BENCHMARK™ MC

10” 5 SPEED DRILL PRESS
1334-100

LIMITED 5 YEAR* WARRANTY

5 Year Limited Warranty

c UL us LISTED
E205198
1013B

READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.

WEAR CSA APPROVED EYE PROTECTION

WEAR EAR PROTECTION

WEAR A FACE MASK

PRODUCT SPECIFICATIONS

10” 5 SPEED DRILL PRESS	
Rating	120V~ 60 Hz, 2.5A Induction motor
No Load Speeds	620, 1,000, 1,500, 2,180, 3,100 RPM
Chuck Size	1/2” KEYED
Distance From Spindle To Column	5” (127 mm)
Max Distance From Chuck To Base	12-1/4” (310 mm)
The Overall Height	28-3/8” (720 mm)
Spindle Travel	2-3/8” (60 mm)
Column Diameter	2-3/8” (60 mm)
Table Size	7-13/16” L x 7-11/16” W (198 x 196 mm)
Replacement Bulb	Halogen bulb MR11 20W
Weight	58.2 lb (26.4kg)

NEED ASSISTANCE?

Call us on our toll- free customer support line:
1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package

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GENERAL SAFETY WARNINGS

⚠ WARNING:

Before using this tool or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions. The important precautions, safeguards and instructions appearing in this manual are not meant to cover all possible situations. It must be understood that common sense and caution are factors which cannot be built into the product.

SYMBOL	MEANING
	**ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA Z94.3 or ANSI SAFETY STANDARD Z87.1** FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection. **Non-compliant eyewear can cause serious injury if broken during the operation of a power tool.**
	Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.
	**WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT.** Dust that is created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals that are known to cause cancer, birth defects, or other genetic abnormalities. These chemicals include: • Lead from lead-based paints • Crystalline silica from bricks, cement, and other masonry products • Arsenic and chromium from chemically treated lumber the level of risk from exposure to these chemicals varies, according to how often this type of work is performed. In order to reduce exposure to these chemicals, work in a well-ventilated area, and use approved safety equipment, such as a dust mask that is specifically designed to filter out microscopic particles.

READ ALL INSTRUCTIONS

KNOW YOUR TOOL
Read and understand the owners manual and labels affixed to the tool. Learn its application and limitations as well as its specific potential hazards.
GROUND THE TOOL.
This tool is equipped with an approved 3-conductor cord and a 3-prong grounding type plug to fit the proper grounding type receptacle. The green conductor in the cord is the grounding wire.
NEVER connect the green wire to a live terminal.
KEEP GUARDS IN PLACE.
Keep in good working order, properly adjusted and aligned.
REMOVE ADJUSTING KEYS AND WRENCHES.
Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
KEEP WORK AREA CLEAN.
Cluttered areas and benches invite accidents. Make sure the floor is clean and not slippery due to wax and sawdust build-up.
AVOID DANGEROUS ENVIRONMENTS.
Don’t use power tools in damp or wet locations or expose them to rain. Keep work area well lit and provide adequate surrounding work space.
KEEP CHILDREN AWAY.
All visitors should be kept a safe distance from work area.
MAKE WORKSHOP CHILD-PROOF with padlocks, master switches or by removing starter keys.
DO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.
USE RIGHT TOOL.
Don’t force the tool or the attachment to do a job for which it was not designed.
WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties or jewellery (rings, watch) because they could get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair. Roll up long sleeves above the elbows.
ALWAYS WEAR SAFETY GLASSES. Any power tool can throw foreign objects into the eyes and could cause permanent eye damage. ALWAYS wear Safety Goggles (not glasses) that comply with ANSI Safety standard Z87.1. Everyday eyeglasses have only impact–resistant lenses. They ARE NOT safety glasses.
NOTE: Glasses or goggles not in compliance with ANSI Z87.1 could seriously injure you when they break
WEAR A FACE MASK OR DUST MASK.
SECURE WORK. Use clamps or a vise to hold work when practical. It is safer than using your hand and it frees both hands to operate the tool.
DONT OVERREACH. Keep proper footing and balance at all times.
MAINTAIN TOOL WITH CARE. Keep tools sharp and clean for best and safest performance.Follow instructions for lubricating and changing accessories.
DISCONNECT TOOLS Before servicing, when changing accessories or attachments.
AVOID ACCIDENTAL STARTING. Make sure the swich is in the ‘’OFF’’ position before plugging in.
USE RECOMMENDED ACCESSORIES. Consult the manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.
NEVER STAND ON TOOL. Serious injury could occur if the tool tips over. Do not store materials such that it is necessary to stand on the tool to reach them.
CHECK DAMAGED PARTS. Before further use of the tool, a guard or other parts that are damaged should be carefully checked to ensure that they will operate properly and perform their intended function. Check for alignment of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other parts that are da - maged should be properly repaired or replaced.
NEVER LEAVE MACHINE RUNNING UNATTENDED. Turn power ‘’OFF’’. Don’t leave any tool running until it comes to a complete stop.
DO NOT use power tool in presence of flammable liquids or gases.
DO NOT operate the tool if you are under the influence of any drugs, alcohol or medicationn that could affect your ability to use the tool properly.

WARNING: People with electronic devices, such as pacemakers, should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.

SERVICE
Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

SPECIFIC SAFETY RULES

READ ALL INSTRUCTIONS BEFORE OPERATING PRODUCT. FAILURE TO FOLLOW ALL INSTRUCTIONS LISTED BELOW MAY RESULT IN ELECTRIC SHOCK, FIRE AND OR SERIOUS INJURY. Do not operate this tool until it is assembled and installed according to the instructions.

YOUR DRILL PRESS MUST BE BOLTED securely to a workbench. In addition, if there is any tendency for your drill press to move during certain operations, bolt the workbench to the floor.

DO NOT try to drill material too small to be securely held.

ALWAYS keep hands out of the path of a drill bit. Avoid awkward hand positions where a sudden slip could cause your hand to move into the drill bit.

DO NOT install or use any drill bit that exceeds 7 in. (175 mm) in length or extends 6 in. (150 mm) below the chuck jaws. They can suddenly bend outward or break.

DO NOT USE wire wheels, router bits, shaper cutters, circle (fly) cutters, or rotary planers on this drill press.

WHEN cutting a large piece of material, make sure it is fully supported at the table height.

