8" Bench Drill Press Model: 30-100



Record the serial number and date of purchase in your manual for future reference.

Serial number:

Date of purchase:

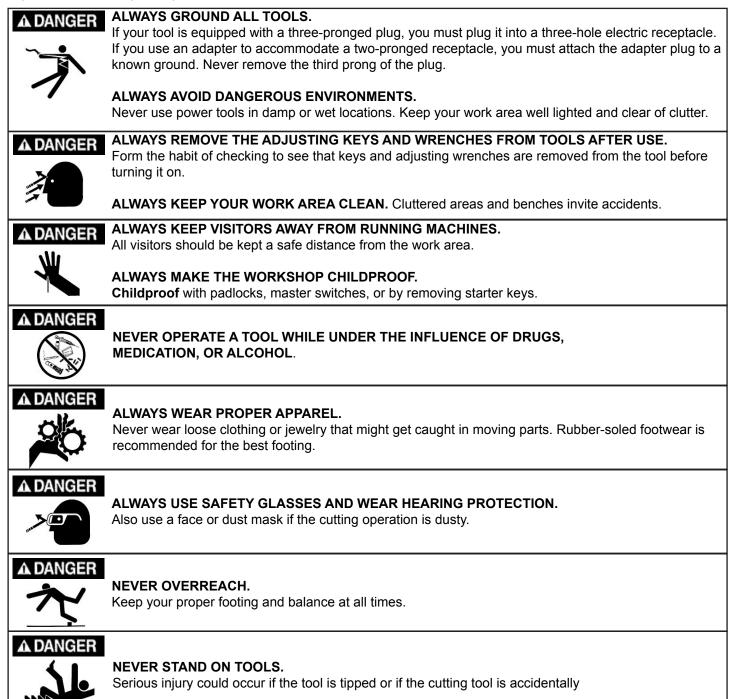
For more information: www.rikontools.com or info@rikontools.com For Parts or Questions: techsupport@rikontools.com or 877-884-5167

Safety Warnings

IMPORTANT! Safety is the single most important consideration in the operation of this equipment. The following instructions must be followed at all times.

There are certain applications for which this tool was designed. We strongly recommend that this tool not be modified and/ or used for any other application other than that for which it was designed. If you have any questions about its application, do not use the tool until you have contacted us and we have advised you.

General Safety Warnings KNOW YOUR POWER TOOL. Read the owner's manual carefully. Learn the tool's applications, work capabilities, and its specific potential hazards.



A DANGER ALWAYS DISCONNECT TOOLS.

Disconnect tools before servicing and when changing accessories such as blades, bits, and cutters.



ALWAYS AVOID ACCIDENTAL STARTING.

Make sure switch is in "OFF" position before plugging in cord.

NEVER LEAVE TOOLS RUNNING UNATTENDED.



ALWAYS CHECK FOR DAMAGED PARTS.

Before initial or continual use of the tool, a guard or other part that is damaged should be checked to assure 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 damaged parts should immediately be properly repaired or replaced.

Special Safety Rules For Drill Presses

- 1. Do Not operate the Drill Press until it is assembled and you have read the instructions.
- 2. Do not operate the Drill Press unless you are familiar with its safe operation. If you are not familiar with the operation of a Drill Press seek advice from your supervisor, instructor or other qualified individual.
- 3. If you are using a bench top Drill Press, it must be securely fastened to a stand or bench.
- 4. If you are operating a floor Drill Press it must be securely fastened to the floor.
- 5. Always clear the table and work area before turning on the Drill Press.
- 6. Always use drill bits, cutting tools and accessories with a $\frac{1}{2}$ " shank or less.
- 7. Never place hands near the drill bit, cutting tool or accessory.
- 8. Never wear loose clothing, gloves or ties while operating the Drill Press.
- 9. Always have a firm footing while operating the Drill Press.
- 10. Always keep work surface and work areas clear of debris.
- 11. Never attempt to do set-up work, assembly or layout work on the Drill Press while it is in operation.
- 12. Never start the Drill Press with the drill bit, cutting tool or accessory in contact with the work-piece.
- 13. Always lock all table, column and head locks before turning on the Drill Press.

