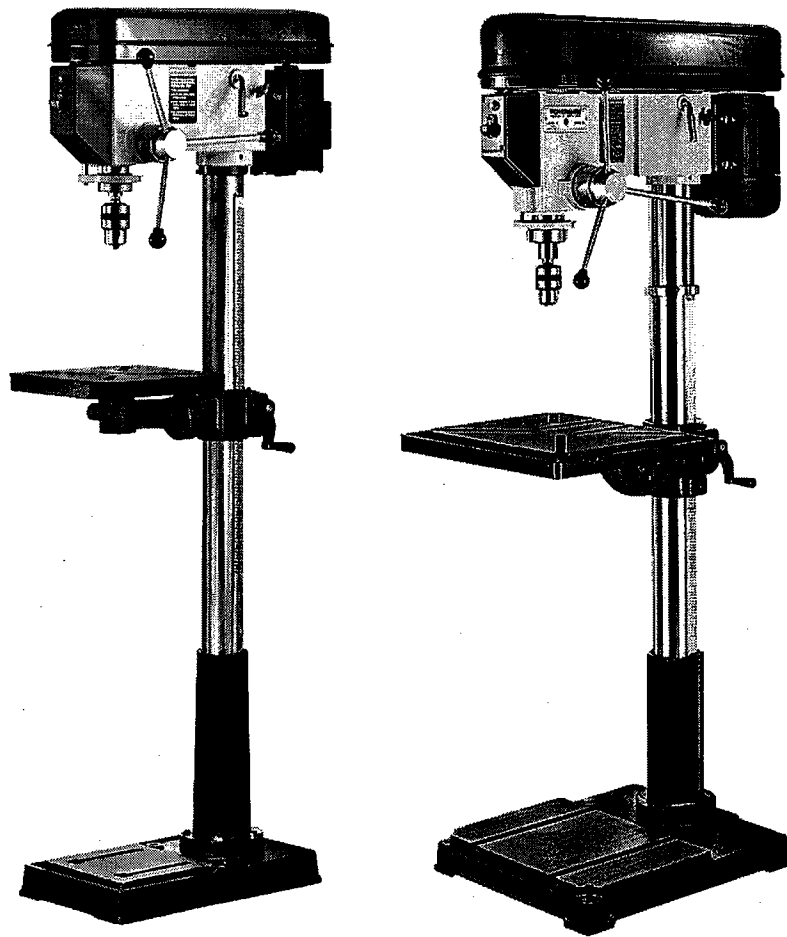


# DRILL PRESSES

Model 1170 & 2000

Instruction Manual & Parts List

M-0460243



# **POWERMATIC<sup>®</sup>**

(800) 274-6848  
[www.powermatic.com](http://www.powermatic.com)

This manual has been prepared for the owner and operators of a Powermatic Model 1170 or 2000 Drill Press. Its purpose, aside from machine operation, is to promote safety through the use of accepted correct operating and maintenance procedures. Completely read the safety and maintenance instructions before operating or servicing the machine. To obtain maximum life and efficiency from your drill press, and to aid in using the machine safely, read this manual thoroughly and follow all instructions carefully.

## **Warranty & Service**

The WMH Tool Group warrants every product it sells. If one of our tools needs service or repair, one of our Authorized Repair Stations located throughout the United States can give you quick service.

In most cases, any one of these WMH Tool Group Repair Stations can authorize warranty repair, assist you in obtaining parts, or perform routine maintenance and major repair on your JET, Powermatic, Performax, or Wilton tools.

For the name of an Authorized Repair Station in your area, please call 1-800-274-6848.

## **More Information**

Remember, the WMH Tool Group is consistently adding new products to the line. For complete, up-to-date product information, check with your local WMH Tool Group distributor.

## **WMH Tool Group Warranty**

The WMH Tool Group makes every effort to assure that its products meet high quality and durability standards and warrants to the original retail consumer/purchaser of our products that each product be free from defects in materials and workmanship as follow: **1 YEAR LIMITED WARRANTY ON ALL PRODUCTS UNLESS SPECIFIED OTHERWISE.** This Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, repair or alterations outside our facilities, or to a lack of maintenance.

**THE WMH TOOL GROUP LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD SPECIFIED ABOVE, FROM THE DATE THE PRODUCT WAS PURCHASED AT RETAIL. 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. THE WMH TOOL GROUP 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.**

To take advantage of this warranty, the product or part must be returned for examination, postage prepaid, to an Authorized Repair Station designated by our office. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will either repair or replace the product, or refund the purchase price if we cannot readily and quickly provide a repair or replacement, if you are willing to accept a refund. We will return repaired product or replacement at WMH's expense, but if it is determined there is no defect, or that the defect resulted from causes not within the scope of WMH's warranty, then the user must bear the cost of storing and returning the product. This warranty gives you specific legal rights; you may also have other rights which vary from state to state.

The WMH Tool Group sells through distributors only. Members of the WMH Tool Group reserve the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever.

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## SAFETY: General Rules

As with all power tools there is a certain amount of hazard involved with the operation and use of the tool. Use the tool with the respect and caution demanded where safety precautions are concerned. This will considerably lessen the possibility of personal injury. When normal safety precautions are overlooked or completely ignored, personal injury to the operator can result.

1. **KNOW YOUR TOOL.** Read the owner's manual carefully. Learn the tool's applications and limitations, as well as the specific potential hazards peculiar to it.
2. **KEEP GUARDS IN PLACE** and maintained in working order.
3. **GROUND ALL TOOLS.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to accommodate a two-prong receptacle, the adapter plug must be attached to a known ground. Never remove the third prong.
4. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
5. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
6. **AVOID DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
7. **KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept a safe distance from work area.
8. **MAKE WORKSHOP CHILDPROOF** - with padlocks, master switches, or by removing starter keys.
9. **DON'T FORCE TOOL.** It will do the job better and be safer at the rate for which it was designed.
10. **USE RIGHT TOOL.** Don't force tool or attachment to do a job it was not designed for.
11. **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, or jewelry that can get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
12. **USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty.
13. **SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.
14. **DON'T OVERREACH.** Keep your proper footing and balance at all times.
15. **MAINTAIN TOOLS IN TOP CONDITION.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
16. **DISCONNECT TOOLS** before servicing and when changing accessories such as chisel and bit.
17. **USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause hazards.
18. **AVOID ACCIDENTAL STARTING.** Make sure switch is in "OFF" position before plugging in cord.
19. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
20. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure 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.
21. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.
22. **DRUGS, ALCOHOL, MEDICATION.** Do not operate tool while under the influence of drugs, alcohol, or any medication.

