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› Carlon BH353A 3-Gang New Work Switch/Outlet Box Instruction Manual

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1. INTRODUCTION

The Carlon BH353A is a 3-gang new work switch/outlet box designed for electrical installations. It is constructed from durable polyvinyl chloride (PVC) material and features a blue color. This box is intended for use with non-metallic sheathed cable and offers a generous 53 cubic-inch capacity, providing ample space for wiring multiple devices. Its robust design ensures longevity and resistance to environmental factors.

2. SAFETY INFORMATION

Please read and understand all safety instructions before beginning installation. Failure to follow these instructions may result in electric shock, fire, or property damage.

- **ALWAYS DISCONNECT POWER:** Before installing, servicing, or removing any electrical components, ensure power is disconnected at the circuit breaker or fuse box. Verify power is off using a voltage tester.
- **QUALIFIED ELECTRICIAN:** If you are unsure about any part of the installation process, consult a qualified electrician.
- **LOCAL CODES:** All installations must comply with national and local electrical codes and regulations.
- **CABLE TYPE:** This product is designed for use with non-metallic sheathed cable only.
- **PRODUCT INTEGRITY:** Do not use the box if it appears damaged or compromised.

3. PRODUCT OVERVIEW

3.1 Features

- 3-Gang design for multiple devices.
- New Work installation type, ideal for new construction.
- Largest wire fill capacity in its class (53 cubic inches).
- Constructed from durable PVC, resisting cracking or breaking in extreme environments.
- Maintains shape and resists flexing.
- Molded-in flanges and clamps for secure cable entry and faster installation.
- UL Approved for safety and quality assurance.

3.2 Components

The Carlon BH353A box consists of a single-piece polyvinyl chloride (PVC) body with integrated nail-on mounting brackets and molded-in cable clamps. It features three distinct compartments (gangs) to accommodate multiple electrical devices.

