

FAN COILS ACCESSORY ELECTRIC HEATERS

WIRING DIAGRAMS

FIG.	FIELD INSTALLED HEATER MODEL	FB4C	FE4A 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, 328603-101
7,8	KFCEH3501F30	48,60	004-006	003-004	005-006	49-61	48-60	48-61	49-61	328602-101, 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	CONTROL TYPE	FFMA	LABEL
22	EHK2-05B	Sequencer - HS	18,24,30,36	202070290385
22	EHK2-08B	Sequencer - HS	18,24,30,36	202070290385
22	EHK2-10B	Sequencer - HS	18,24,30,36	202070290385
23	EHK2-05B	Relay - HR	18-37	NA
23	EHK2-08B	Relay - HR	18-37	NA
23	EHK2-10B	Relay - HR	18-37	NA
FIG.	FFMA			LABEL
24	19,31			202070490348
25	25,37			202070290400
FIG.	FPM(A,B)N(C,U)			LABEL
26	ALL			202070290388
FIG.	Heater Model	FPMAN(C,U)	FPMBN(C,U)	LABEL
27	EHK3-05B	18-36	18-30	06-7094-01
27	EHK3-08B	18-36	18-30	06-7094-01
27	EHK3-10B	18-36	18-30	06-7094-01

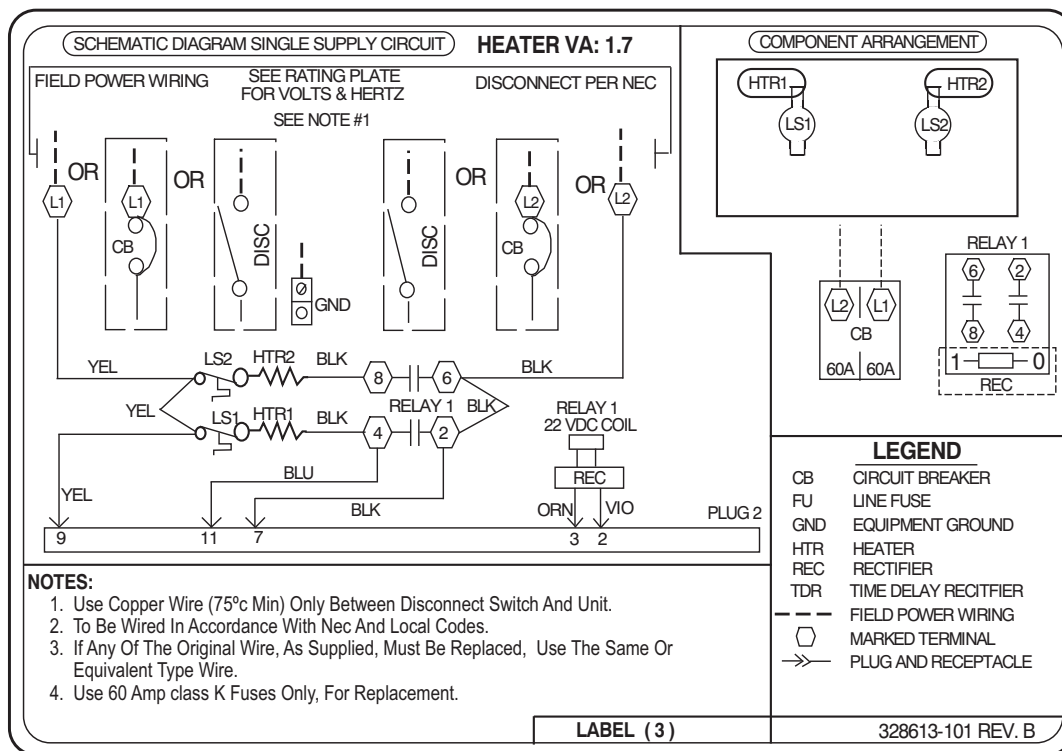


Fig. 1 - 328613-101

