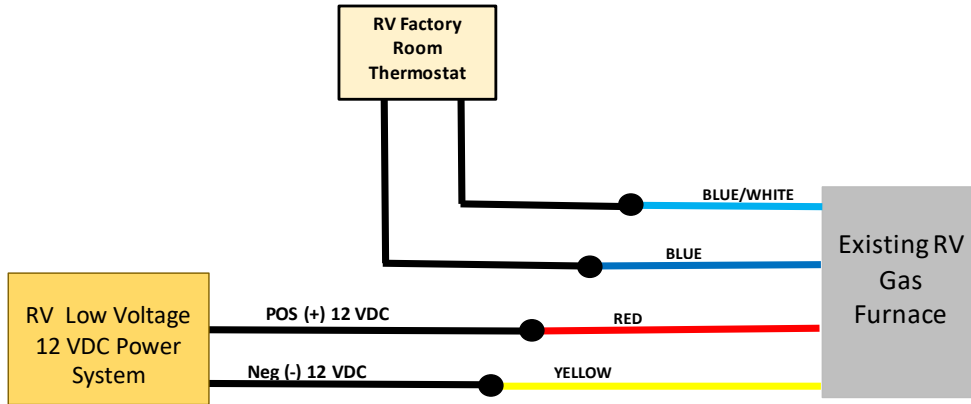
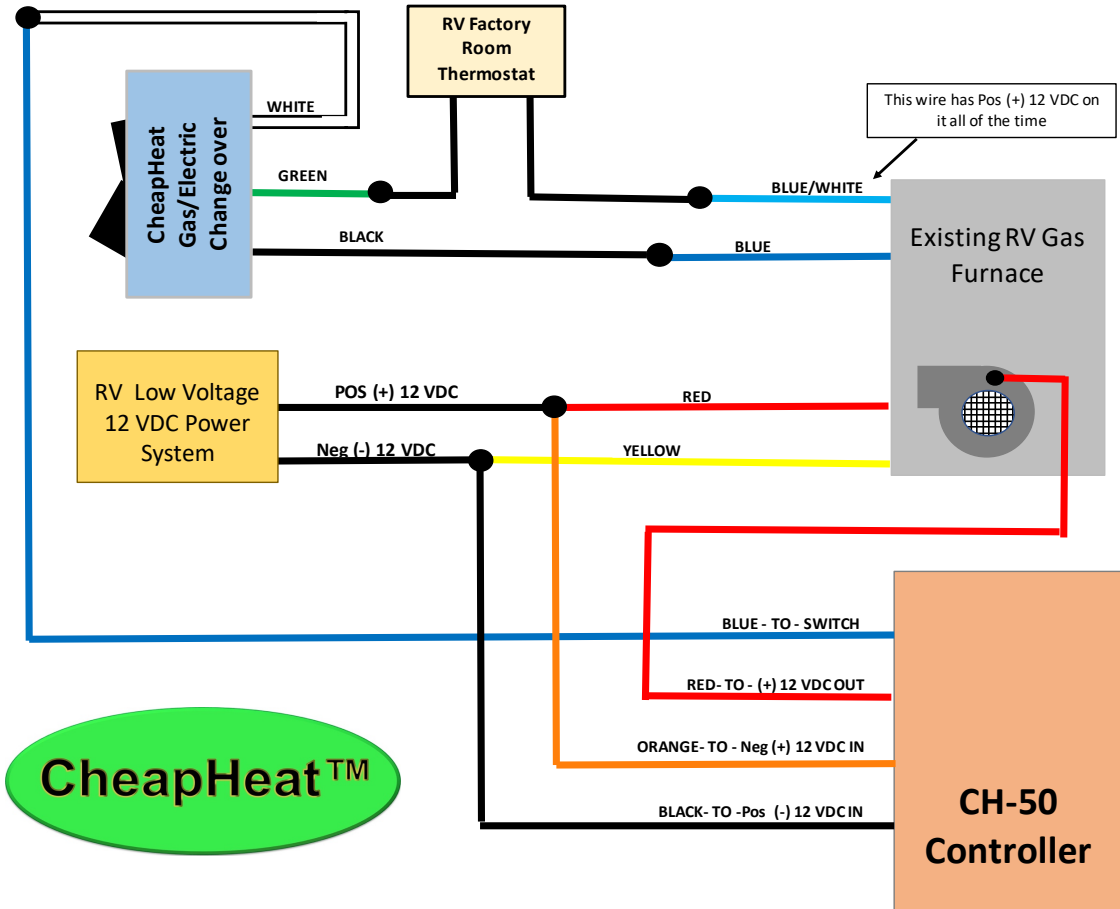


