

# FAN COILS ACCESSORY ELECTRIC HEATERS

## WIRING DIAGRAMS

| FIG. | FIELD INSTALLED HEATER MODEL | FB4C  | FE4A<br>FE5A | FH4C    | FV4C    | FX4D  | FY5B  | PF4MA       | PF4MB | LABEL                     |
|------|------------------------------|-------|--------------|---------|---------|-------|-------|-------------|-------|---------------------------|
| 1    | KFCEH0401N03                 | 18,24 |              | 001     |         | 19,25 | 18,24 | 18,19,24,25 |       | 328613-101                |
| 1    | KFCEH0501N05                 | 18-60 | 002-006      | 001-002 | 002-006 | 19-61 | 18-60 | 18-61       | 19-61 | 328613-101                |
| 1    | KFCEH0801N08                 | 18-60 | 002-006      | 001-003 | 002-006 | 19-61 | 18-60 | 18-61       | 19-61 | 328613-101                |
| 1    | KFCEH0901N10                 | 18-60 | 002-006      | 001-004 | 002-006 | 19-61 | 18-60 | 18-61       | 19-61 | 328613-101                |
| 5    | KFCEH1601315                 | 42-60 | 002-006      | 001-004 | 002-006 | 43-61 | 18-60 | 18-61       | 19-61 | 328614-101                |
| 6    | KFCEH2001318                 | 42-60 | 003-006      | 001-004 | 002-006 | 43-61 | 42-60 | 42-61       | 37-61 | 328615-101                |
| 1    | KFCEH2401C05                 | 18-60 | 002-006      | 001-002 | 002-006 | 19-61 | 18-60 | 18-61       | 19-61 | 328613-101                |
| 1    | KFCEH2501C08                 | 18-60 | 002-006      | 001-003 | 002-006 | 19-61 | 18-60 | 18-61       | 19-61 | 328613-101                |
| 1    | KFCEH2601C10                 | 18-60 | 002-006      | 001-004 | 002-006 | 19-61 | 18-60 | 18-61       | 19-61 | 328613-101                |
| 2    | KFCEH2901N09                 | 36-60 | 002-006      | 003-004 | 002-006 | 37-61 | 36-60 | 36-60       | 31-61 | 328606-101                |
| 3    | KFCEH3001F15                 | 24-60 | 002-006      | 001-004 | 002-006 | 25-61 | 24-60 | 24-61       | 19-61 | 328605-101                |
| 3    | KFCEH3101C15                 | 24-60 | 002-006      | 001-004 | 002-006 | 25-61 | 24-60 | 24-61       | 19-61 | 328605-101                |
| 4    | KFCEH3201F20                 | 30-60 | 002-006      | 002-004 | 002-006 | 31-61 | 30-60 | 30-61       | 19-61 | 328604-101                |
| 4    | KFCEH3301C20                 | 30-60 | 002-006      | 002-004 | 002-006 | 31-61 | 30-60 | 30-61       | 19-61 | 328604-101                |
| 7,8  | KFCEH3401F24                 | 48,60 | 004-006      | 003-004 | 005-006 | 49-61 | 48-60 | 48-61       | 49-61 | 328602-101,<br>328603-101 |
| 7,8  | KFCEH3501F30                 | 48,60 | 004-006      | 003-004 | 005-006 | 49-61 | 48-60 | 48-61       | 49-61 | 328602-101,<br>328603-101 |

| FIG. | FIELD INSTALLED HEATER MODEL | FY5B  | LABEL      |
|------|------------------------------|-------|------------|
| 9    | MKFCEH0501N05                | 18,24 | 328205-101 |
| 9    | MKFCEH0801N08                | 18,30 | 328205-101 |
| 9    | MKFCEH0901N10                | 24-48 | 328205-101 |
| 10   | MKFCEH3001F15                | 36-60 | 328206-101 |

### FAN COIL WITH RBC X-13 MOTOR

| FIG. | FIELD INSTALLED HEATER MODEL | FB4C  | FX4D  | LABEL      |
|------|------------------------------|-------|-------|------------|
| 11   | MKFCEH0501N05                | 18,24 | 19,25 | 335975-101 |
| 11   | MKFCEH0801N08                | 18,30 | 31    | 335975-101 |
| 11   | MKFCEH0901N10                | 24-48 | 37-61 | 335975-101 |
| 12   | MKFCEH3001F15                | 36-60 | 61    | 336923-101 |

### FAN COIL WITH BROAD OCEAN DIGI–MOTOR

| FIG. | FIELD INSTALLED HEATER MODEL | FB4C  | FX4D  | LABEL      |
|------|------------------------------|-------|-------|------------|
| 13   | MKFCEH0501N05                | 24    | –     | 337518–101 |
| 13   | MKFCEH0801N08                | 18,30 | 31    | 337518–101 |
| 13   | MKFCEH0901N10                | 24–36 | 37–49 | 337518–101 |
| 14   | MKFCEH3001F15                | 36    | –     | 338001–101 |

### FAN COIL WITH COOLING ONLY CONTROL

| FIG. | MODEL           | SIZE                 | LABEL      |
|------|-----------------|----------------------|------------|
| 15   | FV4C            | 002–006              | 326014–101 |
| 16   | FE4A/FE5A       | 002–006              | 333107–101 |
| 17   | FY5B/PF4MNA     | 18–60                | 328964–101 |
| 17   | FH4C            | 001–004              | 328964–101 |
| 18   | FB4C/FX4D (RBC) | 18–61                | 336228–101 |
| 18   | PF4MNA/B        | 19,25,31,37,43,49,61 | 336228–101 |
| 19   | FB4C/FX4D (BOM) | 18–61                | 337519–101 |

### ELECTRIC HEATERS

| FIG. | HEATER MODEL  | FF1E        | LABEL      |
|------|---------------|-------------|------------|
| 20   | KFDEH0801D05  | 18,24,30,36 | 324494–101 |
| 20   | KFDEH0901D75  | 18,24,30,36 | 324494–101 |
| 20   | KFDEH1001D11  | 18,24,30,36 | 324494–101 |
| 20   | MKFDEH0801D05 | 18,24,30,36 | 324494–101 |
| 20   | MKFDEH0901D75 | 18,24,30,36 | 324494–101 |
| 20   | MKFDEH1001D11 | 18,24,30,36 | 324494–101 |
| 21   | KFEEH0101D05  | 19,25,31,37 | 335826–101 |
| 21   | KFEEH0201D75  | 19,25,31,37 | 335826–101 |
| 21   | KFEEH0301D11  | 19,25,31,37 | 335826–101 |

| FIG. | HEATER MODEL | FFMA        | LABEL |
|------|--------------|-------------|-------|
| 22   | EHK2–05B     | 18,24,30,36 | NA    |
| 22   | EHK2–08B     | 18,24,30,36 | NA    |
| 22   | EHK2–10B     | 18,24,30,36 | NA    |

