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# Instructions

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## for the installation of the KPC-MDT portion control kit

The kit can be used on either the MDT6N90, the MDT5N25, the MDT5N40, the MDT4F12 or the MDT3F12 ice maker dispensers.

### Kit Contents:

- Time delay relay with potentiometer
- Wire harness with resistor
- Extension wires
- Mounting screw



### Kit Concept:

Install a time delay relay in between the control board's switched dispense contact and the dispensing system loads.

### Pre-assembly

1. Connect the resistor wire harness to the time delay relay. The short wire goes to terminal 3.

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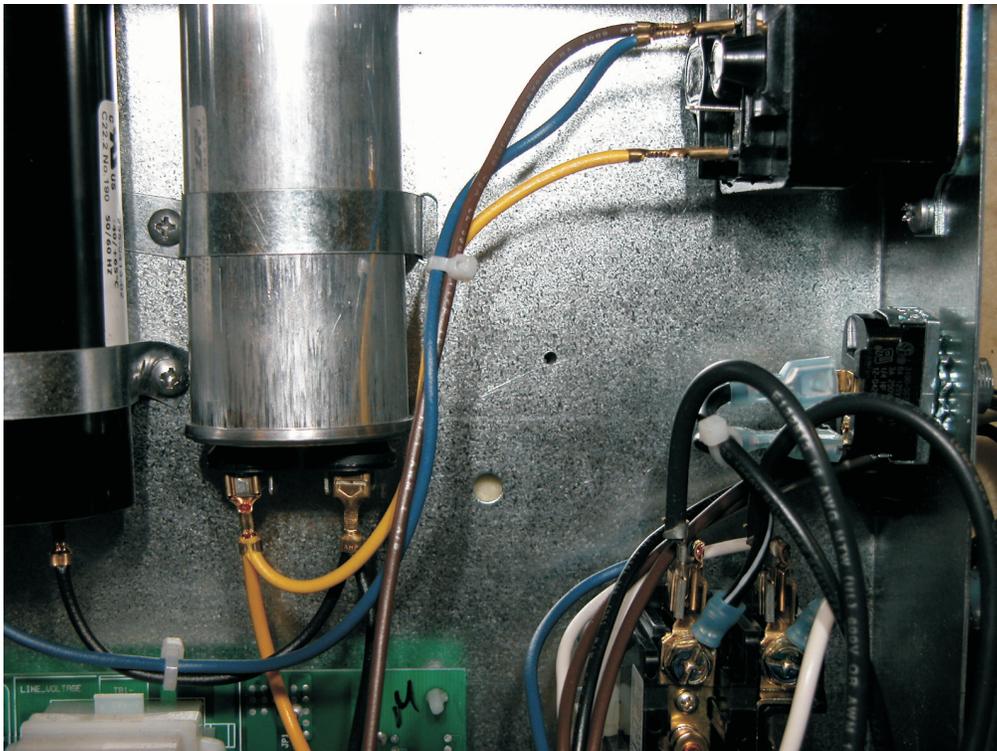
**MDT6N90 instructions:**

1. Disconnect electrical power.
2. Remove front panel.
3. Remove control box cover.

	<b>⚠WARNING</b>
	<b>Electrical Shock Hazard.</b> Disconnect electrical power to the ice maker before beginning.

4. Locate time delay relay mounting location. Later models have an existing mounting hole, earlier models require one to be drilled. In either case the location for the time delay relay is to the right of the compressor start capacitor. For those machines requiring a hole to be drilled:

- A. Hold the time delay relay from the kit in place and use it as a template to mark the hole location.
- B. Center punch the hole location.
- C. Drill a 1/8" diameter hole in the back of the control box. See photo below.