- 14. Never operate the Drill Press with a damaged drill bit, cutting tool or accessory.
- 15. Always check the drill bit, cutting tool or accessory in tight in the chuck.
- 16. Never operate the Drill Press with the chuck key in the chuck.
- 17. Always adjust the depth stop to avoid drilling into the table surface.
- 18. Never drill material unless it is properly supported. Non flat work-pieces require additional support.
- 19. Always clamp the work piece to the table.
- 20. Always support large work-pieces at the same height as the table.
- 21. Never remove the work-piece or clear the table until the Drill Press comes to a complete stop.
- 22. Always wear a face shield and safety glasses while operating the Drill Press.
- 23. Never operate the Drill Press with missing, damaged, worn, loose or defective parts.
- 24. Never adjust, change speeds or perform maintenance on the Drill Press while it is operating.
- 25. Always clean the work surface and work area when finished operating the Drill Press.
- 26. Always disconnect the power when adjusting or performing maintenance on the Drill Press.
- 27. Always disconnect the power when finished using the Drill Press to prevent accidental operation.

California Proposition 65 Warning

WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Your risk from exposure to these chemicals varies, depending on how often you do this type of work. To reduce your exposure, work in a well-ventilated area and with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

For more detailed information about California Propostion 65 log onto rikontools.com.

SAVE THESE INSTRUCTIONS.

Refer to them often.

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Specifications

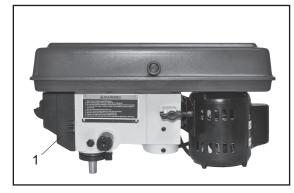
Model Number	30-100
Swing	8"
Motor	1/3 HP, 120V, 3.6A, 60Hz
Motor Speed	1750 RPM
Spindle Speeds	620, 1100, 1720, 2340, 3100 RPM
Chuck Type	Keyed
Chuck Capacity	1/2"
Spindle Taper	JT33
Spindle Travel	2"
Drilling Capacity	1/2"
Quill Diameter	1-1/2"
Table Size	6-5/8"L x 6-3/8"W
Column Diameter	2"
Net Weight	42LBS

Contents of Package

Unpacking and Checking Contents

Unpack your drill press from its carton and check to see that you have all of the following items. Set packing material and shipping carton to the side. **Do not discard** until machine has been set up and is running properly.

Do not turn your machine ON if any of these items are missing. You may cause injury to yourself or damage to your machine. If parts are missing contact RIKON customer service at 877-884-5167 or techsupport@rikontools.com.



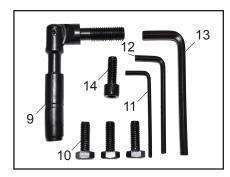
Item Description

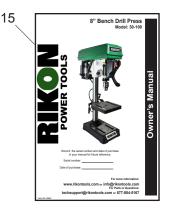
1	Drill I	Press	Head
---	---------	-------	------

- 2 Base
- 3 Table
- 4 1/2" Chuck
- 5 Chuck Key
- 6 Hardware Bag (See Contents Below)
- 7 Feed Handle
- 8 Column

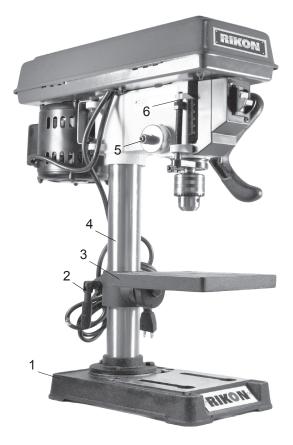
Item Description

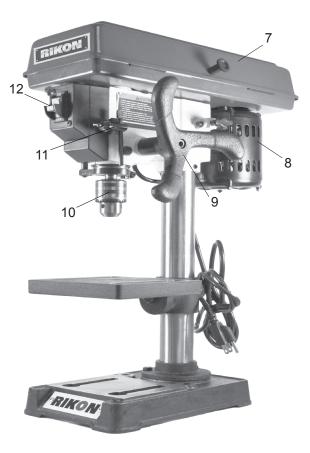
- 9 Table Lock Handle
- 10 Column Mounting Bolts
- 11 3mm Hex Wrench
- 12 4mm Hex Wrench
- 13 6mm Hex Wrench
- 14 Feed Handle Bolt
- 15 Owner's Manual





Getting to Know Your Drill Press





Item Description

- 1 Base
- 2 Table Lock Handle
- 3 Table
- 4 Column Support Tube
- 5 Handle Return Spring
- 6 Depth Stop

Item **Description**

- 7 Belt Cover
- 8 Motor
- 9 Feed Handle
- 10 Chuck
- 11 Chuck Key Holder
- 12 Switch

Assembly

The machine must not be plugged in and the power switch must be in the OFF position until assembly is complete.

