

Operating Instructions and Parts Manual Belt (2x42") and Disc (8") Sander Model J-41002



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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.

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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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- 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 by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a 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 sander. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
- 7. Before operating this sander, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and 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. If there is a tendency for the machine to tip over or move during operation, such as when sanding long or heavy boards, the machine must be securely fastened to a supporting surface.
- 16. 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.
- 17. Provide for adequate space surrounding work area and non-glare, overhead lighting.
- 18. Keep the floor around the machine clean and free of scrap material, oil and grease.
- 19. Keep visitors a safe distance from the work area. Keep children away.
- 20. Make your workshop child proof with padlocks, master switches or by removing starter keys.
- 21. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
- 22. Maintain a balanced stance at all times so that you do not fall or lean against the abrasives or other moving parts. Do not overreach or use excessive force to perform any machine operation.
- 23. 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 safer.
- 24. Make sure the abrasive belt is running in the proper direction. When disc sanding, place the workpiece against the downward rotating part of the abrasive disc.

- 25. This machine can be used for sanding wood or metal products. However, combining wood dust and metal filings can create a fire hazard. Make sure your dust collector is free of wood dust deposits before processing metal products.
- 26. Use recommended accessories; improper accessories may be hazardous.
- 27. Maintain tools with care. Follow instructions for lubricating the machine and changing accessories.
- 28. Abrasive discs must be stored in a controlled environment. Relative humidity should be 35% to 50% and the temperature should be between 60° and 80° Fahrenheit. Failure to do this could cause premature disc failure.
- 29. Examine the face of the abrasive disc or belt carefully. Excessive sanding that wears down to the backing material can tear the disc/belt. Never use an abrasive which shows backing, nicks or cuts on the surface or edge, or damage due to creasing or poor handling.
- 30. Turn off the machine before cleaning. Use a brush or compressed air to remove chips or debris do not use your hands.
- 31. Never leave the machine running unattended. Turn the power off and do not leave the machine until it comes to a complete stop.
- 32. Do not use the sander in wet or damp locations.
- 33. Remove loose items and unnecessary work pieces from the area before starting the machine.

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

WARNING: Some dust, fumes and gases created by power sanding, sawing, grinding, drilling, welding and other construction activities contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead based paint
- crystalline silica from bricks, cement and other masonry products
- arsenic and chromium from chemically treated lumber

Your risk of exposure varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment, such as dust masks that are specifically designed to filter out microscopic particles. For more information go to http://www.p65warnings.ca.gov/ and http://www.p65warnings.ca.gov/wood.

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

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

AWARNING This means that if precautions are not heeded, it may result in serious injury or possibly even death.

-- SAVE THESE INSTRUCTIONS --

Introduction

This manual is provided by JET covering the safe operation and maintenance procedures for a JET 2x42x8 Belt and Disc Sander. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. This machine has been designed and constructed to provide consistent, long-term operation if used in accordance with instructions set forth in this manual. If there are any questions or comments, please contact either your local supplier or JET. JET can also be reached at our web site: www.jettools.com.

Specifications

| Model Number | J-41002 |
|------------------------------------|----------------------|
| Stock Number | |
| Belt Size (in.)(LxW) | |
| Belt Speed (SFPM) | |
| Disc Size (in.) | 8 diameter |
| Disc Speed (RPM) | |
| Motor | |
| Belt Table Size (in.)(LxW) | |
| Disc Table Size (in.)(LxW) | |
| Disc Table Tilt (deg.) | |
| Dust Chutes (in.) | two @ 1-1/2 diameter |
| Overall Size (in.)(WxDxH) | |
| Approximate Net Weight (lbs.) | |
| Approximate Shipping Weight (lbs.) | |
| | |

The above specifications were current at the time this manual was published, 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.

Features and Terminology



Unpacking

Open shipping container and check for shipping damage. Report any damage immediately to your distributor and shipping agent. Do not discard any shipping material until the sander is assembled and running properly.

Compare the contents of your container with the following parts list to make sure all parts are intact. Missing parts, if any, should be reported to your distributor. Read the instruction manual thoroughly for assembly, maintenance and safety instructions.

