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> ARROWMAX Mini Electric Drill (SDS Mini) Instruction Manual

## ARROWMAX AM-199971

# ARROWMAX Mini Electric Drill (SDS Mini) Instruction Manual

Model: AM-199971

## 1. PRODUCT OVERVIEW

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The ARROWMAX Mini Electric Drill (SDS Mini) is a compact, rechargeable, and cordless tool designed for precision drilling and crafting tasks. It features a lightweight design, LED indicators, and variable speed settings for versatile applications.



Image: The ARROWMAX Mini Electric Drill, its aluminum storage case, and a set of drill bits.

### Key Features:

- **Precision Drilling:** Equipped with 4 shadowless lights and LED indicators for enhanced visibility during operation.
- **Adjustable Speed:** Features a rotation speed of 550 RPM and 5 speed settings for various materials and tasks.
- **Long-lasting Battery:** Integrated 350 mAh battery provides up to 120 minutes of working time on a single charge.
- **Portable Design:** Compact and lightweight, making it easy to transport and use in various locations.
- **Versatile Application:** Suitable for drilling in plastic, circuit boards, wood, leather, and other materials.

## 2. PACKAGE CONTENTS

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Verify that all items are present in the package:

# 4 Shadowless Light & LED



Image: The complete package contents, including the SDS Mini Electric Drill, a stand, a storage case, and 20 drill bits.

- SDS Mini Electric Drill
- Aluminum Storage Case
- Stand (for SDS Mini)
- 20 Drill Bits (various sizes)
- USB-C Charging Cable (Note: SDS Mini does not come with a cable, but supports USB-A to USB-C charging. Please use a compatible cable.)

## 3. SETUP

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### 3.1 Initial Charging

Before first use, fully charge the electric drill. The device is equipped with a 350 mAh battery. Use a compatible USB-A to USB-C charging cable (not included with SDS Mini) to connect the drill to a power source.

1. Connect the USB-C end of the cable to the drill's charging port.

2. Connect the USB-A end to a suitable USB power adapter (e.g., computer USB port, wall adapter).
3. The LED indicators on the drill will show the charging status. All LEDs illuminated indicate a full charge.
4. Charging time may vary. A full charge provides up to 120 minutes of operation.

**Note:** The SDS Mini does not support USB-C PD chargers; it only supports USB-A to USB-C charging.

### 3.2 Installing a Drill Bit

The drill comes with various drill bits for different applications. The chuck size is 2.35mm (3/32 inch), and the largest compatible drill bit is 2.3mm from Arrowmax.



Image: A selection of different sized drill bits compatible with the ARROWMAX Mini Electric Drill.

1. Ensure the drill is turned off before changing bits.
2. Unscrew the chuck collar at the tip of the drill counter-clockwise to open it.
3. Insert the desired drill bit into the chuck. Ensure it is seated firmly and straight.
4. Tighten the chuck collar clockwise until the drill bit is securely held. Do not overtighten.

5. Gently pull on the drill bit to confirm it is properly secured and will not slip during operation.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Powering On/Off

- To power on the drill, press and hold the power button until the LED indicators illuminate.
- To power off, press and hold the power button again until the LEDs turn off.

### 4.2 Adjusting Speed

The drill offers 5 speed settings. The default rotation speed is 550 RPM.

- While the drill is powered on, short press the power button to cycle through the available speed settings.
- Observe the LED indicators to determine the current speed setting.
- Select a suitable speed based on the material and the task. Lower speeds are generally for softer materials or delicate work, while higher speeds are for harder materials.

### 4.3 Drilling Techniques

The ARROWMAX Mini Electric Drill is ideal for precision tasks in various materials.



■ SDS MINI  
ELECTRIC DRILL

■ STAND (FOR SDS)

■ CASE (FOR SDS)

■ 20 DRILL BITS

Image: Demonstrating the precision drilling capability on a miniature component.

- **Material Preparation:** Ensure the workpiece is stable and secured to prevent movement during drilling. Mark the drilling point accurately.
- **Starting the Drill:** Hold the drill firmly. Position the drill bit directly over the marked point.
- **Applying Pressure:** Apply gentle, consistent pressure. Allow the drill to do the work; excessive force can damage the bit or the material.
- **Shadowless Lights:** Utilize the integrated 4 shadowless lights for clear visibility of the drilling area, especially for intricate work.
- **Cooling:** For prolonged drilling in harder materials, periodically withdraw the drill bit to allow for cooling and to clear debris.



## PORTABLE-SMALL SIZE

Image: The compact size of the drill allows for easy portability in a tool belt.

## 5. MAINTENANCE

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### 5.1 General Cleaning

- After each use, wipe down the drill body with a clean, dry cloth to remove dust and debris.
- Ensure the chuck area is free of any material residue. Use a small brush if necessary.
- Do not use harsh chemicals or abrasive cleaners, as these can damage the tool's finish.

### 5.2 Battery Maintenance

Proper battery care extends the lifespan of your device.

- To ensure the best user experience, fully charge the drill before its first use.
- Avoid completely draining the battery regularly. Recharge the drill when the battery indicator shows low power.
- If storing the drill for an extended period, charge it to approximately 50% capacity and store it in a cool, dry place.

Recharge every 3-6 months to prevent deep discharge.

- Do not expose the battery to extreme temperatures.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drill does not turn on.	Battery is depleted.	Charge the drill using a USB-A to USB-C cable.
Drill bit is loose or wobbles.	Chuck not tightened properly.	Ensure the drill is off, then re-tighten the chuck collar securely around the drill bit.
Drill is not charging.	Incorrect charger type or faulty cable.	Ensure you are using a USB-A to USB-C cable. The SDS Mini does not support USB-C PD chargers. Check if the cable is damaged.
How to check if the electric drill is charging?	Not sure about charging status.	While the electric drill is charging, you may press the button to check if it is charging. The LED indicators will show the charging progress.

## 7. SPECIFICATIONS

Feature	Detail
Brand	ARROWMAX
Model Number	AM-199971
Power Source	Battery Powered
Battery Capacity	350 mAh
Voltage	3.7 Volts
Amperage	1.5 Amperes
Max Rotation Speed	550 RPM
Number of Speeds	5
Chuck Size	2.35mm (3/32 inch)
Max Drill Bit Size	2.3mm (from Arrowmax)
Material	Metal
Product Dimensions (L x W x H)	18.9 x 8.7 x 2.9 centimeters
Item Weight	46 Grams
Special Feature	Variable Speed, 4 Shadowless Lights

## 8. WARRANTY AND SUPPORT

Warranty information for the ARROWMAX Mini Electric Drill (Model AM-199971) is not provided within this manual. For details regarding warranty coverage, returns, or technical support, please refer to the product packaging, the retailer's website where the product was purchased, or contact ARROWMAX customer service directly.

Always retain your proof of purchase for any warranty claims.