

***COLD WEATHER
START KIT***
Ceiling Mount 8000

Cold Weather Start Kit:
To be used in conjunction with
**Ceiling Mount 8000 (Manufactured
After 01/07/15)** cooling system.

***Whisper*KOOL™**
The Coolest Thing In Wine Storage

CWSK.CM8000 051515

Conforms to ANSI/UL Std 427

Certified to CAN/CSA Std C22.2 No. 120

We manufacture, test and certify 100% of our wine cooling units in the USA. By sourcing the best components and closely controlling our manufacturing processes, we can assure the highest-quality, lowest defect manufacturing rates in the industry.

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CWSK.CM8000 051515

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INTRODUCTION

Customer Service

Thank you for purchasing a WhisperKOOL Cold Weather Start Kit. We strive to provide the highest quality products and the best possible customer service. If you have any questions about your system, please call us at 1-800-343-9463 or visit WhisperKOOL.com.

Using the Manual

This Owner's Manual is intended to provide detailed instructions for the installation of the Cold Weather Start Kit to the Platinum Split 4000 cooling system. In order to ensure the proper longevity of your cooling unit, the equipment should be installed as outlined in this Owner's Manual. It is also vital to establish a proper care and maintenance schedule. Please read and review this Owner's Manual carefully and keep it for future reference.

What is a Cold Weather Start Kit?

The Cold Weather Start Kit is designed to insure the start of your cooling system despite frigid ambient temperature that may result in failure of unit operation. The Cold Weather Start Kit will provide heat to the condensing unit when ambient temperature is too low.

How Does the Cold Weather Start Kit Work?

The Cold Weather Start Kit provides heat to specific components in the condensing unit for proper operation when the cooling system is in a below freezing setting. The Cold Weather Start Kit comes equipped with sensors to enable an ideal temperature boost every time.

WARRANTY REGISTRATION

In order to activate the warranty of your system, the Verification and Operational Documentation must be completed by the certified refrigeration technician installing your system and submitted via mail, fax or e-mail.

Mail to:

WhisperKOOL

ATTN: Warranty Registration

1738 E. Alpine Avenue

Stockton, CA 95205-2505

USA

OR

Fax to:

209-466-4606

OR

Scan and e-mail to:

warranty@whisperkool.com

For the equipment warranty to be valid, WhisperKOOL requires that the installation is performed by a certified HVAC-R technician (NATE certified technician is recommended) per the specifications outlined in this Technician's Manual. The technician shall be required to be equipped with the proper tools of the trade including: R-134a, brazing equipment, dry nitrogen, an accurate manifold gauge set (digital preferred), plus a 4 valve manifold set for evacuation, digital micron gauge, digital scale, deep vacuum pump and accurate digital thermometers. Without the proper equipment, a professional job cannot be accomplished. Evidence of the certified tech's NATE# or other certification is required.

RECEIVING & INSPECTING THE SYSTEM

Receiving and Inspecting the System

- Inspect the packaging for any obvious signs of damage or mishandling before opening the container.
- Note any discrepancies or visual damage on the Bill of Lading before signing.

Review the Packing Slip to Verify Contents

- Check the model number to ensure it is correct.
- Check that all factory options ordered are listed.

If any items listed on the packing slip do not match your order information, contact WhisperKOOL Customer Service immediately.

Before You Start

1. **Inspect the Kit before installation.** If damage is found, please contact your distributor or WhisperKOOL Customer Service at 1-800-343-9463.
2. Verify that you have received all of the items on the “Components Provided” list below and that the Kit corresponds to your specific WhisperKOOL cooling system.
3. The system is intended **for use in properly designed and constructed wine cellars.** Hire a professional wine storage consultant with a valid contractor’s license to build your wine cellar.
4. WhisperKOOL requires that all Systems and Cold Weather Start Kits be installed by a certified HVAC-R technician only.
5. The system is intended **for use in properly designed and constructed wine cellars.** Hire a professional wine storage consultant with a valid contractor’s license to build your wine cellar.
6. Warranty is not active until a Warranty Checklist has been received, reviewed, and approved.

Condensing Unit Components Provided:

- (1) Omron relay Assembly
- (1) Bypass timer
- (1) Thermal Switch Assembly
- (1) Blue disconnect labeled 3
- (20) small white zip ties
- (1) zip lock bag containing thermal paste
- (2) 40 watt 120v silicone heaters
- (2) hose clamps
- (1) Magnacraft Relay Assembly
- (1) #13 Wire
- (1) closed end terminal
- (1) Set of AKA4460 Cold Weather Start Kit Field Installation Instructions
- (1) Schematic Sticker
- (2) Silicone Heaters

Components Needed (Not provided):

- 2 wire t-stat wire for routing from the evaporator unit (Air Handler) to the condensing unit.
 - Use 18-20 wire stranded or solid

Tools Needed:

- #1 Philips Head Screw Driver
- #2 Philips Head Screw Driver
- 5/16” Nut Driver
- 1/4” Nut Driver
- Drill
- Wire Cutters
- Wire Strippers
- Crimpers
- Needle Nose Pliers
- Utility Knife

Evaporator Unit Components Provided:

- (4) Lever Connectors
- (1) 120v/24v Transformers (with double sided tape on bottom edge for mounting)
- (5) Zip Ties (3 for install and 2 additional)
- Platinum Split/WM & FD Evaporator Unit Cold Weather Start Kit Field Installation Instructions

After verifying that you have received all of the correct components for your specific system, please keep the Cold Weather Start Kit in its original box until you are ready for installation. This will allow you to move the product safely without damaging it. When you are ready to remove the product from the box, refer to the installation instructions.

TIP: Save your box and all packaging materials. They provide the only safe means of transporting/shipping the unit.

BEFORE YOU START



Shut Off Power going to the Evaporator and Condensing Unit.



Disconnect both the evaporator unit (Air Handler) and the Condensing Unit from each power source.



WARNING: Failure to do so may cause electrical shock which can result in injury or death.



A 2 wire 18-20 awg thermostat wire will need to be ran from the evaporator unit to the condensing unit prior to installing the Cold Weather Start Kit.

