

Master-Bilt MB19-00816

Master-Bilt 19-00816 Timer Unit on Bracket Instruction Manual

Model: MB19-00816

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of the Master-Bilt 19-00816 Timer Unit on Bracket. This unit is designed for use in commercial refrigeration systems, specifically as a freezer part, to control operational cycles. Adherence to these instructions will ensure optimal performance and longevity of the timer unit.

2. PRODUCT OVERVIEW

The Master-Bilt 19-00816 is a timer unit pre-mounted on a bracket, facilitating easier installation into compatible refrigeration systems. It features a mechanical timer dial for setting operational schedules and includes necessary electrical connections for integration.

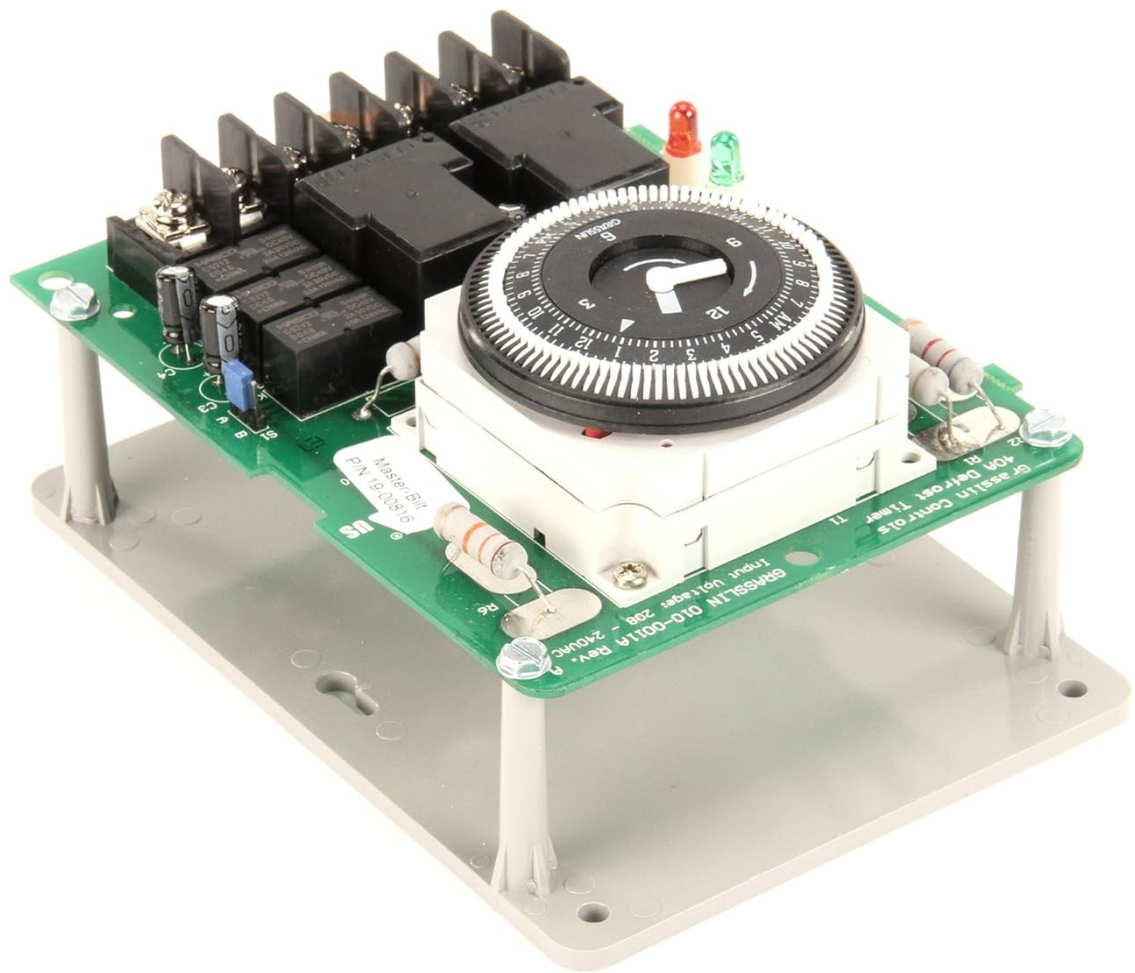


Figure 2.1: Overall view of the Master-Bilt 19-00816 Timer Unit on Bracket. This image displays the complete assembly, including the green circuit board, the central timer dial, relays, and the grey mounting bracket.

