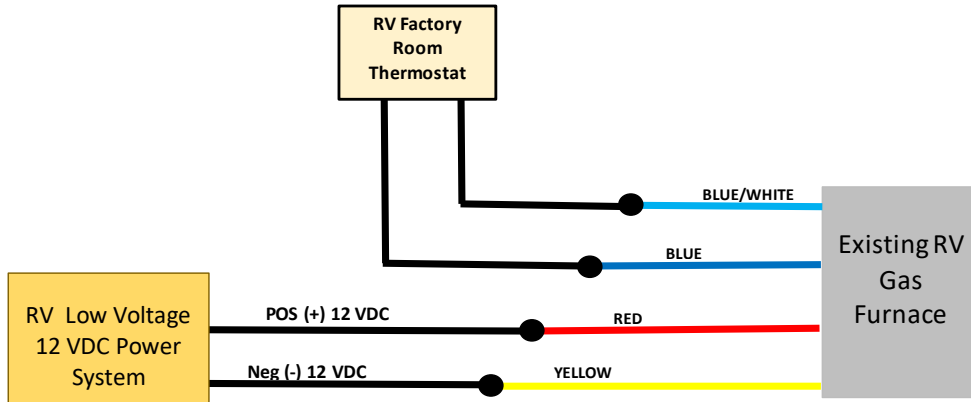
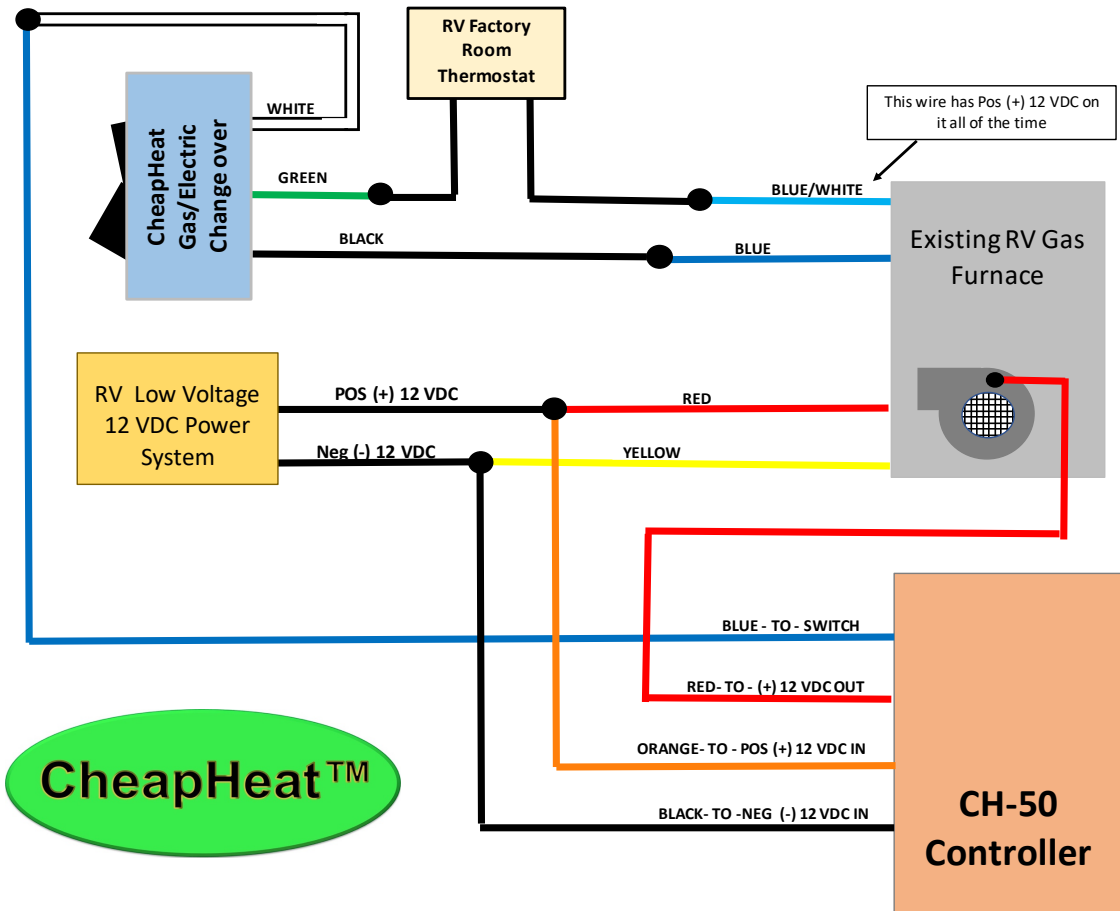