NEVER hold the work piece by hand. Secure the work piece with a clamp or another appropriate fixture if it is not long enough to be braced against the table column.

CLAMP THE WORKPIECE OR BRACE IT against the left side of the column to prevent rotation. If it is too short or the table is tilted, clamp it solidly to the table.

IF THE WORKPIECE overhangs the table such that it will fall or tip if not held, clamp it to the table or provide auxiliary support

TO AVOID INJURY FROM PARTS BEING THROWN BY THE SPRING . Follow the instructions exactly as given and shown in “Adjusting the quill return spring”.

USING A DRILL PRESS VISE. When using a drill press vise, always fasten it to the table.

NEVER DO ”FREEHAND WORK”Never do any work “Freehand” (hand holding the workpiece rather than supporting it on the table) except when you have polishing to do.

SECURE the lock head to the column, table support to column and table to table support before operating the drill press.

NEVER move the head or table while the drill press is running.

USE THE RECOMMENDED SPINDLE SPEED for the specific operation and workpiece material. Check the panel inside the guard cover for drill information. For accessories, use the instructions provided with the accessories.

NEVER climb on the drill press table, it could break or pull the entire drill press down on you.

WARNING:

ALL ELECTRICAL CONNECTIONS MUST BE DONE BY A QUALIFIED ELECTRICIAN. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY! ALL ADJUSTMENTS OR REPAIRS MUST BE DONE WITH THE MACHINE DISCONNECTED FROM THE POWER SOURCE. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY!

SAFETY SYMBOLS

WARNING: Some of the following symbols may appear on your tool. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

V	Volts	3n ~	Three-phase alternating current with neutral
A	Amperes		
Hz	Hertz	⎓	Direct current
W	Watts	n_0	No load speed
kW	Kilowatts		Alternating or direct current
µF	Microfarads		Class II construction
L	Litres		Splash-proof construction
kg	Kilograms		Watertight construction
H	Hours		Protective grounding at terminal, Class I tools
N/cm^2	Newtons per square centimeter	.../min	Revolutions or reciprocations per minute
Pa	Pascals	Ø	Diameter
Min	Minutes	O	Off position
S	Seconds		Directional arrow
~ or AC	Alternating current		Warning symbol
3 ~	Three-phase alternating current		Wear your safety glasses

c UL us
LISTED
E205198
1013B

This symbol designates that this tool is listed with Canadian and U.S. requirements by UL
Conforms to UL Std. 987， Stationary and Fixed Electric Tools
Certified to the CSA C22.2 No. 71.2 M89

EXTENSION CORD SAFETY

POWER SUPPLY

WARNING: YOUR DRILL PRESS MUST BE CONNECTED TO A 120V WALL OUTLET, WITH A MINIMUM 15-AMP. BRANCH CIRCUIT AND USE A 15-AMP TIME DELAY FUSE OR CIRCUIT BREAKER. FAILURE TO CONNECT IN THIS WAY CAN RESULT IN INJURY FROM SHOCK OR FIRE.

GROUNDING

Your drill press must be properly grounded. Not all outlets are properly grounded. If you are not sure if your outlet is properly grounded, have it checked by a qualified electrician.

WARNING: IF NOT PROPERLY GROUNDED, THIS DRILL PRESS CAN CAUSE ELECTRICAL SHOCK, PARTICULARLY WHEN USED IN DAMP LOCATIONS. TO AVOID SHOCK OR FIRE, IF THE POWER CORD IS WORN OR DAMAGED IN ANY WAY, HAVE IT REPLACED IMMEDIATELY.

If this drill press should malfunction or breakdown, grounding provides a path of least resistance for electric current, to reduce the risk of electric shock. This drill press is equipped with a cord having an equipmentgrounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING: TO MAINTAIN PROPER GROUNDING, DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER.

120V OPERATION

As received from the factory, your drill press is ready to run for 120V operation. This machine is intended for use on a circuit that has an outlet and a plug which looks like the one illustrated in Fig.1.

WARNING: DO NOT USE A TWO-PRONG ADAPTOR(S) FOR THEY ARE NOT IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.NEVER USE IN CANADA.

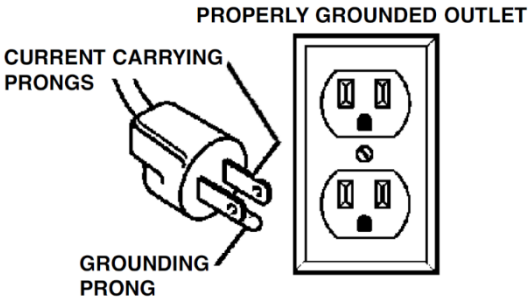


Figure 1

EXTENSION CORDS

The use of any extension cord will cause some loss of power. If you do not have a choice, use the table in Fig.2 to determine the minimum wire size (A.W.G-American Wire Gauge) extension cord needed. Use only 3-wire extension cords which have 3-prong grounding type plugs and 3-hole receptacles which accept the tool's plug. For circuits that are further away from the electrical circuit box, the wire size must be increased proportionately in order to deliver ample voltage to the drill press motor. Refer to Fig.2 for wire length and size.

MINIMUM GAUGE (AWG) EXTENSION CORD (120 V use only)

Amperage rate		Total length			
More than	Not more than	25' (7.5 m)	50' (15 m)	100' (30 m)	150' (45m)
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Applicable	

Figure 2

USING ON/OFF SWITCH WITH REMOVABLE SAFETY KEY

The On/Off switch (A) Fig.3 is used to turn the drill press on and off.To turn the drill press “On”, move the switch upwards (On position), to turn the drill press “Off”, move the switch downwards (Off position).This switch comes with a removable safety key (B). When the safety key is removed from the switch and placed in a safe location, unauthorized persons or children can’t turn the switch to the On position. It is recommended to always remove the safety key from the switch whenever the drill press is not in use. To remove the safety switch, make sure the switch is in the Off position and simply pull out the safety key.

