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GarveeTech dGumiZEBMtTJLQblVfc_3wyPLq9eG

GarveeTech 13-inch 7.5 Amp Variable Speed Benchtop Drill Press Instruction Manual

Model: dGumiZEBMtTJLQblVfc_3wyPLq9eG

Introduction

This manual provides essential instructions for the safe operation, assembly, maintenance, and troubleshooting of your GarveeTech 13-inch 7.5 Amp Variable Speed Benchtop Drill Press. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

Important Safety Information

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- **Read All Instructions:** Familiarize yourself with the drill press and its operation before use.
- **Wear Eye Protection:** Always wear safety glasses or a face shield when operating the drill press.
- **Secure Workpiece:** Always clamp the workpiece securely to the drill press table. Never hold it by hand.
- **Remove Adjusting Keys and Wrenches:** Before turning on the drill press, ensure all adjusting keys and wrenches are removed from the machine.
- **Keep Work Area Clean:** Cluttered areas invite accidents.
- **Avoid Dangerous Environment:** Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit.
- **Keep Children Away:** All visitors should be kept a safe distance from the work area.
- **Use Proper Extension Cord:** Ensure extension cords are in good condition and rated for outdoor use if applicable.
- **Do Not Force Tool:** The tool will do the job better and safer at the rate for which it was designed.
- **Disconnect Power:** Always disconnect the drill press from the power source before making adjustments, changing accessories, or performing maintenance.



Image Description: This image shows a close-up of the drill press head, highlighting a warning label with safety instructions and the adjustable depth stop mechanism. Always read and adhere to all warning labels on the machine.

Product Overview

The GarveeTech 13-inch Benchtop Drill Press is designed for precise drilling operations in various materials such as wood, metal, and plastics. It features a powerful 7.5 Amp motor, variable speed control, and a robust cast iron construction for stability and durability.



Image Description: An overall view of the GarveeTech 13-inch Benchtop Drill Press, showcasing its main components including the base, column, table, head assembly, and motor. Various accessories like hex wrenches, a chuck key, and a drift key are also visible.

Key Components:

- **Motor:** 7.5 Amp induction motor for consistent power.
- **Spindle:** Holds the drill chuck and rotates the drill bit.
- **Chuck:** Secures the drill bit. Capacity: 5/8 inch.

- **Spindle Guard:** Transparent guard for safety during operation.
- **Work Table:** Adjustable height and tilt (up to 45 degrees left/right).
- **Base:** Heavy cast iron base for stability.
- **Depth Stop:** For precise control over drilling depth.
- **Speed Control:** Variable speed from 288 to 3084 RPM.

Setup and Assembly

Follow these steps to properly assemble and prepare your drill press for operation.

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage.
2. **Base and Column Assembly:** Securely attach the column to the heavy cast iron base. Ensure all fasteners are tightened. The sturdy cast iron base helps prevent movement during operation and includes bolt holes for mounting to a workbench.
3. **Head Assembly:** Mount the head assembly onto the top of the column.
4. **Work Table Installation:** Install the work table onto the column. The table can be adjusted for height and angle.
5. **Installing the Chuck:** Clean the tapered surfaces of the spindle and chuck. Place the chuck onto the spindle with a firm push. Use a rubber mallet and a block of wood to gently tap the chuck into place if needed, ensuring a secure fit.



Image Description: This diagram illustrates three key features: the robust cast iron base designed for stability, the transparent telescoping spindle guard for safety, and the internal belt system for adjusting drilling speeds.

Chucking a Drill Bit:

1. **Select Bit:** Choose the appropriate drill bit for your material and desired hole size.
2. **Insert Bit:** Open the chuck jaws using the chuck key. Insert the shank of the drill bit into the chuck as far as it will go, ensuring it is centered.

3. **Tighten Chuck:** Tighten the chuck jaws firmly around the drill bit using the chuck key. Ensure the bit is secure to prevent slippage during operation.



Image Description: A close-up view of a hand inserting a drill bit into the drill press chuck. The transparent spindle guard is visible, emphasizing the importance of securing the bit properly before operation.

Operating Instructions

Powering On/Off:

The drill press is equipped with a safety power switch. To turn on, press the green 'ON' button. To turn off, press the red 'OFF' button. For added safety, a removable safety key can be used to prevent unauthorized operation.



Image Description: A hand is shown removing the yellow safety key from the red power switch of the drill press, demonstrating a safety feature to prevent accidental or unauthorized use.

Adjusting Speed:

The GarveeTech drill press features variable speed control from 288 to 3084 RPM. Adjusting the speed is crucial for different materials and drill bit sizes. Refer to the speed chart (often located inside the belt cover) for recommended settings. To change speed, open the belt cover and adjust the belt position on the pulleys. Ensure the machine is unplugged before adjusting belts.



Image Description: This image provides a close-up view of the internal belt and pulley system of the drill press, illustrating how the belt can be repositioned to achieve different operating speeds.

