FAN COILS
ACCESSORY ELECTRIC HEATERS

WIRING DIAGRAMS

FIG.	FIELD–INSTALLED HEATER MODEL	FB4C	FE4A/FE5A	FH4C	FV4C	FX4D	FY5B	FZ4A	PF4MA	PF4MB	LABEL
1	KFCEH0401N03A	18,24	x	001	x	19,25	18,24	24	18,19,24,25	x	340816–101
1	KFCEH0501N05A	18-60	002-006	001-002	002-006	19-61	18-60	24–61	18-61	19-61	340816–101
2	KFCEH0801N08A	18-60	002-006	001-003	002-006	19-61	18-60	24–61	18-61	19-61	340817–101
2	KFCEH0901N10A	18-60	002-006	001-004	002-006	19-61	18-60	24–61	18-61	19-61	340817–101
6	KFCEH1601315A	42-60	002-006	001-004	002-006	43-61	18-60	48–61	18-61	19-61	340819–101
7	KFCEH2001318A	42-60	003-006	001-004	002-006	43-61	42-60	48–61	42-61	37-61	340818–101
1	KFCEH2401C05A	18-60	002-006	001-002	002-006	19-61	18-60	24–61	18-61	19-61	340816–101
2	KFCEH2501C08A	18-60	002-006	001-003	002-006	19-61	18-60	24–61	18-61	19-61	340817–101
2	KFCEH2601C10A	18-60	002-006	001-004	002-006	19-61	18-60	24–61	18-61	19-61	340817–101
3	KFCEH2901N09A	36-60	002-006	003-004	002-006	37-61	36-60	36–61	36-60	31-61	340813–101
4	KFCEH3001F15A	24-60	002-006	001-004	002-006	25-61	24-60	24–61	24-61	19-61	340814–101
4	KFCEH3101C15A	24-60	002-006	001-004	002-006	25-61	24-60	24–61	24-61	19-61	340814–101
5	KFCEH3201F20A	30-60	002-006	002-004	002-006	31-61	30-60	36–61	30-61	19-61	340815–101
5	KFCEH3301C20A	30-60	002-006	002-004	002-006	31-61	30-60	36–61	30-61	19-61	340815–101
8,9	KFCEH3401F24A	48,60	004-006	003-004	005-006	49-61	48-60	48–61	48-61	49-61	340821–101, 340820–101
8,9	KFCEH3501F30A	48,60	004-006	003-004	005-006	49-61	48-60	48–61	48-61	49-61	340821–101 340820–101

FAN COIL WITH RBC X–13 MOTOR OR BROAD OCEAN DIGI MOTOR

FIG.	FACTORY-INSTALLED HEATER MODEL	FB4C	FX4D	FZ4A	LABEL
11	MKFCEH0501N05A	18,24	19,25	--	341018-101
10	MKFCEH0801N08A	18,30	31	--	341017-101
10	MKFCEH0901N10A	24-48	37-61	--	
12	MKFCEH3001F15A	36-60	61	--	341019-101
29	MKFCEH3001F05A	--	--	24	342100-101
30	MKFCEH3001F08A	--	--	36,48	342106-101
	MKFCEH3001F10A	--	--		
31	MKFCEH3001F15A	--	--	60,61	342105-101

FAN COIL WITH COOLING ONLY CONTROL

FIG.	MODEL	SIZE	LABEL
13	FV4C	002-006	326014-101
14	FE4A/FE5A	002-006	333107-101
15	FY5B/PF4MNA	18-60	328964-101
15	FH4C	001-004	328964-101
16	FB4C/FX4D (RBC)	18-61	336228-101
16	PF4MNA/B	19,25,31,37,43,49,61	336228-101
17	FB4C/FX4D (BOM)	18-61	337519-101
32	FZ4A	24-61	342099-101

ELECTRIC HEATERS

FIG.	HEATER MODEL	FF1E	LABEL
18	KFDEH0801D05A	18,24,30,36	341080-101
19	KFDEH0901D75A	18,24,30,36	341081-101
19	KFDEH1001D11A	18,24,30,36	341081-101
20	KFEEH0101D05A	19,25,31,37	341082-101
21	KFEEH0201D75A	19,25,31,37	341083-101
21	KFEEH0301D11A	19,25,31,37	341083-101

FIG.	HEATER MODEL	CONTROL TYPE	FFMA	LABEL
22	EHK2-05B	Sequencer - HS	18,24,30,36 Prior to serial number date code 1715V.	202070290385
22	EHK2-08B	Sequencer - HS	18,24,30,36 Prior to serial number date code 1715V.	202070290385
22	EHK2-10B	Sequencer - HS	18,24,30,36 Prior to serial number date code 1715V.	202070290385
23			18-37 Serial number date code 1715V and later.	2020702A717
24	EHK2-05B	Relay - HR	18-37	06-7094-02
24	EHK2-08B	Relay - HR	18-37	06-7094-02
24	EHK2-10B	Relay - HR	18-37	06-7094-02

FIG.	FFMA	LABEL
25	19,31	--
26	25,37	--

FIG.	FPM(A,B)N(C,U)	LABEL
27	ALL	202070290388 Valid for models FPM(A,B)N(C,U)0**000A**A**AA
27	FPMA with Time Delay Board	2020702A2016 Valid for models FPM(A,B)N(C,U)0**000A**B**AA