Tools Required for Assembly

Item

Phillips Screwdriver

Description



Adjustable or 13mm Wrench

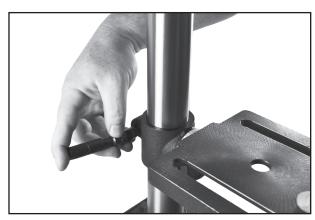
Unpacking and Clean-up

- 1. Carefully finish removing all contents from shipping carton. Compare contents of the shipping carton with the list shown on page 5. Place parts on a protected surface.
- 2. Report any shipping damage to your local distributor. If parts are missing contact RIKON customer service at 877-884-5167 or techsupport@rikontools.com.
- 3. Clean all rust protected surfaces. **Do not use**; gasoline, paint thinner, mineral spirits, etc. These may damage painted surfaces.
- 4. Set packing material and shipping carton to the side. Do not discard until machine has been set up and is running properly.
- 1. Install the column to the base using the three column mounting bolts. (Fig.01)



2. Next install the table lock handle through the unthreaded hole on the left of the table support casting. The handle should engage the thread on the right side of the table support casting. (Fig.02)

Fig.01





Assembly

3. Slide the drill press head over the column. (Fig.03)



Fig.03

4. Center the drill press head over the table and base. Tighten the drill press head into position by locking the two hex screws on the side of the casting. (A-Fig.04)

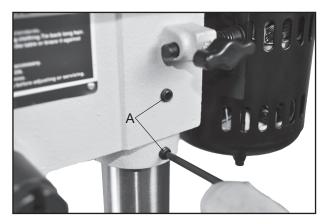


Fig.04

5. Next, slide the 1/2" chuck (A-Fig.05) over the pre-installed spindle (B-Fig.05). Open the chuck jaws fully and tap into place using a rubber mallet or a hammer and block of wood.

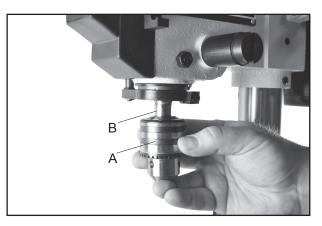


Fig.05

Assembly

 The feed handle (A-Fig.06) is secured to the feed shaft with the supplied Allen bolt (B-Fig.06).

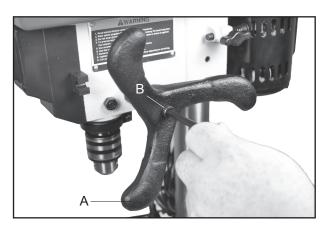


Fig.06

Adjustments

7. Depth Stop: The depth stop and scale are found on the left side of the switch box. To adjust, lower the drill chuck until pointer shows desired depth on the scale. Loosen the lower nut on the threaded shaft (A-Fig.07) until it bottoms out on the head casting (B-Fig.07). Tighten upper nut against the lower nut to retain the adjustment.

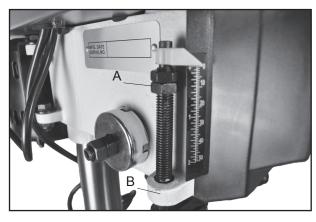


Fig.07

8. Table Tilt: The drill press table will tilt 0-45 degrees left and right. To tilt, loosen the nut located under the table (A-Fig.08). Align the "zero" mark on the table (B-Fig.08) to the desired degree marking on the scale. Tighten the nut under the table to retain the adjustment.

