

Operating Instructions and Parts Manual 20" Variable Speed Drill Press

Models: JDP-20VS-1, JDP-20VS-3, JDP-20VST



JDP-20VST

JDP-20VS

JET

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1.0 IMPORTANT SAFETY INSTRUCTIONS

- Misuse of this machine can cause serious injury.
- For safety, machine must be set up, used and serviced properly.
- Read, understand and follow instructions in the Operating Instructions and Parts Manual which was shipped with your machine.

When setting up machine:

- Always avoid using machine in damp or poorly lighted work areas.
- Always be sure the machine support is securely anchored to the floor or the work bench.

When using machine:

- Always wear safety glasses with side shields (See ANSI Z87.1)
- Never wear loose clothing or jewelry.
- Never overreach—you may slip and fall.

1.1 Machinery general safety warnings

- Always wear protective eye wear when operating machinery. Eye wear shall be impact resistant, protective safety glasses with side shields which comply with ANSI Z87.1 specifications. Use of eye wear which does not comply with ANSI Z87.1 specifications could result in severe injury from breakage of eye protection.
- Wear proper apparel. No loose clothing or jewelry which can get caught in moving parts. Rubber soled footwear is recommended for best footing.
- 3. Do not overreach. Failure to maintain proper working position can cause you to fall into the machine or cause your clothing to get caught, pulling you into the machine.
- 4. Keep guards in place and in proper working order. Do not operate the machine with guards removed.
- 5. Avoid dangerous working environments. Do not use stationary machine tools in wet or damp locations. Keep work areas clean and well lit.
- 6. Avoid accidental starts by being sure the start switch is "OFF" before plugging in the machine.
- 7. Never leave the machine running while unattended. Machine shall be shut off whenever it is not in operation.

When servicing machine:

- Always disconnect the machine from its electrical supply while servicing.
- Always follow instructions in Operating Instructions and Parts Manual when changing accessory tools or parts.
- Never modify the machine without consulting JET.

You—the stationary power tool user—hold the key to safety.

Read and follow these simple rules for best results and full benefits from your machine. Used properly, JET machinery is among the best in design and safety. However, any machine used improperly can be rendered inefficient and unsafe. It is absolutely mandatory that those who use our products be properly trained in how to use them correctly. They should read and understand the Operating Instructions and Parts Manual as well as all labels affixed to the machine. Failure to follow all of these warnings can cause serious injuries.

- 8. Disconnect electrical power before servicing. Whenever changing accessories or general maintenance is done on the machine, electrical power to the machine must be disconnected before work is done.
- 9. Maintain all machine tools with care. Follow all maintenance instructions for lubricating and the changing of accessories. No attempt shall be made to modify or have makeshift repairs done to the machine. This not only voids the warranty but also renders the machine unsafe.
- 10. Machinery must be anchored to the floor.
- 11. Secure work. Use clamps or a vise to hold work, when practical. It is safer than using your hands and it frees both hands to operate the machine.
- 12. Never brush away chips while the machine is in operation.
- 13. Keep work area clean. Cluttered areas invite accidents.
- 14. Remove adjusting keys and wrenches before turning machine on.
- 15. Use the right tool. Don't force a tool or attachment to do a job for which it was not designed.
- 16. Use only recommended accessories and follow manufacturer's instructions pertaining to them.

- 17. Keep hands in sight and clear of all moving parts and cutting surfaces.
- 18. All visitors should be kept at a safe distance from the work area. Make workshop completely safe by using padlocks, master switches, or by removing starter keys.
- 19. Know the tool you are using its application, limitations, and potential hazards.
- 20. The installer shall follow local regulations and National Electrical Code, ANSI/NFPA 70 installation requirements.
- 21. Clamp workpiece or brace against column to prevent rotation.
- 22. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
- 23. NEVER STAND ON TOOL Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
- 24. CHECK DAMAGED PARTS. Before further use of the too., 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.
- 25. Grounding instruction: This tool should be connected to a grounded metal permanent

wiring system; or to a system having an equipment-grounding conductor.

MARNING: 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.

MARNING: 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 wellventilated 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:

CAUTION 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 or even fatal injury.

1.2 General electrical cautions

This drill press should be grounded in accordance with the National Electrical Code and local codes and ordinances. This work should be done by a qualified electrician. The saw must be grounded to protect the user from electrical shock.

Wire sizes

Caution: For circuits which are far away from the electrical service box, the wire size must be increased in order to deliver ample voltage to the motor. To minimize power losses and to prevent motor overheating and burnout, the use of wire sizes for branch circuits or electrical extension cords according to Table 2 (sect. 6.4) is recommended.

1.3 Safety instructions for drill presses

- 1. All work shall be secured using either clamps or a vise to the drill press table. It is unsafe to use vour hands to hold any workpiece being drilled.
- 2. Drill press head and table shall be securely locked to the column before operating the drill press. This must always be checked prior to starting the machine.
- 3. Always use the correct tooling. Tooling shall always be maintained and properly sharpened. All tooling must be run at the proper speeds and feeds as they apply to the job. Use only recommended accessories and follow those manufacturer's instructions pertaining to them. Tooling shall not be forced in to any work piece but fed according to the proper specifications. Failure to follow these instructions will not only ruin the tooling as well as the machine, but can cause serious injury.
- 4. Never brush away any chips while the machine is in operation. All clean up should be done when the machine is stopped.
- 5. Keep hands in sight. Do not put hands or fingers around, on, or below any rotating cutting tools.