FIG.	HEATER MODEL	FPMAN(C,U)	FPMBN(C,U)	LABEL
28	EHK3-05B	18-36	18-30	06-7094-03
28	EHK3-08B	18-36	18-30	06-7094-03
28	EHK3-10B	18-36	18-30	06-7094-03

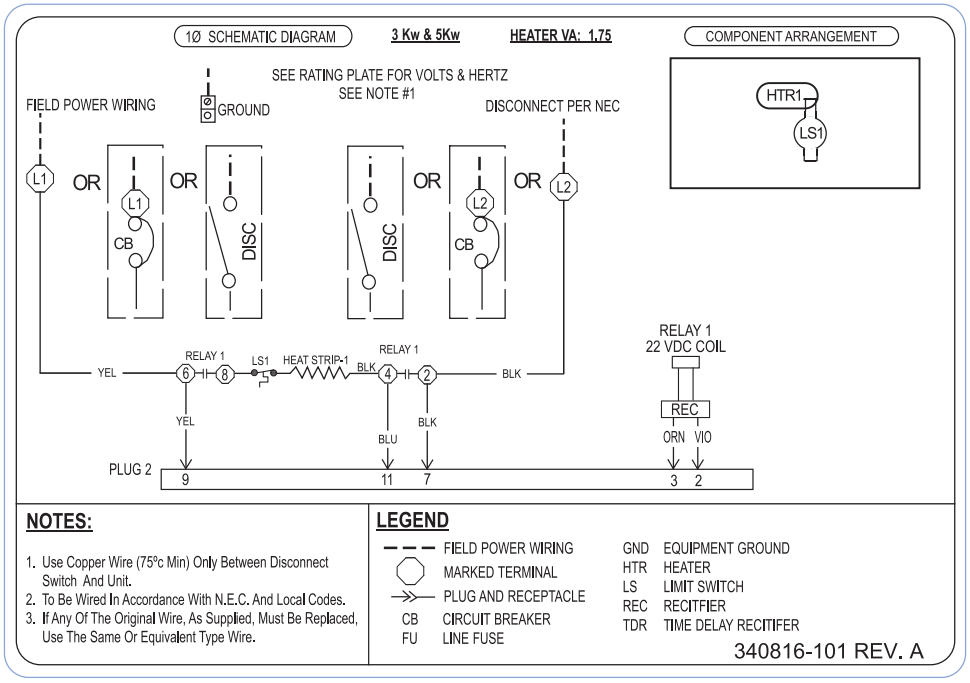
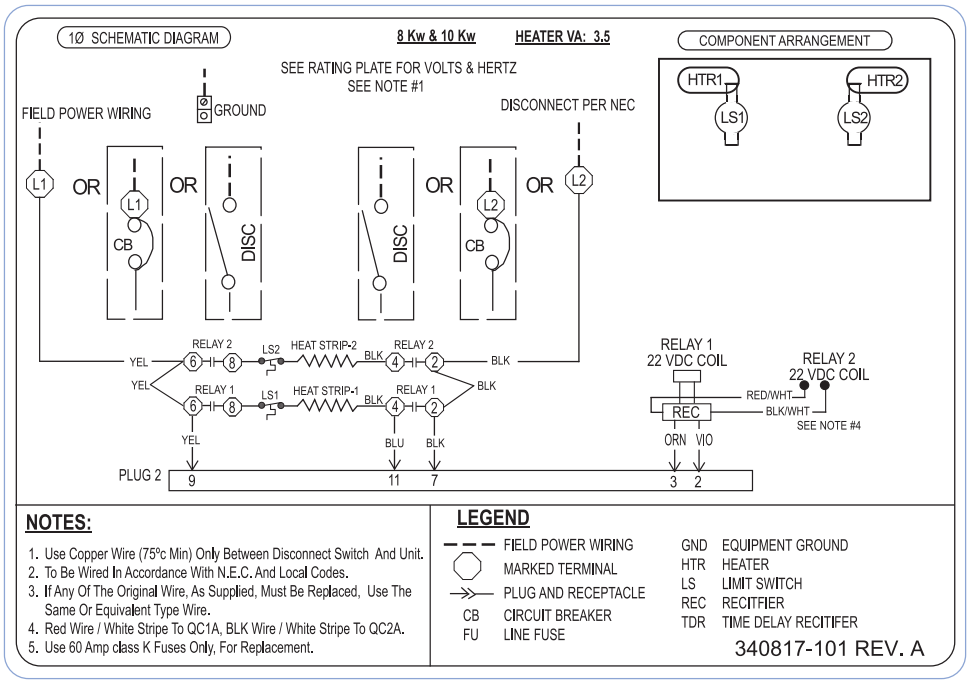