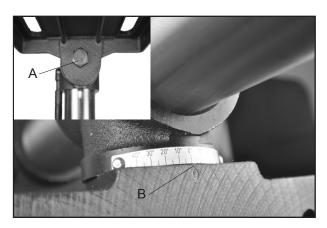
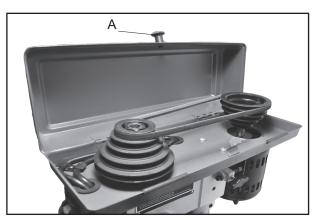


Fig.08

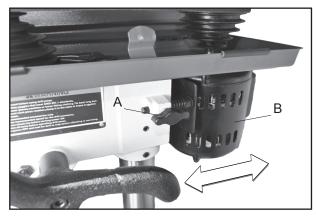
Adjustments

9. Changing Spindle Speed: The 30-100 Bench Drill Press has five spindle speeds. To change, lift the cover with the handle (A-Fig.09).





10. Loosen the motor lock knob (A-Fig.10). Move the motor (B-Fig.10) manually toward the feed handle to take tension off of the belt.





11. Move the drive belt to the desired speed position, refer to speed chart inside belt cover. Manually move the motor away from the feed handle until the belt is tensioned, tighten motor lock knob. The belt is properly tensioned when the deflection distance is 1/2" when pushed by hand (Fig.11).

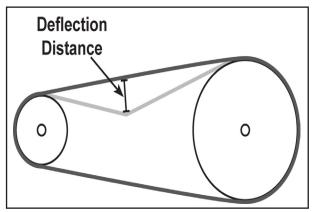


Fig.11

Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start.	 Cord not connected. 	 Check that cord is plugged in.
	2. No power at outlet.	 Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads.
	Internal damage or wear.	Have technician service tool.
Tool operates slowly.	Extension cord too long or wire size too small.	Eliminate use of extension cord. If an extension cord is needed, use shorter/heavier gauge cord. See Extension Cords in GROUNDING section.
Performance decreases over time.	 Accessory dull or damaged. Carbon brushes worn or 	 Keep cutting accessories sharp. Replace as needed. Have qualified technician replace brushes.
	damaged.	
Excessive noise or rattling.	 Belt too loose (slipping) or too tight (bearing damage). 	1. Properly tension belt.
	2. Spindle dry	2. Lubricate spindle
	Loose spindle pulley	3. Check pulley nut
	 Loose motor pulley 	4. Tighten Set screws
	5. Internal damage or wear.	5. Have technician service tool.
Overheating.	 Forcing machine to work too fast. 	 Allow machine to work at its own rate.
	Accessory misaligned.	2. Check and correct accessory to table alignment.
	Accessory dull or damaged.	 Keep cutting accessories sharp. Replace as needed.
	 Blocked motor housing vents. 	 Wear ANSI-approved safety goggles and NIOSH- approved dust mask/respirator while blowing dust out of motor using compressed air.
	 Motor being strained by long or small diameter extension cord. 	 Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See Extension Cords in GROUNDING section.
Drill bit burns or	 Incorrect spindle speed 	1. Change spindle speed
smokes	2. Dull drill bit	Replace with new bit
	Drilling too slowly	3. Drill faster
	 Lacking lubrication 	4. Lubricate cutting area
Drill bit wobbles	1. Bent bit	1. Replace drill bit
	Worn Spindle Bearings	2. Replace spindle bearings
	Drill bit not in Chuck correctly	3. Reinstall drill bit
	Chuck not properly installed	 Reinstall Chuck and Arbor assembly
Feed Wheel returns	Tension Spring not in adjustment	Adjust Tension Spring.
slowly, or too fast Drill bit binds	1. Workpiece pinching drill bit	1. Reposition workpiece, lubricate drill
Drin bit binds	2. Dull drill bit	2. Replace drill bit
	 Duil drill bit Feed pressure too hard 	3. Pull Feed Handle slowly.
	IS FEED DRESSURE TOO DORD	L3 FUILFEED HADDLE SIOWIV
	4. Belts loose	4. Adjust motor and spindle belt tension



Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.

