

Operating Instructions and Parts Manual 17" Floor Drill Press

Model: JDP-17DX



WALTER MEIER (Manufacturing) Inc.

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Warranty and Service

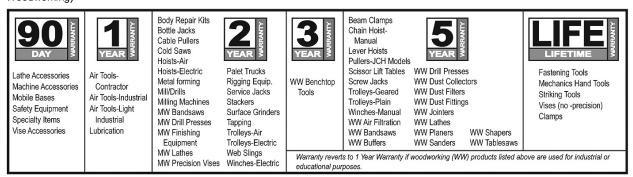
Walter Meier (Manufacturing) Inc., warrants every product it sells. If one of our tools needs service or repair, one of our Authorized Service Centers located throughout the United States can give you quick service. In most cases, any of these Walter Meier Authorized Service Centers can authorize warranty repair, assist you in obtaining parts, or perform routine maintenance and major repair on your JET® tools. For the name of an Authorized Service Center in your area call 1-800-274-6848.

MORE INFORMATION

Walter Meier is consistently adding new products to the line. For complete, up-to-date product information, check with your local Walter Meier distributor, or visit waltermeier.com.

WARRANTY

JET products carry a limited warranty which varies in duration based upon the product. (MW = Metalworking, WW = Woodworking)



WHAT IS COVERED?

This warranty covers any defects in workmanship or materials subject to the exceptions stated below. Cutting tools, abrasives and other consumables are excluded from warranty coverage.

WHO IS COVERED?

This warranty covers only the initial purchaser of the product.

WHAT IS THE PERIOD OF COVERAGE?

The general JET warranty lasts for the time period specified in the product literature of each product.

WHAT IS NOT COVERED?

Five Year Warranties do not cover woodworking (WW) products used for commercial, industrial or educational purposes. Woodworking products with Five Year Warranties that are used for commercial, industrial or education purposes revert to a One Year Warranty. This warranty does not cover defects due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair or alterations, or lack of maintenance.

HOW TO GET SERVICE

The product or part must be returned for examination, postage prepaid, to a location designated by us. For the name of the location nearest you, please call 1-800-274-6848.

You must provide proof of initial purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will repair or replace the product, or refund the purchase price, at our option.

We will return the repaired product or replacement at our expense unless it is determined by us that there is no defect, or that the defect resulted from causes not within the scope of our warranty in which case we will, at your direction, dispose of or return the product. In the event you choose to have the product returned, you will be responsible for the shipping and handling costs of the return.

HOW STATE LAW APPLIES

This warranty gives you specific legal rights; you may also have other rights which vary from state to state.

LIMITATIONS ON THIS WARRANTY

WALTER MEIER (MANUFACTURING) INC., LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG THE IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

WALTER MEIER 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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- 1. Read and understand the entire owners' manual before attempting assembly or operation.
- 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 drill press 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 drill press, do not use until proper training and knowledge have been obtained.
- 5. Do not use this drill press for other than its intended use. If used for other purposes, Walter Meier (Manufacturing) Inc., 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 drill press. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
- 7. Before operating this drill press, 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. Some dust created by power sanding, sawing, grinding, drilling and other construction activities contain chemicals known to cause cancer, 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 face or dust masks that are specifically designed to filter out microscopic particles.
- 10. Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
- 11. Make certain the switch is in the **OFF** position before connecting the machine to the power supply.
- 12. Make certain the machine is properly grounded.
- 13. Make all machine adjustments or maintenance with the machine unplugged from the power source.
- 14. 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.
- 15. 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.
- 16. Make sure the drill press is firmly secured to the floor or bench before use.
- 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. Don't use in dangerous environment. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
- 21. Keep visitors a safe distance from the work area. **Keep children away.**
- 22. Make your workshop child proof with padlocks, master switches or by removing starter keys.



- 23. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
- 24. Maintain a balanced stance at all times so that you do not fall or lean against the spindle or other moving parts. Do not overreach or use excessive force to perform any machine operation.
- 25. 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.
- 26. Use recommended accessories; improper accessories may be hazardous.
- 27. Maintain tools with care. Keep drill bits sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories.
- 28. Disconnect tools before servicing; when changing accessories, such as blades, bits, cutters and the like.
- 29. Make sure the work piece is securely attached or clamped to the table. Never use your hand to hold the work piece.
- 30. Turn off the machine before cleaning. Use a brush or compressed air to remove chips or debris do not use your hands.
- 31. Do not stand on the machine. Serious injury could occur if the machine tips over.
- 32. Never leave the machine running unattended. Turn the power off and do not leave the machine until it comes to a complete stop.
- 33. Remove loose items and unnecessary work pieces from the area before starting the machine.

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.