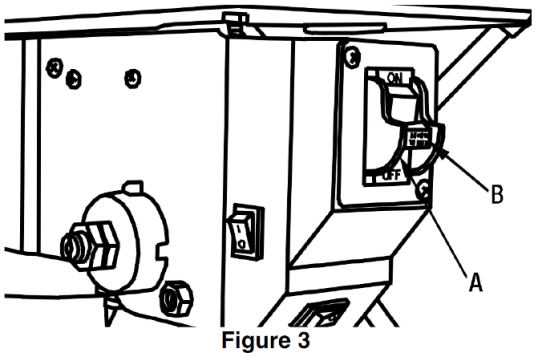
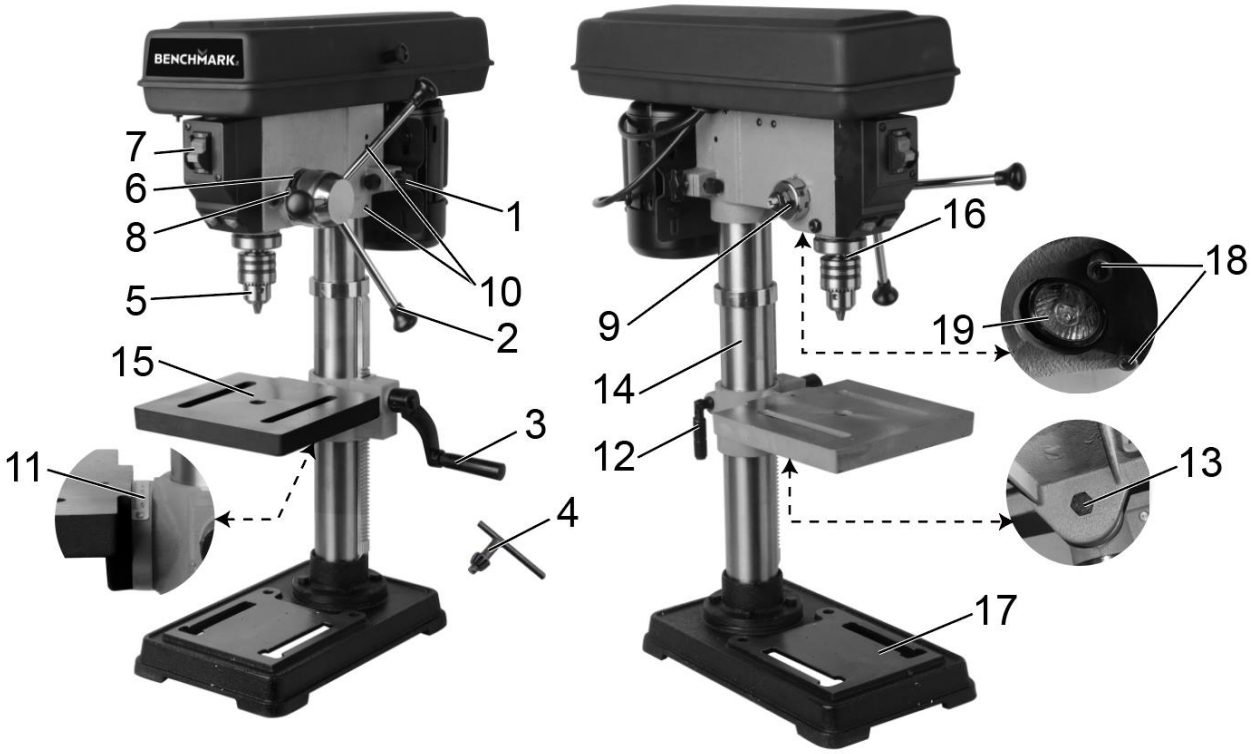


Figure 3

KNOW YOUR DRILL PRESS



1. BELT TENSION LOCK KNOB
2. FEED HANDLE
3. TABLE CRANK HANDLE
4. CHUCK KEY
5. CHUCK
6. DEPTH SCALE
7. ON-OFF SWITCH
8. DEPTH SCALE LOCK KNOB
9. SPRING CAP
10. HEAD LOCKING SET SCREWS
11. BEVEL SCALE
12. SUPPORT LOCK HANDLE
13. TABLE BEVEL LOCK
14. COLUMN
15.TABLE
16. QUILL
17. BASE
18. LASER
19. HALOGEN LIGHT

ASSEMBLY AND OPERATION

1. Position the base (A) Fig.4 on the floor. Remove the protective covering and discard.
2. Remove protective sleeve from the column (B) and discard. Place the column assembly on the base, align the holes in the column support (C) with the holes in the base.
3. Locate three long bolts from the parts bag.
4. Install a bolt in each hole through the column support (C) and the base and tighten with the ajustable wrench.
5. Loosen set screw (A) Fig.5 in column collar (B) with 3mm hex. key (C) and remove collar and rack (D) from the column
6. Find the elevation worm gear shaft (A) Fig.6 in the loose parts bag. Insert the elevation shaft into the table support (B) and extend the shaft through the opening as far as possible. The crank handle (C) is to be installed on the elevation shaft, the set screw (D) is to be aligned with the flat portion of the shaft. The crank is to be positioned as close to the arm support as possible, then tighten the set screw.
7. With the long smooth end of the rack (A) Fig.7 pointing upwards, slide rack down through the large round opening in the table support (B). Engage rack in gear mechanism found inside the opening of the table support.

