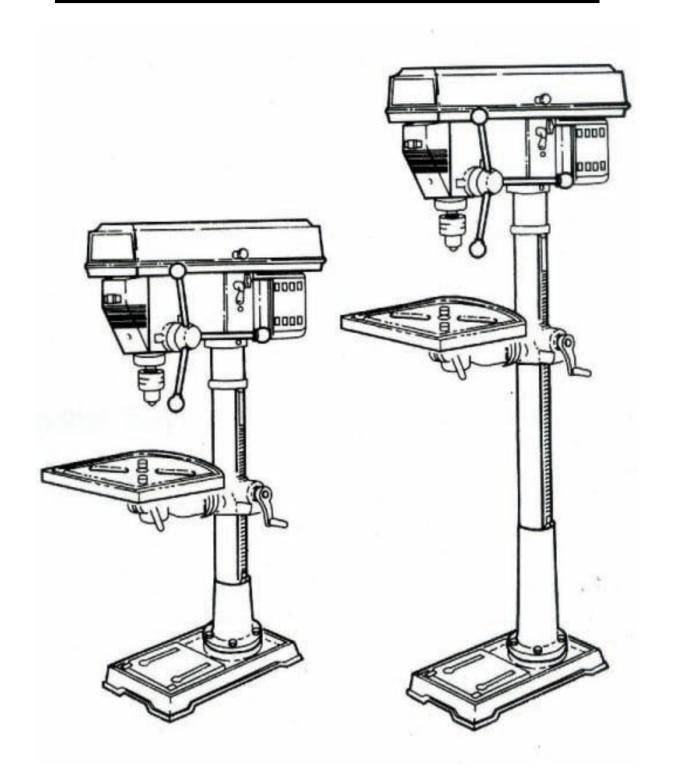
MODEL 1316B/1316F



FOR YOUR SAFETY: READ ALL INSTRUCTIONS CAREFULLY

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General safety instructions for Power Tools

1.KNOW YOUR POWER TOOL

Read and understand the ower's manual and labels affixed to the tool.Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

2.GROUND ALL TOOLS

This tool is equipped with an approved 3 conductor and a 3 prong grounding type plug to fit the proper grounding type receptacle.

3.KEEP GUARDS IN PLACE

In working order and in proper adjustment and alignment.

4.WEAR PROPER APPAREL

Do not wear loose clothing, gloves, neckties, or jewelry (rings, wrist, watches) to get caught in moving parts. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

5.USE SAFETY GOGGLES

6.KEEP WORK AREA CLEAN

Cluttered areas and benches invite accidents. Floor must not be slippery due to wax or sawdust.

7.KEEP CHILDREN AWAY

Main Specification

Drill Capacity 16 mm / 5/8 in.
Chuck Capacity 16 mm / 5/8 in.
Swing 330 mm / 13 in.

Spindle Taper MT2

 Spindle Travel
 80 mm / 3-5/32 in.

 Column Diameter
 73 mm / 2-7/8 in.

 Motor
 120V/1ph/600W

Rack & Pinion Yes

Base Size 450 × 270mm / 17-23/32 × 10-5/8 in.

Table Size dia 300mm / 11-13/16 in.

Overall Height DP33016B: 990 mm / 38-31/32 in. DP33016F: 1630mm / 64-11/64 in.

Range of spindle speeds

16 speeds

Motor Speed					Sı	oindle	Speed	ls (mir	า-1)				
1700 min ⁻¹	220	300	430	480	590	650	720	850	900	950	1600	1900	2000
	2500	2900	3600										

Unpacking and checking contents

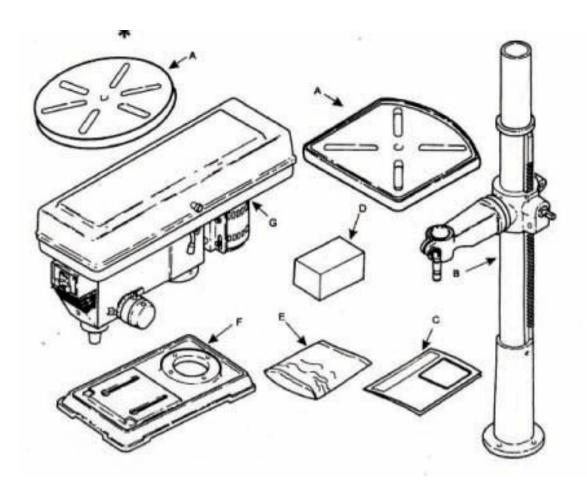
1. Unpacking and checking contents

Separate all the parts from packaging materials and check each item make sure all items are accounte for before discarding any packing material.