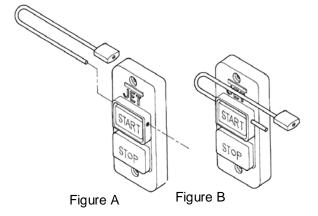
AWARNING This means that if precautions are not heeded, it may result in serious injury or possibly even death.

Switch Padlock

To safeguard your machine from unauthorized operation and to avoid accidental starting by young children, the use of a padlock is highly recommended. A padlock (stock no. 709012-A) is available from your local authorized JET distributor or by calling Walter Meier (Manufacturing) Inc., at 800-274-6848.

To lock out an on-off switch:

- 1. Open the padlock (Fig. A).
- 2. Insert through holes in the start button (Fig. B).
- 3. Close the padlock.
- 4. Place the key in a safe place.



Introduction

This manual is provided by Walter Meier (Manufacturing) Inc., covering the safe operation and maintenance procedures for the JET JDP-17DX Drill Press. 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 years of trouble free 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 Walter Meier. Walter Meier can also be reached at our web site: www.waltermeier.com.

Specifications

Model Number	JDP-17DX
Stock Number	354173
Swing (in.)	
Type	
Drilling Capacity (in.)	5/8
Chuck Size (in.)	
Spindle Travel (in.)	
Maximum Spindle Distance to Base (in.)	
Maximum Spindle Distance to Table (in.)	29-1/8
Table Size (in./WxD)	18-1/2 x 14-1/2
Table Insert (in.)	
Table Tilt (deg.)	+ or - 45
Spindle Taper	MT-2
Column Diameter (in.)	
Number of Spindle Speeds	16
Range of Spindle Speeds (RPM)	
Light Bulb (not included)	
Overall Height (in.)	12.1/2 × 10.5/9
Base Size (in.)	
MotorTEFC,	
Cord Length (ft.)	
Net Weight – approx. (lbs.)	200
Shipping Weight – approx. (lbs.)	

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

AWARNING Read and understand the entire contents of this manual before attempting assembly or operation! Failure to comply may cause serious injury!

Unpacking

Separate all parts from the packing material. Check each part against the *Contents of the Shipping Container* and make certain that all items are accounted for before discarding any packing material.

Contents of the Shipping Container

- A Head Assembly (1)
- B Table and Bracket Assembly (1)
- C Table Insert (1)
- D Base (1)
- E Column and Rack Assembly (1)
- F Downfeed Handle (3)
- G Arbor (1)
- H Drift Key (1)
- J Column Lock Handle (1)
- K Chuck Key (1)
- N Chuck (1)
- O M10 x 40 Hex Cap Screws (4)
- P Table Bracket Position Handle (1)
- -- Owner's Manual (1)
- -- Warranty Registration Card

Tools Supplied for Assembly

- L 3mm Hex Wrench
- M 5mm Hex Wrench

Tools Required for Assembly

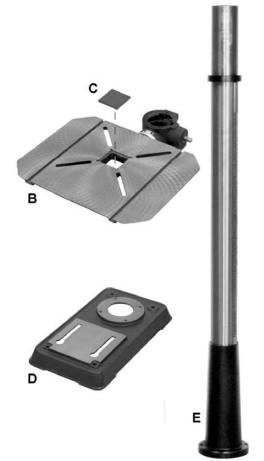
17mm Box Wrench or a 6"-8" Adjustable Wrench

AWARNING
Read and understand all assembly instructions before attempting assembly! Failure to comply may cause serious injury!

Before Assembly

- 1. Remove the contents from the shipping container.
- Compare the contents of the shipping container with the list found above. Report any shortages or damage to your JET distributor.
- 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.





Contents of Shipping Container



Hardware

Assembly

Base and Column Assembly

Referring to Figure 1:

- 1. Place the base (A) on a level floor.
- 2. Place the *column* assembly (B) on the base (A) and align the holes in the column support with the holes in the base.
- 3. Using a 17mm wrench, secure the *column* (B) with four M10 x 40 *hex cap screws* (C) to the base.

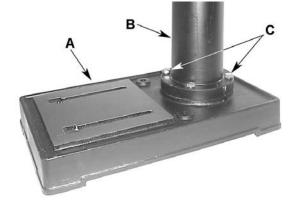


Figure 1

Table and Rack

Referring to Figure 2:

When shipped, the *rack ring* (E) and *rack* (F) are bundled together with the *column* (D) in plastic wrap.

- 1. Remove the wrap and take the rack ring (E) and rack (F) off the column (D). Note which end of the rack is up. It must be reinstalled later with the same side up.
- 2. Place the *rack* (F) inside the table *bracket* (G) such that the teeth of the *rack* (F) mesh with the pinion gear on the end of the table crank handle *shaft* (H).
- 3. Slide the *table and bracket assembly* (B, G) together with the *rack* (F) onto the *column* (D) as shown.
- 4. Slide the *rack ring* (E) onto the *column* (D), placing it so it rests against the *rack* (F) as shown and tighten the *setscrew* (C) with a 3mm hex wrench.

