

# WIRING DIAGRAM MANUAL

## Apartment Fan Coil

### FMA4P, FMA4X

#### Safety Labeling and Signal Words

##### DANGER, WARNING, CAUTION, and NOTE

The signal words **DANGER**, **WARNING**, **CAUTION**, and **NOTE** are used to identify levels of hazard seriousness. The signal word **DANGER** is only used on product labels to signify an immediate hazard. The signal words **WARNING**, **CAUTION**, and **NOTE** will be used on product labels and throughout this manual and other manuals that may apply to the product.

**DANGER** – Immediate hazards which **will** result in severe personal injury or death.

**WARNING** – Hazards or unsafe practices which **could** result in severe personal injury or death.

**CAUTION** – Hazards or unsafe practices which **may** result in minor personal injury or product or property damage.

**NOTE** – Used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

##### Signal Words in Manuals

The signal word **WARNING** is used throughout this manual in the following manner:



The signal word **CAUTION** is used throughout this manual in the following manner:



##### Signal Words on Product Labeling

Signal words are used in combination with colors and/or pictures on product labels.

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#### MODELS

FMA4P1800A  
 FMA4P2400A  
 FMA4P3000A  
 FMA4P3600A  
 FMA4X1800A  
 FMA4X2400A  
 FMA4X3000A  
 FMA4X3600A

**DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE HAZARD**

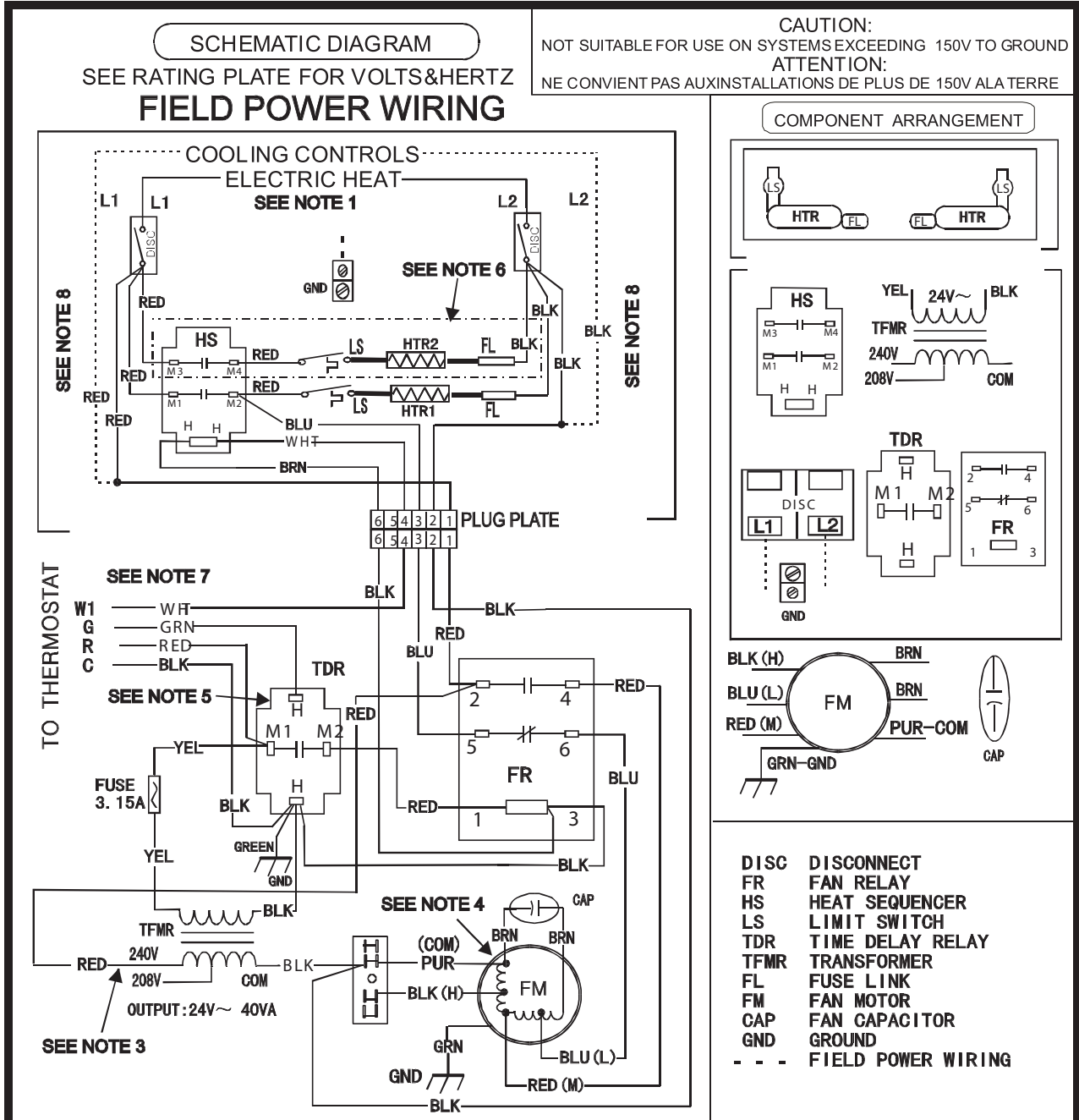
**Failure to carefully read and follow this warning could result in equipment malfunction, property damage, personal injury and/or death.**

