81 | JOSS-S-181 | Oil Sight Glass | | 1 |
| 82 | JOSS-S-182 | Oil Drain Plug | PT-19, 1/4" | 1 |
| 83 | TS-1490031 | Hex Cap Screw | M8*1.25P*20L | 4 |
| 84 | JOSS-S-184 | Shaft Coupling | | 1 |
| 85 | JOSS-S-185 | Stop Bracket | | 1 |
| 86 | JOSS-S-186 | Warning Label | | 1 |
| 87 | TS-1504041 | Socket Head Cap Screw | M8*1.25P*20L | 4 |
| 88 | TS-1550031 | Flat Washer | 5.5*22*2T | 2 |
| 89 | TS-1551031 | Lock Washer | M5 | 2 |

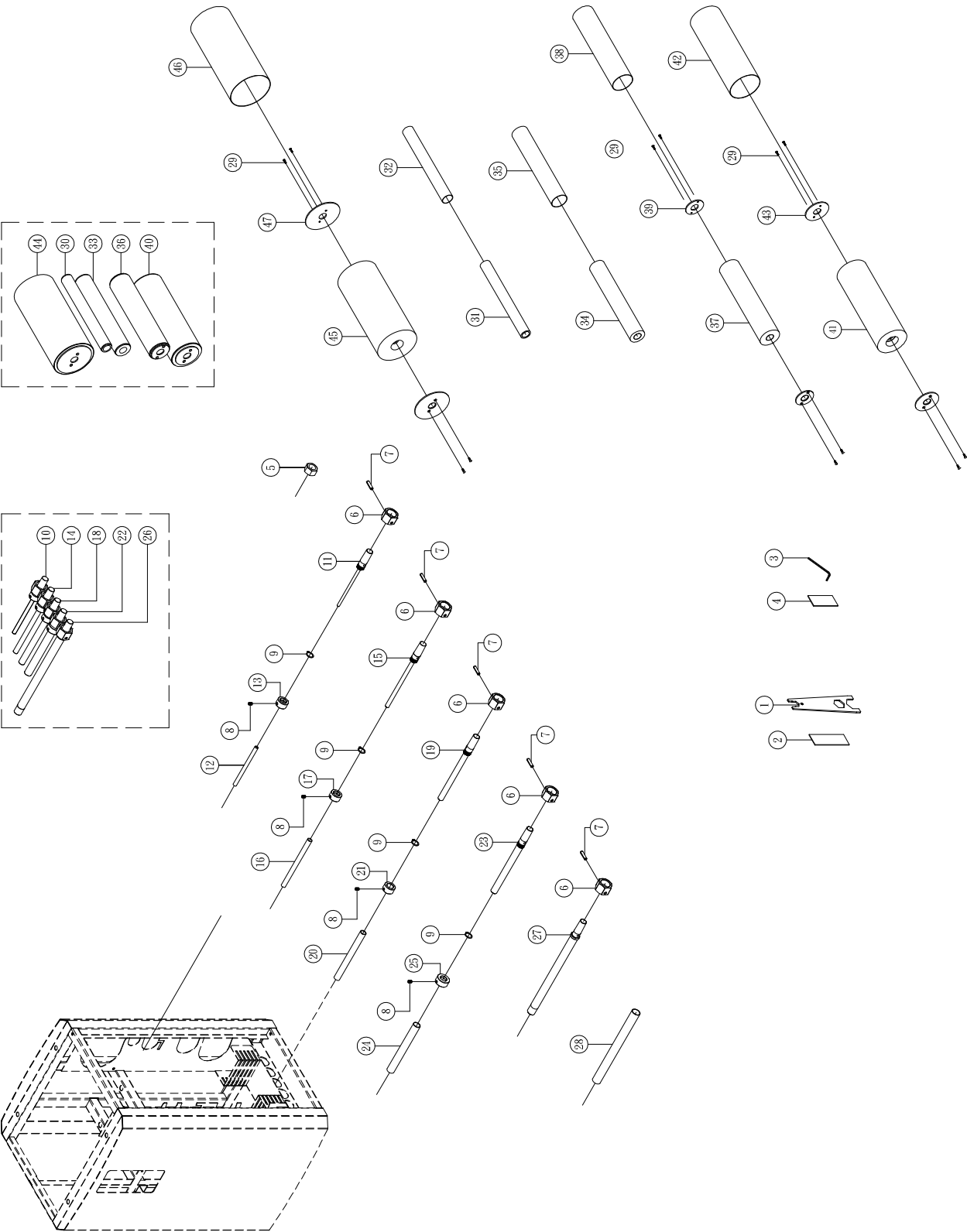
12.2.1 JOSS-S Cabinet Assembly – Exploded View