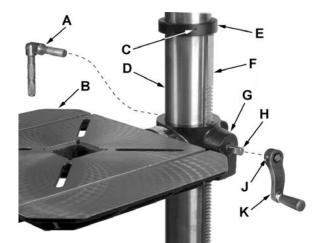


Figure 2

Table Crank and Column Lock Handles

Referring to Figure 2:

- 1. Loosen the *setscrew* (J) on the table *crank* handle (K).
- 2. Slide the *handle* (K) onto the table bracket *shaft* (H).
- 3. Turn the *handle* (K) until the *setscrew* (J) is on the flat section of the *shaft* (H) and tighten the *setscrew* (J) with a 3mm hex wrench to secure the handle.
- 4. Thread the column lock handle (A) into the back side of the table bracket (G) opposite the crank handle (G).

Mounting the Head

1. With the aid of a second person, carefully lift the *head* onto the *column top* (Figure 3).

The head assembly is heavy! To avoid injury and/or damage to equipment, lift the head onto the column only with additional assistance!

- Rotate head assembly until sides of the belt cover (E) are parallel with the sides of the base (A, Fig. 1).
- 3. Tighten two *set screws* (A, Fig. 3) with a 5mm wrench until they are snug.



Referring to Figure 3:

For right-handed operation, install three *downfeed handles* (B) into the *downfeed hub* (C) as shown.

For left-handed operation, install the downfeed handles into the hub on the left side of the head.



1. Lower the table out of the way of the *spindle* assembly (D, Fig. 3).

Referring to Figure 4:

2. Thoroughly clean spindle (A), arbor (C), and chuck (D).

Important: These three pieces must be free of any rust protection, or lubricant. If they are not clean, the arbor and chuck will fail to seat in the spindle.

- 3. Place arbor (C) into the chuck (D).
- 4. Twist the chuck to completely retract the chuck jaws if they are exposed.
- 5. Place arbor and chuck assembly into the *spindle* (A).
- 6. Turn the arbor and chuck assembly until the *tang* (B) on the *arbor* (C) engages the slot at the end of the spindle.
- 7. Use a rubber mallet, or a steel hammer against a block of wood, to sharply tap the bottom of the chuck two or three times to seat the chuck/arbor assembly. (Note: Do **not** use a steel hammer directly against the chuck.)

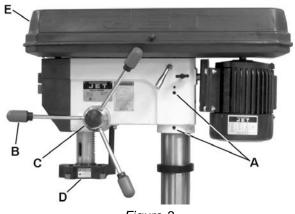


Figure 3

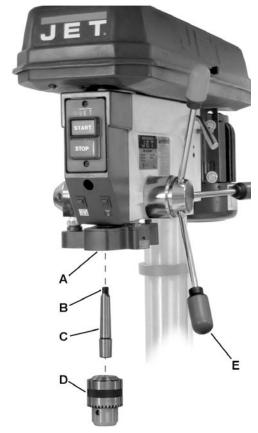


Figure 4

Electrical

Grounding Instructions

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.

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 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.

115 Volt Operation Only

Referring to Figure 5:

As received from the factory, your drill press is ready to run at 115-volt operation. This drill press, when wired for 115 volt, is intended for use on a circuit that has an outlet and a plug that looks like the one illustrated in (A). A temporary

adapter, which looks like the adapter shown in (B), may be used to connect this plug to a two-pole receptacle 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.

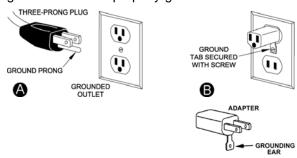


Figure 5

Extension Cords

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 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.

Cord Length	AWG
0 - 25ft	16
5 – 50ft	14

Important: Make certain the receptacle in question is properly grounded. If you are not sure, have a registered electrician check the receptacle.

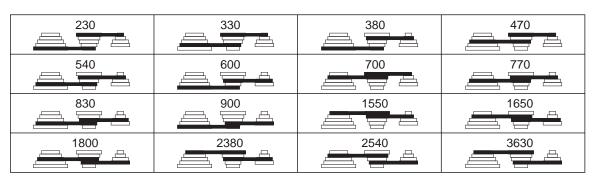


Figure 6 - Drill Speed Chart: Spindle Speeds in RPM

Adjustments

Removing the Chuck and Arbor

Referring to Figure 7:

- 1. Unplug machine from the power source.
- Raise the table until it is about seven inches below the chuck.
- Place a piece of scrap wood on the table, and lower quill (E) using the downfeed handle (A, C).
- 4. Still maintaining the lowered quill position, rotate spindle to align the key hole in the spindle with the key hole in the *quill* (E).
- 5. Insert the *drift key* (D) into the aligned slots and tap lightly. The chuck and arbor assembly should fall from the spindle.

