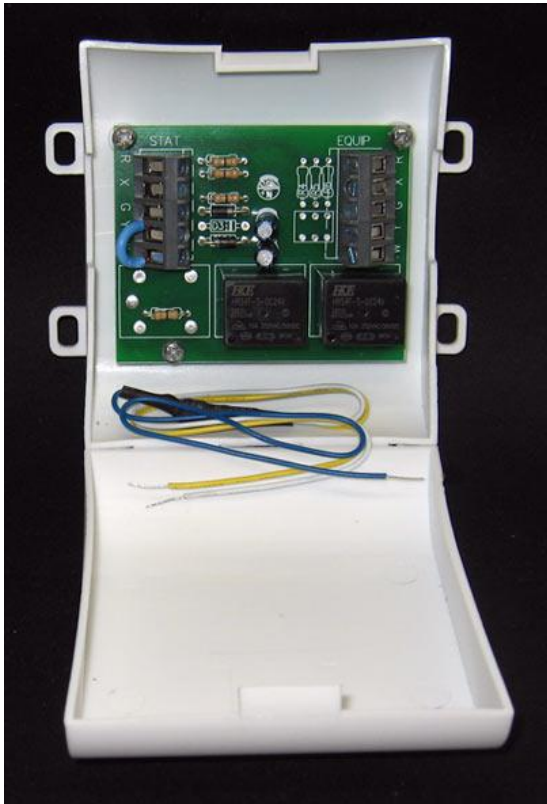


# CW-45 Installation Guide



	INPUT:	OUTPUT:
Voltage	18 – 30 Vac, 50 or 60 Hz	24 Vac, Class 2
Current	Up to .05 Amps	3.2 Amps

A & T, LC  
7490 S Holden Street  
Midvale, UT 84047

Contact:  
Terran Church  
435-757-7778

# Overview

- The CW-45 Create-a-Wire kit (Add-a-wire) will provide an extra wire to use as a common wire where all existing wires are used for operation in the HVAC system.
- The kit saves time over running new wires for the newly needed common and provides a solution in cases where there is a broken wire in the circuit.

## Warnings:

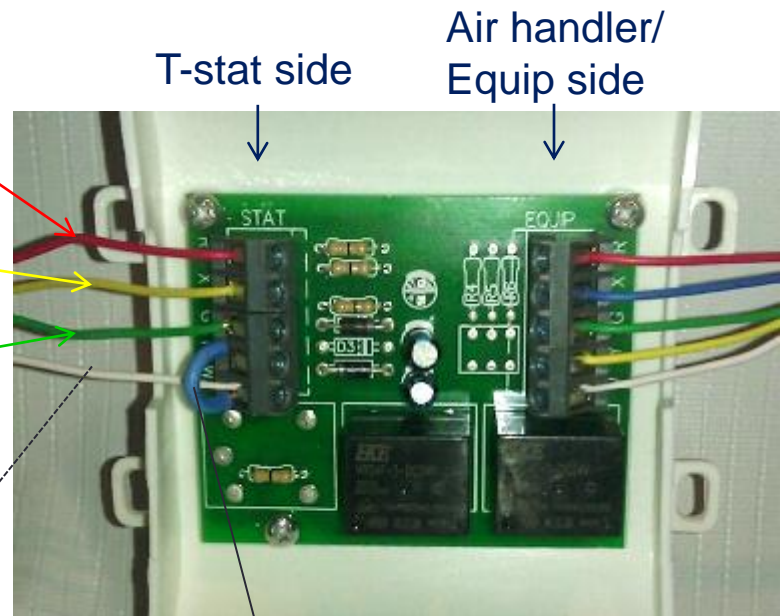
- **Always verify with a multi meter that all power is OFF (including the T-stat power) before beginning installation. Use insulated tools wherever possible.**
- Use industry wire color code to prevent inappropriate wire terminal connection.
- Never terminate 120vac directly to either side of the CW-45 circuit board or damage will result
- Never terminate 24vac to any spot other than R on either side of the CW-45 board or damage will result.

