

BLACK+DECKER TM555K

BLACK+DECKER 13mm Impact Drill Model TM555K User Manual

Model: TM555K | Voltage: 110V

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your BLACK+DECKER 13mm Impact Drill, Model TM555K. Please read these instructions thoroughly before using the tool and retain them for future reference. This impact drill is designed for drilling in masonry, wood, and metal.

2. GENERAL SAFETY INSTRUCTIONS

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

2.1 Work Area Safety

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2 Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

2.3 Personal Safety

- Always wear eye protection. Use safety glasses or goggles.

- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.

3. PRODUCT OVERVIEW

The BLACK+DECKER TM555K Impact Drill is a versatile tool designed for various drilling tasks. Familiarize yourself with its components before operation.



Figure 1: BLACK+DECKER TM555K Impact Drill and included accessories.

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Figure 2: Front view of the drill, highlighting the chuck.





Figure 3: Detail of the chuck and mode selector switch.



Figure 4: Detail of the trigger, lock-on button, and direction switch.

Key Components:

- **Chuck:** Holds the drill bit securely.
- **Impact/Drill Mode Selector:** Switches between rotary drilling and hammer drilling.
- **Auxiliary Handle:** Provides additional grip and control.
- **Depth Stop:** Allows for precise drilling depth.
- **Trigger Switch:** Activates the drill and controls speed.
- **Lock-on Button:** For continuous operation.
- **Forward/Reverse Switch:** Changes the rotation direction.

4. SETUP

4.1 Attaching the Auxiliary Handle

1. Loosen the auxiliary handle by rotating it counter-clockwise.
2. Slide the handle onto the front of the drill body.

3. Adjust the handle to a comfortable position for optimal control.
4. Tighten the handle by rotating it clockwise until secure.

4.2 Installing the Depth Stop

1. With the auxiliary handle attached, insert the depth stop rod through the hole in the handle.
2. Adjust the depth stop to the desired drilling depth. The distance from the tip of the drill bit to the end of the depth stop indicates the drilling depth.
3. Secure the depth stop by tightening the auxiliary handle.



Figure 5: Drill with auxiliary handle and depth stop correctly installed.

4.3 Inserting and Securing Drill Bits

1. Ensure the drill is unplugged from the power source.
2. Insert the chuck key into one of the holes on the chuck.
3. Rotate the chuck key counter-clockwise to open the chuck jaws.
4. Insert the drill bit fully into the chuck, ensuring it is centered.
5. Rotate the chuck key clockwise to tighten the chuck jaws firmly around the drill bit. Tighten in all three holes for maximum grip.
6. Remove the chuck key before operating the drill.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off and Speed Control

- To start the drill, press the trigger switch. The speed is variable, meaning the harder you press the trigger, the faster the drill bit will rotate.
- For continuous operation, press the trigger switch fully and then press the lock-on button. Release the trigger to engage the lock.
- To stop the drill from continuous operation, press the trigger switch again.
- To stop the drill from momentary operation, simply release the trigger switch.

5.2 Selecting Drilling Mode (Impact/Drill)

The mode selector switch is located on the top of the drill body, near the chuck.

- For drilling in wood, metal, or plastic, set the selector to the **drill symbol** (rotary only).
- For drilling in masonry or concrete, set the selector to the **hammer symbol** (impact drilling).

5.3 Changing Rotation Direction (Forward/Reverse)

The forward/reverse switch is located above the trigger switch.

- To drill or drive screws, push the switch to the **left** for forward rotation.
- To remove screws or free a jammed drill bit, push the switch to the **right** for reverse rotation.
- Ensure the drill is completely stopped before changing the direction of rotation.

5.4 Drilling Tips

- Always use sharp drill bits appropriate for the material being drilled.
- Apply steady, even pressure. Do not force the drill.
- For metal drilling, use a center punch to mark the hole location and apply cutting oil to cool the bit.
- For masonry drilling, start with a slow speed to create a pilot hole, then increase speed and apply impact mode.
- When drilling large holes, start with a smaller pilot hole.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your drill.

6.1 Cleaning

- Always unplug the tool before cleaning.
- Use a soft brush or dry cloth to remove dust and debris from the ventilation openings.
- Do not use water or chemical cleaners.

6.2 Inspection

- Periodically inspect the power cord for damage. If damaged, have it replaced by a qualified service agent.
- Check the chuck for wear or damage.

6.3 Storage

When not in use, store the drill and its accessories in the provided carrying case in a dry, secure location, out of reach of children.



Figure 6: Proper storage of the drill in its carrying case.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drill does not start.	No power supply.	Check power outlet, fuse, or circuit breaker. Ensure cord is properly plugged in.
Loss of power during operation.	Overload or motor overheating.	Reduce pressure on the drill. Allow the tool to cool down. Ensure ventilation slots are clear.
Excessive vibration or unusual noise.	Damaged drill bit or internal issue.	Replace the drill bit. If the problem persists, discontinue use and contact customer service.
Drill bit jams in material.	Incorrect drilling technique or material.	Switch to reverse rotation to free the bit. Ensure proper bit selection and technique for the material.

8. SPECIFICATIONS

Feature	Specification
Model	TM555K
Manufacturer	BLACK+DECKER
Part Number	TM555KBR
Voltage	110V
Power (Watts)	560W
Maximum Speed	2800 RPM
Chuck Size	13mm (1/2 inch)
Special Features	Variable Speed, Impact Function
Included Components	1 Plastic Case, 1 Drill, Auxiliary Handle, Depth Stop, Chuck Key
Weight	2.56 kg
Dimensions (Packaging)	34.4 x 29.6 x 10.4 cm

9. WARRANTY AND SUPPORT

This BLACK+DECKER product is covered by a **1-year warranty** from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.



Figure 7: Product packaging indicating a 1-year warranty.

For technical assistance, spare parts, or warranty service, please contact BLACK+DECKER customer support. Refer to the official BLACK+DECKER website or product packaging for contact information specific to your region.