## SAFETY: Specific Rules

1. **Read, understand and follow** the safety and operating instructions found in this manual. Know the limitations and hazards associated with a drill press. A safety rules decal is installed on this machine to serve as a reminder of basic safety practice.
2. **Avoid Accidental Starting:** Make certain the motor switch is in the "OFF" position before connecting power to the machine.
3. **Grounding the Drill Press:** Make certain that the machine frame is electrically grounded and that a grounding lead is included in the incoming electrical service. In cases where a cord and plug are used, make certain that the grounding lug connects to a suitable ground. Follow the grounding procedure indicated by the National Electric Code.
4. **Misuse:** Do not use the Drill Press for other than its intended use. If used for other purposes, Powermatic disclaims any real or implied warranty and holds itself harmless for any injury that may result from the use.
5. **Job Completion:** If the operator leaves the machine area for any reason, the drill press should be turned off and the spindle come to a complete stop before he departs. In addition, if the operation is complete, he should clean the machine and work area. Never clean the machine with power on and Never clean chips with the hands; use a brush or chip rake.
6. **Guards:** Keep all machine guards in place at all times when the machine is in use. **DO NOT OPERATE THE MACHINE WITH THE GUARD OFF.**
7. **Maintain Tools in Top Condition:** Keep tools sharp and clean for safe and best performance. Dull tools can increase the feed force required and can result in burning the stock or seizing up, causing the work to be pulled free from its holding device. Dull or improperly sharpened drills will not produce a straight hole.
8. **Use the Proper Speed and Feed:** A table is provided on page 22 as a guide in selecting the correct speed and feed rate for a variety of materials. For materials not shown, consult the material supplier for correct speed and feed rate. Make sure power is off and the spindle has come to complete stop before opening the access door to change speeds.
9. **Replacement Parts:** Use only Powermatic or factory authorized replacement parts and accessories; otherwise, the Drill Press warranty and guarantee will be null and void.
10. **Never Drill Freehand:** Always block or clamp the workpiece. A drill bit or tap can seize up causing the workpiece, jig, or fixture to rotate with the spindle and can cause serious injury.
11. **Remove Key Chucks:** When a chuck is used, remove it immediately after locking or un-locking a tool in the chuck. If it is not removed, starting the spindle can cause it to be thrown off the chuck and could result in serious injury.
12. **Hand Safety:** Keep hands away from the spindle when the machine is under power. Never clear chips when the spindle is under power and never use the hands to clear chips; use a brush or chip rake. Chips are razor sharp and can cause serious injury.
13. **Additional Health Hazards.** Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains 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 and cement and other masonry products.
  - \* Arsenic and chromium from chemically-treated lumber.Your risk from these exposures 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 those dust masks that are specifically designed to filter out microscopic particles.

 **SAFETY: Decal Instruction**

## **WARNING**

**FOR YOUR OWN SAFETY READ INSTRUCTION MANUAL BEFORE OPERATING DRILL PRESS**

1. Wear eye protection.
2. Do not wear gloves, necktie, or loose clothing.
3. Clamp workpiece or brace against column to prevent rotation.
4. Use recommended speed for drill accessory, and workpiece material.

## **SAFETY RULES**

**CAREFULLY READ INSTRUCTION MANUAL BEFORE OPERATING MACHINE.**

**DO NOT OPERATE WITHOUT ALL GUARDS AND COVERS IN POSITION. BE SURE MACHINE IS ELECTRICALLY GROUNDED.**

**REMOVE OR FASTEN LOOSE ARTICLES OF CLOTHING SUCH AS NECKTIES, ETC. CONFINE HAIR.**

**REMOVE JEWELRY SUCH AS FINGER RINGS, WATCHES, BRACELETS, ETC.**

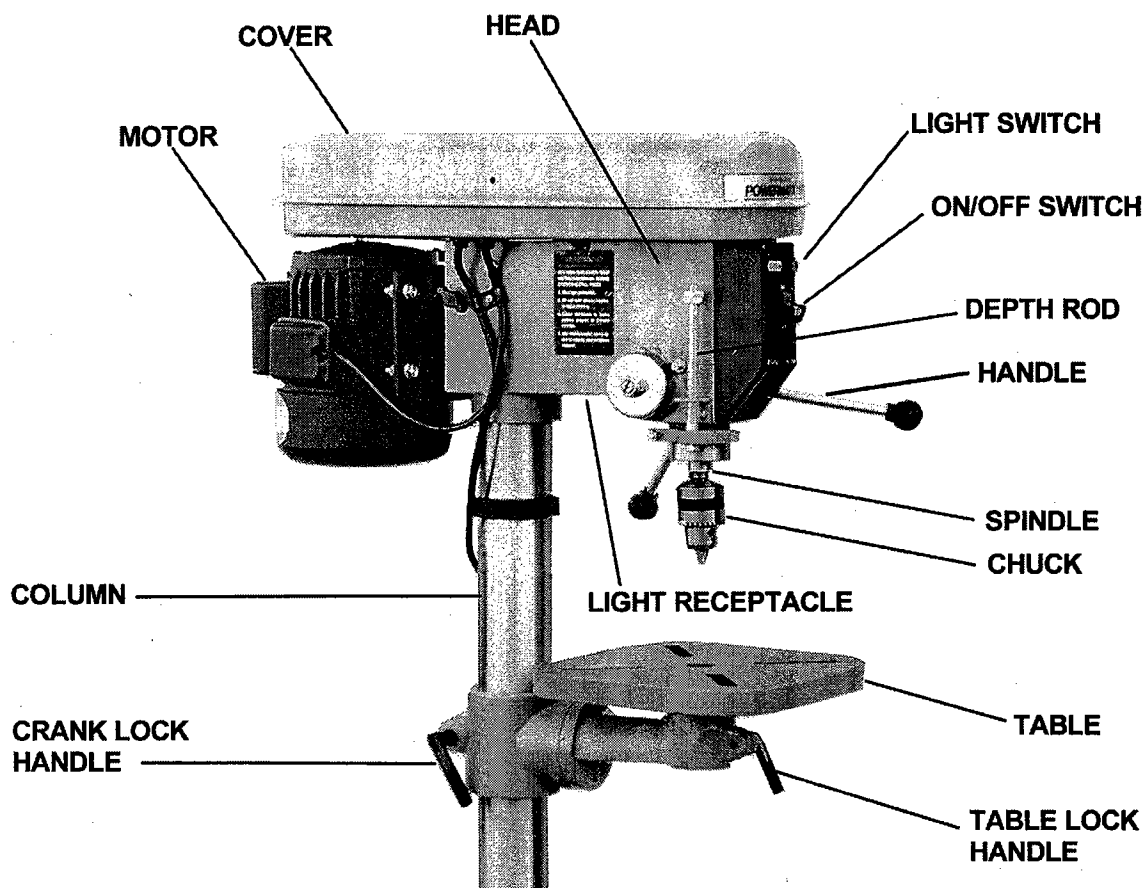
**USE SAFETY FACE SHIELD, GOGGLES OR GLASSES TO PROTECT EYES AND OTHER PERSONAL SAFETY EQUIPMENT AS REQUIRED.**

**STOP MACHINE BEFORE MAKING ADJUSTMENTS OR CLEANING CHIPS FROM WORK AREA.**

**KEEP THE FLOOR AROUND THE MACHINE CLEAN AND FREE FROM SCRAPS, SAWDUST, OIL OR GREASE TO MINIMIZE THE DANGER OF SLIPPING.**

**TO AVOID SERIOUS INJURY, SECURELY CLAMP OR BLOCK WORK PIECE, JIG, OR FIXTURE TO PREVENT THEIR ROTATION SHOULD DRILL SIEZE-UP OCCUR.**

# CONTROL LOCATIONS Model 1170 & 2000



## SPECIFICATIONS

### 1170

Spindle travel .....	3-1/4"
Quill diameter .....	2"
Column outside diameter .....	3-1/8"
Column wall thickness .....	1/8"
Column length floor model .....	51"
Table size .....	12" x 12"
Base size .....	12" x 19-3/4"
Chuck to column capacity .....	8-1/2"
Spindle speeds .....	16
RPM .....	190-3500
Motor .....	1 HP, 1 Ph, 115V
Switch .....	with safety key
Weight, net .....	171 lbs.
Weight, gross .....	180 lbs.

