Drill Press
Säulenbohrmaschinen
Perceuses à colonne

JD-32120

CE

Schweiz / Suisse
JPW (TOOL) AG
Tämperlistrasse 5

France
TOOL FRANCE SARL
9 Rue des Pyrénées, 91090

CE-Conformity Declaration
CE-Konformitätserklärung
Déclaration de Conformité CE

Product / Produkt / Produit:

Drill Press
Säulenbohrmaschinen
Perceuses à colonne

JD-32120

Brand / Marke / Marque:

PROMAC

Manufacturer / Hersteller / Fabricant:

TOOL FRANCE SARL
9 Rue des Pyrénées, 91090 LISSES, France

We hereby declare that this product complies with the regulations
Wir erklären hiermit, dass dieses Produkt der folgenden Richtlinie entspricht
Par la présente, nous déclarons que ce produit correspond aux directives suivantes

2006/42/EC

Machinery Directive
Maschinenrichtlinie
Directive Machines

2014/30/EU

electromagne compa bility
elektromagne sche Verträglichkeit
compa bilité électromagné que

designed in consideration of the standards
und entspechend folgender zusätzlicher Normen entwickelt wurde
et été développé dans le respect des normes complémentaires suivantes

EN ISO 12100 :2010
EN 12717 : 2001+A1 : 2009
EN 61024-1 :2006+A1 : 2009
EN 61000-6-2:2005
EN61000-6-4:2007+A1:2011

Responsible for the Documentation / Dokumentations-Verantwortung / Résponsabilité de Documentation:

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TOOL FRANCE SARL

2018-11-30 Christophe SAINT SULPICE, General Manager

TOOL FRANCE SARL
9 Rue des Pyrénées, 91090 LISSES, France

EN – ENGLISH
NOTE:

1.0 Special Safety Rules For Drill Press:

1. Caution : This drill press is intended for use only with drill bits. This use of other accessories may be hazardous.
2. Correct drilling speeds : Factors which determine the best speed to use in any drill press operation are : Kind of material being worked, size of hold, type of drill or other cutter, and quality of cut desired. The smaller the drill, the greater the required RPM. In soft materials, the speed should be higher than for hard metals.
3. Drilling in metal: Use clamps to hold the work when frilling in metal. The work should never be held
4. in there bare hand, the flutes of the drill may seize the work at any time, especially when breaking through the stock. If the piece is whirled out of the operator's hand, he may be injured, in any case, the drill will be broken when the work strikes the column.
5. The work must be clamped firmly while drilling : Any tilting, twisting, or shifting results not only in a rough hole, but also increases drill breakage. For flat work, lay the piece on a wooden base and clamp it firmly down against the table to prevent it from turning. If the piece is of irregular shape and cannot be laid flat in the table, it should be securely blocked and clamped.
6. The chuck shall be securely fastened to the spindle and so that it can't separate from spindle.
7. Remove Key from chuck after adjustment.
8. The tool is to be disconnected from the power supply while the motor is being mounted, connected or reconnected.
9. Secure the tool to the supporting structure if, during normal operation, there is any tendency for the tool to tip over, slide, or walk on the supporting surface.
10. The set screws of head frame should be screwed tightly before suing this machine.
11. Connect to a supply circuit protected by a circuit breaker or time delay fuse.
12. Fasten base to floor or worktable before using the drill press.

2.0 VII. Important Notice For CE

Handling of Machine

1. The total weight of this machine must be ensured before handling.
2. It is better to handle this machine with the help of lifting tools.

Environment Requirements for Installation

1. Be sure to provide sufficient light for operation according to the codes or regulations published for local area. If you do not get the information about lighting, a light intensity of 300 Lux is the least value to be supplied.
2. The place where machine install must be flat and big enough for the operation.

Noise Level

1. The noise level of this machine is about 75 db(A)during operation.
2. While taking provisions for the risk of noise, the noise level of working environment should be taken into consideration also.

3.0 VII Electric

ELECTRICAL CONNECTION/DISCONNECTION & OPERATION

For three phase :

1. **Electrical connection:**
   1. A cable with four wires is equipped to connect your machine into the 3 phase power supply. ***Please connect your machine into the power supply with hand-operated disconnecting device,*** which is in compliance with subclause 5.3 of EN 60204-1, such as on fuse breaker or plug/socket combination.
   2. For the protection of control device, we recommend the operation to supply ***a fuse with 15 A current rating of fuse,*** and the total length between fuse and connection terminal shall not exceed 1.5m.
   3. The ***exact power source voltage, frequency, and number of phase*** shall be checked according to the installation diagram and circuit diagram.
   4. ***The correct direction of drilling press should be checked after connecting.***

2. **Electrical disconnection:**
   1. The disconnection is carried out by hand-operated disconnection device.
   2. Be sure to disconnect this machining from power source, when you want to stop the job, Maintenance, and adjustment.

3. **Grounding**

The grounding of the drilling press is carried out ***by connecting the Yellow/Green terminal of supply cable*** to the grounding terminal of power source. Be sure to ground your machine before connecting machine to power source in any situation.

WARNI

Do not disconnect grounding terminal before disconnecting power source.

For single phase :

1. The connect, disconnection, and grounding is carried out ***through the plug,*** equipped on the drilling press. For the safety reason, ***Do not change this plug into any the other type in any situation.***
2. The ***exact power source voltage, frequency, and number of phase*** shall be checked according to the installation diagram and circuit diagram.

