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BLACK+DECKER BDSET02

BLACK+DECKER BDSET02 DIY Entry Set Instruction Manual

Electric Drill Driver, Jigsaw, and Sander

1. Introduction

Thank you for purchasing the BLACK+DECKER BDSET02 DIY Entry Set. This set includes three essential corded power tools: an electric drill driver, a jigsaw, and a sander. This manual provides important information on safe operation, setup, maintenance, and troubleshooting to help you achieve optimal performance and ensure your safety.

This comprehensive set is ideal for individuals embarking on DIY projects, enabling fundamental tasks such as screw driving, drilling, cutting, and sanding.

Included Components:

- Electric Drill Driver
- Jigsaw
- Sander
- Dust collection bag
- Sandpaper #60 x2
- Paper wrench
- 10TPI wood jigsaw blade
- 6TPI wood jigsaw blade
- Curved cut jigsaw blade
- Dust collector adapter
- Parallel guide
- #2 Phillips/#8 slotted double-ended bit
- #2 Phillips/#10 slotted double-ended bit
- Bit holder



Image 1.1: The BLACK+DECKER BDSET02 DIY Entry Set, featuring the electric drill driver, jigsaw, and sander.

2. General Safety Information

Always follow basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions carefully before operating any tool in this set.

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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety:

- Power tool plugs must match the outlet. Never modify the plug in any way.
- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, or moving parts. Damaged or entangled cords increase the risk of electric shock.

Personal Safety:

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Wear appropriate personal protective equipment (PPE) such as dust masks, non-skid safety shoes, hard hats, or hearing protection for relevant tasks.

- Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.

3. Setup Instructions

3.1. Electric Drill Driver Setup

The electric drill driver is designed for screw driving and drilling tasks. It features a compact design and corded power for continuous use without battery concerns.



Image 3.1.1: The BLACK+DECKER electric drill driver, a compact corded tool.

1. **Selecting the Bit:** Choose the appropriate drill bit for drilling or screwdriver bit for driving screws. The set includes #2 Phillips/#8 slotted and #2 Phillips/#10 slotted double-ended bits, along with a bit holder.
2. **Inserting the Bit:** Open the chuck jaws by rotating the chuck counter-clockwise. Insert the bit fully into the chuck. Tighten the chuck by rotating it clockwise until the bit is securely held.
3. **Adjusting Torque:** The drill driver features a 24-stage clutch setting. Rotate the torque collar to the desired setting. Lower settings are for driving small screws, higher settings for larger screws or drilling.
4. **Power Connection:** Ensure the tool is switched off before plugging it into a suitable power outlet.



Image 3.1.2: The electric drill driver being used to fasten a screw into wood.

3.2. Jigsaw Setup

The jigsaw is used for cutting various materials, including wood, plastic, and metal. It features a one-touch clamp for easy blade changes and an orbital mechanism for adjusting the cutting angle.



Image 3.2.1: The BLACK+DECKER jigsaw, highlighting its compact design and features.

1. **Selecting the Blade:** Choose the appropriate jigsaw blade for your material and cut type (e.g., 10TPI wood blade, 6TPI wood blade, curved cut blade).
2. **Inserting the Blade:** Utilize the one-touch clamp system to quickly insert or remove T/U shank blades without additional tools. Ensure the blade is fully seated and locked.
3. **Adjusting Orbital Action:** The jigsaw offers a 4-stage adjustable orbital mechanism to control the blade's cutting angle. Adjust this based on the material and desired cut aggressiveness.
4. **Attaching Parallel Guide:** For straight cuts, attach the parallel guide to the base of the jigsaw.
5. **Power Connection:** Ensure the tool is switched off before plugging it into a suitable power outlet.



Image 3.2.2: A user operating the BLACK+DECKER jigsaw to cut a metal sheet.

3.3. Sander Setup

The sander is used for smoothing surfaces and preparing materials for finishing. It includes a dust collection bag for a cleaner work environment.



Image 3.3.1: The BLACK+DECKER sander, showing its ergonomic design.

1. **Attaching Sandpaper:** Use the provided paper wrench to secure the #60 sandpaper (or other grit) to the sanding base. Ensure it is taut and properly aligned.
2. **Attaching Dust Bag:** Connect the dust collection bag to the dust port on the sander. This helps manage sawdust and keeps your work area cleaner.
3. **Power Connection:** Ensure the tool is switched off before plugging it into a suitable power outlet.