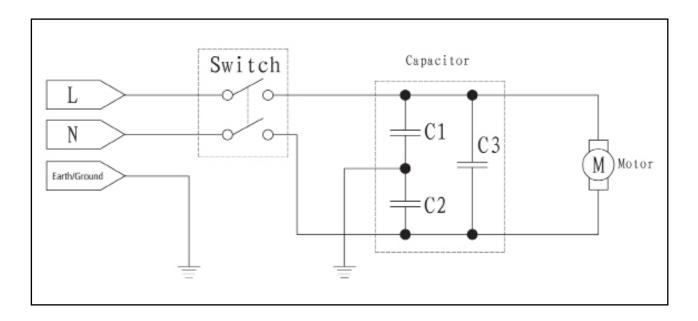
Notes

Use this section to record maintenance, service and any calls to Technical Support:

Wiring Diagram

WARNING:This machine must be grounded.

Replacement of the power supply cable should only be done by a qualified electrician.



Electrical Requirements

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

Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor, with insulation having an outer surface that is green with or without yellow stripes, is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only three wire extension cords that have three-prong grounding plugs and three-pole receptacles that accept the tool's plug.*

Repair or replace a damaged or worn cord immediately.

This tool is intended for use on a circuit that has an outlet that looks the one illustrated in Figure A below. The tool has a grounding plug that looks like the grounding plug as illustrated in Figure A below. A temporary adapter, which locks like the adapter as illustrated in Figure B below, may be used to connect this plug to a two-pole receptacle, as shown in Figure B if a properly grounded outlet is not available.** The temporary adapter should only be used until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear or tab, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

* Canadian electrical codes require extension cords to be certified SJT type or better.

** Use of an adapter in Canada is not acceptable.

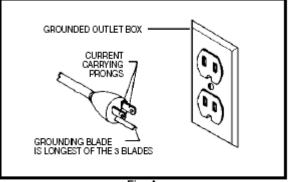
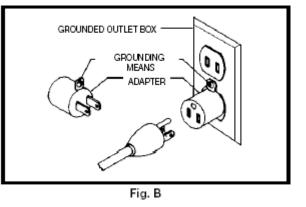
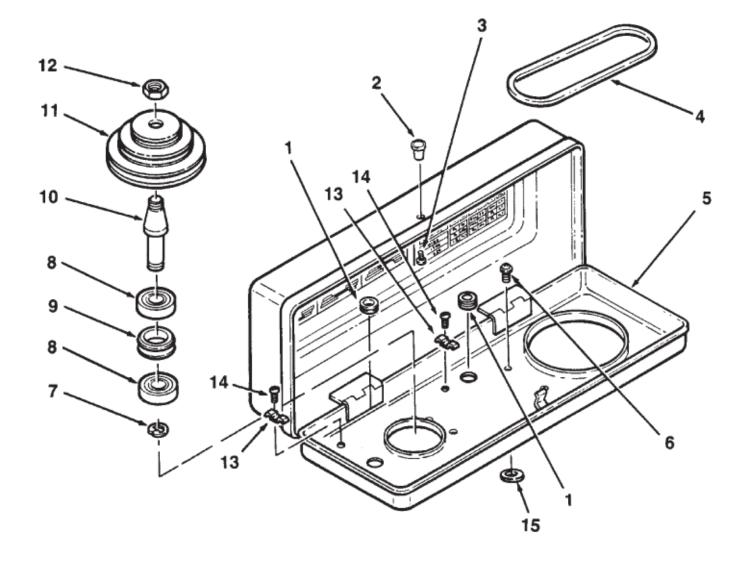