ACAUTION Prepare to catch the chuck and arbor as it drops. Striking the floor could damage tool.



Referring to Figure 8:

To drill multiple holes at the same preset depth, use the depth stop as follows:

- 1. Use a pencil to mark the depth the bit will drill into the *workpiece* (A).
- 2. With the drill bit in the chuck, lower down feed handle to advance bit to your mark.
- 3. With your other hand, advance the *lock nut* (C₁) on the depth stop rod until they are snug to the *seat* (B). Tighten C₂ against C₁.
- 4. The drill bit will now advance to this point.
- 5. To release, advance the nuts counterclockwise to the top of the depth stop.

Changing Spindle Speeds

A spindle speed and belt arrangement chart (Figure 6) is found on the inside of the belt cover. Refer to this chart whenever changing speeds.

To change spindle speeds (refer to Figure 7):

- 1. Unplug the machine from the power source.
- 2. Loosen two *bar knobs* (G), one found on each side of the head assembly.
- 3. Rotate the *tension adjuster* (F) to bring the motor base as close to the head as possible.

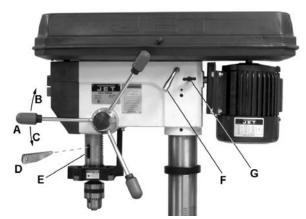


Figure 7

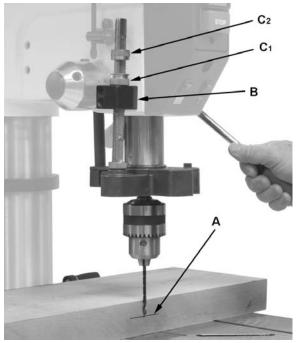
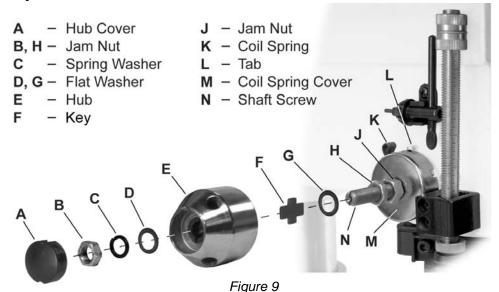


Figure 8

- 4. Change the belts location according the speed chart and the speed you desire.
- Rotate the tension adjuster (F) to tension the belts.
- Tighten two bar knobs (G). Belts are properly tensioned when moderate pressure with finger and thumb midway between the two pulleys causes approximately ½" deflection. Tighten two bar knobs (G).

Return Spring Adjustment



The return spring is located behind the left downfeed handle hub. It is adjusted at the factory and should not need further adjustment.

If adjustment is deemed necessary:

1. Unplug the machine from the power source.

Referring to Figure 9:

- 2. Remove *Items* A–G in that order. A 19mm wrench is required to loosen the *hex nut* (B).
- Loosen the two jam nuts (H, J). Do not remove.
- Pull out slightly the coil spring cover (M)
 while firmly holding it. DO NOT allow the coil
 spring cover to turn freely in your hand, or
 the spring will unwind.

- Rotate the coil spring cover (M) until the notch on the cover engages with the tab (L) on the head casting. Turn the cover clockwise to decrease tension and counterclockwise to increase tension.
- 6. Replace flat washer (G) and key (F).
- 7. Tighten hex nut (J) firmly by hand against the cover (M), then secure by tightening the jam nut (H) against the hex nut (J).
- 8. Reinstall the *hub* (E), *flat washer* (D) and *spring washer* (C).
- 9. Reinstall and tighten jam nut (B).
- 10. Reinstall the hub cover (A).

Table Tilt Adjustment

Remove the alignment pin first and then loosen the hex cap bolt. Failure to comply may cause the table assembly to separate from the column and fall.

To tilt the table (referring to Figure 10):

- 1. Turn *nut* (C) clockwise to pull out the *alignment pin* (B).
- 2. Loosen *hex cap screw* (A), and tilt the table to the desired angle.
- 3. Tighten the hex cap screw (A).
- 4. Reinsert the alignment pin (B).

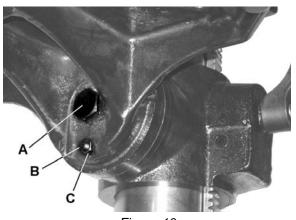


Figure 10

The alignment pin only works at 90° and must be reinserted when the table is returned to 90°.

Laser Adjustment

The Laser Assembly has been installed and preset at the factory. It should, however, be checked and adjustments made, if necessary, before operating the drill press. It should also be rechecked periodically, as constant machine use may cause it to become misaligned. Make verifications and align as follows:

Referring to Figure 11:

- 1. Take a length of *board* (F) and draw a *perpendicular line* (E) on one side using a square.
- Place a small drill bit (C) in the chuck (B), then
 place the board (F) on the table on edge against
 the drill bit (C) with the marked line side facing
 toward the laser to be aligned (A1 in this case).

