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VEVOR ML-CD191-200KSC

VEVOR 20V Brushless 5-Tool Combo Kit Instruction Manual

Model: ML-CD191-200KSC

Important Safety Instructions

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool kit. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

- **Work Area Safety:** Keep your 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:** Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Always wear eye protection. Use appropriate safety equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when necessary. Dress properly; do not wear loose clothing or jewelry. Keep hair and clothing away from moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Do not use the power tool if the switch does not turn it on and off. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Pack Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs. When the battery pack is not in use, keep it away from other metal objects.

Product Overview

The VEVOR 20V Brushless 5-Tool Combo Kit provides a versatile set of cordless power tools designed for various drilling, driving, and cutting tasks. This kit is suitable for home renovations, mechanical repairs, and construction sites.

Kit Components

- 1/2 inch Cordless Impact Drill
- 1/4 inch Cordless Impact Driver
- 7-1/2 inch Circular Saw
- Cordless Reciprocating Saw
- 20W High-Power LED Work Light
- Two 20V 4.0 Ah Lithium-Ion Batteries

- Battery Charger
- Belt Clips (2)
- Cloth Bag
- Auxiliary Handle (for drill)
- Saw Guide



Image: All components of the VEVOR 20V Brushless 5-Tool Combo Kit, including the impact drill, impact driver, circular saw, reciprocating saw, work light, batteries, charger, and carrying bag.

Setup

Battery Charging

Before first use, fully charge both 20V 4.0 Ah lithium-ion batteries. The charger is designed to fully charge a battery in approximately 1 hour.

1. Connect the charger to a standard power outlet.
2. Slide the battery pack onto the charger until it clicks into place.
3. The charger indicator light will show the charging status (refer to charger manual for specific light patterns).
4. Once fully charged, remove the battery pack from the charger.



Image: Two 20V 4.0 Ah lithium-ion batteries being charged simultaneously on the VEVOR dual-port charger.

Battery Installation and Removal

1. **Installation:** Align the battery pack with the tool's battery port and slide it in until it clicks securely into place. Ensure it is firmly seated.
2. **Removal:** Press the battery release button (usually located on the side or front of the battery) and slide the battery pack out of the tool.

Tool-Specific Setup

- **Impact Drill:** To install a drill bit, twist the chuck counter-clockwise to open the jaws, insert the bit, then twist clockwise to tighten. Ensure the bit is centered and secure.
- **Impact Driver:** Pull back the collar on the chuck, insert the 1/4 inch hex shank bit, and release the collar to lock the bit in place.
- **Circular Saw:** Ensure the tool is disconnected from the battery. Use the provided wrench to loosen the arbor nut, install the 7-1/2 inch blade with teeth pointing in the direction of rotation, and securely tighten the arbor nut. Adjust the cutting depth and bevel angle as needed using the respective levers.
- **Reciprocating Saw:** Ensure the tool is disconnected from the battery. Open the blade clamp lever, insert the reciprocating saw blade into the blade holder, and release the lever to secure the blade. Pull on the blade to ensure it is locked.

Operating Instructions

1. 1/2 inch Cordless Impact Drill

This impact drill offers precise control for various drilling and driving applications.

- **Features:** Max Speed: 1800 RPM, Max Torque: 100 N.m, Chuck Size: 2-13 mm (1/2 inch).
- **Speed Settings:** Select between two speed ranges (0-400 RPM for high torque, 0-1800 RPM for high speed) using the gear selector switch on top of the drill.
- **Torque Settings:** Adjust the clutch collar to one of the 18+1+1 torque settings to prevent over-driving screws or damaging materials. The 'drill' setting is for drilling without clutch engagement, and the 'impact' setting is for impact drilling.
- **Operation:** Squeeze the trigger to start. The harder you squeeze, the faster the drill operates. Use the forward/reverse switch for changing rotation direction.



Image: A person using the VEVOR 1/2 inch cordless impact drill to drill into a wooden block, demonstrating its application.

2. 1/4 inch Cordless Impact Driver

The impact driver delivers high torque for fastening applications, especially useful for driving long screws or bolts.