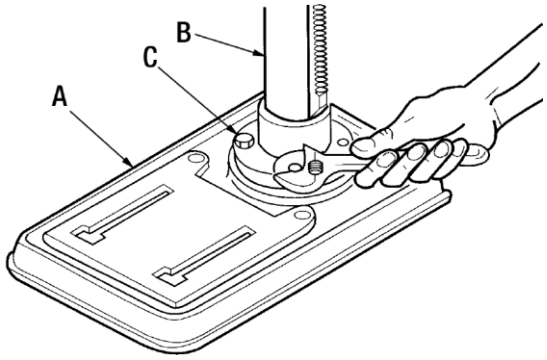


Fig 4

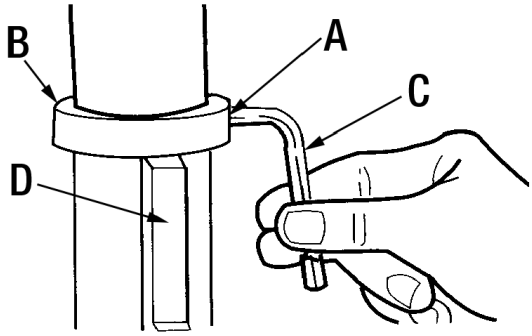


Fig 5

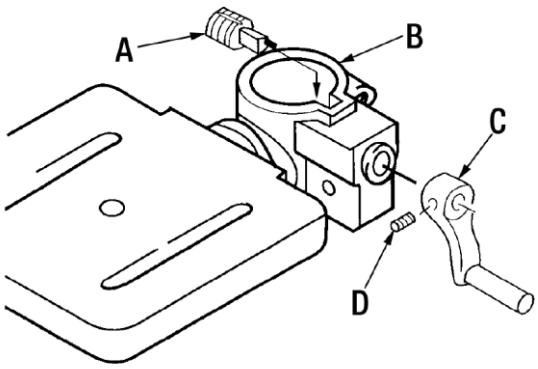


Fig 6

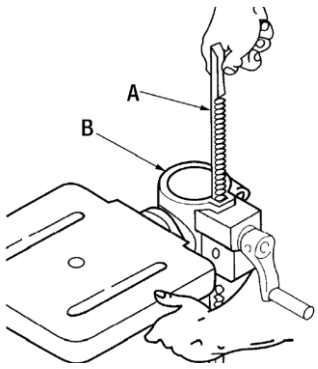


Fig 7

8. While holding the rack (A) Fig.6 and table support (B) in an engaged position, slide both down over the column (C). Slide rack down the column until the rack is positioned against the lower column support (D).
9. Replace column collar (A) Fig.7 and position it bevel side down over the rack (B). Tighten set screw (C) in collar with 3mm hex. key (D). To let the rack slide when the table is swung to the left or right around the column, the collar must sit loosely over the rack and should not be angled on the column. Only tighten set screw enough to keep the collar in place, otherwise the collar may break due to excessive pressure.

NOTE: To avoid column or collar damage, do not overtighten set screw.

10. Locate the support lock handle (A) Fig.10 in loose parts bag and tighten by hand.
11. To minimize crank backlash; tighten the support lock handle and rotate the elevation worm shaft clockwise with the crank handle.

Loosen the set screw in the crank and reposition it as close to the table support as possible. Tighten set screw in the crank handle.

INSTALLING THE HEAD

1. Remove the protective covering from the head assembly (A) Fig.11.
2. Carefully lift the head above the column and slide it down on the column as far as it will go. Align the head with the table and the base.
3. Using a 4mm hex. key, tighten both head set screws (B) on the right side of the head.

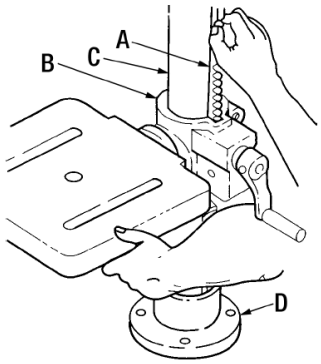


Fig 8

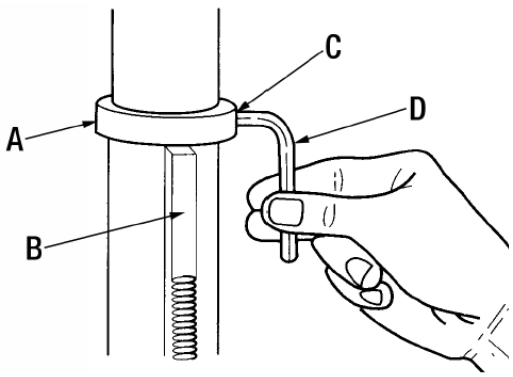


Fig 9

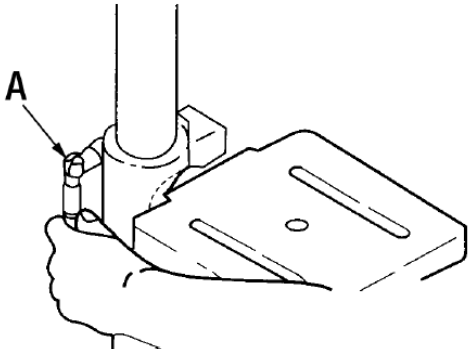


Fig 10

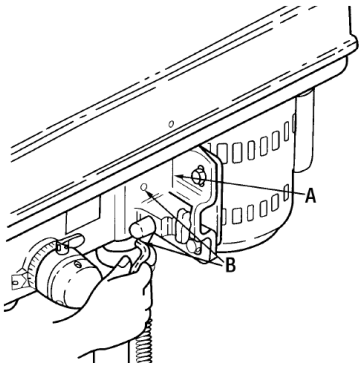


Fig 11

INSTALLING THE CHUCK

1. Locate the chuck (A) Fig.12 in the box of parts.
2. Clean out the tapered hole in the chuck, also clean the spindle nose (B) with a clean cloth. Make sure there are no foreign particles sticking to the surfaces.The slightest piece of dirt on the spindle nose or the chuck will prevent the chuck from seating properly. This will cause the drill to “wobble”.

NOTE: If the tapered hole in the chuck is extremely dirty, use a cleaning solvent on a clean cloth.

3. Push the chuck up on the spindle nose as far as it will go.
4. Turn the chuck sleeve clockwise and open the chuck jaws completely.
5. Lightly tap the nose of the chuck with a piece of wood to insure the proper seating of the chuck on the spindle.

REMOVING THE CHUCK

1. Open the jaws of the chuck as wide as they will go by turning the chuck sleeve.
2. Carefully tap the chuck (A) Fig.13 with a mallet (B- not included) in one hand while holding the chuck in the other hand to prevent the chuck from dropping when it is released from the spindle nose.

INSTALLING THE FEED HANDLES

1. Locate the three feed handles (A) Fig.14 among the loose parts.
2. Screw the feed handle tightly into the threaded holes in the hub (B).

TENSIONING THE BELT / SETTING DESIRED DRILLING SPEED

NOTE: The drill press is shipped with the belt installed, but it should be properly tensioned before use.

1. Lift the guard (A) Fig.15 from the right side and keep it opened.
2. Release the belt tension lock knob (B) located on the right side of the drill press head. Pull the right side of the motor towards the front to relieve the spring tension of the belt. Tighten the belt tension lock knob .
3. Choose the desired speed for your drilling operation, and move the belt to the indicated position on the pulleys. Refer to the chart on the inside of the belt guard.
4. Loosen the belt tension lock knob and move the right side of the motor backwards to apply tension to the belt.
5. Tighten the belt tension lock knob.

NOTE: The belt should deflect approximately 1/2" by applying finger pressure at the mid-point of the belt between the pulleys.