Important: The table should be in horizontal position and locked.

Connect power to the drill press and turn on the laser using the button at the front of the drill press head.

Two parallel *laser markings* will appear that should look like G and H in Figure 11 – the distance between the lines will vary with board thickness; however, the lines must be parallel to each other *and* the marked line (vertical alignment).

If alignment is necessary:

Vertical Alignment (refer to Figure 11)

- Make slight adjustments to four setscrews (K1-4, Fig. 12) and move the board (F) from side to side as required until the laser light (D) lines up with the board marking (E).
- Tighten all four setscrews so they are snug against the laser housing, but do not over tighten.
 Verify that the laser light is still lined up with board marking.
- 7. Adjust the other laser in the same manner.

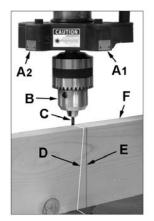
Two resulting parallel *laser markings* should look like G and H in Figure 11 – the distance between the lines can vary but must be parallel to each other *and* the marked line.

Cross Hair Alignment (refer to Figure 13)

- 8. Place board (M) flat on the table. Do not allow the board to move from this position; use clamps if needed. Bring the bit down until it leaves a *slight perforation* in the board (O) then raise it back up.
- 9. Turn on the laser to check if the cross-hairs intersect at the perforation.

If adjustment is required:

10. Choosing first one laser (A1 in this case), loosen two setscrews on the same side (either side) of the *laser housing* equal amounts about 1/4 turn or less.



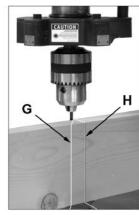


Figure 11



Figure 12

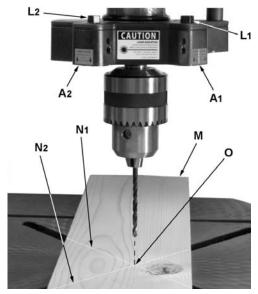


Figure 13

- 11. Adjust (L_1) so the *laser line* (N_1) crosses the perforation (O); then retighten setscrews.
- 12. Adjust the other laser assembly in the same manner until both laser lines form *cross-hairs* (N_1, N_2) exactly over the *perforation* (O) in the board.
- 13. Recheck the *vertical alignment* to insure that the laser lines did not shift during the tightening process.

The laser is now calibrated properly and the location of your holes can be centered at the crosshairs for accurate drilling.

Laser Assembly Removal/Installation

The JDP-17DX drill press can be used as a mortiser when fitted with a mortiser adapter (not included). When used as a mortiser, the laser assembly must be removed as follows:

Referring to Figure 14:

- 1. Unplug machine from the power source.
- 2. Remove the *chuck and arbor* assembly (described on page 7).
- 3. Remove *nuts* (A, C), and *washer* (B) from the *depth set bolt* (H₂).
- With a 5mm hex wrench, loosen the socket head cap screw (J) on the laser housing (H) and lower the assembly.
- 5. Disconnect wiring connectors E₁, E₂.

This completes the removal of the laser assembly.

To re-install the laser assembly:

- 1. Reconnect the wiring. Note that each E1 connector can be connected to any E2 connector (order is not important).
- 2. Install the laser by passing the *sleeve* (H₁) and *depth seat bolt* (H₂) through the head casting opening (F) and *seat* (D) respectively, then seating the *laser housing* (H) onto the *quill* (G).
- 3. Secure assembly by tightening socket head cap screw (J).

This completes the laser assembly installation.

Important: After installation, lasers must be recalibrated as described in the *Laser Adjustment* section (page 13).

Lamp

A light bulb is not included. If desired, insert a standard 60W bulb into the socket accessible from bottom of head.

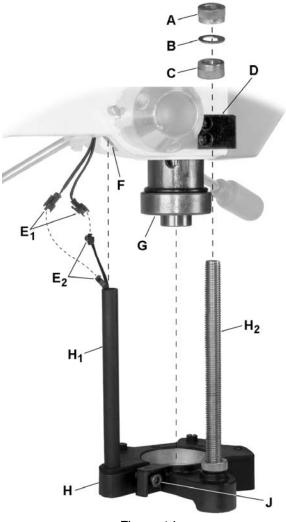


Figure 14

Operating Controls

Refer to Figure 15:

Start Switch (A) - Press to start machine

Stop Switch (B) - Press to stop machine

Light Switch (C) - Turns lamp on and off

Laser Switch (D) - Turns laser on and off

Downfeed Handle (E) - Lower and raise drill

Table Height Adjust Handle (F) – Raises and lowers table; table lock handle (A, Fig. 2) needs to be unlocked.