## Low Voltage 12 VDC wiring for Gas Furnace



Picture above shows furnace wiring before CheapHeat system is installed



Picture above shows furnace wiring With the CheapHeat system is installed

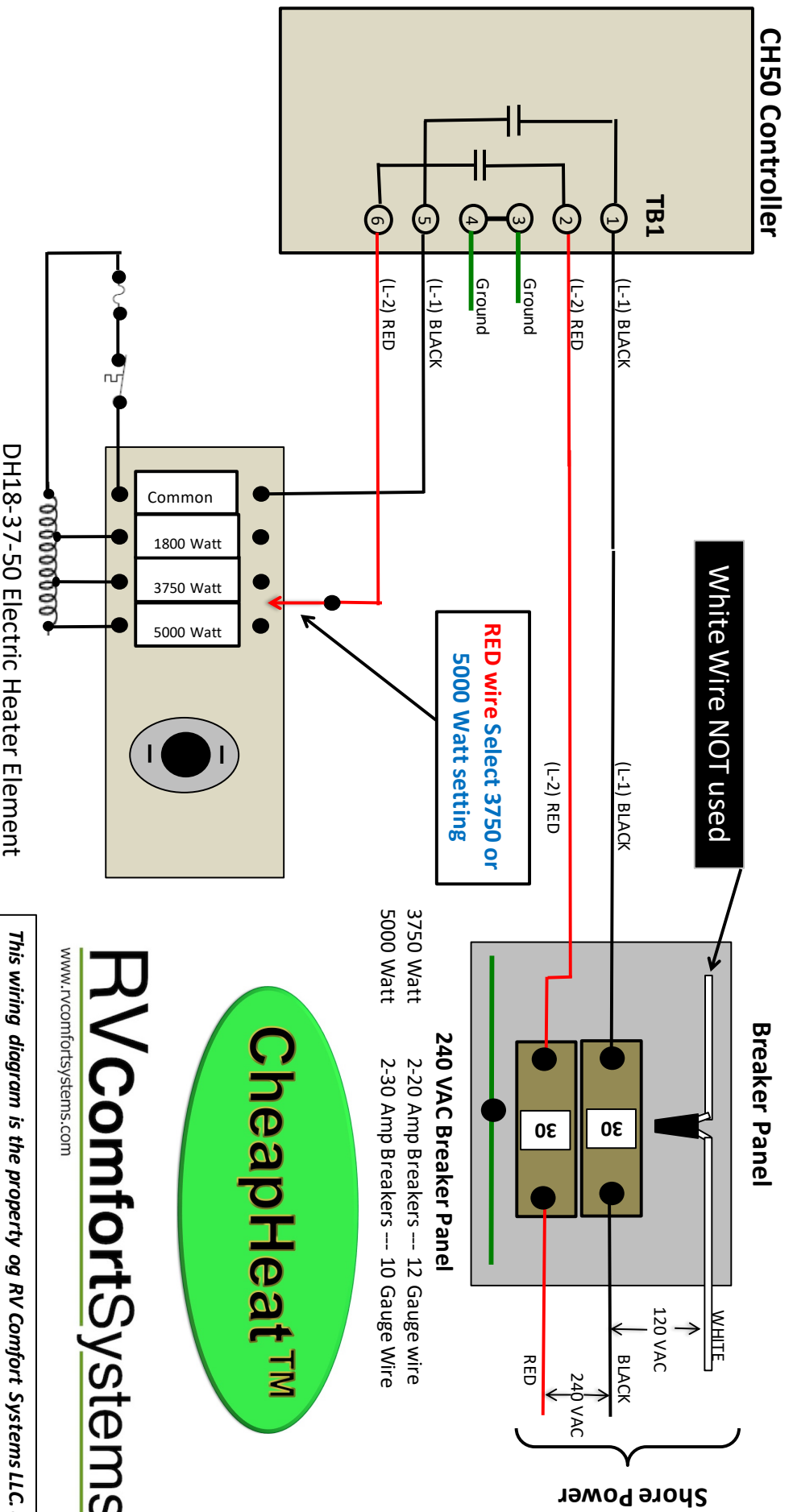
# RV Comfort Systems LLC.