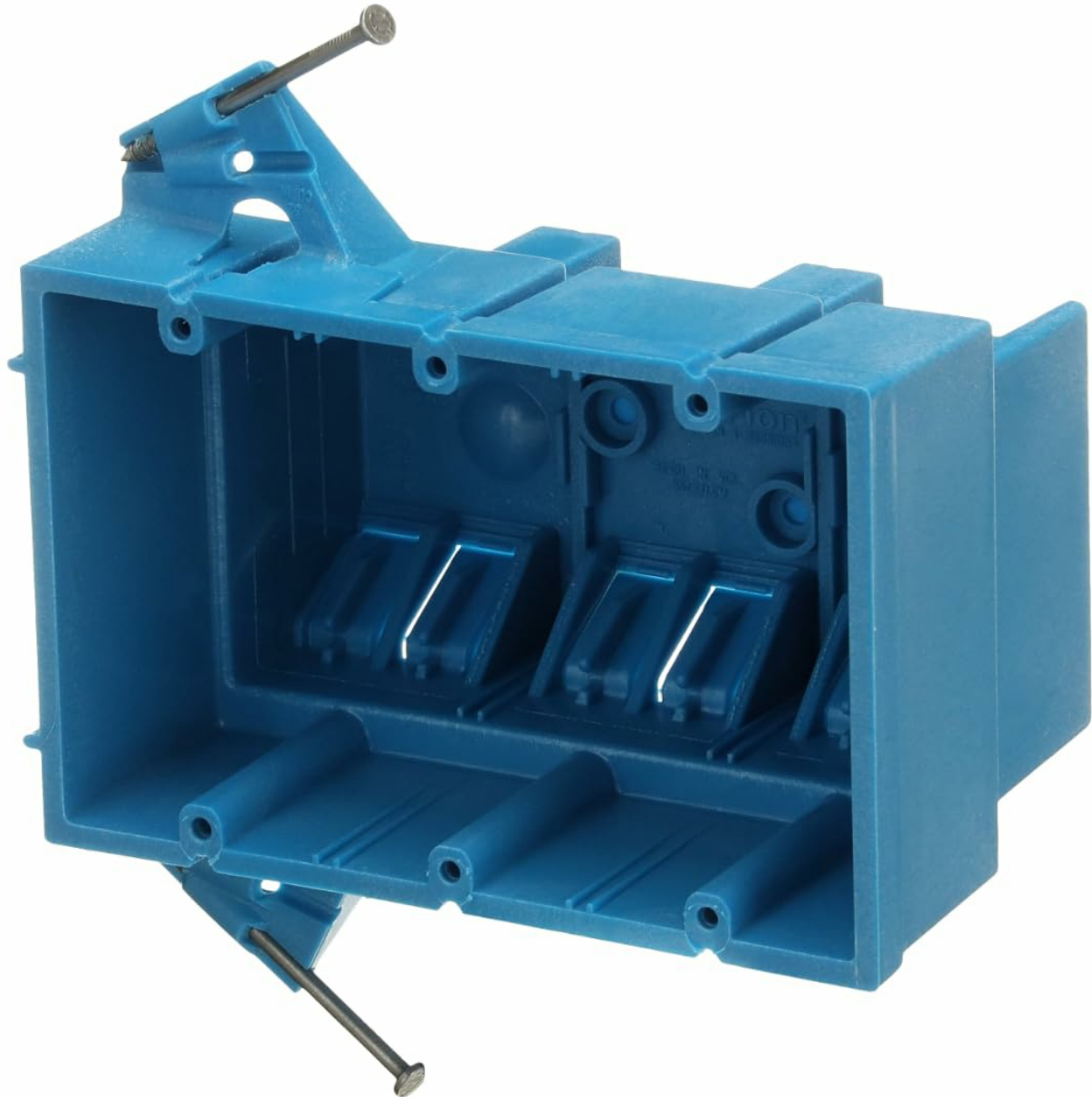


Figure 1: Perspective view of the Carlon BH353A 3-Gang New Work Switch/Outlet Box, showing its blue PVC construction and integrated nail-on mounting brackets.

4. SETUP AND INSTALLATION

The Carlon BH353A is designed for 'new work' installations, meaning it is typically installed before drywall or other wall finishes are applied.

1. **Prepare the Location:** Identify the desired location for the electrical box between wall studs. Ensure there is sufficient space and that the location complies with all electrical codes.
2. **Position the Box:** Place the box against the side of a wall stud. The front edge of the box should be flush with the

anticipated finished wall surface (e.g., drywall).

3. **Secure the Box:** Use the integrated nail-on mounting brackets to secure the box firmly to the stud. Drive the pre-installed nails through the brackets into the stud until the box is stable and flush.
4. **Run Cable:** Bring the non-metallic sheathed electrical cable into the box through the designated cable entry points. The molded-in clamps will automatically secure the cable once it is pushed through, preventing it from being pulled out. Ensure sufficient cable length is left inside the box for connections.
5. **Wire Connections:** Strip the outer jacket and insulation from the individual conductors of the cable. Connect the wires to the appropriate electrical devices (switches, outlets) according to the device manufacturer's instructions and local electrical codes.
6. **Mount Devices:** Once wiring is complete, mount the electrical devices into the box using the provided screw holes.



Figure 2: Front view of the Carlon BH353A box, highlighting the three gangs and internal structure for device mounting.



Figure 3: Side view of the Carlon BH353A box, showing the model number label and the design of the nail-on mounting bracket.

5. OPERATING

Once properly installed and wired, the Carlon BH353A switch/outlet box functions as a protective enclosure for electrical devices and wiring. It ensures that electrical connections are safely contained within the wall structure, preventing accidental contact and maintaining the integrity of the electrical system. The box itself does not have operational controls; its function is passive containment and support for active electrical components.

6. MAINTENANCE

The Carlon BH353A switch/outlet box is designed for long-term, maintenance-free operation. No routine cleaning or servicing of the box itself is required. In the event of any electrical issues or if the box becomes physically damaged, it is recommended to:

- Disconnect power to the circuit immediately.
- Inspect the box and wiring for visible damage.
- Consult a qualified electrician for inspection and repair or replacement if necessary.

7. TROUBLESHOOTING

As a passive electrical enclosure, the Carlon BH353A box does not typically have 'troubleshooting' steps in the traditional sense. Most issues related to an electrical box would stem from improper installation or damage. If you experience any of the following, consider these points:

- **Loose Devices:** If switches or outlets feel loose, ensure the mounting screws are tightened securely to the box.
- **Electrical Malfunction:** If an electrical device (switch, outlet) installed in the box is not functioning, the issue is likely with the device itself, the wiring connections, or the circuit. Always disconnect power and check wiring connections for tightness and correctness.
- **Physical Damage:** If the box is cracked or broken, it must be replaced to maintain electrical safety and integrity.

For any persistent electrical problems, always contact a licensed electrician.

8. SPECIFICATIONS

Specification	Detail
Brand	Carlon
Model Number	BH353A
Material	Polyvinyl Chloride (PVC)
Color	Blue
Style	New Work
Product Dimensions (D x W x H)	3.5" x 3.53" x 7.46"
Installation Type	Nail-On
Capacity	53 Cubic Inches
Approval	UL
UPC	034481145851

9. WARRANTY INFORMATION

Thomas & Betts (T&B), the manufacturer, warrants that its products will be free from defects in material and workmanship for a period of two years from the date of shipment. Upon prompt notification of a warranted defect, T&B will, at its option, repair or replace any products found to be defective. In no event will T&B be liable for any consequential, indirect, or special damages, nor shall T&B be liable for transportation, labor, or other charges arising out of the removal or

reinstallation of its products. Liability for breach of warranty is limited to the cost of repair or replacement of the warranted product.

10. SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding the Carlon BH353A switch/outlet box, please refer to the official Carlon website or contact their customer service department. Always provide the model number (BH353A) when seeking support.

Carlon Official Website: www.carlon.com (Note: This is a placeholder link as specific support contact information was not provided.)

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