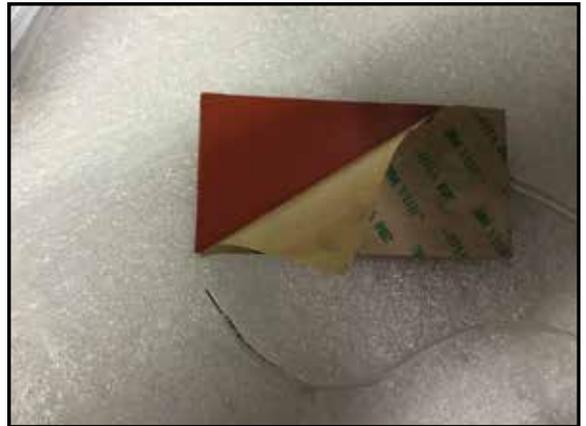
Review the Tools Needed and Components Provided document prior to starting.

CONDENSING UNIT COLD WEATHER START KIT INSTALLATION INSTRUCTIONS

- 1** Peel the label off of the receiver.

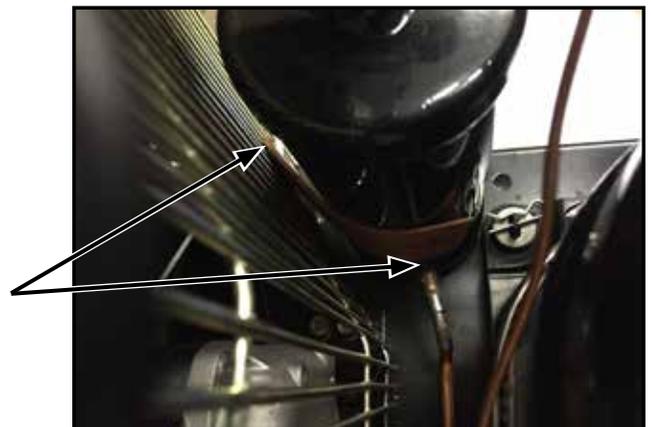


- 2** Peel the backing off one of the silicone heaters.

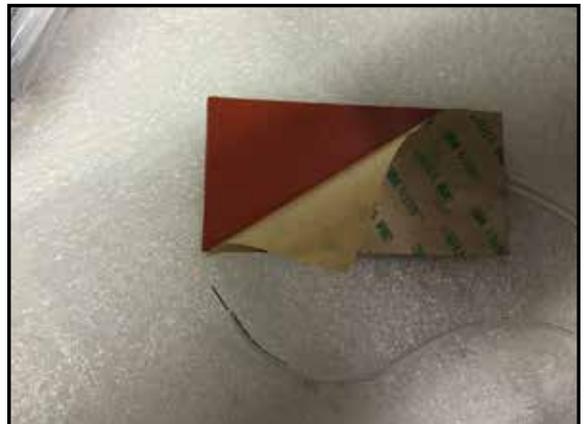


- 3** Place one of the silicone heaters on the receiver in the location shown. The heater will not adhere completely, there are hose clamps installed later in these instructions that will keep them firmly in place.

NOTE: Line up the heater so the wires are located at the fan shroud, and the bottom of the heater is touching the liquid line.

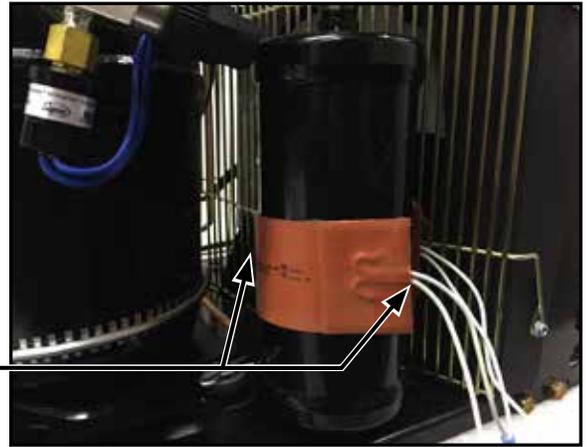


- 4** Peel the backing off the other silicone heater.



- 5** Place the other silicone heater on the receiver in the location shown. The heater will not adhere completely, there are hose clamps installed later in these instructions that will keep them firmly in place.

Note: Line up the heater so the wires are directed toward the fan shroud, and the back edge of the heater is touching the back edge of the other heater, as shown.



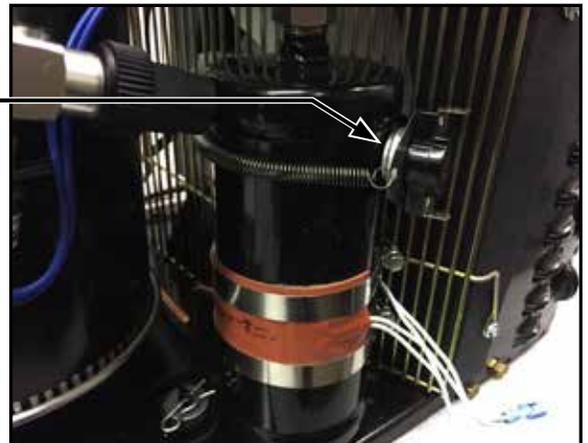
- 6** Slide the hose clamps on the receiver over the silicone heaters. One at the top of the heaters and one at the bottom. Secure in place as shown.



- 7** Wrap the spring from the Thermal Switch Assembly around the liquid line and secure the clasp of the spring to the thermal switch as shown.



- 8** Slide the thermal switch to the location shown



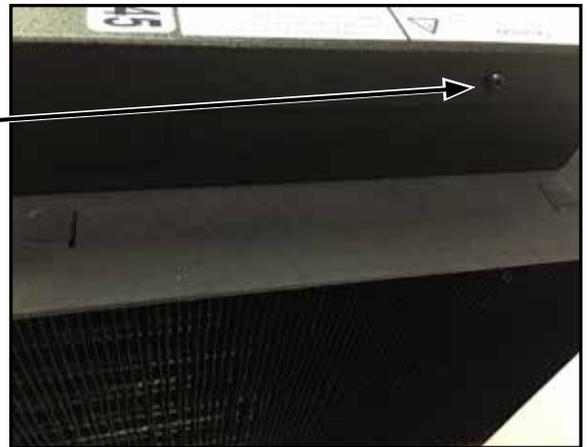
- 9** Connect the blue disconnect labeled T to the bottom terminal on the thermal switch.