Operation:

1. ***"START"*** : Push the button marked with **" I "**.
2. ***"STOP"***: Push the button marked with **" O ".**
3. ***"Interlock Switch"***: Limit switch in the pulley cover.
4. ***"Limited Switch***": Chuck guard disconnection
5. ***"Emergency Switch"*****:** Button with **"RED"**

WARNI

Do not stop machine with interlock switch in normal operation.

4.0 Specifications

Model number JD-32120
Stock number ..... JD_32120

Motor and electricals:

Motor type ..... totally enclosed fan cooled, induction
Horsepower ..... 1-1/2 HP
Phase 1
Voltage 230V
Cycle 50Hz
Listed FLA (full load amps) ..... 8.7 A
Starting amps ..... 16 A
Running amps (no load) ..... 4.3 A
Power transfer ..... v-belt
On/off switch ..... push button
Motor speed ..... 1420 RPM
Main power cord ..... H05VVF-4G 1.0 m/m^2 VDE(300cm) with Plug
Sound emission ..... 70 dB at 40 in. without load

Head and Capacities:

Swing [2] ..... 560 mm
Chuck style and shank capacity 18mm
Chuck arbor taper MT3
Spindle taper MT3
Spindle travel, maximum ..... 122 mm
Spindle travel per one revolution of handle ..... 115 mm
Quill diameter ..... 62 mm
Number of spindle speeds 12
Maximum no-load speed range ..... 145 to 2530 RPM
Maximum spindle to table distance ..... 710 mm
Maximum spindle to base distance ..... 1230 mm
Maximum chuck to table distance ..... 622 mm
Maximum chuck to base distance ..... 990 mm
Drilling capacity, cast iron ..... 32 mm
Drilling capacity, mild steel ..... 25 mm

Materials:

Head ..... cast iron
Table ..... surface-ground cast iron
Column ..... steel
Base ..... cast iron

Table:

Table size ..... 473 x 410 mm
Table slots, number of 3
Table slots, general size (WxD) ..... 16 x 25.4 mm
T-slot dimensions (WxD) ..... 25.4 x 9.5 mm
Distance between slots (centers) ..... 91 mm
Table tilt ..... 45 deg. L and R
Table rotation around column ..... 360 deg.
Table elevating system ..... worm gear with rack
Recommended maximum weight on table ..... 80 kg

[1] Subject to local and national electrical codes
[2] Swing is twice the distance from column to spindle center (i.e., the maximum diameter of workpiece that can be drilled to its center).

Base and Column:

Base size (LxWxH)	575 x 494 x 86 mm
Base working surface	545 x 465 mm
Base slots, number of	2
Base slots, general size (WxD)	16 x 25.4 mm
T-slot dimensions (WxD)	25.4 x 9.5 mm
Distance between base slots (centers)	238 mm
Column diameter	92 mm

Dimensions and Weights:

Overall dimensions, assembled	890 x 480 x 1700 mm
Shipping dimensions	930 x 530 x 1890 mm
Net weight (approximate)	146 kg
Shipping weight (approximate)	165 kg

L = length; W = width; H= height; D= depth

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

Base mounting hole dimensions

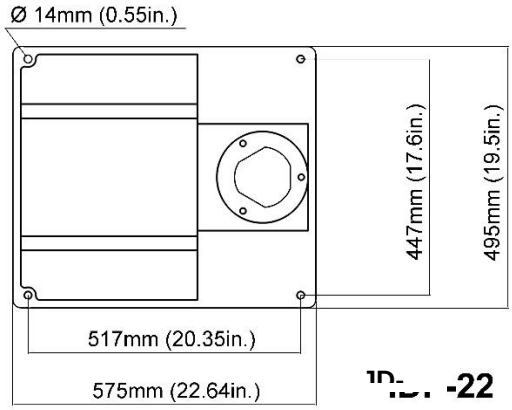


Figure 5-1: Base hole patterns

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

5.0 Setup and assembly

5.1 Unpacking and cleanup

Remove all contents from shipping carton and compare parts to the contents list in this manual. If shipping damage or any part shortages are identified, contact your distributor. Do not discard carton or packing material until drill press is assembled and running satisfactorily.

Clean all rust protected surfaces with kerosene or a light solvent. Do not use lacquer thinner, paint thinner or gasoline, as these can damage plastic components and painted surfaces.

5.2 Shipping contents

Carton contents

1 Drill press
1 Crank handle
3 Feed handles
1 Chuck and key
1 Arbor
1 Wrench
1 Drift key
2 Hex wrenches – 3mm, 5mm
1 Owner's manual
1 Warranty registration card

5.3 Tools required for assembly:

3mm hex wrench (provided)
Rubber mallet

5.4 Assembly

1. Install 3 feed handles into hub (D, Figure 6-2).
2. Install crank handle on shaft of table bracket, and tighten set screw with 3mm hex wrench. (Figure 6-1)

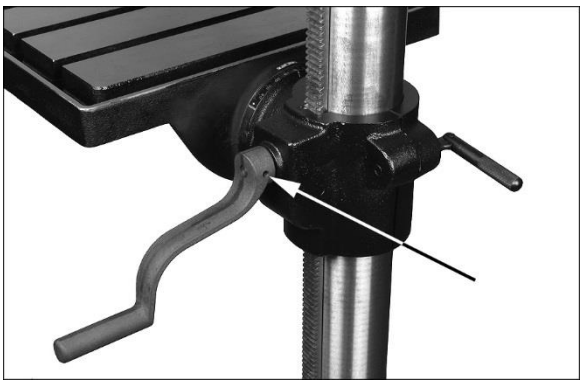


Figure 6-1: installing crank handle

5.4.1 Chuck and arbor installation

1. Thoroughly clean arbor (A, Figure 6-2), chuck (B) and spindle (C). Any grease or residue in these areas can cause the pieces to separate and create a safety hazard as well as damage to the tool.