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.*



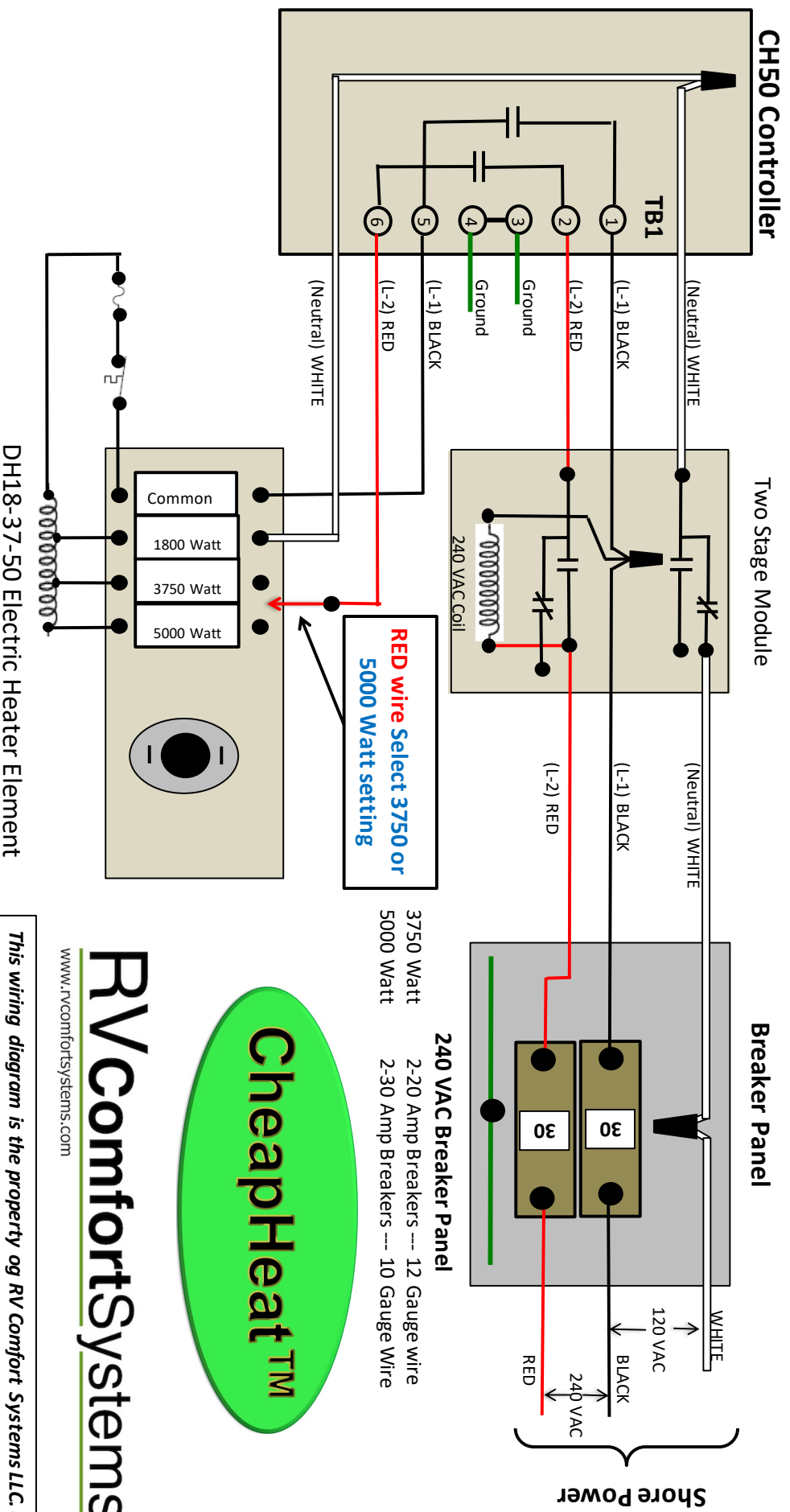
# RVcomfortSystems

www.rvcomfortsystems.com

*This wiring diagram is the property of RV Comfort Systems LLC. and may not be copied or reproduced without written permission from RV Comfort Systems LLC. PO Box 1554 Bothell, WA 98041*