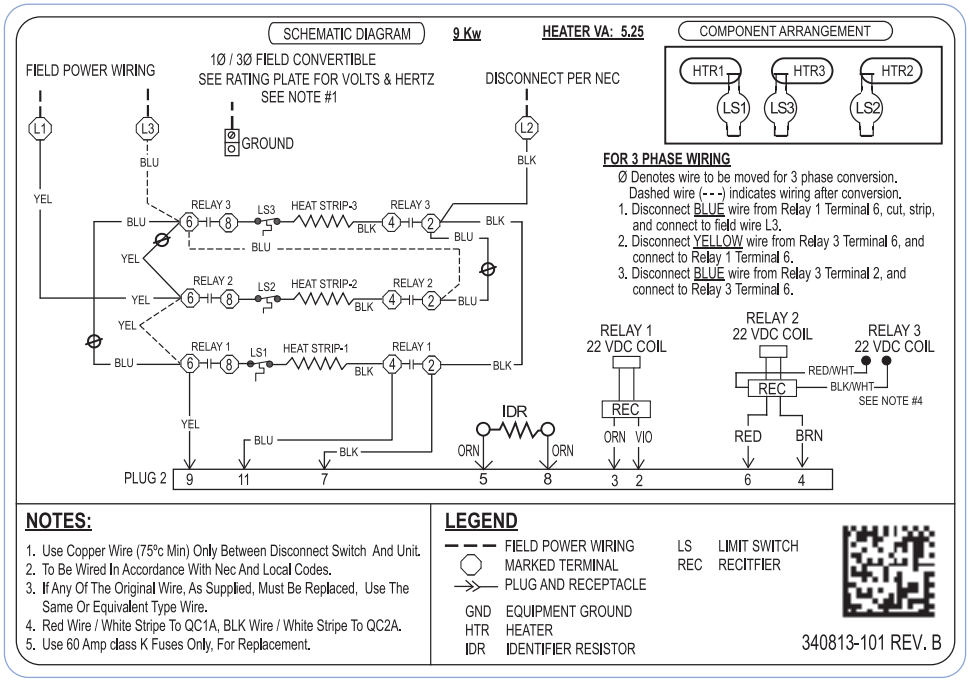
Fig. 1 - 340816-101

A150105



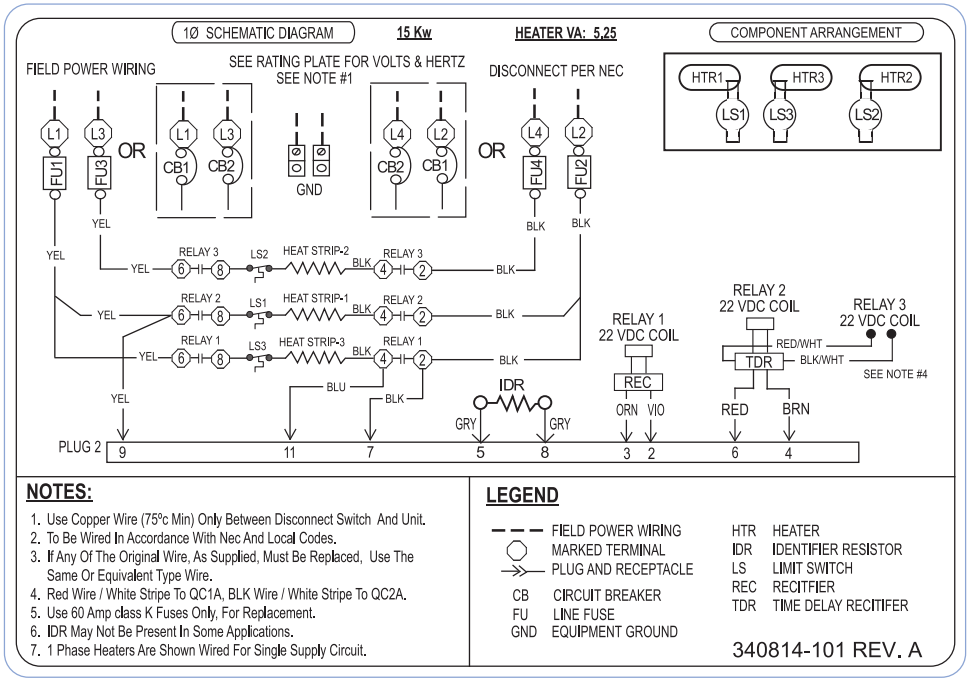
A150106

