

INSTALLATION INSTRUCTIONS

WCC2001QT-R

Auger Time Delay Installation

This time delay is designed to allow the gear motors to run after the compressor shuts down until the suction line temperature drops to 40°F (About 2 minutes). This allows the gear motors to clear ice out of the evaporators after shut down to avoid freeze up.

NOTE: The main contactor locations are labeled on the face of the contactor.

1. Disconnect all power to the unit.
2. Remove the screws for the current anti-freeze relay and move it aside. Drill two new holes for the new anti-freeze relay $\frac{3}{4}$ " closer to the side of the box that the toggle switch is closest to. This is to provide clearance for the new bin stat and contactor. Mount the anti-freeze relay in the new holes using the old screws.
3. Drill holes for and install the new contactor in the corner of the box, as shown in . View of New Location for Contactor. Make sure there is sufficient clearance for wiring to the sides and ends.
4. Drill Holes for and mount the new bin stat in line with the toggle switch as shown. Make sure there is sufficient clearance between the new bin stat and the anti-freeze relay.
5. Run the sensing tube through the existing rubber grommet and over to the suction line. Carefully peel back the insulation and clamp the sensing bulb to the suction line with the provided clamp. Re-insulate the suction line.
6. Install the updated 620410547 wiring diagram in the unit.