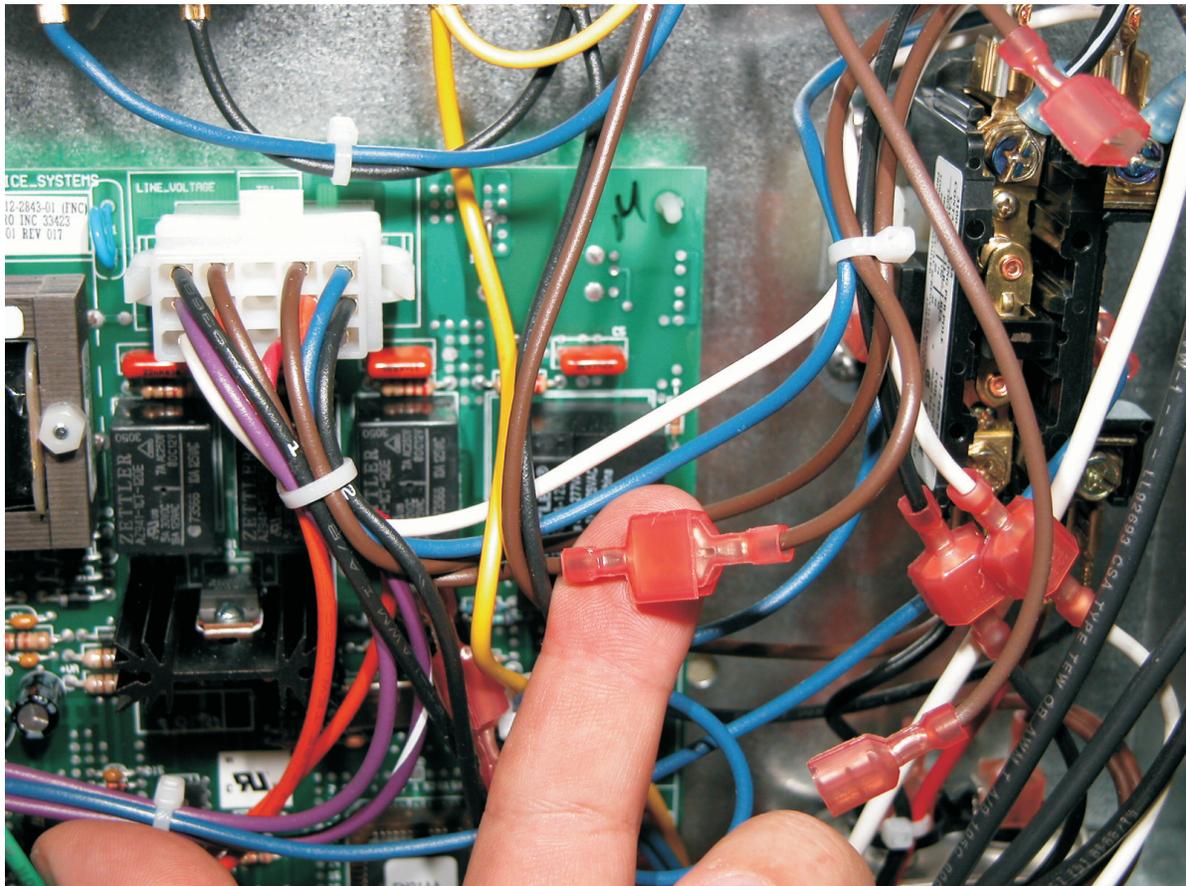
**Suggested Hole Location**



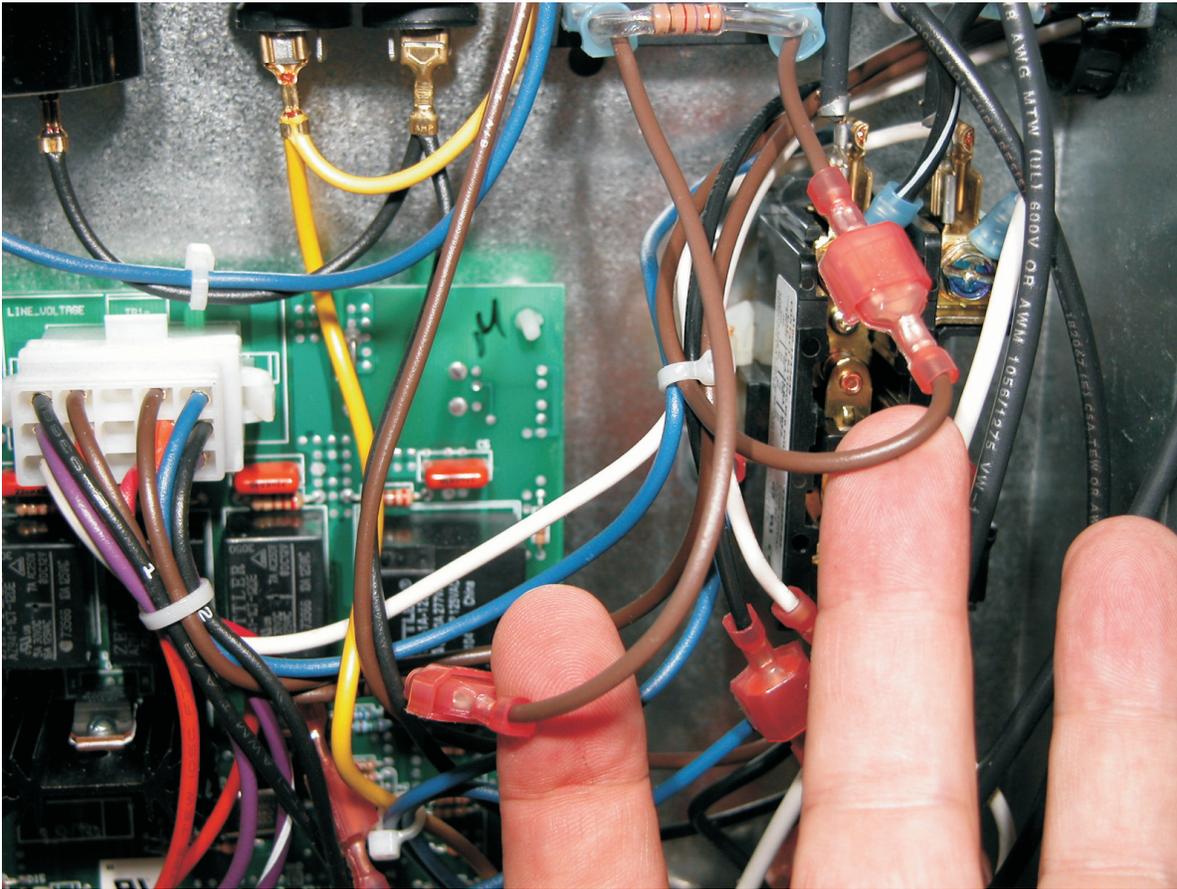
**Mounted Time Delay Relay**

5. Mount time delay relay to the control box, secure it with the provided sheet metal screw.

6. Unplug the brown wire connections as shown in the photo below. Note: brown wire leads to door solenoid.



7. Connect one wire from time delay relay to one unplugged brown wire and connect the other wire from the time delay relay to the other unplugged brown wire.



8. Set dial on time delay relay to between .1 and 2.

9. Replace factory wiring diagram on the inside of the control box cover with one from the kit.

10. Return control box cover to its normal position and secure with the original screws. Test unit.

11. Reconnect power. Reset dial as needed. Higher numbers equal more ice.

12. Return front panel to its original position and secure with the original screws.

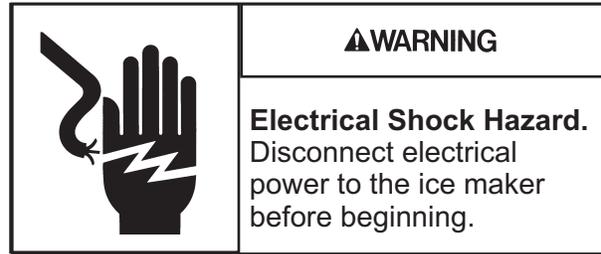
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**Note: The portion control operates the door solenoid and dispense drive motor. When a user places a container in front of the Touch Free sensor, the door solenoid opens and the dispense drive motor starts. When the time delay relay times out, the door solenoid will close and the dispense drive motor will stop, even if the user's container is still in front of the sensor.**

