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› Sundpey 206-Piece Tool Kit with 12V Cordless Drill User Manual

Sundpey BYD117

Sundpey 206-Piece Tool Kit with 12V Cordless Drill User Manual

Model: BYD117

Brand: Sundpey

1. INTRODUCTION

Thank you for choosing the Sundpey 206-Piece Tool Kit with 12V Cordless Drill. This comprehensive tool set is designed for a wide range of household tasks, from simple repairs to DIY projects. It provides essential tools for home, garden, office, and house maintenance, ensuring you have the right tool for the job.

This manual provides important information on the safe operation, setup, maintenance, and troubleshooting of your new tool kit. Please read it thoroughly before first use and keep it for future reference.

2. PRODUCT OVERVIEW & WHAT'S INCLUDED

The Sundpey 206-Piece Tool Kit is a versatile collection of hand tools and a powerful 12V cordless drill, all organized within a robust, portable storage case. The kit is designed to meet various repair and assembly needs around the home.



Figure 2.1: Sundpey 206-Piece Tool Kit with all components.

2.1 Key Components

- **12V Cordless Power Drill:** Features an integrated LED light, two-speed settings (0-350 RPM and 0-1350 RPM), and a 3/8 inch (10mm) chuck. Ideal for drilling and driving screws.
- **1500 mAh Rechargeable Battery:** Provides 40-50 minutes of continuous operation on a full charge.
- **Charger:** For recharging the 12V battery in 2-3 hours.
- **Rip Claw Hammer:** For general hammering and nail removal.
- **Adjustable Wrench:** For tightening and loosening various sizes of nuts and bolts.
- **Linesman Pliers & Needle Nose Pliers:** Essential for gripping, bending, and cutting wires.
- **Tape Measure (3m/118in):** For accurate measurements.
- **Electrical Tape:** For insulation and bundling.
- **Hex Key Wrench Set (8pcs):** For hexagonal fasteners.
- **Screwdriver Bits (50mm & 25mm):** Various types for different screw heads.
- **Wood Screw Assortment Kit (134pcs):** A selection of common wood screws.

- **Screwdrivers (Slotted & Phillips):** Multiple sizes for manual screwdriving.
- **Screwdriver Handle:** For interchangeable bits.
- **Drill Bits:**
 - Tile Drill Bits (6mm & 8mm)
 - Twist Drill Bits (3mm, 4mm, 5mm, 6mm)
 - Wood Drill Bits (4mm, 5mm, 6mm)
- **Flexible Shaft (200mm):** For reaching screws in tight or awkward spaces.
- **1/4 Drive Sockets (9pcs) & Extension Bar:** For use with the drill or a separate ratchet.



Figure 2.2: All 206 components of the Sundpey Tool Kit.

3. SPECIFICATIONS

Feature	Detail
Manufacturer	Sundpey
Model Number	BYD117
Item Weight	9.6 pounds (4.3 kg)
Product Dimensions	16.14 x 11.61 x 3.94 inches (41 x 29.5 x 10 cm)
Power Source	Battery Powered (Cordless Drill), Hand Powered (Other Tools)
Voltage (Drill)	12 Volts
Battery Type	Lithium Ion (1500 mAh)
Drill Speed Settings	0-350 RPM (Low), 0-1350 RPM (High)
Max Torque (Drill)	25 Newton Meters
Chuck Size (Drill)	3/8 inch (10mm)
Color	Blue
Total Pieces	206

Sundpey



WEIGHT: 4.3kg/9.5lb



Figure 3.1: Tool Kit Case Dimensions and Weight.

4. SETUP

4.1 Charging the Cordless Drill Battery

1. Locate the 12V Lithium-Ion battery pack and the charger.
2. Connect the charger to a standard electrical outlet.
3. Insert the battery pack into the charger.
4. Observe the indicator light on the charger:
 - **Red Light:** Indicates the battery is currently charging.

- **Green Light:** Indicates the battery is fully charged.

5. Charging typically takes 2-3 hours for a full charge. Disconnect the battery once fully charged to prolong its lifespan.