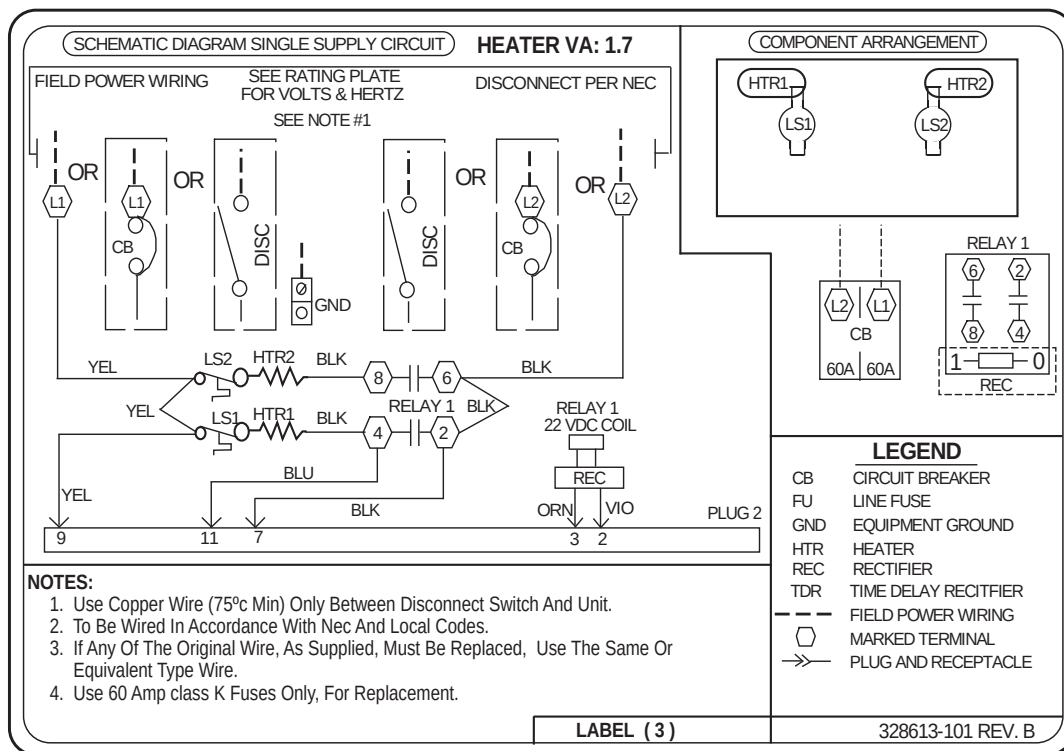


Fig. 1 - 328613-101

A07001

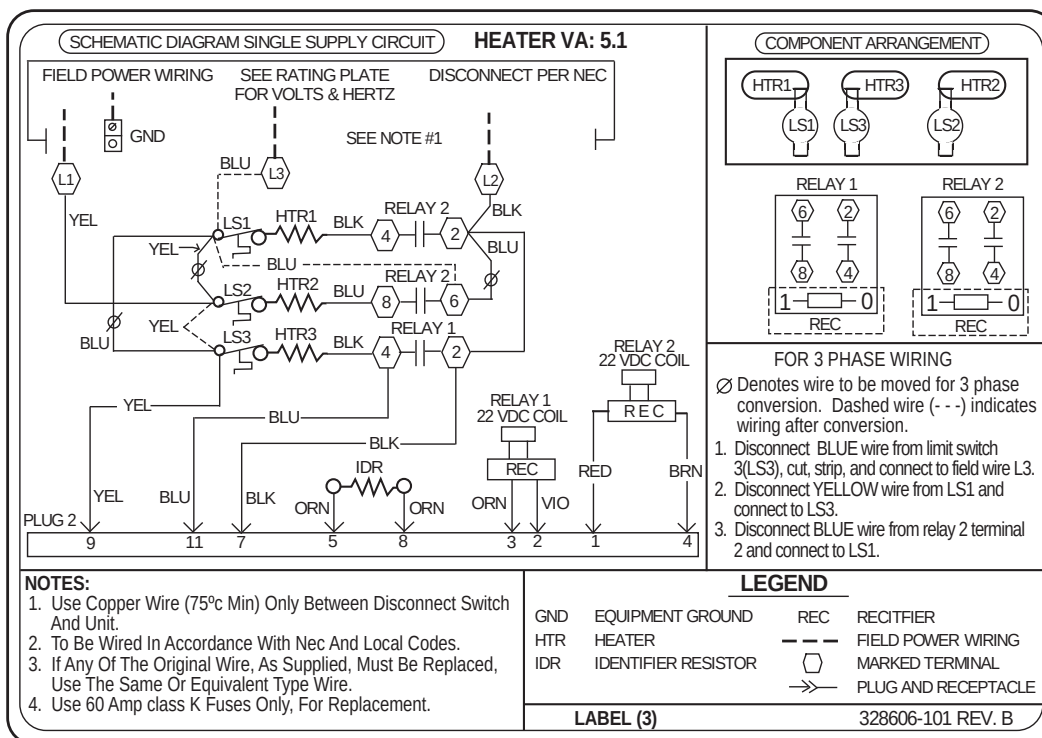


Fig. 2 - 328606-101

A07002

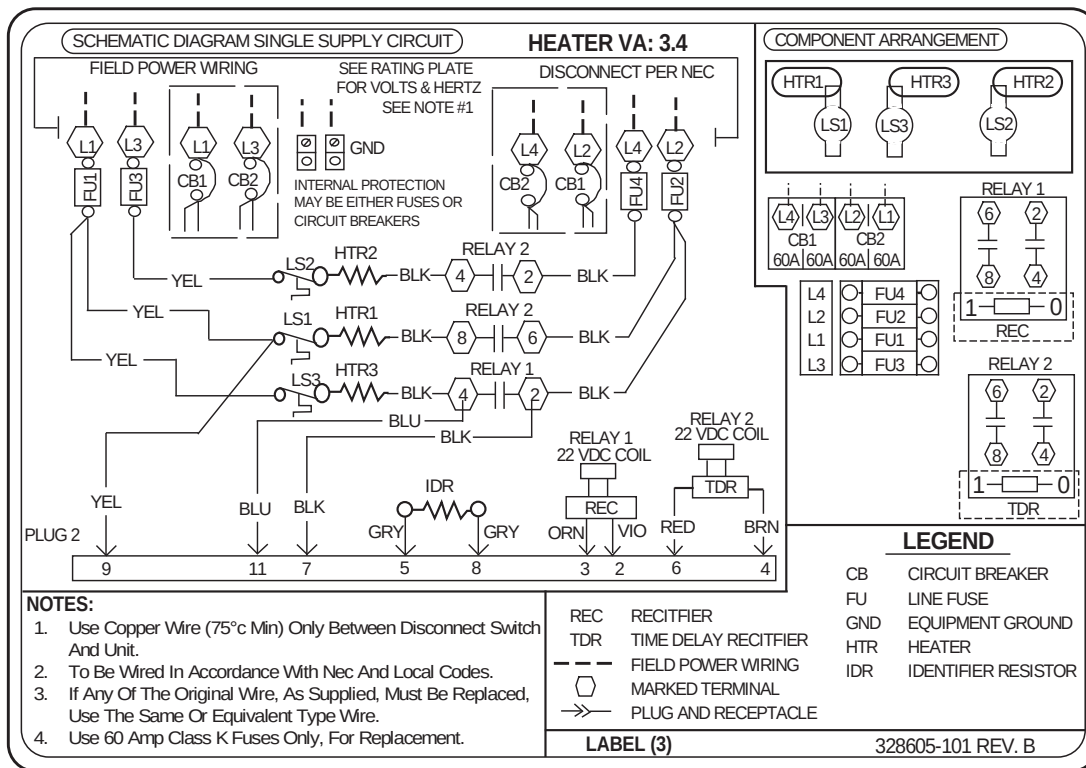


