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> AEG BS12C2 LI-202B 12V Drill Driver User Manual

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Model: BS12C2 LI-202B

1. INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your AEG BS12C2 LI-202B 12V Drill Driver. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.

2. SAFETY INFORMATION

Always observe basic safety precautions when using power tools to reduce the risk of fire, electric shock, and personal injury.

- Wear appropriate personal protective equipment, including safety glasses, hearing protection, and gloves.
- Ensure the work area is well-lit and free of clutter.
- Keep children and bystanders away while operating the tool.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Disconnect the battery pack from the tool before making any adjustments, changing accessories, or storing the tool.
- Use the correct tool for your application. Do not force the tool.
- Maintain tools with care. Keep cutting tools sharp and clean.
- Store idle tools out of reach of children and untrained persons.

3. PRODUCT OVERVIEW AND COMPONENTS

The AEG BS12C2 LI-202B is a compact 12V cordless drill driver designed for various drilling and fastening applications. Key components include the chuck, torque adjustment collar, speed selector, trigger, and battery interface.



Figure 3.1: Front view of the AEG BS12C2 LI-202B 12V Drill Driver, showing the chuck, torque collar, and handle with battery attached.



Figure 3.2: Side view of the AEG BS12C2 LI-202B 12V Drill Driver, highlighting the compact design and ergonomic grip.



Figure 3.3: An AEG 18V Drill Driver, shown for size and design comparison with the 12V model. Note the larger battery and overall size.

Component List:

1. **Keyless Chuck:** For quick and easy bit changes.
2. **Torque Adjustment Collar:** Adjusts the clutch setting for driving screws.
3. **Speed Selector Switch:** Toggles between two speed ranges (Low/High).
4. **Forward/Reverse Selector:** Changes rotation direction.
5. **Variable Speed Trigger:** Controls drilling/driving speed.
6. **LED Work Light:** Illuminates the work area.

7. **Battery Pack:** 12V Li-ion battery.
8. **Battery Release Buttons:** For detaching the battery.

4. SETUP

4.1. Battery Installation and Charging

The tool operates on a 12V Lithium-Ion battery system. Ensure the battery is fully charged before first use.

- To install the battery: Align the battery pack with the base of the tool and slide it in until it clicks into place.
- To remove the battery: Press the battery release buttons on both sides of the battery pack and slide the battery out.
- Charging: Use the compatible AEG 12V charger (40 min charge time for 2.0Ah battery). Connect the charger to a power outlet and insert the battery pack. The charger indicator will show charging status.

4.2. Installing/Removing Drill Bits or Driver Bits

The drill features a keyless chuck for quick bit changes.

1. To open the chuck: Rotate the chuck collar counter-clockwise until the jaws are wide enough to insert the bit.
2. Insert the bit: Fully insert the drill bit or driver bit into the chuck.
3. To close the chuck: Rotate the chuck collar clockwise until the bit is securely clamped. Hand-tighten firmly.
4. To remove the bit: Rotate the chuck collar counter-clockwise to loosen the jaws and pull the bit out.

5. OPERATING INSTRUCTIONS

5.1. Selecting Speed

The drill driver has two speed settings, controlled by the speed selector switch located on top of the tool.

- **Speed 1 (Low):** 0-350 RPM. Ideal for high-torque applications like driving screws or drilling large diameter holes in wood.
- **Speed 2 (High):** 0-1500 RPM. Suitable for fast drilling in metal or smaller diameter holes.

5.2. Adjusting Torque

The torque adjustment collar allows you to set the clutch to prevent over-driving screws or damaging the workpiece. There are multiple settings, plus a drill mode.

- Rotate the collar to select the desired torque setting. Start with a lower setting and increase if the screw is not driven fully.
- For drilling, set the collar to the drill symbol (usually indicated by a drill bit icon) to bypass the clutch and provide maximum torque.

5.3. Forward/Reverse Operation

The forward/reverse selector switch is located above the trigger.

- Push the switch to the left for forward rotation (clockwise, for drilling and driving screws).
- Push the switch to the right for reverse rotation (counter-clockwise, for removing screws or backing out bits).
- Center position locks the trigger, preventing accidental starting.

5.4. Drilling and Driving

- **Drilling:** Select the drill mode on the torque collar. Choose the appropriate speed. Apply steady, even pressure.
- **Driving Screws:** Select a torque setting. Use a suitable driver bit. Apply firm pressure to prevent cam-out.
- The variable speed trigger allows for precise control over the drilling/driving speed. Press lightly for slower speeds, and increase pressure for higher speeds.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your drill driver.

- **Cleaning:** Keep the ventilation openings clear and clean. Use a soft, damp cloth to wipe down the tool. Do not use solvents or abrasive cleaners.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully discharged batteries for extended periods. Charge batteries regularly, even if not in use, to maintain their health.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits.
- **Inspection:** Regularly inspect the tool for any signs of damage, loose screws, or worn parts. Do not use a damaged tool.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or not properly inserted. Trigger lock engaged.	Charge battery. Re-insert battery firmly. Disengage trigger lock (center position of F/R switch).
Reduced power or speed.	Low battery charge. Overload.	Recharge battery. Reduce pressure or use a larger drill bit.
Bit slips in chuck.	Chuck not tightened sufficiently. Dirty chuck jaws.	Re-tighten chuck firmly. Clean chuck jaws.
Overheating.	Continuous heavy use. Blocked ventilation.	Allow tool to cool down. Clear ventilation openings.

8. SPECIFICATIONS

Feature	Detail
Model	BS12C2 LI-202B
Voltage	12V
Battery Type	Lithium-Ion
Battery Capacity	2.0 Ah
No-Load Speed (Speed 1)	0-350 RPM
No-Load Speed (Speed 2)	0-1500 RPM

Feature	Detail
Max Torque	34 Nm (25 Newton Meters / 1500 Inch Pounds)
Chuck Capacity	10 mm (Max Chuck Size: 13 mm)
Max Drilling Capacity (Wood)	20 mm
Max Drilling Capacity (Metal)	10 mm
Weight (with battery)	1.1 kg (2.64 pounds)
Dimensions (L x W x H)	3.54"L x 9.45"W x 13.39"H
Charger Compatibility	AEG 12V Charger (40 min for 2.0Ah)
Included Components	Drill Driver, 2 Batteries
Origin	Made in Germany

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the warranty card included with your product or visit the official AEG website. Keep your purchase receipt as proof of purchase.

For technical assistance or service, contact AEG customer service through their official channels. Do not attempt to repair the tool yourself.

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