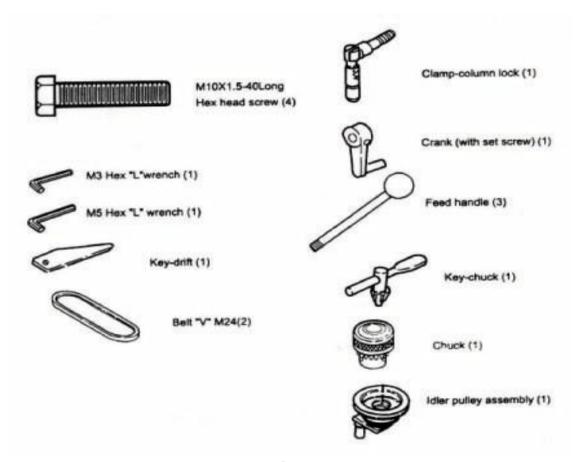
Item	Description	Qty
Α	Table (square or Round)	1
В	Column Support Asm	1
С	Owner's Manual	. 1
D	Box of Loose Parts	. 1
E	Bag of Loose Parts	*
F	Base	. 1
G	Head Asm	1

- 2.Remove the protective oil that is applied to the table and column. Use any ordinary household type grease and spot remover
- 3.Apply a coat of paste wax to the table and column to prevent rust. Wipe all parts thoroughly with clean dry cloth.