12.2.2 JOSS-S Cabinet Assembly – Parts List

| Index No. | Part No. | Description | Size | Qty |
|-----------|------------|---|--------------------|-----|
| 1 | TS-2210451 | Hex Cap Screw | M10*1.5P*45L | 8 |
| 2 | TS-2361101 | Lock Washer | M10 | 8 |
| 3 | 5051911 | Flat Washer | 10*28*3T | 4 |
| 4 | JOSS-S-204 | Cabinet | | 1 |
| 5 | TS-1550021 | Flat Washer | 4.3x10x1T | 3 |
| 6 | F011291 | Phillips Round Head Tapping Screw | M4*15L | 3 |
| 7 | F001205 | Phillips Round Head Screw | M5*0.8P*10L | 2 |
| 8 | JOSS-S-208 | Star Washer | M5 | 4 |
| 9 | JOSS-S-209 | Door Catch | | 1 |
| 10 | TS-1550041 | Flat Washer | 6.5*13*1T | 1 |
| 11 | TS-2311061 | Hex Nut | M6*1.0P | 1 |
| 12 | F011291 | Phillips Pan Head Tapping Screw | M4*15L | 1 |
| 13 | JOSS-S-213 | Switch | | 1 |
| 14 | JOSS-S-214 | Switch Box | | 1 |
| 16 | JOSS-S-216 | Strain Relief | SB7R-3 | 2 |
| 17 | JOSS-S-217 | Power Cord | 3x16 AWG | 1 |
| 18 | JOSS-S-218 | Carriage Bolt | M6*1.0P*16L | 1 |
| 19 | JOSS-S-219 | Coupling Cushion | | 1 |
| 20 | JOSS-S-220 | Key | 5*5*25L | 1 |
| 21 | TS-0270031 | Socket Set Screw | 5/16"-18UNC*3/8"L | 2 |
| 22 | JOSS-S-222 | Motor Coupling | | 1 |
| 23 | JOSS-S-223 | Motor | 1HP, 115/230V, 1Ph | 1 |
| 24 | JOSS-S-224 | Motor Cord | | 1 |
| 25 | JOSS-S-225 | Base | | 1 |
| 26 | JOSS-S-226 | Strain Relief | PG 9 | 1 |
| 27 | JOSS-S-227 | Sponge Strip | 10*2*470mm | 2 |
| 28 | JOSS-S-228 | Edging Strip (for 4" Rubber Drum) | | 2 |
| 29 | JOSS-S-229 | Edging Strip (for 1" Rubber Drum) | | 2 |
| 30 | JOSS-S-230 | Edging Strip (for 1-1/2" Rubber Drum) | | 2 |
| 31 | JOSS-S-231 | Edging Strip (for 2" Rubber Drum) | | 2 |
| 32 | JOSS-S-232 | Edging Strip (for 3" Rubber Drum) | | 2 |
| 33 | JOSS-S-233 | Table Insert (for 1/4"-3/4" Spindle) | | 1 |
| 34 | JOSS-S-234 | Table Insert (for 1", 1-1/2", 2" Rubber Drum) | | 1 |
| 35 | JOSS-S-235 | Table Insert (only for 3/8" spindle at 90 deg.) | | 1 |
| 36 | JOSS-S-236 | Table Insert (only for 2" Rubber Drum at 90 deg.) | | 1 |
| 37 | JOSS-S-237 | Table Insert (only for 4" Rubber Drum at 90 deg.) | | 1 |
| 38 | JOSS-S-238 | Table Insert for 3", 4" Rubber Drum | | 1 |
| 39 | JOSS-S-239 | Spindle Seat | | 1 |
| 40 | JOSS-S-240 | Sponge Strip | 10*2*235mm | 1 |
| 41 | JOSS-S-241 | Cabinet Door | | 1 |
| 42 | JOSS-S-242 | Door Pivot | | 1 |
| 43 | JOSS-S-243 | Compression Spring | | 1 |
| 44 | JOSS-S-244 | Retainer Ring | ETW-5 | 1 |
| 45 | JOSS-S-245 | Door Latch | | 1 |
| 46 | JOSS-S-246 | Motor Label | | 1 |
| 47 | JOSS-S-247 | ID Label | | 1 |
| 48 | JOSS-S-248 | Shaft Size Indication Label | | 1 |
| 49 | JOSS-S-249 | Edging Strip (for 5/8", 3/4" Shaft) | | 1 |
| 50 | JOSS-S-250 | Edging Strip (for 1/4", 3/8", 1/2" Shaft) | | 1 |
| 51 | TS-1550061 | Flat Washer | M8 | 1 |
| | JET-92 | JET Logo (not shown) | 92x38mm | 1 |