- **Features:** Max Torque: 220 N.m.
- **Speed & Impact Frequency:** Offers 3 adjustable speeds (0-1300/2000/2900 RPM) and 3 impact frequency settings (1690/2600/3770 bpm) to match the task requirements. Select the desired setting using the mode button.
- **Operation:** Press the trigger to activate. The variable speed trigger allows for precise control. Use the

forward/reverse switch to change the driving direction.



Image: A person using the VEVOR 1/4 inch cordless impact driver to fasten a screw into a workpiece, highlighting its powerful driving capability.

3. 7-1/2 inch Circular Saw

This circular saw provides powerful and precise cutting ability for various materials.

- **Features:** Max Speed: 3800 RPM, Max Blade Size: 190mm (7-1/2 inch), Max Cutting Depth: 62mm.

- **Multi-Angle Adjustment:** The base plate can be adjusted for bevel cuts at 45° and 90° angles. Loosen the bevel adjustment lever, set the desired angle, and tighten the lever.
- **Depth Adjustment:** Adjust the cutting depth by loosening the depth adjustment lever, moving the base plate to the desired depth, and tightening the lever.
- **Operation:** Ensure the workpiece is securely clamped. Align the saw blade with the cutting line. Depress the safety button and then the trigger to start the saw. Guide the saw smoothly through the material.



Image: A person operating the VEVOR 7-1/2 inch cordless circular saw to cut a wooden board, showcasing its cutting power and precision.

4. Cordless Reciprocating Saw

The reciprocating saw is ideal for quick cutting of various materials, including wood, metal, and plastic.

- **Features:** Max Speed: 2500 RPM, Stroke Length: 28mm, Clamping Range: 0.8-1.6mm.
- **Blade Selection:** Choose the appropriate blade for the material you are cutting.
- **Operation:** Hold the saw firmly with both hands. Place the shoe against the workpiece. Depress the trigger to start the saw and guide it through the material with steady pressure.

