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King Canada KC-116FC

King Canada KC-116FC 16 Speed Dual Laser Drill Press

INSTRUCTION MANUAL

Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your King Canada KC-116FC 16 Speed Dual Laser Drill Press. Please read all instructions carefully before assembly and use to ensure proper function and safety.



Image: The King Canada KC-116FC 16 Speed Dual Laser Drill Press, showcasing its robust design and key features.

Safety Information

Always wear appropriate safety gear, including eye protection, when operating the drill press. Ensure the workpiece is securely clamped before drilling. Keep hands clear of moving parts. Disconnect power before making adjustments or performing maintenance. Refer to local safety regulations for additional guidelines.

Setup

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage. Retain packaging for future transport or storage.
2. **Assembly:** Assemble the heavy-duty cast-iron table and base according to the diagrams provided in the separate assembly guide. Ensure all fasteners are tightened securely.
3. **Power Connection:** Connect the drill press to a standard 120 Volts power outlet. Verify that the power source matches the tool's requirements.

4. **Chuck Installation:** Install the 5/8" drill chuck onto the spindle. Use the provided chuck key to tighten it firmly. Ensure the chuck key is removed before operating the machine.
5. **Laser Guide Adjustment:** The drill press features dual intersecting adjustable laser guides. Adjust the laser lines to intersect precisely at the desired drilling point on your workpiece.
6. **Halogen Light:** Install the included halogen light bulb into the head of the drill press. This provides illumination for your work area.

Operating Instructions

1. **Powering On/Off:** Use the main power switch to turn the drill press on or off.
2. **Speed Adjustment:** This drill press offers 16 speeds, ranging from 220 to 3,600 spindle RPM. Adjust the belt position on the pulleys to select the appropriate speed for your material and drill bit size. Refer to the speed chart located inside the belt cover.
3. **Depth Stop Adjustment:** Utilize the positive depth stop for quick and easy adjustment of drilling depth. Loosen the locking nut, set the desired depth, and re-tighten the nut.
4. **Table Tilting:** The table can be tilted up to 45° for angular drilling. Loosen the table locking bolts, adjust to the desired angle, and securely tighten the bolts.
5. **Using the Laser Guide:** Activate the dual laser guides to pinpoint the exact drilling location. Align the intersecting laser lines with your mark on the workpiece.
6. **Workpiece Securing:** Always secure your workpiece firmly to the table using clamps or a vise to prevent movement during drilling.

Using a Cross Slide Vise (Accessory)

For enhanced precision and control, especially when drilling multiple holes or performing milling-like operations, a cross-slide vise can be used with your drill press. The following video demonstrates the assembly and operation of a typical 3-inch cross-slide vise.

Your browser does not support the video tag.

Video: Demonstration of a 3-inch cross-slide vise, a useful accessory for precise drilling with the King Canada KC-116FC drill press. This video shows how to assemble the handle and operate the vise's X and Y axis movements.

Maintenance

- **Cleaning:** Regularly clean the drill press, especially the table and column, to remove dust, chips, and debris. Use a dry cloth or brush.
- **Lubrication:** The spindle is supported by high-quality ball bearings and requires minimal lubrication. Consult a qualified technician for any internal lubrication needs.
- **Fastener Checks:** Periodically check all nuts, bolts, and screws for tightness. Re-tighten as necessary to ensure safe operation.
- **Halogen Light Replacement:** If the halogen light bulb burns out, replace it with a bulb of the same type and wattage. Ensure the drill press is unplugged before replacement.

Troubleshooting

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Drill press does not start	No power, faulty switch, motor issue	Check power connection, circuit breaker. Inspect switch for damage. If motor issue, contact service.
Inaccurate drilling	Loose chuck, loose workpiece, misaligned laser	Ensure chuck is tight, workpiece is clamped. Re-adjust laser guides.
Excessive vibration	Loose components, unbalanced drill bit	Check all fasteners. Ensure drill bit is properly seated and not bent.
Spindle not rotating at selected speed	Incorrect belt tension or position	Adjust belt tension and ensure it is correctly seated on the pulleys for the desired speed.

Specifications

- **Model:** KC-116FC
- **Motor:** 7.5 Amp.
- **Voltage:** 120 Volts
- **Number of Speeds:** 16
- **Spindle RPM:** 220-3,600
- **Drill Bit Capacity:** Up to 5/8" shanked
- **Table Tilt:** 45°
- **Material:** Metal (Heavy-duty cast-iron table and base)
- **Product Dimensions:** 54.7L x 20.6W x 10.4H Centimetres
- **Item Weight:** 54.4 kg
- **Special Features:** Dual intersecting adjustable laser guides, Halogen light, Positive depth stop
- **Included Components:** 5/8" drill chuck, chuck key, chuck key holder

Warranty and Support

King Canada products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official King Canada website. For technical support, replacement parts, or service inquiries, please contact King Canada customer service.