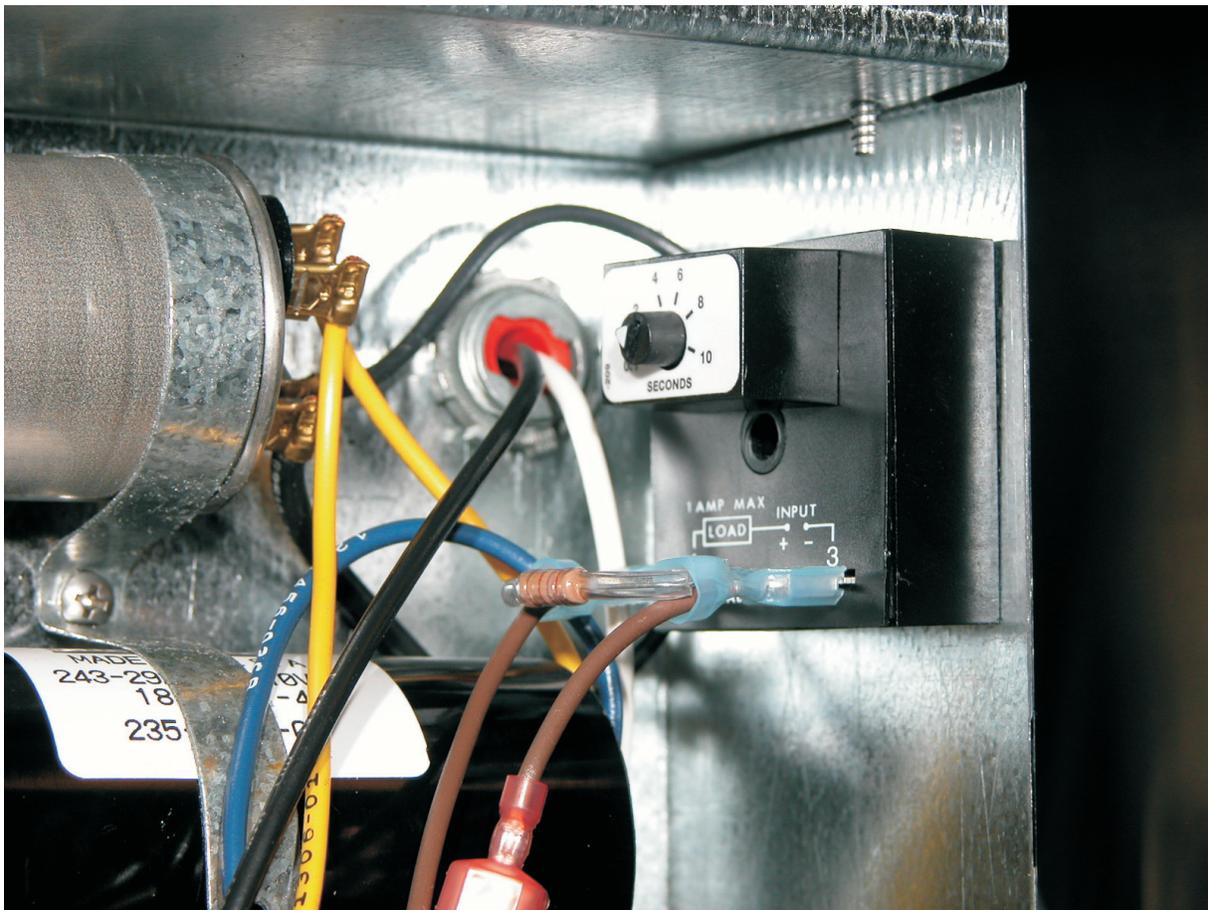
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## MDT5N25 and MDT5N40 Instructions