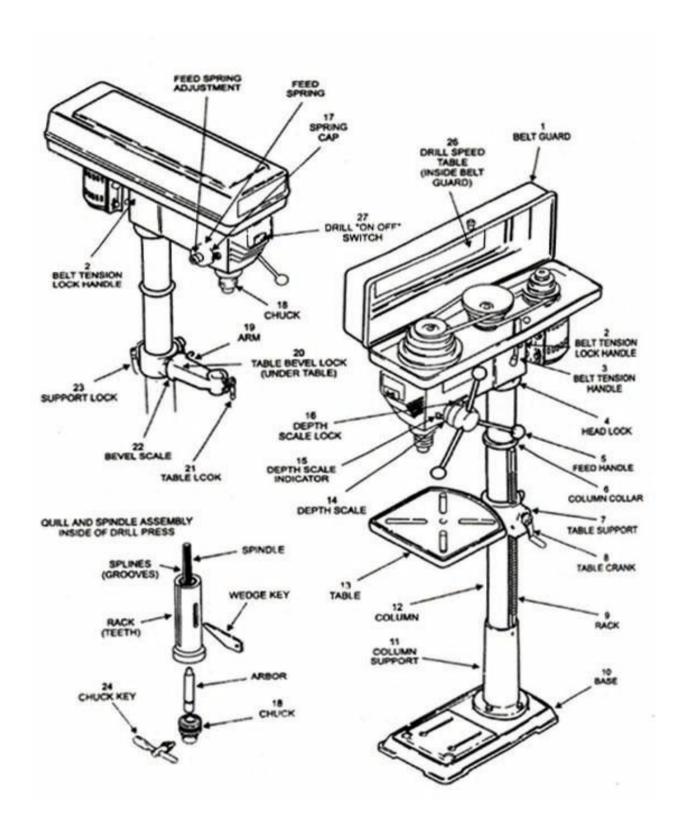




List of Loose Parts in the box and bags



Getting to know your drill press



Assembly

1 Base

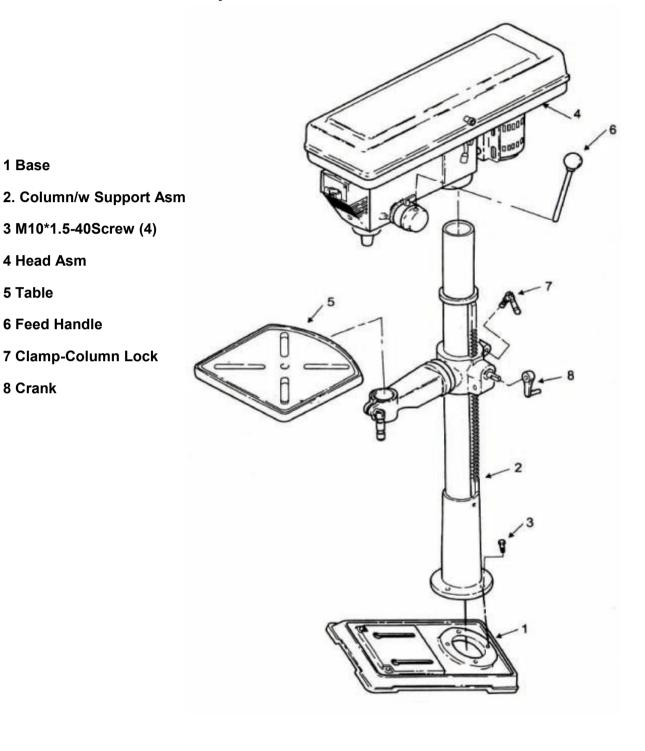
4 Head Asm

6 Feed Handle

5 Table

8 Crank

Refer to the figure install all parts correctly, tighten the screw and bolts securelly.



Lubrication

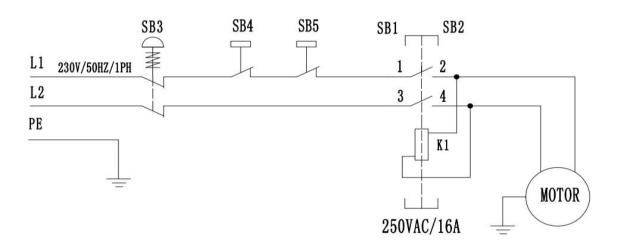
All of the BALL BEARING are packed with grease at the factory. They require no further lubrication. Periodically lubricate the table elevation machanism, the SPLINES (grooves) in the spindle, and the RACK (teeth of the quill), see "Getting to know your drill press."

Maintenance

Frequently blow out any dust that may accumulate inside the motor.

A coat of automotive type paste was applied to the table and column will help to keep the surfaces clean.

Wire diagram



Part No.	Component/Object	Manufacturer	PCS	
Motor	Motor	AC250V/1PH/400W	1	
SB1	_Magnetic Switch	250VAC/16A	1	KJD12
SB2	- Magnetic Switch	2304A0/10A	•	NJD 12
SB3	Push Button-Emergency Stop	250VAC/12A	1	HY57B
SB4	Micro Switch	250VAC/16A	1	KW-7-3B
SB5	Micro Switch	250VAC/16A	1	KW7

Trouble Shooting

TROUBLE PROBABALE CAUSE	REMEDY
1.Incorrect belt tension.	1.Adjust tension.
2.Dry Spindle.	2.Lubricate spindle.
Noisy Operation 3.Loose spindle pulley	3. Checking tightness of retaining nut on pulley, and tighten if necessary.
4.Loose motor pulley	4. Tighten setscrews in pulleys.
1.Incorrect speed.	1.Change speed.
2.Chips not coming out of	of hole. 2.Retract drill bit frequently to clear chips.
Drill bit burns 3.Dull drill bit	3.Resharpen drill bit.
4.Feeding too slow	4.Faster the speed.
5.Not lubricated	5.Lubricate drill bit.
Drill bit leads off hole not round 1.Hard grain in wood or lengths of cutting lips and/or angles not equal	1.Resharpen drill bit correctly.
2.Bent drill bit	2.Replace drill bit.
Wood splinters on 1.No "back up material"	1.Use "back-up material"
underside under workpiece.	
Workpiece turn 1.Not supported or	1.Support working or clamp it.
loose from hand clamped properly.	
1.Workpiece pinching dr	ill bit 1.Support working or clamp it.
Drill bit binds in workpiece or excessive feed pressu	ıre.
2.Improper belt tension.	2.Adjust temsion.
1.Bent drill bit	1.Use a straight drill bit.
2.Worn spindle bearings	. 2.Replace bearings.
Excessive drill bit runout or wobble 3.Drill but not properly	3.Install drill bit properly.
installed in chuck	
4.chuck not properly ins	talled. 4.Install chuck properly.
Quill Returns too slow or too fast 1.Spring has improper to	ension. 1.Adjust spring tension.
1.Dirty,grease,or oil on the	he 1.Using a household detergent clean the
Chuck will not stay atached to spindle tapered inside surface of	f chuck tapered surface of the chuck and spindle to
if falls off when trying to install it.	remove all dirt,grease and oil.