- 10** Using a Phillips head screw driver remove the screw on the front edge of the electrical box.



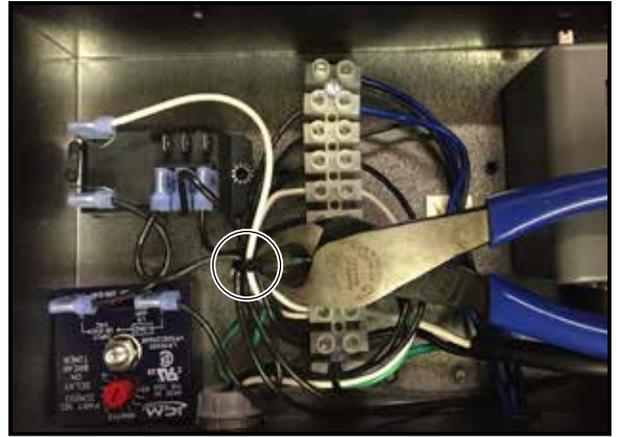
- 11** Using a Phillips head screw driver remove the screw on the back edge of the electrical box.



- 12** Lift the top and remove it from the electrical box.



- 13** Secure both wires into the H1 lever connector.



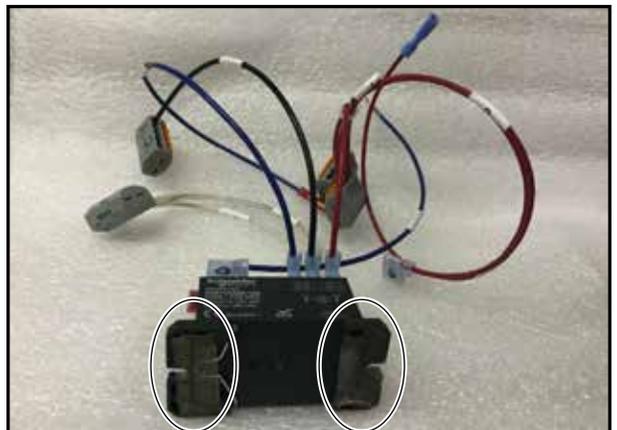
- 14** Using a flat head screw driver loosen the six terminal screws outlined in red, and remove the wires from the terminals.



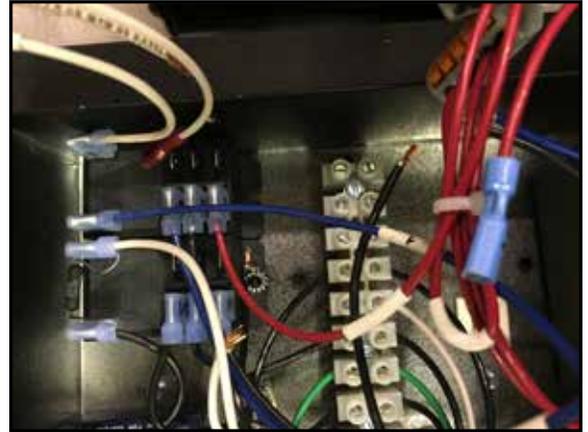
- 15** Cut the zip tie holding the high and low pressure wires.



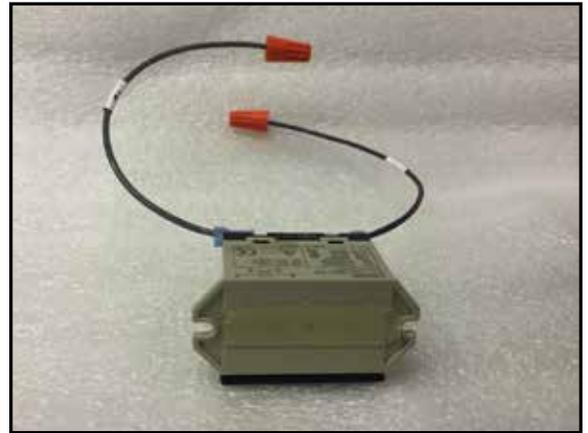
- 16** Remove the adhesive backing from the bottom of the Magnacraft Relay Assembly.



- 17** Place the Magnacraft Relay Assembly inside the electrical box in the orientation shown. Press the relay assembly firmly in place.



- 18** Remove the adhesive backing from the Omron Relay Assembly.



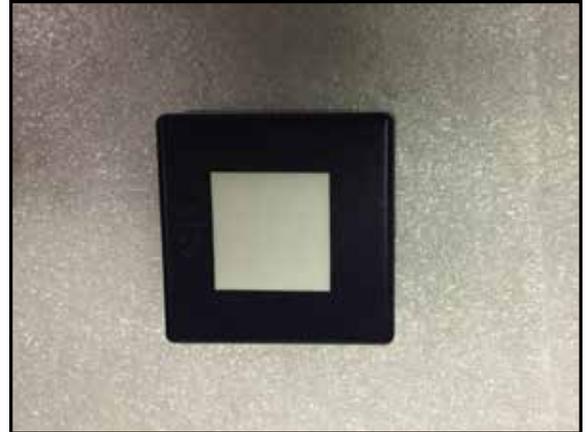
- 19** Place the Omron Relay Assembly in the electrical box in the orientation shown. Press the relay assembly firmly in place.



- 20** Using a flat head screw driver remove the cable tie holder.



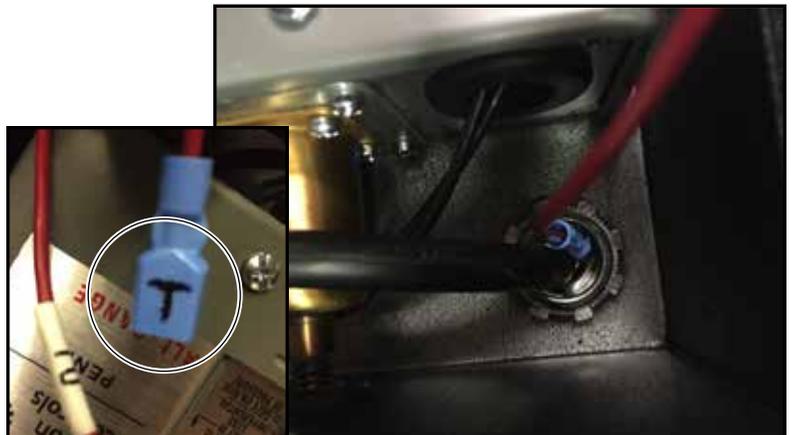
- 21** Remove the adhesive backing from the bypass timer.