Low Voltage 12 VDC wiring for Gas Furnace



Picture above shows furnace wiring before CheapHeat system is installed



Picture above shows furnace wiring With the CheapHeat system is installed

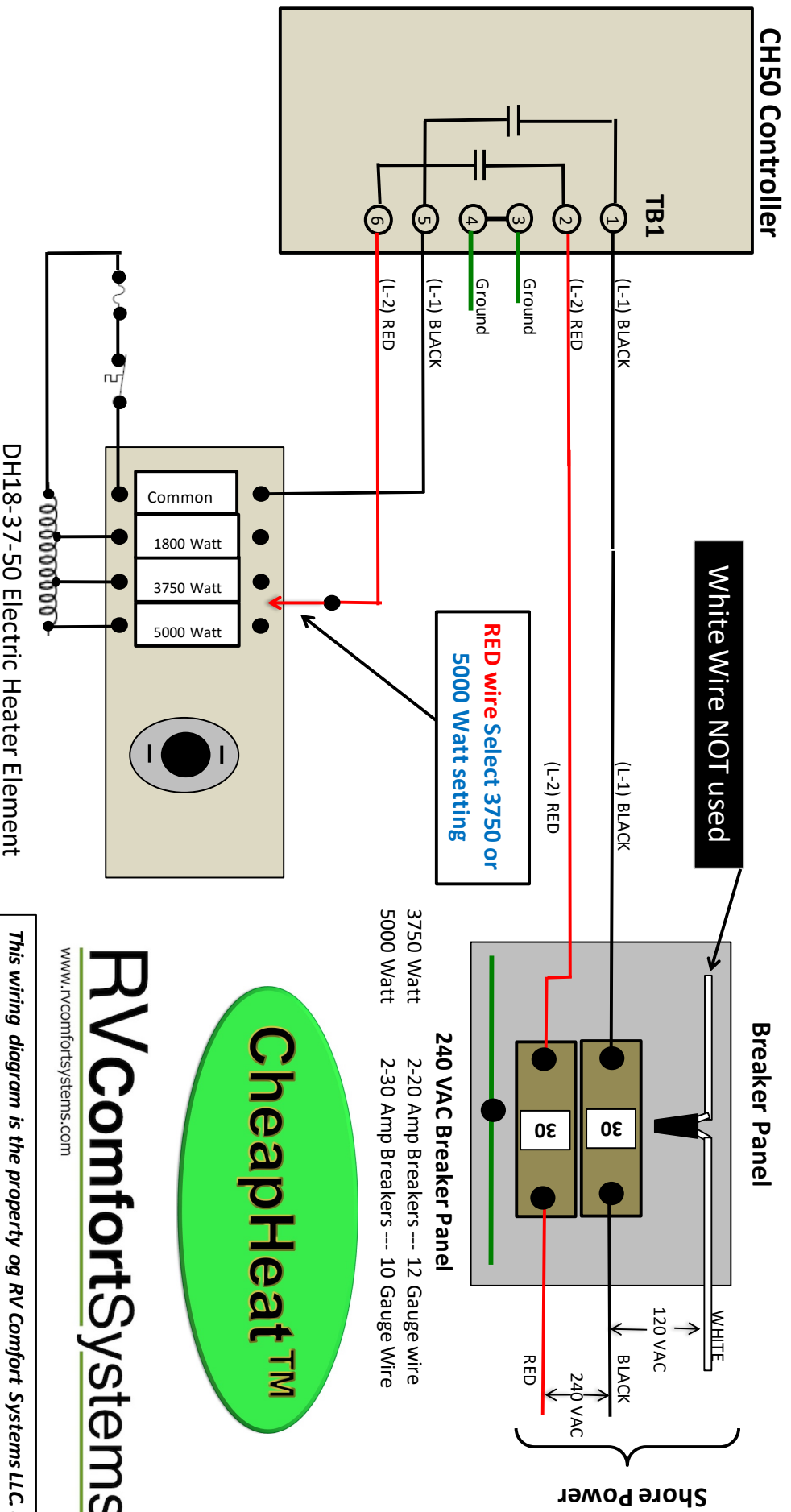
RV Comfort Systems LLC.

www.rvcomfortsystems.com

High Voltage Wiring For Hi Voltage

3750 or 5000 Watt System

Wire color codes and wiring to terminals must be followed EXACTLY as shown.