Twist chuck to retract chuck jaws if they are exposed.

Push chuck (B) by hand onto arbor (A), and slide assembly firmly up into spindle (C).

Turn arbor and chuck assembly until tang (A_1) on arbor engages slot at end of spindle.

Use one or two sharp taps from a rubber mallet, or a hammer and a block of wood, against bottom of chuck to seat chuck securely onto arbor.

⚠CAUTION Do not use a steel hammer directly against chuck, as this may damage chuck.

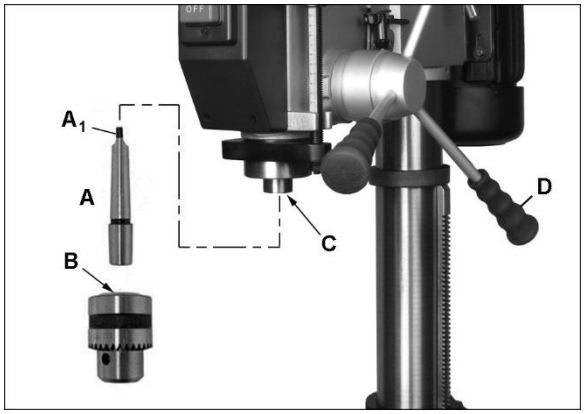


Figure 6-2: installing chuck and arbor

5.4.2 Chuck and arbor removal

1. Unplug machine from power source.

Raise table until it is about seven inches below chuck.

Place a piece of scrap wood on table, and lower quill (Figure 6-3) using feed handles.

Rotate spindle to align keyhole in spindle with keyhole in quill.

Insert drift key (E, Figure 6-3) into aligned slots and tap lightly. The chuck and arbor assembly should fall from the spindle.

⚠CAUTION Catch chuck as it is released; allowing it to fall to floor may damage it.

5.4.3 Wrench and key storage

Wrenches, chuck key, and drift key can be stored on fixture on right side of drill press head.

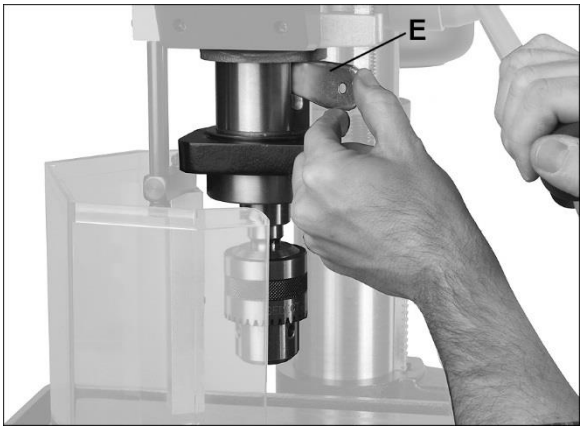


Figure 6-3: drift key insertion

6.0 Electrical connections

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

The JD-32120 Drill Presses are rated at 230V power, The drill press comes with a plug designed for use on a circuit with a *grounded outlet* .

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

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 and a grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

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

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.

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.

6.2 Extension cords

The use of extension cords is discouraged; try to position machines near the power source. If an extension cord is necessary, make sure it is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Amp Rating		Volts	Total length of cord in feet			
More Than	Not More Than	120 240	25 50	50 100	100 200	150 300
			AWG			
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recommended	

Table 1: Extension cord recommendations

7.0 Adjustments

7.1 Depth stop adjustment

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

1. Make a pencil mark on edge of workpiece to indicate depth of hole.
2. With drill bit in chuck, lower downfeed handle to advance bit to your mark.
3. With your other hand, advance lock nuts (A, Figure 8-1) on the depth stop rod until they are snug to the seat (B).

The drill bit will now advance to this point.

To release, advance nuts counterclockwise to top of depth stop.

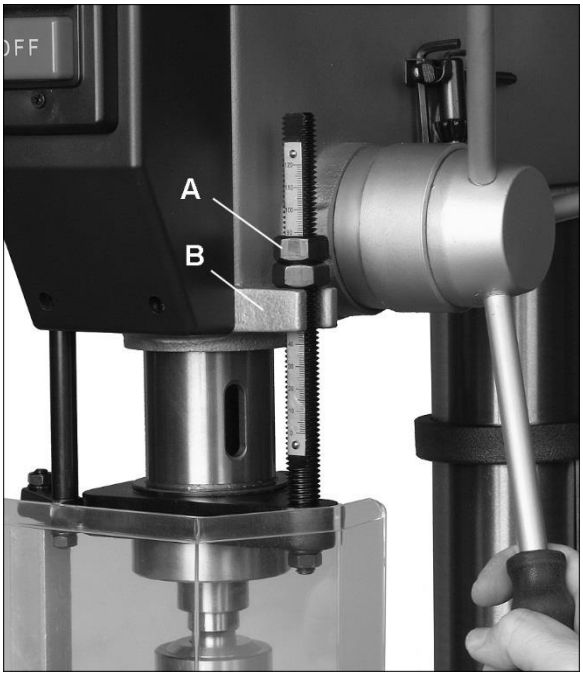


Figure 8-1: depth stop adjustment

7.2 **Changing spindle speeds**

A spindle speed and pulley/belt arrangement chart is affixed inside pulley cover, and also shown in *sect. 11.0* of this manual.