- 22** Place the bypass timer inside the electrical box in the orientation shown. Press the relay assembly firmly in place.



- 23** Route the #10 wire with the blue disconnect labeled **T** down through the cord squeeze.



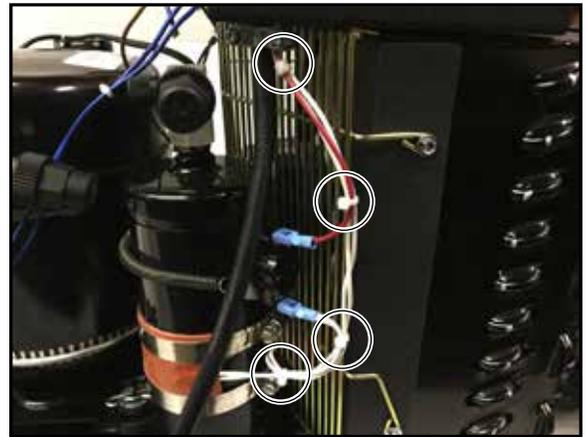
- 24** Connect the blue disconnect labeled **T** from the #10 wire to the top terminal on the thermal switch.



- 25** Route the white wires from the heaters up into the electrical box through the cord squeeze.



- 26** Pull the slack out of the wires and zip tie them in the locations shown.



- 27** Zip tie the wires to the fan shroud as shown.

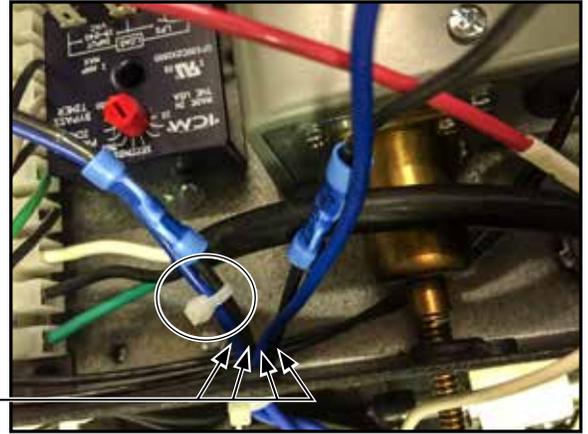


- 28** Connect the #9 wire with the blue disconnect labeled **6** to the #6 terminal on the Omron Relay.



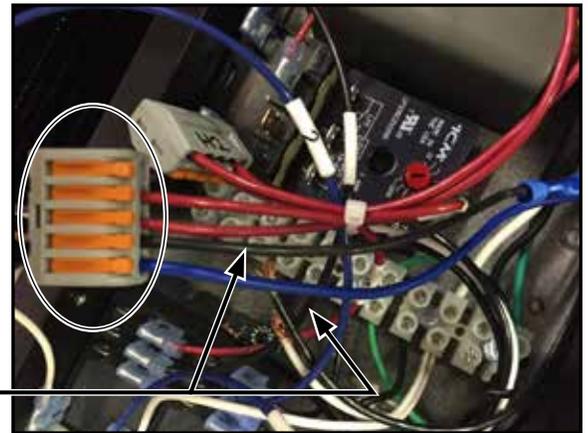
- 29** Zip tie one of the high pressure switch wires and low pressure switch wires together.

Blue Wires: low pressure switch.
Black Wires with butt splice: high pressure switch.

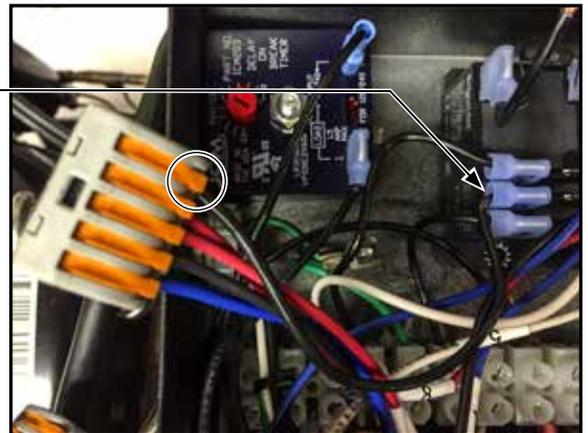


- 30** Secure one low pressure switch wire and one high pressure switch wire inside the H1 lever connector.

Blue Wires: low pressure switch.
Black Wires with butt splice: high pressure switch.



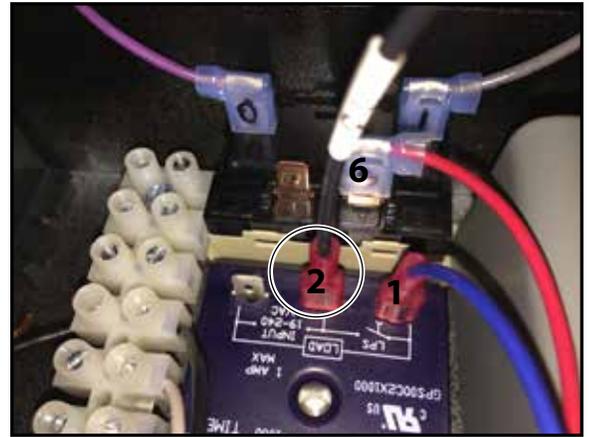
- 31** Zip tie the wires going into the N1 and H1 lever connectors as shown.



- 32** Connect the #2 wire with the red disconnect labeled 1 to the #1 terminal on the bypass timer.



- 33** Connect the #13 wire with the red disconnect labeled **2** to the #2 terminal on the bypass timer.