4.2 Installing Drill Bits

1. Ensure the drill is turned off and the battery is removed for safety.
2. Twist the chuck counter-clockwise to open the jaws.
3. Insert the desired drill bit or screwdriver bit into the chuck, ensuring it is seated firmly.
4. Twist the chuck clockwise to tighten the jaws securely around the bit. Ensure the bit is centered and cannot be pulled out easily.
5. Re-insert the battery pack into the drill until it clicks into place.



Figure 4.1: Cordless Drill Features.

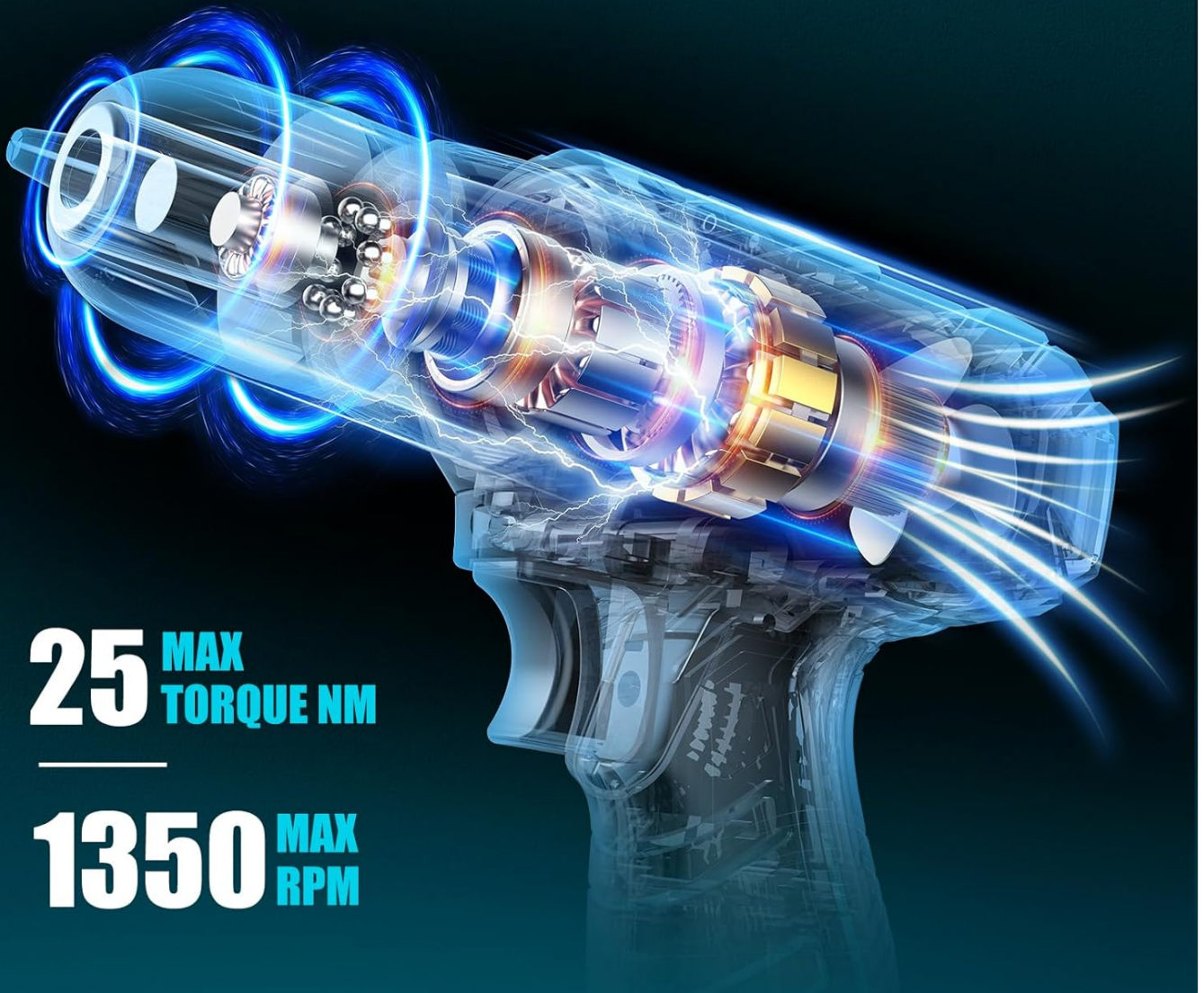
5. OPERATING INSTRUCTIONS

5.1 Using the Cordless Power Drill

1. **Power On/Off:** Press the trigger to turn the drill on. Release the trigger to turn it off.
2. **Variable Speed Control:** The drill features a variable speed trigger. Pressing the trigger lightly will result in lower speed, while pressing it fully will achieve maximum speed.
3. **Speed Settings:** Use the speed selector switch located on top of the drill to choose between two speed ranges:
 - **Low Speed (0-350 RPM):** Ideal for driving screws and drilling into softer materials where higher torque is needed.
 - **High Speed (0-1350 RPM):** Suitable for drilling into harder materials where faster rotation is required.
4. **Forward/Reverse Switch:** The F/R switch near the trigger controls the direction of rotation. Push it left for forward (clockwise) rotation and right for reverse (counter-clockwise) rotation. Center position locks the trigger for safety.
5. **Torque Adjustment:** The torque clutch ring (18+1 settings) allows you to set the amount of torque before the clutch disengages.