### 2000

Spindle travel .....	4-1/2"
Quill diameter .....	2-3/8"
Column outside diameter .....	3-5/8"
Column wall thickness .....	1/8"
Column length floor model .....	47-1/4"
Table size .....	18-1/2" x 16-1/8"
Base size .....	18-3/4" x 22-1/2"
Chuck to column capacity .....	11"
Spindle speeds .....	12
RPM .....	130-2770
Motor .....	1-1/2 HP, 1 Ph
Switch .....	with safety key

## RECEIVING THE DRILL PRESS

Remove drill press and accessories from shipping container and check for damage. Any damage or missing parts should be reported to your distributor immediately. Before proceeding with assembly, read your maintenance manual thoroughly. Familiarize yourself with correct assembly, set-up, maintenance and safety procedures.

## ASSEMBLY AND INSTALLATION

(Figure 1)

1. Place the base on a flat floor and screw the column (H), with bracket attached, to the base (A).
2. Attach the head (C) to the column (H), and tighten the headless set screw (D) with Allen wrench provided.
3. Attach crank (J) to the worm gear and secure with the short hex. head bolt.
4. Attach assembled handle (E and F) to the handle body (G).

When the assembly of your drill press is complete it should be washed down with kerosene followed by an application of lubricating oil.

## INSTALLATION OF DRILL PRESS

Install your drill press in an area that is dry, flat, and has a sturdy floor or surface.

## GROUNDING INSTRUCTIONS

### 1. All grounded, cord connected tools:

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 connector.

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

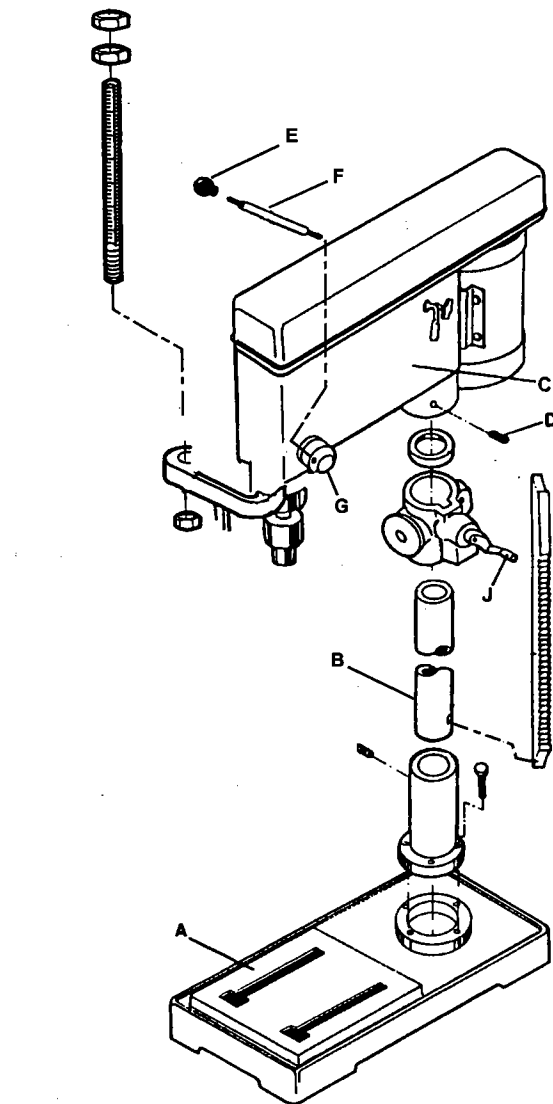


FIGURE 1

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.

### 2. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating less than 150 volts:

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in sketch A, Figure 2. The tool has a grounding plug that looks like the plug illustrated in sketch A.

A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown

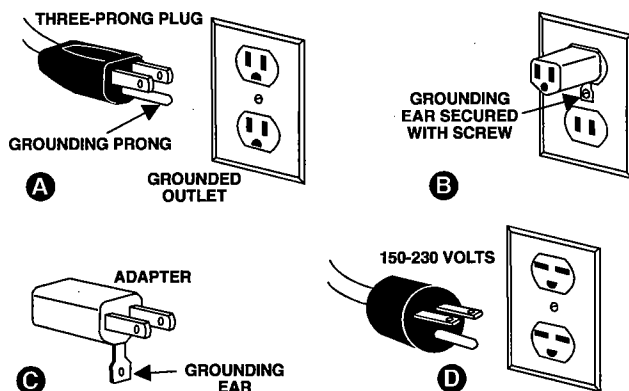


in sketch B if a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

**3. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating between 150-230 volts, inclusive:**

This cord is intended for use on a circuit that has an outlet that looks like the one illustrated in sketch D. The tool has a grounding plug that looks like the plug illustrated in sketch D.

Make sure the tool is connected to an outlet having the same configuration as the plug. No adapter is available or should be used with this tool. If the tool must be reconnected for use on a different type of electric circuit, the reconnection should be made by a qualified service personnel and after reconnection, the tool should comply with all local codes and ordinances.



**FIGURE 2**

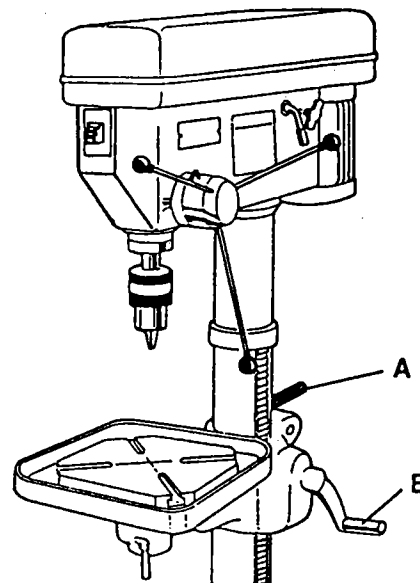
**DRILL PRESS ADJUSTMENTS**

**Power "ON"**

1. Plug the electric socket to a matching outlet (see grounding instructions). **DO NOT TURN MACHINE "ON"**.
2. Check to make sure the belt guard is down.
3. Follow the instructions on page 12 for correct chuck installation.
4. When ready to press the "ON" switch be aware that the shaft will rotate freely.
5. With the motor switch "ON" check to see if the drill press runs without vibration or shaking.
6. Make sure the table bracket moves smoothly up and down.
7. Make sure the spindle shaft moves smoothly.