Fig. 3 - 328605-101

A07003

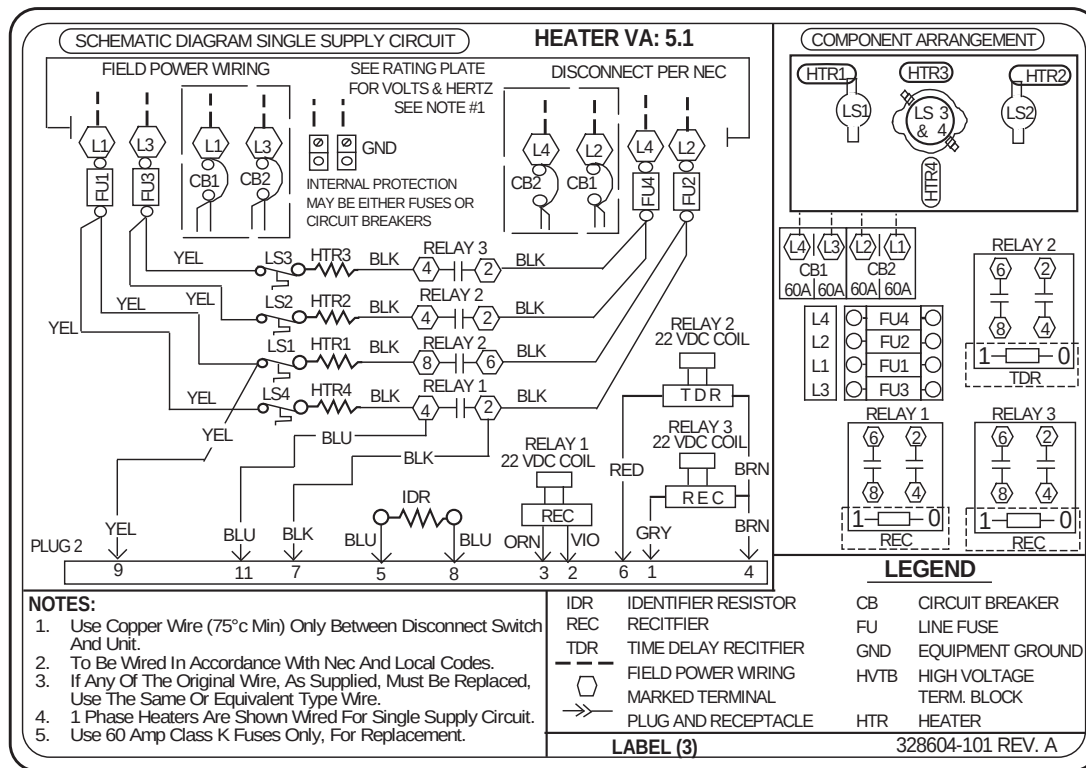


Fig. 4 - 328604-101

A07004

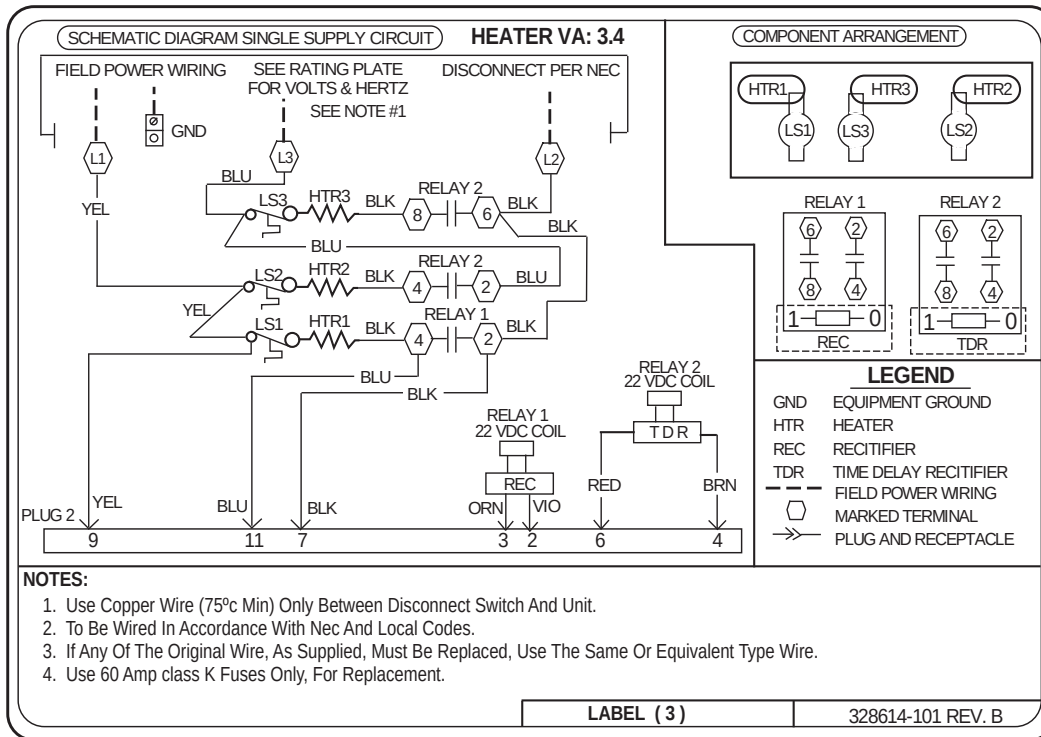


Fig. 5 - 328614-101

A07005

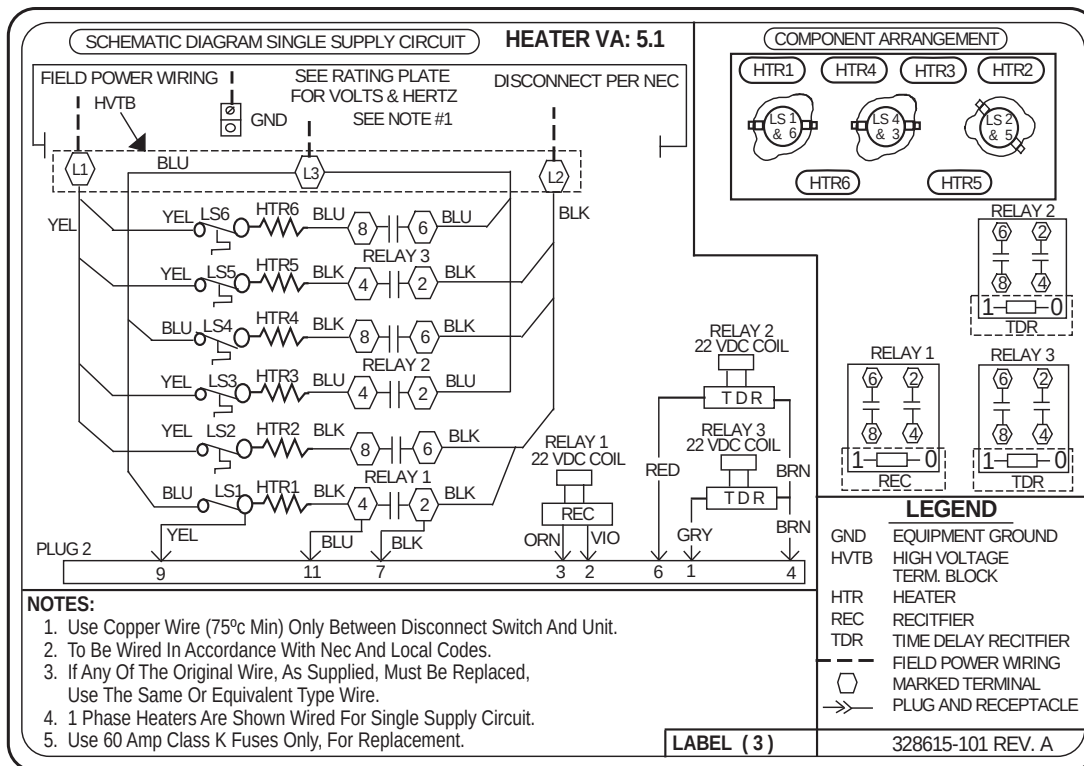