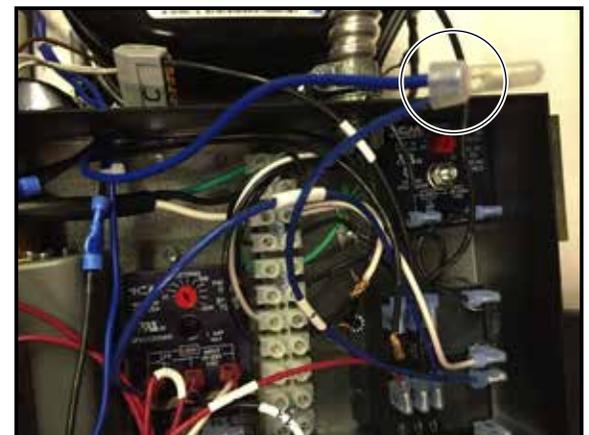
- 34** Connect the other end of the #13 wire with the blue disconnect labeled **4** to the #4 terminal on the Omron relay.



- 35** Connect the #5 wire with the red disconnect labeled **3** to the #3 terminal on the bypass timer.



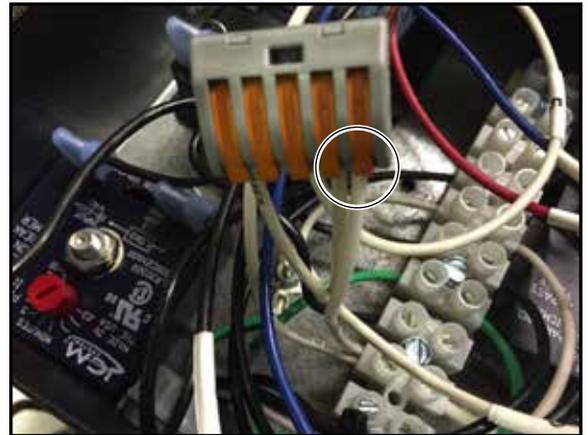
- 36** Using the closed end terminal crimp the #1 wire with the remaining low pressure switch wire.



- 37** Secure the #4 wire into the #7 terminal on the terminal block.



- 38** Secure the white wire from the #3 terminal on the terminal block inside of the N lever connector.



- 39** Remove the blue disconnect from the #3 terminal on the Delay on Break Timer.



- 40** Crimp the blue disconnect labeled 3 onto the loose wire coming from the Johnson control. (It was disconnected from the terminal block in step 16)



- 41** Connect the blue disconnect labeled 3 from the previous slide to the #3 terminal on the Delay on Break Timer.



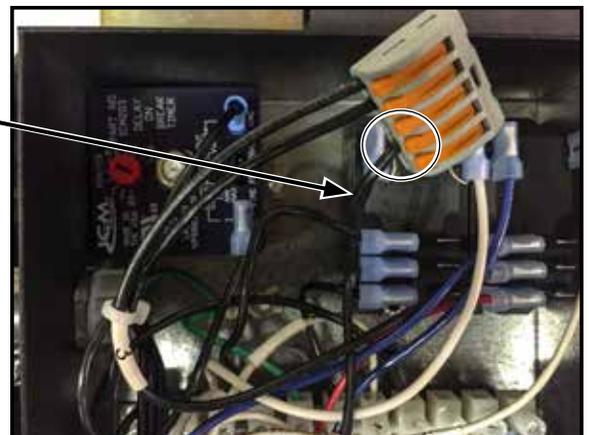
- 42** Cut the blue disconnect off the wire that was connected to the #3 terminal of the Delay on Break Timer. Strip the end of the wire to a length of 3/8".



- 43** Secure the bare end of the wire from the #1 terminal on the Delay on Break timer inside of the C lever connector.



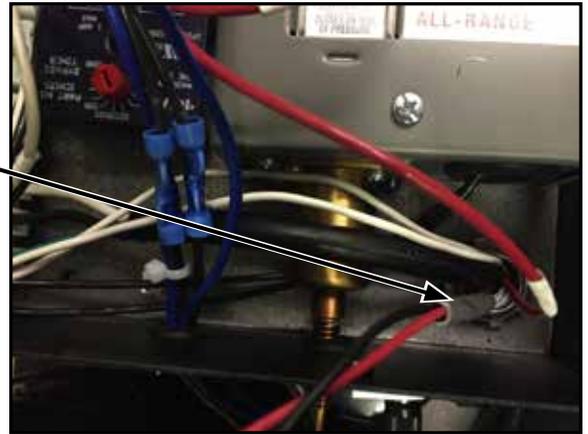
- 44** Secure the bare end of the wire coming from the #0 terminal on the compressor contactor relay inside of the C lever connector.



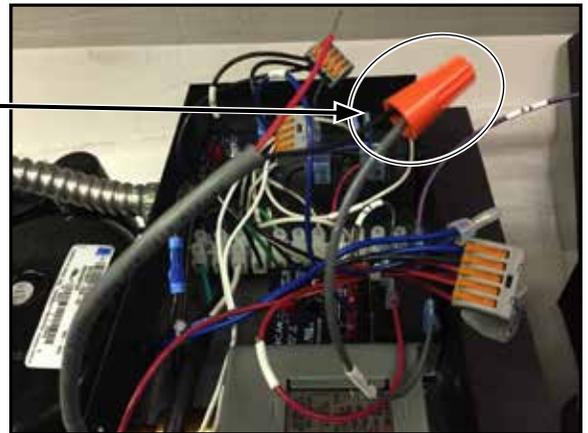
- 45** Secure the remaining high pressure switch wire into terminal #2 on the terminal block.



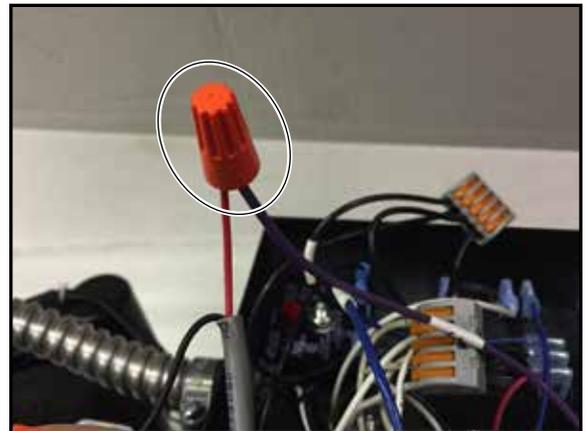
- 46** Route the 24v thermostat wires into the electrical box through the cord squeeze.



