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› BLACK+DECKER 945614-02 Switch Instruction Manual

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1. INTRODUCTION

This instruction manual provides essential information for the proper installation, safe operation, and maintenance of the BLACK+DECKER 945614-02 Switch. This component is designed as a replacement part for specific BLACK+DECKER and DeWalt power tools, primarily small angle grinders. Please read this manual thoroughly before attempting any installation or repair to ensure safety and optimal performance.



Figure 1: BLACK+DECKER 945614-02 Switch. This image shows the compact design of the switch, featuring a red and white plastic

housing, two metal screw terminals for electrical connections, and a black push-button actuator on the front face.

2. COMPATIBLE MODELS

The 945614-02 Switch is compatible with the following BLACK+DECKER and DeWalt models:

- D28114 Type 1, D28114 Type 2
- D28114N Type 1, D28114N Type 2
- D28144 Type 1, D28144 Type 2
- D28144N Type 1, D28144N Type 2
- D28402 Type 1, D28402 Type 2
- D28402B Type 2
- D28402K Type 1, D28402K Type 2
- D28402N Type 1, D28402N Type 2
- DWE46044 Type 1

Always verify the part number in your tool's manual or on the existing switch before purchasing to ensure correct compatibility.

3. SAFETY INFORMATION

WARNING: Always disconnect the power tool from its power source before performing any assembly, adjustments, or repairs. Failure to do so can result in serious personal injury or electric shock.

- Ensure the power tool is unplugged before beginning any work.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- If you are unsure about the installation process, consult a qualified technician.
- This switch is designed for 110 volts AC applications. Ensure your tool's voltage matches this requirement.
- Keep children and bystanders away from the work area.

4. INSTALLATION (SETUP)

Replacing the switch requires basic electrical and mechanical knowledge. If you are not comfortable with these procedures, seek professional assistance.

1. **Disconnect Power:** Unplug the power tool from the electrical outlet.
2. **Access the Switch:** Carefully open the housing of your power tool to access the existing switch. This usually involves removing screws. Note the position and routing of all wires.
3. **Document Connections:** Before disconnecting any wires, take clear photos or draw a diagram of the existing wire connections to the old switch. This is crucial for correct reassembly.
4. **Remove Old Switch:** Disconnect the wires from the old switch. These are typically spade connectors that slide off or screw terminals that need to be loosened. Remove any mounting screws or clips holding the old switch in place.
5. **Install New Switch:** Position the new BLACK+DECKER 945614-02 Switch in the tool's housing. Secure it with any original mounting hardware.
6. **Connect Wires:** Refer to your photos or diagram and connect the wires to the new switch's terminals. Ensure all connections are secure and tight. For screw terminals, ensure no stray wire strands are exposed.

7. **Reassemble Housing:** Carefully close the tool's housing, ensuring no wires are pinched. Secure all screws.
8. **Test Functionality:** Plug the tool into a power outlet. Briefly test the switch to ensure it operates correctly (turns the tool on and off). Observe for any unusual noises or smells. If any issues arise, immediately unplug the tool and re-check connections.

5. OPERATION

The 945614-02 Switch functions as a standard on/off mechanism for your power tool. Once installed, operate the switch according to your tool's original operating instructions.

- **To Activate:** Press the switch button or engage the paddle mechanism.
- **To Deactivate:** Release the switch button or paddle mechanism.

Always ensure the tool is in a safe position and you have a firm grip before activating the switch.

6. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your switch and power tool.

- **Regular Inspection:** Periodically inspect the switch for any signs of damage, wear, or loose connections.
- **Cleaning:** Keep the switch area free from dust, debris, and moisture. Use a dry, soft cloth for cleaning. Do not use solvents or abrasive cleaners.
- **Storage:** Store the power tool in a clean, dry environment when not in use.

7. TROUBLESHOOTING

If you encounter issues after installing the new switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not turn on.	No power to the tool. Loose or incorrect wiring. Faulty switch (unlikely if new).	Check power outlet and circuit breaker. Disconnect power and re-check all wire connections against your diagram. If all else fails, consult a professional.
Tool does not turn off.	Switch mechanism stuck or faulty. Incorrect wiring.	Immediately unplug the tool. Disconnect power and inspect the switch for any obstructions. Re-check wiring. Replace switch if necessary.
Sparkling or smoke from tool.	Short circuit or severe electrical fault.	Immediately unplug the tool. Do not use. Seek professional repair.

8. SPECIFICATIONS

Brand	BLACK+DECKER
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Model Number	945614-02
Part Number	945614-02
Material	Plastic
Voltage	110 Volts (AC)
Item Weight	0.16 ounces (approx. 4.54 g)
Product Dimensions	Approximately 6 x 6 x 6 inches (packaging dimensions, actual switch is smaller)
UPC	704660040306

Note: Specifications are subject to change without notice for product improvement.

9. WARRANTY INFORMATION

This BLACK+DECKER replacement part is typically covered by a limited warranty against defects in material or workmanship. For specific warranty terms and conditions, please refer to the warranty documentation provided with your original power tool or visit the official BLACK+DECKER website. Keep your purchase receipt as proof of purchase.

10. CUSTOMER SUPPORT

For technical assistance, replacement parts, or service information, please contact BLACK+DECKER customer support. You can find contact details on the official BLACK+DECKER website or in the original manual of your power tool.

Online Resources: www.blackanddecker.com