Fig. 2 - 340817-101



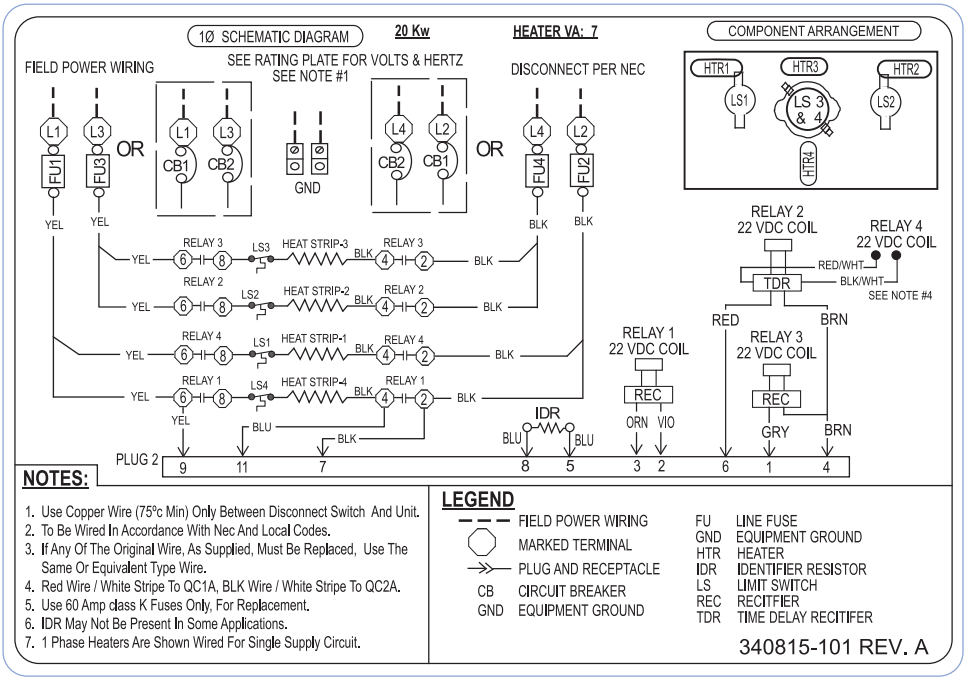
A150102

Fig. 3 - 340813-101



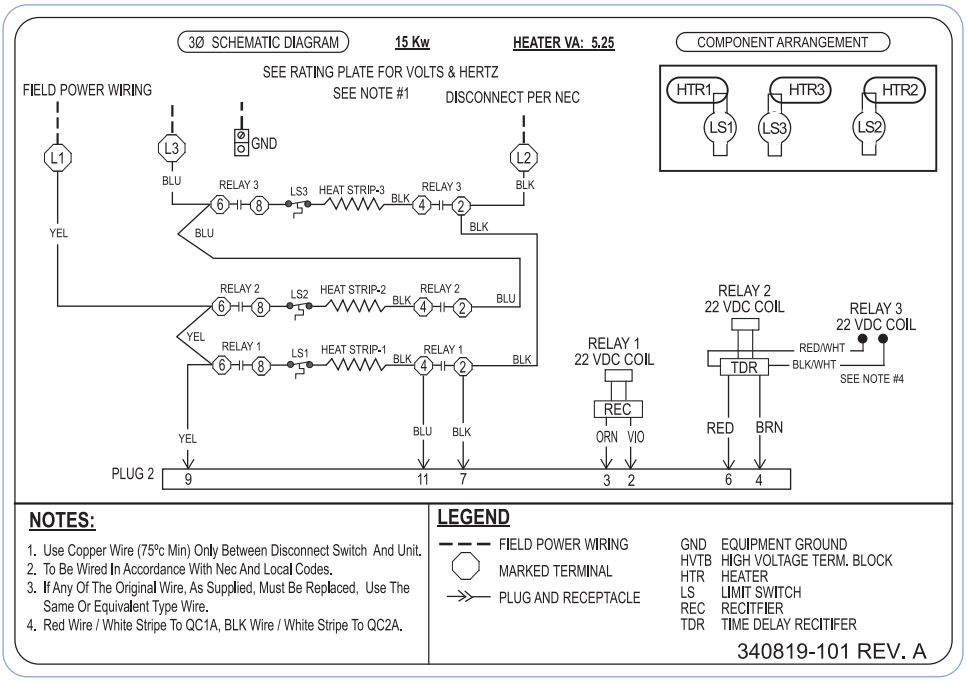
A150103

