ENGINDOT PID01A

ENGINDOT PID01A Hammer Drill Instruction Manual

Model: PID01A

1. Important Safety Instructions

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

- **Work Area Safety:** Keep your 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 use any adapter plugs with earthed (grounded) power tools. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **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.
- **Maintenance:** Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.

2. Product Overview

The ENGINDOT PID01A is a versatile hammer drill designed for various drilling tasks in wood, metal, and masonry. It features a powerful motor, variable speed control, and a robust 13mm keyed chuck.

2.1 Components

Figure 2.1: Overview of the ENGINDOT PID01A Hammer Drill, highlighting its adjustable 13mm chuck, variable speed control, and dual operating modes (hammer and drill). Dimensions are approximately 260mm (10.24 inches) in length and 190mm (7.48 inches) in height.

Figure 2.2: Internal view of the drill's high-quality full copper core motor, emphasizing its efficiency, powerful output, and variable no-load speed range of 0-2800 RPM.

- **13mm Keyed Chuck:** Securely holds drill bits up to 13mm in diameter.
- **Variable Speed Trigger:** Allows for precise speed control based on material and application.
- **Mode Selector Switch:** Easily switch between drill mode for wood/metal and hammer drill mode for masonry.
- **Auxiliary Handle:** Provides additional grip and control, adjustable 360 degrees.
- **Depth Gauge:** For setting precise drilling depths.

2.2 Specifications

Feature	Specification
Model Number	PID01QA
Power Source	Corded Electric
Voltage	230 Volts
Power Output	710 Watts
Chuck Size (Max)	13 mm
Drill Type	Hammer Drill
Drilling Capacity (Wood)	25 mm
Drilling Capacity (Metal)	13 mm
Product Dimensions (L x W x H)	26 x 19 x 65 cm
Weight	2.28 kg (approx. 4.5 pounds)

Figure 2.3: Package contents, showing the drill, user manual, a set of drill bits, and the detachable auxiliary handle.

3. Setup

3.1 Attaching the Auxiliary Handle

The auxiliary handle provides better control and stability during operation. It can be adjusted 360 degrees for optimal comfort and leverage.

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 your desired position.
4. Tighten the handle by rotating it clockwise until secure.

Figure 3.1: The auxiliary handle can be rotated 360 degrees. Rotate counter-clockwise to loosen and adjust.

3.2 Installing Drill Bits

Always ensure the drill is unplugged before changing bits.

1. Insert the chuck key into one of the holes on the chuck.

2. Rotate the chuck key counter-clockwise to open the chuck jaws.
3. Insert the desired drill bit into the chuck, ensuring it is centered and fully seated.
4. Rotate the chuck key clockwise to tighten the chuck jaws securely around the drill bit. Remove the chuck key before operating the drill.

3.3 Setting the Depth Gauge

The depth gauge helps achieve consistent drilling depths.

1. Loosen the auxiliary handle.
2. Slide the depth gauge through the hole in the auxiliary handle.
3. Adjust the depth gauge so that the desired drilling depth is achieved when the tip of the gauge touches the workpiece.
4. Tighten the auxiliary handle to secure the depth gauge in place.

Figure 3.2: The depth gauge is used to fix the auxiliary handle for precise drilling depth, particularly useful when drilling into concrete.

4. Operating Instructions

Before operating, ensure all safety precautions are followed and the drill is properly set up.

4.1 Powering On/Off and Speed Control

- Plug the drill into a suitable power outlet (230V).

- To start the drill, press the trigger switch.
- The drill features variable speed control. The harder you press the trigger, the faster the drill bit will rotate.
- To stop the drill, release the trigger switch.
- For continuous operation, press the trigger and then press the lock-on button. To release, press the trigger again.

4.2 Mode Selection

The drill offers two operating modes: Drill mode and Hammer Drill mode.

- **Drill Mode (⚒):** Use this mode for drilling into wood, metal, plastics, and for driving screws. The hammer function is disengaged.
- **Hammer Drill Mode ( ):** Use this mode for drilling into masonry, concrete, and brick. The hammer action provides additional impact for faster drilling in hard materials.

Select the desired mode using the selector switch located on the top of the drill body.

4.3 Drilling in Different Materials

Figure 4.1: The drill is suitable for various materials, including concrete (hammer mode), steel (drill mode), and wood (drill mode).

Figure 4.2: Select the hammer function for drilling into concrete.

Figure 4.3: Select the drill function for drilling into steel.

Figure 4.4: Select the drill function for drilling into wood.

- **For Wood and Metal:** Use standard drill bits. Select "Drill" mode. Apply steady, even pressure. Use lower speeds for larger bits or harder materials.
- **For Concrete and Masonry:** Use masonry drill bits. Select "Hammer Drill" mode. Apply firm, consistent pressure. The hammer action will assist in breaking through hard materials.
- Always ensure the workpiece is securely clamped or held to prevent movement during drilling.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your ENGINDOT PID01A Hammer Drill.

- **Cleaning:** After each use, clean the drill with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Keep ventilation openings clear of dust and debris.
- **Chuck Care:** Periodically clean the chuck jaws to ensure proper gripping of drill bits. Apply a small amount of light machine oil to the chuck jaws if they become stiff.
- **Cord Inspection:** Regularly inspect the power cord for any signs of damage, cuts, or fraying. If damaged, have it repaired by a qualified technician.
- **Storage:** Store the drill in a dry, secure place, out of reach of children.

6. 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; damaged cord/plug; faulty switch.	Check power connection. Inspect cord/plug for damage. If damaged, seek professional repair.
Drill bit slips in chuck.	Chuck not tightened sufficiently; worn chuck jaws; incorrect bit type.	Ensure chuck is tightened with the chuck key. Clean chuck jaws. Use bits with proper shanks.
Excessive vibration or noise.	Bent drill bit; loose components; internal damage.	Replace bent drill bits. Check for loose parts. If problem persists, seek professional inspection.
Drill overheats.	Overloading the drill; blocked ventilation.	Reduce load. Ensure ventilation slots are clear. Allow drill to cool down.

For issues not listed here, please contact ENGINDOT customer support.

7. Warranty and Support

ENGINDOT products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official ENGINDOT website.

For technical support, spare parts, or service, please contact ENGINDOT customer service through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.