A07001

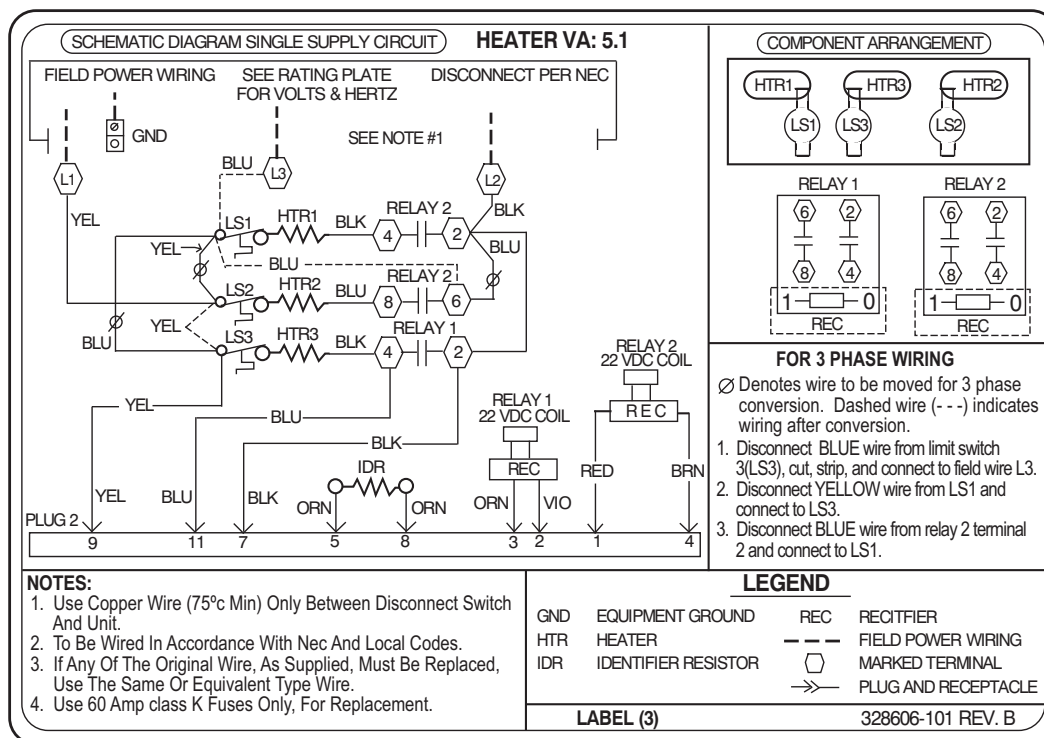


Fig. 2 - 328606-101

A07002

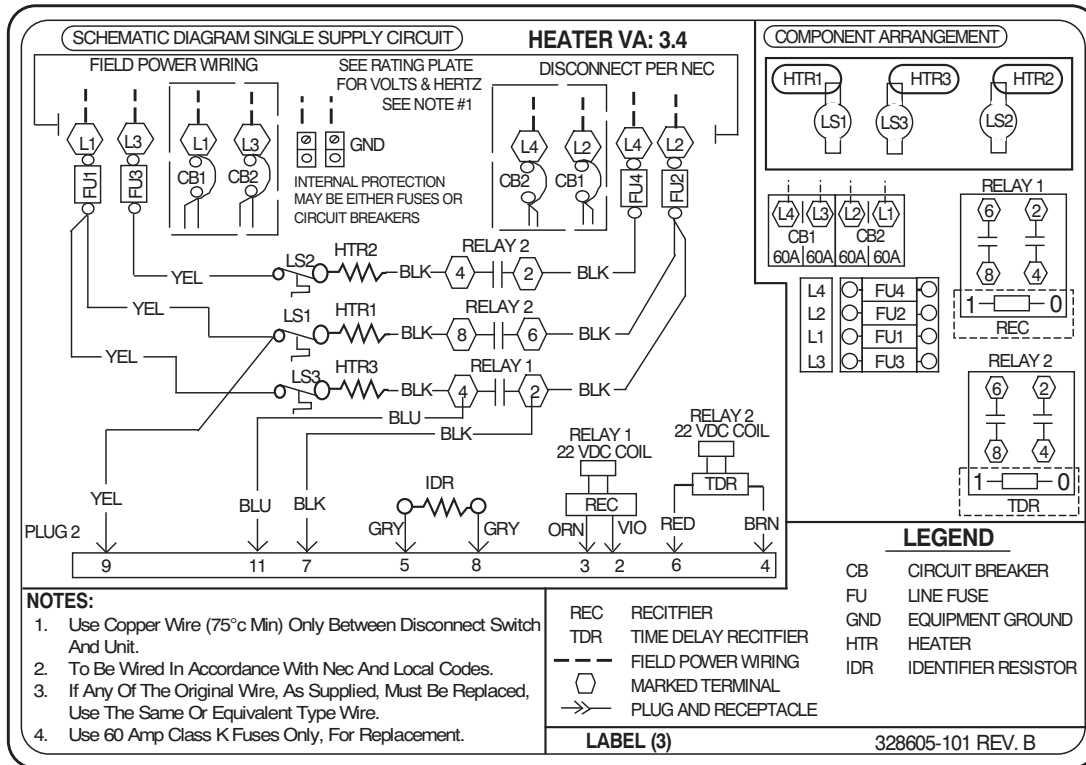


Fig. 3 - 328605-101

A07003

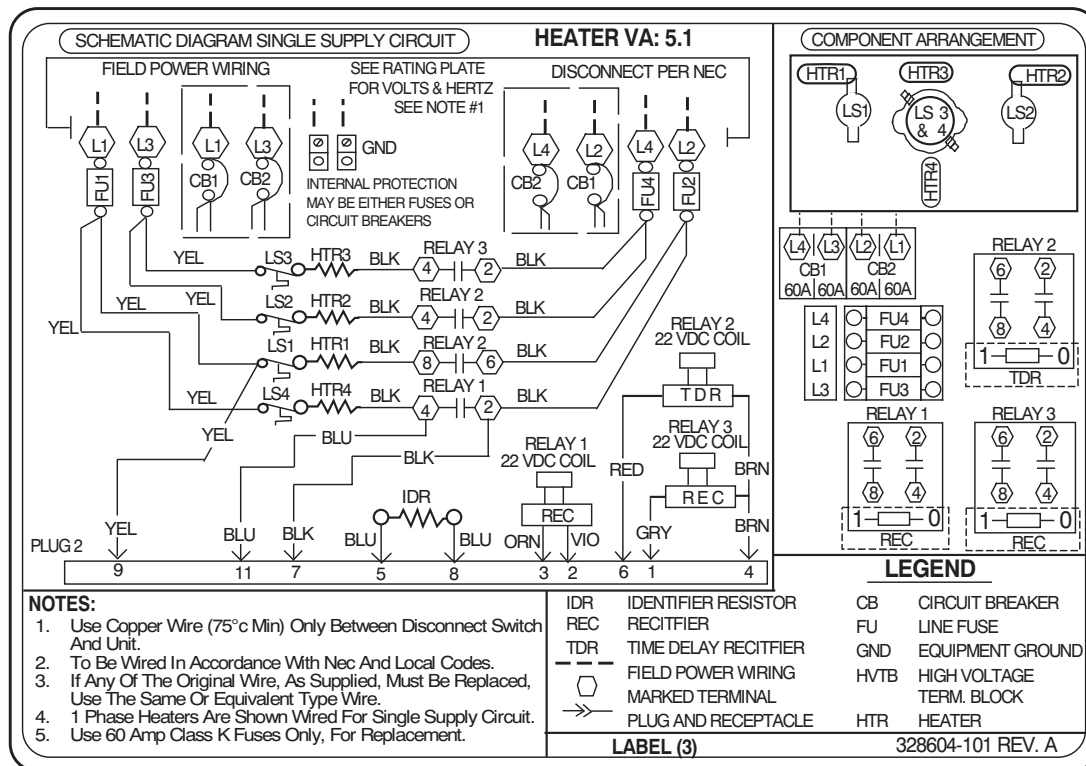


Fig. 4 - 328604-101

A07004

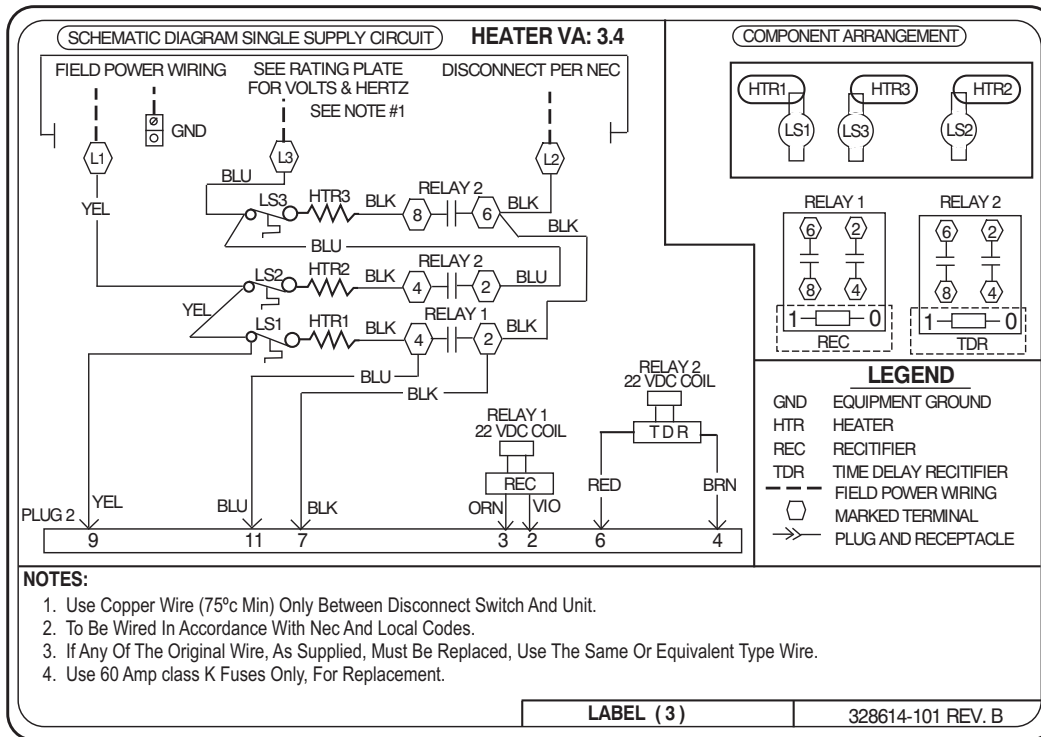


Fig. 5 - 328614-101

A07005

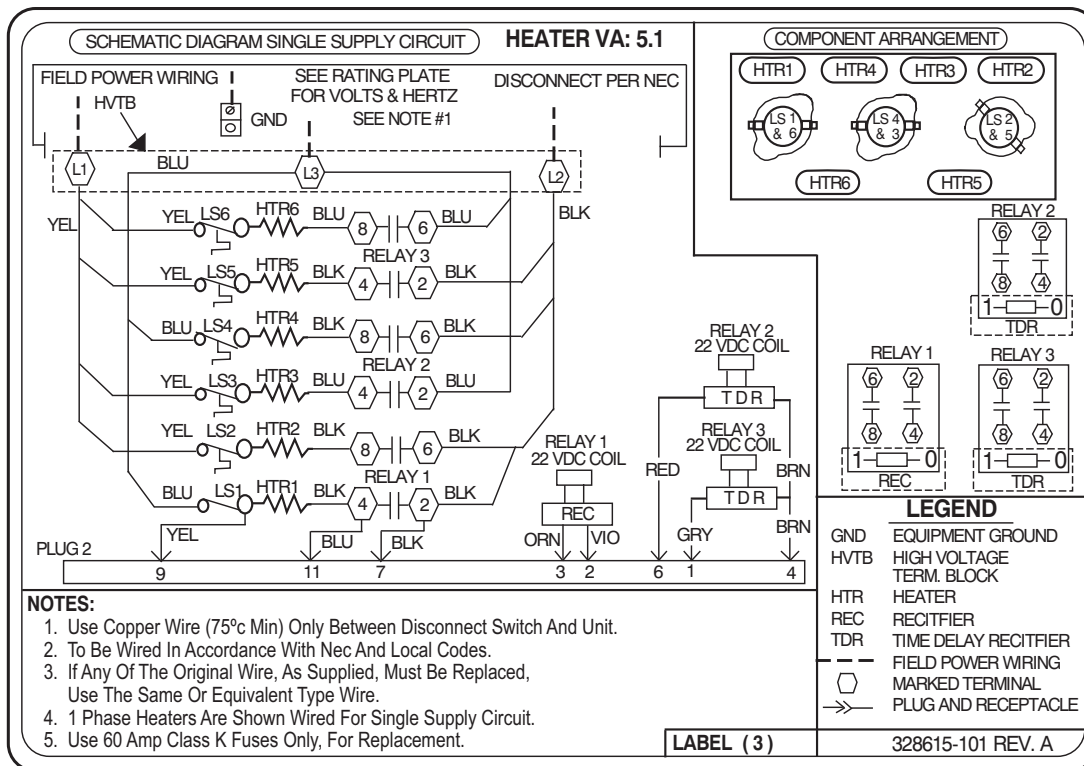


Fig. 6 - 328615-101

A07006

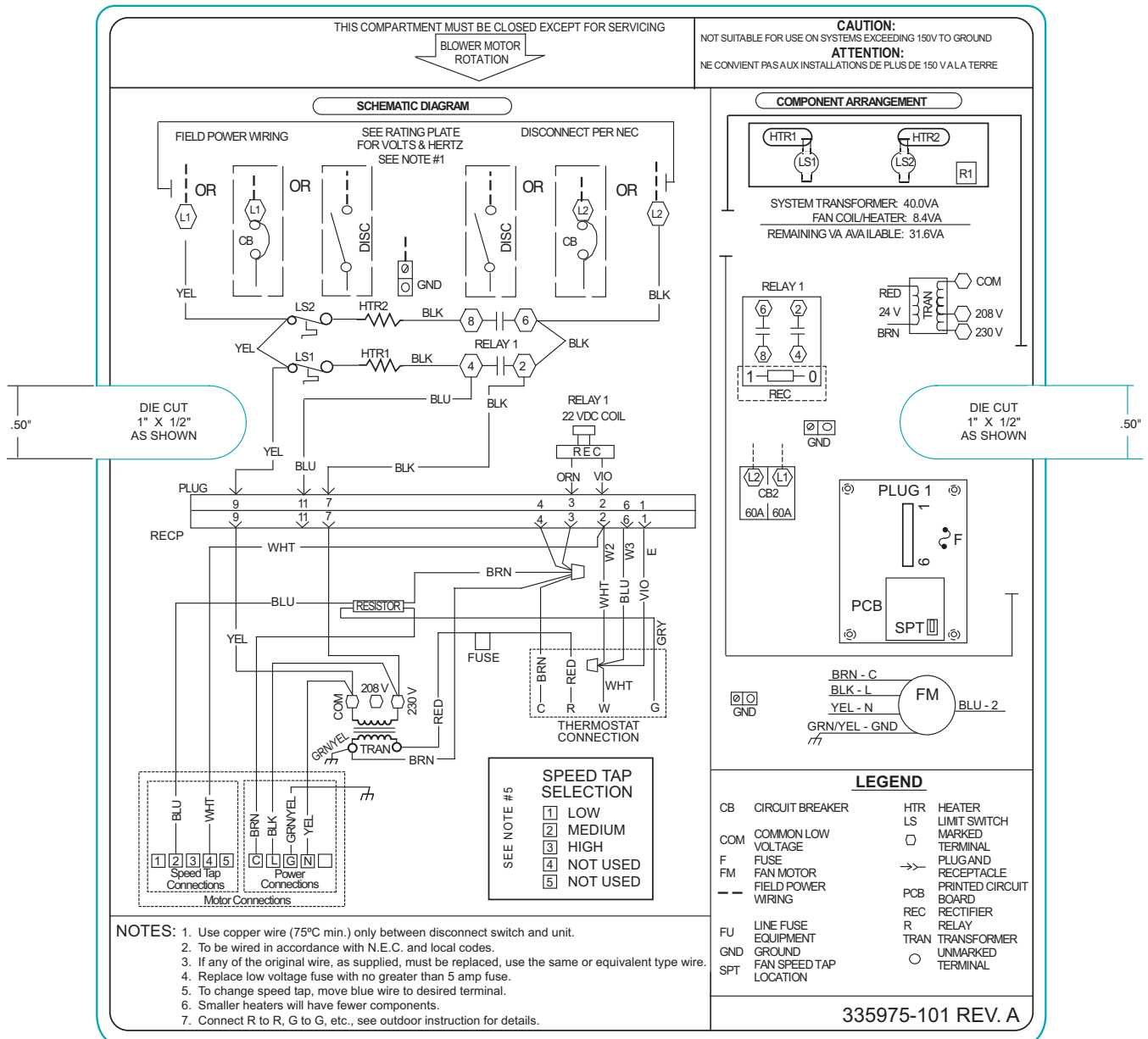
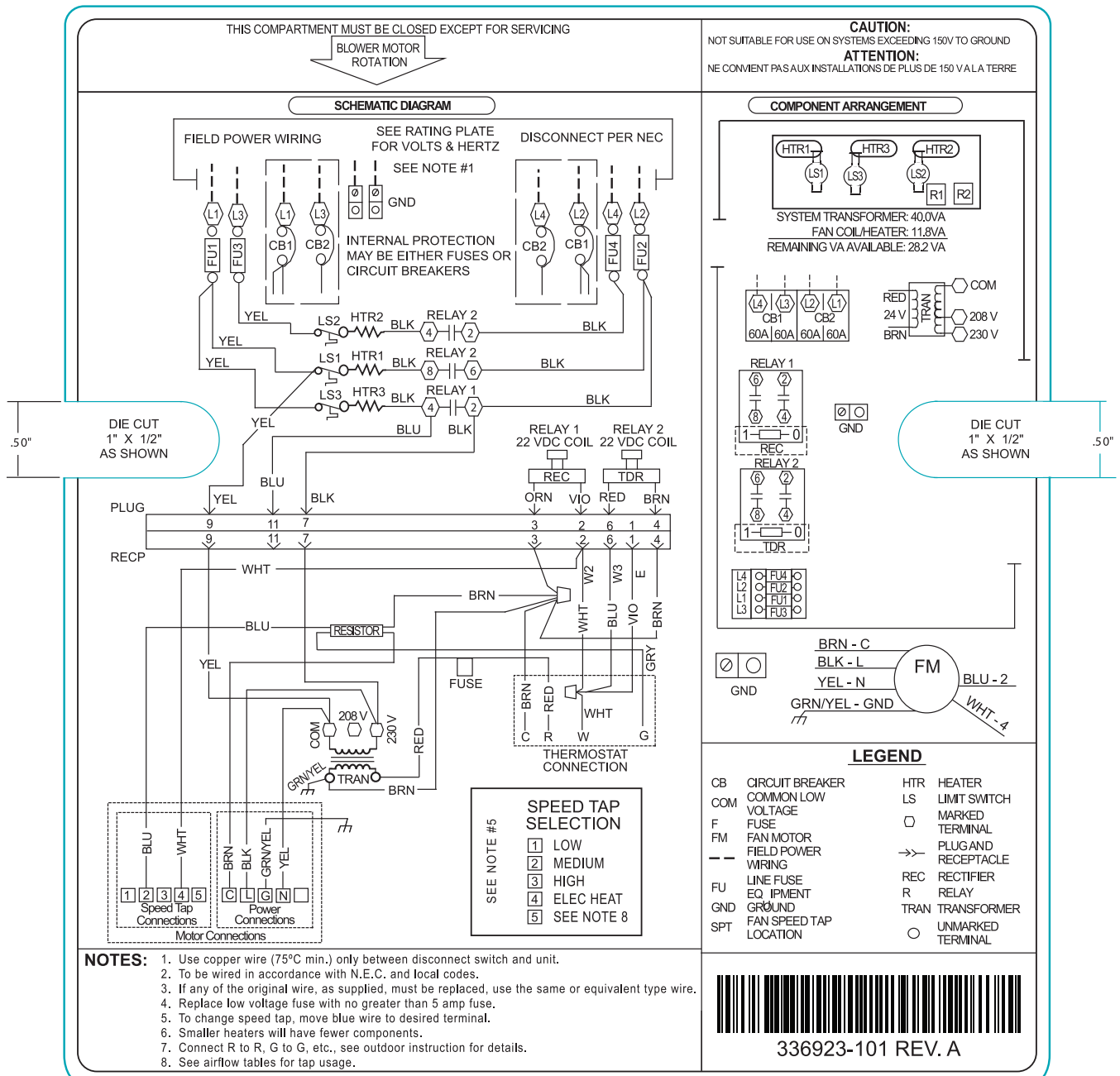