Fig. 6 - 328615-101

A07006

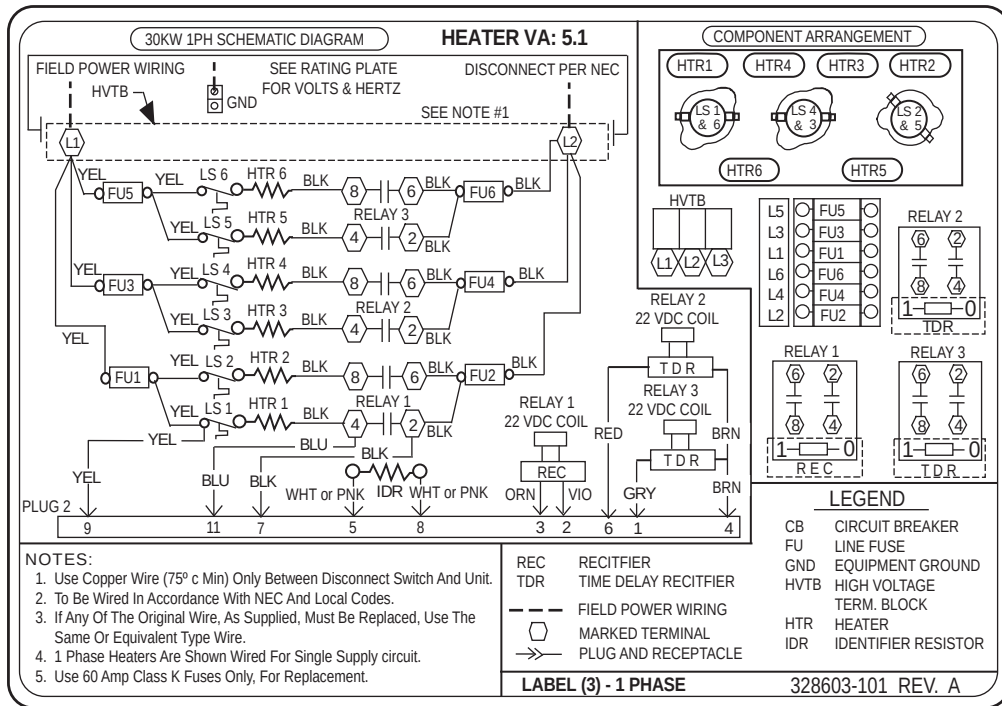


Fig. 7 - 328603-101

A07007

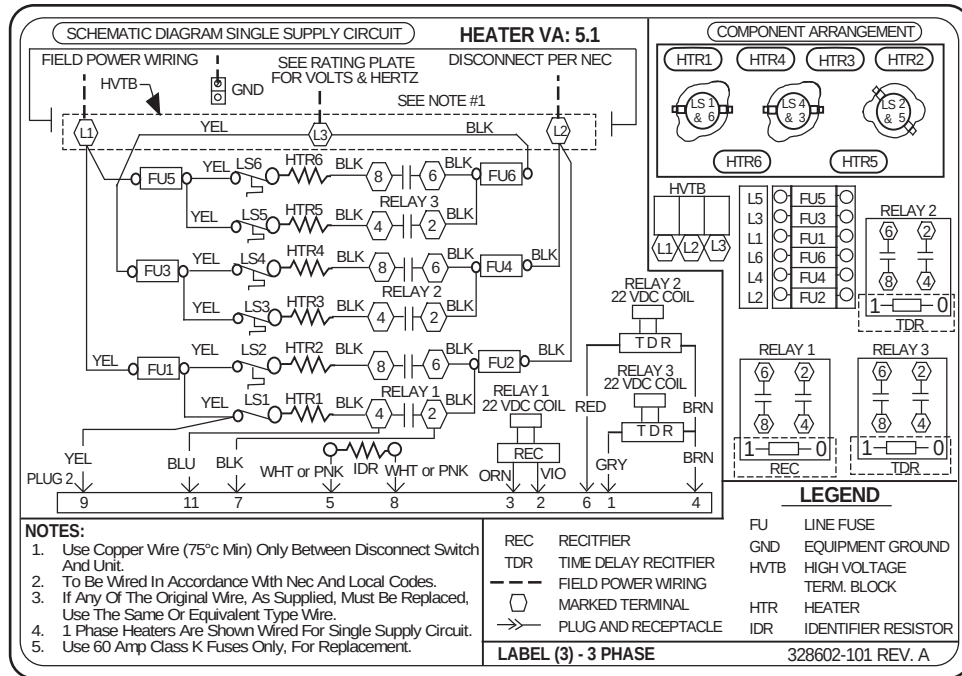
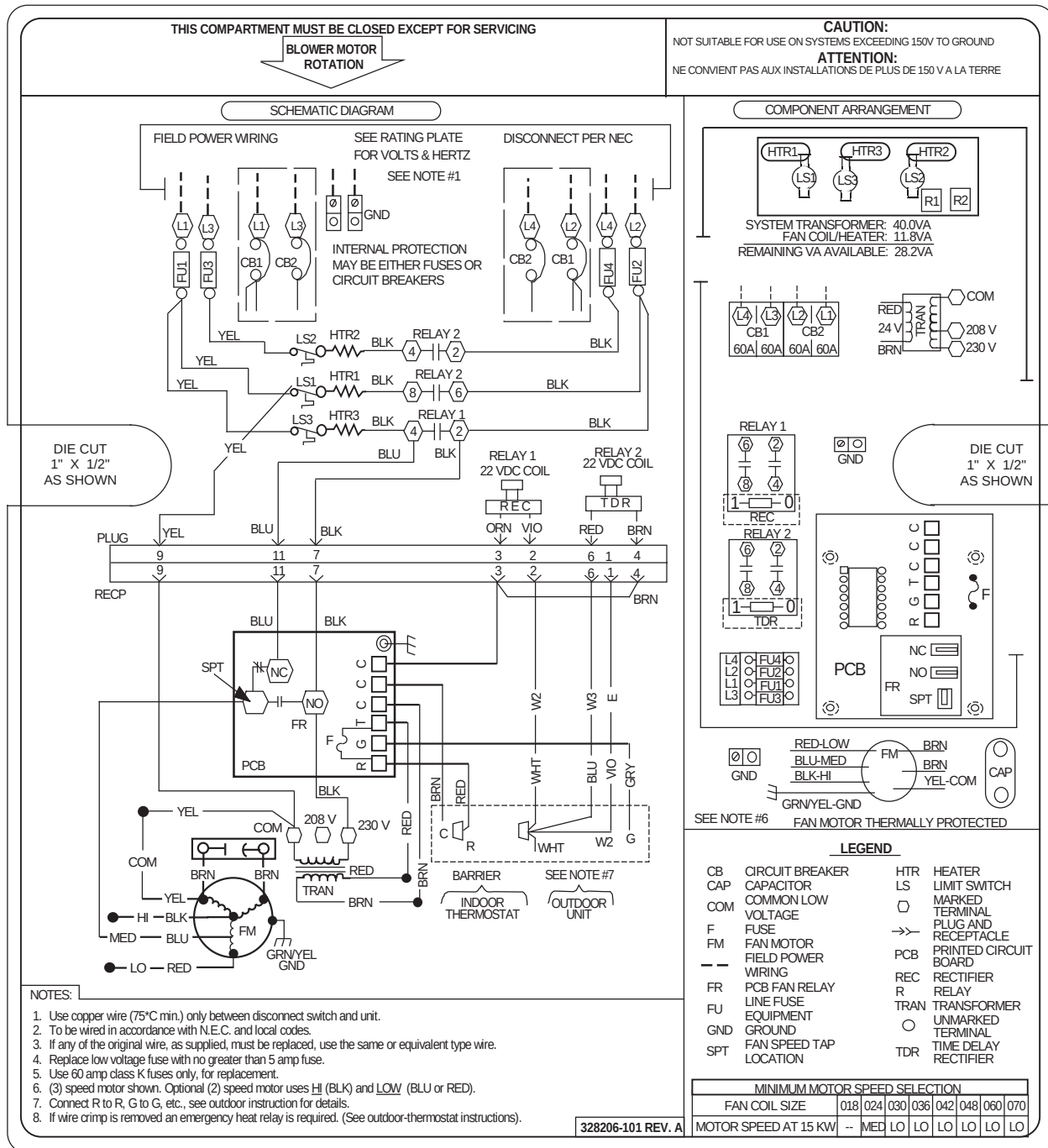