RVcomfortSystems

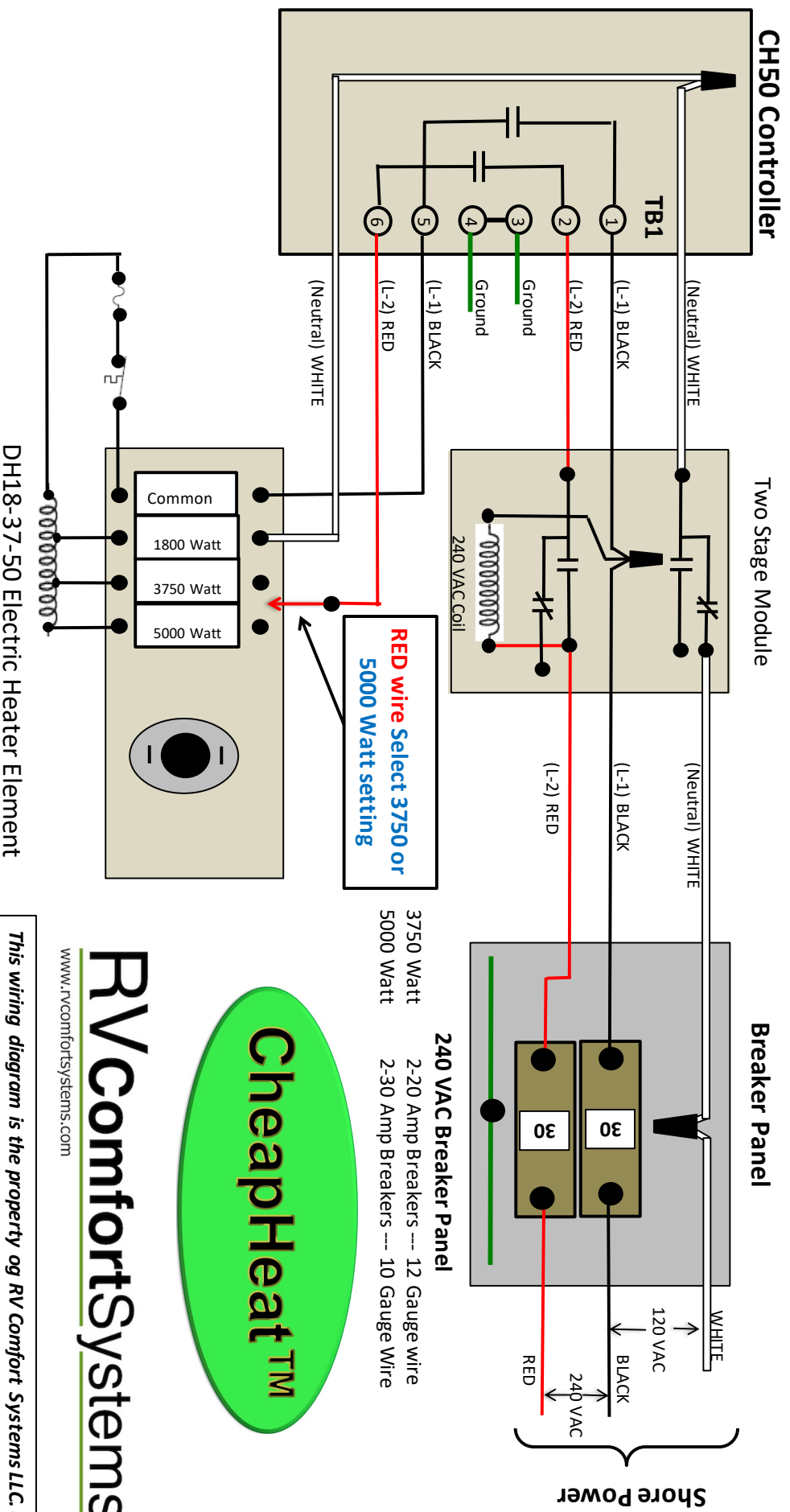
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- 3750 Watt 2-20 Amp Breakers --- 12 Gauge wire
- 5000 Watt 2-30 Amp Breakers --- 10 Gauge Wire

High Voltage Wiring for Dual Voltage System

Wire color codes and wiring to terminals must be followed EXACTLY as shown.