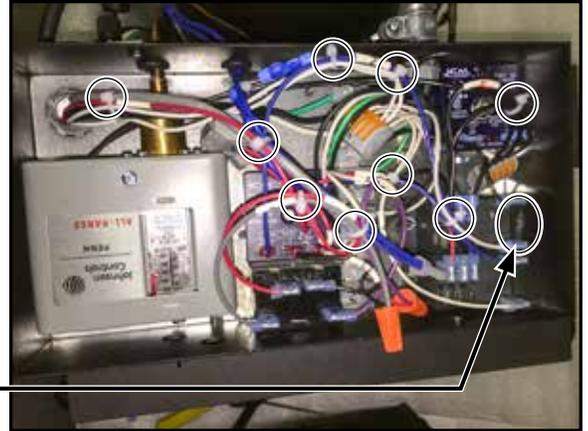
- 47** Connect one of the 24v thermostat wires to the grey #12 wire the using the wire nut provided.



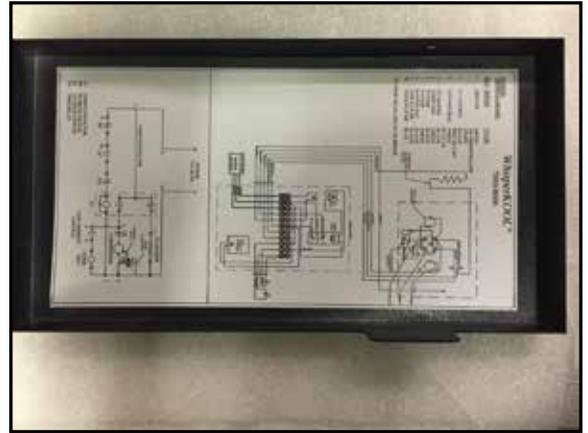
- 48** Connect the other 24v thermostat wire to the purple #11 wire the using the wire nut provided.



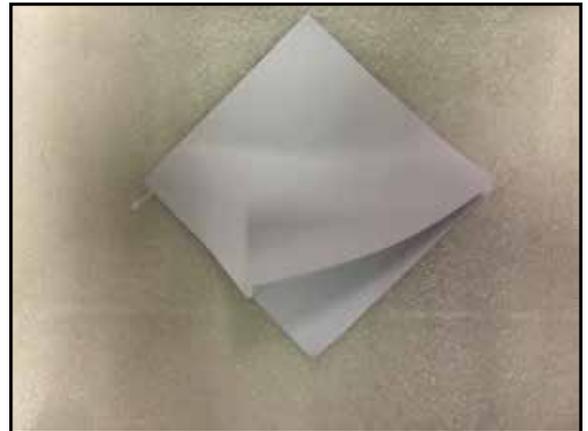
- 49** Tidy wires and zip tie in locations shown.
Make sure that no wires are touching the resistor when complete.



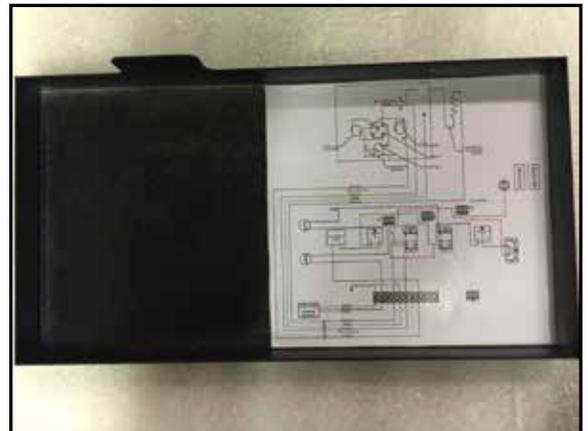
- 50** Remove the schematic sticker from the electrical box top.



- 51** Peel the adhesive backing off of the schematic sticker.



- 52** Apply the schematic sticker to the electrical box top as shown.



- 53** Place electrical box top back on the electrical box, and secure in place using the Phillips head screws removed.



- 54** Cut the corner of the zip lock bag containing the thermal paste.



- 55** Apply thermal paste to the surface of the thermal switch.



- 56** Set thermal switch in location shown, making sure the surface of the switch is making good contact with the receiver.



The Cold Weather Start Kit has been successfully installed on the condensing unit, next proceed to the evaporator unit instructions.

EVAPORATOR UNIT COLD WEATHER START KIT INSTALLATION INSTRUCTIONS

- 1** Before beginning the installation process, locate the Evaporator Unit Cold Weather Start Kit. All parts for the Evaporator Unit are located inside of this box.



- 2** Open box and remove the 24v transformer and the zip lock bag.



- 3** The kit will include five zip ties, four lever connectors, one 6/32 kee nut, and one 120v/24v step down transformer.



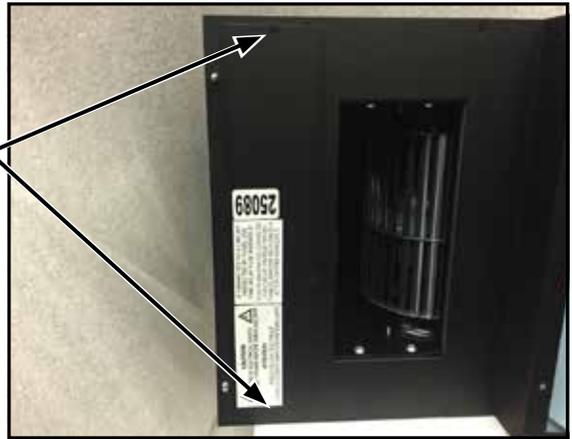
- 4** Using a Phillips head screw driver remove the 8 screws holding the grill in place. (Set screws aside for later use)



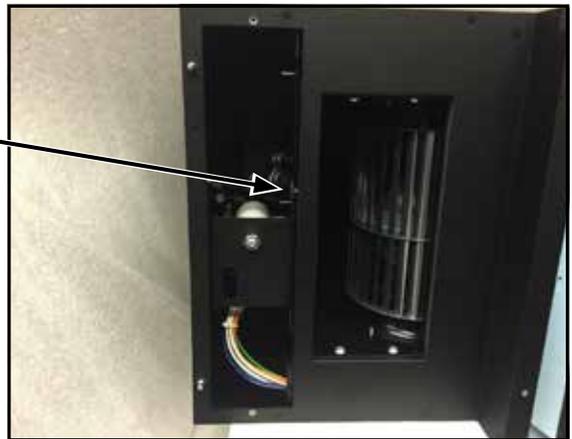
5 Remove the grill.