Fig. 11 - 335975-101

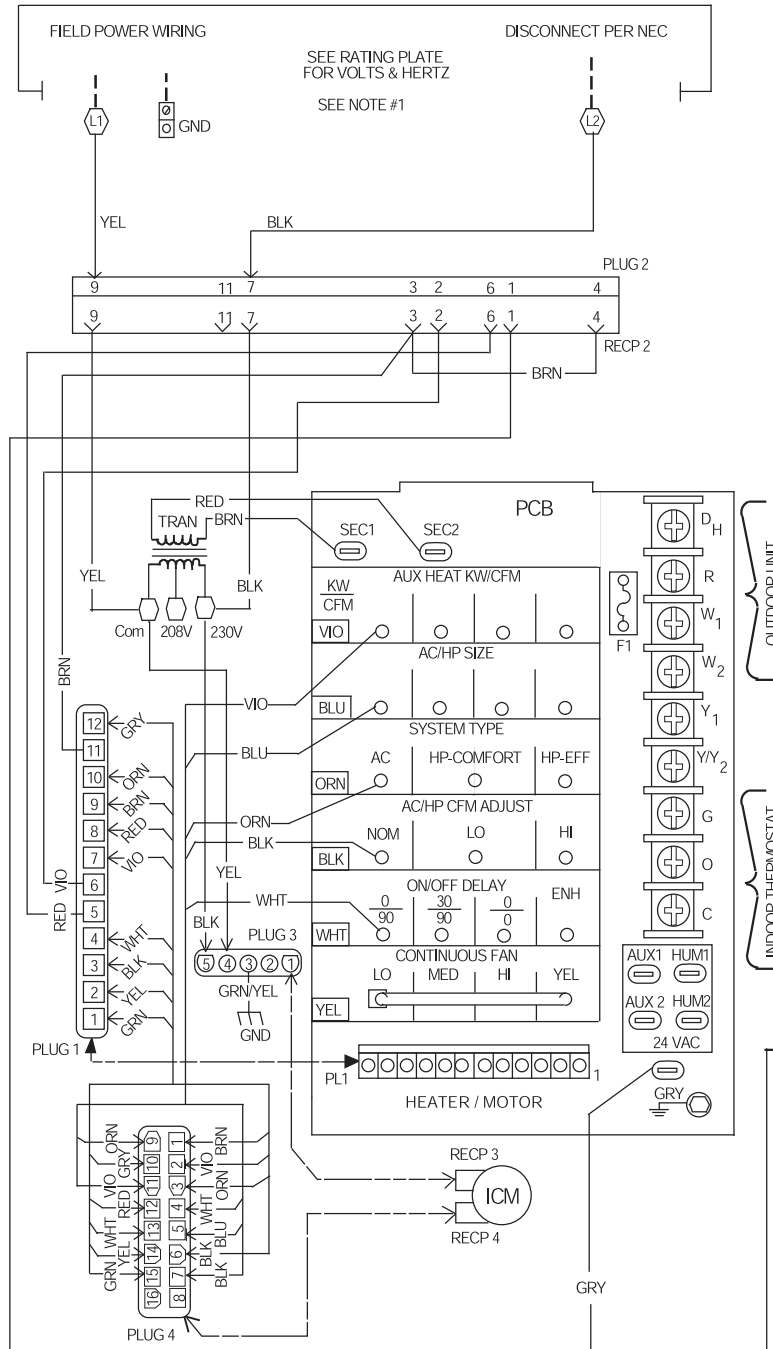
A12359



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

**BLOWER MOTOR
ROTATION**

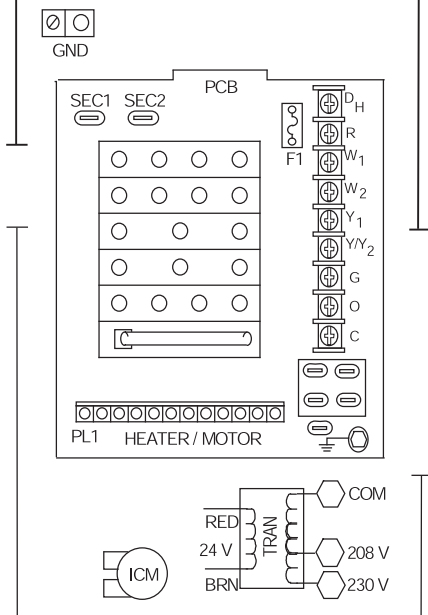
COOLING ONLY SCHEMATIC DIAGRAM



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

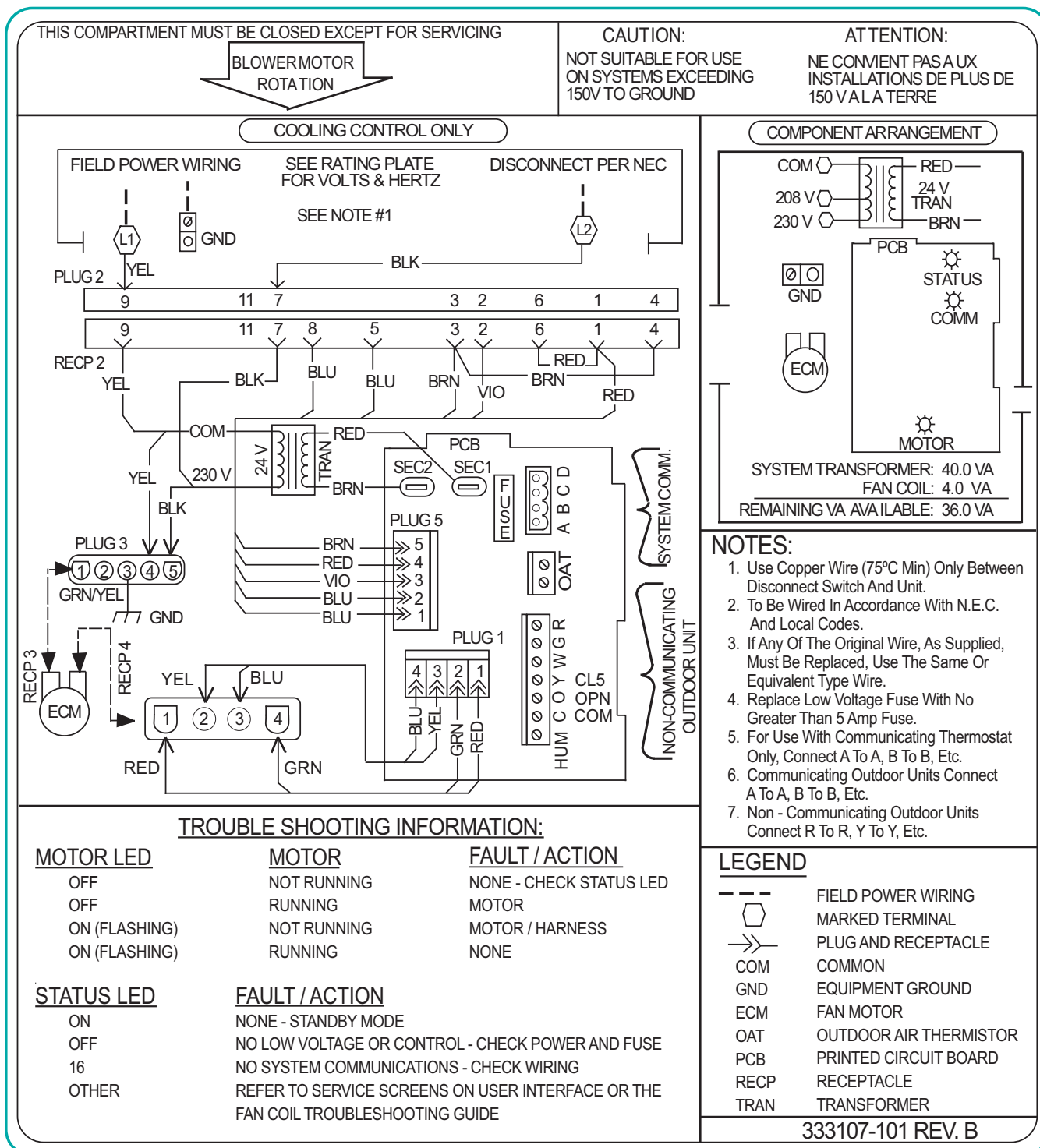
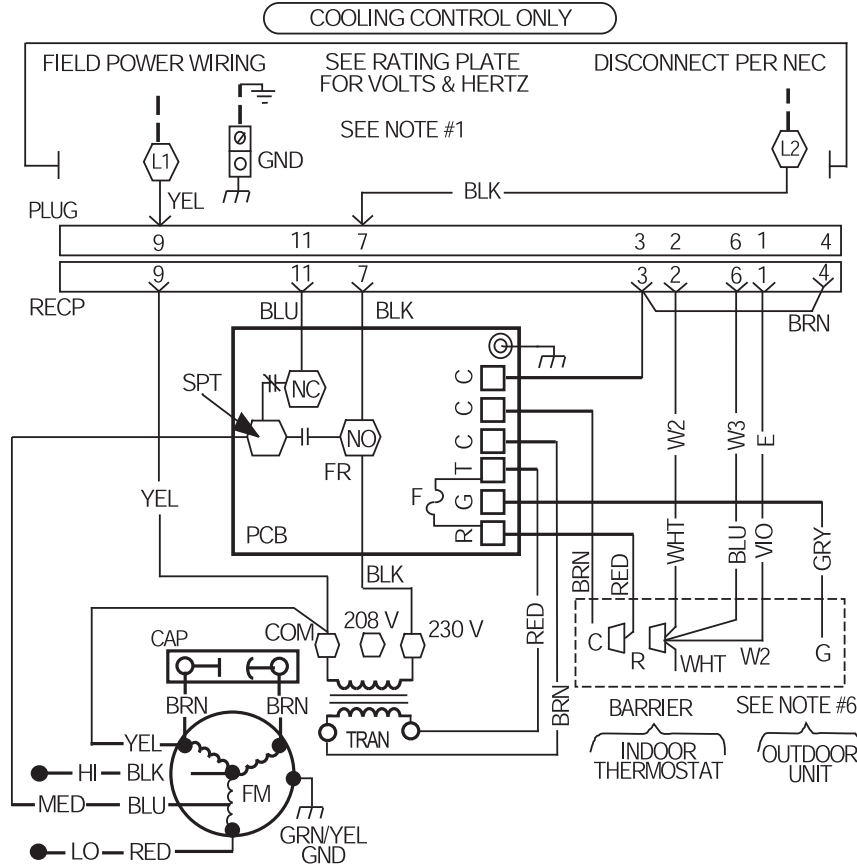


Fig. 16 - 333107-101

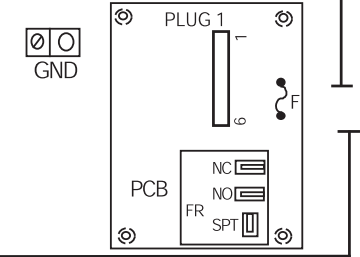
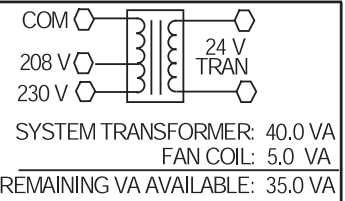
A12363

THIS COMPARTMENT MUST BE CLOSED EXCEPT FOR SERVICING

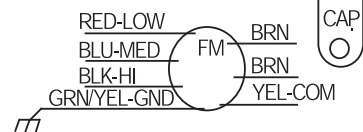
BLOWER MOTOR
ROTATION



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 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, 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