Fig. 4 - 340814-101



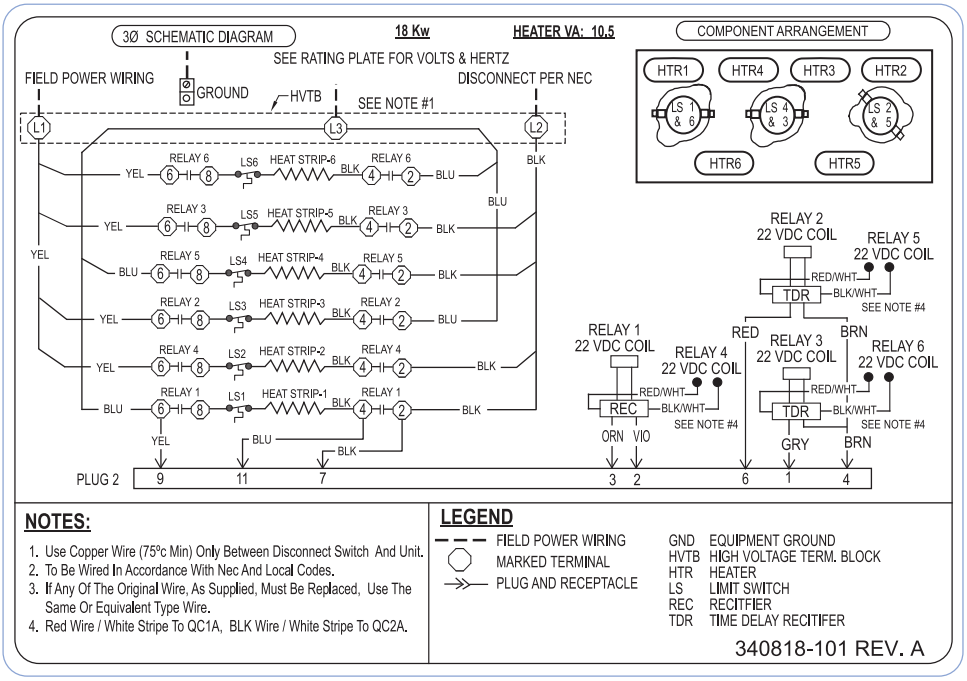
A150104

Fig. 5 - 340815-101



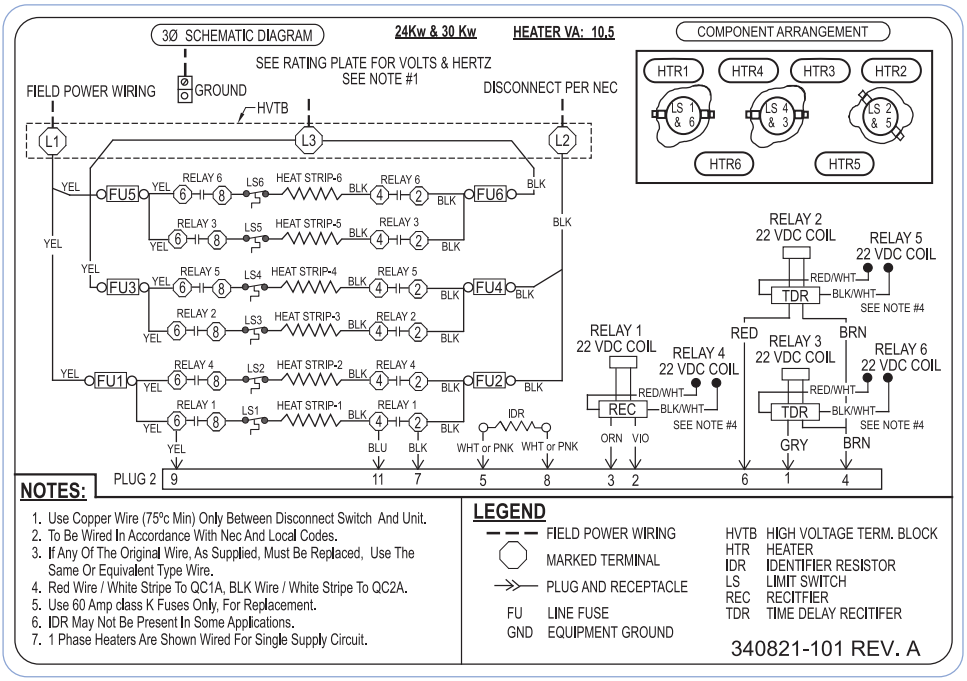