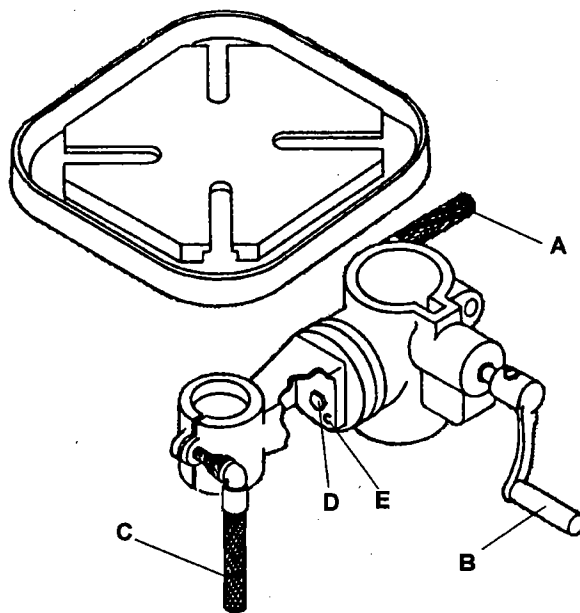
**To Adjust the Table Up or Down:**

1. Loosen the column lock handle (A), Figure 3 and Figure 4.



**FIGURE 3**

2. Turn crank handle (B) to desired height.
3. Retighten column lock handle (A) before attempting to drill.



**FIGURE 4**

**To Swing Table 360 Degrees:**

1. Loosen column lock handle (A), Figure 4.
2. Swing (adjust) table to desired position.
3. Retighten column lock handle (A).

For long stock, swing table 180 degrees and use the base as a table.

**To Rotate Table 360 Degrees:**

1. Loosen table lock handle (C), Figure 4.
2. Rotate table to desired position.
3. Retighten table lock handle (C).

### To Tilt Table:

1. Loosen the pivot bolt (D), Figure 4.
2. Remove the small locator pin (E) by tightening the nut until the pin slips out. (Be sure to store the pin in a convenient location).
3. Tilt table to desired angle up to 45 degrees.
4. Retighten pivot bolt.

NOTE: The 2000 Drill Press does not have a locator pin but has two pivot bolts.

**IMPORTANT: REINSERT THE LOCATOR PIN WHEN RETURNING THE TABLE TO ZERO DEGREES.**

### DEPTH STOP ADJUSTMENT

1. As shown in Figure 5, set bottom side of nut (A) even with the desired depth setting.
2. Tighten nut (B) against (A) to secure in position.
3. Depth stop is now set and will provide repetitive holes of equal depth.

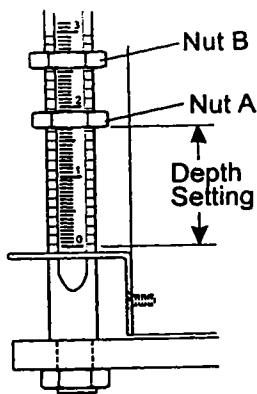


FIGURE 5

### INSTALLING CHUCK

1. Slide arbor into quill assembly, flat end goes in first as shown in Figure 6.
2. Chuck slides onto tapered end of arbor. Lower against table or piece of scrap material to secure chuck.

### To Remove Chuck and Arbor:

1. Disconnect power from drill press.
2. Lower quill assembly using handles.
3. Insert tool, shown in Figure 6, into quill assembly and all the way through quill assembly. You may have to rotate quill to be able to get tool all the way through.
4. Raise quill assembly - arbor and chuck should fall out. Hold onto chuck to prevent damage.

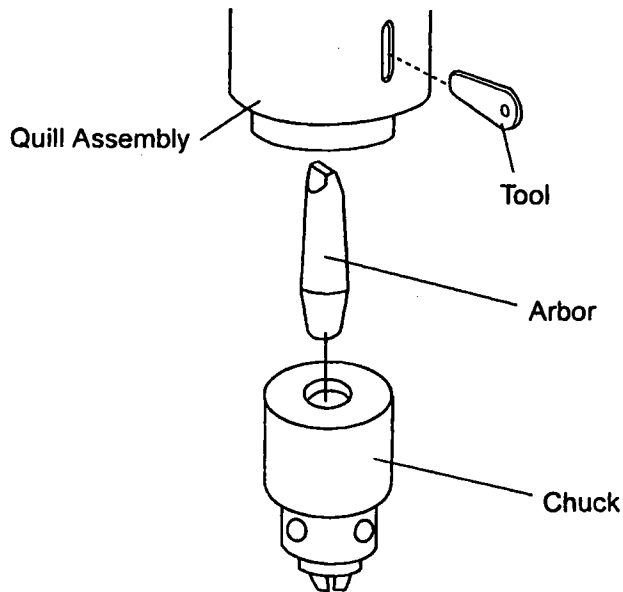


FIGURE 6

### CHANGING SPEEDS

Speed changes are made **ONLY** when the machine is **NOT** running.

1. Disconnect the machine from its power source.
2. Loosen the two slide bar bolts (A), Figure 7, located on the right and left hand side of the head.

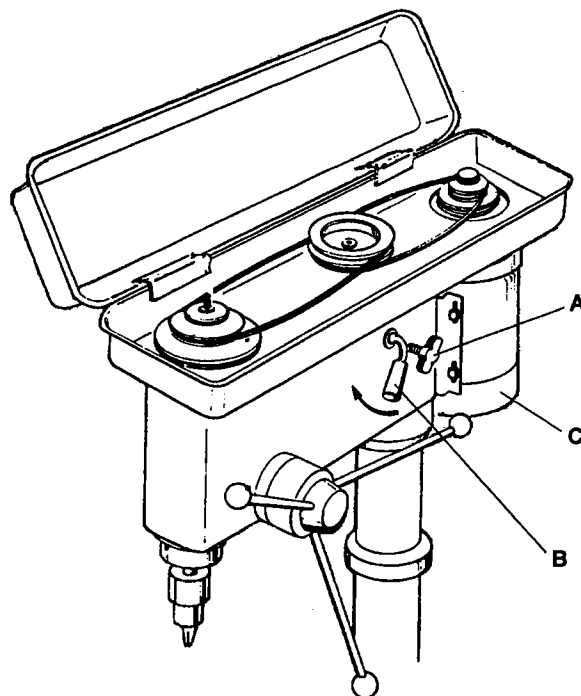


FIGURE 7

3. Push the slide motor handle (B) as shown in Figure 7 to reposition the motor (C) and loosen the belts.

4. Relocate belt to desired pulley for new spindle speed.
5. Slide motor back toward rear of drill press by pushing slide motor handle (B) down.
6. Tighten both slide bar bolts (A) and check belt tension.

## OPERATING THE DRILL PRESS

Before attempting regular work, get the feel of the drill press by practicing on scrap material.

**NOTE:** There are several factors which determine the best speed to use in any drill press operation, such as: kind of material being worked, size of hole, type of drill, and quality of cut desired.

**RULE OF THUMB:** The smaller the drill the greater the required RPMs. For soft materials, the speed should be higher than speeds used for hard metals.

**DRILLING IN METAL:** Always use clamps to hold down the workpiece. The workpiece should NEVER be held in the bare hand. The lips of the drill bit could seize the work at any time, especially when breaking through the stock, resulting in a broken drill bit and possible serious injury to the operator. In addition, any tilting, twisting, or shifting results not only in a rough hole but also increases drill breakage. When drilling flat work, place the workpiece on a wooden base and clamp it down firmly against the table as shown in Figure 8.