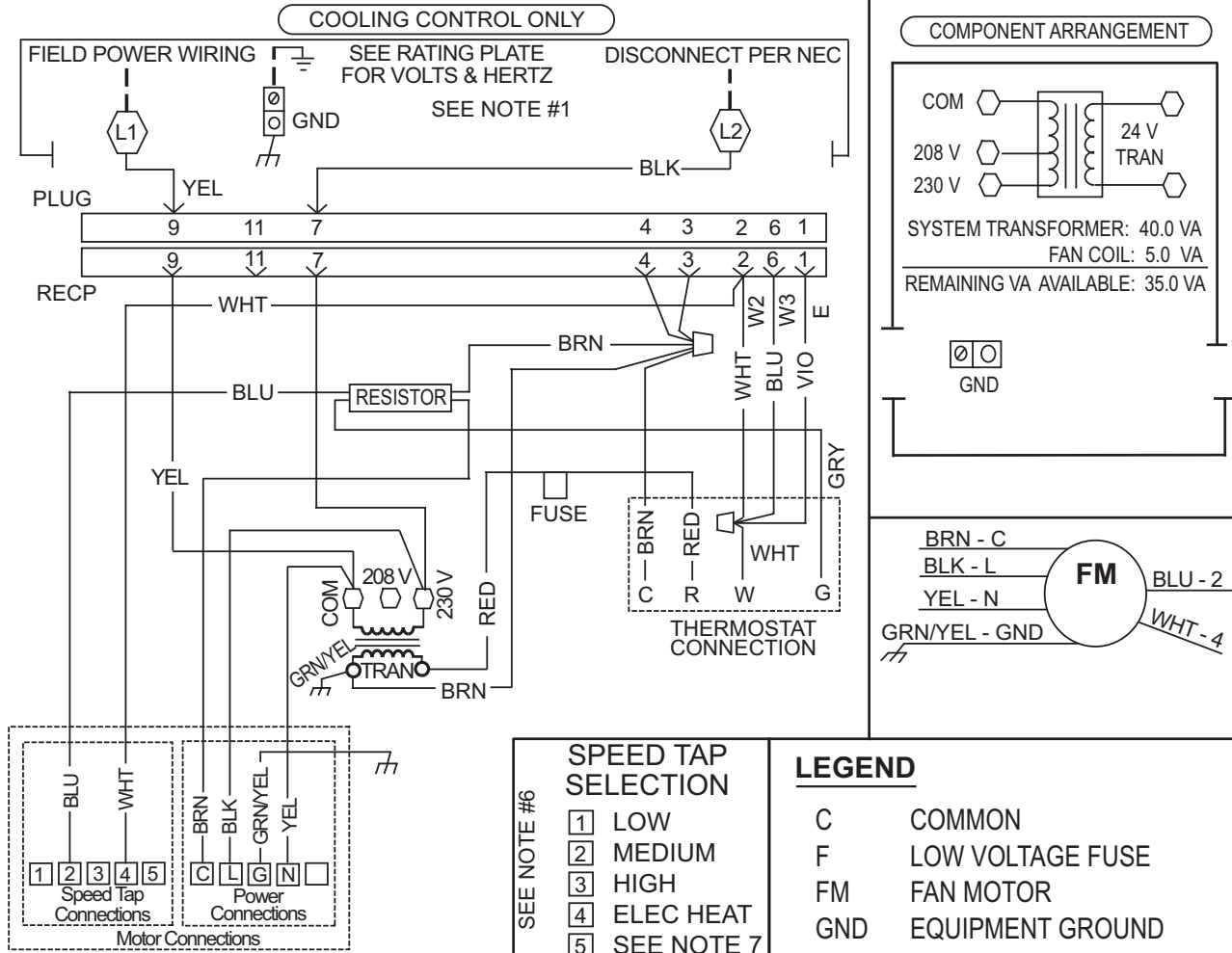
1. Use Copper Wire (75°C Min) Only Between Disconnect Switch And Unit.
2. To Be Wired In Accordance With NEC And Local Codes.
3. If Any Of The Original Wire, As Supplied, Must Be Replaced, Use The Same Or Equivalent Type Wire.
4. Replace Low Voltage Fuse With No Greater Than 5 Amp Fuse.
5. (3) Speed 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

THIS COMPARTMENT MUST BE CLOSED EXCEPT FOR SERVICING

BLOWER MOTOR
ROTATION



NOTES

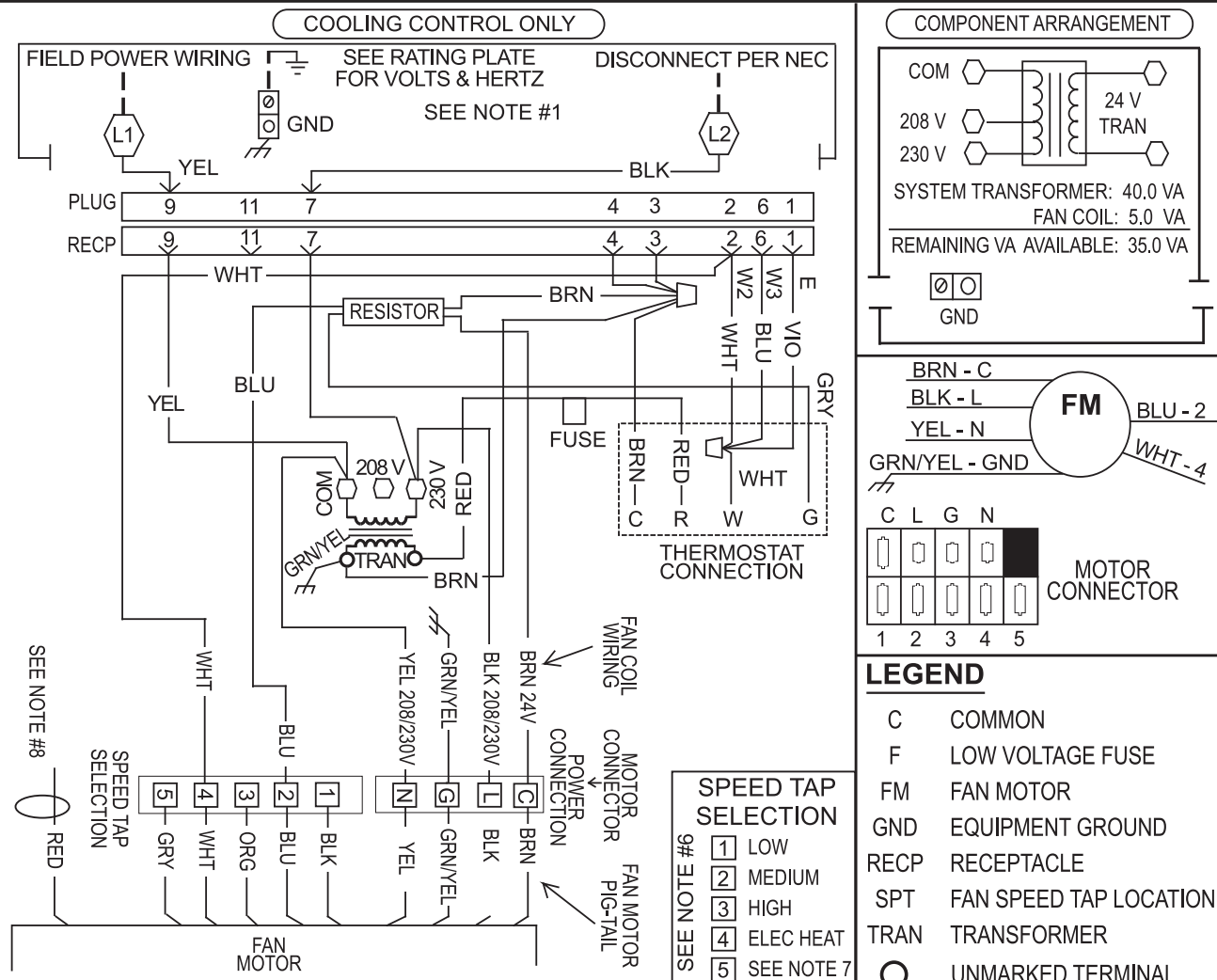
1. Use Copper Wire (75°C Min) Only Between Disconnect Switch And Unit.
2. To Be Wired In Accordance With NEC And Local Codes.
3. If Any Of The Original Wire, As Supplied, Must Be Replaced. Use The Same Or Equivalent Type Wire.
4. Replace Low Voltage Fuse With No Greater Than 5 Amp Fuse.
5. Connect R 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.

