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> [ARLINGTON GC50 1/2 Inch Zinc Ground Clamp Instruction Manual](#)

## ARLINGTON GC50

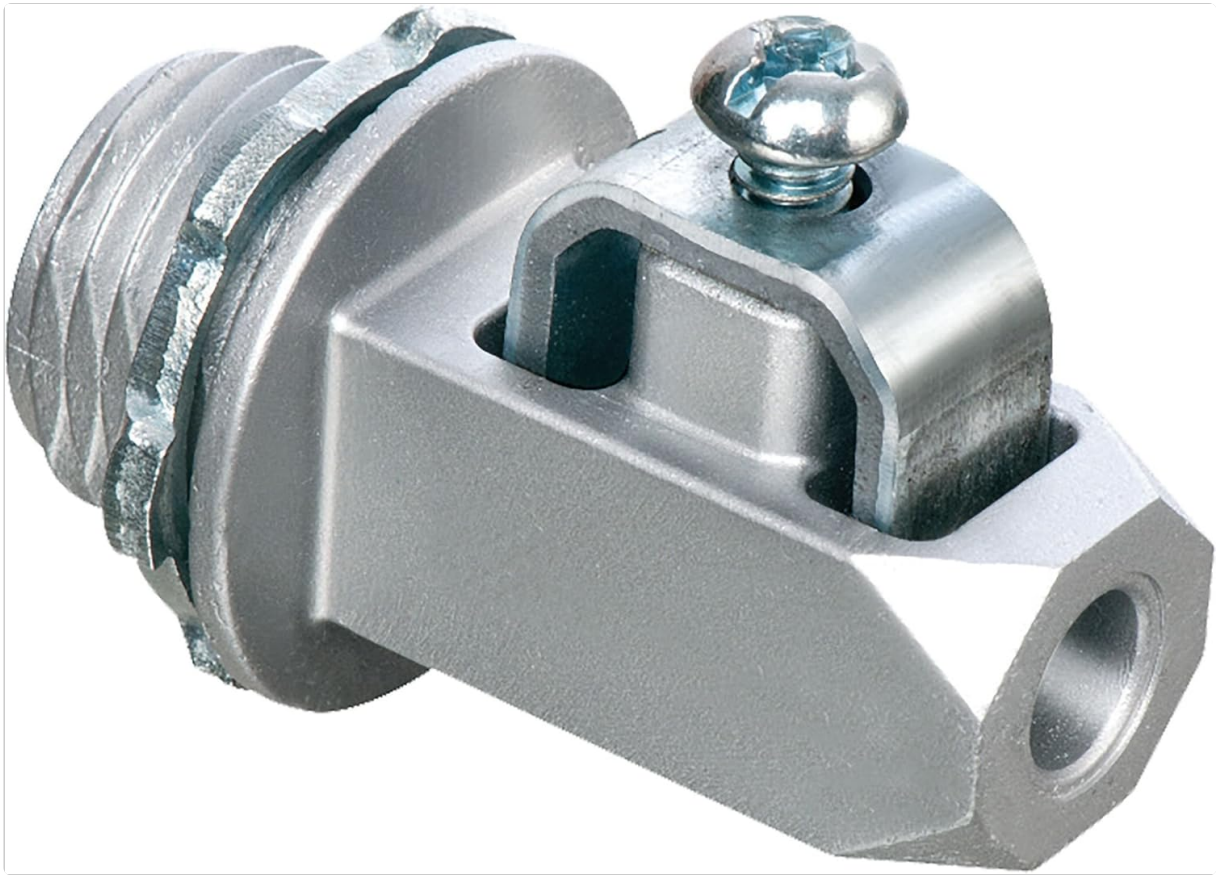
# ARLINGTON GC50 1/2 Inch Zinc Ground Clamp Instruction Manual

Model: GC50 | Brand: ARLINGTON

## 1. PRODUCT OVERVIEW

The ARLINGTON GC50 is a 1/2 inch zinc ground clamp designed for secure electrical bonding and grounding applications. This connector offers a flexible, convenient, and cost-effective solution for terminating grounding electrode conductors. It is suitable for use with both stranded and solid copper and aluminum wire.

The GC50 is engineered to install easily from either the inside or outside of a metal panel or enclosure, utilizing an existing 1/2-inch knockout. It eliminates the need for separate lugs on a load center frame and provides strain relief for grounding conductors. This product is cULus listed, ensuring compliance with safety standards.