Leather safety gloves should be used when handling any sharp objects or cutting tools. See A, Figure 1-1.

- 6. Always wear protective eye wear when operating, servicing or adjusting machinery. Eyewear shall be impact resistant, protective safety glasses with side shields complying with ANSI Z87.1 specifications. Use of eye wear which does not comply with ANSI Z87.1 specifications could result in severe injury from breakage of eye protection. B, Figure 1-1.
- 7. When drilling in material which causes dust, a dust mask shall be worn. See C, Figure 1-1.
- 8. Avoid contact with coolant, especially guarding the eyes.
- 9. Non-slip footwear and safety shoes are recommended. See D, Figure 1-1.
- 10. Wear ear protectors (plugs or muffs) during extended periods of operation. See E, Figure 1-1.



Figure 1-1

SAVE THESE INSTRUCTIONS

2.0 About this manual

This manual is provided by JET, covering the safe operation and maintenance procedures for a JET Model JDP-20VS series Drill Press. 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.

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

Register your product using the mail-in card provided, or register online: http://www.jettools.com/us/en/serviceand-support/warranty/registration/

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4.0 Specifications for JDP-20VS series Drill Press

Model number	JDP-20VS-1	JDP-20VS-3	JDP-20VST
Stock number	354230	354231	354240
Motor and Electricals			
Motor type		TEFC induction	
Horsepower		2 HP (1.5kW)	
Phase	1	3	3
Voltage	115/230 V	230/460 V	230 V only
	(prewired 115V)	(prewired 230V)	
Cycle		60 Hz	1
Listed FLA (full load amps)	25/13	7/3.5	7/6.6
Motor speed		0 RPM	1720/850 RPM
Power cable	SJT 12AWG, 6 ft.		SJT 14AWG, 6 ft.
Main Power plug		Not provided	
Work light		6W, 12V DC, input 110	
Work light power cable	SVT 18AWG, 6	ft. with 110V plug	SVT 18AWG (to box)
Power transfer		Belts	
Gear ratio		nter pulley) 27T / 62T ((spindle)
Recommended overcurrent protection ¹	30A (115V) 15A (230V)	15A	15A
Capacities			
Drills to center of circle		20 in. (508 mm)	
Drilling capacity, cast iron		1-1/4 in. (31.8 mm)
Drilling capacity, mild steel	1 in. (2	25.4 mm)	1-3/8 in. (35 mm)
Tapping capacity, cast iron		n/a	3/4 in. (19 mm)
Tapping capacity, mild steel	n/a		5/8 in. (15.9 mm)
Spindle to table distance, maximum	30-1/4 in. (768.4 mm)		
Spindle to base distance	43-1/2 in. (1105 mm)		
Spindle to column distance		10-7/16 in. (265 mn	n)
Coolant capacity (optional)		2 gal. (7.6 L)	
Spindle	-		
Spindle taper		MT-3	
Number of spindle speeds		Variable	1
Spindle speed range	300 – 2	,000 RPM	150 – 2,000 RPM
Spindle travel		6 in. (152.4 mm)	
Rotation		Fwd/rev	
Table and Column			
Table size LxW		x 18-3/4 in. (559 x 476	1
Table working surface	18-1	/8 x 14-3/4 in. (460.4 x	375 mm)
Table effective travel (w/o rack adjustment)		15 in. (381 mm)	
Table max. travel (with rack adjustment)		20 in. (508 mm)	
Number of T-slots		3	
T-slot size	5/8 in. (16 mm)		
T-slot centers	3-3/4 in. (95 mm)		
Table weight capacity	154 lbs. (70 kg)		
Column diameter	4-1/2 in. (114.3 mm)		
Base			
Base size	2	27 x 19 in. (686 x 482.6	,
Base working surface	15 x 12 in.(380 x 304mm)		
Number of T-slots		2	
T-slot size		5/8 in. (16 mm)	

	JDP-20VS-1	JDP-20VS-3	JDP-20VST	
Main materials				
Head		cast iron		
Table and Base		cast iron		
Spindle and Quill		steel/cast iron		
Column		steel		
Dimensions				
Assembled machine dimensions LxWxH	38.18 x 27.	16 x 79.52 in. (970 x 6	90 x 2020 mm)	
Shipping dimensions LxWxH	37 x 25	37 x 25.5 x 75 in. (940 x 648 x1905 mm)		
Weights				
Net weight		685 lbs. (311 kg)		
Shipping weight		780 lbs. (354 kg)		

Table 1

¹ Subject to local and 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 intended to allow the user to make a better estimation of the hazards and risks involved only.

L = length, W = width, H = height

n/a = *not applicable*

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.

4.1 Mounting hole centers (all models)



Figure 4-1: machine base mounting

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

5.0 Set-Up and Assembly

Inspect contents of crate for shipping damage. Report any damage immediately to your distributor and shipping agent. Do not discard any shipping material until drill press is assembled and running properly.

Remove any fasteners holding drill press to pallet. Lift drill press with forklift or hoist with straps. (Note: Lifting point is beneath head and next to column.) Make sure coolant hose, handles, etc. are clear of forks or straps when lifting. Lifting equipment must be properly rated for weight of drill press.

Locate the machine on a solid, level floor, preferably concrete. Area should have good overhead lighting and ventilation. (Refer to OSHA regulations for specific information about using drill presses in industrial environments.) The drill press should be level and rest solidly on floor. Place shims below base as needed to achieve level.

