

# MODEL G8000 Series Mechanical Defrost Timer Installation Instructions

## **⚠ WARNING** *Risk of Electric Shock or Fire*

- Turn all power off before servicing this switch or the equipment it controls.
- Follow local electrical and safety codes, National Electric Code (NEC) and Occupational Safety and Health Act Codes (OSHA).
- Ground enclosure or bracket in accordance with National Electrical Code, Canadian Electrical Code, and local requirements.
- Make sure there is no wire insulation under the terminal plate on time switch connector. Firmly tighten terminal screws.
- Use 75 degree C minimum copper conductors only.
- Reinstall Safety Guard after wiring.

READ AND SAVE INSTALLATION INSTRUCTIONS

## Installation/Replacing Timer With G8000 Enclosure

1. Take one of these actions.

If you are...	Then...
Switching out the G8000 Defrost Timer in a different enclosure or bracket,	Perform the applicable G8000 changeout procedure: <ul style="list-style-type: none"> <li>• Replacing Existing Timer in Enclosure with G8000 mechanism</li> <li>• Replacing Existing Timer with G8000 on Bracket or Bracket inside Enclosure</li> </ul>
Mounting G8000 enclosure with the mechanism,	Follow steps 2 through 9.

2. Insert screwdriver into slot on G8000 Defrost Timer and remove mechanism from Intermatic enclosure. See Figure 1.

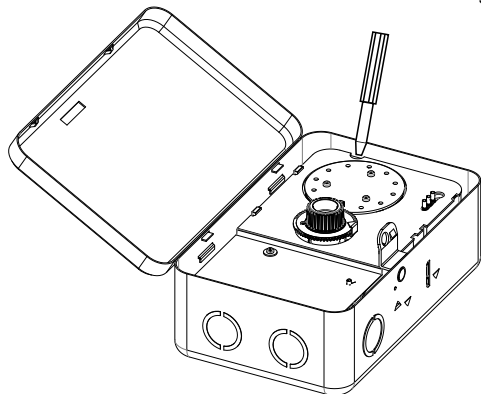


Figure 1. Removing G8000 Defrost Timer from Intermatic enclosure.

3. Install the enclosure in the desired location that provides adequate space for the enclosure door to swing open fully.
4. Drill the holes and then clean out each hole.
5. Use appropriate mounting hardware as needed.
6. Insert the screw into the top hole and tighten.
7. Hang the enclosure over the top screw.
8. Insert the other screws through the holes in the enclosure and into the remaining holes in the wall. Tighten the screws.
9. Install the timer in the enclosure. Connect wiring. See Connecting G8000 Wiring.

## Replacing Existing Timer in Enclosure with G8000 Mechanism

1. Disconnect power to the mechanism you want to replace.
2. Disconnect the wires from the old mechanism.
3. Remove the old mechanism from the enclosure.
4. Insert screwdriver into slot on G8000 Defrost Timer and remove it from Intermatic enclosure. See Figure 1.
5. If necessary, snap the tabs off the G8000 Defrost Timer with your fingers or pliers. See Figure 2.

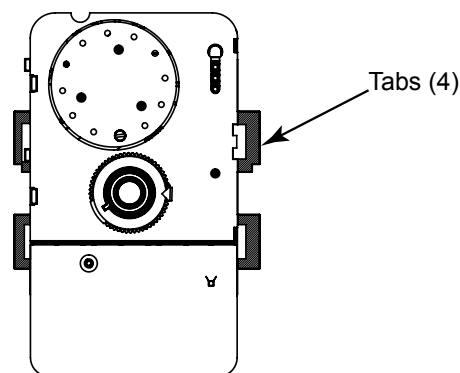


Figure 2. Snapping tabs off mechanism.

6. Tuck in the insulator tab on the timer and then snap the mechanism in the applicable enclosure. See Figure 3.

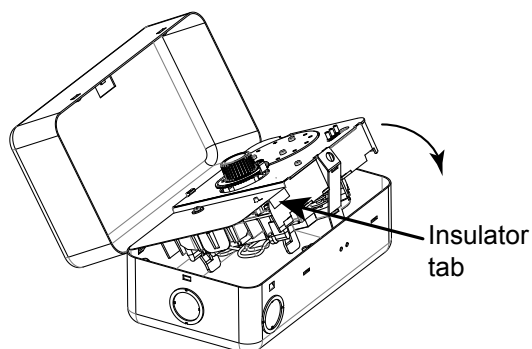


Figure 3. Installing the G8000 Defrost Timer.