# High Voltage Wiring for Dual Voltage System

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



# RVcomfortSystems

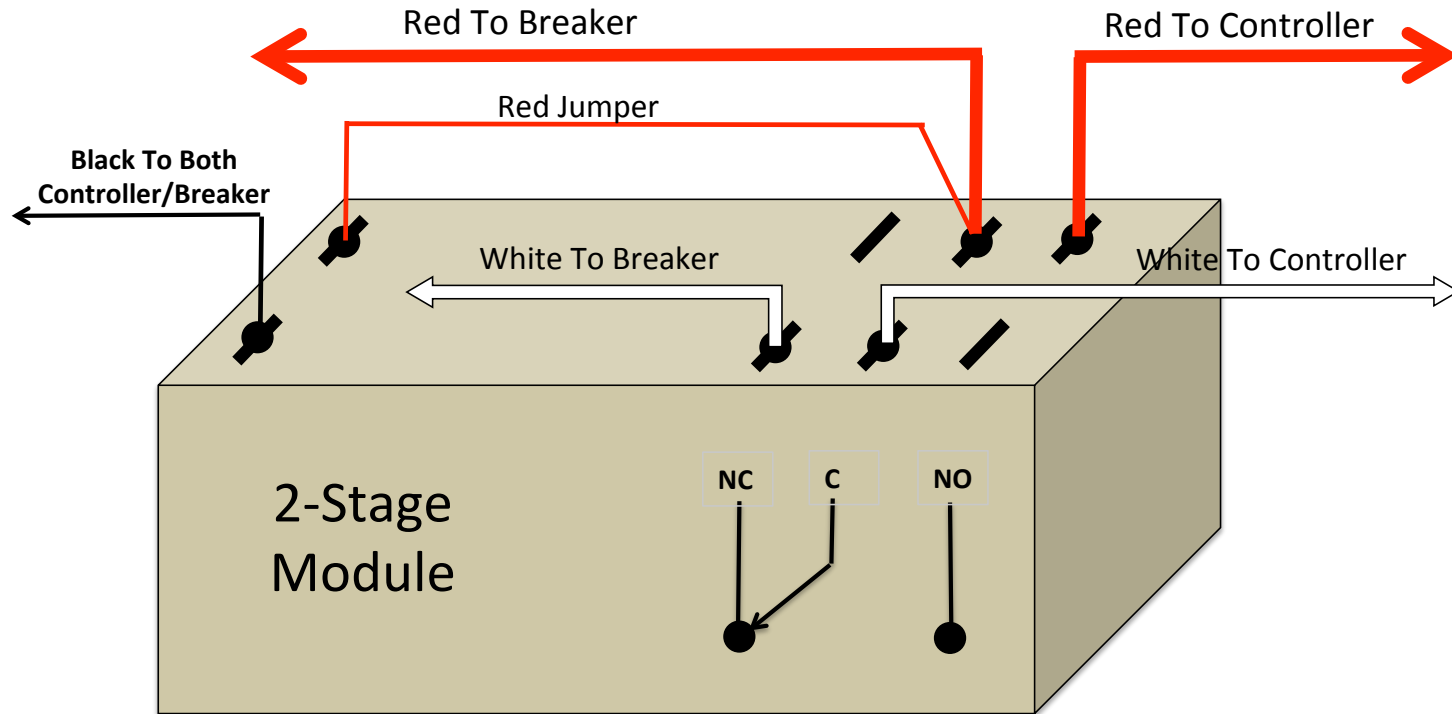
www.rvcomfortsystems.com

*This wiring diagram is the property of RV Comfort Systems LLC. and may not be copied or reproduced without written permission from RV Comfort Systems LLC. PO Box 1554 Bothell, WA 98041*