Exposed metal surfaces have been given a protective coating. Remove this with a soft cloth and a cleaner-degreaser or kerosene. Do not use gasoline, paint thinner or acetone, as these may damage painted surfaces. Do not use an abrasive pad, as it may scratch polished surfaces.

Coat all machined surfaces with a light coat of oil to inhibit rust.

5.1 Shipping contents

- 1 Drill press
- 1 Crank handle
- 1 Socket wrench
- 1 Drift kev
- 1 Operating and parts manual
- 1 Product registration card

5.2 Securing base

It is strongly recommended that drill press be secured to floor. The drill press base has four mounting slots; see Figure 4-1. When securing base to floor, apply even torque to the fasteners to prevent distortion of base.

5.3 Raising head

The drill press head is lowered on the column for crating and transportation. Before operating drill press, head must be raised to operational level, as follows.

1. Cut a 2x4 approximately 16-inches in length.

- 2. Loosen head locking nut (A, Figure 5-1) by turning counterclockwise with provided socket wrench.
- 3. Grasp head and turn it slightly from side to side to loosen the rust prevention solution on column.
- 4. Loosen table lock by placing handle on crankshaft (see A, Figure 8-1) and rotating handle counterclockwise.
- 5. Raise table by placing handle on crankshaft (B or C, Figure 8-1) and rotating clockwise. Place 2x4 vertically between table and head, as close to column as possible. CAUTION: Do not place 2x4 under lock collar (B, Figure 5-1).
- 6. Continue raising head and 2x4 until head bore and column are flush. Use a ladder to observe column through top of pulley cover.

Do not raise head any farther or it may fall from column. Failure to comply may result in serious injury.

- Securely tighten head locking nut (A, Figure 5-7. 1). This will secure head until lock collar can be positioned. The 2x4 can now be safely removed.
- Loosen two set screws on lock collar (B), and 8. slide lock collar until it is flush with head. Securely tighten both set screws.

Never loosen head locking nut (A) without supporting the head.



Figure 5-1

6.0 Electrical Connections

AWARNING Electrical connections must be made by a qualified electrician in compliance with all relevant codes. This machine must be properly grounded to help prevent electrical shock and possible fatal injury.

The JDP-20VS-1 is pre-wired for single-phase, 115volt. The machine can also be run on 230V power. See sect. 6.3.

The JDP-20VS-3 is pre-wired for 3-phase, 230-volt. The machine can also be run on 460V power. See sect. 6.3.

The JDP-20VST is prewired for 3-phase, 230-volt only.

The drill press is not provided with an electrical plug; you may either attach a proper UL/CSA-listed plug, or "hardwire" the machine directly to a service panel.

6.1 GROUNDING INSTRUCTIONS

This tool must be grounded. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor. If an electrical plug is to be used, the plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded.

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.

Repair or replace damaged or worn cord immediately.

If hardwired:

Permanently connected tools: This tool should be connected to a grounded metal permanent wiring system; or to a system having an equipmentgrounding conductor. Make sure a disconnect is available for the operator. During hard-wiring of the machine, make sure the fuses have been removed or the breakers have been tripped in the circuit to which the drill press will be connected. ALWAYS FOLLOW PROPER LOCK-OUT/TAG-OUT PRO-CEDURES.

6.2 Electrical cabinet access (JDP-20VST only)

To open electrical cabinet, press latch button and rotate latch to the left. A set of keys is provided for locking the cabinet door.

6.3 Voltage conversion (JDP-20VS-1/3 only)

- Reconnect leads in motor junction box, 1. according to diagram inside junction box cover. Diagrams are also found at back of this manual. (If discrepancies should occur, diagrams on machine take precedence.)
- Remove pulley cover and reconnect wire on 2. LED display accordingly (see Figure 6-3).
- 3. If using a plug, connect a proper UL-listed plug for the incoming voltage.



Figure 6-3: LED display connection

Make sure incoming current matches power requirements of the drill. When machine is connected properly, spindle turns clockwise in a conventional drilling rotation. If spindle does not turn clockwise on the 3-phase drill press when switch is set to forward rotation, disconnect machine from power supply and reverse any two of the three power leads (not the green ground wire).

Note: The work light has a dedicated power cable and continues to operate on 110V.

6.4 Extension cords

The use of extension cords is discouraged; try to position equipment within reach of the power source. If an extension cord becomes necessary, be sure it is 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 recommended 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.

Amper Rating		Volts	Tota	l length	n of cord	in feet
More	Not	120	25	50	100	150
Than	More	240	50	100	200	300
Indii	Than				AWG	
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recomm	nended

Table 2: extension cord recommendations

7.0 Operating controls

7.1 JDP-20VS-1/3 controls

Refer to Figure 7-1.

LED Display (A): Shows spindle RPM selected by speed control handwheel.

On/Fwd/Rev switch (B): Turns on spindle and selects rotation direction.

Speed control handwheel (C): Turn counterclockwise to increase spindle speed.

ACAUTION Move handwheel only while spindle is rotating. Failure to comply may cause damage to speed mechanism.

Downfeed handle (D): Raises and lowers quill.

Depth stop (E): Can be set for depths up to 6-inches.

Adjustment knob (E1): Sets depth stop position.

Lock knob (E2): Locks setting of depth stop.

Work light (F): Has separate on/off switch atop shade; flexible positioning.



Figure 7-1: JDP-20VS-1/3 controls

7.2 JDP-20VST controls

Refer to Figure 7-2.