6. Close the belt guard.
7. If the belt slips while drilling, reajust the belt tension.

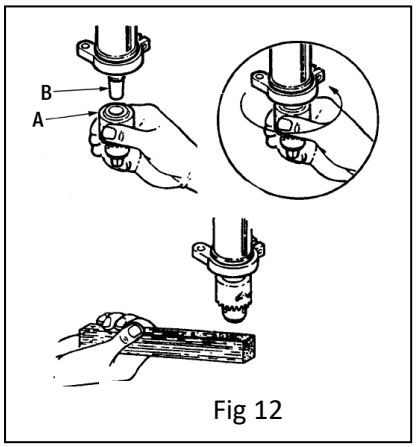


Fig 12

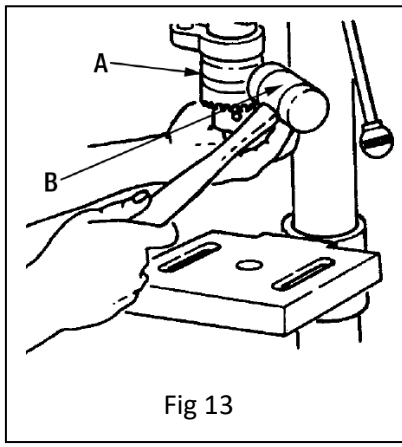


Fig 13

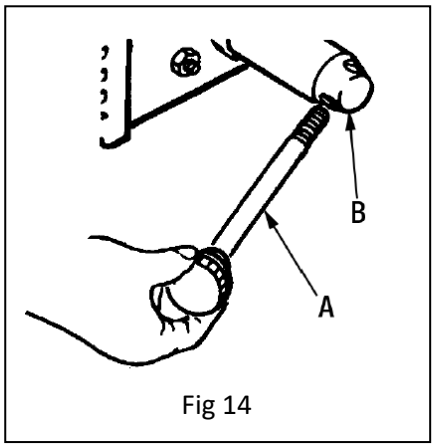


Fig 14

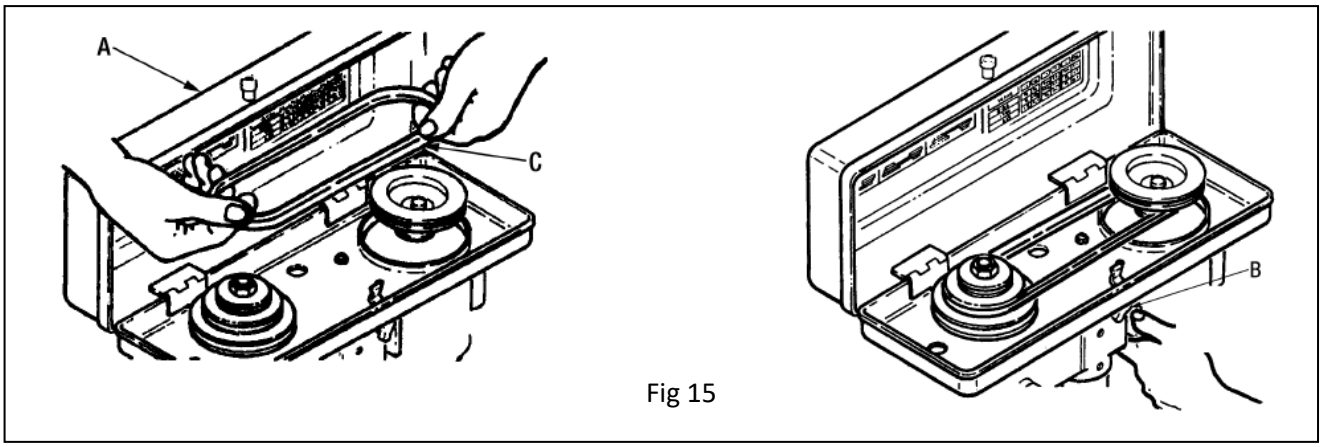


Fig 15

WARNING ! For your own safety, turn the switch OFF and remove the plug from the power source before making any adjustements. To avoid injury from thrown parts due to the spring release, follow instructions carefully and wear safety glasses.

INSTALLING DRILL BITS

Insert a drill bit (A) Fig.16 into the chuck (B) far enough to obtain the maximum gripping of the chuck jaws. When using a small drill bit, do not insert it so far that the jaws touch the flutes (spiral grooves) of the bit.

Make sure the drill bit is centered in the chuck before tightening the chuck with the chuck key (C). Tighten the drill bit well, so that it doesn't slip while drilling. Turn the chuck key clockwise to tighten, counterclockwise to loosen.

DRILLING TO A SPECIFIC DEPTH

To drill a blind hole (not all the way through) to a given depth, proceed as follows.

1. Mark the depth of the hole on the workpiece.
2. Loosen the depth scale lock knob (A) Fig.17.
3. With the switch OFF, bring the drill bit down until the tip of the lips of the drill bit are even with the mark (B).
4. Turn the depth scale (C) counterclockwise until it stops moving.
5. Tighten the depth scale lock knob.
6. The drill bit will stop at this depth until the depth scale is readjusted.

ALTERNATE METHOD OF SETTING DEPTH SCALE

1. With the power OFF, loosen the depth scale lock knob (A) Fig.17.
2. Place workpiece on table. Adjust table until the tip of the drill is just a little above the top of the workpiece.
3. Turn the depth scale (C) clockwise until the depth scale indicator (D) points to the desired drilling depth on the scale.
4. Tighten the depth scale lock knob.
5. The chuck or drill will now be stopped after traveling downward the distance selected on the depth scale.

ADJUSTING THE QUILL RETURN SPRING

NOTE: The return spring tension is set at the factory and should not require further adjustment.

1. With the chuck at its highest possible position, turn the depth scale (C) Fig.17 clockwise until it stops and tighten the depth scale lock knob (A) Fig.17. This will prevent the quill from dropping while tensioning the spring.
2. Lower the table for additional clearance.
3. Work from the left side of the drill press.
4. Place screwdriver (not included) in the lower front notch (A) Fig.18 of the spring cap (B), and hold it in place while loosening and removing the outer nut (C) (only).
5. With screwdriver remaining in the notch, loosen inner nut (D) (approx. 1/8”) until the notch disengages from the boss on the head. Do not remove this nut.
6. Carefully turn screwdriver counterclockwise and engage the next notch (E) in the boss. Do not remove screwdriver.
7. Tighten nut with wrench only enough to engage boss. Do not over tighten as this will restrict quill movement.
8. Check tension while turning feed handles.
9. If there is not enough tension on the spring, repeat steps 4-8 moving only one notch each time and checking tension after each repetition.