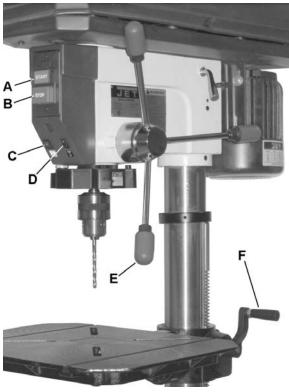


Figure 15

Basic Operation

- ☐ Always use a back-up piece of scrap wood to cover the table. This protects both the table and the drill bit.
- ☐ Place material to be drilled in such a way as to come into contact with the left side of the column. This prevents the material from spinning.

enough to come into contact with the column, use a clamp or drill press vise that is securely fastened to the table!

Failure to comply may cause serious injury!

- □ Feed the bit into the material with only enough force to allow the drill bit to work. Feeding too slowly may cause burning of the workpiece. Feeding too quickly may cause the motor to stop and/or the drill bit to break.
 - Generally speaking, the smaller the drill bit, the greater the RPM required. Wood requires higher speeds than metal. Metal is usually drilled at slower speeds.
- ☐ In dusty environments, frequently blow out any dust that accumulates inside the motor.

Lubrication

Periodically lubricate the gear and the rack, the table elevation mechanism, the splines (grooves) in the spindle, and the teeth of the quill with #2 tube grease.

Troubleshooting

Trouble		Probable Cause		Remedy
	1.	Drill press unplugged from wall or motor.	1.	Check all plug connections.
Drill press will not start.	2. 3.	Fuse blown or circuit breaker tripped. Cord damaged.	2.	Replace fuse or reset circuit breaker.
otarti	4.	Starting capacitor bad.	3.	Replace cord.
	¬.	Ctarting capacitor bad.	4.	Replace starting capacitor.
Drill press does not	1.	Extension cord too light or too long.	1.	Replace with adequate size and length cord.
come up to speed.	2.	Low current.	2.	Contact a qualified electrician.
Drill Press vibrates	1.	Stand on uneven surface.	1.	Adjust stand so that it rests evenly on the floor.
excessively.	2.	Bad belt(s).	2.	Replace belts.
	1.	Incorrect belt tension.	1.	Adjust belt tension. See Chang-ing Spindle Speeds on page 12.
Noisy Operation.	2.	Dry spindle.	2.	Lubricate spindle. See <i>Lubrication</i> on page 15.
	3.	Loose spindle pulley.	3.	Check tightness of retaining nut on pulley and tighten if necessary.
	4.	Loose motor pulley.	4.	Tighten set screws in pulleys.
	1.	Incorrect Speed.	1.	Change to appropriate speed – see speed and pulley chart on page 13.
Workpiece Burns.	2.	Chips not clearing from hole or bit.	2.	Retract drill bit frequently to remove chips.
	3.	Dull drill bit.	3.	Resharpen, or replace drill bit.
	4.	Feeding too slowly.	4.	Increase feed rate.
	1.	Bit sharpened incorrectly.	1.	Resharpen bit correctly.
Drill bit wanders.	2.	Bent drill bit.	2.	Replace drill bit.
	3.	Bit or chuck not installed properly.	3.	Reinstall the chuck, or bit properly.
Wood splinters on the underside.	1.	No backing board used.	1.	Place a scrap board underneath the workpiece to prevent splintering.
	1.	Workpiece pinching the bit.	1.	Support or clamp workpiece.
Drill bit binds in	2.	Excessive feed rate.	2.	Decrease feed rate.
workpiece.	3.	Chuck jaws not tight.	3.	Tighten chuck jaws.
	4.	Improper belt tension.	4.	Increase belt tension (page 12).
	1.	Bent drill bit.	1.	Replace drill bit.
Excessive drill bit run	2.	Worn spindle bearings.	2.	Replace spindle bearings.
out, or wobble.	3.	Bit, or chuck not properly installed.	3.	Reinstall the bit, or chuck properly.
Quill returns too slow, or too fast.	1.	Spring has improper tension.	1.	Adjust "Return Spring Tension," page 14.
Chuck, or arbor do not stay in place.	1.	Dirt, grease, etc on arbor, chuck, or spindle.	1.	Clean all mating surfaces thoroughly with a cleaner degreaser.