LED Display (A): Shows spindle RPM selected by speed control handwheel.

Speed control handwheel (C): Turn counterclockwise to increase spindle speed.

ACAUTION Move handwheel only while spindle is rotating. Failure to comply may cause damage to speed mechanism.

Downfeed handle (D): Raises and lowers quill.

Depth stop (E): Can be set for depths up to 6-inches. Activates limit switches in tapping mode.

Adjustment knob (E1): Sets depth stop position.

Lock knob (E2): Locks setting of depth stop.

Work light (F): Has separate on/off switch atop shade; flexible positioning.

Speed range switch (G): Two ranges. Middle position is neutral – spindle off. Must be set to high or low before front panel controls will function.

Drill mode switch (H): Selects drill or tap mode. Middle position is neutral – spindle will not move.

Spindle on button (I): Starts spindle rotation.

Spindle off button (J): Stops spindle rotation. (Other functions such as coolant pump will continue to operate.)

E-Stop (K): Emergency stop button shuts down all drill press functions. To restart drill press, turn E-stop button clockwise until it disengages.

Coolant pump switch (L): (Optional accessory); starts and stops coolant pump circulation.

Reverse spindle (M): If tapping is interrupted, press and hold this button to reverse tap from workpiece. When button is released, spindle will resume forward rotation.

Power on light (N): Indicates electrical current is flowing to machine.



Figure 7-2: JDP-20VST controls

8.0 Adjustments

8.1 Depth stop

The drilling depth indicator (E, Figures 7-1 and 7-2) can be set for depths up to 6 inches (152.4 mm).

8.1.1 For drilling (all models)

- 1. (Set switch to drill mode (H) on JDP-20VST.)
- 2. Before starting motor, use downfeed handle to set end of drill against surface into which hole is to be drilled.

- Set depth block to zero by turning knurled knob (E1). Then adjust block to desired depth of hole, and secure setting with knob (E2).
- 4. Start motor and drill hole until travel is restrained by indicator block.

8.1.2 For tapping (JDP-20VST only)

- 1. Set depth stop in same manner as above.
- 2. Set tapping mode (H).
- When quill is advanced using downfeed handle (D), upper limit switch will be released for tapping. When lower limit switch is triggered, spindle will reverse rotation direction. When spindle is returned to highest position, it will resume forward rotation.

NOTE: When tapping mode is off, limit switches are deactivated and do not affect spindle rotation.

8.2 Table adjustment

The table can be raised or lowered to accommodate workpiece height. Place hand crank on shaft (A, Figure 8-1) and turn counterclockwise to loosen table lock. Then use hand crank on shaft B or C to raise or lower table. Lock table in position using shaft A.

If drill press base is to be used for securing workpiece, loosen table (A) and swing it around column and out of the way. Retighten table.



Figure 8-1: table adjustments

8.3 **Tool installation and removal**

- 1. Disconnect machine from power source.
- 2. Thoroughly clean inside of spindle with a soft dry cloth. Also clean any taper or arbor to be used in the spindle. If these are not kept clean, taper or arbor will not "seat" properly in spindle and may drop out unexpectedly.
- 3. Place protective piece of scrap wood on table.
- 4. Raise table to approximately 8-to-10 inches below spindle.
- 5. Insert MT-4 tool into spindle.
- 6. Lower spindle using downfeed handle, and seat tool against the wood.

7. If installing a drill chuck, retract the jaws then use rubber mallet (or steel face hammer against a block of wood) to sharply tap bottom of chuck two or three times to seat it. NOTE: Never use a steel face hammer directly against the chuck.

To remove a tool:

- 1. Disconnect machine from power source.
- 2. Lower spindle to expose slots in spindle wall.
- Insert drift key into spindle slots and tap gently until drill bit or chuck arbor loosens. Hold tool with one hand (use glove or rag if needed) while tapping to prevent tool from falling and being damaged.

8.4 Speed pickup adjustment

Speed pickup has been set correctly by the manufacturer. If the speed readout display should lose accuracy, adjustment can be made as follows. Refer to index numbers on exploded view, *sect. 13.3.1.*

- 1. Loosen screws securing speed pickup (ref. #50) to plate (#51).
- 2. Adjust speed pickup gap to approximately 1/8inch. Retighten screws.
- 3. Operate drill press to verify that speed readout is operating correctly.

8.5 **Spindle return spring adjustment**

The spindle return is preset by the manufacturer and should not need adjustment. If future attention is ever required, proceed as follows:

- 1. Do NOT remove spring cap (D, Figure 8-2).
- 2. Loosen knob (E) just enough to rotate spring cap past notch (F).
- 3. Rotate spring cap clockwise to decrease spring tension. Rotate spring cap counter-clockwise to increase spring tension.
- 4. Re-tighten knob (E).



Figure 8-2: return spring adjustment

8.6 Coolant pump (optional)

The coolant system (not provided) should be filled with 2 gallons of a cutting coolant. Fill by pouring coolant into base of machine. Add coolant in the same manner when coolant is low. To drain coolant, remove hex cap screw located on lower backside of base. Follow all coolant manufacturer's instructions for safety, mixing and disposal.

Make sure drain hose has good, tight connection into table and that coolant flows into base.

Make sure hose leaving pump and entering ball valve has good, tight connections.

The flexible nozzle enables user to adjust coolant for each job. One ball valve controls coolant flow to nozzle.