Fig. 18 - 336228-101

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

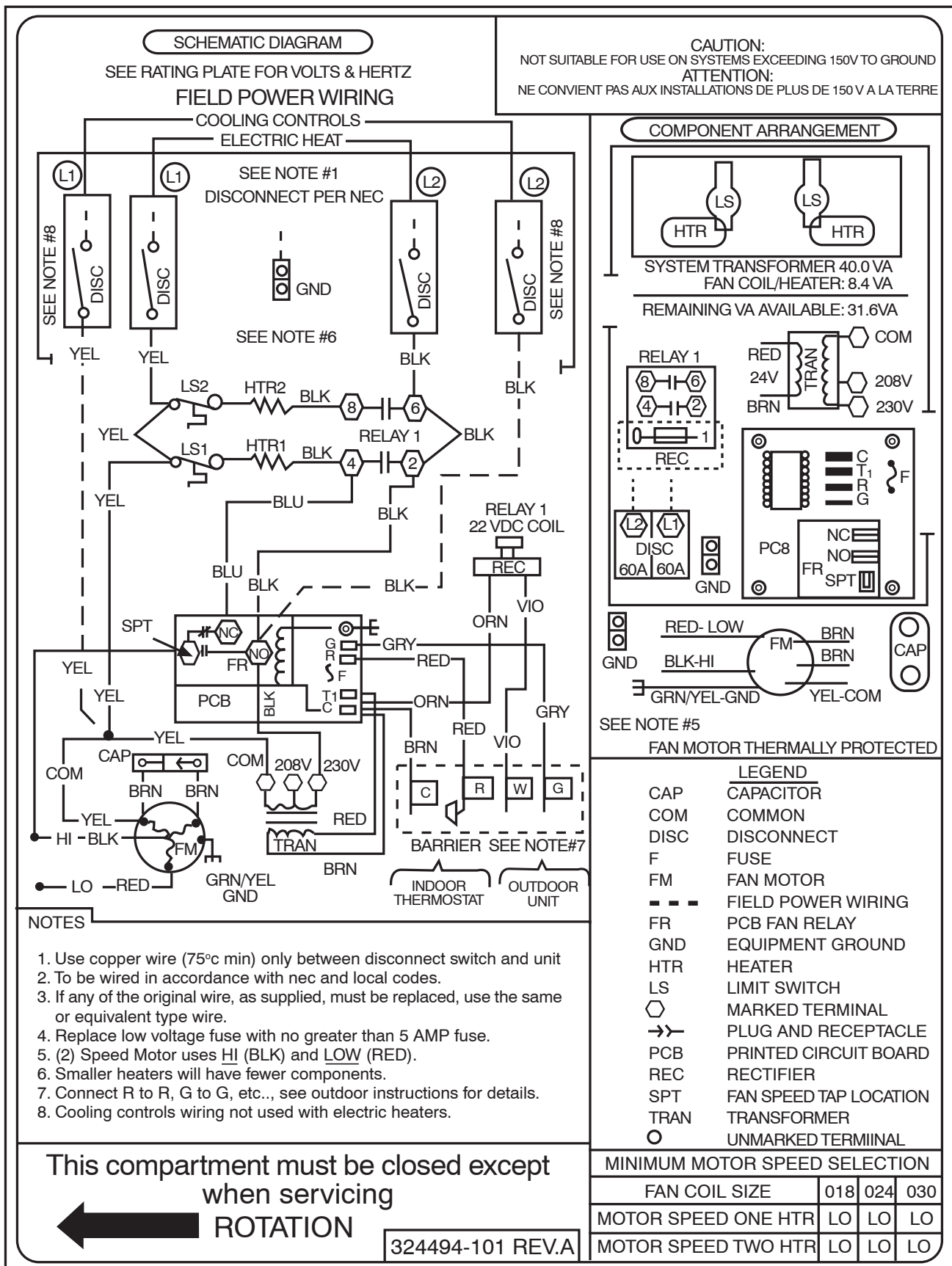


Fig. 20 - 324494-101

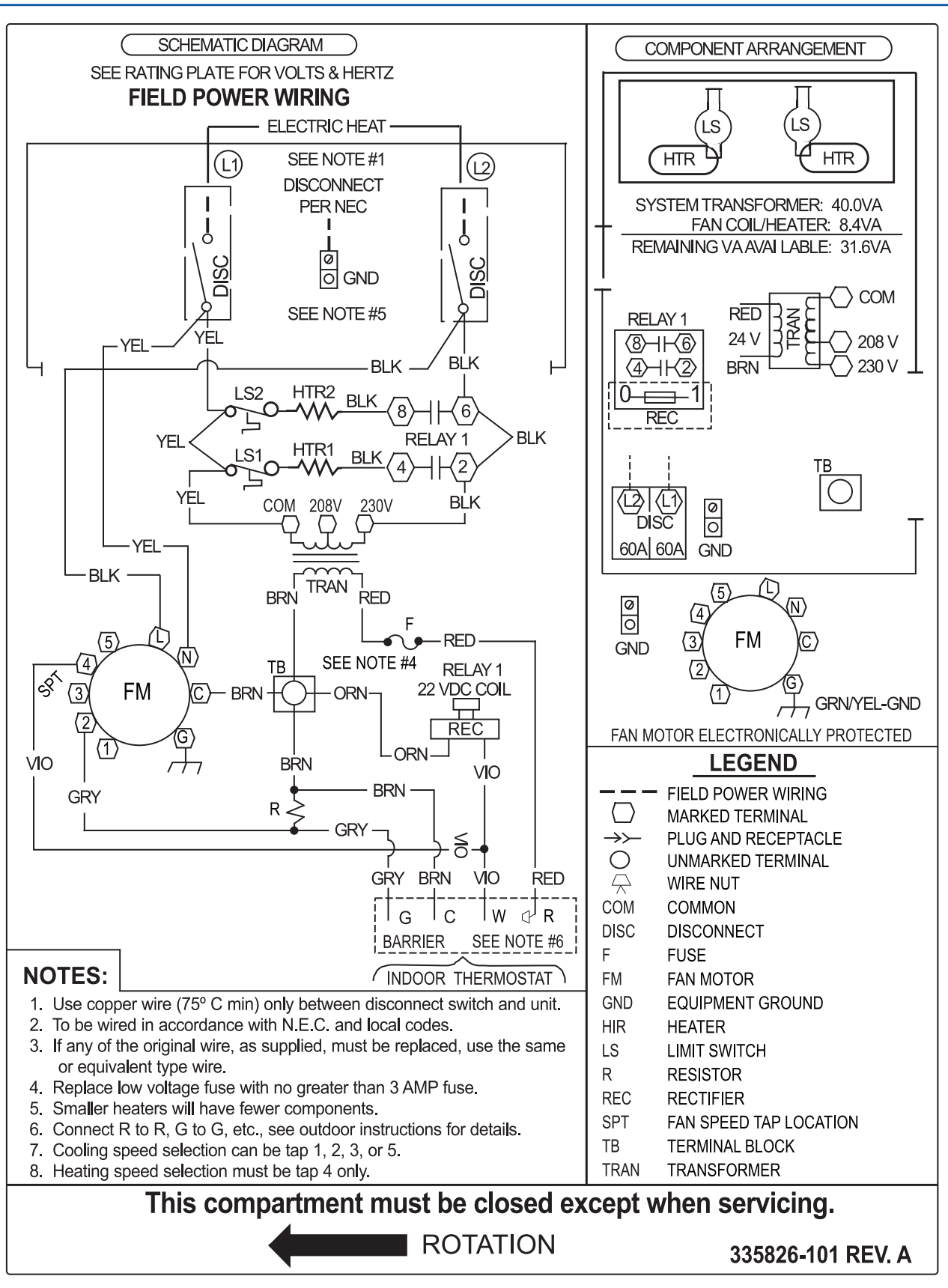
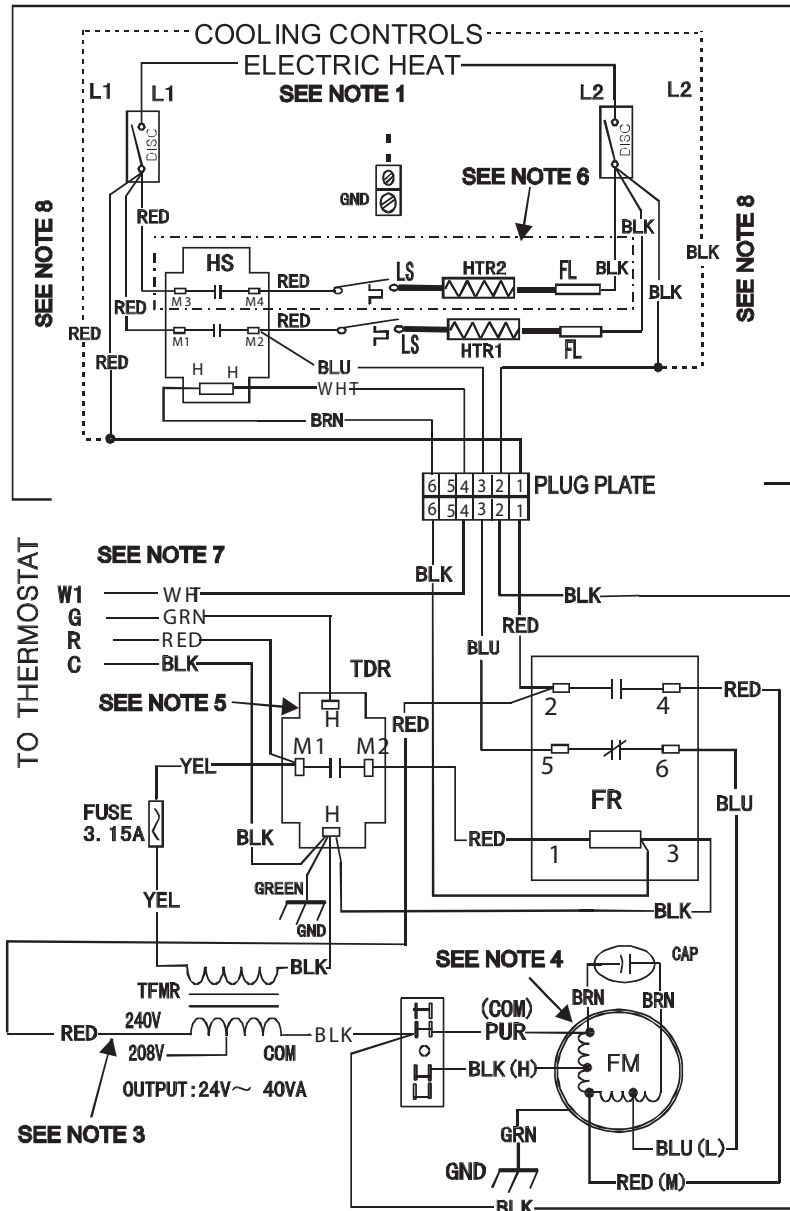