Fig. 8 - 328602-101

A07038





**Fig. 10 - 328206-101**

A07009

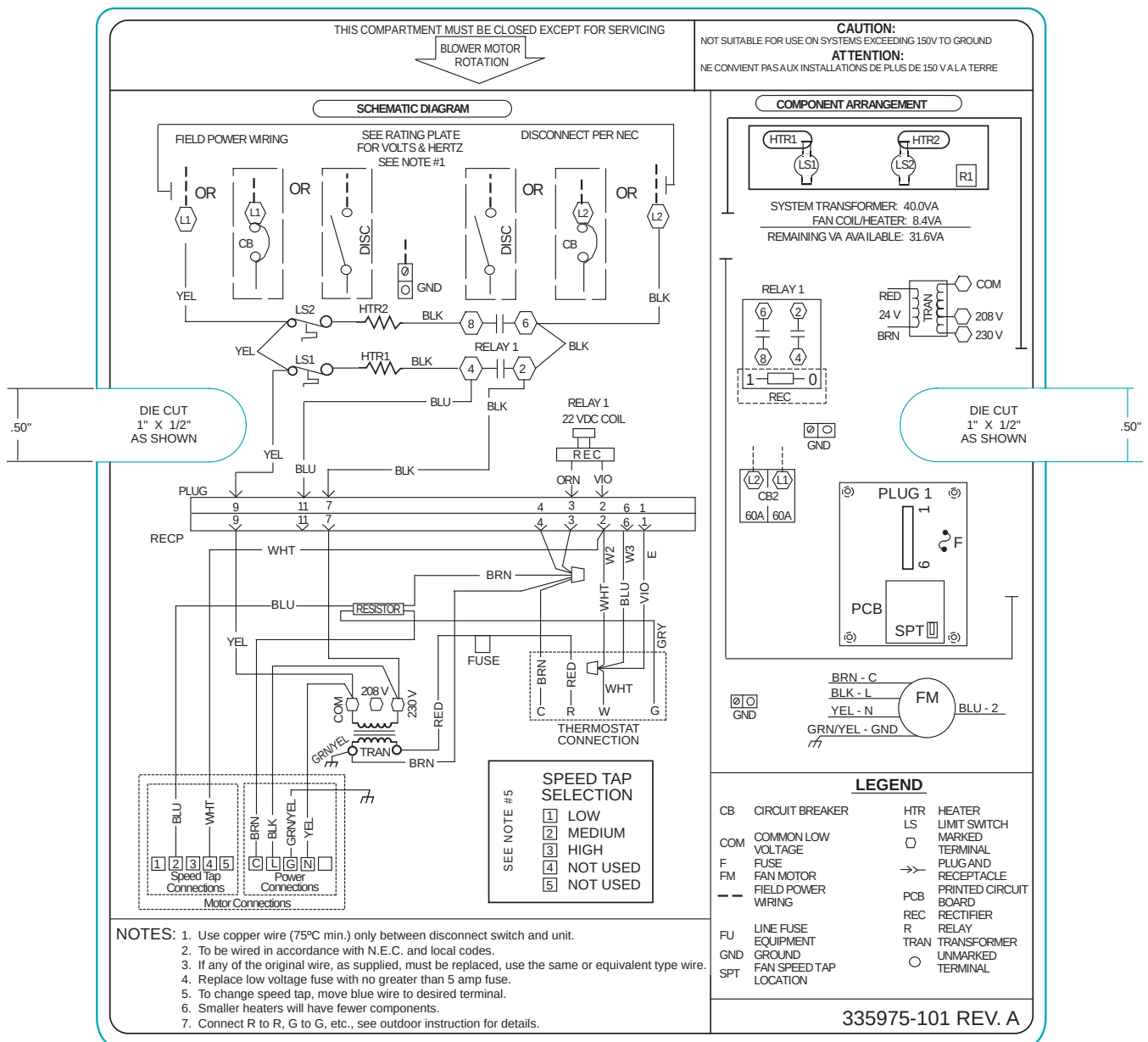


Fig. 11 - 335975-101

A12359



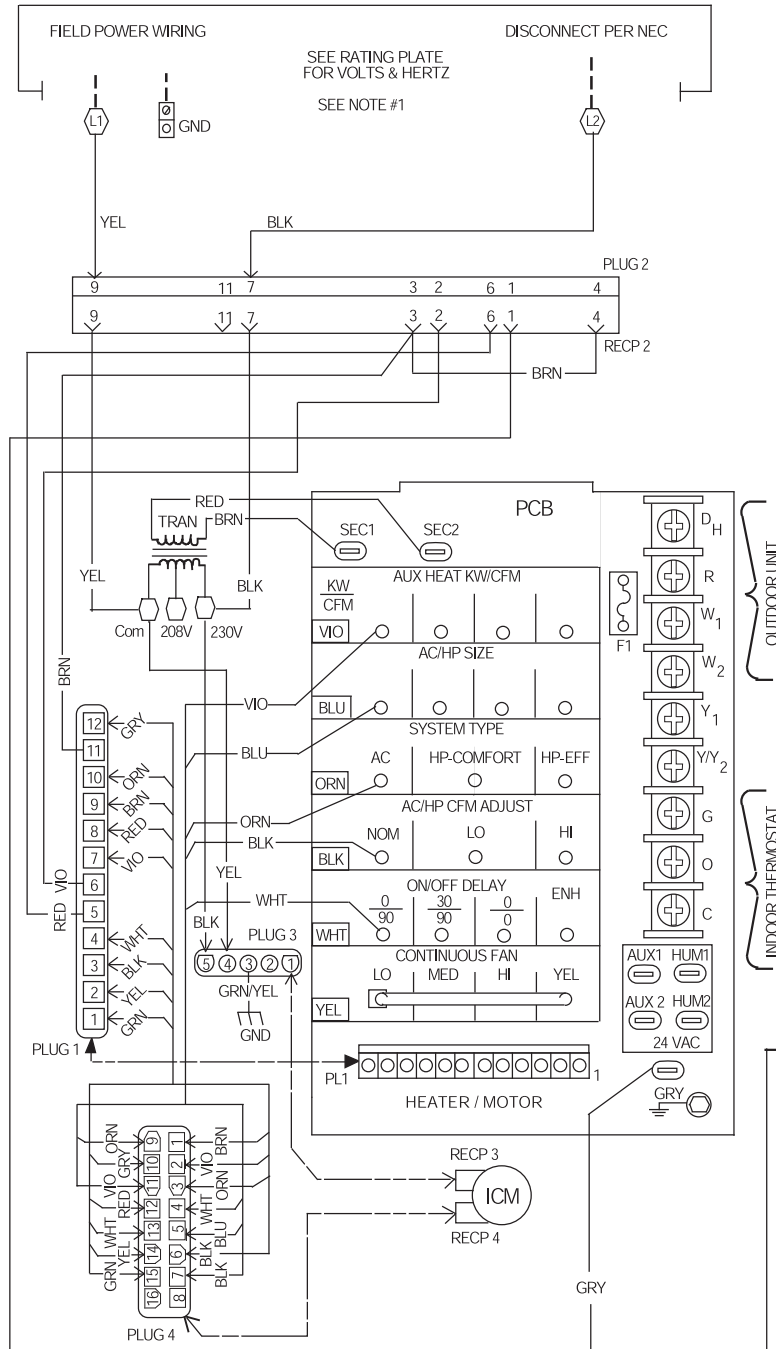




**THIS COMPARTMENT MUST BE  
CLOSED EXCEPT FOR SERVICING**

**BLOWER MOTOR  
ROTATION**

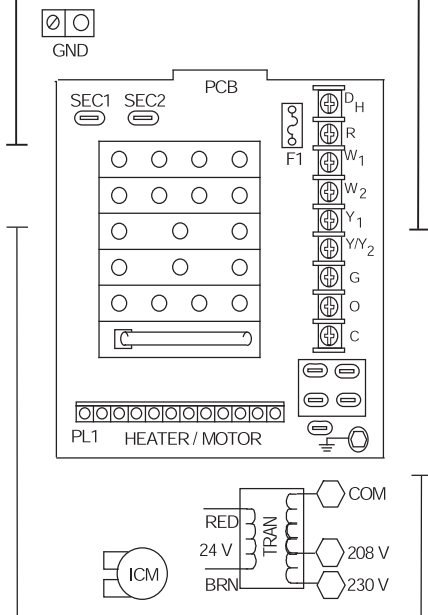
**COOLING ONLY SCHEMATIC DIAGRAM**



**LEGEND**

|      |                       |
|------|-----------------------|
| ---  | FIELD POWER WIRING    |
| ⬢    | MARKED TERMINAL       |
| ⌋⌋   | PLUG AND RECEPTACLE   |
| COM  | COMMON                |
| F1   | LOW VOLTAGE FUSE      |
| GND  | EQUIPMENT GROUND      |
| ICM  | FAN MOTOR             |
| PCB  | PRINTED CIRCUIT BOARD |
| RECP | RECEPTACLE            |
| TRAN | TRANSFORMER           |