Image 3.3.2: A user operating the BLACK+DECKER sander on a wooden surface.

4. Operating Instructions

4.1. Electric Drill Driver Operation

1. **Starting the Tool:** Press the trigger switch to start the drill driver. The variable speed switch allows for precise speed control with a single finger.
2. **Drilling:** Apply steady, even pressure. For drilling, ensure the torque setting is high enough to prevent the clutch from slipping.
3. **Screw Driving:** Use a lower torque setting to avoid over-tightening or stripping screws. Increase the setting if the clutch slips too easily.
4. **Reversing Direction:** Use the forward/reverse selector switch, typically located above the trigger, to change the rotation direction for removing screws.
5. **Stopping the Tool:** Release the trigger switch.

4.2. Jigsaw Operation

1. **Starting the Tool:** Press the power switch to start the jigsaw.
2. **Cutting:** Place the base plate flat on the workpiece. Allow the blade to reach full speed before engaging the material. Guide the jigsaw along your cutting line with steady pressure.
3. **Curved Cuts:** For curved cuts, use a narrower blade and adjust the orbital action to a lower setting or off, if available, for finer control.
4. **Dust Extraction:** If using a dust collector adapter, ensure it is connected to a suitable vacuum system for efficient dust removal.
5. **Stopping the Tool:** Release the power switch.

4.3. Sander Operation

1. **Starting the Tool:** Press the power switch to start the sander.
2. **Sanding:** Place the sander flat on the workpiece. Apply light, even pressure and move the sander in overlapping passes. Avoid pressing too hard, as this can reduce efficiency and damage the surface.
3. **Dust Collection:** Regularly empty the dust collection bag to maintain optimal dust extraction performance.
4. **Stopping the Tool:** Release the power switch.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your BLACK+DECKER tools.

General Maintenance:

- **Cleaning:** After each use, wipe down the tools with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners. Keep ventilation openings clear of dust and debris.
- **Cord Inspection:** Periodically inspect power cords for damage, cuts, or fraying. Replace damaged cords immediately.
- **Storage:** Store tools in a dry, secure location out of reach of children.

Specific Tool Maintenance:

- **Drill Driver:** Check the chuck for wear and ensure it grips bits securely.
- **Jigsaw:** Inspect blades for sharpness and damage. Replace dull or bent blades to ensure clean cuts and prevent strain on the motor.
- **Sander:** Replace sandpaper when it becomes worn or clogged. Clean the dust collection bag regularly.

6. Troubleshooting

If you encounter issues with your BLACK+DECKER DIY Entry Set, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Tool does not start	No power supply; Damaged cord/plug; Faulty switch	Check power outlet; Inspect cord/plug for damage; Contact service center if switch is faulty.

Problem	Possible Cause	Solution
Drill driver clutch slips excessively	Torque setting too low; Bit is dull or incorrect size	Increase torque setting; Replace or sharpen bit.
Jigsaw blade not cutting straight	Dull or bent blade; Incorrect blade for material; Improper technique	Replace blade; Use correct blade type; Ensure base plate is flat and guide tool steadily.
Sander leaves swirl marks or uneven finish	Worn sandpaper; Excessive pressure; Incorrect grit sandpaper	Replace sandpaper; Apply lighter, even pressure; Use appropriate grit for the task.
Excessive vibration or noise	Loose components; Damaged accessory (blade/bit/sandpaper); Internal fault	Check for loose parts; Replace accessories; Discontinue use and contact service center.

For issues not covered here, please contact BLACK+DECKER customer support.

7. Specifications

Feature	Specification
Brand	BLACK+DECKER
Model Number	BDSET02
Product Type	DIY Entry Set (Electric Drill Driver, Jigsaw, Sander)
Power Source	Corded Electric
Electric Drill Driver:	
Power Consumption	90W
Rotation Speed	0-650 RPM
Max Tightening Torque	6.9 N·m
Clutch Settings	24 stages
Jigsaw:	
Stroke Length	19mm
Stroke Rate	0-3,000 strokes/min
Orbital Action	4-stage adjustable
Sander:	
Power Consumption	240W
Rotation Speed	7,000-15,000 RPM

8. Warranty and Support

This BLACK+DECKER BDSET02 DIY Entry Set comes with a**1-year warranty** from the date of purchase, covering defects in materials and workmanship under normal use.
For warranty claims, technical support, or service inquiries, please refer to the contact information provided with your product packaging or visit the official BLACK+DECKER website.
Please retain your proof of purchase for warranty validation.

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