1. Disconnect electrical power.
2. Remove front panel and splash panel.
3. Remove control box cover.



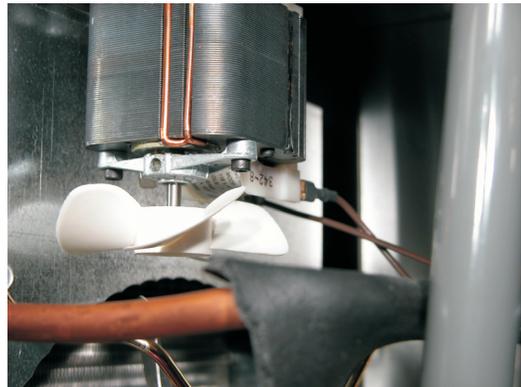
4. Locate time delay relay mounting location. Later models have an existing mounting hole, earlier models require one to be drilled. The suggested location is on the right side of the control box next to the run capacitor. See photo. For those machines requiring a hole to be drilled:



### Suggested Location for Time Delay Relay

- A. Hold the time delay relay from the kit in place and use it as a template to mark the hole location.
- B. Center punch the hole location.
- C. Drill a 1/8" diameter hole in the side of the control box.

5. Mount time delay relay in control box. Secure with the screw from the kit.
6. Connect both long wire leads from the kit to the wires on the time delay relay.
7. Route both wires through the bottom of the control box and into the condensing unit compartment.
8. Disconnect wires from dispense drive motor.
9. Unplug high voltage wire harness from the top end of the control board. Use an ohmmeter to identify which motor wire is connected to terminal 6 (test from terminal 6 to each motor wire end). Mark that wire.
10. Connect the wire identified in step 9 to one of the wires from the time delay relay.
11. Connect the other wire from the time delay relay to the dispense drive motor.
12. Re-connect the left-over wire from step 8 to the dispense drive motor.
13. Re-connect the wire harness to the control board.
14. Set dial on time delay relay to between .1 and 2.
15. Replace factory wiring diagram on the inside of the control box cover with one from the kit.
16. Return control box cover to its normal position and secure with the original screws. Test unit.
17. Reconnect power. Reset dial as needed. Higher numbers equal more ice.
18. Return all panels to their original positions and secure with the original screws.



**Dispense Drive Motor**

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**Note: The portion control operates the dispense drive motor. When a user places a container in front of the Touch Free sensor, the dispense drive motor starts. When the time delay relay times out, the dispense drive motor will stop, even if the user's container is still in front of the sensor.**