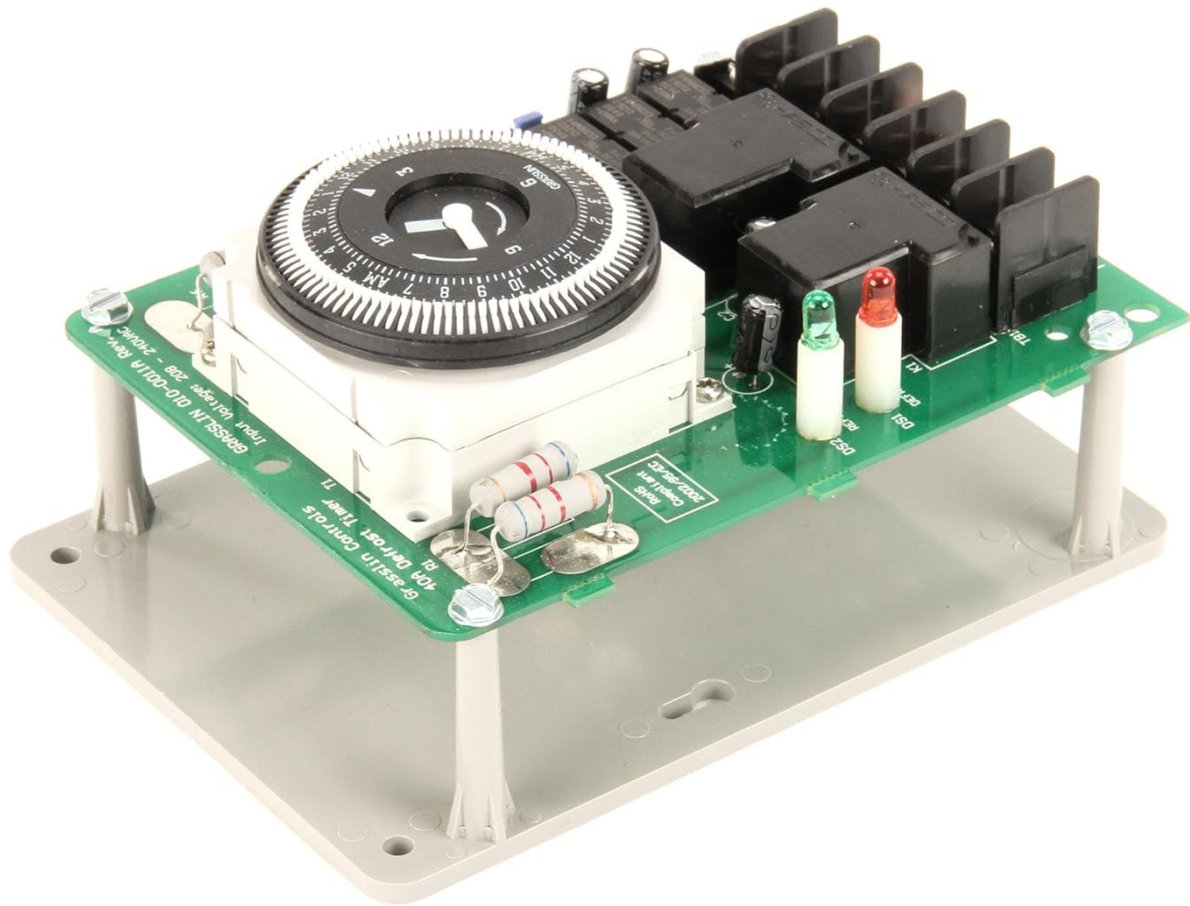


Figure 2.2: Side view of the timer unit, illustrating the various electrical components such as relays and capacitors mounted on the circuit board, along with some terminal connections.

3. SAFETY INFORMATION

- **Professional Installation:** Installation and servicing of this timer unit should only be performed by qualified and authorized personnel.
- **Electrical Hazard:** Ensure that the power supply to the refrigeration system is completely disconnected before attempting any installation, wiring, or maintenance procedures. Failure to do so can result in serious injury or death.
- **Component Compatibility:** Verify that this timer unit is compatible with your specific refrigeration system model before installation. Refer to your system's documentation.
- **Environmental Conditions:** Do not expose the timer unit to excessive moisture, extreme temperatures, or corrosive environments.

4. SETUP AND INSTALLATION

This section outlines the general steps for installing the timer unit. Specific wiring diagrams for your refrigeration system should be consulted.

1. **Power Disconnection:** Turn off and lock out the main power supply to the refrigeration unit. Confirm power is off using a voltage tester.
2. **Mounting:** Secure the timer unit's bracket to a stable surface within the refrigeration system's control panel using appropriate fasteners. Ensure the unit is mounted in an orientation that allows for easy access to the timer dial and wiring terminals.