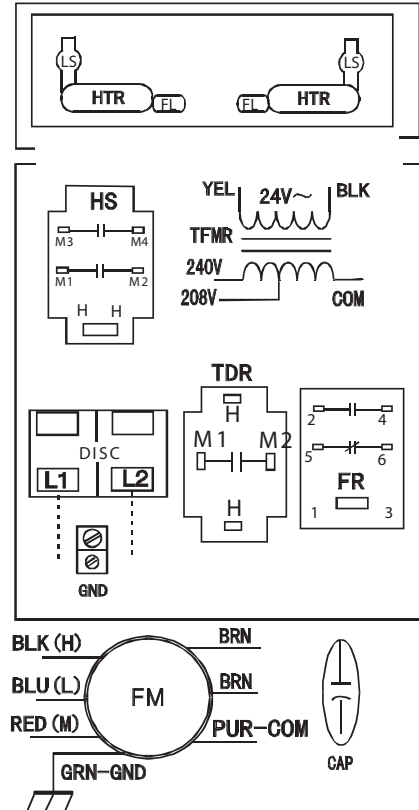
Fig. 21 - 335826-101

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.

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Fig. 22 - EHK2 Electric Heaters with Sequencers

A13131

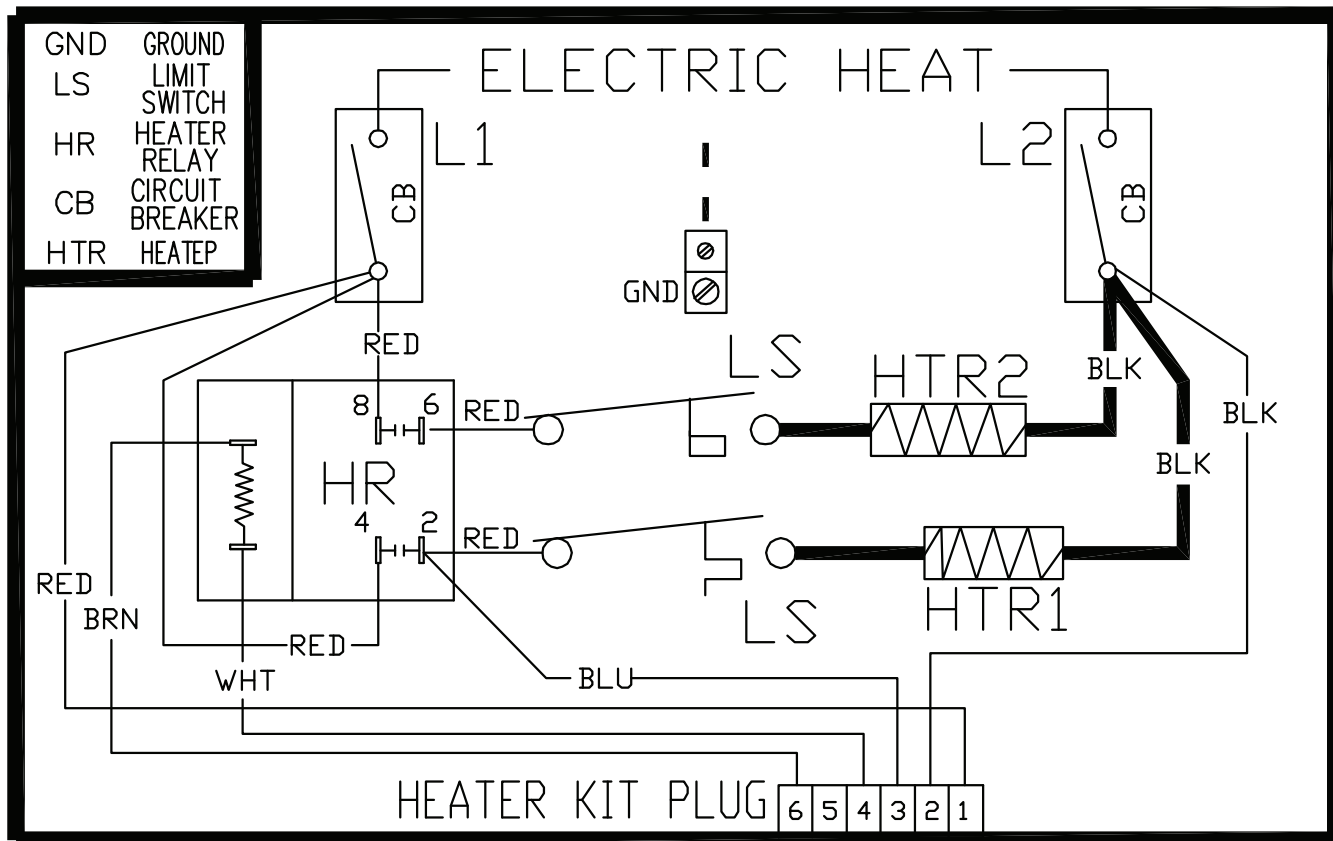


Fig. 23 - EHK2 Electric Heaters

A14322

SCHEMATIC DIAGRAM

SEE RATING PLATE FOR VOLTS&HERTZ

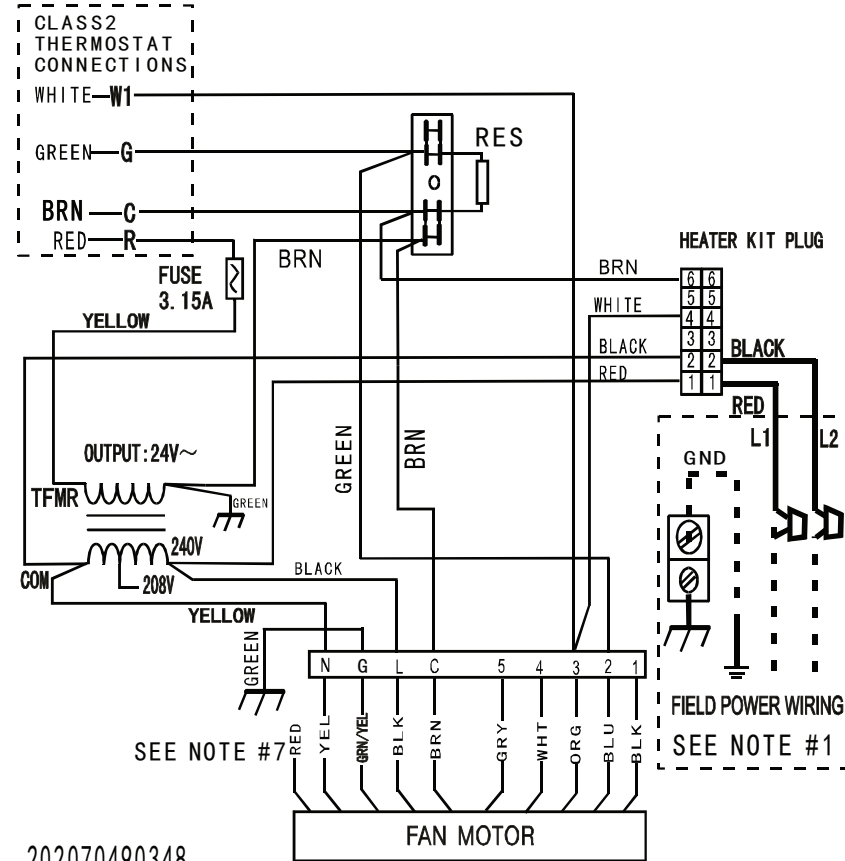
FIELD POWER WIRING

CAUTION:

NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND

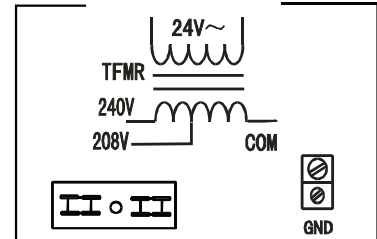
ATTENTION:

NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150V A LA TERRE



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COMPONENT ARRANGEMENT



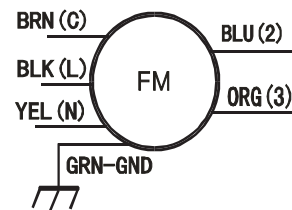
SPEED TAP SELECTION

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

SEE NOTE #5, #6 & #8.

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.