Repair Parts

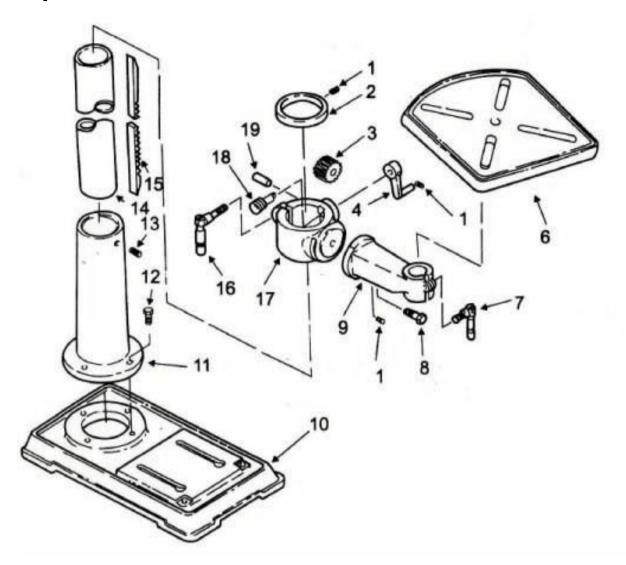


FIGURE1 FIGURE1 PARTS LIST

Key No.	Description
1	Screw-Hex Soc.Set
	M6*1.0-10
2	Collar-Rack
3	Gear-Helical
4	Crank
6	Table
7	Clamp-Table
8	Screw-Hex HD
	M16*20-35
9	Arm-Table w/Scale
10	Base

Key No.	Description
11	Support Column
12	Screw-Hex HD M10*1.5-40
13	Screw-Hex Soc.Set
	M10*1.5-12
14	Tube Column
15	Rack
16	Clamp-Column
17	Support Table w/Indicator
18	Worm-Elevation
19	Pin-Gear

Repair Parts

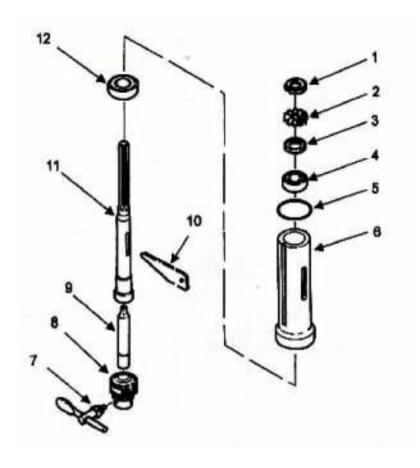


FIGURE2 FIGURE2 PARTS LIST

Key No.	Description
1	Nut-Lock
2	Ring-Locking
3	Washer
4	Bearing-Ball 17mm
5	Washer-Rubber
6	Tube-Quill
7	Key-Chuck
8	Chuck
9	Arbor
10	Key-Drift
11	Spindle
10	Bearing-Ball

Repair Parts

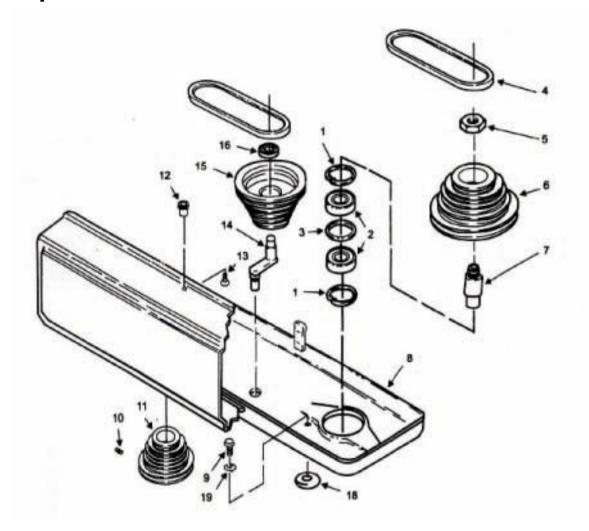


FIGURE3 FIGURE3 PARTS LIST

Key No.	Description
1	Ring-Retaining
2	Bearing-Ball 25mm
3	Spacer-Bearing
4	Belt-"V" M24
5	Nut-Pulley
6	Pulley-Spindle
7	Insert-Pulley
8	Guard-Pulley w/Labels
9	Screw-RD HD Washer
	M6*1.0-16