3. Wiring Connections:

- Identify the appropriate wiring terminals on the timer unit and the corresponding wires from the refrigeration system.
- Connect the power input, load output, and any control wires as per the refrigeration system's wiring diagram. Ensure all connections are secure and properly insulated.
- Refer to the labels on the circuit board (e.g., F, 3, 1, 2, 4, N) for terminal identification.



Figure 4.1: View of the timer unit highlighting the electrical terminal blocks. This image shows the screw terminals where system wiring connects to the timer unit for power and load control, with labels like F, 3, 1, 2, 4, N visible.

4. **Initial Power-Up:** Once all connections are verified, restore power to the refrigeration system. Observe the timer unit for proper operation and any error indicators.

5. OPERATION

The Master-Bilt 19-00816 Timer Unit utilizes a mechanical dial for setting operational cycles, typically for defrost or other timed functions within a refrigeration system.

1. **Setting the Time of Day:** Rotate the outer dial of the timer until the current time aligns with the indicator arrow or mark on the timer's stationary housing.
2. **Setting ON/OFF Cycles:** The timer dial features small pins or segments around its circumference.
 - To set an "ON" period, push the corresponding pins/segments inwards.
 - To set an "OFF" period, leave the corresponding pins/segments outwards.
 - Each segment typically represents a specific time interval (e.g., 15 minutes). Consult the timer's markings for precise intervals.

3. **Manual Override (if applicable):** Some timers may include a manual override switch or lever. Refer to the timer unit itself for any such feature and its operation.