12.3.1 JOSS-S Spindle and Drum Assembly– Exploded View

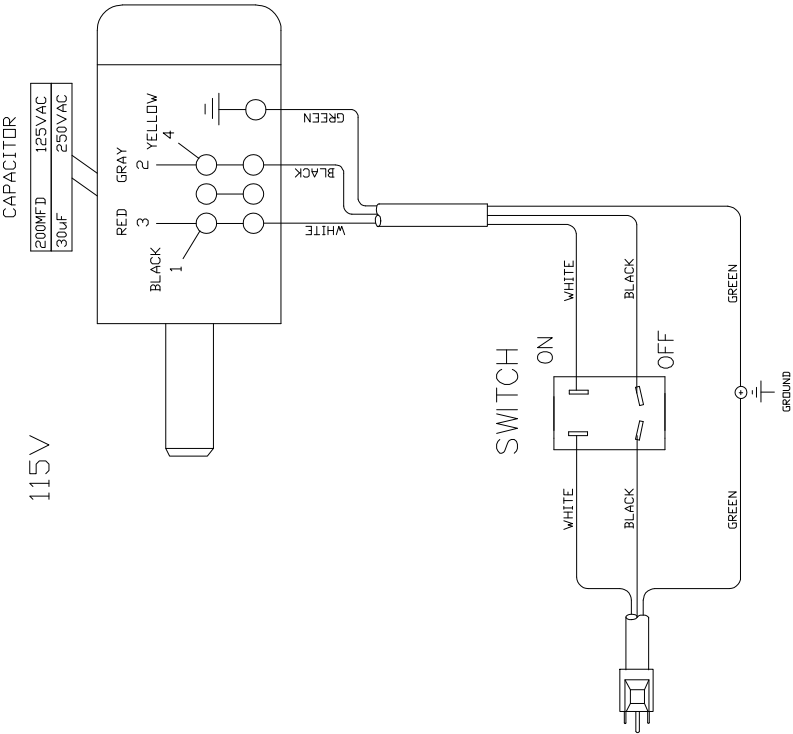
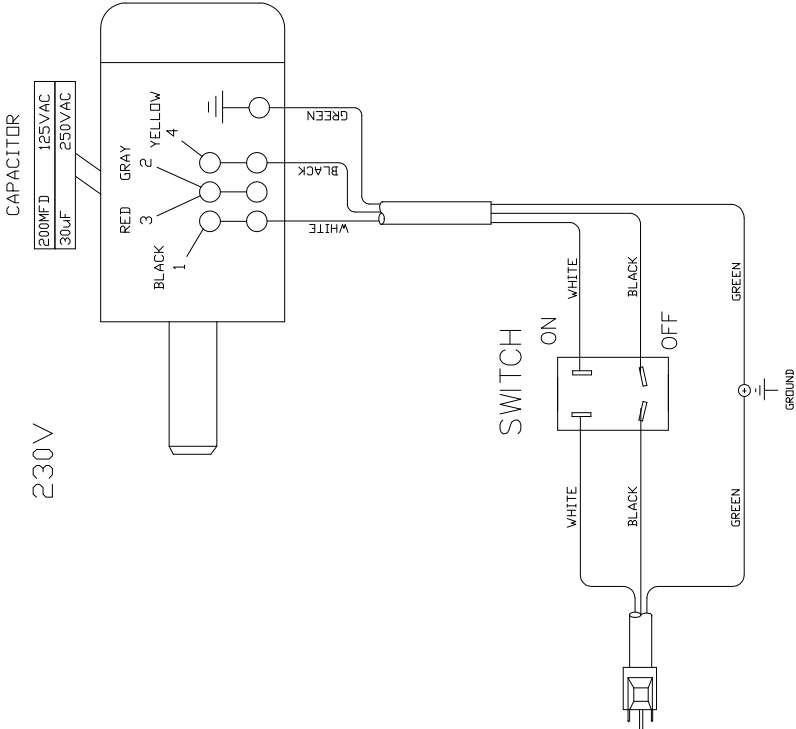