# RV Comfort Systems LLC.

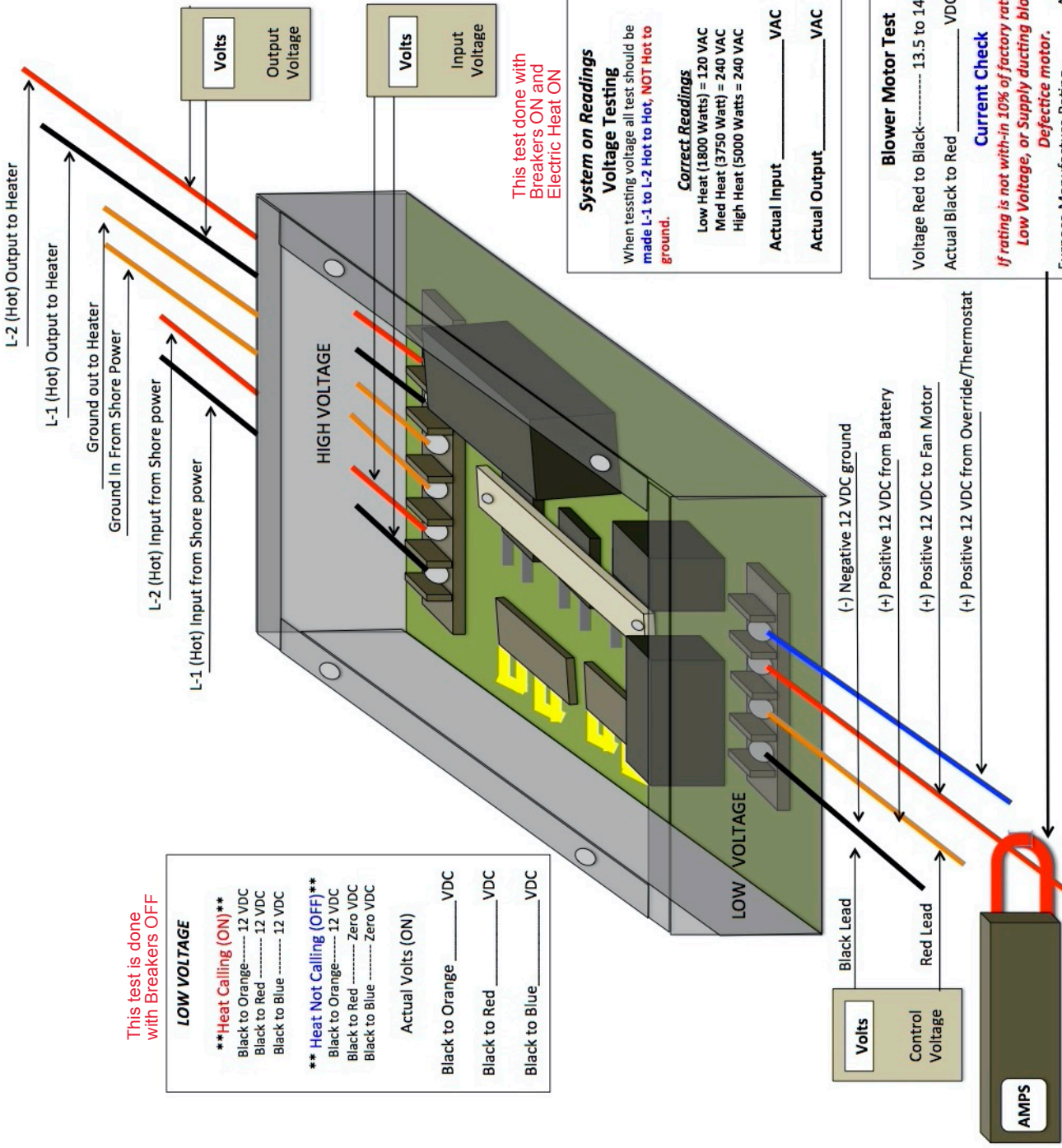
www.rvcomfortsystems.com

CheapHeat™



## 2-Stage Module Layout

All Art and Design information contained in this document and/or attachments are the property of RV Comfort Systems LLC and may not be copied, duplicated or printed without written permission from RV Comfort Systems LLC.  