Contents of the Shipping Container

- 1 Belt and Disc Sander
- 1 Belt Table
- 1 Disc Table with trunnions
- 1 Miter Gauge
- 1 Dust Chute
- 6 Phillips Pan Hd. Machine Screws, 3/16x3/8"
- 3 Handles
- 3 Flat Washers, 3/8"
- 1 Tension Handle
- 1 Hex Nut, 1/4"
- 3 Hex Wrenches, 3, 4 and 6mm
- 1 Owner's Manual
- 1 Warranty Card



Read and understand the entire contents of this manual before attempting set-up or operation! Failure to comply may cause serious injury.

Assembly

Tools needed for assembly:

- 10mm open-end wrench
- Cross-point (Phillips) screwdriver
- Combination square, or similar angle measuring device.

AWARNING Sander must be unplugged from power source during assembly.

Remove the protective coating from the surfaces of the sander and from any loose parts. This coating may be removed with a soft cloth moistened with kerosene (do not use acetone, gasoline or lacquer thinner for this purpose). After cleaning, cover the table surfaces with a good quality paste wax.

Leave enough space around the sander for long workpieces and for general maintenance.

If needed, the sander can be bolted to a table or workbench using the holes in the base. If the sander has a tendency to walk or slide during operation, it must be bolted to a supporting surface.

Installing Belt Table

- 1. Unscrew the stud. See Figure 1.
- 2. Position the bracket of the belt table over the holes in the casting as shown, and re-install the stud into its hole.
- 3. Place a flat washer onto a handle, and insert the handle through the table bracket and into the hole. Screw the handle all the way into the hole.

NOTE: The handle is spring loaded; screw the handle in by rotating clockwise, then pull outward on the handle. Rotate the handle back to position, then release it, making sure it seats itself upon the pin. Continue the process until the handle is tightened in the hole.

Installing Dust Chute

The sander has two 1-1/2" diameter dust chutes. The dust chute for the belt is located on the belt cover. The dust chute for the disc should be installed as shown in Figure 2, using the six (6) pan head machine screws that are provided.

The dust chutes can be connected to a vacuum system to collect dust particles.



Figure 1



Figure 2

Installing Disc Table

- 1. Position the disc table at an angle, as shown in Figure 3, and slide the table on so that the trunnion slots fit over the raised tracks on the disc guard.
- 2. Install a flat washer onto each of the two remaining handles. Insert the handle into the holes through the left and right trunnions. See Figure 4.
- 3. The gap between the sanding disc and the disc table should be a maximum of 1/16". If it is larger than this, loosen the two socket head cap screws on the disc guard (one is shown in Figure 4) and slide the disc guard to achieve this gap measurement.
- 4. When finished, tighten the two socket head cap screws securely.



Figure 3



Figure 4



Figure 5

miter slot in the disc table. See Figure 5.

Installing Miter Gauge

The miter gauge can be used in either direction in the slot to achieve the most effective positioning of the workpiece against the abrasive disc.

Insert the miter gauge bar into one end of the

Installing Tension Handle

- 1. Place the 1/4" hex nut onto the threads of the tension handle.
- 2. Screw the tension handle into the hole on the hub, then tighten the hex nut against the hub. See Figure 6.



Figure 6

Grounding Instructions

AWARNING This machine must be grounded while in use to protect the operator from electric shock.

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 inserted into a matching receptacle 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 equipmentgrounding 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 equipmentgrounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

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

115 Volt Operation

As received from the factory, your sander is ready to run at 115 volt operation. This sander is intended for use on a circuit that has an outlet and a plug that looks like the one illustrated in Figure 7.



Figure 7

A temporary adapter, like the adapter in Figure 8, may be used to connect this plug to a twopole receptacle, as shown in Figure 8, if a properly grounded outlet is not available. The temporary adapter should only be used until a properly grounded outlet can be installed by a qualified electrician. **This adapter is not applicable in Canada.** The green colored rigid ear, lug, or tab, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box, as shown in Figure 8.



Figure 8

Extension Cords

Use proper extension cords. Make sure the cord rating is suitable for the amperage of the machine's motor. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

Use the chart in Figure 9 as a general guide in choosing the correct size cord. The smaller the gauge number, the heavier the cord.

