

- › [BLACK+DECKER](#) /
- › [BLACK+DECKER 4-1/2-Inch 6.5-Amp Angle Grinder \(Model BDEG400\) Instruction Manual](#)

## BLACK+DECKER BDEG400

# BLACK+DECKER 4-1/2-Inch 6.5-Amp Angle Grinder (Model BDEG400) Instruction Manual

Your guide to safe and efficient operation

[Introduction](#)   [Safety](#)   [Components](#)   [Setup](#)   [Operation](#)   [Maintenance](#)   [Troubleshooting](#)  
[Specifications](#)   [Warranty & Support](#)

## 1. INTRODUCTION

The BLACK+DECKER 4-1/2-Inch 6.5-Amp Angle Grinder (Model BDEG400) is a versatile power tool designed for various tasks including sharpening, cutting, grinding, rust removal, and surface preparation. This manual provides essential information for safe and effective use of your angle grinder.



Image 1: The BLACK+DECKER BDEG400 Angle Grinder.

## 2. GENERAL SAFETY INFORMATION

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

### 2.1. Personal Safety

- **Wear appropriate personal protective equipment (PPE):** Always wear safety goggles or safety glasses with side shields, a dust mask, hearing protection, and heavy-duty gloves.
- **Dress properly:** Do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **Stay alert:** Watch what you are doing and use common sense. Do not use the tool while tired or under the influence of drugs, alcohol, or medication.

### 2.2. Electrical Safety

- **Avoid body contact with grounded surfaces:** For example, pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is 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.

## 2.3. Work Area Safety

- **Keep 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:** Distractions can cause you to lose control.

## 3. PRODUCT COMPONENTS

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Familiarize yourself with the main parts of your BLACK+DECKER Angle Grinder:



*Image 2: Key features of the angle grinder including the 3-Position Side Handle, One-Touch Release Switch, and Spindle Lock.*

- **3-Position Side Handle:** Provides adjustable comfort and control for various applications and angles.
- **One-Touch Release Switch:** Allows for quick power shutdown for enhanced safety.
- **Spindle Lock:** Facilitates easy and secure accessory changes.
- **Metal Gear Case:** Ensures durability and extends the tool's lifespan.

## 4. SETUP INSTRUCTIONS

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### 4.1. Attaching the Side Handle

The side handle can be installed in three different positions (left, right, or top) to suit your working preference and application. Simply screw the handle into the desired threaded hole on the gear case until it is secure.



*Image 3: The 3-position handle offers flexibility for user comfort and control.*

### 4.2. Installing/Changing Grinding Discs

1. **Ensure the tool is unplugged** from the power source before attempting any accessory changes.
2. **Press and hold the spindle lock button** located on the gear case.
3. **Use the provided spanner wrench** to loosen the outer flange nut by turning it counter-clockwise.
4. **Remove the outer flange nut and the old grinding disc.**
5. **Place the new 4-1/2 inch grinding disc** onto the inner flange, ensuring it is centered.
6. **Replace the outer flange nut** and tighten it clockwise using the spanner wrench while holding the spindle lock button. Ensure the disc is securely fastened.
7. **Adjust the wheel guard** to provide maximum protection for your specific application.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Powering On/Off

- To turn the grinder **ON**, slide the power switch forward. For continuous operation, push the switch fully forward until it locks into place.
- To turn the grinder **OFF**, press the one-touch release switch (if locked) or slide the power switch backward.

### 5.2. Grinding and Cutting Techniques

Always allow the grinder to reach full speed before contacting the workpiece. Apply moderate pressure and let the tool do the work. Avoid excessive force, which can cause kickback or damage to the disc and tool.

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*Image 4: The powerful 6.5-Amp motor delivers 10,000 RPM for efficient grinding and cutting.*  
For grinding, hold the tool at a 15-30 degree angle to the workpiece. For cutting, hold the tool perpendicular to the workpiece, ensuring the cutting disc is aligned with the cut line.



*Image 5: The angle grinder being used for cutting metal, generating sparks.*

### 5.3. Official Product Videos

Watch these official videos for a visual guide on the BLACK+DECKER Angle Grinder:

#### **BLACK+DECKER Angle Grinder Tool, 4-1/2-Inch, 6 Amp (BDEG400)**

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*Video 1: An official overview of the BLACK+DECKER BDEG400 Angle Grinder, highlighting its features and capabilities.*

#### **A live look at the Black & Decker Angle Grinder**

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*Video 2: A live demonstration of the Black & Decker Angle Grinder in action, showcasing its performance.*

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and extends the life of your angle grinder.

- **Cleaning:** Keep the tool's ventilation openings clean and free from debris. Use a soft brush or compressed air to remove dust and metal particles.
- **Cord Inspection:** Regularly inspect the power cord for any damage, cuts, or fraying. Replace damaged cords immediately.
- **Disc Inspection:** Before each use, check grinding and cutting discs for cracks, chips, or excessive wear. Replace damaged or worn discs.
- **Brush Inspection:** Carbon brushes may need periodic replacement. Refer to a qualified service technician for brush inspection and replacement.

## 7. TROUBLESHOOTING

If you encounter issues with your angle grinder, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	No power supply; Faulty switch; Worn carbon brushes	Check power outlet and cord; Ensure switch is fully engaged; Consult service center for brush replacement.
Excessive vibration	Damaged or unbalanced disc; Loose flange nut	Replace disc; Tighten flange nut securely.
Overheating	Blocked ventilation slots; Excessive load	Clean ventilation slots; Reduce pressure on workpiece; Allow tool to cool.
Sparks are excessive or unusual	Worn carbon brushes; Incorrect disc for material	Consult service center for brush replacement; Use appropriate disc for the material.

## 8. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	BLACK+DECKER
Model Number	BDEG400
Power Source	Corded Electric
Voltage	120 Volts
Wattage	800 watts
Maximum Rotational Speed	10000 RPM
Product Dimensions	12.5"L x 5.19"W x 4.63"H
Item Weight	4.4 pounds
Included Components	4 1/2" Small Angle Grinder, Metal Grinding Wheel, Spanner Wrench, Wheel Guard

## 9. WARRANTY AND SUPPORT

### 9.1. Warranty Information

This BLACK+DECKER Angle Grinder (Model BDEG400) comes with a**2-year limited manufacturer's warranty**. This warranty covers defects in material or workmanship. Please retain

your proof of purchase for warranty claims.

## **9.2. Customer Support**

For technical assistance, parts, or service, please contact BLACK+DECKER customer support. Visit the official BLACK+DECKER website or refer to the contact information provided in your product packaging.