To change spindle speeds:

1. Unplug machine from power source.
2. Loosen two thumb screws (C, Figure 8-2) found on each side of head assembly.
3. Rotate tension handle (D) clockwise to bring motor base as close to head as possible.
4. For desired speed, change location of belts per pulley/belt arrangement chart.
5. Rotate tension handle (D) counterclockwise to tension belts.
6. Tighten both thumb screws (C). Belts are properly tensioned when finger and thumb pressure midway between the two pulleys causes approximately 1/2-inch deflection.

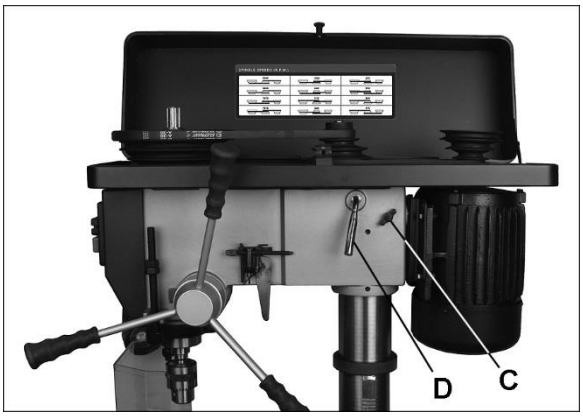


Figure 8-2: belt/speed adjustment

7.3 **Return spring adjustment**

The return spring is adjusted by the manufacturer and should not require attention. If adjustment is deemed necessary, follow the steps below while referring to Figure 8-3:

1. Unplug machine from power source.
2. Loosen lock nut (E). *Do not remove*.
3. Firmly hold coil spring cover (F).
4. Pull out cover and rotate until pin (G) on housing engages the next notch in coil spring cover. Turn cover clockwise to decrease tension and counterclockwise to increase tension.
5. Tighten lock nut (E). *Do not over-tighten or force nut too strongly against spring cover.*

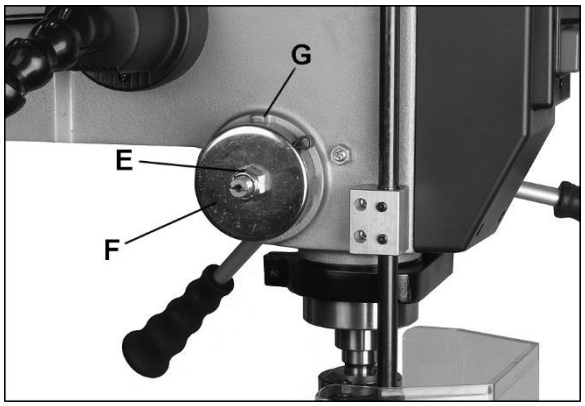


Figure 8-3: return spring adjustment

7.4 **Table tilt adjustment**

Table tilt adjustments are made on table bracket beneath table.

Refer to Figures 8-4 and 8-5.

⚠CAUTION **In the following steps do not over-loosen. This could cause table assembly to separate from column, fall and cause injury.**

1. **JD-32120:** Loosen set screw (H) with 5mm hex wrench)
2. **JD-32120:** Loosen two hex nuts (J) with 19mm or adjustable wrench.
3. Tilt table to desired angle, referring to scale and pointer atop table bracket.
4. Tighten screw or nuts (J).
5. Tighten set screw (H).

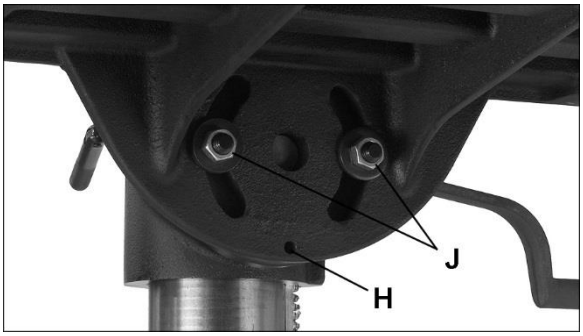


Figure 8-5: table tilt (JD-32120 only)

8.0 **Operating controls**

Press ON button to start spindle rotation. Press OFF to stop.

9.0 **Operation**

1. Insert drill bit into chuck jaws about 25.4mm deep. When using a small bit, do not insert it so far that the jaws touch the flutes of the bit. Make sure bit is centered in chuck before tightening chuck with key.

For a small workpiece that cannot be clamped to the table, use a drill press vise. The vise must be clamped or bolted to the table. Always use a back-up piece of scrap wood to cover the table. This protects both table and drill bit.

⚠WARNING Workpiece must be clamped to table or secured in a drill press vise that is securely fastened to 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. Soft materials require higher speeds; hard metals slower speeds.

10.0 **User-maintenance**

⚠WARNING Before any intervention on the machine, disconnect it from electrical supply by pulling out plug or turning off main switch at electrical source. Failure to comply may cause serious injury.

A coat of automobile-type wax applied to table and column will help keep surfaces clean.

Check that bolts are tight and electrical cords are in good condition. If an electrical cord is worn, cut, or damaged in any way, have it replaced immediately.

In dusty environments, frequently blow out any dust that accumulates inside the motor fan cover.