A150108

Fig. 6 - 340819-101



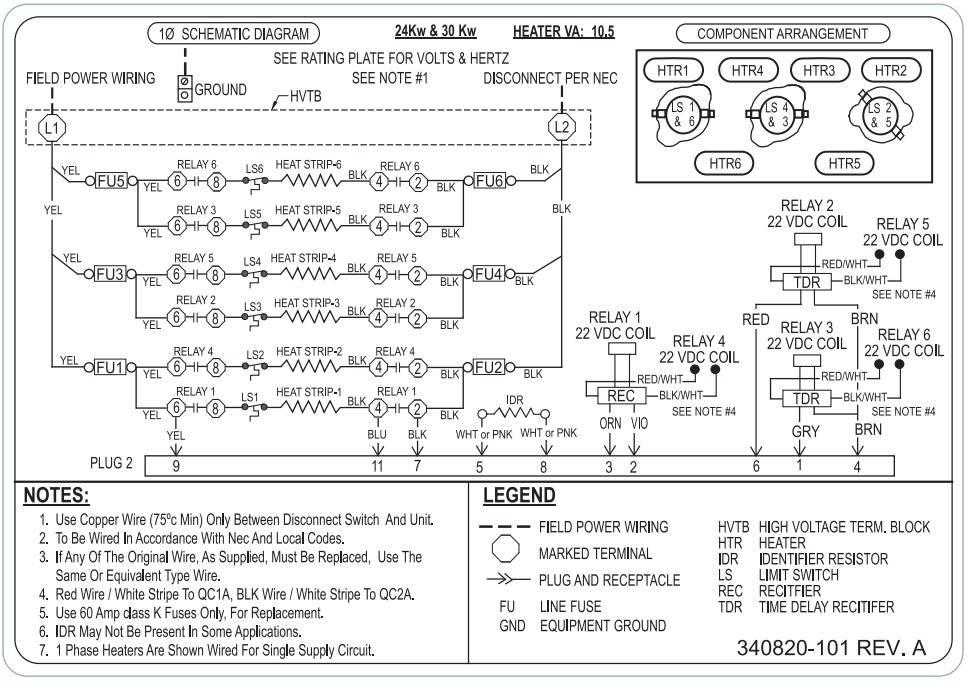
A150107

Fig. 7 - 340818-101



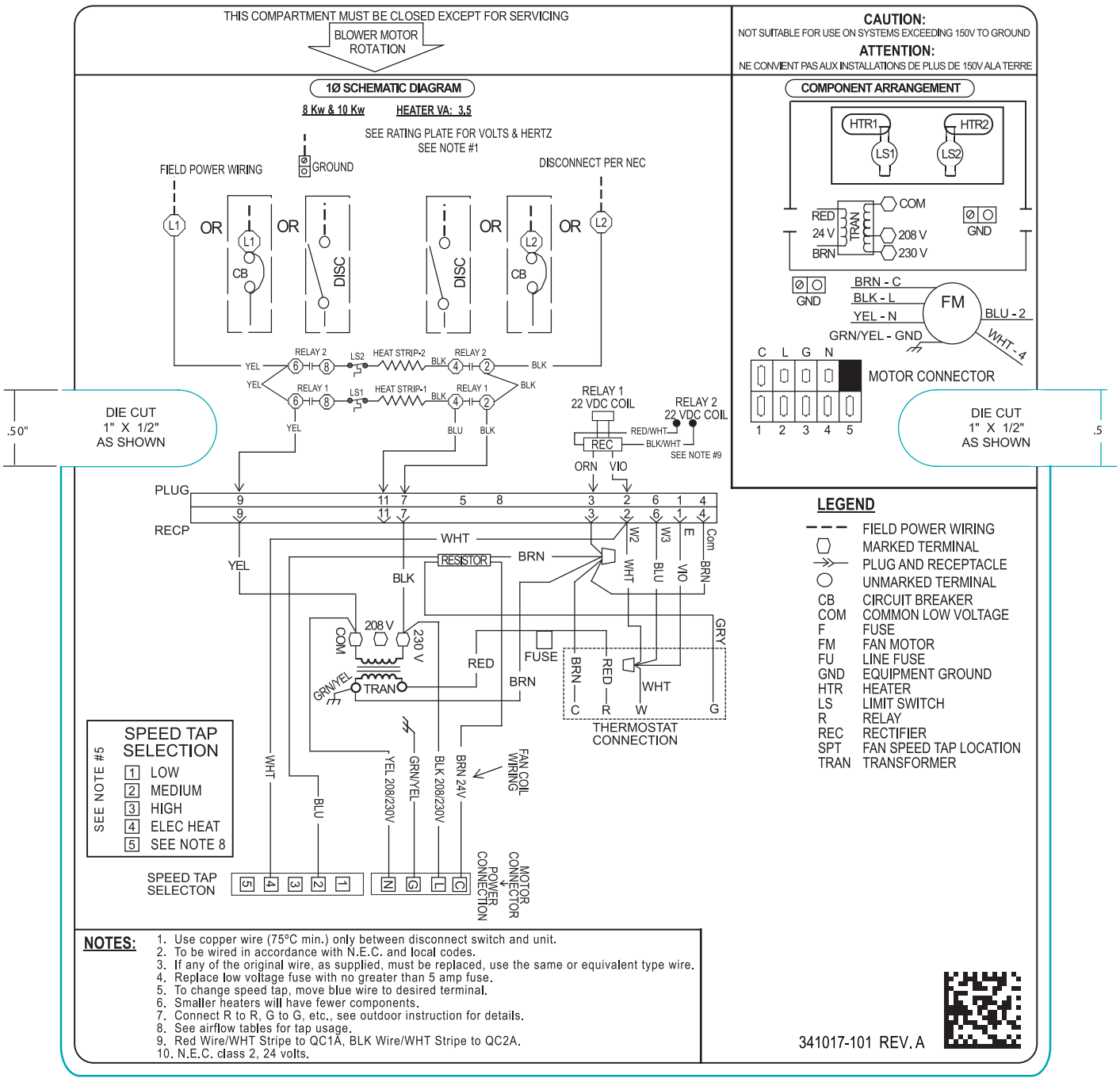