Recommended Gauges (AWG) of Extension Cords

| | Extension Cord Length * | | | | | |
|----------|-------------------------|------------|------------|-------------|-------------|-------------|
| Amps | 25 feet | 50 feet | 75 feet | 100 feet | 150 feet | 200 feet |
| < 5 | 16 | 16 | 16 | 14 | 12 | 12 |
| 5 to 8 | 16 | 16 | 14 | 12 | 10 | NR |
| 8 to 12 | 14 | 14 | 12 | 10 | NR | NR |
| 12 to 15 | 12 | 12 | 10 | 10 | NR | NR |
| 15 to 20 | 10 | 10 | 10 | NR | NR | NR |
| 21 to 30 | 10 | NR | NR | NR | NR | NR |

*based on limiting the line voltage drop to 5V at 150% of the rated amperes.

NR: Not Recommended.

Figure 9

Adjustments

Tilting the Belt Table

The belt table tilts from zero (horizontal) down to 45°.

- 1. Loosen the handle and adjust the table into desired position.
- 2. Check the angle with a machinist's protractor or similar measuring device that has the required angle. Figure 10 shows a square being used to confirm the zero, or horizontal, position. Place the square flat on the table and against the belt. Push against the belt until the square is against the platen.
- 3. Make any adjustments to the table angle as necessary until it is square with the belt.
- 4. Tighten the handle securely.

AWARNING To avoid trapping the workpiece or fingers between the table and abrasive belt, the table edge should be positioned a maximum of 1/16" from the abrasive belt.

Tilting the Disc Table

The disc table tilts from zero (horizontal) down to 45°.

- Loosen both handles and adjust the table until the indicator lines up with the desired angle on the scale. It is a good idea to confirm this angle using your angle measuring device placed flat upon the table and against the abrasive disc.
- 2. Figure 11 shows a square being used to confirm the zero, or horizontal position of the disc table.
- 3. Make any necessary adjustments to the table angle. If the table is square with the disc but the angle indicator needs slight adjustment, loosen the screw on the indicator and shift the indicator as needed. Re-tighten the screw.
- 4. Tighten both handles securely.

AWARNING To avoid trapping the workpiece or fingers between the table and abrasive disc, the table edge should be positioned a maximum of 1/16" from the abrasive disc.



Figure 10



Figure 11

Use of the Miter Gauge

The miter gauge is used to sand accurate angles on workpieces. When using the miter gauge on the horizontal table position, you can sand a single angle. By tilting the disc table and using the miter gauge in combination with the table tilted, it is possible to sand compound angles as well.

The miter gauge rotates to 30° for bevel sanding. Loosen the knob and rotate the gauge body until the pointer lines up with the desired angle on the scale.

Use a square to confirm that the miter gauge is set at 90° (perpendicular to the disc). See Figure 12. If slight adjustment is needed:

- 1. Loosen the knob.
- 2. Adjust the miter gauge body until it is flush with the square, and the square is flush with the disc.
- 3. Tighten the knob.
- 4. Loosen the screw on the pointer and adjust the pointer until it aligns with 90° on the scale.
- 5. Tighten the screw on the pointer.



Figure 12

Belt Platen

The belt platen (Figure 13) is used to properly support the workpiece while sanding. The platen is constructed of heavy steel to provide adequate support.

The platen should be adjusted so it is almost touching the back of the abrasive belt. Loosen the socket head cap screw and adjust the platen to the desired position. Tighten the screw to secure the platen.

The platen can be removed for operations such as stripping, contour sanding, polishing or other special operations. To remove the platen, remove the socket head cap screw and washer.

Be sure to re-install the platen to perform operations where support of the belt is required.



Figure 13

Abrasive Belt Replacement

- 1. Unplug the Sander from the power source.
- 2. Unscrew and remove the two knobs on the belt cover.
- 3. Remove the belt cover.
- 4. Rotate the tension handle (Figure 6) to loosen the belt, and remove the old belt from around the wheels.
- 5. Install the new belt around the wheels.

IMPORTANT: Some sanding belts have a directional arrow printed on the inside of the belt. In these cases, the belt must be installed so the directional arrow is in the same direction that the machine is running. Refer to the rotation arrow on top of the belt cover.