Belts should be in good condition with no signs of cracks, frays or deterioration.

10.1 **Lubrication**

All ball bearings are pre-lubricated and sealed, and require no further lubrication.

Periodically apply #2 tube grease to:

- Rack.
- Table elevating mechanism, including worm gear.
- Splines (grooves) in spindle.
- Teeth of quill.

Periodically apply light coat of machine tool oil to quill and column.

The quill return spring should receive SAE 20 oil once yearly. Apply the oil beneath spring cover (F, Figure 8-3) using a squirt can.

10.2 **Belt replacement**

To loosen and remove the existing v-belts, use the same procedures described in *sect. 7.2, Changing spindle speeds.*

11.0 Spindle speed charts

11.1 Speed selection for JD-32120 Drill Press

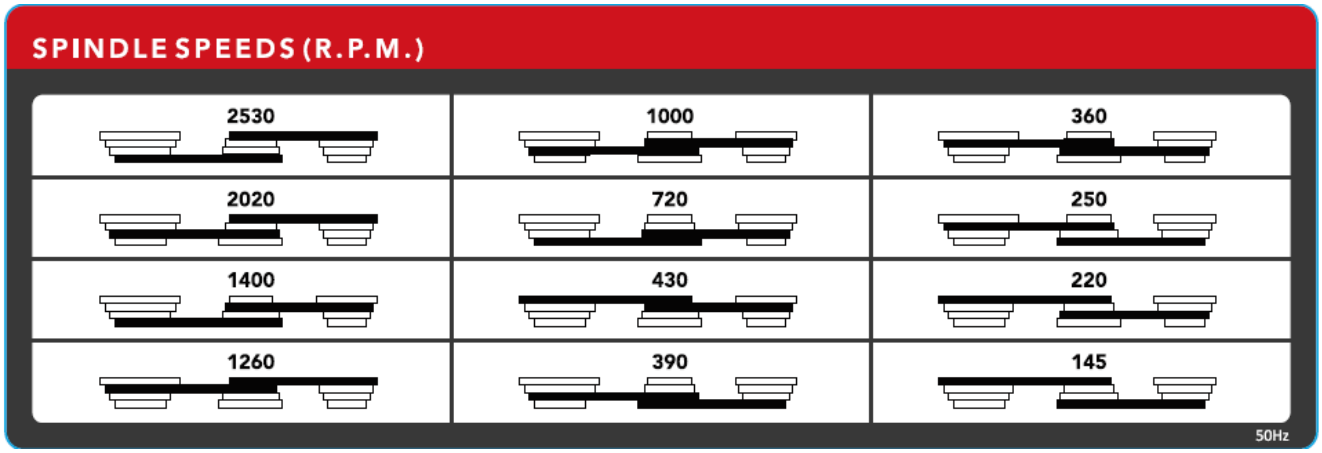


Figure 12-2: JD-32120 only

12.0 **Troubleshooting JD-32120**

Symptom	Possible Cause	Correction *
Drill press will not start.	Drill press unplugged from wall, or motor.	Check all plug connections.
	Fuse blown, or circuit breaker tripped.	Replace fuse, or reset circuit breaker.
	Cord damaged.	Replace cord.
	Starting capacitor bad.	Replace starting capacitor.
Drill press does not come up to speed.	Extension cord too light or too long.	Replace with adequate size and length cord.
	Low current.	Contact a qualified electrician.
Drill Press vibrates excessively.	Base on uneven surface.	Locate drill press on even floor.
	Bad belt(s).	Replace belts.
Noisy operation.	Incorrect belt tension.	Adjust belt tension.
	Dry spindle.	Lubricate spindle.
	Loose spindle pulley.	Check tightness of retaining nut on pulley, and tighten if necessary.
	Loose motor pulley.	Tighten setscrews in pulleys.
Workpiece burns or smokes.	Incorrect Speed.	Change to appropriate speed.
	Chips not clearing from hole or bit.	Retract drill bit frequently to remove chips.
	Dull drill bit.	Resharpen, or replace drill bit.
	Feeding too slowly.	Increase feed rate.
Drill bit wanders.	Bit sharpened incorrectly.	Resharpen bit correctly.
	Bent drill bit.	Replace drill bit.
	Bit, or chuck not installed properly.	Reinstall the chuck, or bit properly.
Wood splinters on the underside.	No backing board used.	Place a scrap board underneath the workpiece to prevent splintering.
Drill bit binds in workpiece.	Workpiece pinching the bit.	Support or clamp workpiece.
	Excessive feed rate.	Decrease feed rate.
	Chuck jaws not tight.	Tighten chuck jaws.
	Improper belt tension.	Adjust belt tension.
Excessive drill bit runout, or wobble.	Bent drill bit.	Replace drill bit.
	Worn spindle bearings.	Replace spindle bearings.
	Bit, or chuck not properly installed.	Reinstall the bit, or chuck properly.
Quill returns too slow, or too fast.	Improper spring tension.	Adjust spring tension.
Chuck or arbor does not stay in place.	Dirt, grease, etc on arbor, chuck, or spindle.	Clean all mating surfaces thoroughly with a cleaner-degreaser.