**COMPONENT ARRANGEMENT**



**NOTES:**

1. USE COPPER WIRE (75°C MIN) ONLY BETWEEN DISCONNECT SWITCH AND UNIT.
2. TO BE WIRED IN ACCORDANCE WITH N.E.C. AND LOCAL CODES.
3. TRANSFORMER PRIMARY LEADS, BLUE 208V, RED 230V.
4. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED, MUST BE REPLACED, USE THE SAME OR EQUIVALENT TYPE WIRE.
5. REPLACE LOW VOLTAGE FUSE WITH NO GREATER THAN 5 AMP FUSE.
7. USE 60 AMP CLASS K FUSES ONLY, FOR REPLACEMENT.
8. CONNECT R TO R, G TO G, ETC., SEE OUTDOOR INSTRUCTION FOR DETAILS.

326014-101 REV. D

**Fig. 15 - 326014-101**

A07029

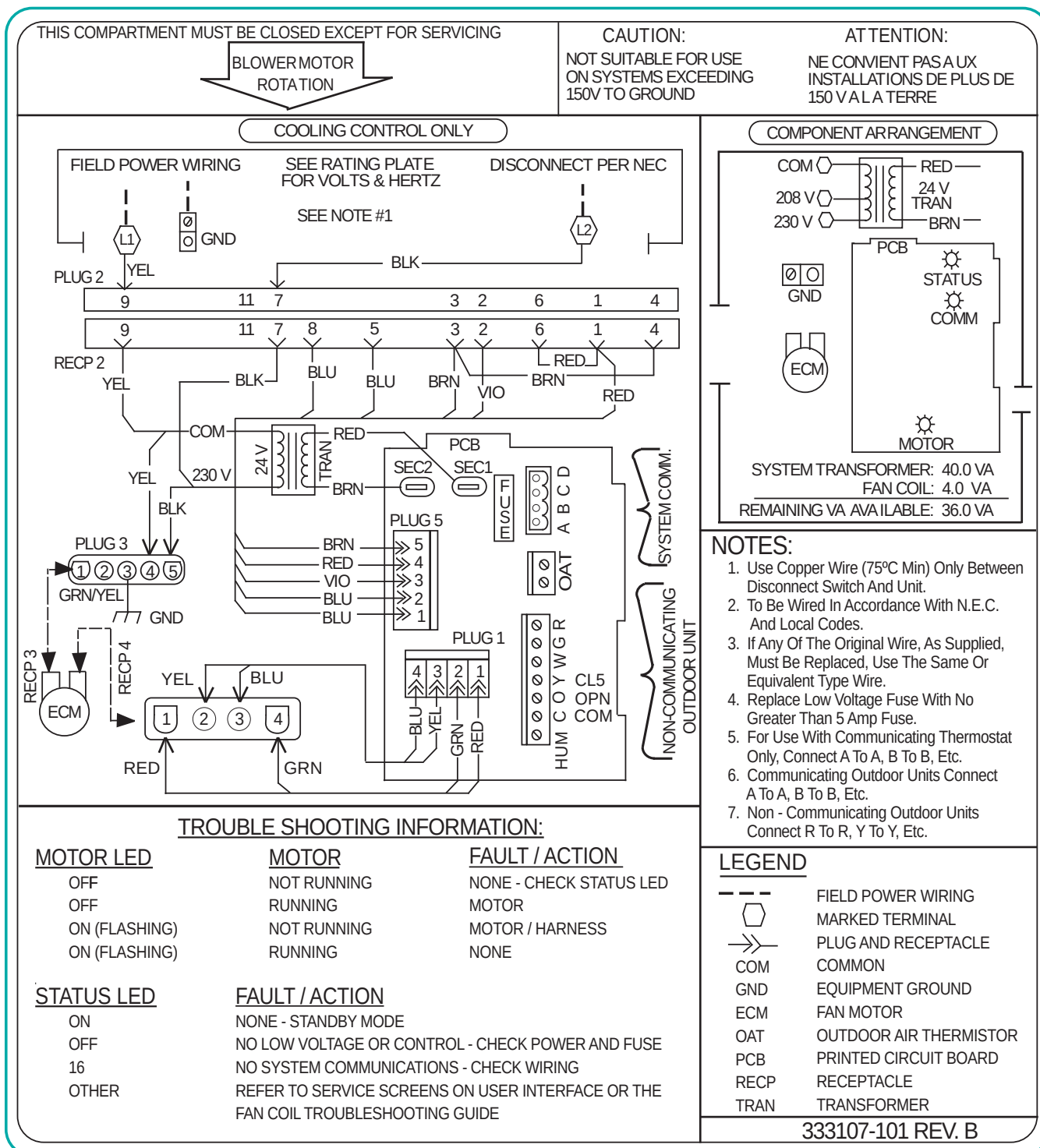
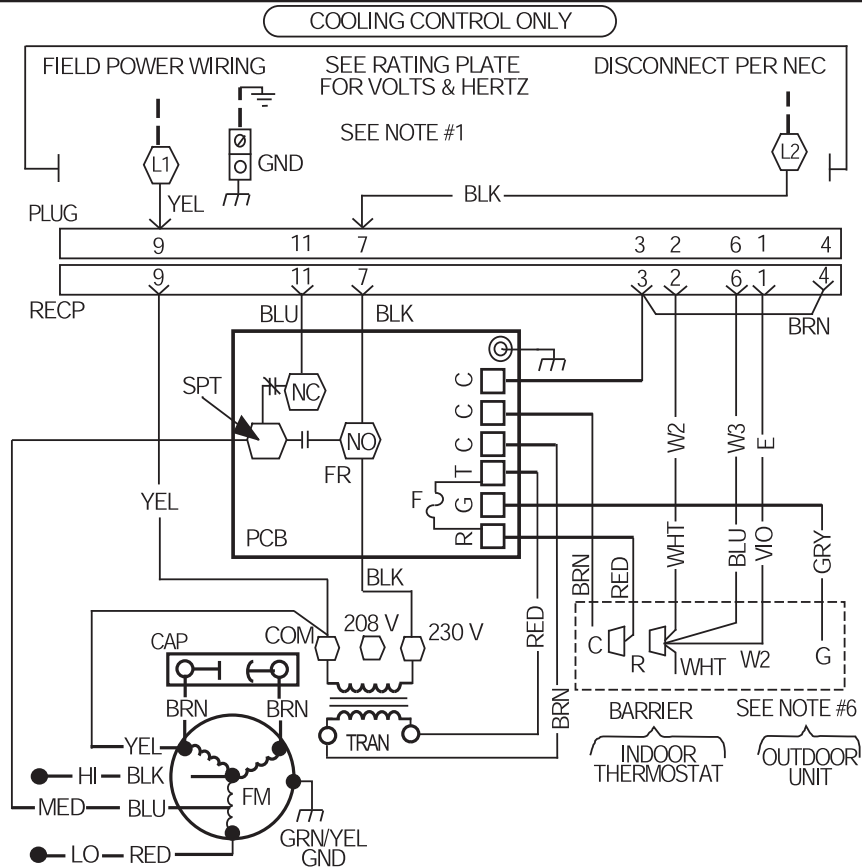


Fig. 16 - 333107-101

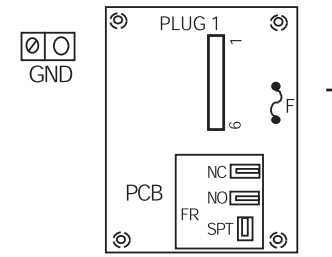
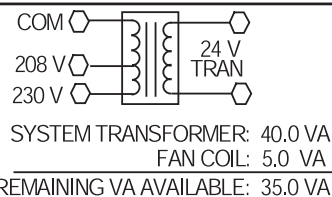
A12363

