

BLACK+DECKER LHT321

BLACK+DECKER 20V MAX Powercut 22-Inch Hedge Trimmer (LHT321) Instruction Manual

Model: LHT321

1. IMPORTANT SAFETY INFORMATION

Read all safety warnings and instructions before operating this product. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Eye Protection:** Always wear eye protection marked to comply with ANSI Z87.1.
- **Hand Protection:** Wear heavy-duty gloves when operating the hedge trimmer and when handling the blade.
- **Secure Grip:** Maintain a firm grip with both hands on the trimmer handles.
- **Clear Work Area:** Ensure the work area is clear of debris, children, and bystanders.
- **Inspect Blades:** Before each use, inspect the blades for damage. Do not use if blades are bent or broken.
- **Battery Safety:** Use only BLACK+DECKER 20V MAX batteries and chargers. Do not expose batteries to water or extreme temperatures.
- **Blade Guard:** Always use the blade sheath when the trimmer is not in use or during transport.

2. PRODUCT OVERVIEW

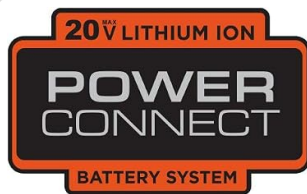
The BLACK+DECKER 20V MAX Powercut 22-Inch Hedge Trimmer (LHT321) is designed for efficient trimming of hedges and shrubs. It features a dual-action blade for reduced vibration and the POWERCUT™ function to clear jams.



Figure 1: The BLACK+DECKER 20V MAX Powercut 22-Inch Hedge Trimmer (LHT321). This image shows the complete hedge trimmer with its long blade and ergonomic handles.

Key Features:

- **POWERCUT™ Feature:** Allows you to cut through jams with the push of a button.
- **20V MAX Lithium Ion Battery:** Provides power and extended run-time.
- **22-Inch Dual-Action Blade:** Engineered for less vibration and capable of cutting branches up to 3/4-inch diameter.
- **Ergonomic Handle with Premium Soft Grips:** Designed for improved comfort and control during operation.
- **Part of the 20V MAX System:** Compatible with other BLACK+DECKER 20V MAX tools.



Premium microtexture soft grip for maximum comfort

Grip zones for complete comfort + control



22 in. Dual-action blade cuts up to 3/4 in. branches

*Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

Figure 2: Detailed view of the hedge trimmer highlighting key features such as the premium microtexture soft grip, grip zones for comfort and control, and the 22-inch dual-action blade.

3. SETUP AND ASSEMBLY

3.1. Battery Charging

The battery is not fully charged at the time of purchase. Before first use, charge the battery fully. Refer to the battery charger manual for complete charging instructions.

1. Connect the charger to a standard electrical outlet.
2. Slide the battery pack onto the charger until it clicks into place.
3. Allow the battery to charge until the indicator light shows a full charge.
4. Remove the battery from the charger once fully charged.

3.2. Battery Installation and Removal



Figure 3: The hedge trimmer shown alongside its 20V MAX battery and charger. This illustrates the components included for power and charging.

- **To Install:** Align the battery pack with the battery port on the trimmer handle. Slide the battery into the port until it locks securely into place. Ensure it is fully seated.
- **To Remove:** Press the battery release button (usually located on the battery pack) and slide the battery out of the trimmer.

4. OPERATING INSTRUCTIONS

4.1. Starting and Stopping the Trimmer

The trimmer is equipped with a two-step starting mechanism for safety.

1. Ensure the battery is securely installed.
2. Grip the front handle and the rear handle firmly with both hands.
3. Depress the lock-off button (usually located near the rear handle).
4. Squeeze the trigger switch. The blades will begin to move.

5. To stop the trimmer, release the trigger switch.

4.2. Trimming Techniques

For best results, use a sweeping motion, moving the trimmer along the hedge. Avoid forcing the blades through thick material.