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

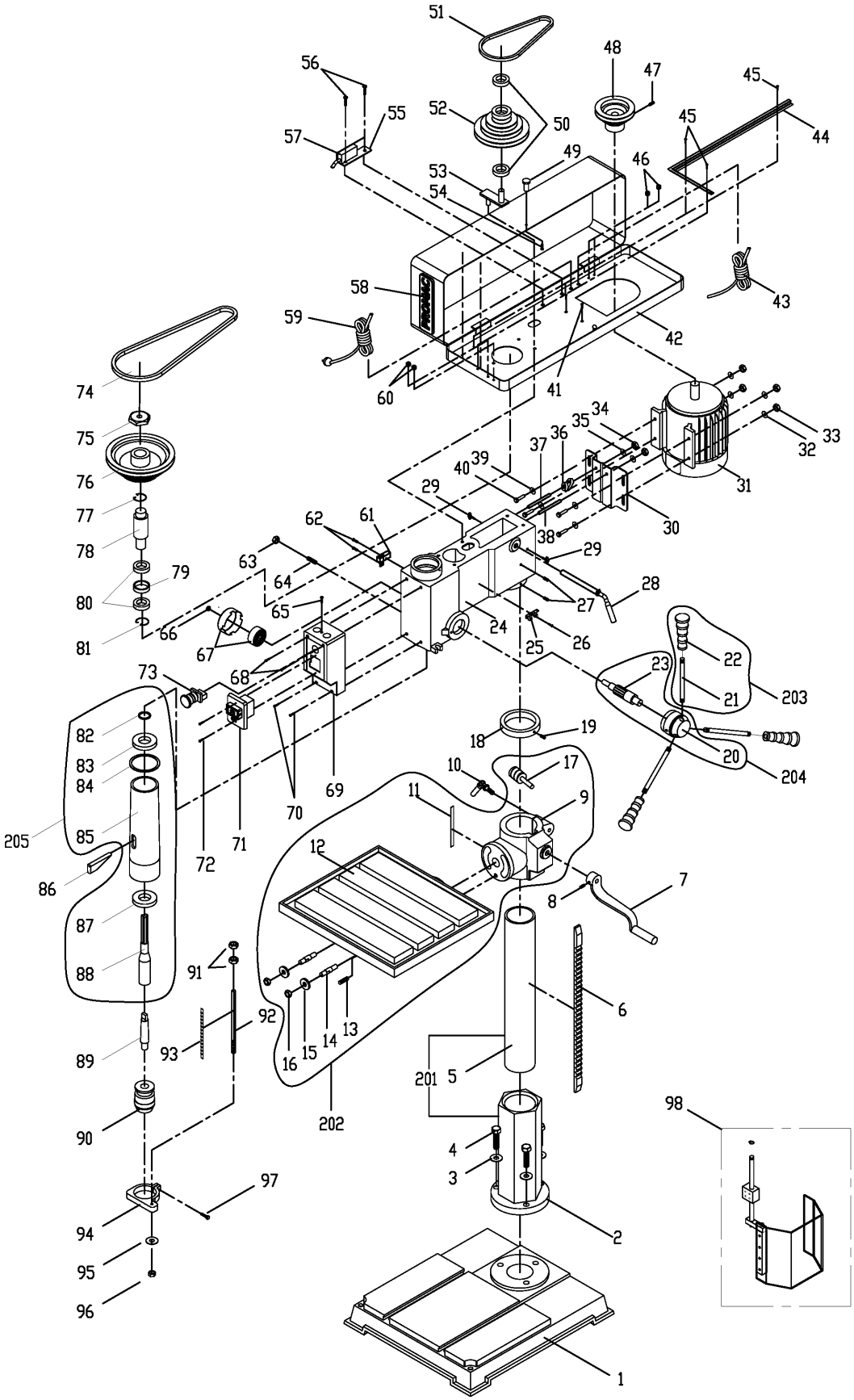
Table 2

13.0 **Replacement Parts**

Replacement parts are listed on the following pages. Some parts are shown for reference only, and may not be available individually.

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

13.1.1 JD-32120 Drill Press – Exploded View



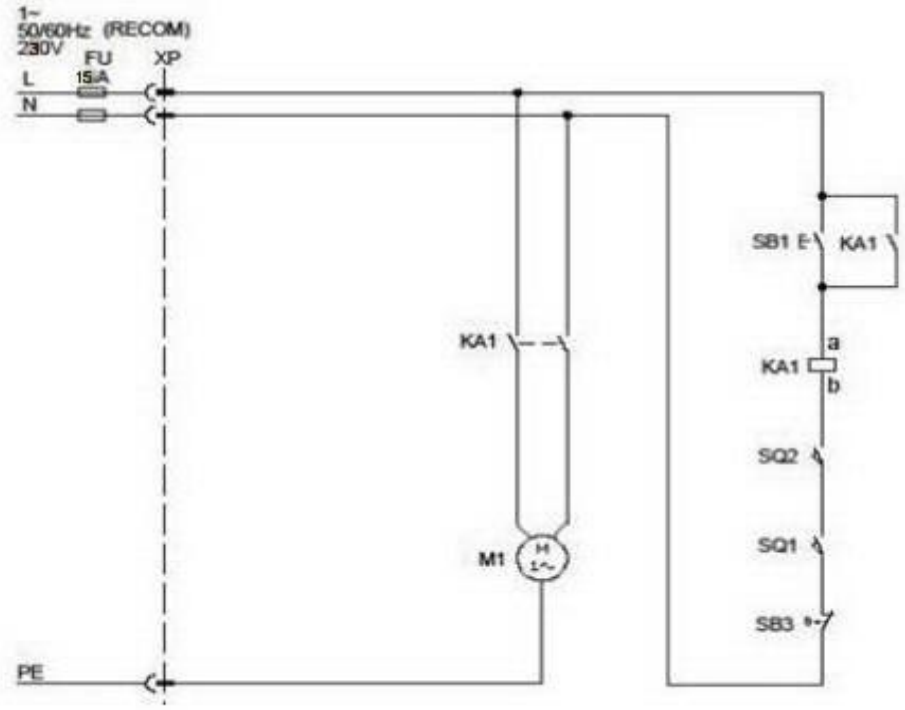
13.1.2 JD-32120 Drill Press – Parts List