# Wiring – Thermostat side

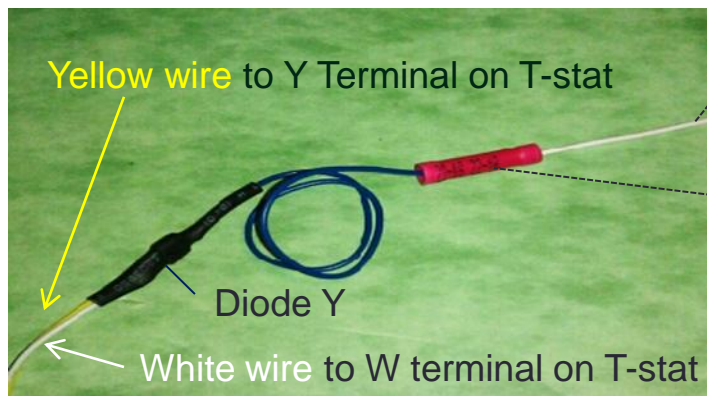
**R** on CW-45 board to R or 24vac on T-stat

**X** on CW-45 board to C or common in the T-stat. (The only wire colors that should be used to act as the added wire -- the new common wire -- are white or yellow.)

**G** on CW-45 board to G or fan in the T-stat



Jumper must remain in place



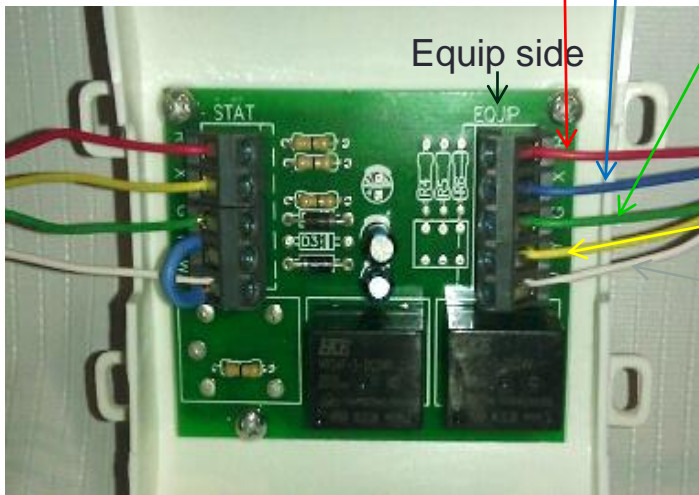
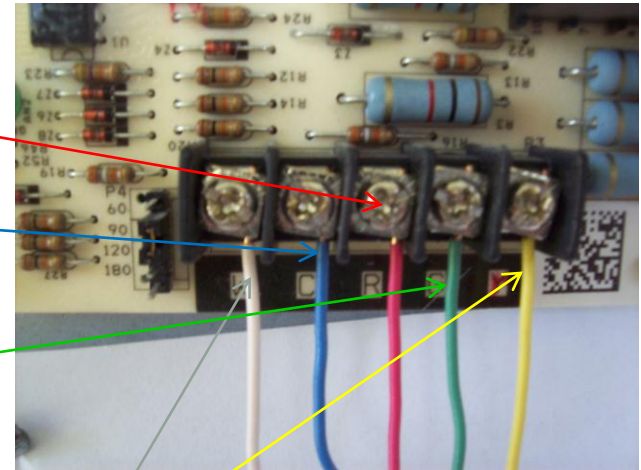
The wire being used as the communication wire from the kit must be crimped to the blue wire of the Diode Y before connecting to the thermostat

# Wiring – Equipment side

R terminal on the CW-45 kit to R terminal (24 VAC) on the Air Handler

X on the CW-45 kit to C terminal (Common) on the Air Handler

G terminal on CW-45 to G terminal (Fan) on the Air Handler  
W terminal on the CW-45 kit to W terminal (Heat) on the Air Handler



Y terminal on the CW-45 to the Y terminal (Cooling) on the Air Handler

W terminal on the CW-45 to W terminal (Heat) on the Air Handler