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Makita HP1641K1X

Makita HP1641K1X Hammer Drill User Manual

Model: HP1641K1X

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita HP1641K1X Hammer Drill. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.



Figure 1.1: Makita HP1641K1X Hammer Drill kit, including the drill, side handle, depth gauge, and a set of drill bits, all neatly organized within its durable carrying case.

2. Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

General Power Tool Safety Warnings

- **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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Stay alert, watch what you are doing and use common sense when operating a power tool. Always wear eye protection and hearing protection. Use dust mask, non-skid safety shoes, hard hat, or hearing protection for appropriate conditions.

- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.

3. Product Components

The Makita HP1641K1X Hammer Drill kit typically includes the following components:

- Makita HP1641K1X Hammer Drill unit
- Side Handle
- Depth Gauge
- Keyless Chuck
- Carrying Case
- Set of drill bits (3 for wood, 3 for metal, 3 for masonry)



Figure 3.1: All components of the Makita HP1641K1X kit laid out, including the hammer drill, side handle, depth gauge, and the included set of drill bits.

4. Setup

Attaching the Side Handle

The side handle provides additional control and stability during operation. To attach:

1. Loosen the grip on the side handle by twisting it counter-clockwise.
2. Slide the handle onto the front of the drill, positioning it to your preference.
3. Tighten the grip by twisting clockwise until secure.

Inserting Drill Bits

The HP1641K1X features a keyless chuck for quick and easy bit changes.

1. Ensure the drill is unplugged from the power source.
2. Twist the chuck counter-clockwise to open the jaws.
3. Insert the drill bit fully into the chuck.
4. Twist the chuck clockwise to tighten the jaws securely around the bit. Ensure the bit is centered and firmly gripped.

5. Operating Instructions

Powering On/Off and Speed Control

The drill is equipped with an electronic switch for variable speed control. The speed and force are variable depending on how much the trigger is pressed.

- To start the drill, press the trigger switch.
- To increase speed, press the trigger further.
- To stop the drill, release the trigger switch.

Selecting Drilling Mode (Hammer/Rotation)

The HP1641K1X allows you to switch between rotation-only mode for drilling into wood or metal, and hammer-drilling mode for masonry.

- Locate the percussion insertion/exclusion selector switch on the top of the drill.
- Slide the switch to the hammer icon for hammer drilling (e.g., concrete, brick).
- Slide the switch to the drill bit icon for rotation-only drilling (e.g., wood, metal).


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Figure 5.1: The Makita HP1641K1X Hammer Drill being used to drill into a concrete block, demonstrating its capability for masonry work.

Drilling Capacities

- Masonry drilling: 16mm
- Metal drilling: 13mm
- Wood drilling: 30mm

6. Maintenance

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

Cleaning

- Always unplug the tool before cleaning.
- Use a soft, damp cloth to wipe down the exterior of the drill. Do not use harsh chemicals or abrasive cleaners.
- Keep the ventilation openings clear of dust and debris to prevent overheating. Use compressed air if necessary.

Storage

When not in use, store the drill in a clean, dry place, out of reach of children. The included carrying case is ideal for storage and transport.



Figure 6.1: The robust carrying case for the Makita HP1641K1X, featuring multiple compartments for organized storage of the drill and its accessories.

7. Troubleshooting

If you encounter issues with your drill, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drill does not start	No power supply; Faulty power cord/plug; Trigger switch issue	Check power outlet; Inspect cord for damage; Contact service center
Loss of power during operation	Overheating; Carbon brushes worn out	Allow drill to cool; Have carbon brushes replaced by qualified technician
Excessive vibration or noise	Loose drill bit; Damaged internal components	Ensure bit is securely tightened; Contact service center
Chuck not holding bit	Chuck jaws worn or damaged	Replace chuck; Contact service center

For issues not listed or if solutions do not resolve the problem, please contact an authorized Makita service center.

8. Specifications

Feature	Specification
Model Number	HP1641K1X
Power Consumption	680 Watts
Strokes per Minute (SPM)	0 - 44,800 c/min
No-load Speed (RPM)	0 - 2,800 g/min
Drilling Capacity (Masonry)	16mm
Drilling Capacity (Metal)	13mm
Drilling Capacity (Wood)	30mm
Chuck Capacity	1.5 - 13mm (Keyless Chuck)
Cable Length	2m
Weight (EPTA)	1.9kg (4.4 pounds)
Dimensions (LxWxH)	303x72x222mm
Power Source	Electric with wire
Material	Aluminium
UPC	088381604345



Figure 8.1: Dimensions of the Makita HP1641K1X carrying case, measuring approximately 13 inches (33 cm) in height.

9. Warranty and Support

Makita products are manufactured under strict quality control standards. For warranty information, please refer to the warranty card included with your product or visit the official Makita website. Keep your purchase receipt as proof of purchase for warranty claims.

For technical support, spare parts, or service, please contact your local authorized Makita service center. You can find contact information on the official Makita website or through your product retailer.

Protection plans are available for extended coverage:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly plan covering eligible purchases)

These plans offer additional peace of mind beyond the standard manufacturer's warranty.

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