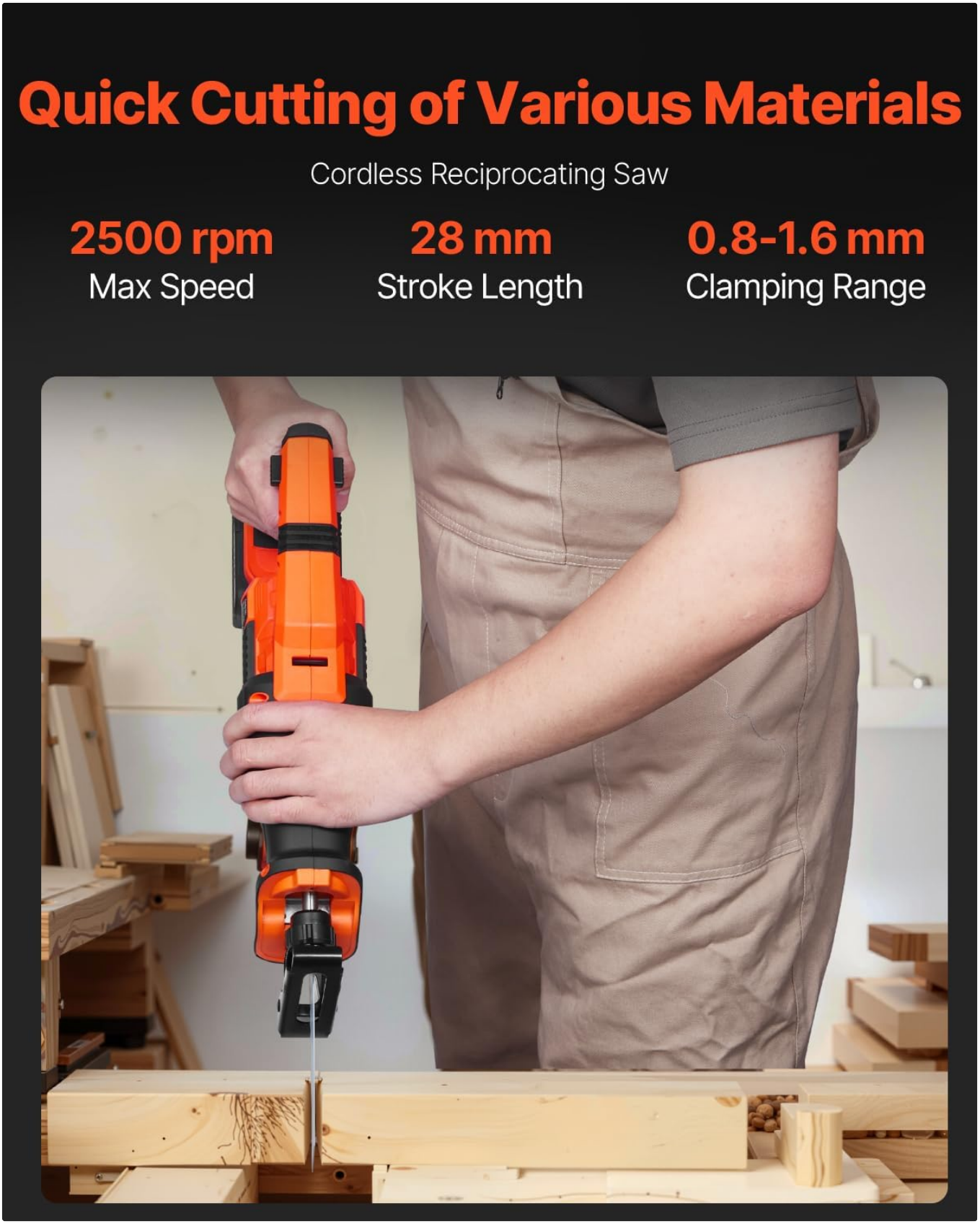

Image: A person using the VEVOR cordless reciprocating saw to cut a wooden beam, illustrating its versatility for different materials.

5. 20W High-Power LED Work Light

The work light provides bright illumination for dark work environments, enhancing visibility and safety.

- **Features:** Two Brightness Levels (2000 LUX / 900 LUX), 12 Hours Continuous Runtime, Adjustable Angle.
- **Brightness Adjustment:** Press the power button to cycle through brightness levels (high, low, off).
- **Angle Adjustment:** The light head can be tilted and rotated to direct illumination precisely where needed.
- **Operation:** Insert a charged 20V battery. Press the power button to turn on the light and adjust brightness.