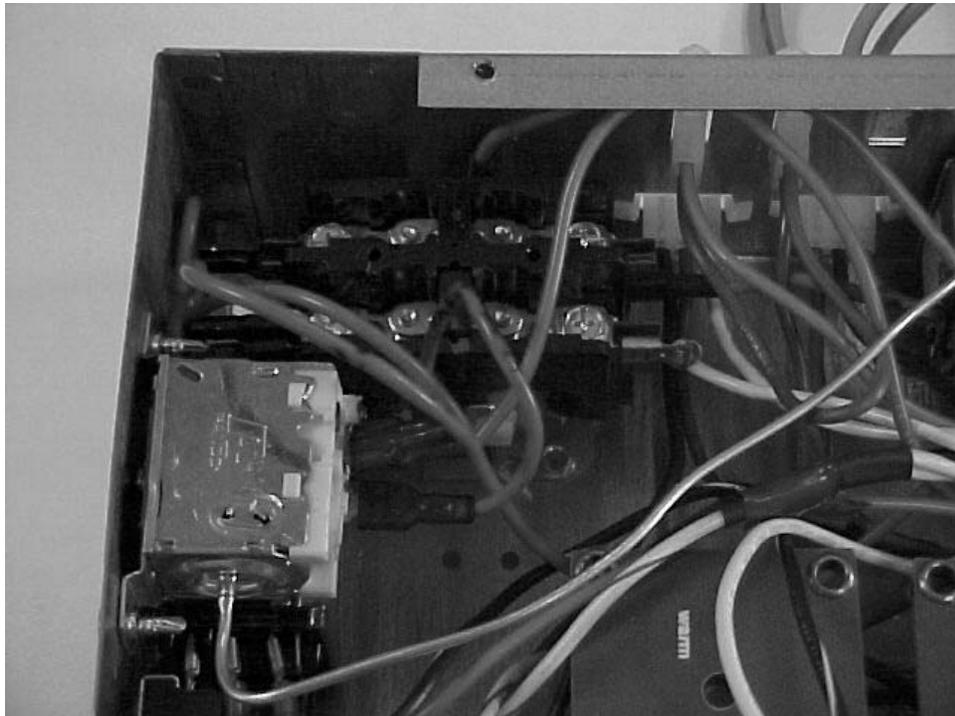


Figure 1. View of New Location for Contactor

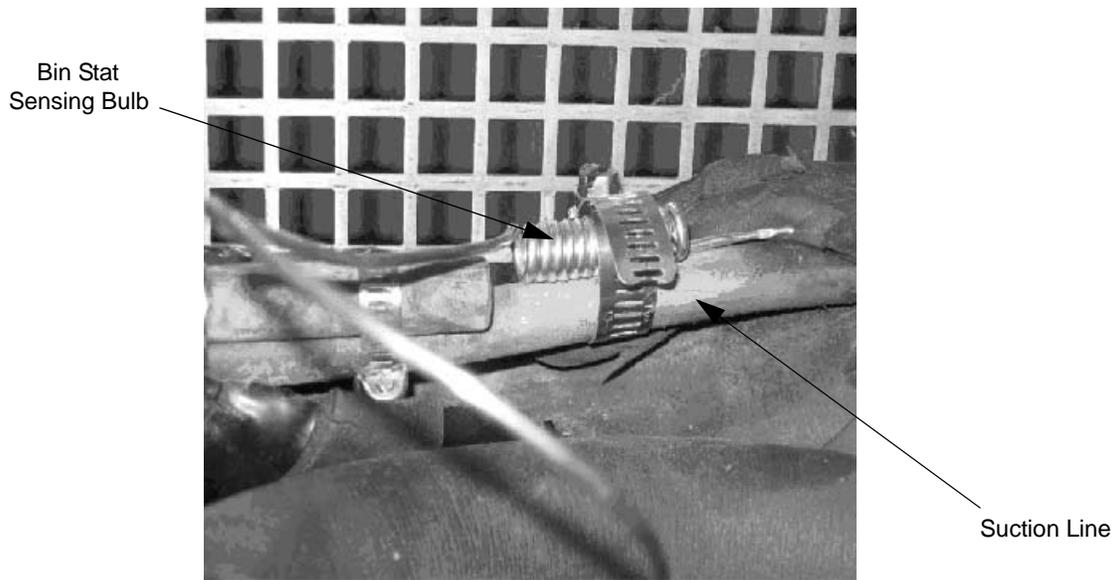


Figure 2. View of New Mounting Location for Bin Stat Sensing Bulb

Wiring Installation

Reconnect Existing Wiring

1. **Material Required:** 16 Ga. Butt Splice
Remove black wire on terminal #7 of the Anti-Freeze Relay
2. Cut off the 3/16" spade terminal.
3. Remove the black w/white stripe wire from terminal #4 on the Anti-Freeze Relay.
4. Cut off the 3/16" spade terminal.
5. Strip both wires and use a 16 Ga. butt splice to connect black and black w/white stripe wires together.

Add Spade Lug

1. **Material Required:** 3/16" Spade Lug
2. Remove the white w/red stripe wire from the main contactor coil terminal "B"
3. Cut off the fork terminal on the wire.
4. Strip the end of the wire and crimp a 3/16" spade terminal on the end of the white w/red stripe wire
5. Connect the white w/red stripe wire to terminal #7 of the Anti-Freeze Relay.

Connect New Wire

1. **Material Required:** 18" Red Lead with 1/4" spade and 3/16" spade on ends
2. Connect a 1/4" spade lug to main contactor terminal "B" and a 3/16" spade lug to Anti-Freeze Relay terminal #4

Remove Wire

1. Remove white wire from main contactor "T2". Connect white wire to new contactor load side pole #1

Connect New Contactor

1. **Material Required:** 1/4" Spade Lug
2. On right gear motor plug, cut the red wire about 4" from the plug
3. Strip the wire and crimp on a 1/4" spade lug.
4. Connect the wire to the new contactor load side pole #2

Remove, Re-connect and add Wire

1. **Material Required:** 10" Red Lead with 1/4" spade lugs
2. Remove the opposite end of the remaining red motor wire from the run capacitor and main contactor "L1"
3. Connect a 10" lead to main contactor terminal "L1" and back to the run capacitor terminal (**Note:** if compressor delay kit has been previously installed, this step may not be necessary)

Connect New Wire

1. **Material Required:** 24" Red Lead with 1/4" flag and 1/4" Piggy Back Terminal
2. Connect a 1/4" spade to the new contactor on the line side, pole #1. (Note: Pole #1 is the opposite side of white wire on new contactor.)
3. Connect the other end of the lead to the main contactor "T1". (Note: Red wire from switch currently on "T1" should be placed on alternate lug of piggy back terminal.)

Connect New Wires

1. **Material Required:** 6" Red Lead with 1/4" flag terminals; 2- 4" Red Leads with 1/4" flag terminals; 16" Red Lead with 1/4" spade Terminals; 16" Black lead with 1/4" spade and 1/4" flag terminal
2. Connect one end of the 6" lead to the new contactor, on the line side, pole #1 and the other end to the new thermostat terminal #1
3. Connect one end of the 4" lead to the new contactor on the line side, pole #1 and the other side to new contactor line side pole #2
4. Connect one end of the second 4" lead to the new contactor coil lug and the other end to the thermostat, terminal #2
5. Connect one end of the 16" wire to new thermostat terminal #3 and the other end to the main contactor coil terminal "B"
6. Connect the 1/4" flag terminal end of the 16" black lead to the new contactor coil opposite the red wire and the 1/4" spade lug to the main contactor coil terminal "A"
7. Verify all electrical connections versus the updated 620410547 electrical diagram
8. Reconnect power to the unit, start the unit and verify proper operation