RVcomfortSystems

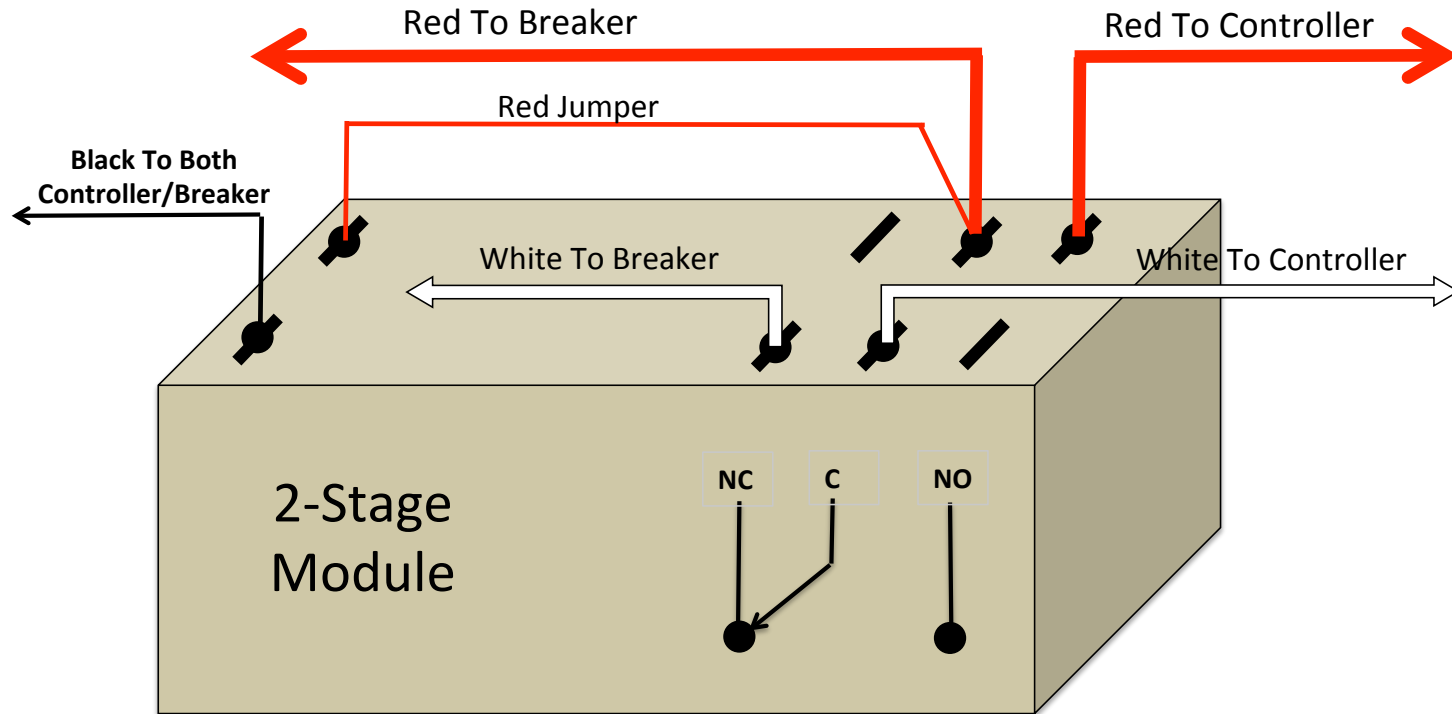
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