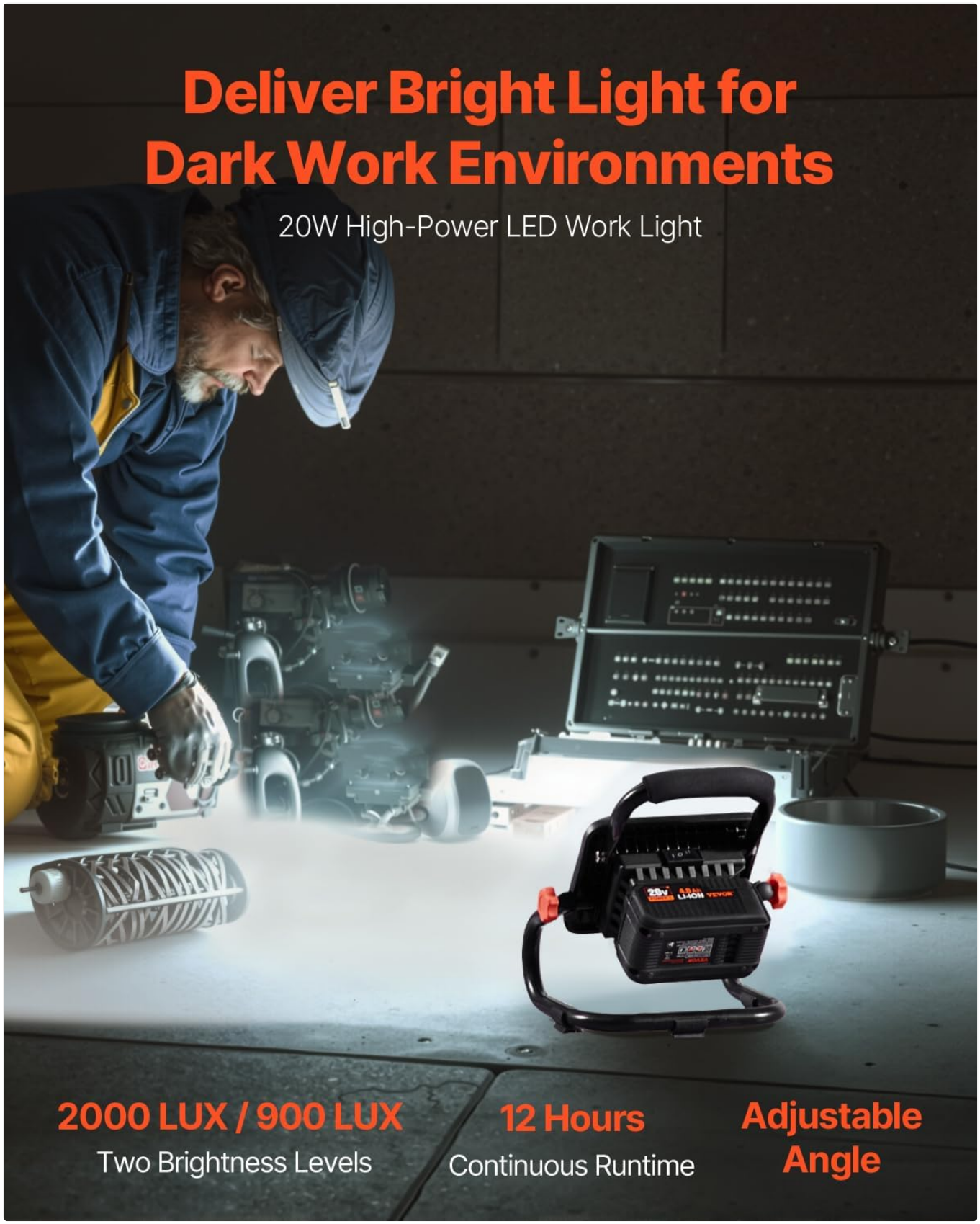

Image: The VEVOR 20W High-Power LED Work Light providing bright illumination in a dimly lit workspace, demonstrating its effectiveness.

Maintenance

General Care

- **Cleaning:** Keep the tool's ventilation openings clean to prevent overheating. Use a soft, damp cloth to clean the tool housing. Do not use solvents or abrasive cleaners.
- **Inspection:** Regularly inspect all tools for damage, loose screws, or worn parts. Replace damaged parts immediately.
- **Storage:** Store tools and batteries in a cool, dry place, away from direct sunlight and moisture. Keep out of reach of children.

Battery Care

- Do not store batteries in a discharged state. Recharge them after each use.
- Avoid exposing batteries to extreme temperatures.
- If storing for extended periods, charge batteries to approximately 50% capacity.

Brushless Motor Benefits

The impact drill and impact driver in this kit feature brushless motors, which offer several advantages:

- **Higher Efficiency:** More power is converted into work, resulting in longer runtime per charge.
- **Longer Service Life:** No carbon brushes to wear out, reducing maintenance and extending tool lifespan.
- **Lower Noise & Reduced Vibration:** Provides a more comfortable user experience.
- **Compact & Lighter:** Allows for easier handling and operation in tight spaces.