THIS COMPARTMENT MUST BE CLOSED EXCEPT FOR SERVICING

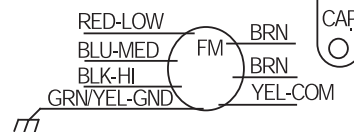
BLOWER MOTOR  
ROTATION



#### COMPONENT ARRANGEMENT



SEE NOTE #5



FAN MOTOR THERMALLY PROTECTED

#### LEGEND

|      |                        |
|------|------------------------|
| CAP  | CAPACITOR              |
| COM  | COMMON                 |
| F    | LOW VOLTAGE FUSE       |
| FR   | PCB FAN RELAY          |
| FM   | FAN MOTOR              |
| GND  | EQUIPMENT GROUND       |
| PCB  | PRINTED CIRCUIT BOARD  |
| RECP | RECEPTACLE             |
| SPT  | FAN SPEED TAP LOCATION |
| TRAN | TRANSFORMER            |

|     |                     |
|-----|---------------------|
| ○   | UNMARKED TERMINAL   |
| --- | FIELD POWER WIRING  |
| ◻   | MARKED TERMINAL     |
| →→  | PLUG AND RECEPTACLE |

328964-101 REV. A

#### Minimum Motor Speed Tap Selection For Electric Heater

| MODEL<br>SIZE     | HEATER SIZE KW |      |       |       |      |       |        |
|-------------------|----------------|------|-------|-------|------|-------|--------|
|                   | 3,5,8          | 9    | 10    | 15    | 18   | 20    | 24, 30 |
| 18                | MED *          | ---- | HI    | ----  | ---- | ----  | ----   |
| 24                | MED ‡          | ---- | MED ‡ | MED ‡ | ---- | ---   | ----   |
| 30                | ----           | ---- | LO    | LO    | ---- | MED * | ----   |
| 36, 42,<br>48, 60 | ----           | LO   | LO    | LO    | LO   | LO    | LO     |
| 70                | ----           | MED  | MED   | MED   | MED  | MED   | MED    |

\* - MED speed on 3 speed motors  
and HI speed on 2 speed motors.  
‡ - MED speed on 3 speed motors  
and LO speed on 2 speed motors.

#### 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. Replace Low Voltage Fuse With No Greater Than 5 Amp Fuse.
5. (3) Speed Motor Shown Optional (2) Speed Motor Uses HI (BLK) And LOW (BLUE or RED).
6. Connect R To R, G To G, Etc. See Outdoor Instruction For Details.

Fig. 17 - 328964-101

A07027

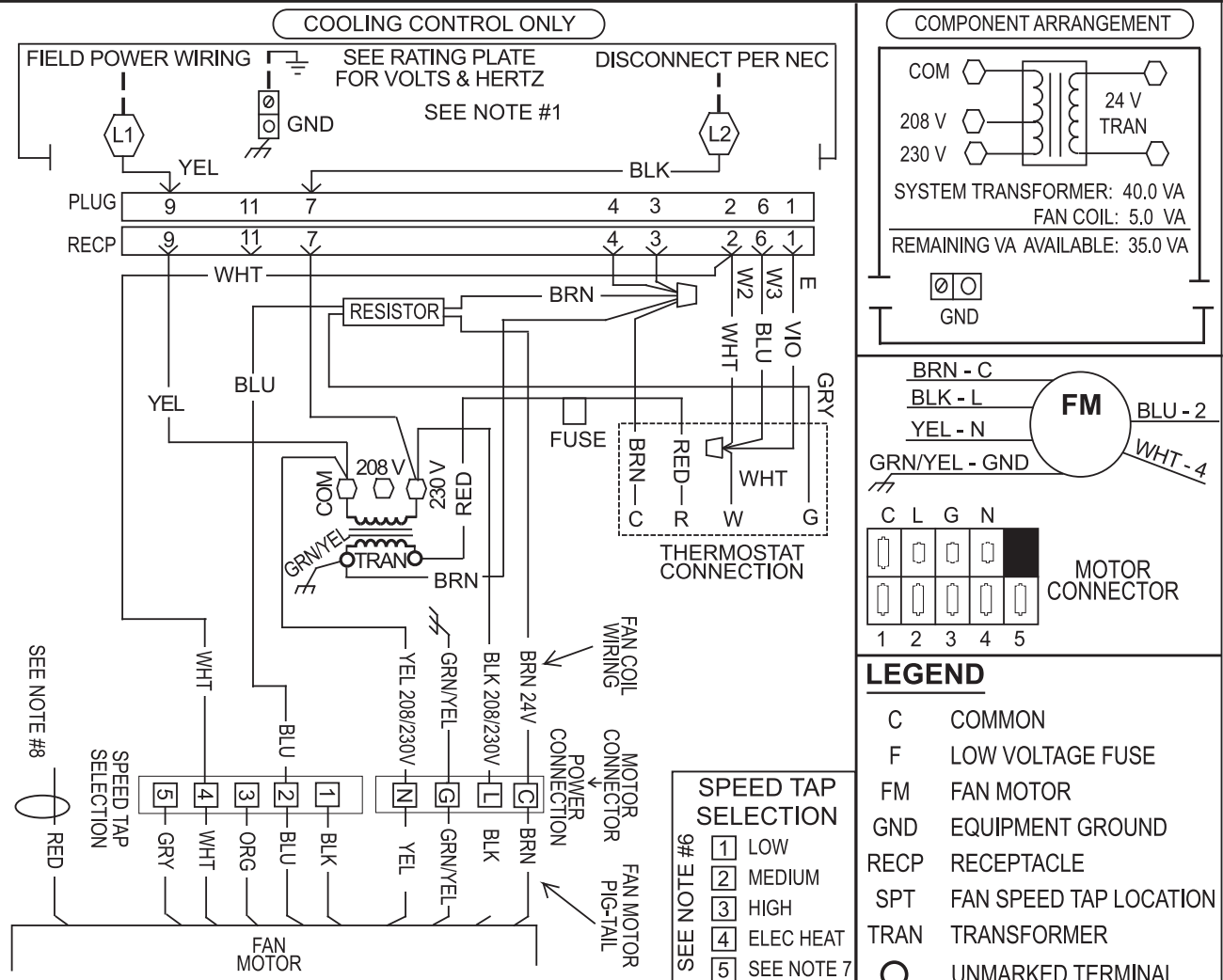
## BLOWER MOTOR ROTATION



A12364

THIS COMPARTMENT MUST BE CLOSED EXCEPT FOR SERVICING

BLOWER MOTOR  
ROTATION



## 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. Replace Low Voltage Fuse With No Greater Than 5 Amp Fuse.
5. Connect R To R, G To G, Etc. See Outdoor Instruction For Details.
6. To Change Speed Tap, Move Blue Wire To Desired Terminal.
7. See Airflow Tables For Tap Usage.
8. Factory wires may be present. DO NOT USE