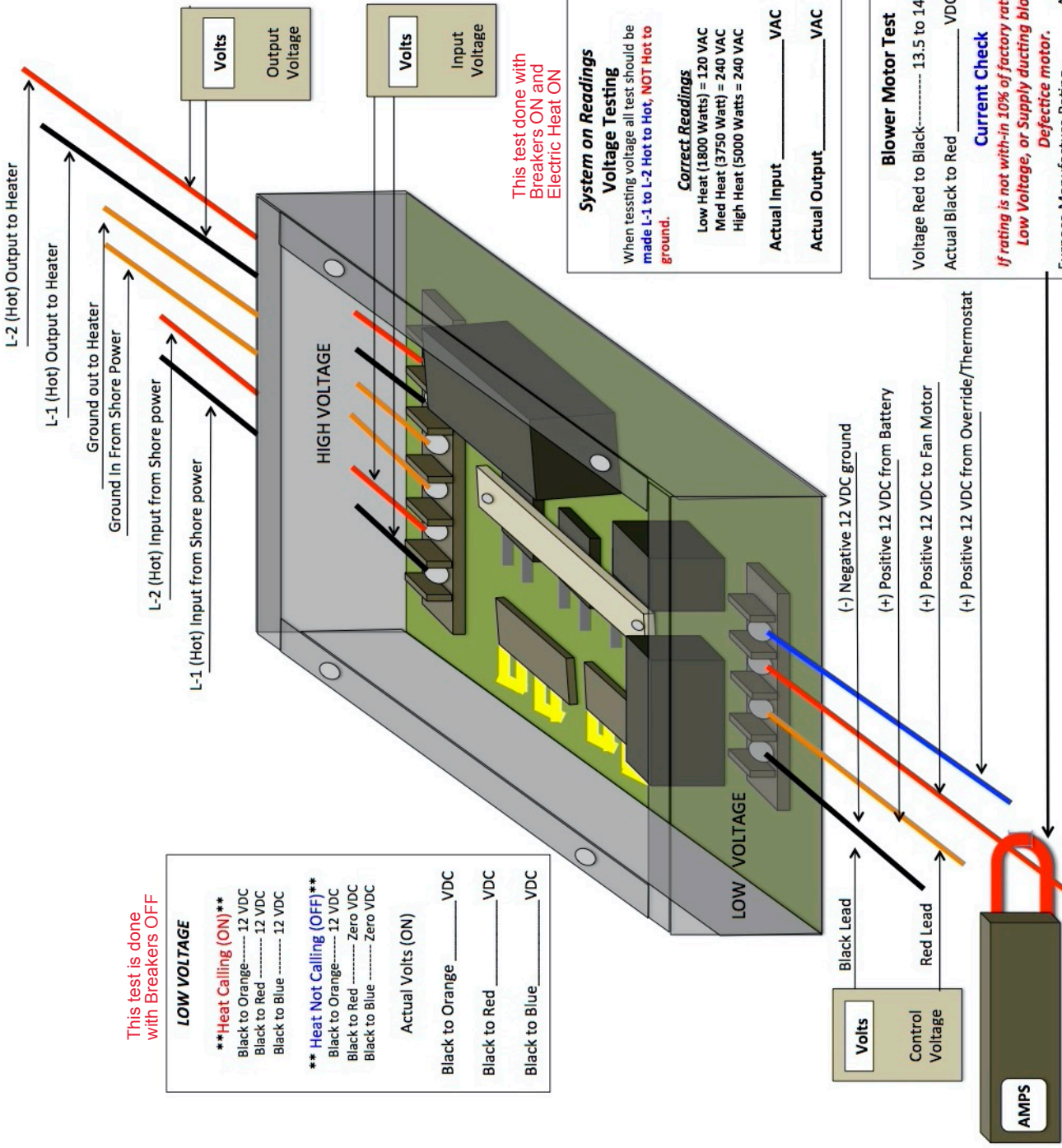
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CheapHeat™