## Replacing Existing Timer with G8000 On Bracket or Bracket Inside Enclosure

1. Disconnect power to old mechanism you want to replace.
2. Disconnect the wires from the old mechanism
3. Remove the old mechanism from the bracket or the bracket in the enclosure.
4. Insert screwdriver into slot on G8000 Defrost Timer and remove it from the Intermatic enclosure. See Figure 1.
5. If necessary, snap the tabs off the G8000 Defrost Timer with your fingers or pliers. See Figure 2.
6. Tuck in the insulator tab on the timer and then snap the timer on the bracket as shown in Figure 3, or if applicable, the snap timer on bracket in the enclosure as shown in Figures 4 and 5 on the back.
7. Make sure the mechanism is fastened securely on the bracket.

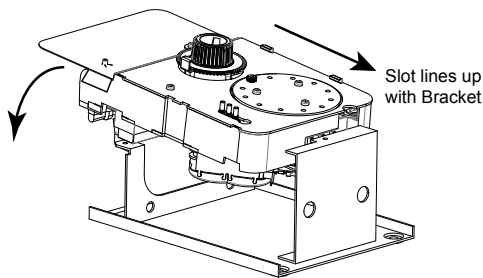


Figure 4. Snap Defrost Timer on bracket.

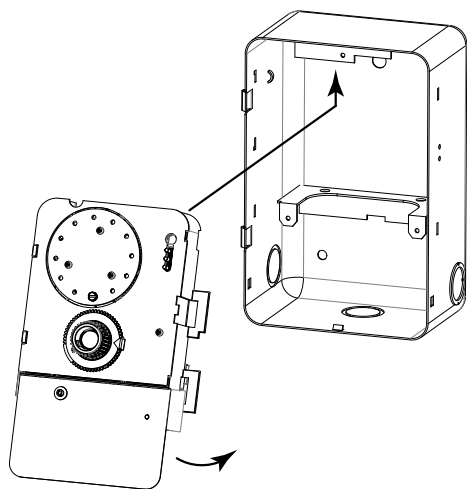


Figure 5. Installing G8000 in bracket in enclosure

## Connecting G8000 Wiring

1. Make sure power is disconnected to the G8000.
2. Remove the retaining screw that secures the plastic insulator. Set aside the screw for re-use.
3. Strip the wires 1/2 inch.
4. Connect the wires to the proper terminals on the time switch connector. Tighten screws firmly. See the supplied wire diagram.
5. Return the plastic insulator to its original position.
6. Reinstall the retaining screw that was previously removed.

FOR UNITS WITH SOLENOIDS (G8145-00 and G8145-20)

### **WARNING** Risk of Electric Shock or Fire

The defrost terminating solenoid on this defrost control is not intended for continuous duty operation.

After you complete the G8000 wiring, be sure to perform the Checking Voltage Solenoid Terminals procedure below.

1. Rotate the timer knob counter-clockwise until the tripper screw is in-line with the time of day pointer.

### **NOTICE** Risk of Damage to Timer

- Do NOT rotate the timer knob clockwise.
- Turning the knob clockwise can damage the gears in the timer.

2. Connect a voltmeter across solenoid terminals X and 3.
3. Activate power to the timer.
4. Take one of these actions.

If...	Then...
Voltage is present at the solenoid terminals,	Turn off power and check wiring and other system components for feedback voltages.
There is no voltage present at the solenoid terminals	Proceed to step 5.

5. Rotate timer knob until timer transfers power into Defrost Mode.
6. Determine if voltage is present at solenoid terminals X and 3.
7. Take one of these actions.

If...	Then...
Voltage is present at the solenoid terminals,	Turn off power and check wiring and other system components for feedback voltages.
There is no voltage present at the solenoid terminals	Turn off power to the defrost timer and disconnect the volt meter from the solenoid terminals.

NOTE: After you have verified that there is no feedback voltage, the procedure is complete.

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