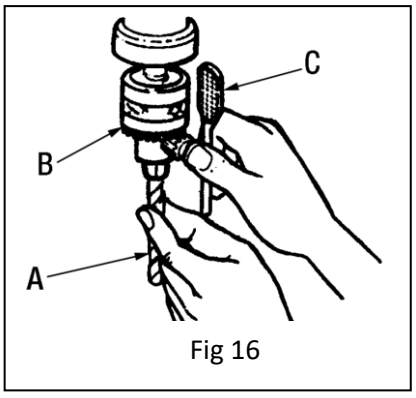


Fig 16

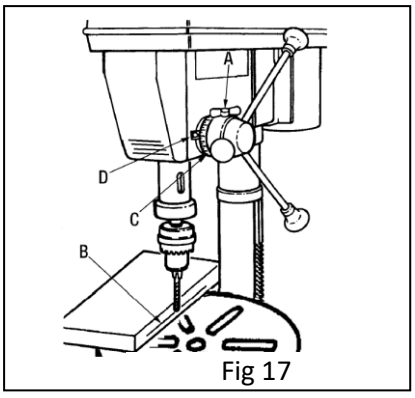


Fig 17

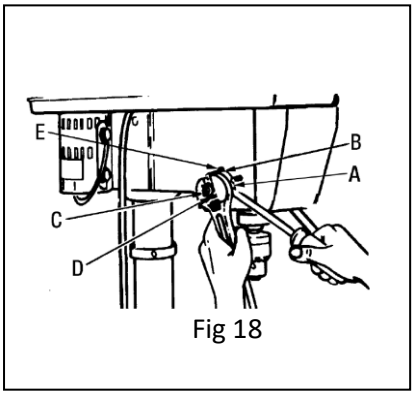


Fig 18

ADJUSTING THE TABLE SQUARE TO THE HEAD

1. Insert a precision round steel rod (A) Fig.19 approximately 3” long into the chuck and tighten.
2. With the table (B) raised to working height and locked into position, place a combination square (C) flat on the table beside the rod.
3. If an adjustment is necessary, loosen the table bevel lock bolt (D) with an adjustable wrench. This adjustment is located under the table.
4. Align the table square to the rod by tilting the table.
5. Retighten the table bevel lock bolt.

TILTING THE TABLE
To use the table in a bevel position, loosen the bevel lock bolt (D) Fig.19 with an adjustable wrench. Tilt the table to the desired angle by reading the bevel scale on the table support. Retighten the bevel lock bolt.

FEEDING
Pull down the feed handles (A) Fig.20 with only enough effort to allow the drill to cut. Feeding too slowly might cause the drill to burn...feeding too rapidly might stop the motor...cause the belt or drill to slip... tear the workpiece loose or break the drill bit.

HOLE LOCATION
Make an indentation in the workpiece where you want the to drill a hole using a centre punch or a sharp nail. Before turning the switch ON, bring the drill bit down to the workpiece, lining it up with the hole location.

POSITIONING THE TABLE AND WORKPIECE
Lock the table to the column in a position so that the tip of the drill is just a little above the top of the workpiece. Always place a piece of back-up material (wood, plywood) on the table underneath the workpiece. This will prevent splintering or making a heavy burr on the underside of the workpiece as the drill breaks through. To keep the back-up material from spinning out of control, it must come
in contact with the left side of the column, as illustrated in Fig.20.

WARNING! To prevent the workpiece or the back-up material from being torn from your hand while drilling, position them against the left side of the column. If the workpiece or the back-up material are not not long enough to reach the column, clamp them to the table. Failure to do this could result in personal injury.

LIGHT & DUAL LASER GUIDE SYSTEM

THE WER LIGHT/WER RADIATION USED IN THE SYSTEM IS CWS 2 WITH MAXIMUM 1MW AND 650NM WAVELENGTHS. THESE LASERS DO NOT NORMALLY PRESENT AN OPTICAL HAZARD, ALTHOUGH STARING AT THE BEAM MAY CAUSE FLASH BLINDNESS.

WARNING: Do not stare directly at the laser beam

A hazard may exist if you deliberately stare into the beam, please observe all safety rules as follows;

•The laser shall be used and maintained in accordance with the manufacturer's instructions.

• Never aim the beam at any person or an object other than the workpiece.

•The laser beam shall not be deliberately aimed at personnel and shall be prevented from being directed towards the eye of a person for longer than 14 second.

•Always ensure the laser beam is aimed at a sturdy workpiece without reflective surfaces ie. Wood or rough coated surfaces are acceptable. Bright shiny reflective sheet steel or the like is not suitable for laser use as the reflective surface could direct the beam back at the operator.

• Do not change the laser light assembly with different type. Repairs must be carried out by an authorised agent.

If you desire to use the dual laser guides, use the laser switch (A) Fig.21 to turn them On or Off. If an adjustment to the laser guides are necessary, proceed as follows;

1) Loosen set screw (B) (one set screw for each laser) and then slightly turn laserguide (C) in either direction, this will reposition the laser beams trajectory, adjust the position of the laser guides this way until both beams intersect at the point where the drill bit touches the workpiece. Retighten set screw after each adjustment.
2) Just below the On-Off Switch for the laser, is the light switch (D) which turns the worklight On and Off.