Index No	Part No	Description	Size	Qty
1	IDP22-01	Base	575 x 500 x 85	1
201	IDP22-201	Column Assembly (#2,5)		1
2	IDP22-02	Column Holder		1
3	TS-0720111	Spring Washer	1/2"	3
4	TS-0070051	Hex Cap Screw	1/2" x 2 mm	3
5	IDP22-05	Column	Ø92	1
6	IDP22-06	Rack		1
7	IDP22-07	Table Crank		1
8	TS-0267041	Set Screw	1/4" x 3/8"	1
9	IDP22-09	Table Bracket		1
10	IDP22-10	Clamp Bolt	1/2" x 70 mm	1
11	IDP22-11	Tilt Angle Scale		1
12	IDP22-12	Work Table	475 x 413 x 41	1
202	IDP22-202	Table Assembly (#9, 11-16)		1
13	TS-0271031	Set Screw	3/8" x 3/8"	1
14	IDP22-14	Screw	9/16" x 1/2" x 62	2
15	TS-0680061	Flat Washer	1/2" x 34 x 5 mm	2
16	TS-0561051	Hex Nut	1/2"	2
17	IDP22-17	Worm Gear Assembly		1
18	IDP22-18	Rack Collar	Ø92	1
19	TS-0267021	Set Screw	1/4" x 1/4"	1
20	IDP22-20	Feed Hub		1
21	IDP22-21	Handle		3
22	IDP22-22	Knob		3
203	IDP17-203	Feed Handle Assembly (#21,22)		3
23	IDP22-23	Feed Pinion		1
204	IDP22-204	Feed Pinion Assembly (#20,23)		1
24	IDP22-24	Head Casting		1
25	IDP22-25	Chuck Key Fixture		1
26	5711571	Phillips Pan Head Screw	3/16" x 1/4"	1
27	TS-0271031	Set Screw	3/8" x 3/8"	2
28	IDP22-27	Tension Adjust Handle		1
29	IDP22-29	Thumb Screw	3/8” x 32	2
30	IDP22-30	Mounting Plate		1
31	PM-JD3212031	Motor	1-1/2HP, 230V, 50Hz, 4P	1
	PM-JD3212031-1	Motor Fan		1
	PM-JD3212031-2	Motor Fan Cover (not shown)		1
	PM-JD3212031-3	Junction Box		1
	PM-JD3212031-4	Junction Box Cover		1
32	TS-0680031	Flat Washer	5/16"	4
33	TS-0561021	Nut	5/16"	4
34	TS-0561051	Nut	1/2"	2
35	TS-0680061	Spring Washer	1/2"	2
36	IDP22-36	Shaft Lever		1
37	IDP22-37	Adjusting Bolt B		1
38	IDP22-38	Adjusting Bolt A		1
39	TS-0680031	Flat Washer	5/16"	4
40	TS-0051011	Hex Cap Screw	5/16" x 1"	4
41	TS-0207011	Screw With Washer	1/4" x 3/8"	4
42	IDP22-42	Pulley Cover		1
43	PM-JD3212043	Motor Cord		1
44	IDP22-44	Hold Down Strip		1
45	TS-2172001	Phillips Flat Head Screw	3/16" x 1/4"	1
46	IDP22-46	Wire fixed buckle		1
47	TS-1523011	Set Screw	M6 x 8mm	1
48	IDP22-48	Motor Pulley		1
49	IDP22-49	Knob		1
50	BB-6202	Ball Bearing	6202	2
51	VB-A27	V-Belt	A27	1