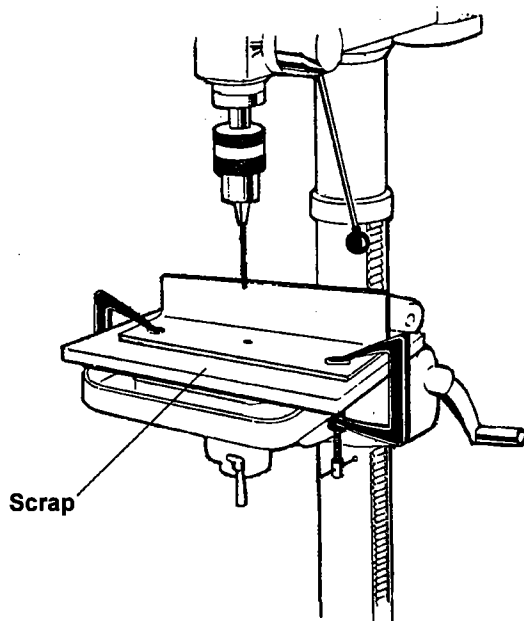


FIGURE 8

**DRILLING IN WOOD:** Although twist drills are intended for metal drilling, they can also be used for boring holes in wood. However, for working in wood, machine spur bits are generally preferred.

Spur bits cut a square bottom hole and are designed to remove wood chips.

**⚠ DANGER:** DO NOT USE HAND BITS WHICH HAVE A SCREW TIP. AT DRILL PRESS SPEEDS, THESE BITS ROTATE INTO THE WORKPIECE SO RAPIDLY THEY LIFT THE WORK OFF THE TABLE AND SWIRL IT.

## MAINTENANCE

After each operation the drill press should be completely cleaned and lubrication applied to all sliding and moving parts.

The ball bearings in the quill and V-belt pulley are grease sealed for life.

Pull the quill down to maximum depth and oil moderately once every 3 months.

Lightly oil slide bars every 2 months.

If cranking becomes difficult, grease the column bracket.

## TROUBLE SHOOTING TIPS

**⚠ WARNING:** FOR YOUR SAFETY, TURN SWITCH "OFF" AND ALWAYS REMOVE PLUG FROM POWER SOURCE OUTLET BEFORE TROUBLE SHOOTING.

PROBLEM	CAUSE	SOLUTION
Noisy operation.	<ol style="list-style-type: none"> <li>1. Incorrect belt tension.</li> <li>2. Loose spindle pulley or motor pulley.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust tension.</li> <li>2. Tighten set screws in pulleys.</li> </ol>
Bit burns or smokes.	<ol style="list-style-type: none"> <li>1. Incorrect speed.</li> <li>2. Chips not coming out of hole.</li> <li>3. Dull bit.</li> <li>4. Feed too slow.</li> <li>5. Not lubricated.</li> <li>6. Bit running backwards.</li> </ol>	<ol style="list-style-type: none"> <li>1. Change speed.</li> <li>2. Retract bit frequently to clear chips.</li> <li>3. Sharpen or replace bit.</li> <li>4. Feed fast enough... allow drill to cut.</li> <li>5. Lubricate bit.</li> <li>6. Check motor rotation.</li> </ol>
Excessive drill runout or wobble.	<ol style="list-style-type: none"> <li>1. Bent bit.</li> <li>2. Worn spindle bearings.</li> <li>3. Bit not properly installed in chuck.</li> <li>4. Chuck not properly installed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Use a straight bit.</li> <li>2. Replace bearings.</li> <li>3. Install bit properly.</li> <li>4. Install chuck properly.</li> </ol>
Drill binds in workpiece.	<ol style="list-style-type: none"> <li>1. Workpiece pinching bit or excessive feed pressure.</li> <li>2. Improper belt tension.</li> </ol>	<ol style="list-style-type: none"> <li>1. Support or clamp workpiece.</li> <li>2. Adjust tension.</li> </ol>
Workpiece torn loose from hand.	<ol style="list-style-type: none"> <li>1. Not supported or clamped properly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Support or clamp workpiece.</li> </ol>

## DRILLING FEEDS - SPEED - HORSEPOWER REQUIRED

SIZE OF DRILL	FEED PER REVOLUTION	BRONZE BRASS	COPPER	ALUMINUM	MALLEABLE IRON	CAST IRON			STEEL CASTING
						MACHINED SURFACE	SCALE SURFACE	DEEP HOLES	
FT. PER MIN.		250 FT.	150 FT.	300 FT.	80 FT.	100 FT.	80 FT.	80 FT.	40 FT.
INCHES	INCHES	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM
1/16	0.003	15279	9167	18320	4889	6111	4889	4889	2445
3/32	0.0035	10186	6111	12212	3262	4077	3262	3262	1628
1/8	0.004	7639	4583	9160	2445	3056	2445	2445	1222
5/32	0.0045	6111	3667	7328	1956	2445	1956	1956	976
3/16	0.005	5093	3056	6106	1630	2037	1630	1630	815
7/32	0.0055	4365	2619	5234	1398	1747	1398	1398	698
1/4	0.006	3820	2292	4575	1222	1528	1222	1222	611
9/32	0.0065	3395	2037	4071	1087	1359	1087	1087	542
5/16	0.007	3056	1833	3660	978	1222	978	978	489
11/32	0.0075	2778	1667	3330	889	1111	889	889	444
3/8	0.008	2546	1528	3050	815	1019	815	815	407
13/32	0.0085	2350	1410	2818	752	940	752	752	376
7/16	0.009	2183	1310	2614	698	873	698	698	349
15/32	0.0095	2037	1222	2442	652	815	652	652	326
1/2	0.01	1910	1146	2287	611	764	611	611	306
17/32	0.0102	1798	1079	2157	575	719	575	575	288
9/16	0.0105	1698	1019	2035	543	679	543	543	271
19/32	0.0107	1608	965	1930	515	643	515	515	257
5/8	0.011	1528	917	1830	489	611	489	489	244

### OPTIONAL ACCESSORIES (Model 1170)

6285525	Mortising Attachment.
6285526	1/4" Chisel & Bit Set.
6285527	5/16" Chisel & Bit Set.
6285528	3/8" Chisel & Bit Set.
6285529	1/2" Chisel & Bit Set.
6856009	4" Drill Press Vise.

