

## Master-Bilt MSB03-14980

# Master-Bilt 03-14980 Compressor Relay User Manual

Model: MSB03-14980

## 1. INTRODUCTION

This document provides essential instructions for the installation, operation, and maintenance of the Master-Bilt 03-14980 Compressor Relay. This relay is designed for use with AWA2460ZXD compressor systems. Please read this manual thoroughly before attempting any installation or service to ensure proper function and safety.

## 2. SAFETY INFORMATION

**WARNING:** Electrical shock hazard. Disconnect power before servicing. Installation and maintenance should only be performed by qualified personnel.

- Always disconnect power to the compressor unit before installing, removing, or servicing the relay.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the compressor system with a damaged or improperly installed relay.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.

## 3. PRODUCT OVERVIEW

The Master-Bilt 03-14980 is a compressor relay designed to manage the electrical current to the compressor motor, facilitating its start and stop cycles. It features a Normally Open contact type and is rated for 3 Amps. This component is crucial for the automatic operation of compatible refrigeration systems.

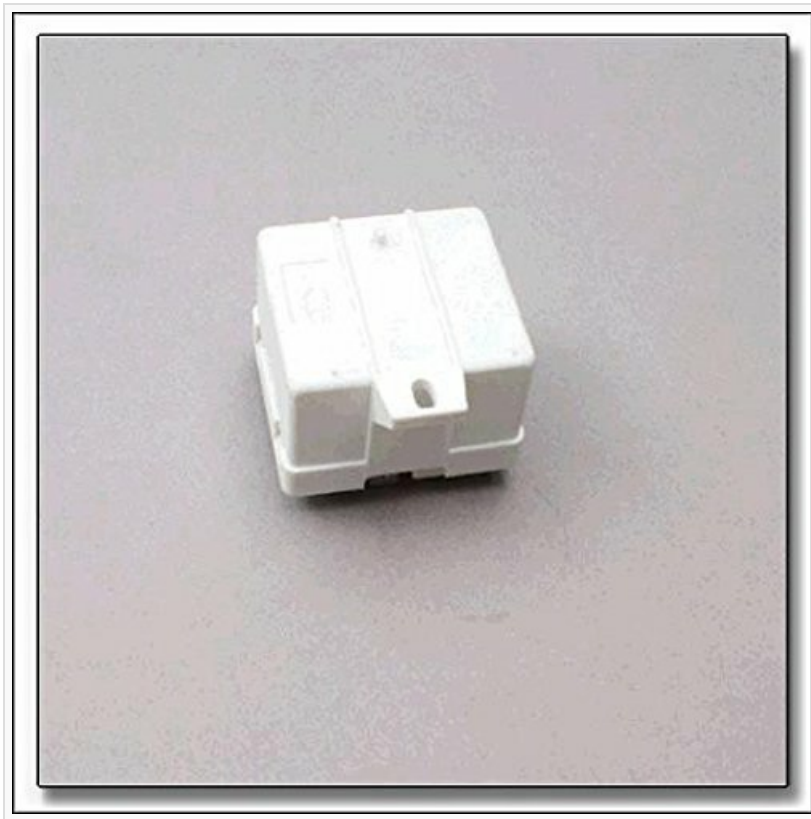


Figure 1: Master-Bilt 03-14980 Compressor Relay. This image shows the compact, white plastic housing of the relay, designed for electrical control within a compressor system.

## 4. SETUP AND INSTALLATION

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Installation of the compressor relay should only be performed by a certified technician. Incorrect installation can lead to equipment damage or personal injury.

1. **Power Disconnection:** Ensure the main power supply to the refrigeration unit is completely disconnected and locked out.
2. **Locate Old Relay:** Identify the existing compressor relay within the control panel or compressor housing.
3. **Disconnect Wiring:** Carefully label and disconnect all wires from the old relay. Note their positions.
4. **Remove Old Relay:** Detach the old relay from its mounting.
5. **Install New Relay:** Mount the Master-Bilt 03-14980 relay in the same position as the old one.
6. **Connect Wiring:** Reconnect the labeled wires to the corresponding terminals on the new relay. Double-check all connections for security and correctness.
7. **Secure Components:** Ensure all covers and panels are securely reinstalled.
8. **Restore Power:** Restore power to the unit and observe for proper operation.

## 5. OPERATING INSTRUCTIONS

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The Master-Bilt 03-14980 Compressor Relay operates automatically as part of the refrigeration system's control circuit. Once properly installed, it will engage and disengage the compressor motor based on the signals received from the system's thermostat or other control devices.

- Ensure the refrigeration unit is powered on.
- The relay will automatically activate the compressor when cooling is required and deactivate it when the desired temperature is reached.

- No manual intervention is typically required for the relay's operation.

## 6. MAINTENANCE

The Master-Bilt 03-14980 Compressor Relay is designed for reliable, long-term operation with minimal maintenance. However, periodic inspection is recommended.

- **Visual Inspection:** Annually inspect the relay for any signs of physical damage, discoloration, or loose connections.
- **Connection Check:** Ensure all electrical connections to the relay are tight and free from corrosion.
- **Cleaning:** If necessary, gently clean the exterior of the relay with a dry, soft cloth to remove dust or debris. Do not use liquids.
- **Replacement:** If the relay shows signs of malfunction or damage, it should be replaced by a qualified technician.