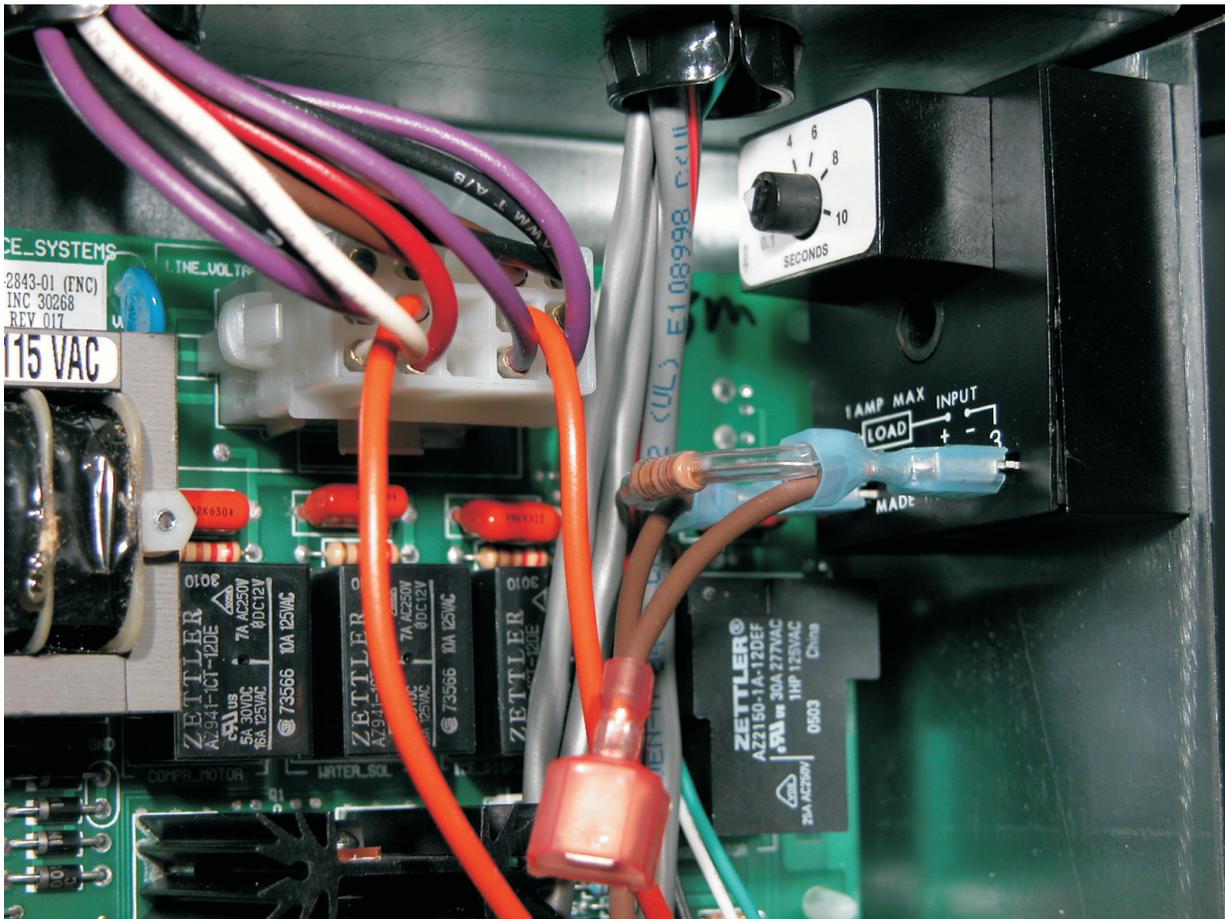
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### MDT3F12 and MDT4F12 instructions:

1. Disconnect electrical power.
2. Remove top, front and left side panels.
3. Remove control box cover.

	<b>⚠ WARNING</b>
	<b>Electrical Shock Hazard.</b> Disconnect electrical power to the ice maker before beginning.

4. Locate time delay relay mounting location. Later models have an existing mounting hole, earlier models require one to be drilled. The suggested location is on the right side of the control box. See photo. For those machines requiring a hole to be drilled:



**Suggested Location for Time Delay Relay**

- A. Hold the time delay relay from the kit in place and use it as a template to mark the hole location.
- B. Center punch the hole location.
- C. Drill a 1/8" diameter hole in the side of the control box.

5. Mount time delay relay in control box. Secure with the screw from the kit.
6. Connect both long wire leads from the kit to the wires on the time delay relay.
7. Route both wires through the top of the control box and into the condensing unit compartment.
8. Disconnect wires from dispense drive motor.
9. Unplug high voltage wire harness from the top end of the control board. Use an ohmmeter to identify which motor wire is connected to terminal 6 (test from terminal 6 to each motor wire end). Mark that wire.
10. Connect the wire identified in step 9 to one of the wires from the time delay relay.
11. Connect the other wire from the time delay relay to the dispense drive motor.
12. Re-connect the left-over wire from step 8 to the dispense drive motor.
13. Re-connect the wire harness to the control board.
14. Set dial on time delay relay to between .1 and 2.
15. Replace factory wiring diagram on the inside of the control box cover with one from the kit.
16. Return control box cover to its normal position and secure with the original screws. Test unit.
17. Reconnect power. Reset dial as needed. Higher numbers equal more ice.
18. Return all panels to their original positions and secure with the original screws.

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**Note: The portion control operates the dispense drive motor. When a user places a container in front of the Touch Free sensor, the dispense drive motor starts. When the time delay relay times out, the dispense drive motor will stop, even if the user's container is still in front of the sensor.**

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