## PARTS LIST: 1170 Drill Press

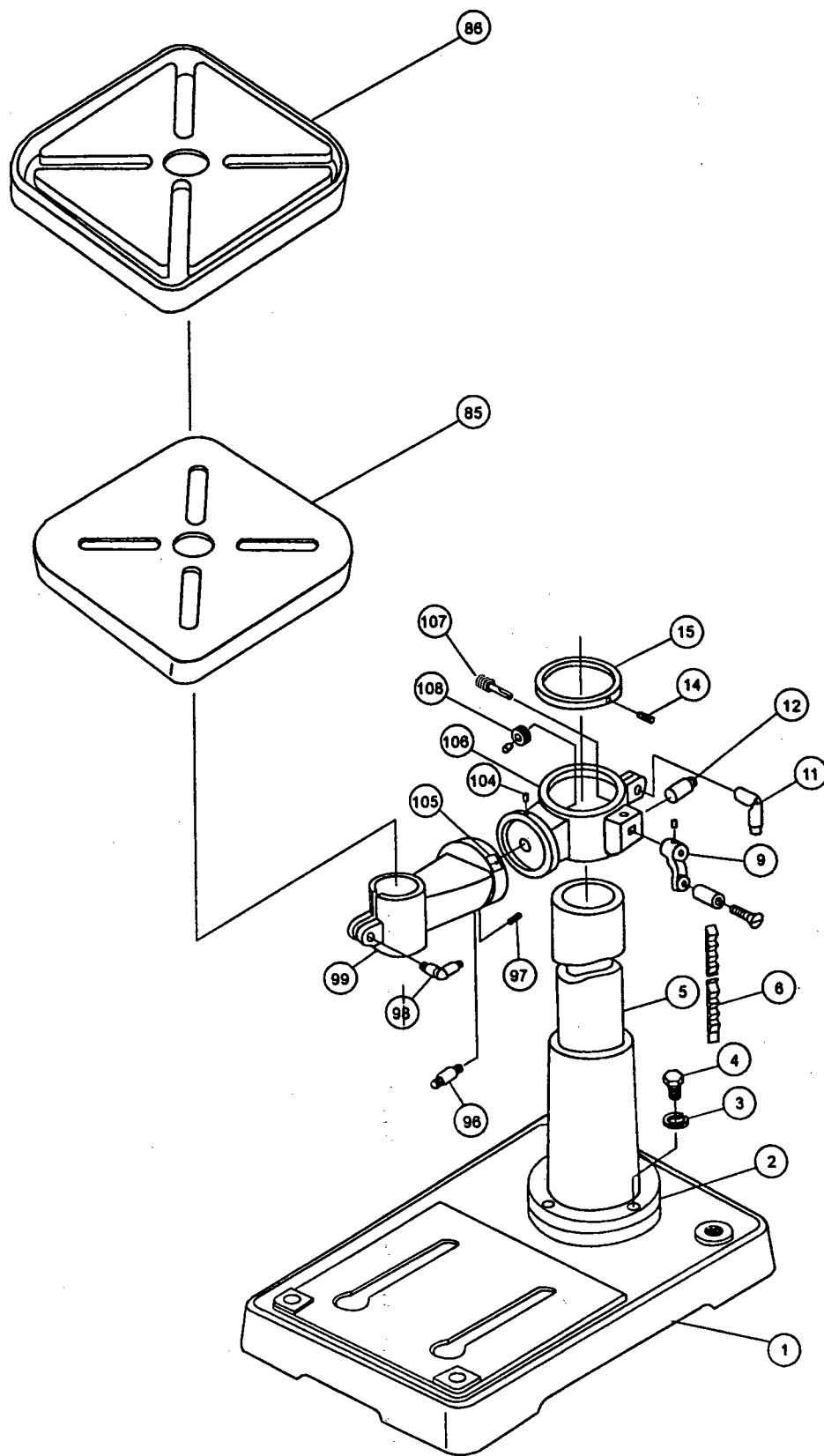
NO.	PART NO.	DESCRIPTION
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1	6290700	Base
2	6290701	Flange
3	6290702	Washer, Spring
4	6290703	Screw
5	6290704	Column
6	6290705	Rack, Gear
9	6290706	Sleeve & Rod Assy.
11	6290707	Bolt, Clamp
12	6290708	Shaft, Gear
14	6290709	Screw, Set
15	6290710	Collar, Rack
85	6290766	Table, Woodworking

NO.	PART NO.	DESCRIPTION
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86	6290767	Table, Metalworking
96	6290775	Stud
97	6290776	Screw, Set
98	6290777	Handle, Table Lock
99	6290778	Bracket, Table
104	6290783	Rivet
105	6290784	Pointer
106	6290785	Bracket, Table
107	6290786	Worm, Elevating
108	6290787	Gear, Elevating
	6290801	Hardware Kit (not shown)