**Figure 1:** ARLINGTON GC50 1/2 Inch Zinc Ground Clamp. This image shows the silver-colored zinc ground clamp with its threaded end, securing screw, and wire entry point.

## 2. SPECIFICATIONS

- **Model Number:** GC50
- **Manufacturer:** Arlington
- **Part Number:** GC50
- **Material:** Zinc (clamp body), compatible with copper and aluminum wire
- **Color:** Silver
- **Product Dimensions:** 1 x 1.5 x 1 inches
- **Item Weight:** 1.76 ounces
- **Knockout Size:** 1/2 Inch
- **Wire Compatibility:** Stranded and solid copper and aluminum wire
- **Certifications:** cULus Listed
- **First Available Date:** August 2, 2017

## 3. INSTALLATION INSTRUCTIONS

The ARLINGTON GC50 ground clamp is designed for straightforward installation in metal panels or enclosures. Follow these steps for proper installation:

1. **Prepare the Knockout:** Ensure the metal panel or enclosure has a standard 1/2-inch knockout available for installation. Remove the knockout if not already done.
2. **Insert the Clamp:** Insert the threaded end of the GC50 ground clamp through the 1/2-inch knockout. This can be done from either the inside or outside of the enclosure.
3. **Secure the Clamp:** On the opposite side of the panel, thread the locking nut (typically included with

the clamp or part of the design) onto the threaded end of the GC50. Tighten the nut securely to firmly attach the clamp to the panel.

4. **Prepare the Grounding Conductor:** Strip the insulation from the end of the grounding conductor (copper or aluminum wire) to expose the appropriate length of bare wire for insertion into the clamp's terminal.
5. **Connect the Conductor:** Insert the bare grounding conductor into the wire entry port of the GC50 clamp.
6. **Tighten the Set Screw:** Use an appropriate screwdriver to tighten the set screw on the clamp. Ensure the screw makes firm contact with the grounding conductor, providing a secure electrical connection and strain relief. Do not overtighten, but ensure the wire is held firmly and cannot be easily pulled out.
7. **Verify Connection:** After tightening, gently tug on the wire to confirm it is securely fastened and the connection is robust.

*Note: Always ensure power is disconnected before performing any electrical work. Consult local electrical codes and a qualified electrician if you are unsure about any installation steps.*

## 4. USAGE

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The ARLINGTON GC50 ground clamp is used for bonding and grounding separately derived systems. Its primary function is to provide a reliable connection point for grounding electrode conductors to metal enclosures or panels, ensuring electrical safety and proper system operation.

Once installed, the GC50 facilitates the termination of grounding conductors, contributing to the overall integrity of the electrical grounding system. It is designed to maintain a secure connection under normal operating conditions.

## 5. MAINTENANCE

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The ARLINGTON GC50 ground clamp is designed for long-term reliability with minimal maintenance. However, periodic inspection is recommended to ensure continued performance and safety:

- **Visual Inspection:** Periodically inspect the clamp and its connections for any signs of corrosion, damage, or loosening.
- **Connection Integrity:** Ensure the set screw remains tight and the grounding conductor is securely held. If any loosening is observed, disconnect power and re-tighten the screw.
- **Environmental Factors:** If installed in harsh environments, check for excessive moisture, dust, or chemical exposure that could degrade the connection over time.

*Caution: Do not attempt to perform maintenance on live electrical circuits. Always ensure power is off and verified before touching any electrical components.*

## 6. TROUBLESHOOTING

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If you encounter issues with your ARLINGTON GC50 ground clamp, consider the following common troubleshooting steps:

- **Loose Connection:** If the grounding conductor feels loose or there are signs of intermittent grounding, disconnect power and re-tighten the set screw. Ensure the wire is properly stripped and fully inserted.

- **Corrosion:** In corrosive environments, inspect for rust or oxidation on the clamp or wire. If severe, the clamp may need to be replaced. Ensure proper environmental protection for electrical installations.
- **Improper Installation:** Review the installation instructions (Section 3) to ensure all steps were followed correctly, particularly regarding knockout size and secure tightening.
- **Grounding Issues:** If general grounding issues persist after verifying the clamp connection, consult a qualified electrician to inspect the entire electrical system.

## 7. WARRANTY AND SUPPORT

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For specific warranty information, technical support, or replacement parts for your ARLINGTON GC50 1/2 Inch Zinc Ground Clamp, please contact ARLINGTON Industries directly through their official website or customer service channels.

You can typically find contact information and detailed warranty policies on the manufacturer's official website: [www.arlingtonc.com](http://www.arlingtonc.com)