**Installation or repairs made by unqualified persons could result in equipment malfunction, property damage, personal injury and/or death.**

**The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.**

**Installation must conform with local building codes and with the National Electrical Code NFPA70 current edition or Canadian Electrical Code Part 1 CSA C.22.1.**

FMA4P Wiring Diagram – TDR (Fan Motor Sequencer), PSC Motor



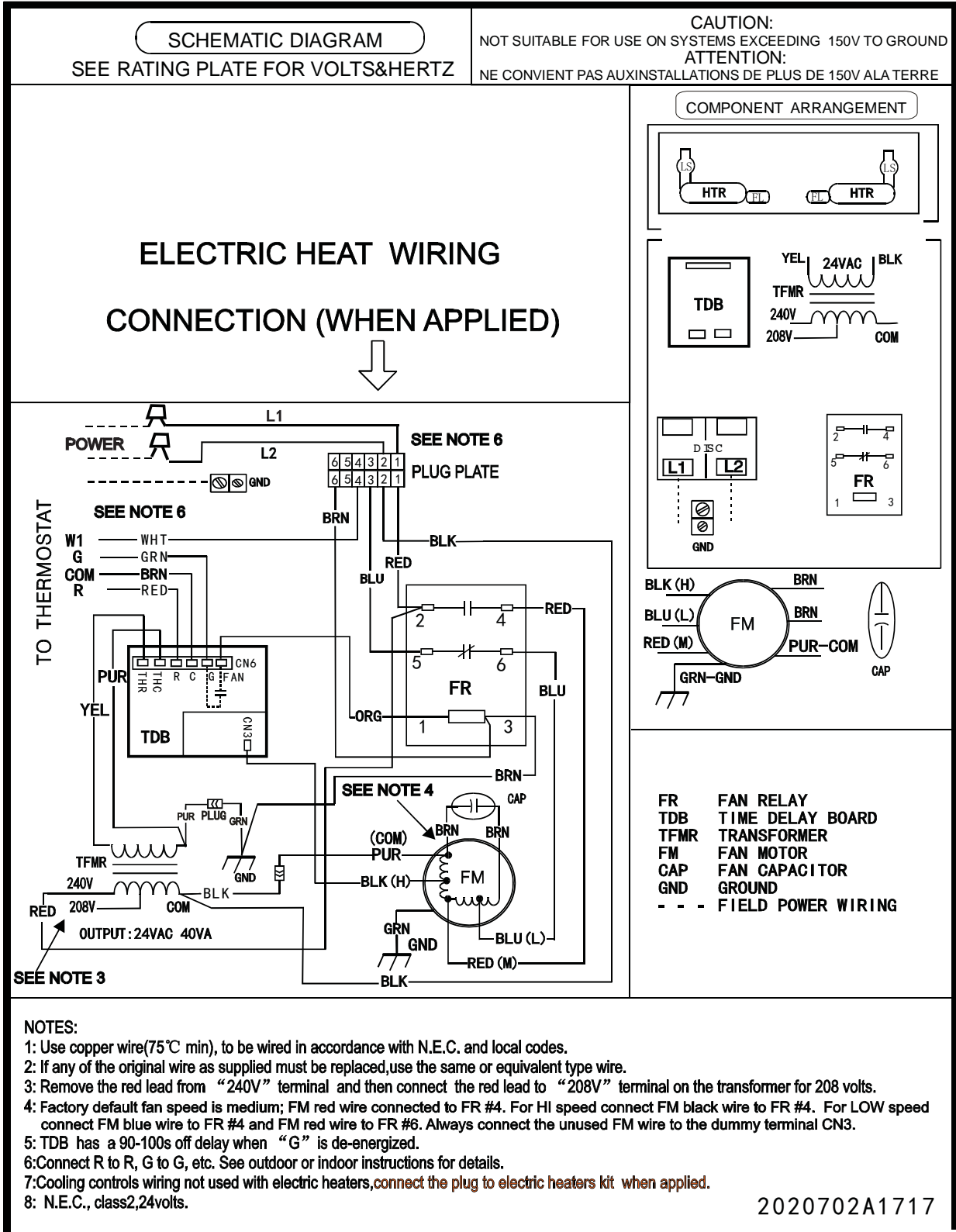
- NOTES:**
- 1: Use copper wire (75°C min) only between disconnect switch and unit, To be wired in accordance with N.E.C. and local codes.
  - 2: If any of the original wire as supplied must be replaced, use the same or equivalent type wire.
  - 3: Remove the red lead from "240V" terminal and then connect the red lead to "208V" terminal on the transformer for 208 volts.
  - 4: Factory default fan speed is medium; FM red wire connected to FR #4. For HI speed connect FM black wire to FR #4. For LOW speed connect FM blue wire to FR #4 and FM red wire to FR #6. Always connect the unused FM wire to the dummy terminal block.
  - 5: TDR has a 1-30s on delay when "G" is energized and a 45-75s off delay when "G" is de-energized.
  - 6: The 5kW heater kit has HTR1 only. Fan coils equipped with electric heat connect power supply to circuit breaker.
  - 7: Connect R to R, G to G, etc. See outdoor or indoor instructions for details.
  - 8: Cooling controls wiring not used with electric heaters.