 - Lower settings (1-5) are for driving small screws or working with soft materials.
 - Medium settings (6-12) are for driving medium screws into various materials.
 - Higher settings (13-18) are for driving large screws or drilling.
 - The drill icon setting is for maximum torque, suitable for drilling applications.
6. **LED Light:** The integrated LED light illuminates the work area when the trigger is pressed, improving visibility in dimly lit spaces.

12V HIGH PERFORMANCE MOTOR

2 Variable Speeds



25 MAX
TORQUE NM

1350 MAX
RPM

Figure 5.1: Drill Motor Performance.

5.2 Using Hand Tools

Each hand tool in the kit is designed for specific tasks. Always select the appropriate tool for the job to ensure efficiency and safety.

- **Screwdrivers & Hex Keys:** Match the tip of the screwdriver or hex key to the screw head for a secure fit to prevent stripping.
- **Pliers:** Use linesman pliers for general gripping and cutting, and needle nose pliers for fine work or reaching into tight spaces.
- **Hammer:** Use the claw end for pulling nails and the flat head for driving nails. Always wear safety glasses when hammering.
- **Adjustable Wrench:** Adjust the jaw opening to fit the nut or bolt snugly before applying force.
- **Tape Measure:** Extend the tape to measure distances. Use the lock button to hold the measurement.
- **Flexible Shaft:** Attach to the drill for screwdriving in hard-to-reach angles.

SCREWDRIVER & HEX KEY SET & BITS

Meet the needs of various screw holes.



Figure 5.2: Screwdriver and Hex Key Set in use.