- 6. Install the belt cover and the two knobs.
- 7. Start the sander and check the belt tracking before sanding operations (See "Tracking the Abrasive Belt").

Tracking the Abrasive Belt

"Tracking" refers to the manner in which the abrasive belt is positioned on the wheels during operation. The belt should remain in vertical position without shifting to one side or the other of the wheel. If any shifting occurs, the belt needs to be tracked properly, as follows:

- 1. Disconnect sander from power source.
- 2. Remove the side cover, and make sure the belt is placed evenly over the center of the wheels. Loosen the tension and re-position the belt if necessary. Re-install the side cover.
- 3. Move the belt by rotating the disc with your hand (do not turn on the power yet). Observe the movement of the belt on the top wheel.
- 4. If the belt slips to one side or the other, loosen the hex nut (Figure 14) with a 10mm open-end wrench.
- 5. Rotate the tracking screw (Figure 14) with a 5mm hex wrench. If the belt is sliding toward the right, rotate the screw clockwise. If the belt is sliding toward the left, rotate the screw counterclockwise.
- 6. Continue this procedure in small increments until the belt is tracking properly when moved by hand.
- 7. Re-connect the sander to power, and cycle the on/off switch quickly to double check the tracking.



Figure 14

- 8. Re-connect the sander to power, and cycle the on/off switch quickly to double check the tracking.
- 9. Make further adjustments as needed.
- 10. Tighten the hex nut to secure the setting.

Abrasive Disc Replacement

- 1. Unplug the sander from the power source.
- 2. Remove the dust cover and the disc table. To remove the disc table, remove the handles then tilt the disc table upward while pulling it away from the disc.
- 3. Peel off the old abrasive disc.
- 4. Thoroughly clean the aluminum disc surface using naptha or a similar non-flammable solvent that will dry film-free.
- 5. Pull the protective backing half-way off the new abrasive disc.
- 6. Carefully position the new abrasive disc so it is centered accurately on the aluminum disc.
- 7. When accurately centered, remove the rest of the protective backing and press the abrasive disc firmly against the aluminum disc so complete adhesive contact is made.
- 8. Re-install dust cover and table.
- 9. Reconnect sander to power source.

Aluminum Disc Removal

The aluminum disc can be easily removed if needed; for example, to facilitate cleaning the aluminum disc when replacing abrasive discs.

- 1. Unplug sander from the power source.
- 2. Remove the disc table and the dust chute.
- Rotate the disc until the set screw is accessible through the opening behind the disc guard. See Figure 15. You may need to loosen the socket head cap screws (see Figure 4) on the guard and shift it forward in order to clear the set screw.
- 4. Loosen the set screw with a 3mm hex wrench, and pull the aluminum disc off the motor shaft.
- 5. When re-mounting the aluminum disc, make sure the key is properly seated in the keyway on the motor shaft. Tighten the set screw firmly when the disc has been mounted.



Figure 15

Operation

This sander is intended for dry sanding of metals. Do not use lubricants.

AWARNING Do not sand or polish magnesium; it may create a fire hazard. Also, do not sand very small or very thin workpieces that cannot be safely controlled.

Starting and Stopping the Sander

The on/off switch is located on the side of the motor housing. Move the switch upward to the ON position to start the sander. Move the switch downward to the OFF position to stop the sander.

When the sander is not being used, the switch can be locked in OFF position to prevent unauthorized use. Pull out the locking tab and store in a safe place. See Figure 16. The switch will not operate with the locking tab removed.

To use the sander, re-insert the locking tab.

Belt and Disc Movement

When the machine is turned on, the abrasive belt should be moving downward and the disc rotating clockwise. The motor is wired at the factory for correct rotation.

The workpiece should not contact the disc or belt during start-up. Before sanding, always allow the motor to come up to operating speed, then observe the disc for wobble, runout, or any unbalanced condition. If the disc is not operating accurately and smoothly, stop the motor and make repairs before attempting any sanding operations.

Always sand on the side of the abrasive disc that rotates downward. Sanding on the upward rotation side can cause the workpiece to catch and fly out of your hands.

The table must be a maximum of 1/16" away from the abrasive disc or belt.

Typical Operations

When sanding a compound angle you should check the accuracy of your setup by sanding a piece of scrap material before doing any finish sanding on the actual workpiece.