# EXPLODED VIEW: 1170 Drill Press

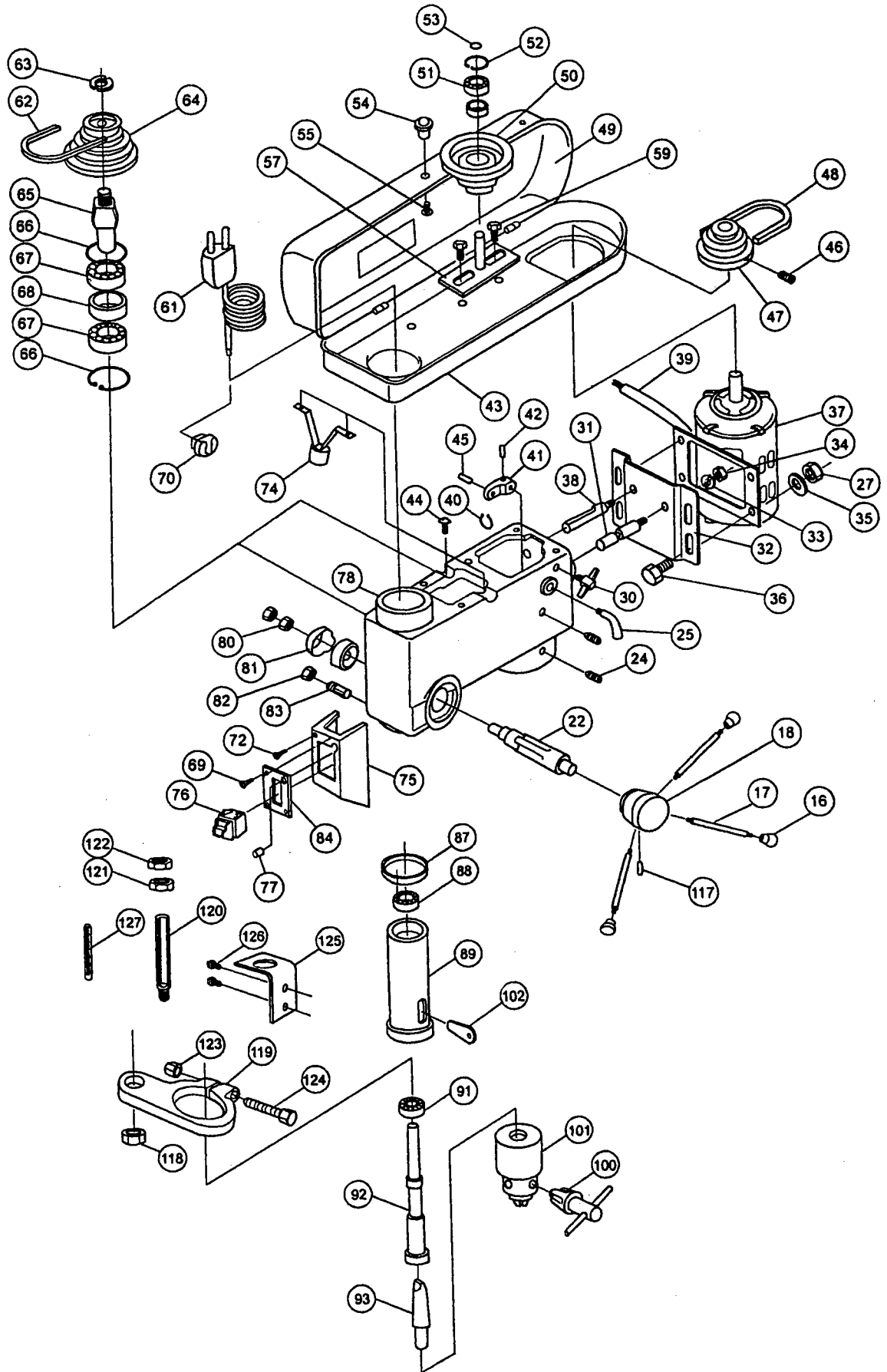


## PARTS LIST: 1170 Drill Press

NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION
16	6290711	Knob	65	6290749	Insert, Pulley
17	6290712	Handle	66	6290750	Ring, Retaining
18	6290713	Base, Handle	67	6290751	Bearing, Ball
22	6290714	Pinion, Feed	68	6290752	Spacer, Bearing
24	6290715	Screw, Set	69	6290753	Screw, Pan Hd.
25	6290716	Lever, Shaft Assy.	70	6290754	Relief, Strain
27	6290932	Nut	72	6290755	Screw, Pan Hd.
30	6290718	Screw, Thumb	74	6290756	Bracket, Light Socket
31	6290719	Bracket, Motor Support	75	6290757	Box, Switch
32	6290720	Mount, Motor	76	6290758	Switch, On/Off
33	6290721	Washer, Spring	77	6290759	Pushbutton, Light Switch
34	6290722	Nut	78	6290760	Head
36	6290723	Screw, Hex. Hd.	80	6290761	Nut, Hex.
37	6290724	Motor, 1 HP	81	6290762	Spring, Tension Assy.
38	6290725	Bracket, Motor Support	82	6290763	Nut, Hex.
39	6290726	Cord, Electrical	83	6290764	Screw, Set Slotted
40	6290727	Ring, Retaining	84	6290765	Plate, Switch
41	6290728	Lever, Adjusting	87	6290768	Washer, Rubber
42	6290729	Pin, Lock	88	6290769	Bearing, Ball
43	6290730	Guard Cover, Lower	89	6290770	Quill
44	6290731	Screw, Pan Hd.	91	6290772	Bearing, Ball
45	6290732	Pin	92	6290773	Spindle
46	6290733	Screw, Set	93	6290774	Arbor, #2MT-Jacobs #3
47	6290734	Pulley, Motor	100	6290779	Key, Chuck
48	6290735	"V" Belt - 28"	101	6291835	Chuck, 5/8
49	6290736	Guard Cover, Upper	102	6290781	Pin
50	6290737	Pulley, Center	117	6290790	Pin, Lock
51	6290738	Bearing, Ball	118	6290791	Nut, Lock
52	6290739	Ring, Retaining	119	6290792	Clamping Seat Depth Stop
53	6290740	Ring, Retaining	120	6290793	Depth Stop, Post
54	6290741	Knob	121	6290794	Nut, Lock
55	6290742	Screw, Pan Hd.	122	6290795	Nut, Lock
57	6290743	Bracket w/ Shaft	123	6290796	Nut
59	6290744	Screw, Pan Hd.	124	6290797	Screw
61	6290745	Cord w/ Plug	125	6290798	Bracket, Indicator
62	6290746	"V" Belt	126	6290799	Screw, Hex. Hd.
63	6290747	Nut	127	6290800	Scale
64	6290748	Pulley, Spindle			



# EXPLODED VIEW: 1170 Drill Press



## PARTS LIST: 2000 Drill Press

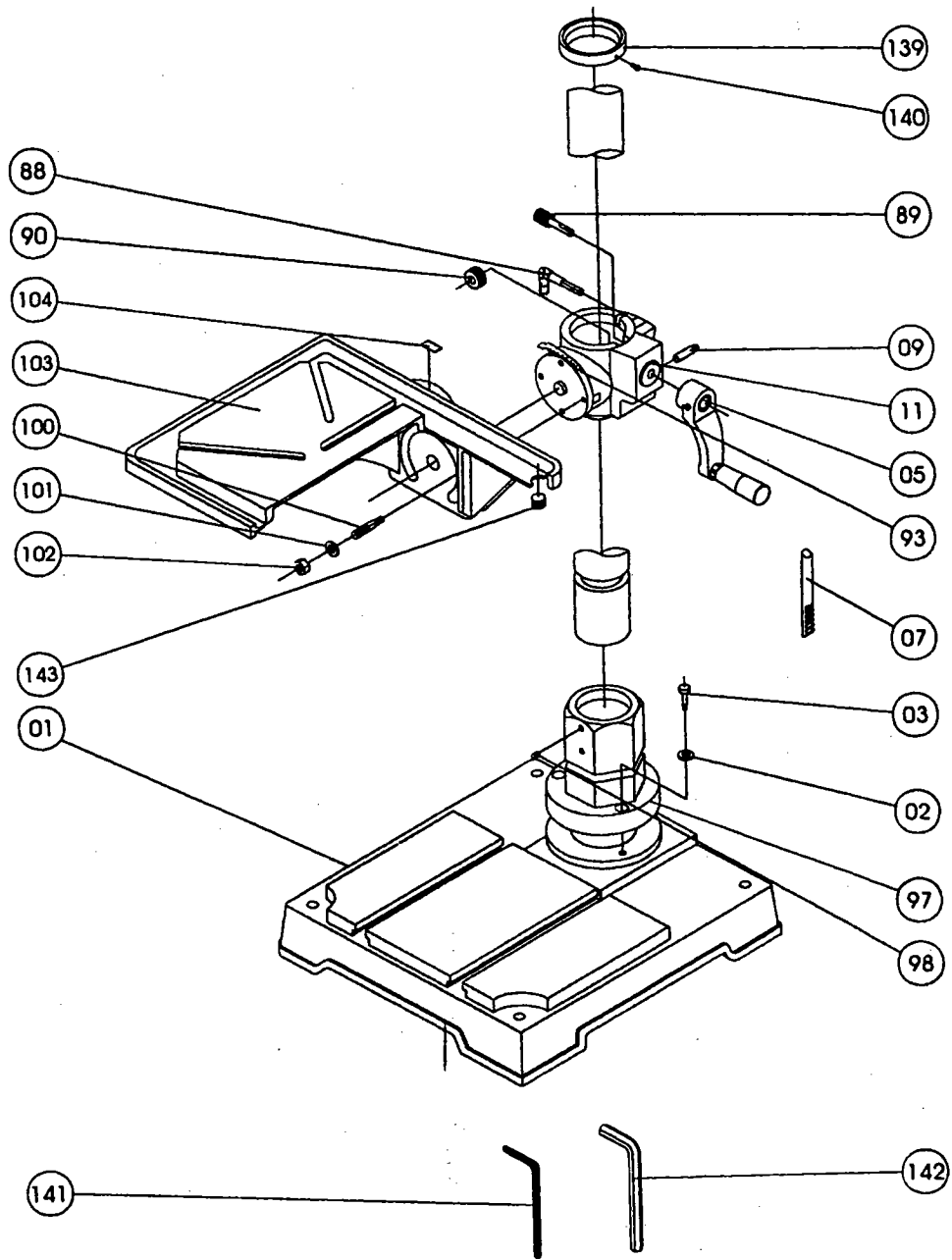
### NO. PART NO. DESCRIPTION

1	6291750	Base
2	6291751	Washer, Spring
3	6291752	Bolt, Hex. Hd.
5	6291754	Sleeve, Handle
7	6291756	Rack
9	6291758	Pin, Gear
11	6291759	Bracket, Table
88	6291819	Handle, Tbl. Spt.
89	6291820	Worm, Elevating
90	6291821	Gear, Helical
93	6291824	Scale, Tilt
97	6291828	Flange