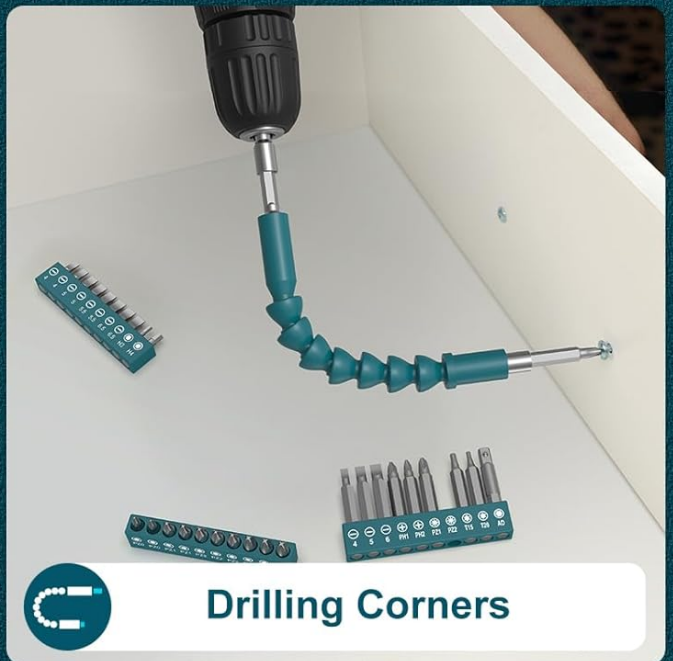
Precision Drilling



Electric Screwdrivers

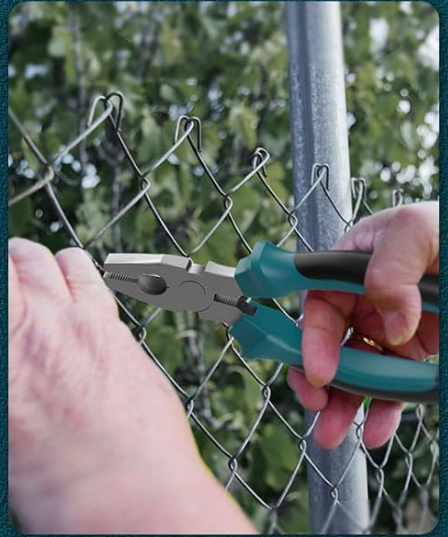


Electric Wrench



Drilling Corners

Figure 5.3: Versatile applications of the Sundpey Tool Kit.



COMPLETE TOOL SET TO MEET YOUR REPAIR NEEDS



Figure 5.4: Hand tools in action.

6. MAINTENANCE

- **Cleaning:** After each use, wipe down all tools with a clean, dry cloth to remove dust, dirt, and debris. For stubborn grime, a slightly damp cloth can be used, followed by immediate drying.
- **Lubrication:** Periodically apply a light coat of machine oil to moving parts of pliers, wrenches, and the drill chuck to ensure smooth operation and prevent rust.
- **Storage:** Always return tools to their designated compartments in the sturdy plastic case. This protects the tools from damage, keeps them organized, and prevents loss. Store the case in a dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** Store the drill battery in a cool, dry place. Avoid fully discharging the battery before recharging, and

do not leave it on the charger indefinitely after it's full.

- **Inspection:** Regularly inspect tools for any signs of wear, damage, or corrosion. Replace damaged tools or parts immediately to ensure safety and optimal performance.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Cordless drill does not turn on.	Battery is not charged or not properly inserted. Forward/Reverse switch is in the center (locked) position.	Ensure battery is fully charged and securely inserted. Move the F/R switch to either the forward or reverse position.
Battery not charging.	Charger not plugged in. Faulty battery or charger.	Check power outlet and charger connection. Contact customer support if problem persists.
Drill bit slips in chuck.	Chuck not tightened sufficiently. Bit shank is dirty or damaged.	Tighten the chuck firmly. Clean or replace the drill bit.
Screws are stripping.	Incorrect bit size/type. Too much torque or speed. Bit not fully engaged in screw head.	Use the correct bit for the screw. Reduce torque setting or drill speed. Apply firm, consistent pressure and ensure bit is fully seated.
Hand tools feel loose or damaged.	Normal wear and tear. Improper use.	Inspect for damage. If significantly compromised, replace the tool. Always use tools for their intended purpose.

8. SAFETY INFORMATION

Always follow basic safety precautions when using power tools and hand tools to reduce the risk of personal injury.

- **Wear Eye Protection:** Always wear safety goggles or safety glasses with side shields when operating power tools or striking tools.
- **Wear Appropriate Attire:** Do not wear loose clothing, gloves, neckties, or jewelry that can get caught in moving parts. Secure long hair.
- **Maintain a Clean Work Area:** Cluttered areas and benches invite accidents. Keep your work area well-lit.
- **Avoid Dangerous Environments:** 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.
- **Secure Workpiece:** Use clamps or a vise to hold the workpiece. This is safer than using your hand and it frees both hands to operate the tool.
- **Do Not Overreach:** Keep proper footing and balance at all times.
- **Disconnect Tools:** Disconnect the battery pack from the drill before making any adjustments, changing

accessories, or storing the tool.

- **Use the Right Tool:** Do not force a small tool or attachment to do the job of a heavy-duty tool.
- **Maintain Tools With Care:** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories.
- **Check for Damaged Parts:** Before any further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function.

9. WARRANTY AND SUPPORT

Sundpey offers a **12-month product service** for this tool kit. We are committed to providing all customers with high-quality tool sets and excellent service.

If you have any questions, concerns, or require assistance with your Sundpey Tool Kit, please do not hesitate to reach out to our customer support team. We aim to respond to all inquiries within 24 hours.

For support, please refer to the contact information provided with your purchase or visit the official Sundpey website.

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