9.0 **Operation**

9.1 **Operating precautions**

The following operating and safety precautions must be observed in order to avoid harm to operator or damage to drill press.

- 1. Head assembly must be locked to column so the thrust produced by drilling will not force the head assembly up the column.
- 2. Work table must be locked to column so it will not be forced down the column.
- 3. Belts should be properly tensioned.
- 4. Do NOT start to drill workpiece until making certain workpiece is held down securely.
- 5. **Make sure drive motor is running BEFORE** turning speed control handwheel in either direction.
- 6. Point of operation protection is required for maximum safety. This remains the responsibility of the user/purchaser since conditions differ between jobs.
- 7. Make sure tool is secured in the spindle or chuck before attempting to use the drill press.
- 8. Make sure spindle taper is clean and free of burrs, scoring, and galling to assure maximum gripping.
- 9. Lock quill in position when using any sideloaded tool.

9.2 **Drilling recommendations**

9.2.1 Drilling speeds

The speed of a drill is usually measured in terms of the rate at which the outer periphery of the tool moves in relation to the work being drilled. The common term for this is Surface Feet per Minute (SFM). The relationship of SFM is expressed in the following formulas: RPM = 3.8 x ______SFM

Drill diameter (in inches)

In general, the higher the speed the shorter the drill life. Operating at the low end of the speed range for a particular material will result in longer life. The most efficient speed for drill operation depends upon many variables:

- 1. Composition and hardness of material.
- 2. Depth of hole.
- 3. Efficiency of cutting fluid.
- 4. Type and condition of drilling machine.
- 5. Desired quality of hole.
- 6. Difficulty of set-up.

9.2.2 Drilling feed

The feed of a drill is governed by size of tool and the material drilled. Because feed rate partially determines rate of production and also is a factor in tool life, it should be chosen carefully for each job. In general, the most effective feeds will be found in the following ranges:

Diameter of Drill (inches)	Feed per Revolution (inches)
Under 1/8	0.001 to 0.002
1/8 to 1/4	0.002 to 0.004
1/4 to 1/2	0.004 to 0.007
1/2 to 5/8	0.007 to 0.015
Ta	hle 3

Table 3

9.2.3 Speeds for high speed steel drills

Material	Speed (SFPM)		
Alloy Steel — 300 to 400 Brinell	20-30		
Stainless Steel	30-40		
Automotive Steel Forgings	40-50		
Tool Steel, 1.2C	50-60		
Steel, .4C to .5C	70-80		
Mild Machinery Steel, .2C to .3C	80-110		
Hard Chilled Cast Iron	30-40		
Medium Hard Cast Iron	70-100		
Soft Cast Iron	100-150		
Malleable Iron	80-90		
High Nickel Steel or Monel	40-50		
High Tensile Bronze	70-150		
Ordinary Brass and Bronze	200-300		
Aluminum and its Alloys	200-300		
Magnesium and its Alloys	250-400		
Slate, Marble, and Stone	15-25		
Plastics and similar materials	100-150		
(Bakelite)			
Wood	300-400		
Titanium Alloys	10-25		
Titanium Alloy Sheet	50–60		
Note: In cases where carbon steel drills are applicable, the drill should be run at speeds of 40 to 50 percent of those			

Note: In cases where carbon steel drills are applicable, the drill should be run at speeds of 40 to 50 percent of those given above.

9.2.4 Excessive speed/feed indicators

A drill that splits up the web is evidence of too much feed or insufficient tip clearance at the center as a result of improper grinding. The rapid wearing away of the extreme outer corners of cutting edges indicates that speed is too high. A drill chipping or breaking out at the cutting edges indicates that either feed is too heavy or drill has been ground with too much tip clearance.

10.0 User-maintenance

10.1 Drive belt replacement

Disconnect electrical power to drill press to avoid possibility of inadvertent operation and exposure to potentially lethal voltage levels.

- 1. Start drill press. Set speed control to highest speed. Stop drill press.
- 2. Disconnect machine from power source.
- 3. Remove pulley cover.
- 4. Remove belt. (With speed control setting at highest speed, belt should be loose enough to remove.)
- 5. Install replacement belt. Install pulley cover.
- 6. Connect drill press to power and run machine to verify correct operation.

10.2 Motor replacement

AWARNING Disconnect electrical power to drill press to avoid possibility of inadvertent operation and exposure to potentially lethal voltage levels.

- 1. Remove drive belt (sect. 10.1).
- Disconnect electrical wiring from motor junction 2. box.
- 3. Remove nuts from mounting studs securing motor to drill head. Remove motor.
- 4. Remove upper and lower pulleys and related components from motor shaft.
- 5. Install upper and lower pulleys and related components on replacement motor shaft.
- 6. Install motor on mounting studs and secure with nuts.
- 7. Connect electrical wiring (refer to wiring diagram for details).
- 8. Install drive belt (sect. 10.1).
- 9. Connect drill press to power and run machine to verify correct operation.

10.3 Lubrication

See Table 4 for lubrication points and recommended frequency. Avoid getting oil or grease on belts.



Figure 10-1

Lubrication points				
Location	Recommended lubricant	Frequency		
Spindle splines (A, Figure 10-1)	#2 lithium based tube grease	Monthly		
Quill and column	Machine tool oil	Daily		
Table raising rack	SAE 20 oil (clean rack with kerosene before oiling)	Weekly		
Push rods (B, Figure 10-1)	#2 lithium based tube grease	Periodically as needed		

Table 4

10.4 Additional servicing

Any additional servicing should be performed by authorized service personnel.