Figure 17 demonstrates a basic method of operation using the miter gauge and disc table:

1. Set the angle you wish to sand using the scale on the miter gauge.



Figure 16



Figure 17

- 2. Tighten the miter gauge securely so the miter reference angle will not shift while you are sanding.
- 3. Place the workpiece against the miter reference surface and slide it along the miter reference surface and into the sanding disc.

The following are just some of the many operations that can be performed with your JET Sander.

- Sharpening a wood chisel on the sanding belt using a block of wood. Use the block of wood to support the chisel and provide clearance for the chisel handle. See Figure 18. Sand a bevel in the block of wood in order to position the block as close as possible to the sanding belt and clamp the block to the table.
- A cold chisel can also be sharpened on the belt table with the table tilted.
- Sanding aluminum on the disc unit with the table tilted and using the miter gauge as a guide. See Figure 19.

Sanding outside curves on the belt unit with

Polishing using a felt belt (not provided) in

the platen removed. See Figure 20.

Note: Most polishing operations

performed with the platen removed.

place of the sanding belt.



Figure 18



Figure 19

Figure 20



Figure 21

• Sanding in tight areas with the sanding belt. See Figure 21.

are

Maintenance

AWARNING Before performing any maintenance on the machine, disconnect it from the electrical supply by pulling out the plug or switching off the main switch. Failure to comply may cause serious injury.

Keep the table surfaces clean and free of rust. If rust appears on the tables, use 000 steel wool with a paste mixture of household ammonia and good commercial detergent (or use a commercial rust remover available from most hardware stores.)

A light coat of paste wax on the tables will help protect them from tarnish and reduce friction between table and workpiece.

Note: Do not get paste wax on the abrasive belt or disc.

Check all fasteners for tightness.

Inspect the power cord; if worn, cut, or damaged in any way, have it replaced immediately.

Inspect the abrasive belt and disc. If either is worn, replace it.

Occasionally remove the belt cover and brush out any shavings or debris from around the wheels.

Lubrication

All of the ball bearings are packed with grease and sealed at the factory. They require no further lubrication.

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.

Non-proprietary parts, such as fasteners, can be found at local hardware stores, or may be ordered from JET. Some parts are shown for reference only, and may not be available individually.

Troubleshooting

| Trouble | Probable Cause | Remedy | | |
|--|---|--|--|--|
| Sander will not start. | Not connected to power source. | Connect to power source. | | |
| | Branch circuit fuse is blown or the circuit breaker is tripped. | Determine reason for blown fuse/ tripped breaker (such as short circuit or motor overload). Correct reason for fault. Replace fuse/ reset circuit breaker. | | |
| | Voltage is too low. | Check power source for proper voltage. | | |
| | Switch is defective. | Replace switch. | | |
| | Motor failure. | Replace motor. | | |
| Motor stalls easily. | Low voltage. | Check power source for proper voltage and correct if necessary. | | |
| Abrasive disc separates from aluminum disc. | Improper bond. | Clean residual adhesive from aluminum disc, and re-apply adhesive-backed abrasive disc. | | |
| | Belt not centered on wheels. | Readjust tracking. See page 14. | | |
| Abrasive belt will not track correctly. | Belt stretched unevenly. | Replace abrasive belt. | | |
| | Belt is jointed improperly. | Check the belt for an irregular seam or shape. Replace if needed. | | |
| | Wheel is worn. | Replace affected wheel. | | |
| | Worn bearings. | Check all the bearings for excessive heat or loose shafts. Replace if necessary. | | |
| Abrasive belt slips or | Abrasive belt tension inadequate; spring in tension mechanism is worn. | Replace spring. | | |
| is applied. | Excessive pressure being applied to platen. | Reduce pressure on abrasive belt (and platen). | | |
| Frequent replacement of abrasive belt or disc. | Too much pressure being applied to workpiece. | Allow the belt to do the cutting. Excessive pressure only dulls the grit and removes it from the cloth. | | |
| | Full width of belt or disc not being used. | Stroke across abrasive belt using full width of belt surface. | | |
| | Incorrect abrasive material or grit size. | Check with your abrasives supplier for recommendations on the type and coarseness of the abrasive required for your particular workpieces. | | |