12.3.2 JOSS-S Spindle and Drum Assembly– Parts List

| Index No. | Part No. | Description | Size | Qty |
|-----------|-------------|--|-------------|-----|
| 1 | JOSS-S-301 | Combination Wrench | | 1 |
| 2 | JOSS-S-302 | Magnet (Large) | | 1 |
| 3 | TS-152704 | Hex Wrench | 3mm | 1 |
| 4 | JOSS-S-304 | Magnet (Small) | | 1 |
| 5 | TS-0571082 | Hex Nut | 3/4"-16UNF | 1 |
| 6 | JOSS-S-306 | Special Nut | | 5 |
| 7 | JOSS-S-307 | Pin | 5*25 | 5 |
| 8 | TS-2276081 | Socket Set Screw | M6*1.0P*8L | 4 |
| 9 | JOSS-S-309 | Retaining Ring | STW-17 | 4 |
| 10 | JOSS-S-310A | Spindle Assembly (incl. #6, 7, 8, 9, 11, 13 & 100G sleeve) | 1/4" | 1 |
| 11 | JOSS-S-311A | Spindle | 1/4" | 1 |
| 12 * | 575891 | Sanding Sleeve (60 Grit) – 4 pack | 1/4" x 6" | |
| | 575893 | Sanding Sleeve (100 Grit) – 4 pack | 1/4" x 6" | |
| | 575894 | Sanding Sleeve (150 Grit) – 4 pack | 1/4" x 6" | |
| 13 | JOSS-S-313 | Collar (for 1/4" Spindle Assembly) | | 1 |
| 14 | JOSS-S-314 | Spindle Assembly (incl. #6, 7, 8, 9, 15, 17 & 100G sleeve) | 3/8" | 1 |
| 15 | JOSS-S-315 | Spindle | 3/8" | 1 |
| 16 | 575896 | Sanding Sleeve (60 Grit) – 4 pack | 3/8" x 6" | |
| | 575898 | Sanding Sleeve (100 Grit) – 4 pack | 3/8" x 6" | |
| | 575899 | Sanding Sleeve (150 Grit) – 4 pack | 3/8" x 6" | |
| 17 | JOSS-S-317 | Collar (for 3/8" Spindle Assembly) | | 1 |
| 18 | JOSS-S-318 | Spindle Assembly (incl. #6, 7, 8, 9, 19, 21 & 100G sleeve) | 1/2" | 1 |
| 19 | JOSS-S-319 | Spindle | 1/2" | 1 |
| 20 | 575901 | Sanding Sleeve (60 Grit) – 4 pack | 1/2" x 6" | |
| | 575903 | Sanding Sleeve (100 Grit) – 4 pack | 1/2" x 6" | |
| 21 | JOSS-S-321 | Collar (for 1/2" Spindle Assembly) | | 1 |
| 22 | JOSS-S-322 | Spindle Assembly (incl. #6, 7, 8, 9, 23, 25 & 100G sleeve) | 5/8" | 1 |
| 23 | JOSS-S-323 | Spindle | 5/8" | 1 |
| 24 | 575906 | Sanding Sleeve (60 Grit) – 4 pack | 5/8" x 6" | |
| | 575908 | Sanding Sleeve (100 Grit) – 4 pack | 5/8" x 6" | |
| | 575909 | Sanding Sleeve (150 Grit) – 4 pack | 5/8" x 6" | |
| 25 | JOSS-S-325 | Collar (for 5/8" Spindle Assembly) | | 1 |
| 26 | JOSS-S-326 | Spindle Assembly (incl. #6, 7, 27 & 100G sleeve) | 3/4" | 1 |
| 27 | JOSS-S-327 | Spindle | 3/4" | 1 |