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

Fig. 24 - FFMANP(019, 031)

A14323

SCHEMATIC DIAGRAM

SEE RATING PLATE FOR VOLTS&HERTZ

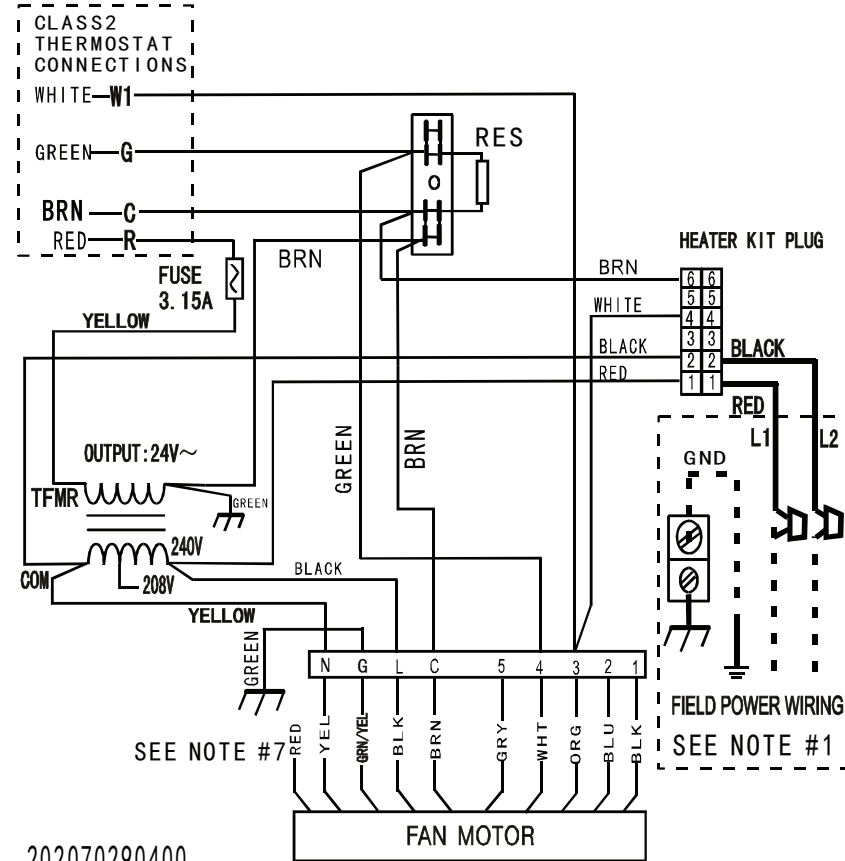
FIELD POWER WIRING

CAUTION:

NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND

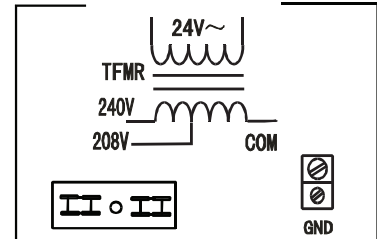
ATTENTION:

NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150V A LA TERRE



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COMPONENT ARRANGEMENT



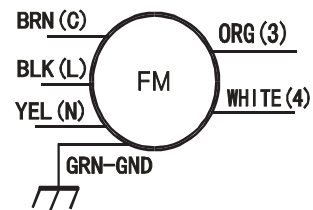
SPEED TAP SELECTION

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

SEE NOTE #5, #6 & #8.

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.



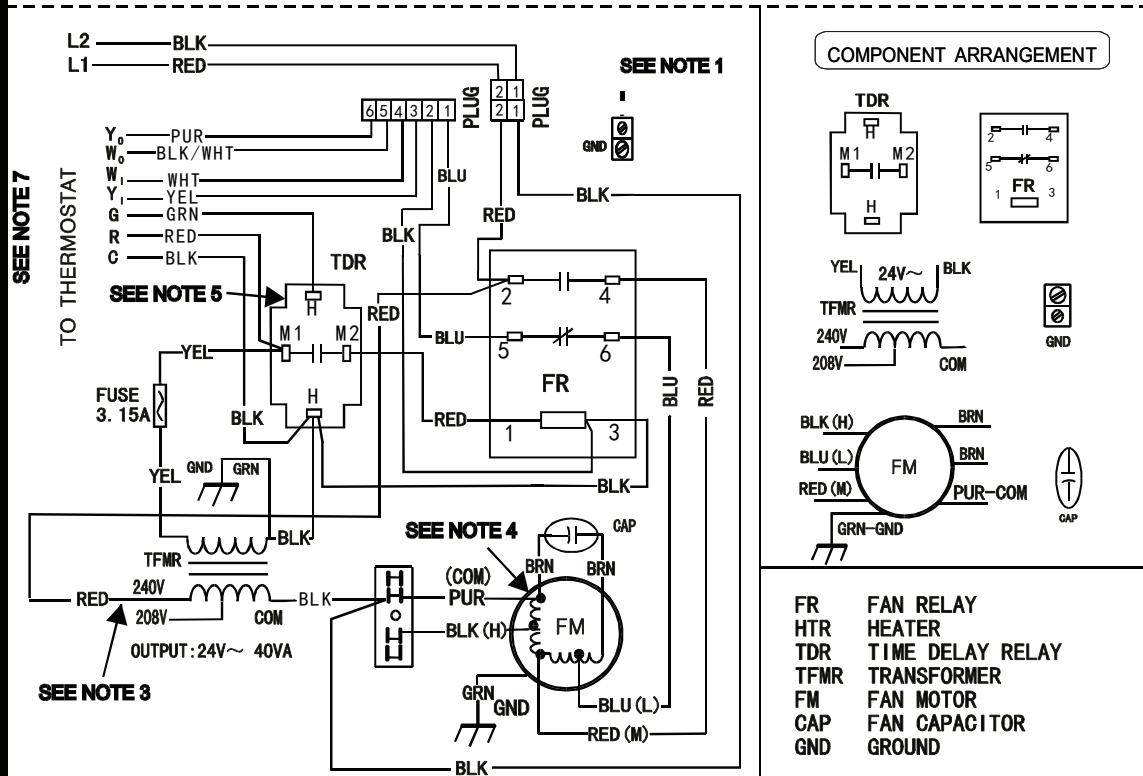
TFMR TRANSFORMER
FM FAN MOTOR
GND GROUND
RES RESISTOR
- - - FIELD POWER WIRING

Fig. 25 - FFMANP(025, 037)

A14324

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



- 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. Fan coils equipped with electric heater connect power supply to terminal block. Cooling controls wiring not used with electric heaters.
 - 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 connected to FR #6. Always connect the unused FM wire to the dummy terminal block.
 - 5: TDR has a 1-20s on delay when "G" is energized and a 50-70s off delay when "G" is de-energized.
 - 6: Connect R to R, G to G, etc. See outdoor or indoor instructions for details.

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Fig. 26 - FPM(A,B)N(U,C)

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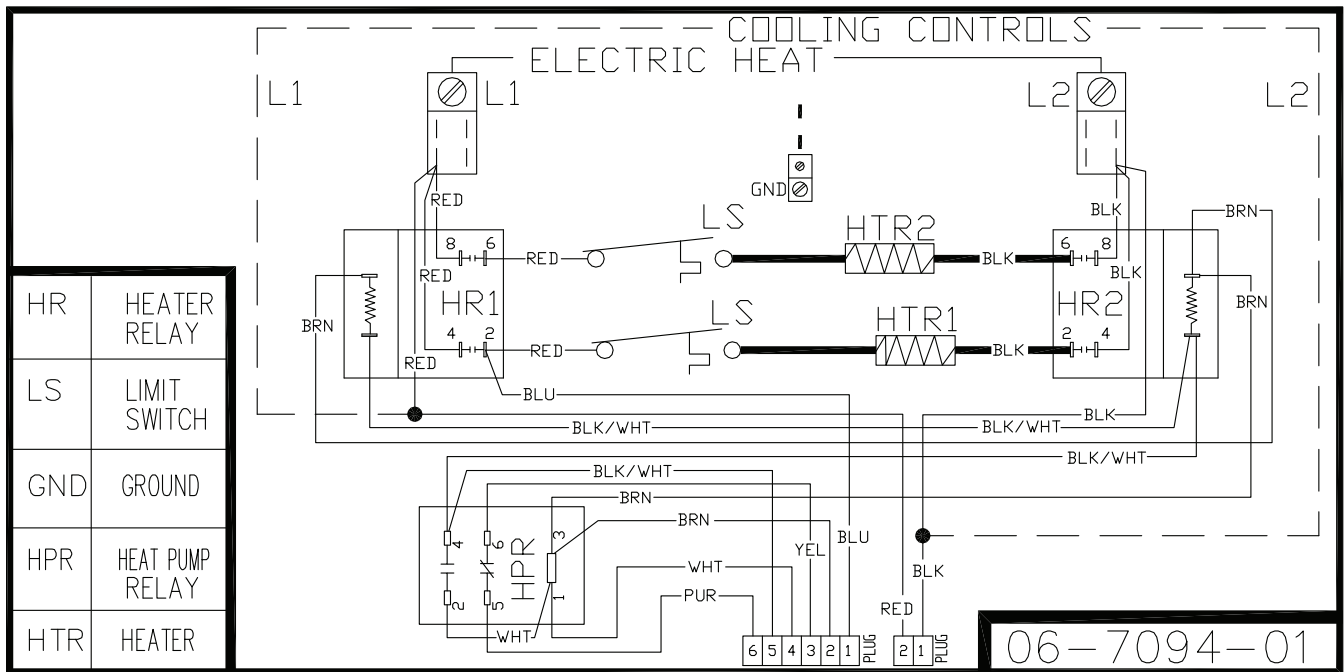


Fig. 27 - EHK3 Electric Heaters

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