Assembly Drawing



| Index No. | Part No. | Description | Size | Qty |
|-----------|------------------|---|----------------------|---------|
| 1 | .J-41002-01G | .Base | | 1 |
| 2 | .TS-0680042 | .Flat Washer | 3/8" | 2 |
| 3 | .TS-1551031 | .Lock Washer | M5 | 4 |
| 4 | .TS-1515041 | Socket Head Cap Screw | M8x30 | 4 |
| 5 | .TS-0050021 | Hex Cap Screw | 1/4-20x5/8" | 4 |
| 6 | TS-0720081 | Lock Washer | 5/16" | 4 |
| 7 | 41002-07 | Rubber Foot | 0, 10 | 4 |
| 8 | TS-0680021 | Flat Washer | 1/ <u>4</u> " | 4 |
| ٥ | TS-0570011 | Hex Nut | 1/4"-20 | T |
| 10 | TS-1525021 | Socket Set Screw | M10v12 | |
| 10 | /1007_11 | Capacitor Cap | INTOX 12 | 1 |
| 12 | 41002-11 | Capacitor | 20uE 200\/ | 1 |
| 12 | | Cross Head Elat Saraw | 10 24v2/0" | I 6 |
| 13 | . HD3014GH-100-3 | Consolitor Clown | 10-24x3/0 | 0 |
| 14 | .41002-14 | | 4 / 4" 00 | 1 |
| 15 | .15-05/0011 | Hex Nut | 1/4 -20 | 4 |
| 10 | .15-0/200/1 | LOCK Washer | 1/4 | 4 |
| 17 | .15-1504051 | Socket Head Cap Screw | IVI8X25 | 4 |
| 18 | .41002-18 | Strain Relief Plate | | 1 |
| 19 | .41002-19 | Strain Relief | 6N-4 | 1 |
| 20 | .41002-20 | Line Cord | ••••• | 1 |
| 22 | .41002-22 | Strain Relief Bushing | | 1 |
| 23 | .41002-23 | .Self Tapping Screw | 10-24X3/8" | 2 |
| 24 | .J-41002-24G | .Motor Housing Base | | 1 |
| 24A | .J-41002-24A1G | .Motor Assembly | 115V, 1Ph | 1 |
| 25 | .41002-25 | .Switch with Key | | 1 |
| 26 | .41002-26 | .Copper Washer | | 1 |
| 27 | .TS-081C022 | .Phillips Pan Head Machine Screw | 10-24x3/8" | 1 |
| 28 | .TS-1540031 | .Hex Nut | M5 | 4 |
| 29 | .J-41002-29G | .End Shield | | 2 |
| 30 | .BB-6203ZZ | Bearing | 6203ZZ | 2 |
| 31 | .41002-31 | .Motor Fan | | 1 |
| 32 | .41002-32 | Armature | | 1 |
| 33 | .41002-33 | .Stator | | 1 |
| 34 | .41002-34 | Pan Head Screw | 1/4-20x7/8" | 4 |
| 35 | .J-41002-35G | Motor Housing | | 1 |
| 36 | 41002-36 | Pan Head Screw | M5x0.8x163 | |
| 37 | 41002-37 | Bar | | 1 |
| 38 | 41002-38 | Pointer | | 1 |
| 39 | HRS814GH-200 | Phillips Pan Head Machine Screw | 1/4x3/8" | 1 |
| 40 | 41002-40 | Miter Body | 1/4/0/0 | 1 |
| 40 /1 | /1002 40 | Knob | | 1 |
| 47 | TS-2361081 | Lock Washer | M8 | 2 |
| 42 | /1002_/2 | Miter Gauge Assembly (includes index 37 thru 4) | 1 00 100 | Z |
| 43 | TS-1534052 | Phillips Pap Head Machine Screw | 1, 99, 100) M6v15 | 1 |
| 44 | 1 J 1002 JEC | Dise Table | | 4 |
| 45 | .J-41002-45G | Armatura Guard | | 1 |
| 40 | 41002-40 | Handla | | ····· I |
| 47 | .41002-47 | .Handle | | 3 |
| 48 | .J-41002-48G | | | 1 |
| 49 | .J-41002-49G | . DISC GUARD | | 1 |
| 50 | . 1 S-1540061 | | NIX | 4 |
| 51 | .41002-51 | Aluminum Disc | δ | 1 |
| 52 | .6291479 | .Key | 5x5x30mm | 1 |
| 53 | .5640211 | Abrasive Disc, 100 grit | 8" | 1 |
| 54 | .41002-54 | .Dust Chute | | 1 |
| 55 | .J-41002-55G | Left Trunnion | | 1 |
| 56 | .TS-1523011 | .Socket Set Screw | M6x6 | 1 |

