

BLACK+DECKER LCS1020

BLACK+DECKER 20V MAX 10-Inch Cordless Chainsaw (LCS1020) Instruction Manual

Model: LCS1020

Brand: BLACK+DECKER

1. IMPORTANT SAFETY INFORMATION

Always read and understand all safety warnings and instructions before operating the chainsaw. Failure to follow these warnings and instructions may result in electric shock, fire, and/or serious injury.

Personal Protective Equipment (PPE)

- **Eye Protection:** Always wear safety glasses or goggles to protect against flying debris.
- **Hand Protection:** Wear heavy-duty work gloves for grip and protection.
- **Hearing Protection:** Use ear protection during operation.
- **Foot Protection:** Wear sturdy, non-slip footwear.
- **Head Protection:** A safety helmet is recommended, especially when cutting overhead.

General Chainsaw Safety

- Keep all parts of the body away from the saw chain when the chainsaw is operating.
- Always hold the chainsaw firmly with both hands.
- Ensure the work area is clear of other persons, children, and pets.
- Do not operate a chainsaw when you are tired, ill, or under the influence of drugs or alcohol.
- Avoid accidental starting. Ensure the switch is in the off-position before inserting the battery pack.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts.
- Maintain a firm grip on the chainsaw with both hands when power is on.

- Be aware of kickback. Kickback may occur when the moving saw chain contacts an object at the upper tip of the guide bar.

2. PRODUCT OVERVIEW

The BLACK+DECKER LCS1020 is a lightweight and efficient 20V MAX cordless chainsaw designed for light-duty cutting tasks such as pruning branches and cutting small logs. It features a 10-inch bar and chain, a tool-less chain tensing system, and an automatic oiling system.



Figure 1: Overview of the BLACK+DECKER LCS1020 Chainsaw with key components labeled, including the oiling system, wrap-around handle, tool-free chain tensing, and 10-inch bar and chain.

Key Components:

- **10-inch Bar and Chain:** Designed for smooth and fast cuts.
- **20V MAX* Lithium Battery:** Provides long run-time and long life.
- **Automatic Oiling System:** Keeps the bar and chain lubricated during operation. It features a prime button on top of the oil cover to ensure proper lubrication.
- **Tool-less Chain Tensioning:** Allows for fast and easy adjustments without additional tools.
- **Lock-off Button:** Prevents accidental starting for enhanced safety.

- **Front Hand Guard:** Protects the user from flying debris.
- **Wrap-around Handle:** Provides controlled vertical and horizontal cutting.

3. SETUP

Battery Installation and Charging

1. Ensure the chainsaw is turned off and the safety lock is engaged.
2. Insert the 20V MAX lithium battery into the battery port until it clicks securely into place.
3. To remove, press the release button on the battery and slide it out.
4. Charge the battery using the provided charger. Refer to the charger's instructions for charging times and indicators.



Figure 2: The 20V MAX lithium battery properly inserted into the chainsaw, demonstrating its power source.

Chain Installation (if required)

1. Ensure the battery is removed for safety.
2. Remove the side cover by loosening the tool-less tensioning knob and disengaging the cover.
3. Carefully place the chain around the sprocket and guide bar, ensuring the cutting edges are facing the correct direction.
4. Reattach the side cover and lightly tighten the tensioning knob.

Filling Bar and Chain Oil

1. Unscrew the oil cap located on the top of the chainsaw.

2. Fill the reservoir with appropriate bar and chain oil. Do not overfill.
3. Replace the oil cap securely.
4. Before each use, and periodically during operation, press the prime button on the oil cover to ensure the bar and chain are adequately lubricated.



Figure 3: A hand carefully pouring bar and chain oil into the chainsaw's oil reservoir, highlighting the location of the oil cap.

Adjusting Chain Tension

1. Ensure the battery is removed.
2. Loosen the large plastic screw (tool-less tensioning knob) by turning it one full turn counter-clockwise.
3. Adjust the bar left or right until there is approximately 1/8 inch of slack in the chainsaw blade.
4. Tighten the large plastic screw clockwise until the chain is taut but can still be moved freely by hand.



Figure 4: A hand demonstrating the tool-free chain tensioning system, ensuring simple and quick adjustments.

4. OPERATING INSTRUCTIONS

Starting the Chainsaw

1. Ensure the battery is fully charged and properly installed.
2. Hold the chainsaw firmly with both hands, maintaining a balanced stance.
3. Press the lock-off button (safety switch) with your thumb.
4. Squeeze the trigger to start the saw chain. Release the lock-off button once the chain starts moving.

Cutting Techniques

- Always ensure the saw chain is at full speed before making contact with the wood.
- Use the low-kickback bar and chain for smooth and controlled cuts.
- For branches, support the branch to prevent pinching the saw chain.
- When cutting logs, ensure they are stable and cannot roll.

- Periodically press the oil prime button during extended cutting to maintain lubrication.



Figure 5: The chainsaw in action, demonstrating its capability to cut through wood with sawdust visible.

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Video 1: Official product video demonstrating the BLACK+DECKER 20V MAX Cordless Chainsaw, 10-Inch, showcasing its features and ease of use in various cutting scenarios.

5. MAINTENANCE

General Maintenance

- Always remove the battery pack before performing any maintenance.
- Keep the chainsaw clean and free of debris. Use a brush or compressed air to remove sawdust from the motor housing and chain area.
- Regularly check the chain tension and adjust as needed.
- Ensure the bar and chain oil reservoir is always filled with appropriate oil.

Chain Sharpening

The saw chain will eventually become dull with use. A dull chain will not cut efficiently and can cause excessive wear on the chainsaw. Sharpen the chain using a 4.5 mm round file. It is recommended to use a file guide to maintain correct angles.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Chainsaw does not start	Battery not charged or improperly installed; Lock-off button not pressed.	Charge battery; Reinstall battery correctly; Press lock-off button before squeezing trigger.
Chain is loose or falls off	Improper chain tension.	Adjust chain tension as per Setup instructions.
Chainsaw not cutting efficiently	Dull chain; Insufficient bar and chain oil.	Sharpen or replace chain; Refill oil reservoir and prime the oiling system.
Oil not visible on chain	Oil reservoir empty; Oiling system not primed.	Refill oil reservoir; Press the prime button repeatedly.

7. SPECIFICATIONS

- **Brand:** BLACK+DECKER
- **Model Number:** LCS1020
- **Power Source:** Battery Powered (20V MAX* Lithium Ion)
- **Chain Length:** 10 Inches
- **Item Weight:** 6.8 Pounds
- **Product Dimensions:** 16.7"L x 8.81"W x 9.63"H
- **Batteries:** 1 Lithium Ion battery required (included)

8. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact BLACK+DECKER customer service or visit their official website. Keep your purchase receipt as proof of purchase for warranty claims.

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Video 2: A detailed unboxing and setup guide for the BLACK+DECKER 20V MAX Chainsaw Kit, Cordless, 10", provided by a seller, covering initial assembly and oiling.