A150109

Fig. 8 - 340821-101



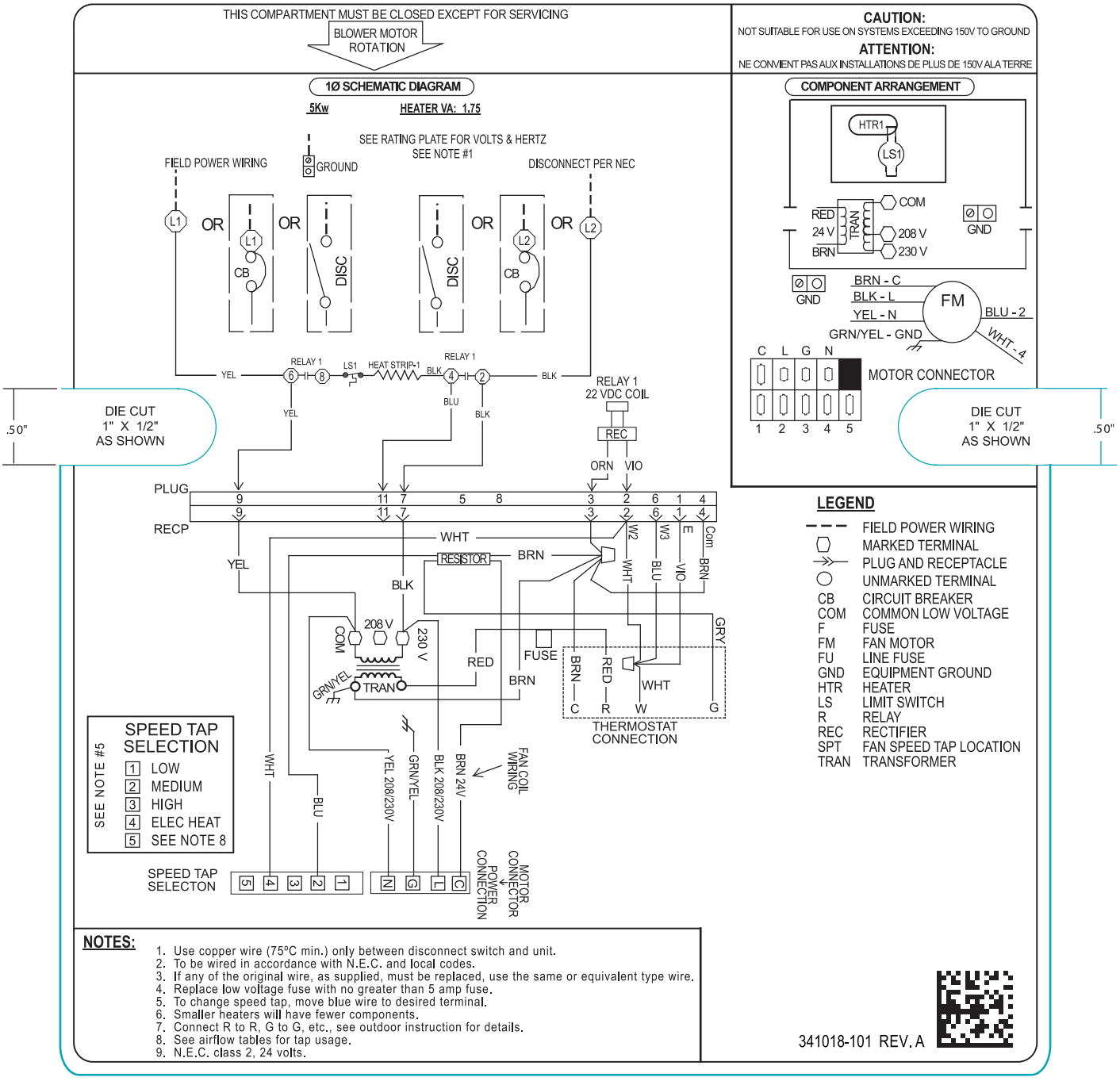
A150110

Fig. 9 - 340820-101



A150111