Key No.	Description
10	Screw-Set M10*1.5-12
11	Pulley-Motor
12	Knob
13	Screw-Pan HD M5*0.8-12
14	Pivot-Ldler
15	Pully-Center
16	Bearing-Ball 15mm
18	Washer Foam
19	Lock Washer Ext.M6

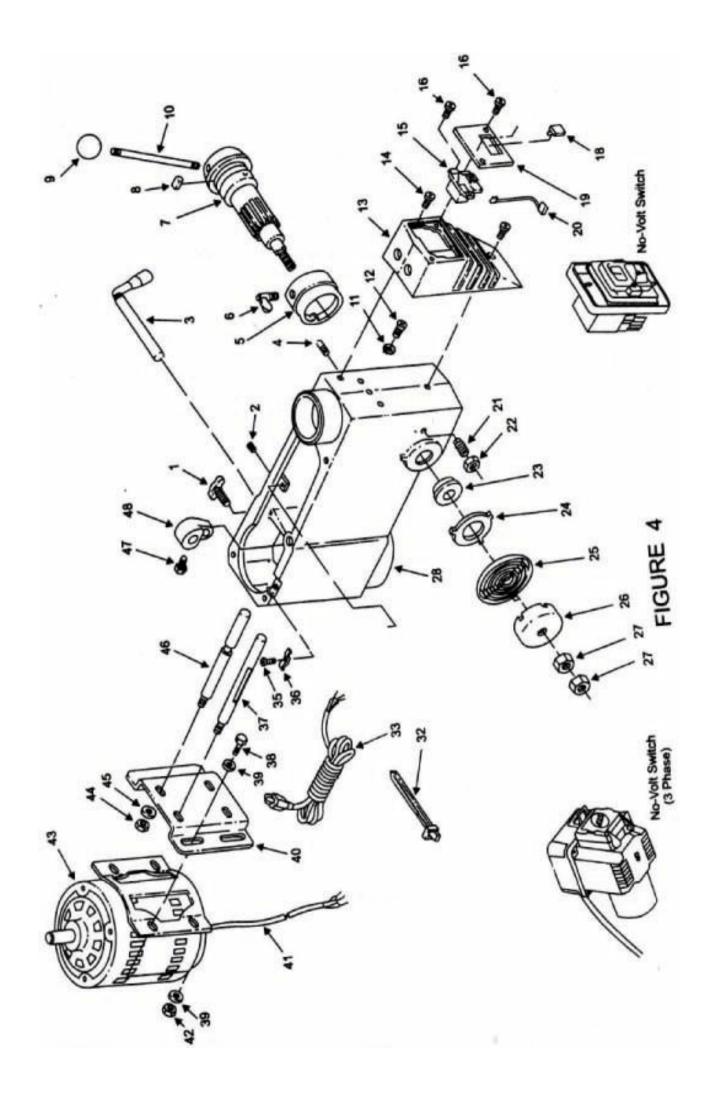


FIGURE4 PARTS LIST

Key	
No.	Description
1	knob-Motor Adjusting
2	Screw-Socket Set M10*1.5-12
3	Handle-Belt Tension
4	Pin-Stop
5	Ring-Depth Stop W/Scale
6	Lock-Depth Screw
7	Hub
8	Guide Scale
9	Knob
10	Rod
11	Lock-Washer-Ext M5
12	Screw-Pan HD M5*0.8-8
13	Box Switch
14	Screw-Pan HD M5*0.8-16
15	Switch-Locking
16	Screw-Pan HD M4.2*1.4-8
18	Key-Switch
19	Cover-Switch Plate
20	Lead-Asm 3
21	Screw-Set Special 10*1.5-27
22	Nut-Hex M10*1.5

Key	Description
No.	•
23	Seat-Spring
24	Retainer-Spring
25	Spring-Torsion
26	Cap-Spring
27	Nut-Hex M12*1.5-8
28	Head w/Pointer and Trim
32	Tie-Wire
33	Cord-Power w/Plug
36	Clamp-Cord
37	Support-Motor Bracket
38	Screw-Hex HD M6*1.0*12
39	Washer 8*16*1.6
40	Mount-Motor
41	Cord-Motor
42	Nut-Hex M8*1.25
43	Motor
44	Nut-Hex M12*1.75
45	Lockwasher 1/2
46	Support-Motor Bracket
47	Screw-Hex HD M8*1.25-16
48	Lever-Adjusting