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**NOTE:** TDR replaced sequencer for FMA4P beginning with serial number V151564918

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FMA4P Wiring Diagram – PSC Motor and Time Delay Board



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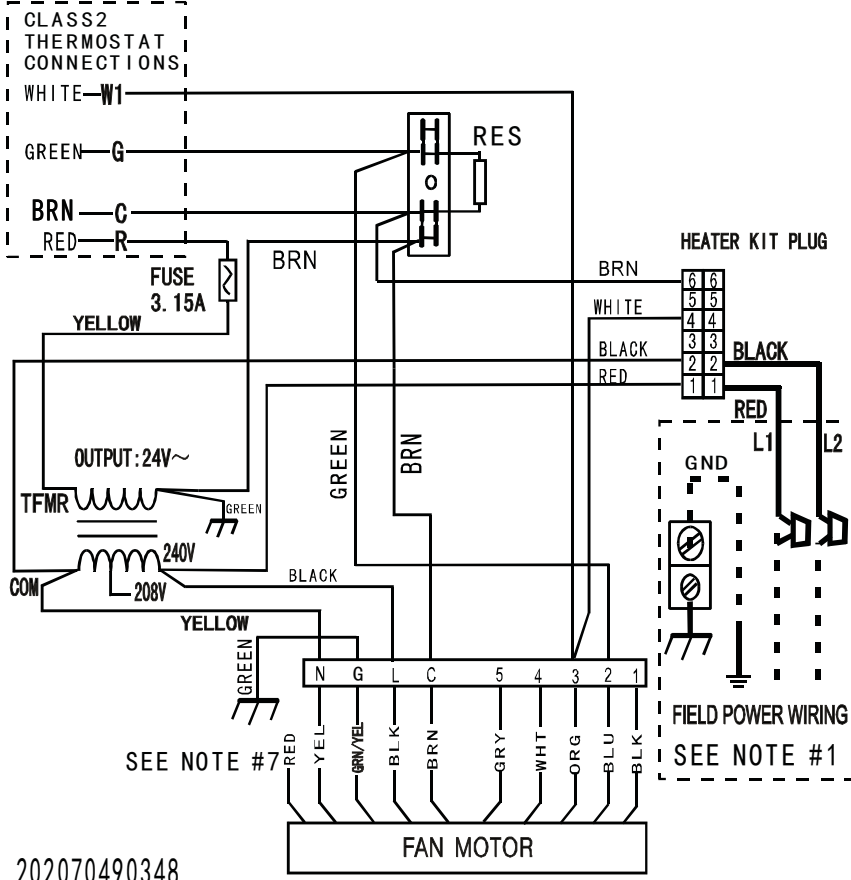
**NOTE:** TDR replaced sequencer for FMA4P beginning with serial number V151564918

FMA4X 1-1/2 ton and 2-1/2 Wiring Diagram, ECM Motor

SCHEMATIC DIAGRAM

SEE RATING PLATE FOR VOLTS&HERTZ  
**FIELD POWER WIRING**

CAUTION:  
NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND  
ATTENTION:  
NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150V ALA TERRE

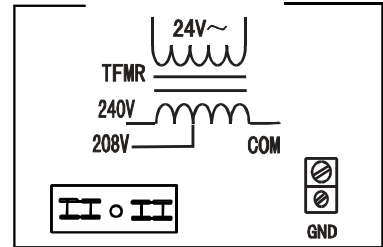


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NOTES:

- 1: Use Copper Wire (75°C Min) Only Between Disconnect Switch And Unit .
- 2: To Be Wired In Accordance With NEC And Local Codes.
- 3: If Any Of The Original Wire ,As Supplied, Must Be Replaced. Use The Same Or Equivalent Type Wire.
- 4: Connect R To R, G To G, Etc. See Outdoor Instruction For Details.
- 5: To Change Speed Tap, Move Green Wire Desired Terminal.
- 6: See Airflow Tables For Tap Usage.
- 7: Factory Wires May Be Present, DO NOT USE.
- 8: Taps 2 & 4 Have a 90s Delay Off, Taps 1, 3 & 5 are 30s.

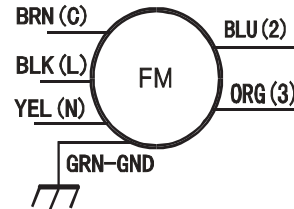
COMPONENT ARRANGEMENT



SPEED TAP SELECTION

- 1 LOW
- 2 MEDIUM LOW
- 3 MEDIUM
- 4 MEDIUM HIGH
- 5 HIGH

SEE NOTE #5, #6 & #8.



TFMR TRANSFORMER  
FM FAN MOTOR  
GND GROUND  
RES RESISTOR  
- - - FIELD POWER WIRING

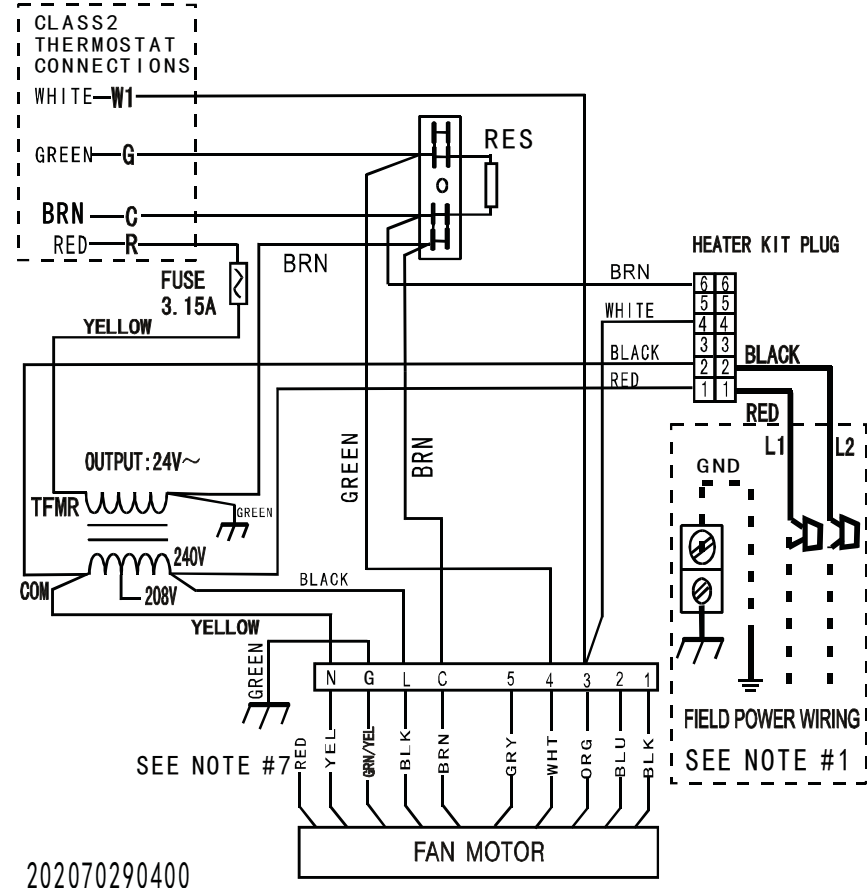
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FMA4X 2 ton and 3 ton Wiring Diagram, ECM Motor

**SCHEMATIC DIAGRAM**

SEE RATING PLATE FOR VOLTS&HERTZ  
**FIELD POWER WIRING**

**CAUTION:**  
NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND  
**ATTENTION:**  
NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150V ALA TERRE