11.0 Coolant system (optional)

Coolant pump system is optional. Contact your JET dealer for more information. See sect. 13.5.2 for stock number to order, depending upon your model of drill press. (Note: The following illustrations may or may not show your particular drill press.)

11.1 Coolant system installation

- 1. Remove large reservoir cover from machine base. Tap 1/4-20 threads in the 4 pilot holes. (Holes may already be threaded in some models.)
- Install large cover plate back onto machine 2. base.
- 3. Insert pump into opening, utilize the screws from the small round cover plate to fasten pump to base.
- 4. Position power switch and valve bracket in convenient position on spindle casting. Mark mounting hole locations and drill holes. (Refer to Figure 11-1)

Note: Mount components near the lower edge of the spindle casting. DO NOT mount components above the line shown in Figure 11-1

Install power switch and valve bracket with the 5. provided fasteners.

Note: On the JDP-20VST, coolant operation can be wired to the switch on the front panel.

- 6. Install the 3/8-inch hose coupling to the coolant pump. If needed, apply light coat of pipe sealant or thread seal tape to threads to prevent leakage.
- 7. Mount flow valve to bracket, connect supply hose to pump and valve, and use hose clamps at the ends.
- 8. Install flexible nozzle to flow valve.
- 9. Install 1/2-inch hose coupler to worktable, and seal threads if needed. Connect return hose.
- 10. Connect power cord to a suitable source and ground (refer to General electrical cautions).
- 11. Fill reservoir with appropriate machining coolant. Capacity = approximately 2 gal.



Figure 11-1

Power switch - mounting plate flush with bottom edge of spindle casting.

12.0 Troubleshooting JDP-20VS series Drill Press

Trouble	Probable Cause	Remedy *
	Overload protector tripped.	Allow machine to cool, then press reset button on overload relay.
Spindle does not turn.	Branch circuit breaker tripped or fuse blown.	Reset branch circuit breaker/replace fuse. Make sure incoming power matches machine specs.
	Open wire in switch circuit.	Repair open circuit.
	Defective switch.	Replace switch.
	Broken drive belt.	Replace drive belt.
	Damaged spindle bearings.	Replace bearings.
Spindle noisy.	Worn spline.	Replace spline.
	Insufficient lubrication.	Maintain proper lubrication.
	Worn drive belt.	Check condition of belt. Replace if glazed or slipping on pulleys.
Drill stalls.	Excessive feed rate for size of drill and material being drilled. No cutting fluid or improper cutting fluid.	Reduce feed pressure or use cutting fluid. Use correct cutting fluid.
	Dull drill.	Sharpen or replace drill.
	Lack of rigidity in hold-down method.	Check that all T-slot hold-downs are tight and that table-lock and drill head bolts are tight.
Poorly drilled holes.	Speed too fast for material and drill size.	Check spindle speed recommendations. Reduce speed if necessary.
	Feed too fast for material and drill size.	Reduce feed rate.
	No or improper cutting fluid or coolant being used.	Use cutting fluid, or change to proper fluid or coolant for material being drilled.
	Improperly ground drill bit.	Check for proper angles and reliefs. Regrind to proper geometry.
	Electrical circuit fault.	Check current draw in circuit. Make sure current draw is the same as rating on motor plate.
Motor overheating.	Oversize drill.	Reduce drill size.
	Excessive feed.	Reduce feed rate.
	No cutting fluid, or wrong fluid.	Use correct cutting fluid for the material and drill.
Table binding, or cannot be raised.	Lack of lubrication.	Clean and lubricate rack, column, shafts, or wherever needed.
No speed readout.	Speed pickup out of adjustment or failed.	Adjust gap between speed pickup and post spindle pulley. If there is no readout on the LED speed indicator after adjusting the gap, replace the speed pickup.

*WARNING: Some corrections may require a qualified electrician.

Table 5

13.0 Replacement Parts

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



13.1.2 Drill Head – Manual Speed Control (JDP-20VS-1/3) – Parts List

Index No.	Part No.	Description	Size	Qty
		Hand Grip		
		Handwheel (includes #1)		
		Bushing		
		Key		
		Worm Shaft		
		Thrust Bearing		
		Bearing Housing		
		Spindle Mid Shaft		
		C-Ring, External (shaft)		
		Key, Double Rd Head		
		Key, Double Rd Head		
12	. JDP20VS-TH12	Shaft		1
		Thrust Bearing		
14	. JDP20VS-TH14	Worm Shaft		1
15	. JDP20VS-TH15	Control Rod		1
		Roll Pin		
		Housing		
		Hex Socket Cap Screw		
		Bracket		
		Control Rod Sleeve		
21	JDP20VS-TH21	Shaft		
		Plate		
		Spring Washer		
		Hex Nut		
		Hex Socket Cap Screw		
		Washer		
		Hex Nut		
		Ball Bearing		
		C-Ring, Internal (Hole)		
30	. JDP20V5-1H30	Speed Change Bracket	••••••	ا۱ ا
		Support Rod		
30-2		C-Ring, External (Shaft)	5-12	Z
31	. JDP20V5-1H31	Speed Change Lever	••••••	ا۱ م
		Bearing Cover		
		Ball Bearing		
		Upper Spindle Pulley		
		Lower Spindle Pulley		
		Belt		
		Ball Bearing		
		Bushing		
39		Bushing		
		Hex Nut		
		Hex Socket Cap Screw		
		Washer		
	. JDP20VS-TH42/1			
		Motor		
42-1	. JDP20VS-TH42-1	Plate		
43	. S0400545			
	. 5510675			
45	. TS-0680031	Washer	5/16"	4
		Hex+C26. Screw		
47	. JDP20VS-TH47	C-Ring (Shaft)	S-45	1
48	. JDP20VS-TH48	Spring Cover		1
		Spring		
		Lower Motor Pulley		
		Belt		
		Pan Head Screw		
		Set Screw		
	. TS-1522021			
		Set Sciew Bushing		
		Hex Socket Cap Screw		
57	TS_1502051	Hav Sackat Can Scrow		

