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› THE CIMPLE CO 10-32 Self-Tapping Ground Screws - 1/2 inch (13mm) Hex Head Electrical Grounding Screws

THE CIMPLE CO CMP-GRND-SCRW-GRN-ST-100P

THE CIMPLE CO 10-32 Self-Tapping Ground Screws

Instruction Manual

INTRODUCTION

This manual provides essential information for the proper installation and use of THE CIMPLE CO 10-32 Self-Tapping Ground Screws. These screws are designed to secure ground wires effectively in various electrical applications, ensuring a safe and reliable electrical system. Please read these instructions carefully before proceeding with installation.



Figure 1: THE CIMPLE CO 10-32 Self-Tapping Ground Screws. These screws are designed for secure electrical grounding connections.

SAFETY INFORMATION

Always prioritize safety when working with electrical components. Improper installation or handling can lead to electrical shock, fire, or other hazards. If you are unsure about any part of the installation process, consult a qualified electrician.

- Ensure power is disconnected at the circuit breaker before beginning any electrical work.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves.
- Verify that all connections are secure and meet local electrical codes.
- Do not use damaged screws or tools.

PACKAGE CONTENTS

Your package should contain the following items:

- Electrical Grounding Screws (Quantity: 100)

PRODUCT SPECIFICATIONS

Thread Size	#10-32
Head Style	5/16-Inch (8-mm) Hex with Flathead Slot
Length	Approximately 1/2 inch (13 mm)
Material	Stainless Steel
Exterior Finish	Green
Compatibility	Ground Wire, Solid Copper Wire, Stranded Copper Wire, Switches, Electrical Circuit Boxes, Outlet Boxes, and other compatible grounding combinations.



Figure 2: Ground Screw Dimensions. The screw measures approximately 1/2 inch (13 mm) in length with a 5/16 inch (8 mm) head diameter.

INSTALLATION INSTRUCTIONS

These self-tapping ground screws are designed for straightforward installation in electrical circuit and outlet boxes. Follow these steps for a secure grounding connection:

1. **Prepare the Electrical Box:** Ensure the electrical box has a threaded ground hole or a suitable edge for self-

tapping. For unthreaded holes, a pilot hole (recommended #22 or 5/32 drill bit) may be necessary to facilitate easier installation, especially in deeper metal boxes.

2. **Prepare the Ground Wire:** Strip approximately 1/2 to 3/4 inch of insulation from the end of the ground wire (typically bare copper or green insulated). Form a clockwise loop at the end of the wire.
3. **Position the Wire:** Place the looped ground wire under the head of the green grounding screw. Ensure the loop is snug around the screw shaft and positioned so that tightening the screw will pull the wire tighter, not loosen it.
4. **Insert and Tighten the Screw:** Insert the screw with the ground wire into the designated ground hole. Use a 5/16-inch (8mm) hex driver or a flathead screwdriver to tighten the screw. Tighten until the screw is firmly seated and the ground wire is securely clamped against the electrical box. Do not overtighten.



Figure 3: THE CIRCLE CO Self-Tapping Ground Screws. These screws feature a hex head and self-tapping threads for secure electrical grounding.



Figure 4: Compatible Tooling. The screw head is designed for a 5/16-inch (8mm) hex driver or a flathead screwdriver.

INTENDED USE

These ground screws are intended for establishing a reliable electrical ground connection in residential, commercial, and industrial electrical installations. They are suitable for:

- Securing ground wires to metal electrical circuit boxes.
- Grounding electrical outlet boxes.
- Connecting various devices requiring a secure ground.
- Use with solid or stranded copper wires.

MAINTENANCE

THE CIMPLE CO Self-Tapping Ground Screws are constructed from durable stainless steel with a corrosion-resistant finish, requiring minimal maintenance. Periodically inspect electrical connections for tightness and signs of corrosion, especially in outdoor or high-humidity environments. If any corrosion or loosening is observed, power should be disconnected, and the connection should be re-secured or replaced as necessary.

TROUBLESHOOTING

- **Difficulty Threading:** If the screw is hard to turn or does not thread easily into an unthreaded hole, consider pre-drilling a pilot hole using a #22 or 5/32 inch drill bit. This can ease installation, particularly in thick metal.
- **Loose Connection:** Ensure the ground wire is properly looped clockwise around the screw shaft and tightened sufficiently. A loose connection can compromise grounding effectiveness.
- **Damaged Screw Head:** If the screw head becomes stripped during installation, replace the screw. Using the correct size hex driver or flathead screwdriver can prevent this.

SUPPORT AND CONTACT INFORMATION

For further assistance or inquiries regarding THE CIMPLE CO 10-32 Self-Tapping Ground Screws, please contact THE CIMPLE CO directly. Refer to the product packaging or the official brand website for the most current contact details.

Manufacturer: THE CIMPLE CO

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