| 28 | 575911 | Sanding Sleeve (60 Grit) – 4 pack | 3/4" x 9" | |
| | 575913 | Sanding Sleeve (100 Grit) – 4 pack | 3/4" x 9" | |
| | 575914 | Sanding Sleeve (150 Grit) – 4 pack | 3/4" x 9" | |
| 29 | JOSS-S-329 | Self Tapping Screw | M3*12L | 12 |
| 30 | JOSS-S-330 | Drum Assembly (incl. #31 & 100G sleeve) | 1" | 1 |
| 31 | JOSS-S-331 | Rubber Drum | 1" | 1 |
| 32 | 575916 | Sanding Sleeve (60 Grit) – 4 pack | 1" x 9" | |
| | 575918 | Sanding Sleeve (100 Grit) – 4 pack | 1" x 9" | |
| | 575919 | Sanding Sleeve (150 Grit) – 4 pack | 1" x 9" | |
| 33 | JOSS-S-333 | Drum Assembly (incl. #34 & 100G sleeve) | 1-1/2" | 1 |
| 34 | JOSS-S-334 | Rubber Drum | 1-1/2" | 1 |
| 35 | 575926 | Sanding Sleeve (60 Grit) – 4 pack | 1-1/2" x 9" | |
| | 575928 | Sanding Sleeve (100 Grit) – 4 pack | 1-1/2" x 9" | |
| | 575929 | Sanding Sleeve (150 Grit) – 4 pack | 1-1/2" x 9" | |
| 36 | JOSS-S-336 | Drum Assembly (incl.#29, 37, 39, & 100G sleeve) | 2" | 1 |
| 37 | JOSS-S-337 | Rubber Drum | 2" | 1 |
| 38 | 575936 | Sanding Sleeve (60 Grit) – 4 pack | 2" x 9" | |
| | 575938 | Sanding Sleeve (100 Grit) – 4 pack | 2" x 9" | |
| | 575939 | Sanding Sleeve (150 Grit) – 4 pack | 2" x 9" | |
| 39 | JOSS-S-339 | Washer | 2" | 2 |
| 40 | JOSS-S-340 | Drum Assembly (incl.#29, 41, 43 & 100G sleeve) | 3" | 1 |
| 41 | JOSS-S-341 | Rubber Drum | 3" | 1 |

| Index No. | Part No. | Description | Size | Qty |
|-----------|------------|--|---------|-----|
| 42 | 575946 | Sanding Sleeve (60 Grit) – 4 pack | 3" x 9" | |
| | 575948 | Sanding Sleeve (100 Grit) – 4 pack | 3" x 9" | |
| | 575949 | Sanding Sleeve (150 Grit) – 4 pack | 3" x 9" | |
| 43 | JOSS-S-343 | Washer | 3" | 2 |
| 44 | JOSS-S-344 | Drum Assembly (incl.#29, 45, 47 & 100G sleeve) | 4" | 1 |
| 45 | JOSS-S-345 | Rubber Drum | 4" | 1 |
| 46 | 575951 | Sanding Sleeve (60 Grit) – 4 pack | 4" x 9" | |
| | 575953 | Sanding Sleeve (100 Grit) – 4 pack | 4" x 9" | |
| | 575954 | Sanding Sleeve (150 Grit) – 4 pack | 4" x 9" | |
| 47 | JOSS-S-347 | Washer | 4" | 2 |

13.0 Electrical Connections – JOSS-S Spindle Sander





427 New Sanford Road
LaVergne, Tennessee 37086
Phone: 800-274-6848
www.jettools.com