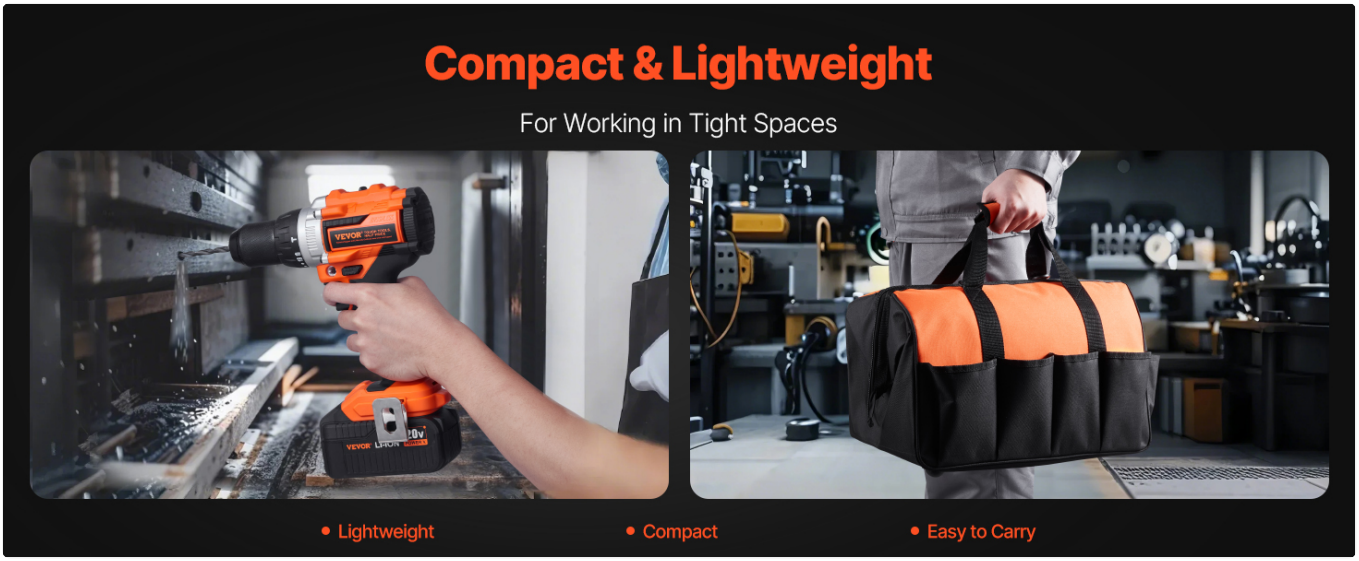

Image: An internal diagram illustrating the components of a brushless motor within a power tool, highlighting its advanced design for efficiency and durability.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or improperly installed.	Ensure battery is fully charged and correctly inserted.
Battery not charging.	Charger not plugged in, faulty battery, or charger.	Check power connection. Try a different battery or charger if available.
Reduced power or performance.	Low battery charge, incorrect setting, or dull accessory.	Recharge battery. Adjust speed/torque settings. Replace dull drill bits or saw blades.
Circular saw blade binding.	Improper cutting technique, dull blade, or material pinching.	Ensure proper support for workpiece. Replace blade. Do not force the saw.

Specifications

Feature	Specification
Model Number	ML-CD191-200KSC
Combination Type	Impact Drill + Impact Driver + Reciprocating Saw + Circular Saw + Work Light
Rated Voltage	DC 20V
Motor Type	Brushless Motor
Product Weight	26.6 lbs / 12.06 kg
Battery Capacity	2 x 4.0 Ah Lithium-Ion
Battery Charge Time	Approx. 1 Hour
Impact Drill Max Speed	0-400 / 0-1800 RPM
Impact Drill Max Torque	100 N.m
Impact Driver Max Speed	0-1300 / 2000 / 2900 RPM
Impact Driver Max Torque	220 N.m
Circular Saw Max Speed	3800 RPM
Circular Saw Blade Size	190mm (7-1/2 inch)
Circular Saw Max Cutting Depth	62mm
Reciprocating Saw Max Speed	2500 RPM
Reciprocating Saw Stroke Length	28mm
Work Light Brightness	2000 LUX / 900 LUX
Work Light Runtime	Up to 12 Hours



Image: Detailed dimensions of each tool in the VEVOR 20V 5-Tool Combo Kit, along with a list of included accessories.

Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official VEVOR website. Keep your purchase receipt as proof of purchase.

Contact VEVOR customer service for any questions or assistance regarding your 20V Brushless 5-Tool Combo Kit.

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