Index No	Part No	Description	Size	Qty
52	IDP22-52	Center Pulley		1
53	IDP22-53	Pivot Bracket		1
54	TS-081F031	Socket Head Butoon Screw	1/4" x 1/2"	1
55	PM-JD3212055	Limit Switch Plate		1
56	TS-2172001	Phillips Flat Head Screw	3/16" x 1/4"	2
57	PM-JD3212057	Pulley Cover Limit Switch		1
58	PROMAC 160	Name Plate (PROMAC)		1
59	PM-JD3212059	Power Cord	3G 1.0m/m2 250V/440V	1
60	PM-JD3212060	Wire Fixed Buckle		1
61	PM-JD3212061	Sinpdle Grard Limit Switch		1
62	TS-2172021	Phillips Flat Head Screw	3/16" x 3/8"	1
63	TS-0561021	Nut	5/16"	1
64	TS-0270092	Screw	5/16" x 26mm	1
65	IDP17-94	Bush		1
66	TS-0561051	Nylon Nut	1/2"	1
67	IDP22-63	Spring Cover	1/2"	1
68	PM-JD3212068	Socket Head Butoon Screw	3/16" x 80mm	2
69	IDP22-65M	Switch Box		1
70	TS-1533062	Socket Head Butoon Screw	3/16" x 1-1/4mm	2
71	PM-JD3212071	NVR Switch		1
72	TS-2163022	Socket Head Butoon Screw	3/16" x 3/8"	2
73	PM-JD3212073	Emergency Switch		1
74	VB-A38	V-Belt	A38	1
75	TS-0561011	Nnt	1-1/4"	1
76	IDP22-71	Spindle Pulley		1
77	F006058	Retaining Ring		1
78	IDP22-73	Drive Taper		1
79	IDP22-74	Ball Spcer		1
80	BB-6007	Ball Bearing	6007	2
81	F006058	Retaining Ring		1
82	IDP22-76	Retaining Ring		1
83	BB-6005	Ball Bearing	6005	1
84	IDP22-78	Rubber Washer		1
85	IDP22-79	Quill		1
205	IDP22-205	Quill Assembly	Including (#82~85, #87 & #88)	1
86	IDP22-80	Wedge		1
87	BB-6206	Ball Bearing	6206	1
88	IDP22-82	Spindle	MT3	1
89	PM-JD3212089	Morse Taper Arbor		1
90	PM-JD3212090	Chuck Keyless		1
91	TS-0640132	Nut	5/8"	2
92	IDP22-90	Scale Bolt		1
93	IDP22-92	Scale		1
94	IDP22-86	Scale Frame		1
95	TS-2362101	Spring Washer	3/8"	1
96	TS-0610031	Hex Nut	3/8"	1
97	TS-1346072	Screw	1/4" x 1"	1
98	IDP17-92	Spindle Guard Assembly		1

14.0 Electrical Connections for JD-32120

Electrical circuit diagram



Item designation	Description & function	Maker	Type	Technical data	Making of conformity granted
XP	Plug for supply Single phase	LIAN DUNG	LT-32	10~16A , 250V	
	Supply cable Single phase	TIEN TUNG	H05W-F	3G 1.0m/m2 250V	VDE/ROHS
SB1	Start switch	KED V	JD3	230V/10A	CE TUV
SB3	Emergency-Stop switch	XINQUANG	KB2-BE102	10A	CE
SQ1	Micro switch	HIEHLY	VS 10N	250V/10A	UL
KA1	Magnetic Conductor	KEDU	JD3	AC230V/50HZ 12A	CE TUV
M1	Motor	K & K		AC230V/50Hz 1420rpm	CE TUV
SQ2	Micro switch	Zhejiang Tiande	CLS-103	250V/10A	CE

Environmental protection

Protect the environment.

Your appliance contains valuable materials which can be recovered or recycled. Please leave it at a specialized institution.

This symbol indicates separate collection for electrical and electronic equipment required under the WEEE Directive

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Umweltschutz

Schützen Sie die Umwelt!

Ihr Gerät enthält mehrere unterschiedliche, wiederverwertbare Werkstoffe.
Bitte entsorgen Sie es nur an einer spezialisierten Entsorgungsstelle.

Dieses Symbol verweist auf die getrennte Sammlung von Elektro- und Elektronikgeräten, gemäß Forderung der WEEE-

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Protection de l'environnement

Protégez l'environnement !

Votre appareil comprend plusieurs matières premières différentes et recyclables. Pour éliminer l'appareil usagé, veuillez l'apporter dans un centre spécialisé de recyclage des appareils électriques.

Ce symbole indique une collecte séparée des équipements électriques et électroniques conformément à la directive DEEE

Warranty / Garantie

TOOL FRANCE SARL guarantees that the supplied product(s) is/are free from material defects and manufacturing faults. This warranty does not cover any defects which are caused, either directly or indirectly, by incorrect use, carelessness, damage due to accidents, repairs or inadequate maintenance or cleaning as well as normal wear and tear.
Further details on warranty (e.g. warranty period) can be found in the General Terms and Conditions (GTC) that are an integral part of the contract.
These GTC may be viewed on the website of your dealer or sent to you upon request.
TOOL FRANCE SARL reserves the right to make changes to the product and accessories at any time.

– –

TOOL FRANCE SARL garantiert, dass das/die von ihr gelieferte/n Produkt/e frei von Material- und Herstellungsfehlern ist. Diese Garantie deckt keinerlei Mängel, Schäden und Fehler ab, die - direkt oder indirekt - durch falsche oder nicht sachgemäße Verwendung, Fahrlässigkeit, Unfallschäden, Reparaturen oder unzureichende Wartungs- oder Reinigungsarbeiten sowie durch natürliche Abnutzung durch den Gebrauch verursacht werden.
Weitere Einzelheiten zur Garantie können den allgemeinen Geschäftsbedingungen (AGB) entnommen werden.
Diese können Ihnen auf Wunsch per Post oder Mail zugesendet werden.
TOOL FRANCE SARL behält sich das Recht vor, jederzeit Änderungen am Produkt und am Zubehör vorzunehmen.

– –

TOOL FRANCE SARL garantit que le/les produit(s)fourni(s) est/sont exempt(s) de défauts matériels et de défauts de fabrication.
Cette garantie ne couvre pas les défauts, dommages et défaillances causés, directement ou indirectement, par l'utilisation incorrecte ou inadéquate, la négligence, les dommages accidentels, la réparation, la maintenance ou le nettoyage incorrects et l'usure normale.
Vous pouvez trouver de plus amples détails sur la garantie dans les conditions générales (CG).
Les CG peuvent être envoyées sur demande par poste ou par e-mail .
TOOL FRANCE SARL se réserve le droit d'effectuer des changements sur le produit et les accessoires à tout moment.

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