Index No.	Part No.	Description	Size	Qty
59	TS-0680021	. Washer	1/4"	4
		Button Head Socket Screw		
60	JDP20VS-TH60	. Plate Bracket		1
61	TS-0680031	. Washer	5/16"	2
		Hex Socket Cap Screw		
63	F000299	. Phillips Pan Hd Machine Screw	1/4"x1/2"	2
		Washer		
		. Pulley Cover		
		Top Cover		
		Hex Socket Button Screw		
		Hex Socket Cap Screw		
		Washer		
		. Plate Bracket		
		Fwd/Rev Switch Assembly 1PH (includes # 74~78) .		
	JDP20VS-TH69-3	Fwd/Rev Switch Assembly 3PH (includes # 74~78).		1
		. Cap Screw		
		. Face Plate		
		Phillips Pan Hd Machine Screw		
		LED Display for 1ph		
		LED Display for 3ph		
		Switch Plate		
		. Phillips Pan Hd Machine Screw		
		Label Fwd/Rev		
		. Label Cover		
		. Knob		
		. Connection Cord		
		Power Cord12		
		. Power Cable Terminal Box		
	JDP20VS-WL	Work Light (not shown)	input 110V	1
		. ID/Warning Label, JDP-20VS-1 (not shown)		
	LM000266	. ID/Warning Label, JDP-20VS-3 (not shown)		1
	JET-113	. JET Logo (not shown)	113x47mm	1

13.2.1 Drill Head – Two Speed Control (JDP20VST) – Exploded View



13.2.2 Drill Head – Two Speed Control (JDP20VST) – Parts List

Index No.	Part No.	Description	Size	Qty
		Hand Grip		
		Handwheel (includes #1)		
		Bushing		
4	.JDP20VS-TH04	Key	4x4x15	1
5	.JDP20VS-TH05	Worm Shaft		1
<u>6</u>	.BB-51101ZZ	Thrust Bearing	51101zz	1
		Bearing Housing		
		Spindle Mid Shaft		
		C-Ring, External (shaft)		
		Key, Double Rd Head		
		Key, Double Rd Head		
		Shaft		
13	.BB-51101ZZ	Thrust Bearing		1
		Worm Shaft		
		Push Rod		
		Roll Pin		
		Housing		
		Hex Socket Cap Screw		
		Bracket		
		Control Rod Sleeve Shaft		
		Snaπ Plate		
		Spring Washer Hex Nut		
		Hex Socket Cap Screw		
		Washer		
		Hex Nut Ball Bearing		
		C-Ring, Internal (Hole)		
29		C-Ring, Internal (Hole) Speed Change Bracket	R-42	ا۱
30		Speed Change Bracket		ا۱ ۱
		C-Ring, External (Shaft)		
30-2	. 0200470	Speed Change Lever		ے۲
		Bearing Cover		
		Ball Bearing		
		Upper Spindle Pulley		
		Lower Spindle Pulley		
		Belt		
		Ball Bearing		
		Bushing		
39		Bushing		
		Hex Nut		
		Hex Socket Cap Screw		
		Motor		
		Plate		
		Key, Double Rd Head		
		Key, Double Rd Head		
		Hex+C26. Screw		
		C-Ring (Shaft)		
		Spring Cover		
49	.JDP20VS-TH49	Spring		1
		Lower Motor Pulley		
51	. JDP20VS-TH51	Belt		1
		Pan Head Screw		
		Key		
		Set Screw		
	. TS-1524011			
56	. JDP20VS-TH56	Bushing		
57	. TS-1503051	Hex Socket Cap Screw	M6x20	2
	. JDP20VS-TH58	Upper Motor Pulley		1
		Washer		

Index No. Part No.	Description	Size	Qty
59-1 F009885	Button Head Socket Screw	M5x10	4
	Plate Bracket		
	Washer		
	Hex Socket Cap Screw		
	Phillips Pan Hd Machine Screw		
	Washer		
	Pulley Cover		
	Top Cover		
	Hex Socket Button Screw		
	Hex Socket Cap Screw		
	Washer		
	Plate Bracket		
	Cap Screw		
72 TS-1533032	Phillips Pan Hd Machine Screw	M5x10	4
	Control Panel		
	LED Display		
	Reversal Switch		
	Pump Switch		
	Selection Switch D/T		
105JDP20VST-TH105	Emergency Stop Switch		1
	Stop Switch		
	Start Switch		
	Electric Box		
	Switch Plate		
	Fuse Block		
	1Fuse (not shown)		
	2Fuse (not shown)		
	Relay		
	Contactor		
	1Overload Switch		
	Transformer		
	Terminal Plate		
	Power Cable		
	Motor Cable		
	Pump Cable		
	4P/8P Switch		
	Power Indicator Light		
121JDP20VS-WL	Work Light	input 110V	1
	ID/Warning Label, JDP-20VST (not shown)		
JET-92	JET Logo (not shown)		1