Figure 4: A user demonstrating proper technique for trimming a hedge with the BLACK+DECKER LHT321 hedge trimmer, maintaining a steady, controlled motion.

- **Horizontal Trimming:** Hold the trimmer with the blades slightly angled downwards (about 10-15 degrees) and sweep across the top of the hedge.
- **Vertical Trimming:** Hold the trimmer vertically and sweep upwards or downwards along the sides of the hedge.
- **Cutting Branches:** The 22-inch dual-action blade can cut branches up to 3/4-inch in diameter. Position the branch between the blades and allow the trimmer to cut through without forcing.



Figure 5: Close-up view of the hedge trimmer blades actively cutting through branches, demonstrating its capability for thicker growth.

4.3. Using the POWERCUT™ Feature

If the blades encounter a jam, the POWERCUT™ feature can help clear it.

1. If the blades jam, release the trigger switch.
2. Press the POWERCUT™ button (typically located on the top of the handle).
3. The trimmer will attempt to reverse the blade action to clear the jam.
4. If the jam persists, turn off the trimmer, remove the battery, and manually clear the obstruction with caution.



**Compared to BLACK&DECKER single-action blade models

**Less vibration while trimming
with 22 in. dual-action blade****

Figure 6: A close-up image showing a hand pressing the POWERCUT™ button, which is designed to help clear blade jams during operation.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your hedge trimmer.

5.1. Cleaning

- **Always remove the battery before cleaning.**
- Use a stiff brush or cloth to remove debris from the blades and housing.
- Do not use water or cleaning solutions directly on the trimmer. Wipe with a damp cloth if necessary.

5.2. Blade Care

- After each use, apply a light machine oil or blade lubricant to the blades to prevent rust and ensure smooth operation.
- Periodically check the blades for sharpness. Dull blades can tear foliage and strain the motor. Sharpening should be done by a qualified service technician.

5.3. Storage

- Store the hedge trimmer in a dry, secure location, out of reach of children.
- Always use the blade sheath when storing or transporting the trimmer.
- Remove the battery pack from the trimmer before storing for extended periods.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Trimmer does not start.	Battery not installed correctly or discharged. Lock-off button not depressed. Trigger switch not fully squeezed.	Ensure battery is fully charged and properly seated. Depress the lock-off button before squeezing the trigger. Squeeze the trigger fully.
Reduced cutting performance.	Dull or damaged blades. Battery charge is low. Cutting material is too thick.	Have blades sharpened or replaced by a service center. Recharge the battery. Do not force the trimmer; cut smaller sections or use appropriate tools for thicker branches.
Blades jam frequently.	Excessive material being cut. Blades are dull or dirty. POWERCUT™ feature not used or ineffective.	Cut smaller amounts of material. Clean and lubricate blades. If dull, have them sharpened. Use the POWERCUT™ button. If it fails, remove battery and manually clear jam.
Battery not charging.	Charger not plugged in. Faulty battery or charger. Battery too hot/cold.	Check power connection. Contact BLACK+DECKER service for inspection. Allow battery to reach room temperature before charging.

7. SPECIFICATIONS

Feature	Detail
Brand	BLACK+DECKER
Model Number	LHT321
Power Source	Battery Powered (20V MAX Lithium Ion)
Blade Length	22 Inches
Blade Type	Dual-Action
Max Cutting Diameter	3/4 Inches
Blade Material	Stainless Steel

Feature	Detail
Item Weight	7.88 pounds
Product Dimensions	1 x 7.5 x 7 inches
UPC	885911450102

8. WARRANTY AND SUPPORT

BLACK+DECKER provides a limited warranty for this product. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official BLACK+DECKER website. For technical assistance, replacement parts, or service inquiries, please contact BLACK+DECKER customer support:

- **Website:** www.blackanddecker.com
- **Phone:** Refer to your regional BLACK+DECKER contact information.

When contacting support, please have your model number (LHT321) and purchase date available.