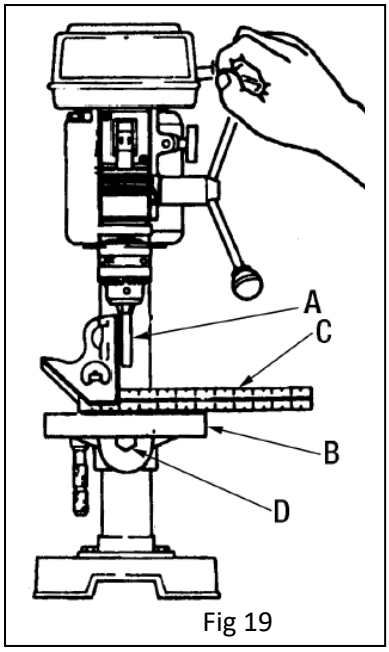


Fig 19

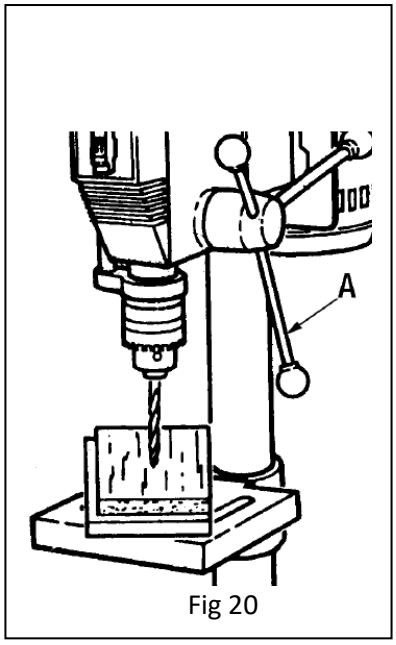


Fig 20

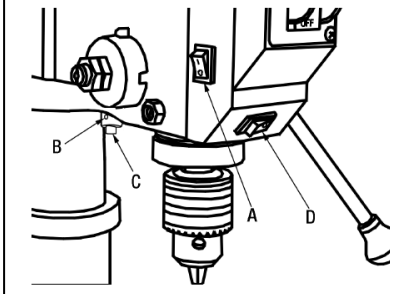


Fig 21

MAINTENANCE

LUBRICATION

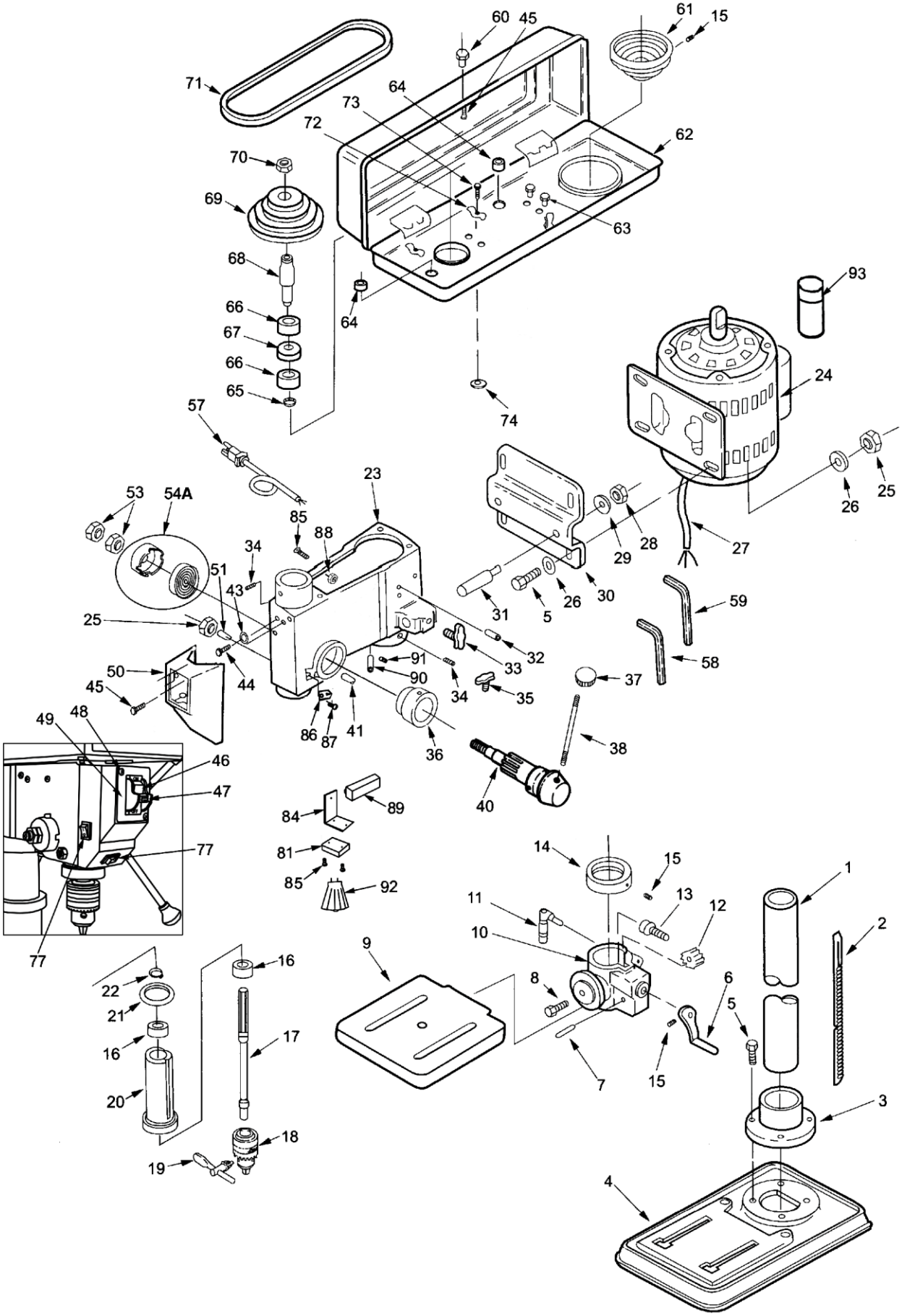
All of the ball bearings are packed with grease at the factory. They require no further lubrication. Periodically lubricate the splines (Grooves) in the spindle and the rack (Teeth of the quill).

WARNING! For your own safety, turn the switch “OFF” and remove the plug from the power source before maintaining or lubricating your drill press.

Frequently blow out any dust that may accumulate inside the motor. After operation, remove chips or dirt on the machine and apply a coat of furniture-type paste wax to the table and at the column, this will help keep the surfaces clean and free of rust.