2-Stage Module Layout

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This test is done with Breakers OFF

LOW VOLTAGE

****Heat Calling (ON)****
 Black to Orange 12 VDC
 Black to Red 12 VDC
 Black to Blue 12 VDC

**** Heat Not Calling (OFF)****
 Black to Orange 12 VDC
 Black to Red Zero VDC
 Black to Blue Zero VDC

Actual Volts (ON)

Black to Orange VDC
 Black to Red VDC
 Black to Blue VDC

This test done with Breakers ON and Electric Heat ON

System on Readings Voltage Testing
 When testing voltage all test should be made L-1 to L-2 Hot to Hot, NOT Hot to ground.

Correct Readings
 Low Heat (1800 Watts) = 120 VAC
 Med Heat (3750 Watt) = 240 VAC
 High Heat (5000 Watts = 240 VAC

Actual Input VAC
 Actual Output VAC

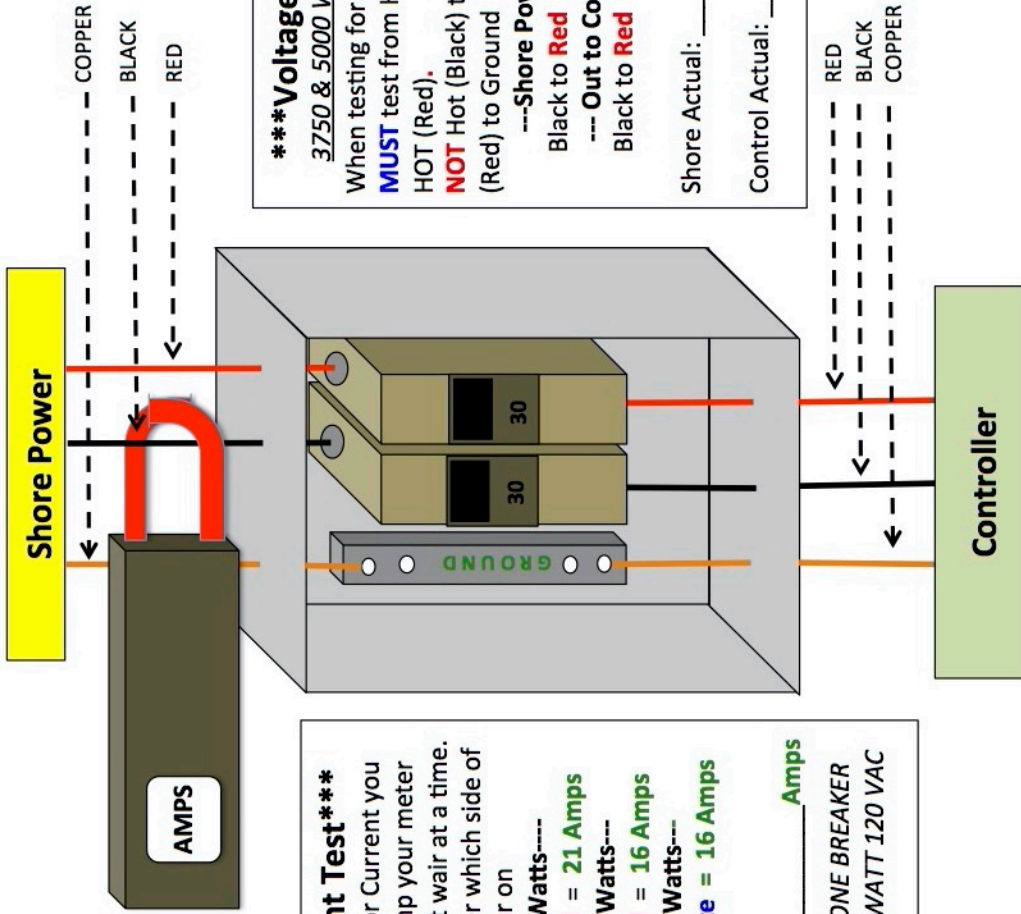
Blower Motor Test
 Voltage Red to Black 13.5 to 14.1 VDC
 Actual Black to Red VDC

Current Check
 If rating is not within 10% of factory rating you have:
 Low Voltage, or Supply ducting blockage, or Defective motor.

Furnace Manufacture Rating Amps
 Actual Current Reading Amps

This test is done with Breakers OFF & Electric Heat ON

These test are done with Breakers ON & Electric Heat ON



*****Current Test*****
 When testing for Current you **MUST** only clamp your meter around **ONE** hot wire at a time. It doesn't matter which side of the breaker your on
 ---5000 Watts---
 Black or Red = 21 Amps
 --- 3750 Watts---
 Black or Red = 16 Amps
 --- 1800 Watts---
 Black or White = 16 Amps
 Amps Actual: _____ Amps
**** Note: ONLY ONE BREAKER USED ON 1800 WATT 120 VAC SYSTEM**

*****Voltage Test*****
3750 & 5000 Watt System
 When testing for 240 VAC you **MUST** test from HOT (Black) to HOT (Red).
NOT Hot (Black) to Ground, Hot (Red) to Ground
 ---Shore Power In---
 Black to Red = 240 VAC
 --- Out to Controller---
 Black to Red = 240 VAC
 Shore Actual: _____ VAC
 Control Actual: _____ VAC

*****Voltage Test*****
1800 Watt System
 When testing for 120 VAC you **MUST** test from HOT (Black) to Neutral (White).
NOT Hot (Black) to Ground, Neutral (White) to Ground
 ---Shore Power In---
 Black to White = 120 VAC
 --- Out to Controller---
 Black to White = 120 VAC
 Shore Actual: _____ VAC
 Control Actual: _____ VAC