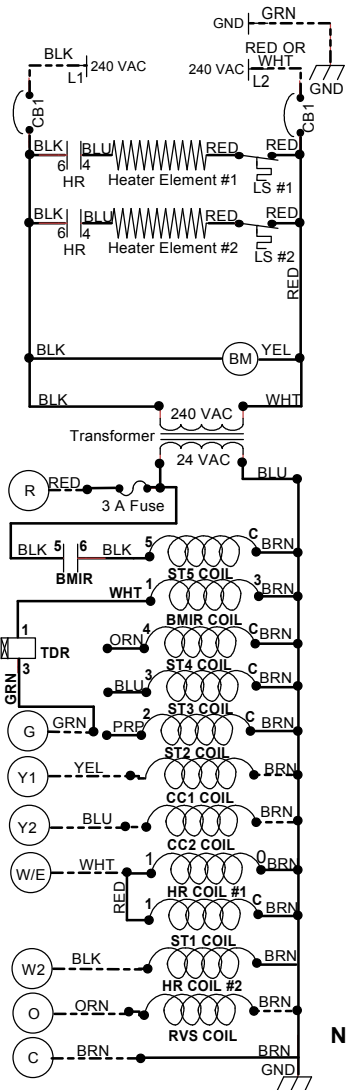


ELECTRIC FURNACE WIRING DIAGRAM - X-13 MOTOR

CONNECTION DIAGRAM

LADDER DIAGRAM



- CAUTION -
Open all disconnects
before servicing this unit.

- NOTES**
1. All field wiring must be per the following:
A: National Electrical Code (NEC) and / or
B: Canadian Electrical Code (CEC) and / or
C: State, County, Local, Regional, or City Codes.
 2. If any of the original wire must be replaced;
then replace the wire with wire that has the same
temperature rating of at least 221 degF (105 degC).
 3. Only use copper conductors for field wiring.
 4. All replacement components must be properly grounded.
 5. Provide circuit breakers sized to protect wiring from main
service to the control box circuit breakers.
 6. Motors have internal over-temperature protection.

Control Box

LEGEND

BM	Blower Motor	LS	Limit Switch
BSCR	Blower Speed Change Relay	MP	9 Pin Male Plug
CB	Circuit Breaker	ST1	BM Speed Tap #1
CC1	Compressor Contactor Y1	ST2	BM Speed Tap #2
CC2	Compressor Contactor Y2	ST3	BM Speed Tap #3
FP	9 Pin Female Plug	ST4	BM Speed Tap #4
HR	Heater Relay	ST5	BM Speed Tap #5
IT	Transformer, 40 VA	RVS	Reversing Valve Solenoid
TDR	Blower Cooling Time Delay	---	Field Wiring
		---	Factory Wiring

WIRE COLOR KEY

BLK	Black
(NOIR)	
BLU	Blue
(BLEU)	
RED	Red
(ROUGE)	
YEL	Yellow
(JAUN)	
WHT	White
(BLANC)	
BRN	Brown
(BRUN)	
GRN	Green
(VERT)	
PRP	Purple
(POURPRE)	
ORN	Orange
(ORA)	

Blower Motor Terminals and Speed Taps

L1 = 3/16" Spade Terminal
L2/N = 3/16" Spade Terminal
Com = 3/16" Spade Terminal
GND = 1/4" Spade Terminal
T1 = 1/4" Spade Terminal - ST1 = Lo Speed
T2 = 1/4" Spade Terminal - ST2 = Med-Lo Speed
T3 = 1/4" Spade Terminal - ST3 = Medium Speed
T4 = 1/4" Spade Terminal - ST4 = Med-Hi Speed
T5 = 1/4" Spade Terminal - ST5 = Hi Speed

WIRING DIAGRAM # 61CC0031

FOR THE 8 kW, 10 kW, 12 kW TWO STAGE ELECTRIC HEATER'S