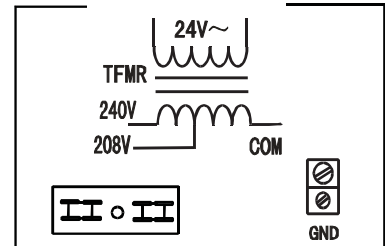


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**NOTES:**

- 1: Use Copper Wire (75°C Min) Only Between Disconnect Switch And Unit .
- 2: To Be Wired In Accordance With NEC And Local Codes.
- 3: If Any Of The Original Wire ,As Supplied,Must Be Replaced.Use The Same Or Equivalent Type Wire.
- 4: Connect R To R,G To G,Etc.See Outdoor Instruction For Details.
- 5: To Change Speed Tap,Move Green Wire Desired Terminal.
- 6: See Airflow Tables For Tap Usage.
- 7:Factory Wires May Be Present,DO NOT USE.
- 8:Taps 2 & 4 Have a 90s Delay Off, Taps 1, 3 & 5 are 30s.

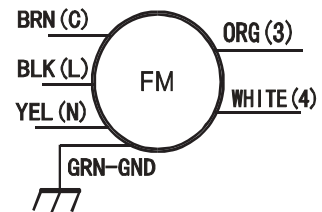
**COMPONENT ARRANGEMENT**



**SPEED TAP SELECTION**

- 1 LOW
- 2 MEDIUM LOW
- 3 MEDIUM
- 4 MEDIUM HIGH
- 5 HIGH

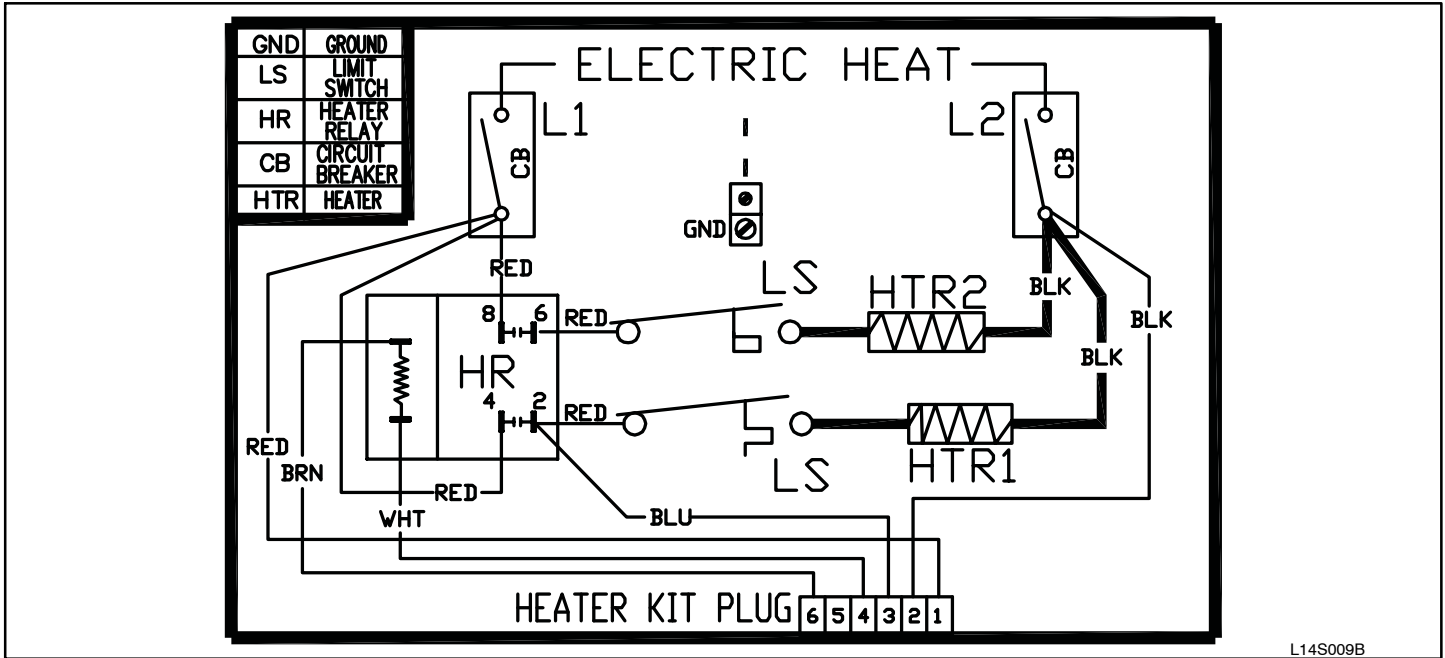
SEE NOTE #5, #6 & #8.



TFMR TRANSFORMER  
FM FAN MOTOR  
GND GROUND  
RES RESISTOR  
- - - FIELD POWER WIRING

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EHK2 - Wiring Diagram



EHK2 - Electric Heat Wiring Diagram