Parts List

| 57 | TS-1505021 | .Socket Head Cap Screw | . M10x20 | 2 |
|-----|-------------|---------------------------|-------------------|---|
| 58 | J-41002-58G | .Belt Housing | | 1 |
| 59 | TS-0680031 | .Flat Washer | . 5/16" | 4 |
| 60 | TS-0570011 | .Hex Nut | . 1/4"-20 | 1 |
| 61 | TS-1490021 | .Hex Cap Screw | . M8x16 | 2 |
| 62 | TS-0680031 | .Flat Washer | . 5/16" | 3 |
| 63 | 41002-63 | .Belt Table Bracket | | 1 |
| 64 | J-41002-64G | .Belt Table | | 1 |
| 65 | TS-1524031 | .Socket Set Screw | . M8x12 | 1 |
| 66 | 41002-66 | .Shaft | | 1 |
| 67 | BB-6202ZZ | .Bearing | . 6202ZZ | 4 |
| 68 | 41002-68 | Idler Wheel | | 2 |
| 69 | | .Retaining Ring | . S-15 | 2 |
| 70 | 41002-70 | .Abrasive Belt | . 100 Grit 2"x42" | 1 |
| 71 | 41002-71 | .Stand Off | | 2 |
| 72 | 41002-72 | .Drive Wheel | | 1 |
| 73 | TS-1523031 | .Socket Set Screw | . M6x10 | 1 |
| 74 | 41002-74 | .Belt Cover | | 1 |
| 75 | 41002-75 | .Knob | | 2 |
| 76 | 41002-76 | .Tracking Wheel Cam Shaft | | 1 |
| 77 | | .Retaining Ring | . S-17 | 1 |
| 78 | 41002-78 | .Tension Spring | | 1 |
| 79 | 41002-79 | .Spring Cap | | 1 |
| 80 | 41002-80 | .Handle with Knob | | 1 |
| 81 | 41002-81 | . Tracking Bracket | | 1 |
| 82 | TS-1540041 | .Hex Nut | M6 | 1 |
| 83 | TS-1503051 | .Socket Head Cap Screw | . M6x20 | 1 |
| 84 | 41002-84 | .Spring Plate | | 2 |
| 85 | TS-1502021 | .Socket Head Cap Screw | . M5x10 | 2 |
| 86 | TS-1502031 | Socket Head Cap Screw | . M5x12 | 2 |
| 87 | 41002-87 | .Belt Platen | - | 1 |
| 88 | TS-1504031 | .Socket Head Cap Screw | . M8x16 | 1 |
| 89 | TS-152707 | .Hex Wrench | M6 | 1 |
| 90 | TS-152705 | .Hex Wrench | M4 | 1 |
| 91 | TS-152704 | .Hex Wrench | .3mmx140L | 1 |
| 92 | TS-0680031 | .Flat Washer | . 5/16" | 4 |
| 93 | 41002-93 | .Pan Head Screw | . 10-24x1/4" | 3 |
| 94 | 41002-94 | Serrated Washer | M5 | 1 |
| 95 | | .Cable | . 18# 100m/m | 1 |
| 96 | | . Terminal | . A-3 | 1 |
| 97 | 41002-97 | .Cable | . 22# 200m/m | 1 |
| 98 | TS-0267041 | Socket Set Screw | . 1/4-20x3/8" | 1 |
| 99 | TS-1550031 | .Flat Washer | | 1 |
| 100 | TS-0680022 | Flat Washer | . 1/4" | 1 |
| 101 | 41002-101 | Indicator | | 1 |
| 102 | | Pan Head Screw | 10-24x1/4" | 1 |

Notes



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