337519-101 REV. B



Fig. 19 - 337519-101

A12365



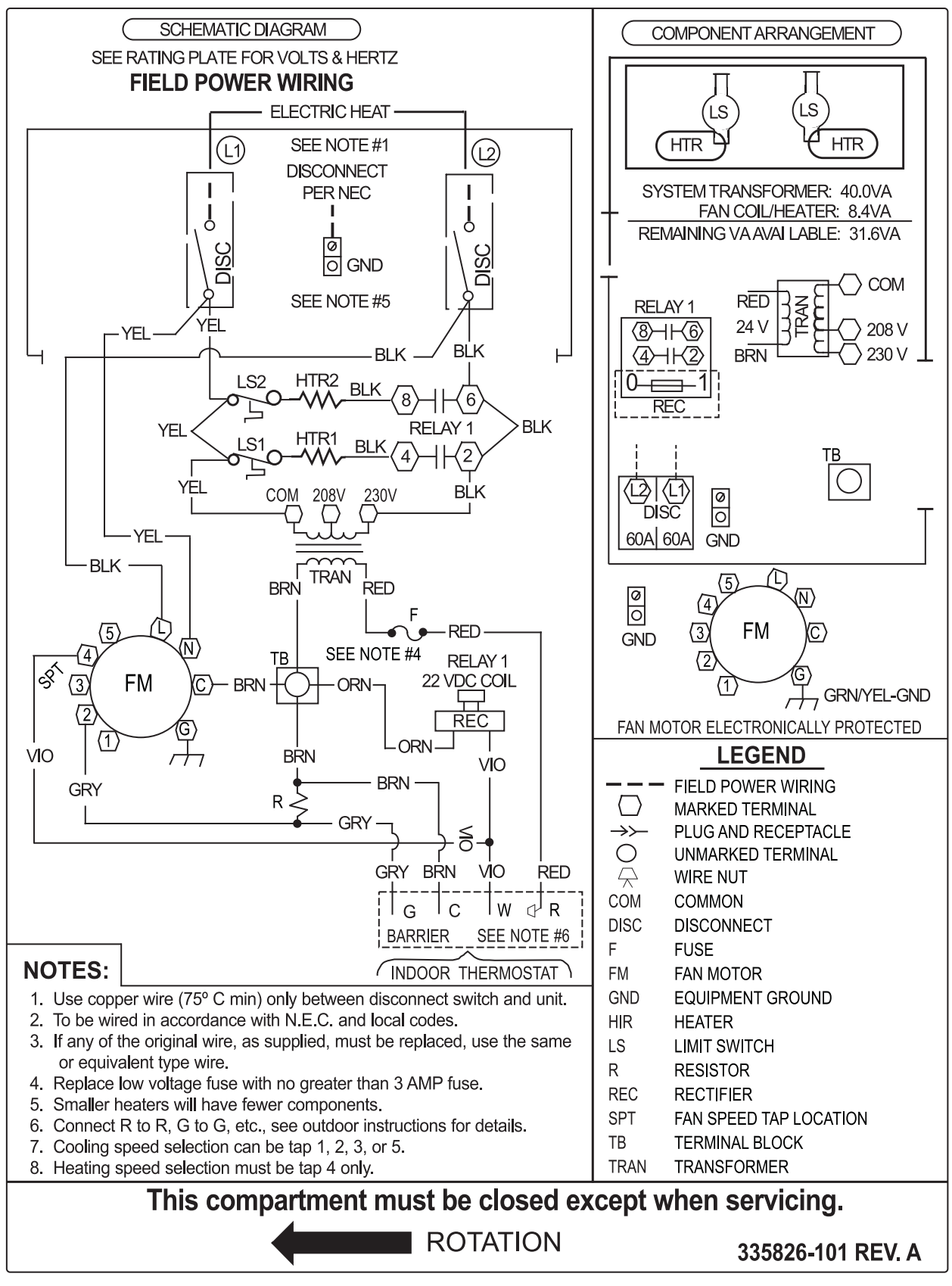
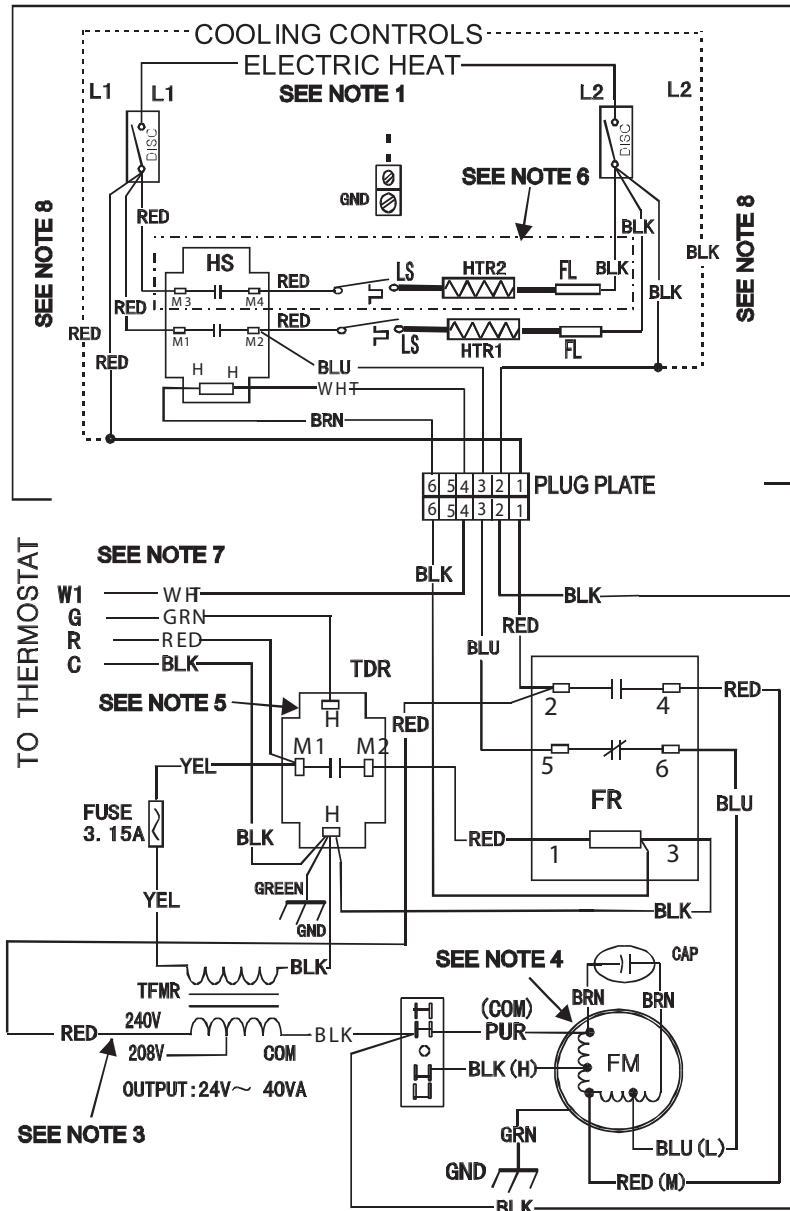


Fig. 21 - 335826-101

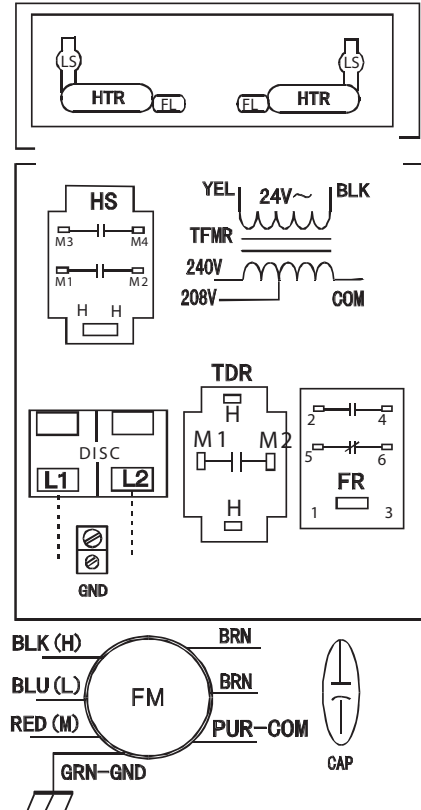
A09212

**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 A LA TERRE



**COMPONENT ARRANGEMENT**



DISC DISCONNECT  
FR FAN RELAY  
HS HEAT SEQUENCER  
LS LIMIT SWITCH  
TDR TIME DELAY RELAY  
TFMR TRANSFORMER  
FL FUSE LINK  
FM FAN MOTOR  
CAP FAN CAPACITOR  
GND GROUND  
... FIELD POWER WIRING

**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.

202070290385

Fig. 22 - EHK2 Electric Heaters

A13131