Skil DL527501

SKIL 20V 1/2 Inch Cordless Drill Driver

Model: DL527501

Product Overview

The SKIL 20V 1/2 Inch Cordless Drill Driver is a versatile power tool designed for a variety of home and DIY projects, including tightening screws, assembling furniture, and drilling into wood, plastic, or metal surfaces. This bare tool version is intended for users who already possess compatible SKIL 20V PWR CORE batteries and chargers.



Front view of the SKIL 20V 1/2 Inch Cordless Drill Driver, showcasing its compact design and keyless chuck.



Side view of the SKIL 20V 1/2 Inch Cordless Drill Driver, highlighting the integrated belt clip for convenient carrying.

Safety Information

Always observe the following safety precautions when operating the drill driver:

- Wear appropriate personal protective equipment, including safety glasses, hearing protection, and gloves.
- Ensure the workpiece is securely clamped or held to prevent movement during drilling or driving.
- Keep hands and loose clothing away from rotating parts.
- Do not operate the tool in damp or wet conditions.
- Before changing accessories or performing maintenance, always remove the battery pack.
- Use only SKIL 20V PWR CORE batteries and chargers with this tool.

Package Contents

The SKIL 20V 1/2 Inch Cordless Drill Driver (Bare Tool) package includes:

- SKIL 20V 1/2 Inch Cordless Drill Driver

- Belt Clip
- 2-inch Double Ended Bit (PH2)

Note: Battery and charger are sold separately as this is a bare tool.

Product Features

- **1/2 Inch Keyless Chuck:** Allows for quick and easy bit changes without the need for a chuck key. Features an auto spindle lock for secure bit retention.
- **17+1 Clutch Settings:** Provides precise torque control for various applications, preventing over-driving screws or damaging materials. The "+1" setting is for drill mode, bypassing the clutch for maximum power.
- **Two Speed Settings:**
  - Low Speed (0-420 RPM): Ideal for high-torque applications like driving large fasteners or drilling into tough materials.
  - High Speed (0-1450 RPM): Suitable for fast drilling and lighter driving tasks.
- **Forward/Reverse LED Indicators:** Clearly shows the current rotation direction of the chuck.
- **LED Work Light:** Illuminates the work area when the trigger is pressed, and remains on for 10 seconds after the trigger is released for improved visibility in dimly lit spaces.
- **Belt Clip:** Conveniently attaches the drill to your belt for easy access.
- **SKIL PWR CORE 20 Technology:** Designed for longer run time and battery life, featuring a patented temperature management system with phase change materials to keep the battery cool.



Close-up view of the top of the SKIL drill driver, showing the speed selector switch and clutch settings.

Setup

1. Battery Installation

1. Align the battery pack with the battery port on the bottom of the drill handle.
2. Slide the battery pack into the port until it clicks securely into place.
3. To remove, press the release button on the battery pack and slide it out.

2. Installing/Removing Drill Bits or Driver Bits

1. Ensure the drill is off and the battery pack is removed for safety.
2. Grasp the rear portion of the chuck firmly with one hand.
3. Rotate the front portion of the chuck counter-clockwise until the jaws are open wide enough to insert the bit.
4. Insert the desired drill bit or driver bit into the chuck jaws. Ensure the bit is inserted as far as possible for maximum grip.
5. Rotate the front portion of the chuck clockwise to tighten the jaws securely around the bit. Hand-tighten firmly. The auto spindle lock will assist in this process.
6. To remove a bit, reverse the tightening process.

Operating Instructions

1. Selecting Speed

The drill driver has a two-speed gearbox. Use the speed selector switch located on top of the drill:

- Position 1 (Low Speed): For high-torque applications, such as driving large screws or drilling large holes.
- Position 2 (High Speed): For fast drilling and lighter driving tasks.

Note: Do not change speed while the motor is running.

2. Adjusting Clutch Settings (Torque Control)

The clutch ring allows you to set the desired torque. Rotate the clutch ring to align the desired setting with the indicator arrow:

- Settings 1-17: For driving screws. Lower numbers are for smaller screws and softer materials; higher numbers are for larger screws and harder materials.
- Drill Symbol (⚒): For drilling applications. This setting bypasses the clutch for maximum power.

Experiment with lower settings first and increase as needed to prevent over-driving or stripping screws.

3. Forward/Reverse Rotation

The forward/reverse switch is located above the trigger. Push the switch to the left for forward rotation (clockwise) and to the right for reverse rotation (counter-clockwise). The center position locks the trigger for safety.

LED indicators on the top of the drill will illuminate to show the selected direction.

4. Starting and Stopping

To start the drill, press the trigger switch. The speed is variable depending on how far the trigger is pressed. To stop, release the trigger switch.



The SKIL drill driver in use, demonstrating its capability for driving screws into wooden surfaces.



The SKIL drill driver being used to drill a hole into a wall, showcasing its versatility for various drilling tasks.

Maintenance

Cleaning

- Always disconnect the battery pack before cleaning.
- Use a soft, damp cloth to wipe down the exterior of the tool. 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

- Store the drill driver in a clean, dry place, away from direct sunlight and extreme temperatures.
- Remove the battery pack from the tool before storing for extended periods.

Troubleshooting

Problem	Possible Cause	Solution
Drill does not start.	Battery not inserted correctly or discharged. Trigger lock engaged.	Ensure battery is fully seated. Charge battery if needed. Disengage trigger lock by centering the forward/reverse switch.
Bit slips in chuck.	Chuck not tightened sufficiently. Bit shank is dirty or damaged.	Re-tighten chuck firmly. Clean or replace the bit.
Screws are stripped or over-driven.	Clutch setting is too high.	Reduce the clutch setting to a lower number.
Drill overheats.	Overloading the tool. Blocked ventilation.	Allow the tool to cool down. Clear any obstructions from ventilation openings. Reduce load.

Specifications

Feature	Detail
Brand	Skil
Model Number	DL527501
Power Source	Battery Powered (20V)
Chuck Size	1/2 Inch (13 mm) Keyless
Clutch Settings	17 + 1 (Drill Mode)
No-Load Speed (Low)	0-420 RPM
No-Load Speed (High)	0-1450 RPM
Maximum Torque	350 Inch Pounds (approx. 0.4 Newton Meters)
Item Weight	2.2 Pounds (approx. 0.99 kg)
Product Dimensions	9.05"L x 7.87"W x 3.18"H
Included Components	Drill Driver, Belt Clip, 2" Double Ended Bit PH2

Warranty and Support

This SKIL 20V 1/2 Inch Cordless Drill Driver is covered by a**5-year limited warranty**. For detailed warranty information, terms, and conditions, please refer to the official SKIL warranty documentation or visit the SKIL website.

For technical support, replacement parts, or service inquiries, please contact SKIL customer service. You may also find additional resources, including a downloadable PDF user manual, on the official SKIL website or through the retailer where the product was purchased.

A PDF version of the user manual is available for download:Download User Manual (PDF)

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