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BLACK+DECKER BL188N-XJ

BLACK+DECKER 18V Brushless Hammer Drill

Model: BL188N-XJ

1. IMPORTANT SAFETY INFORMATION

Always observe basic safety precautions when using power tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions carefully before operation.

- **Work Area Safety:** Keep the 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:** 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 and/or remove the battery pack before making any adjustments, changing accessories, or storing power tools.
- **Battery Pack Safety:** This tool is a 'bare unit' and requires an 18V Lithium-Ion battery (sold separately). Only use battery packs and chargers specified by the manufacturer.

2. PRODUCT OVERVIEW

The BLACK+DECKER 18V Brushless Hammer Drill is a versatile and powerful tool designed for drilling into wood, metal, and masonry, as well as for screwdriving tasks. Its brushless motor technology provides enhanced power, torque, and runtime.



Figure 2.1: Front view of the BLACK+DECKER 18V Brushless Hammer Drill, showing the chuck, torque collar, mode selector, trigger, and battery interface.



Figure 2.2: The BLACK+DECKER 18V Brushless Hammer Drill being used to drill into a wooden beam, demonstrating its application.

Key Features:

- Brushless Motor Technology for extended power and runtime.
- 52 Nm of powerful torque.
- Variable speed control (0 - 1650 RPM).
- High-performance hammer action (28,000 BPM) for masonry drilling.
- 11 torque settings for precise screwdriving.
- Integrated LED light to illuminate the work area.

Components:

1. Keyless Chuck
2. Torque Adjustment Collar
3. Mode Selector (Drill, Screwdriver, Hammer Drill)
4. Variable Speed Trigger
5. Forward/Reverse Selector
6. LED Work Light
7. Battery Interface (Battery not included)

3. SETUP

3.1. Battery Installation and Removal

This tool is supplied as a 'bare unit' and requires an 18V Lithium-Ion battery and compatible charger (both sold separately).

1. **To Install:** Align the battery pack with the battery interface on the tool. Slide the battery pack into the tool until it clicks securely into place.
2. **To Remove:** Press the battery release button(s) located on the sides of the battery pack and slide the battery pack out of the tool.

3.2. Inserting and Removing Drill Bits/Screwdriver Bits

1. **To Insert:** Rotate the chuck collar counter-clockwise until the chuck jaws are open wide enough to accept the bit. Insert the bit fully into the chuck. Rotate the chuck collar clockwise to tighten the jaws securely around the bit.
2. **To Remove:** Rotate the chuck collar counter-clockwise to loosen the jaws and pull the bit out.

4. OPERATING INSTRUCTIONS

4.1. Selecting Operating Mode

Rotate the mode selector collar to choose the desired operating mode:

- **Screwdriver Mode (screwdriver icon):** For driving and removing screws.
- **Drill Mode (drill bit icon):** For drilling into wood, metal, and plastics.
- **Hammer Drill Mode (hammer icon):** For drilling into masonry and concrete.

4.2. Adjusting Torque (Screwdriver Mode Only)

The torque adjustment collar allows you to set the amount of torque applied. There are 11 settings, with 1 being the lowest torque and 11 being the highest. Select a lower setting for smaller screws or softer materials, and a higher setting for larger screws or harder materials.

4.3. Variable Speed Control

The tool's speed is controlled by the pressure applied to the trigger. Pressing the trigger lightly results in lower speed, while pressing it fully results in maximum speed. This allows for precise control during operation.

4.4. Forward/Reverse Operation

The forward/reverse selector switch, located above the trigger, controls the direction of rotation. Push the switch to the left for forward rotation (drilling/driving screws in) and to the right for reverse rotation (removing screws/backing out bits).

4.5. Drilling and Screwdriving Tips

- Always hold the tool firmly with both hands, especially when drilling with larger bits or in hammer drill mode.
- Apply steady, even pressure. Do not force the tool.
- For drilling into hard materials, start with a pilot hole if necessary.
- When screwdriving, ensure the bit is fully engaged in the screw head to prevent stripping.

5. MAINTENANCE

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

- **Cleaning:** Keep the ventilation slots of the tool clean to prevent overheating. Use a soft brush or dry cloth to remove dust and debris. Do not use water or chemical cleaners.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits.
- **Storage:** Store the tool in a dry, secure place out of reach of children. Remove the battery pack before storage.
- **Lubrication:** This tool is factory lubricated and requires no additional lubrication.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start	Battery pack not inserted correctly or discharged.	Ensure battery pack is fully inserted. Charge the battery pack.
Reduced power/performance	Battery pack low on charge or tool overheating.	Recharge battery. Allow tool to cool down if used continuously.
Bit slips in chuck	Chuck not tightened sufficiently or bit shank is dirty/damaged.	Tighten chuck firmly. Clean or replace bit.
Excessive vibration	Damaged bit or improper bit insertion.	Inspect bit for damage and replace if necessary. Re-insert bit correctly.

7. SPECIFICATIONS

Attribute	Value
Model Number	BL188N-XJ
Voltage	18 Volts
Power Source	Battery Powered (Lithium Ion)
Maximum Rotational Speed	1650 RPM
Maximum Torque	54 Newton Meters
Hammer Action (BPM)	28,000 BPM
Chuck Size	13 mm

Attribute	Value
Drilling Capacity (Wood)	25.0 mm
Drilling Capacity (Steel)	13 mm
Drilling Capacity (Masonry)	10 mm
Item Weight	1.2 Kilograms (approx. 2.64 pounds)
Product Dimensions (L x W x H)	9.84" x 2.76" x 10.63"
Included Components	1 x 18V Brushless Hammer Drill, Instruction Manual

8. WARRANTY AND SUPPORT

8.1. Warranty Information

This BLACK+DECKER 18V Brushless Hammer Drill (Bare Unit) is covered by a **2-Year Limited Warranty** from the date of purchase. This warranty covers defects in material or workmanship. It does not cover damage caused by misuse, abuse, normal wear and tear, or unauthorized repairs.

Please retain your proof of purchase for warranty claims.

8.2. Customer Support

For technical assistance, warranty claims, or to purchase replacement parts or accessories, please contact BLACK+DECKER customer service. Refer to the official BLACK+DECKER website or product packaging for the most current contact information.