## 7. TROUBLESHOOTING

If the compressor system is not functioning correctly, consider the following troubleshooting steps related to the relay. Always disconnect power before inspecting components.

- **Compressor Not Starting:**
  - Check if the main power supply to the unit is active.
  - Verify that the thermostat or control system is calling for cooling.
  - Inspect the relay for visible damage or burnt contacts.
  - Ensure all wiring connections to the relay are secure.
- **Compressor Cycling Rapidly:**
  - This could indicate an issue with the relay, thermostat, or other system components. Consult a technician.
- **Unusual Noises from Relay:**
  - A buzzing or clicking sound might indicate a faulty relay or an issue with the power supply.

If troubleshooting steps do not resolve the issue, contact a qualified service technician.

## 8. SPECIFICATIONS

Feature	Detail
Brand	Master-Bilt
Model Number	MSB03-14980 (03-14980)
Compatible With	GE 3ARR3-K3P4 for AWA2460ZXD Compressor
Contact Type	Normally Open
Current Rating	3 Amps
Operation Mode	Automatic

Product Dimensions	7 x 7 x 7 inches
Weight	3.2 ounces
UPC	220215085368, 046843106196




## 9. WARRANTY INFORMATION




For specific warranty details regarding the Master-Bilt 03-14980 Compressor Relay, please refer to the documentation provided by the original manufacturer or contact Master-Bilt directly. Warranty terms may vary based on purchase location and date.

## 10. CUSTOMER SUPPORT

If you require further assistance, technical support, or replacement parts, please contact Master-Bilt customer service or your authorized distributor. Provide your product model number (MSB03-14980) when seeking support.

### Related Documents - MSB03-14980

	<p><a href="#">Master-Bilt Split-Pak A2L Remote Refrigeration Systems: Features, Specifications, and Model Guides</a></p> <p>Explore the Master-Bilt Split-Pak A2L™ Remote Refrigeration Systems, engineered for efficiency, easy setup, and performance in high-temperature environments. This document details condensing units, evaporator coils, LogiTemp electronic controller systems, and model number guides.</p>
	<p><a href="#">Master-Bilt COLDIN-3 Series Display Freezers: Installation and Operations Manual</a></p> <p>Comprehensive installation and operations manual for Master-Bilt COLDIN-3 Series MSC-A and MSF-A model display freezers. Covers transportation, installation, operation, storage, defrosting, maintenance, troubleshooting, and safety guidelines.</p>
	<p><a href="#">Master-Bilt Refrigeration Products: Just The Facts - Product Guide</a></p> <p>Explore Master-Bilt's comprehensive range of commercial refrigeration solutions, including display merchandisers, walk-in coolers and freezers, and advanced refrigeration systems. This guide provides essential product facts and specifications.</p>

 <p><b>MASTER-BILT CAPSULE PAK™</b> Two-Piece Remote Refrigeration System</p> <p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Two-piece remote refrigeration system designed for walk-in coolers and freezers.</li> <li>• Energy efficient with low operating costs.</li> <li>• Food safety benefits with precise temperature control.</li> <li>• Easy installation and maintenance.</li> </ul> <p><b>OPTIONS</b></p> <ul style="list-style-type: none"> <li>• Various door styles and finishes.</li> <li>• Different interior shelving options.</li> <li>• Customized lighting systems.</li> </ul>	<p><a href="#">Master-Bilt Capsule Pak Two-Piece Remote Refrigeration Systems</a></p> <p>Master-Bilt's Capsule Pak is a two-piece remote refrigeration system designed for walk-in coolers and freezers. This document outlines the features, specifications, and model options for these systems, highlighting their energy efficiency, food safety benefits, and ease of installation.</p>
 <p><b>MASTER-BILT BILT2SPEC™</b> Custom Walk-In Coolers &amp; Freezers</p> <p><b>STANDARD FEATURES</b></p> <ul style="list-style-type: none"> <li>• Customizable walk-in coolers and freezers.</li> <li>• High-quality insulation and construction.</li> <li>• Durable doors with multiple locking options.</li> </ul> <p><b>OPTIONS &amp; ACCESSORIES</b></p> <ul style="list-style-type: none"> <li>• Various door styles and finishes.</li> <li>• Different interior shelving options.</li> <li>• Customized lighting systems.</li> </ul>	<p><a href="#">Master-Bilt BILT2SPEC™ Custom Walk-In Coolers &amp; Freezers Specifications</a></p> <p>Detailed specifications for Master-Bilt BILT2SPEC™ custom walk-in coolers and freezers, covering standard features, options, approvals, construction, insulation, finishes, doors, installation, maintenance, warranties, and quality assurance for architects and consultants.</p>
 <p><b>MASTER-BILT IM-23GB</b> Ice Merchandiser</p> <p><b>IM-23GB Installation &amp; Operations Manual</b> With TLY 25 Controller</p>	<p><a href="#">Master-Bilt IM-23GB Ice Merchandiser: Installation and Operations Manual</a></p> <p>This comprehensive manual guides users through the installation, operation, and servicing of the Master-Bilt IM-23GB Ice Merchandiser, equipped with the TLY 25 Controller. It covers safety, operation, maintenance, troubleshooting, and parts.</p>