13.3.2 Spindle Components (All Models) – Parts List

Index No.	Part No.	Description	Size	Qty
1	.JDP20VS-HD	Head Body for JDP20VS series		1
		Front Cam Lock		
		Hex Nut		
		Hex Head Wrench		
5	.5510286-RHA	Rubber Handle Assembly		3
6	.J-5510285G	Hub		1
7	.JDP20VS-LH07	Feed Shaft Seat		1
8	.JDP20VS-LH08	Feed Shaft		1
		Key		
		Set screw		
		Rubber Washer		
		Quill Band		
		Quill Band (S/n:19100257 and higher)		
13	TS-0680021	Flat Washer	1/4"	
		Hex Screw		
		Lock Nut		
		Ball Bearing		
		Quill		
		Drift Pin		
		Ball Bearing		
		Spindle		
		Oil Seal		
		Set screw		
		Retainer		
		Set Screw		
27	.TS-0561011	Hex Nut		1
28	.5510273	Depth Rod		1
		Depth Scale Bracket		
30	.5510272	Nut		1
31	.5510278	Depth Scale		1
32	.5510279	Screw		4
		Spring Seat		
34	5510265		3/16"x5/16"	3
		Return Spring		
		Container (includes #35)		
37	TS 0680021	Washer	1///"	1
20	5510261	Set Knob	1/4 1///"	1
		Spring Pin		
		Roll Pin		1
		Hex. Shoulder Bolt		
		Bushing		
		C-Ring		
		Spacer		
		Ball Bearing		
		Hex. Socket Cap Screw		
		Hex Nut		
48	.JDP20VS-LH48	Spindle Pulley		1
		Screw		
50	.5513515	Sensor		1
		Sensor Support		
		Sensor Bracket		
		Washer		
		Hex. Socket Cap Screw		
		Micro switch bracket		
		Micro Switch		
		Screw		
63	IDP20\/ST_63	Micro Switch Support Rod		+ 1
73	321064	Safety Shield Assembly (for all models)		۱۱ ۱
, 0	.02100A			1

13.4.1 Safety Shield Assembly (All Models) – Exploded View



13.4.2 Safety Shield Assembly (All Models) – Parts List

Index No. Part No.	Description	Size	Qty
32106A	Safety Shield Assembly (#1 thru 16)		1
16293347	Spring Pin		
2	Support Bracket Bar		1
3	Bushing		1
432106A-4	Spacer		1
532106A-5	Lock Handle	M6x20	1
6	C-Clip	S30	1
	Bracket		
8	Safety Shield	530x210mm	1
	Lower Bracket Bar		
10TS-1504021	Hex Socket Head Cap Screw	M8x12	1
	Support Arm		
	Hex Nut		
	Spring Washer		
	Hex Socket Head Cap Screw		
	Lock Bolt with Knob		
1632106A-17	Spacer		1



13.5.2 Table and Base Assembly (All Models) – Parts List

Index No.	Part No.	Description	Size	Qty
1	.J-5510288A	Base		1
	.J-5510288AN			1
1-1	.TS-0720111	Lock Washer	1/2"	6
1-2	.TS-0070031		1/2" x 1-1/2"	6
		Coolant Cover Plate		
		Small Cover		
2-2	.20EVS-C4	Screw w/Washer		
7	5510294	Set Screw	3/8"	1 4
		Lock Ring		
9	.J-JJ 10290A		N14	۱۱ ۱
11	. 55 10298			I
12	.5516858			۲۲
		Socket Head Screw		
		Nut		
		Large Bevel Gear		
		Bearing Housing		
		Ball Bearing		
		Cap Screw		
		Small Bevel Gear		
20A	.J-5510305A	Bracket Cover		1
		Ball Bearing		
23	.5510308	Shaft		1
		C-Ring		
25	.TS-1504071	Hex Socket Cap Screw	M8x35	3
26A	.5510311A	Shaft		1
29	.BB-51102	Bearing		1
30	.5510315			1
31	.5510316			1
		Table		
ວອ 12	.0010024			ا۱ م
		Mounting Bracket		
48	. 5510333	Flexible Nozzle		1

Index No. Part No.	Description	Size	Qty
49 5517400	Pan Head Screw		1
50	Clear Vinyl Hose		1
51	Hose Clamp		1
53	Drain Plug		
55J-5517406	Rack Collar		1
	Table Raiser Assembly		
	Flat Washer		
58	Hex Nut		1
59 5517489	Power Cord		1
60	Switch Assembly		1
	Pump Cord		
	•		
62	Hose Clamp, Rad. Type		
65	Coolant System Complete *	1/8 HP, 115/230V, 1 Phase	1
	Coolant System Complete *		
	Socket Set Screw		
J2221-SBCA	Support Bearing Collar Assembly (inclu	ıdes #6,7,7-1,8,9,9-1)	1

* optional accessory

14.0 Electrical connections

Similar diagrams are affixed inside electrical cabinet door. In case of discrepancy, diagrams on machine take precedence.

14.1 JDP-20VS-1 and JDP-20VS-3 wiring diagram







15.0 Warranty and Service

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

Warranty Period

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

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

Who is Covered

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

What is Covered

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

Warranty Limitations

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

How to Get Technical Support

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

More Information

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

How State Law Applies

This warranty gives you specific legal rights, subject to applicable state law.

Limitations on This Warranty

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

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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

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