Parts

Ordering Replacement Parts

To order parts or reach our service department, call 1-800-274-6848 Monday through Friday (see our website for business hours, www.waltermeier.com). Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

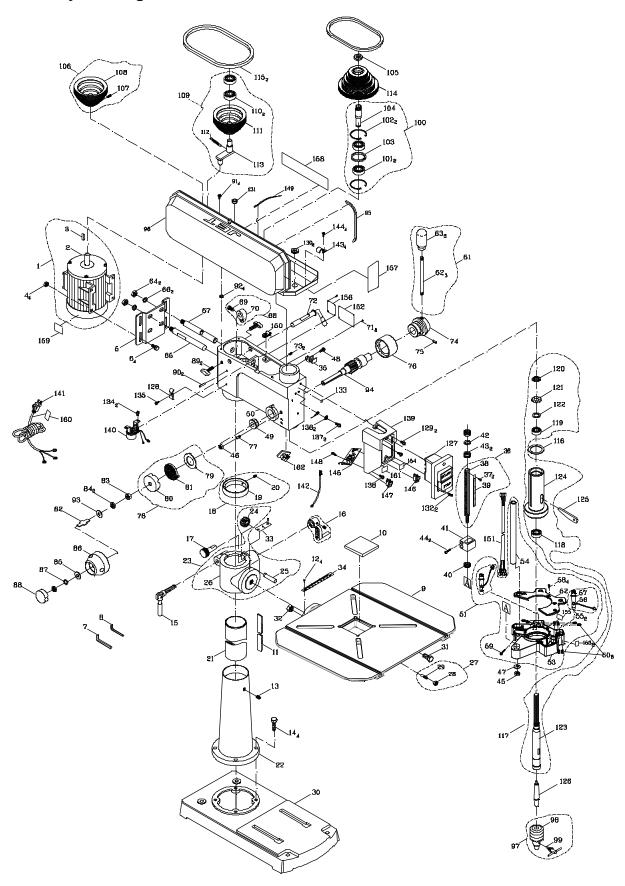
Index No	Part No	Description	Size	Qty
		Motor Assembly		
		Motor		
		Motor Fan (not shown)		
	. 89075161	Motor Fan Cover (not shown)		1
		Capacitor (not shown)		
	. 299155BA04	Centrifugal Switch (not shown)		1
		Parallel Key		
		Hex Nut		
		Motor Base		
		Hex Washer Head Cap Screw		
		Hex Wrench		
8	. TS-152704	Hex Wrench	3mm	1
		Table and Bracket Assembly (includes # 9,12,		
9	. JDP17DX-009	Table (must order JDP17DX-TBA)		1
10	. JDP17DX-010	Insert		1
11	. 10602205	Rack		1
		Drive Screw		
13	. TS-1525021	Set Screw	M10x12	1
14	. TS-1491061	Hex Cap Screw	M10x40	4
15	. 10601901	Column Lock Handle		1
16	. 10601009A1	Crank Handle Assembly		1
17	. 10600902	Worm		1
18	. JDP17DX-018	Rack Ring Assembly		1
		Rack Ring		
20	. TS-1523021	Set Screw	M6x8	1
21	. 12909001	Column		1
	. 12909001A1	Column and Holder Assembly		1
		Column Holder		
		Table Bracket Assembly (includes #24-26)		
		Gear		
25	. 10600802	Gear Shaft		1
		Table Bracket		
27	. JDP17DX-027	Location Pin Assembly (includes # 28,29)		1
28	. TS-0561011	Hex Nut	1/4-20	1
29	. 10901402	Location Pin		1
30	. 10600111	Base		1
31	. TS-0071011	Hex Cap Screw	5/8-11x1-1/2	1
32	. JDP17DX-032	Nut	5/8-11UNC T=15 .	1
33	. JDP17DX-033	Centering Scale		1
34	. JDP17DX-034	Tilting Scale		1
35		Chuck Key Holder		
	. JDP17DX-036			
37	. 2658MZDU36			
38	. JDP17DX-038			
39	. 10904616	Scale		1
40	. 10661801	Circular Nut		1

Index No	Part No	Description	Size	Qty
41	. 10661102	.Seat		1
		Washer		
43	. 13005701	Nut		2
		Socket Head Cap Screw		
		Hex Nut		
		Hex Nut		
		Lock Washer		
		Pan Head Machine Screw		
		Seat		
		.Head		
		Laser Assembly (includes # 52-60 and 155)		
		Upper Cover Plate		
		Laser Housing		
		Sleeve		
		Laser Sleeve Assembly		
		Laser		
		Laser Sleeve		
		Pan Head Machine Screw		
		Socket Head Cap Screw		
		Socket Set Screw		
		Handle Assembly (Set of 3) (includes # 62,63)		
		Handle Bar		
		Handle Grip		
		Hex Nut		
		Motor Bar		
		Lock Washer		
		Motor Bar		
		Motor Bar Shifter Assembly (includes # 69,70)		
69	TS-1490021	Hex Cap Screw	M8x16	1
		Motor Bar Shifter		
		.Drive Screw		
		Handle Shifter		
		Socket Set Screw		
		Hub		
		Spring Pin		
		Scale Ring		
		Quill Set Screw		
		Spring Cap Assembly (includes # 79-81)		
		Spring Retainer		
		Spring Cap		
		Coil Spring		
		Key		
		Hex Nut		
84	. TS-0571052	Hex Jam Nut	1/2-20UNF	2
85	. TS-0680061	Flat Washer	1/2	1
86	. JDP17DX-086	Hub		1
87	. TS-0720111	Lock Washer	1/2	1
		Cover		
		Bar Bolt		
		Spring Pin		
91	. TS-1534052	Pan Head Machine Screw	M6x16	4
		Flat Washer		
		Flat Washer		
94	. JDP17DX-094	Feed Shaft		1
	. JDP17DX-FHA	Feed Hub Assembly (includes # 74,75, and 94)		1