Fig. A



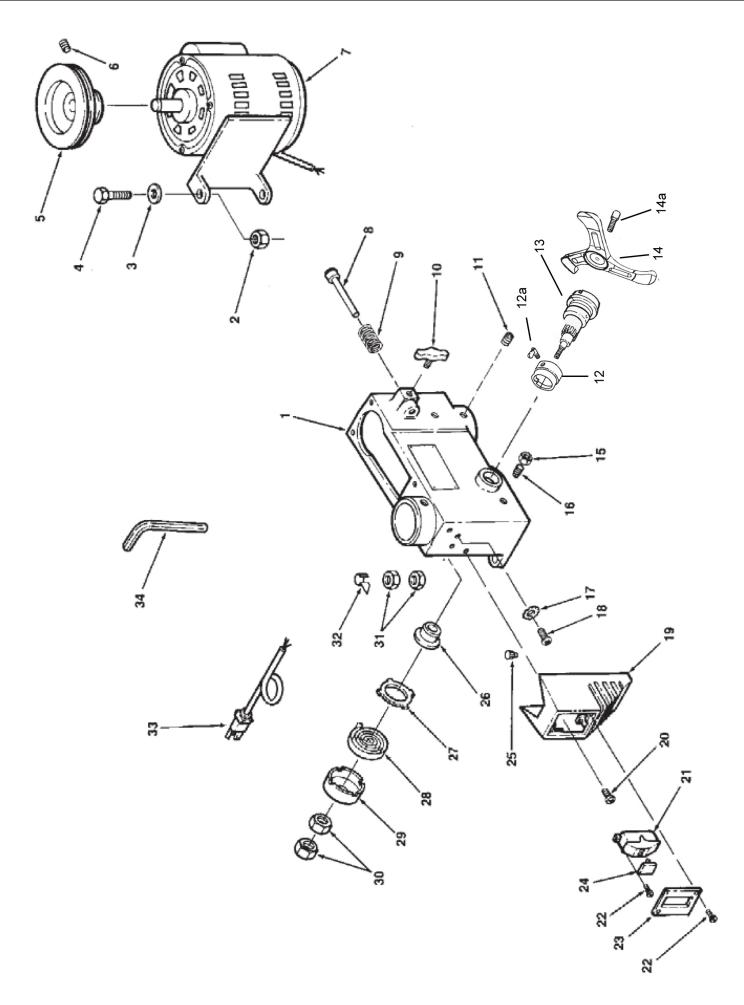
Explosion Diagram



Parts List

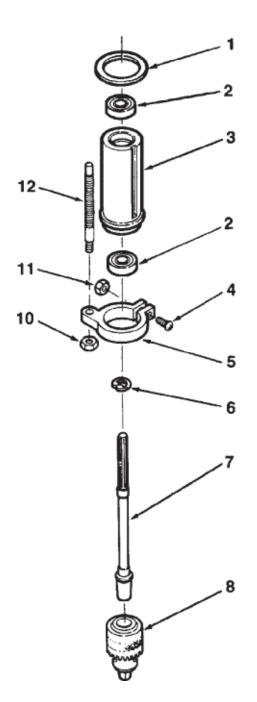
KEY No.	Description
30-100-1A	Bushing-Rubber
30-100-2A	Knob
30-100-3A	Screw-Pan Hd.M5x0.8-1.2
30-100-4A	Belt-"V" 5/16x26
30-100-5A	Guard w/Labels
30-100-6A	Screw-Washer Hd.
30-100-6A	Screw-Washer Hd.
30-100-7A	Ring Retaining
30-100-8A	Bearing-Ball 17mm
30-100-9A	Spacer
30-100-10A	Insert-Pulley
30-100-11A	Pulley-Spindle
30-100-12A	Nut-Pulley
30-100-13A	Clamp Cord
30-100-13A 30-100-14A 30-100-15A	Screw-Pan Hd.M5x.08-16 Washer,Foam

Explosion Diagram



	Parts List
KEY No.	Description
30-100-1B	Head w/Roll Pin & Trim
30-100-2B	Nut-Lock M8x1.25-8
30-100-3B	Washer 8MM
30-100-4B	Screw-Hex M8x1.25-25
30-100-5B	Pulley-Motor
30-100-6B	Screw-Hex Soc. Set M8x1.25-8
30-100-7B	Motor
30-100-8B	Stop-Motor
30-100-9B	Spring-Motor Stop
30-100-10B	Knob-Motor Adjusting
30-100-11B	Screw-Hex Soc. Set M8x1.25-8
30-100-12B	Ring-depth Stop w/Scale
30-100-12a	Lock Depth Screw
30-100-13	Hub
30-100-14B	Cast Iron Handwheel
30-100-14a 30-100-15B	Socket Head Screw Nut-Hex M8x1.25
30-100-16B	Screw-Fit.Sit.Set M8x1.25
30-100-17B	Lockwasher-Ext.5mm
30-100-18B	Screw-Pan Hd. M5x0.8-8
30-100-19B	Box-Switch w/Depth Scale
30-100-20B	Screw-Pan Cr., M5x0.8-12
30-100-20B	Switch-Locking
30-100-21B	Screw-Self Tapping Pan
30-100-23B	Cover-Switch Plate
30-100-23B	Key-Switch
30-100-25B	Connector-Wire
30-100-26B	Seat-Spring
30-100-20B	Retainer-Spring
30-100-28B	Spring-Tension
30-100-29B	Cap-Spring
30-100-30B	Nut-Hex 3/8-24
30-100-31B	Nut Hex M10x1.5
30-100-32B	Pointer
30-100-33B	Cord-Power
30-100-33D	