### NO. PART NO. DESCRIPTION

98	6291829	Screw, Soc. Set
100	6291830	Stud, Arm Mtg.
101	6291831	Washer
102	6291832	Nut, Hex.
103	6291833	Table
104	6291834	Zero Scale
139	6290807	Collar, Rack
140	6290808	Screw, Set
141	6290809	Allen Wrenches (3mm)
142	6290810	Allen Wrenches (5mm)
143	6290811	Screw
	6291760	Hardware Kit (not shown)

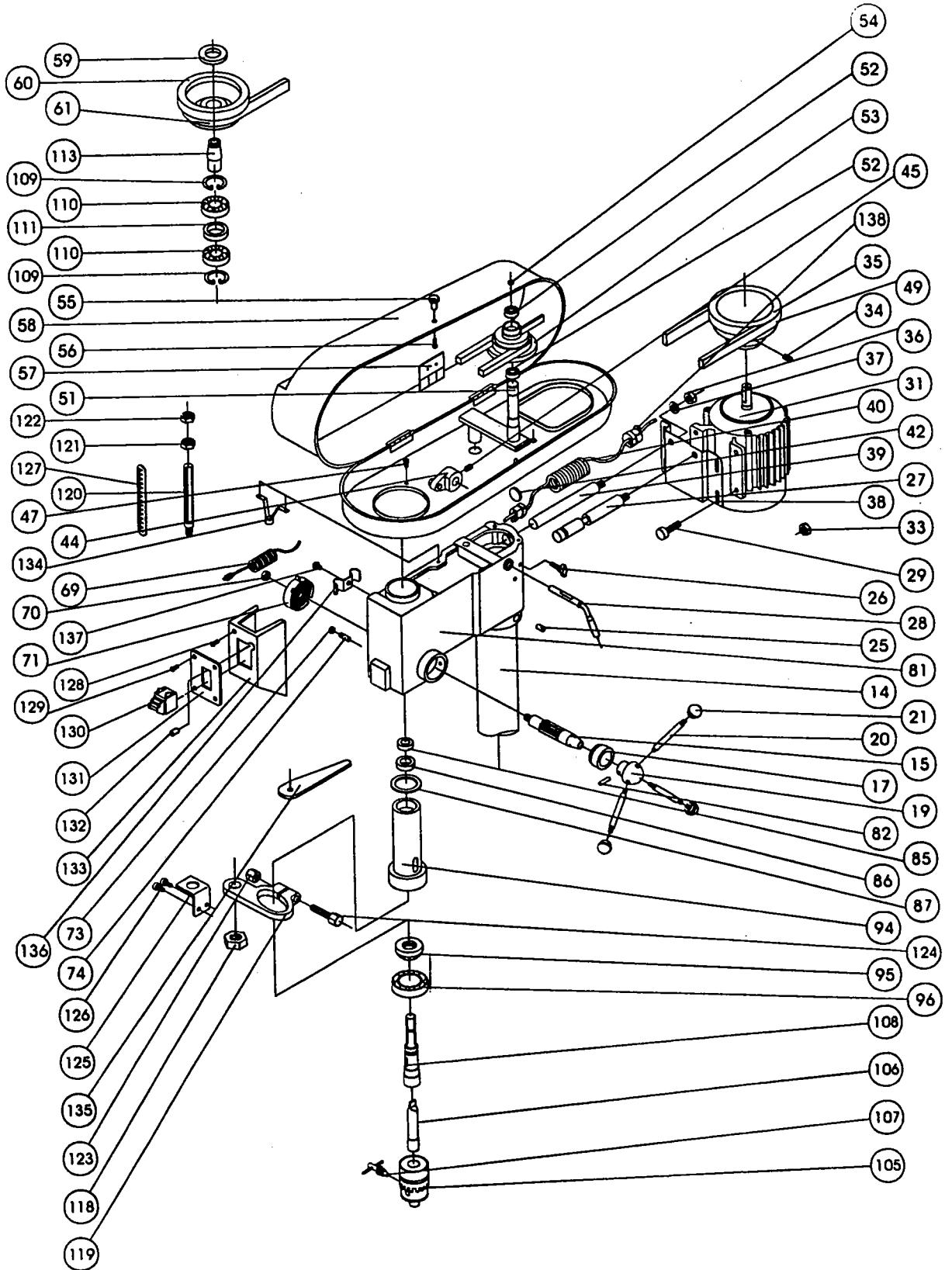
# EXPLODED VIEW: 2000 Drill Press



## PARTS LIST: 2000 Drill Press

NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION
14	6291762	Column, Lower	74	6291811	Screw, Set
15	6291763	Shaft, Pinion	81	6291813	Head
17	6291765	Bush, Pinion Shaft	82	6291814	Pin
19	6291767	Head, Pinion Shaft	85	6291816	Nut, Spindle
20	6291768	Handle, Feeding	86	6291817	Bearing
21	6291769	Knob	87	6291818	Basket, Quill
25	6291772	Screw, Soc. Set	94	6291825	Quill
26	6291773	Screw, Wing	95	6291826	Bearing, Thrust
27	6291774	Support, Motor Brkt.	96	6291827	Bearing
28	6291775	Shaft, Lever	105	6291835	Chuck
29	6291776	Screw, Hex. Hd.	106	6291836	Arbor
31	6291778	Motor	107	6291837	Key, Chuck
33	6291779	Nut, Hex.	108	6291838	Spindle
34	6291780	Screw, Soc. Set	109	6291839	Ring, Retaining
35	6291781	Pulley, Motor	110	6291827	Bearing
36	6291782	Nut, Hex.	111	6291841	Spacer, Bearing
37	6291783	Washer, Spring	113	6291843	Insert, Pulley
38	6291784	Plate, Motor	118	6290791	Nut, Lock
39	6291785	Support, Motor Brkt.	119	6291761	Depth Stop, Clamping Seat
40	6291786	Cord, Motor	120	6290793	Depth Stop, Post
42	6291787	Ring, Retaining	121	6290794	Nut, Lock
44	6291788	Lever, Adjusting	122	6290795	Nut, Lock
45	6291789	Pin, Taper	123	6290796	Nut
47	6291791	Screw, Pan Hd.	124	6290797	Screw
49	6291793	V-Belt	125	6290798	Bracket, Indicator
51	6291795	Shaft, Mid Pulley	126	6290799	Screw, Hex. Hd.
52	6286706	Bearing	127	6290800	Scale
53	6291797	Pulley, Middle	128	6290976	Screw, Pan Hd.
54	6291798	Ring, Retaining	129	6290974	Screw, Pan Hd.
55	6291799	Knob	130	6290978	Switch, On/Off
56	6291800	Screw, Pan Hd.	131	6290984	Plate, Switch
57	6291801	Chart, Speed	132	6290759	Pushbutton, Light Switch
58	6291802	Case, Pulley, Upper	133	6290757	Box, Switch
59	6291803	Nut, Ring	134	6290756	Bracket, Light Socket
60	6291804	Pulley, Spindle	135	6290803	Wedge
61	6291805	V-Belt	136	6290804	Relief, Strain
69	6291806	Cord w/ Plug	137	6290805	Screw
70	6291807	Nut, Hex.	138	6290806	Clamp, Nylon
71	6291808	Cap, Spring		6290801	Quill Assembly (Items 86, 94, 96 & 108)
73	6291810	Nut, Hex.			

# EXPLODED VIEW: 2000 Drill Press



2011年12月22日

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