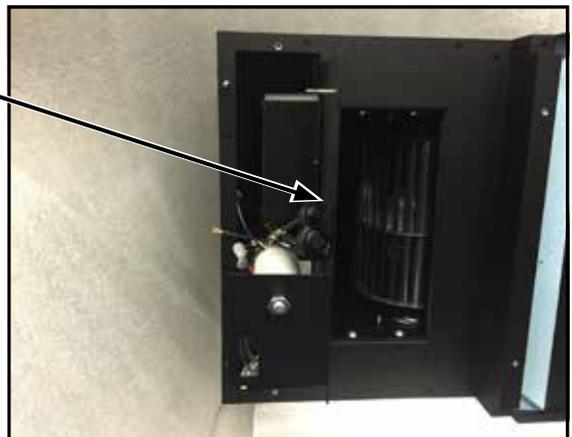
6 Locate the electrical panel access door, and remove the two Phillips head screws. (Set screws and panel aside for later use)



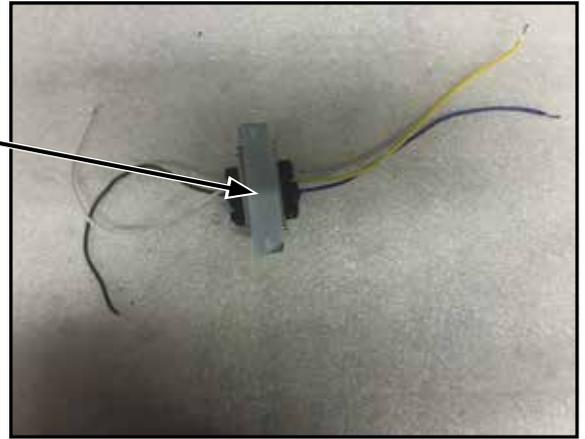
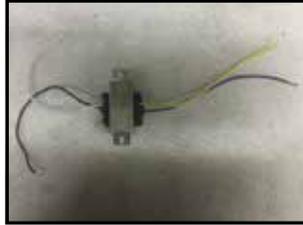
7 Remove the thumbscrew by rotating it counter clockwise. (Set thumbscrew aside for later use)



8 Pull electrical panel down as shown.

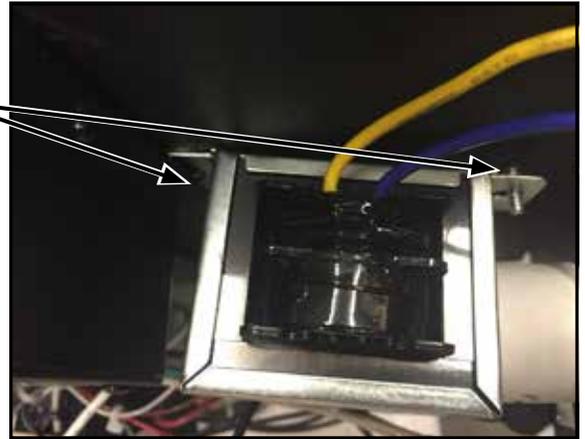


- 9** Remove the backing from the double sided tape on the transformer.



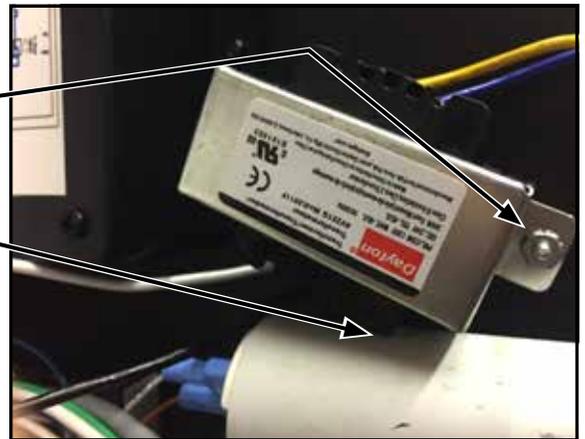
- 10** Place one edge of the transformer under the control box and the other edge over the 6/32 stud.

See next step for transformer orientation for units equipped with the humidity option.

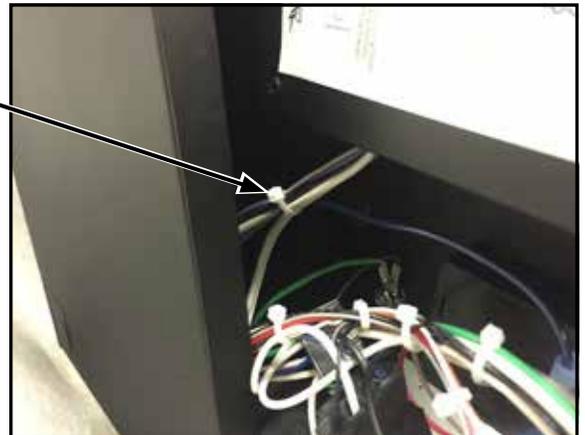


- 12** Push transformer against the electrical panel and secure it in place using the 6/32 nut provided.

Make sure there is a distance of 1/16" between the transformer and the capacitor.



- 13** Cut the zip tie off the wires entering the control box.



- 14** Locate the blue wire entering the control box.