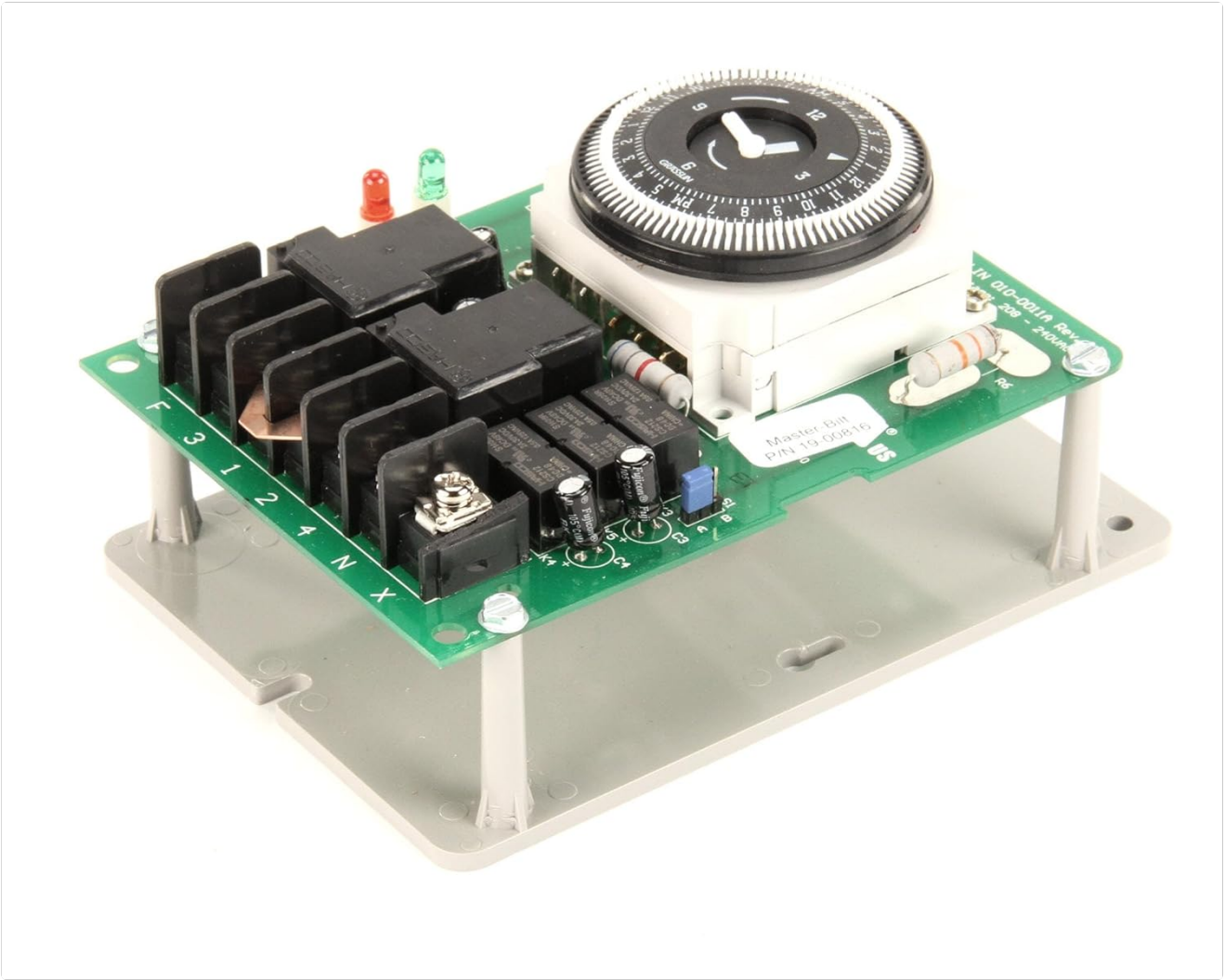


Figure 5.1: Detailed top-down view of the mechanical timer dial, showing the numbered segments and the central arrow indicator used for setting the time of day and programming ON/OFF cycles.

6. MAINTENANCE

Regular maintenance ensures the reliable operation of your timer unit.

- **Power Disconnection:** Always disconnect power before performing any maintenance.
- **Cleaning:** Periodically inspect the unit for dust, dirt, or debris accumulation. Clean the exterior with a soft, dry cloth. Do not use liquid cleaners directly on the unit.
- **Terminal Inspection:** Annually, or as part of routine system maintenance, inspect all electrical connections for tightness and signs of corrosion. Re-tighten as necessary.
- **Visual Inspection:** Check for any visible damage to the circuit board, relays, or wiring. Replace the unit if significant damage is observed.

7. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, contact a qualified technician.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Timer unit not operating (no movement, no output).	No power supply; incorrect wiring; faulty unit.	Verify power supply to the unit. Check all wiring connections against the system diagram. If power and wiring are correct, the unit may be faulty and require replacement.
Load (e.g., defrost heater) not turning ON/OFF as scheduled.	Incorrect timer settings; faulty relay; load issue.	Re-check the ON/OFF pin settings on the timer dial. Ensure the time of day is correctly set. Inspect the load (e.g., defrost heater) for functionality. A faulty internal relay may require unit replacement.
Timer dial not advancing.	No power to the timer motor; mechanical obstruction; faulty motor.	Verify continuous power supply to the timer unit. Check for any physical obstructions preventing dial movement. If power is present and no obstruction, the internal motor may be faulty, requiring unit replacement.

8. SPECIFICATIONS


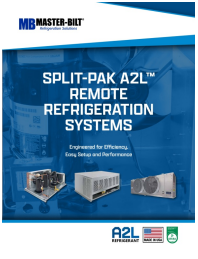


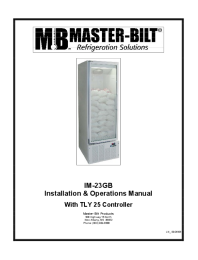

Model Number	MB19-00816
Brand	Master-Bilt
Product Dimensions	7"D x 9"W x 7"H (approximate, based on package dimensions and product description)
Item Weight	1.01 Pounds (0.46 kg)
Country of Origin	United States
UPC	046843109531, 220215087423

9. WARRANTY AND SUPPORT

Specific warranty information for the Master-Bilt 19-00816 Timer Unit on Bracket is not provided in the product details. Please refer to the original purchase documentation or contact Master-Bilt customer service for warranty details and technical support.

For further assistance, please visit the official Master-Bilt website or consult your authorized Master-Bilt dealer.

Related Documents - MB19-00816

	<p>Master-Bilt Refrigeration Products: Just The Facts - Product Guide</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>Master-Bilt Split-Pak A2L Remote Refrigeration Systems: Features, Specifications, and Model Guides</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>Master-Bilt Back Bar Refrigeration: Installation, Operation, and Maintenance Guide</p> <p>Comprehensive guide for installing, operating, and maintaining Master-Bilt Back Bar Refrigeration units (BB Series). Includes inspection, installation steps, operation details, maintenance procedures, troubleshooting tips, detailed specifications, and parts lists for both Glass Door and Solid Door models BB59, BB59G, BB69, BB69G, BB79, BB79G, BB95, BB95G.</p>
	<p>Master-Bilt COLDIN-3 Series Display Freezers: Installation and Operations Manual</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>Master-Bilt IM-23GB Ice Merchandiser: Installation and Operations Manual</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>
	<p>Master-Bilt BILT2SPEC™ Custom Walk-In Coolers & Freezers Specifications</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>