Explosion Diagram



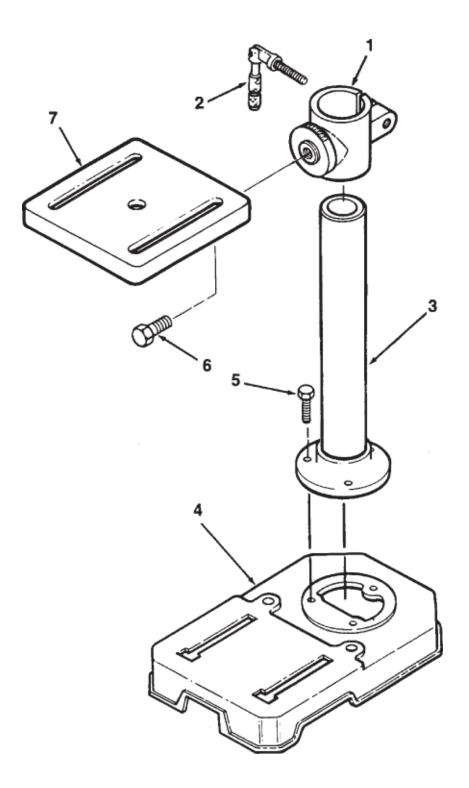
Parts List

KEY No.
30-100-1C
30-100-2C
30-100-3C
30-100-4C
30-100-5C
30-100-6C
30-100-7C
30-100-8C
30-100-9C
30-100-10C
30-100-11C
30-100-12C

Description

Gasket-Quill Bearing-Ball 12mm Tube-Quill Screw-Pan M5x0.8-20 Collar-Stop Ring Retaining Shaft-Spindle Chuck Key-Chuck Nut-Hex M6x1.0 Nut-Hex M5x.08 Rod-Stop

Explosion Diagram



Parts List

KEY No.

30-100-1D
30-100-2D
30-100-3D
30-100-4D
30-100-5D
30-100-6D
30-100-7D

Description

Support-Table w/Scale Support-Lock Handle Tube/Support Base Screw-Hex Hd. M8x1.25-20 Screw-Hex Hd. 1/2-12x7/8 Table

Warranty



5-Year Limited Warranty

RIKON Power Tools Inc. ("Seller") warrants to only the original retail consumer/purchaser of our products that each product be free from defects in materials and workmanship for a period of five (5) years from the date the product was purchased at retail. This warranty may not be transferred.

This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs, alterations, lack of maintenance or normal wear and tear. Under no circumstances will Seller be liable for incidental or consequential damages resulting from defective products. All other warranties, expressed or implied, whether of merchantability, fitness for purpose, or otherwise are expressly disclaimed by Seller. This warranty does not cover products used for commercial, industrial or educational purposes.

This limited warranty does not apply to accessory items such as blades, drill bits, sanding discs or belts and other related items.

Seller 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.

To take advantage of this warranty proof of purchase documentation, which includes date of purchase and an explanation of the complaint, must be provided.

The Seller reserves 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.

To take advantage of this warranty, please fill out the enclosed warranty card and send it to: RIKON Warranty 16 Progress Rd. Billerica, MA 01821

The card must be entirely completed in order for it to be valid. If you have any questions please contact us at 877-884-5167 or warranty@rikontools.com.

Notes



For more information: 16 Progress Rd Billerica, MA 01821

877-884-5167 / 978-528-5380 techsupport@rikontools.com www.rikontools.com