- 15** Cut the blue wire and strip each end to a length of 3/8"

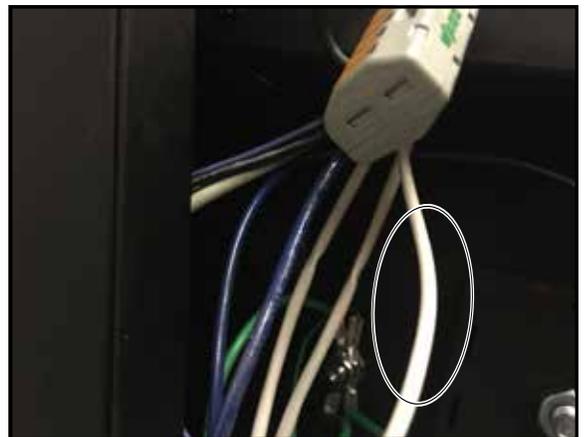


- 16** Secure the two blues from the unit and the black wire from the transformer into a lever connector.

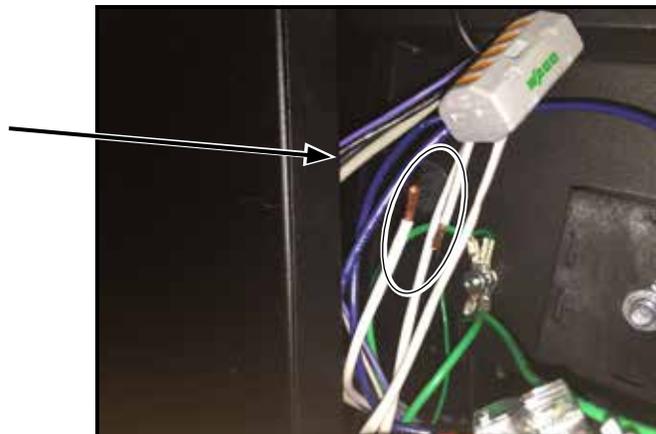


- 17** Locate the white 16awg white wire coming out of the control box.

Note: There may be other wires with white insulation around them, they will be a little thicker do not cut those wires.



- 18** Cut the white wire and strip each end to a length of 3/8".

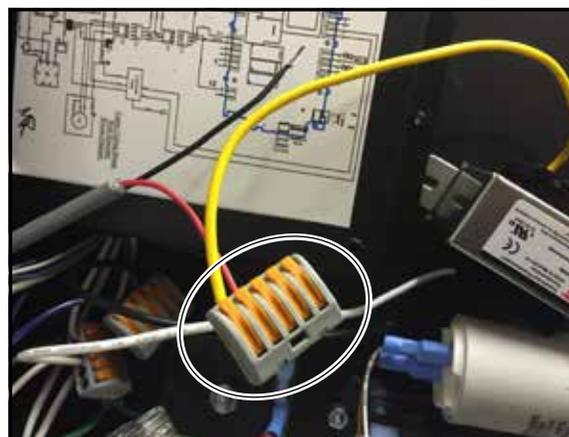


- 19** Secure the two white wires from the unit and the white wire from the transformer into a lever connector.



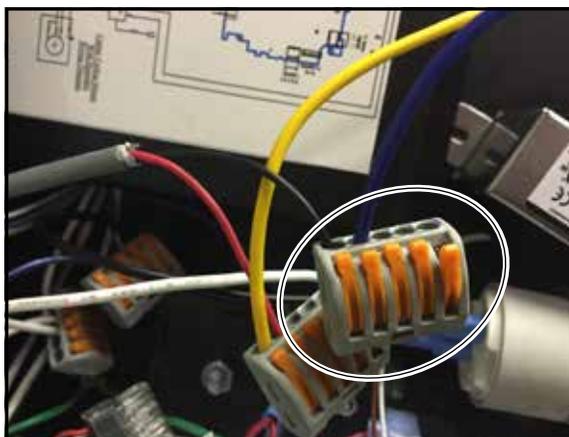
- 20** Secure one of the thermostat wires and the yellow wire from the transformer into a lever connector.

Note: The thermostat wire is the wire that was ran from the evaporator unit to the condensing unit.



- 21** Secure the other thermostat wire and the blue wire from the transformer into a lever connector.

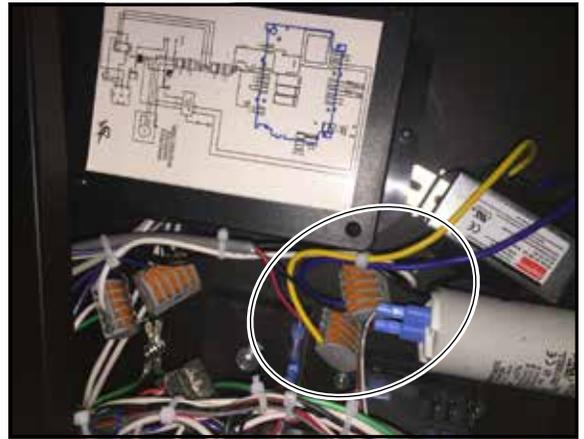
Note: The thermostat wire is the wire that was ran from the evaporator unit to the condensing unit.



22 Zip tie wires in locations shown.



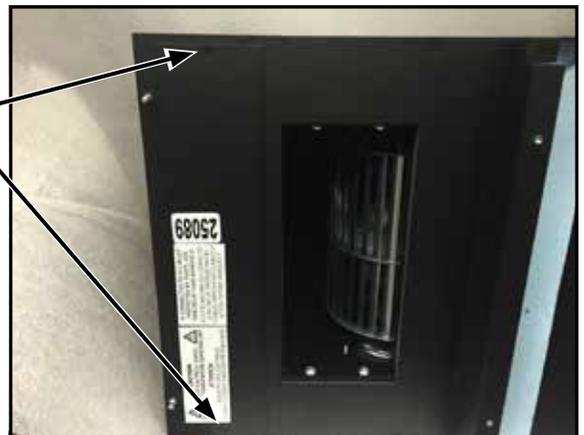
23 Tuck lever connectors into location shown.



24 Push electrical panel back up inside the unit and reinstall the thumbscrew removed in step #8.



25 Re-install the electrical panel using the 2 Phillips head screws removed in step #7.



- 26** Install the grill back on the evaporator unit and secure it to the unit using the 8 Phillips head screws removed in step #5.



The Cold Weather Start Kit has been successfully installed on the Evaporator Unit. If the installation process is complete on the condensing unit as well, plug both the condensing unit and evaporator units back into a power source.

*Whisper***KOOL™**

WhisperKOOL
1738 E. Alpine Ave
Stockton, CA 95205
1-800-343-9463
www.whisperkool.com