Adjusting Table Height and Tilt:

The work table can be adjusted vertically along the column and tilted up to 45 degrees to the left or right for angled drilling. Loosen the table locking handle to adjust height, and use a wrench to loosen the table pivot bolt for tilting. Always re-tighten all locking mechanisms before operation.



Image Description: A hand is shown operating the crank to adjust the height of the drill press work table, demonstrating the adjustable table height feature.



Image Description: This image displays the drill press work table tilted to an angle, illustrating its capability for angled drilling operations. The text overlay indicates it tilts up to 45 degrees right and left.

Setting Depth Stop:

The adjustable depth stop allows for consistent drilling depth. Loosen the depth stop lock, set the desired depth, and then re-tighten the lock. This prevents drilling deeper than intended.



Image Description: A detailed view of the depth stop adjustment mechanism on the drill press, showing the scale and locking knob used

to set precise drilling depths.

Drilling Operation:

1. **Prepare Workpiece:** Mark the drilling location on your workpiece.
2. **Secure Workpiece:** Clamp the workpiece firmly to the drill press table. Use a drill press vise or clamps.
3. **Position Workpiece:** Adjust the table height and position the workpiece so the drill bit aligns with your mark.
4. **Start Drill Press:** Turn on the drill press.
5. **Begin Drilling:** Slowly lower the drill bit into the workpiece using the feed handle. Apply steady, even pressure. Do not force the drill.
6. **Clear Chips:** Periodically raise the drill bit to clear chips, especially when drilling deep holes.
7. **Complete Hole:** Once the desired depth is reached, retract the drill bit completely from the workpiece.
8. **Turn Off:** Turn off the drill press and wait for the spindle to stop completely before removing the workpiece.



Image Description: A person is shown operating the GarveeTech drill press, drilling into a wooden plank. The image highlights the drilling process and the machine's capability to handle various materials. The text overlay indicates speeds from 288-3084 RPM.

Maintenance

Regular maintenance ensures the longevity and safe operation of your drill press.

- **Disconnect Power:** Always unplug the drill press before performing any maintenance.
- **Cleaning:** Keep the machine clean and free of dust and debris. Use a brush or vacuum to remove chips from the table and base.
- **Lubrication:** Periodically apply a light coat of machine oil to moving parts, such as the column and quill.
- **Belt Inspection:** Regularly check the drive belts for wear, cracks, or damage. Replace worn belts promptly. Ensure proper belt tension for optimal performance and to prevent slippage.
- **Chuck Maintenance:** Keep the chuck jaws clean. If the chuck becomes difficult to open or close, clean it thoroughly and apply a small amount of lubricant.
- **Fastener Check:** Periodically check all nuts, bolts, and screws for tightness. Tighten any loose fasteners.

Troubleshooting

This section addresses common issues you might encounter with your drill press.

- **Drill Press Does Not Start:**
  - Check if the power cord is securely plugged into a working outlet.
  - Ensure the safety key is fully inserted into the power switch.
  - Check for tripped circuit breakers or blown fuses.
- **Excessive Vibration or Noise:**
  - Ensure the drill press is securely mounted to a stable surface.
  - Check if the drill bit is bent or damaged; replace if necessary.
  - Verify that the chuck is properly seated on the spindle.
  - Inspect drive belts for wear or improper tension. Adjust or replace as needed.
- **Drill Bit Wobbles or Runs Out of True:**
  - Ensure the drill bit is correctly inserted and tightened in the chuck.
  - Check if the drill bit itself is bent or damaged.
  - Inspect the chuck for damage or wear.
- **Motor Overheating:**
  - Reduce the feed pressure.
  - Ensure the correct speed is selected for the material being drilled.
  - Allow the motor to cool down between heavy uses.
- **Inaccurate Drilling Depth:**
  - Ensure the depth stop is correctly set and securely locked.

Specifications

Detailed technical specifications for the GarveeTech 13-inch Benchtop Drill Press.

Feature	Specification
Brand	GarveeTech
Model Number	dGumiZEBMtTJLQblVfc_3wyPLq9eG
Power Source	Corded Electric
Voltage	120 V
Amperage	7.5 Amps
Maximum Power	900 Watts
Swing	13 inches
Chuck Capacity	5/8 inches
Spindle Travel	3.2 inches
Variable Speed Range	288 - 3084 RPM
Number of Speeds	12 (via belt adjustment)
Column Diameter	3 inches
Base Size	18 x 11 inches
Table Size	10 x 10 inches
Table Tilt	45 degrees Left/Right
Product Dimensions (L x W x H)	89 x 51 x 30 cm (35.04 x 20.08 x 11.81 inches)
Product Weight	48.26 kg (106.4 lbs)
Components Included	Drill press, M3 Hex 'L' Wrench, M4 Hex 'L' Wrench, M5 Hex 'L' Wrench, Drift Key, Manual

Warranty and Support

For warranty information, technical support, or to inquire about replacement parts, please contact GarveeTech customer service. Retain your purchase receipt as proof of purchase for any warranty claims.
Please refer to the official GarveeTech website or your purchase documentation for the most current warranty terms and contact information.

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