PROBLEM	PROBABLE CAUSE	SOLUTION
Noisy operation.	1. Incorrect belt tension. 2. Dry spindle. 3. Loose spindle pulley. 4. Loose motor pulley.	1. Adjust the tension. 2. Lubricate the spindle. 3. Tighten the retaining nut on the pulley as needed. 4. Tighten the set screws which hold the puleys in place.
Drill bit burns.	1. Incorrect speed. 2. Chips not comming out of hole. 3. Dull drill bit. 4. Feeding too slow. 5. Not lubricated.	1. Change the speed. 2. Retract the drill bit frequently to clear the chips. 3. Resharpen the drill bit. 4. Feeding too fast...allow the drill bit to cut. 5. Lubricate the drill bit with cutting or motor oil.
Wood splinters on underside of workpiece.	1. No “Back-up material” under the workpiece.	1. Support the workpiece or clamp it.
Workpiece torn loose from hand.	1. Not supported or clamped properly.	1. Support the workpiece or clamp it.
Drill bit binds in workpiece.	1. Workpiece is pinching the drill bit or there is an excessive feeding pressure. 2. Improper belt tension.	1. Support the workpiece or clamp it. 2. Adjust the tension of the belt.
Excessive drill bit wobbling.	1. Bent drill bit. 2. Worn spindle bearings. 3. Drill bit is not properly installed in the chuck. 4. Chuck not properly installed.	1. Use a straight drill bit. 2. Replace the bearings. 3. Install drill bit properly. 4. Install chuck properly.
Quill returns too fast or too slow.	1. Spring has improper tension.	1. Adjust the spring tension.
Chuck will not stay attached to the spindle. It falls off when trying to install it.	1. Dirt, grease or oil on the tapered inside surface of the chuck or on the spindle tapered surface.	1. Using a household detergent, clean the tapered surfaces of the chuck and the spindle to remove the dirt, grease and oil.

EXPLODED VIEW



PARTS LIST

WARNING! When servicing, use only original equipment replacement parts. The use of any other parts may create a safety hazard or cause damage to the tool. Any attempt to repair or replace electrical parts on this saw may create a safety hazard unless repairs are performed by a qualified technician. For more information, call the Toll-free Helpline, at 1-866-349-8665.

Key#	Part #	Part Name	Qty
1	1334-100-001	Column	1
2	1334-100-002	Rack	1
3	1334-100-003	Column support	1
4	1334-100-004	Table	1
5	1334-100-005	Hex. Bolt	8
6	1334-100-006	Crank handle	1
7	1334-100-007	Gear shaft	1
8	1334-100-008	Hex.Bolt	1
9	1334-100-009	Table	1
10	1334-100-010	Table support w/ scale	1
11	1334-100-011	Lock handle	1
12	1334-100-012	Helical gear	1
13	1334-100-013	Elevation worm gear	1
14	1334-100-014	Rack collar	1
15	1334-100-015	Set screw	2
16	1334-100-016	Ball bearing	2
17	1334-100-017	Spindle shaft	1
18	1334-100-018	Chuck JT33	1
19	1334-100-019	Chuck key	1
20	1334-100-020	Quill	1
21	1334-100-021	Gasket	1
22	1334-100-022	Retaining ring/shaft	1
23	1334-100-023	Head	1
24	1334-100-024	Motor	1
25	1334-100-025	Hex. nut	5
26	1334-100-026	Washer	8
27	1334-100-027	Motor cord	1
28	1334-100-028	Hex. nut	2
29	1334-100-029	Spring washer	2
30	1334-100-030	Motor bracket	1
31	1334-100-031	Motor bracket support	2
32	1334-100-032	Spring pin	2
33	1334-100-033	Knob	2
34	1334-100-034	Set screw	3

Key#	Part #	Part Name	Qty
35	1334-100-035	Depth lock handle	1
36	1334-100-036	Depth stop w/scale	1
37	1334-100-037	Knob	3
38	1334-100-038	Rod	3
40	1334-100-040	Pinion shaft assembly	1
41	1334-100-041	Stop pin	1
43	1334-100-043	Tooth washer	2
44	1334-100-044	Pan hd. screw	2
45	1334-100-045	Pan hd. screw	2
46	1334-100-046	Power switch	1
47	1334-100-047	Switch safety key	1
48	1334-100-048	Self tapping screw	3
49	1334-100-049	Switch plate	1
50	1334-100-050	Switch box	1
51	1334-100-051	Special screw	1
53	1334-100-053	Hex. nut	3
54A	1334-100-054A	Spring cap assembly	1
57	1334-100-057	Power cord	1
58	1334-100-058	Hex. key 3mm	1
59	1334-100-059	Hex. key 4mm	1
60	1334-100-060	Knob	1
61	1334-100-061	Motor pulley	1
62	1334-100-062	Pulley guard	1
63	1334-100-063	Pan hd flange screw	4
64	1334-100-064	Rubber bushing	2
65	1334-100-065	Retaining ring/shaft	1
66	1334-100-066	Ball bearing	2
67	1334-100-067	Spacer	1
68	1334-100-068	Pulley insert	1
69	1334-100-069	Spindle pulley	1
70	1334-100-070	Hex. nut	1
71	1334-100-071	Belt	1
72	1334-100-072	Cord clamp	3
73	1334-100-073	Screw	3
74	1334-100-074	Foam washer	4
77	1334-100-077	Light/laser switch	2

Key#	Part #	Part Name	Qty
81	1334-100-081	Light fixture	1
84	1334-100-084	Support plate	1
85	1334-100-085	Pan hd screw	1
86	1334-100-086	Pointer	1
87	1334-100-087	Pan hd screw	1
88	1334-100-088	Hex. nut	3
89	1334-100-089	Laser board	1
90	1334-100-090	Laser	2
91	1334-100-091	Set screw	2
92	1334-100-092	Halogen bulb MR11 20W	1
93	1334-100-093	Capacitor	1

WARRANTY

BENCHMARK 10” 5 SPEED DRILL PRESS

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. 3-year warranty for the battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs.

This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

10” 5 SPEED DRILL PRESS

BENCHMARK™

1334-100
Made in China

BENCHMARK TOOLS CANADA
ST. JACOBS, ONTARIO N0B 2N0

CUSTOMER SERVICE/TECH SUPPORT
1-866-349-8665

LIMITED 5 YEAR* WARRANTY

* This Benchmark ™ product carries a five (5) year LIMITED warranty against defects in workmanship and materials. The charger and batteries carry a three (3) LIMITED warranty.

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READ ALL INSTRUCTIONS BEFORE FIRST USE. KEEP THIS MANUAL FOR FUTURE REFERENCE. KEEP AWAY FROM CHILDREN.

WEAR CSA APPROVED EYE PROTECTION

WEAR EAR PROTECTION

WEAR A FACE MASK