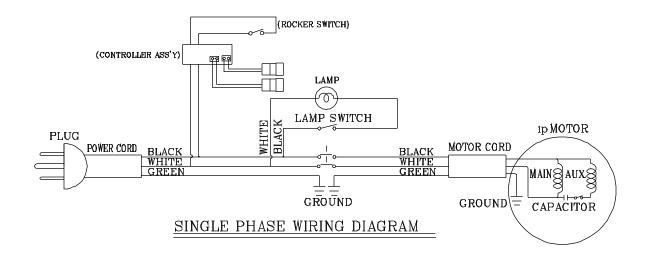
Index No	Part No	Description	Size	Qty
95	. JDP17DX-095	Rubber Seal		1
96	. JDP17DX-096	Pulley Cover Assembly		1
97	. JDP17DX-097	Chuck & Key		1
98	. 561708	Drill Chuck	5/8"	1
99	. CK-16	.Drill Chuck Key	5/8"	1
100	. JDP17DX-100	Driving Sleeve Assembly (includes # 101-104).		1
		Ball Bearing		
		Retaining Ring		
		Collar		
		Driving Sleeve		
		Pulley Set Nut		
		Motor Pulley Assembly		
		.Socket Set Screw		
		Motor Pulley		
		Center Pulley Assembly (includes # 110-113)		
		.Ball Bearing		
		.Center Pulley		
		Extension Spring		
		Center Pulley Shaft		
		Spindle Pulley		
		.V-Ribbed Belt		
		.Rubber Washer		
		.Spindle Assembly (includes # 118-124)		
		Ball Bearing		
		Ball Bearing		
		Spindle Nut		
		Lock Nut		
		.Washer		
		Spindle		
		.Quill		
		.Drift Key		
		.Drilling Arbor		
		.Push Button Switch		
		.Cord Clamp		
		Pan Head Machine Screw		
-		Strain Relief		
		Strain Relief		
		.Tapping Screw		
		Grounding Label		
134	TS-1534052	Pan Head Machine Screw	M6v16	2
		.Pan Head Machine Screw		
		External Tooth Lock Washer		
		.Pan Head Machine Screw		
		Pan Head Machine Screw		
		Switch Box		
		Lamp Socket Assembly		
		.Power Cable		
		Lead Wire Assembly		
		Cord Clamp		
		Pan Head Machine Screw		
		Controller Assembly		
		•		
		.Lamp Rocker Switch		
140	. JUP 17 UA-140	.Tapping Screw	VI 3X I U	1

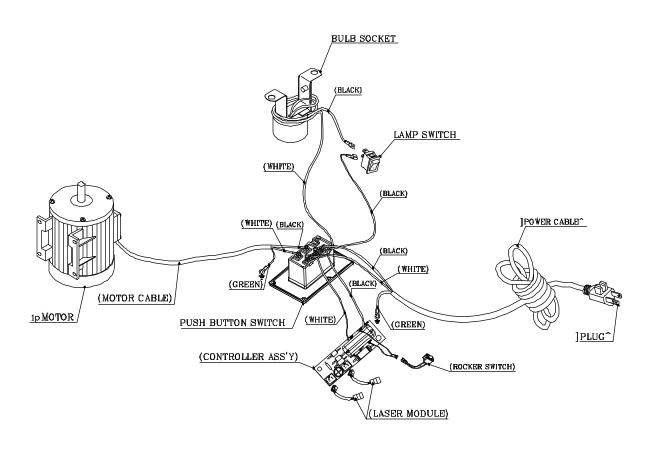
Index No	Part No	Description	Size	Qty
149	JDP17DX-149	Locking Cable Tie		1
150	JDP17DX-150	Cable Clamp		
151	JDP17DX-151	Lead Wire Assembly		1
152	JDP17DX-152	ID Label		1
153	JDP17DX-153	Laser Direction/Exposure Label		2
154	JDP17DX-154	Light Label		
155	JDP17DX-155	Laser Caution/Warning Label		
		Warning Label		
157	. 11316904	JET Label		
158	JDP17DX-158	Speed Label		
159	JDP17DX-159	Motor Label		
160	JDP17DX-160	Wiring Label		
		Laser Label		
		Cord Clamp		
	.IDP17DX-163	•		1

Assembly Drawing



Wiring Diagram





Notes



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