PO Box 1554 Bothell, Washington 98041 Ph# 425-408-3140 Fax# 800-453-8961



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**

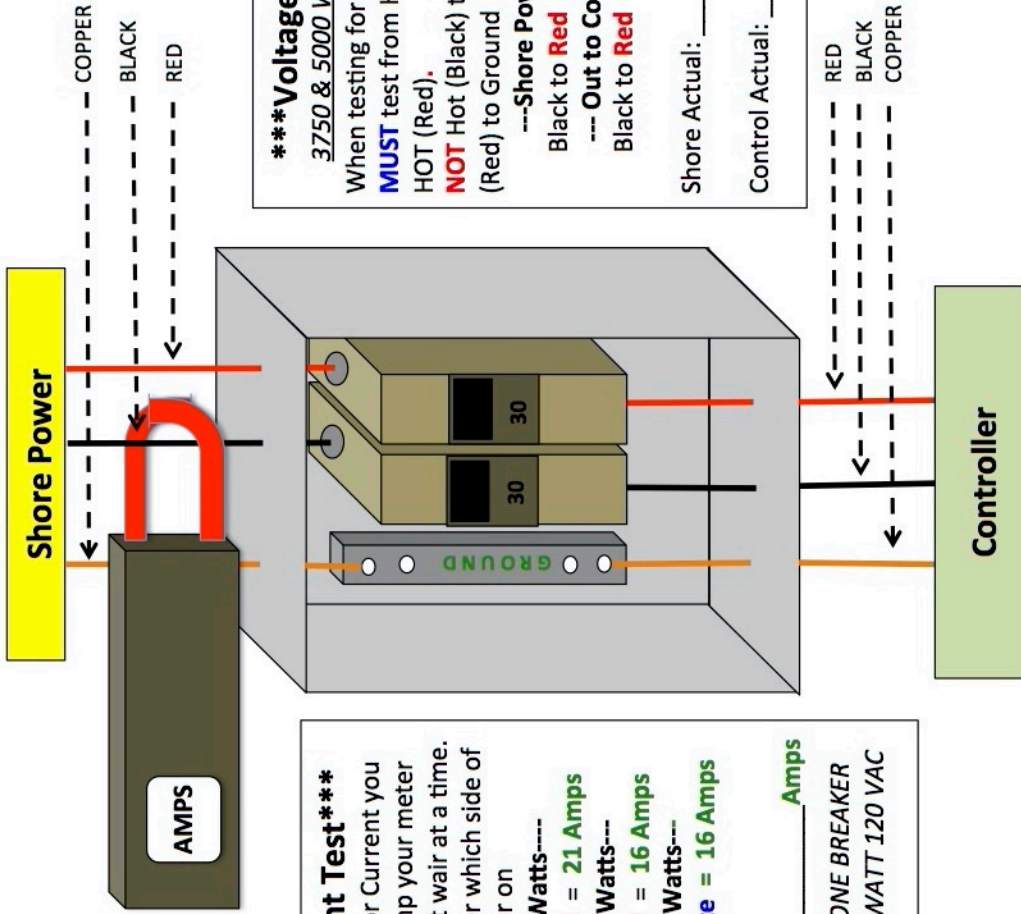
If rating is not with-in 10% of factory rating you have:  
 Low Voltage, or Supply ducting blockage, or Defective motor.

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