Fig. 10 - 341017-101



A150112

Fig. 11 - 341018-101

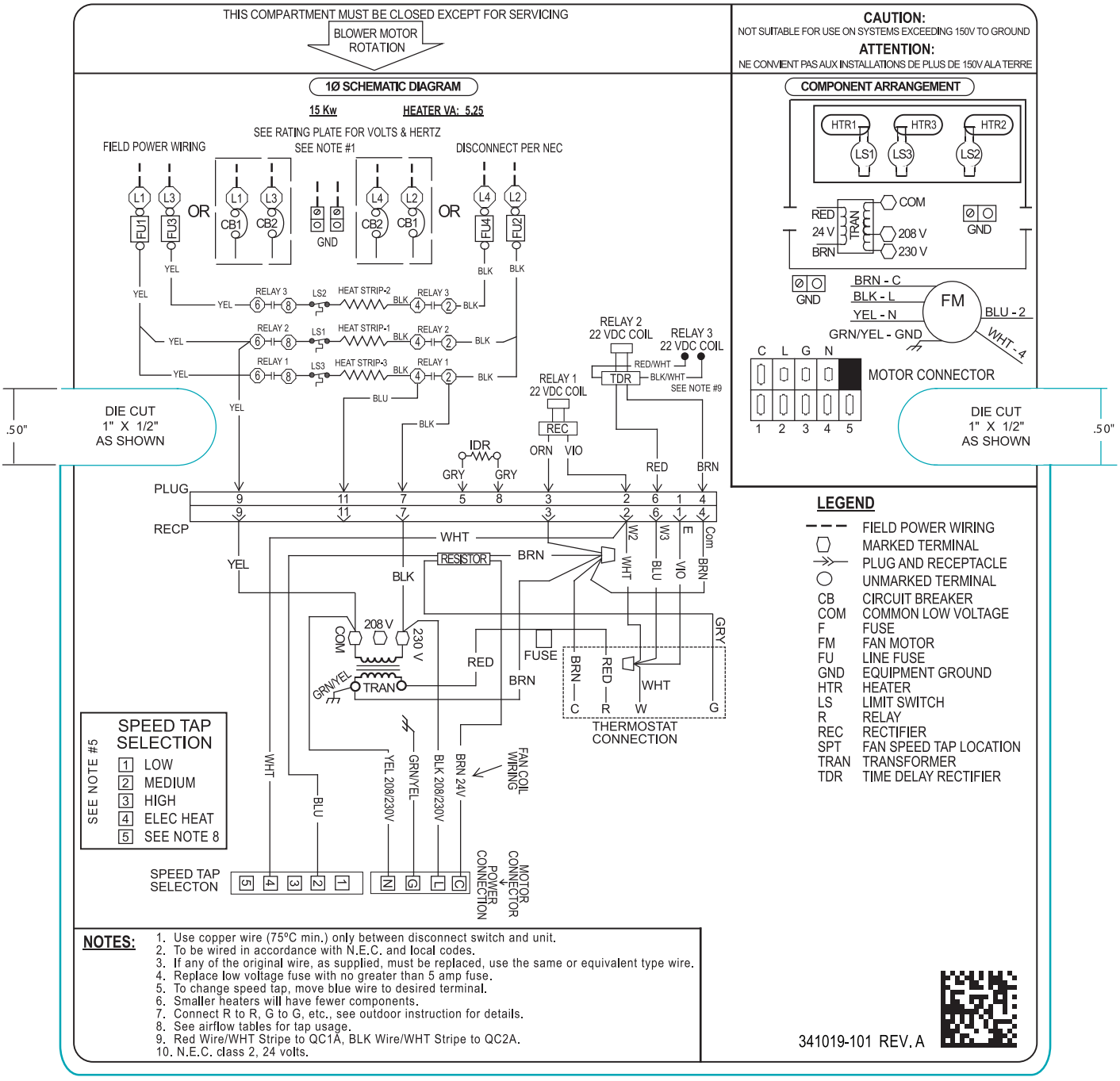
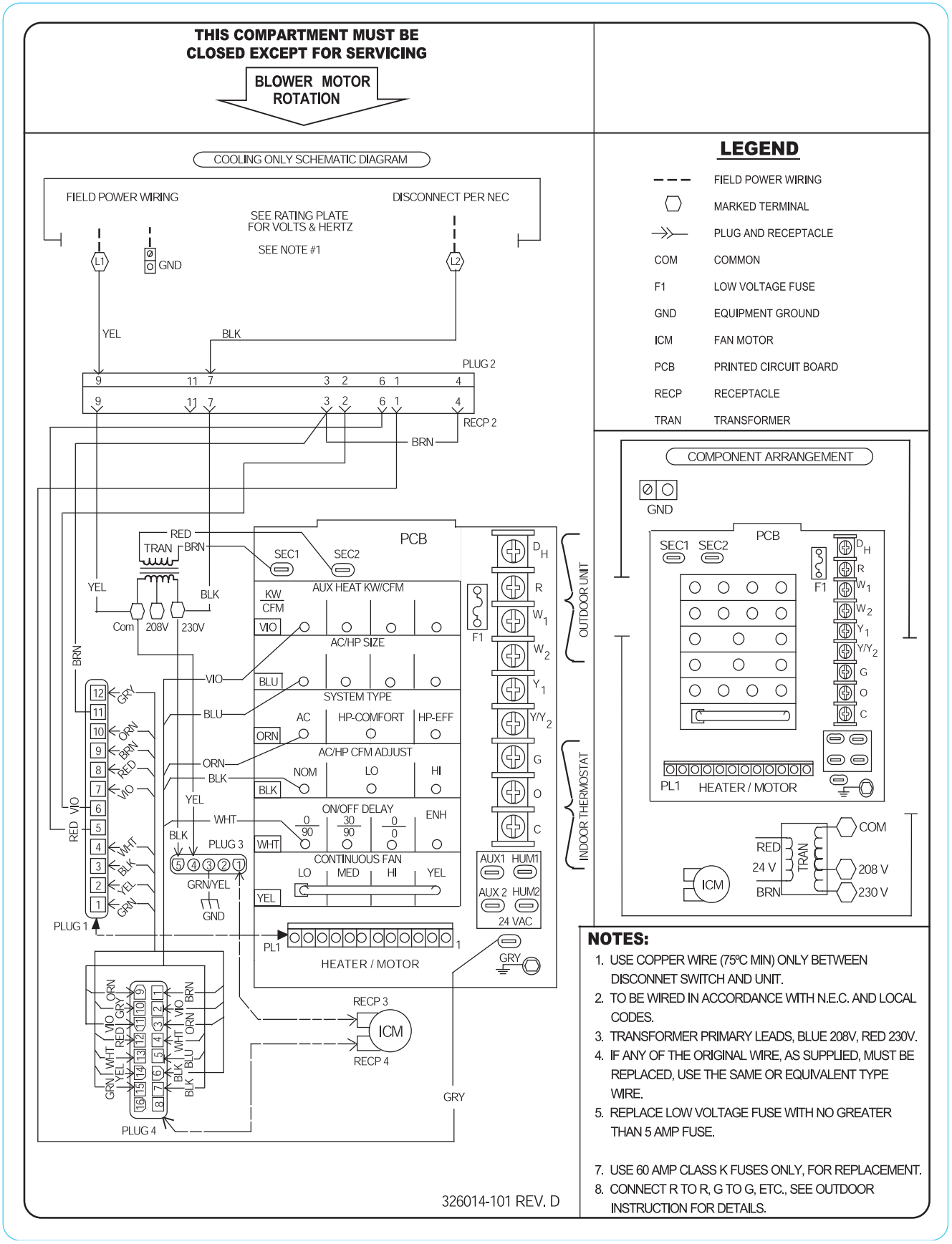
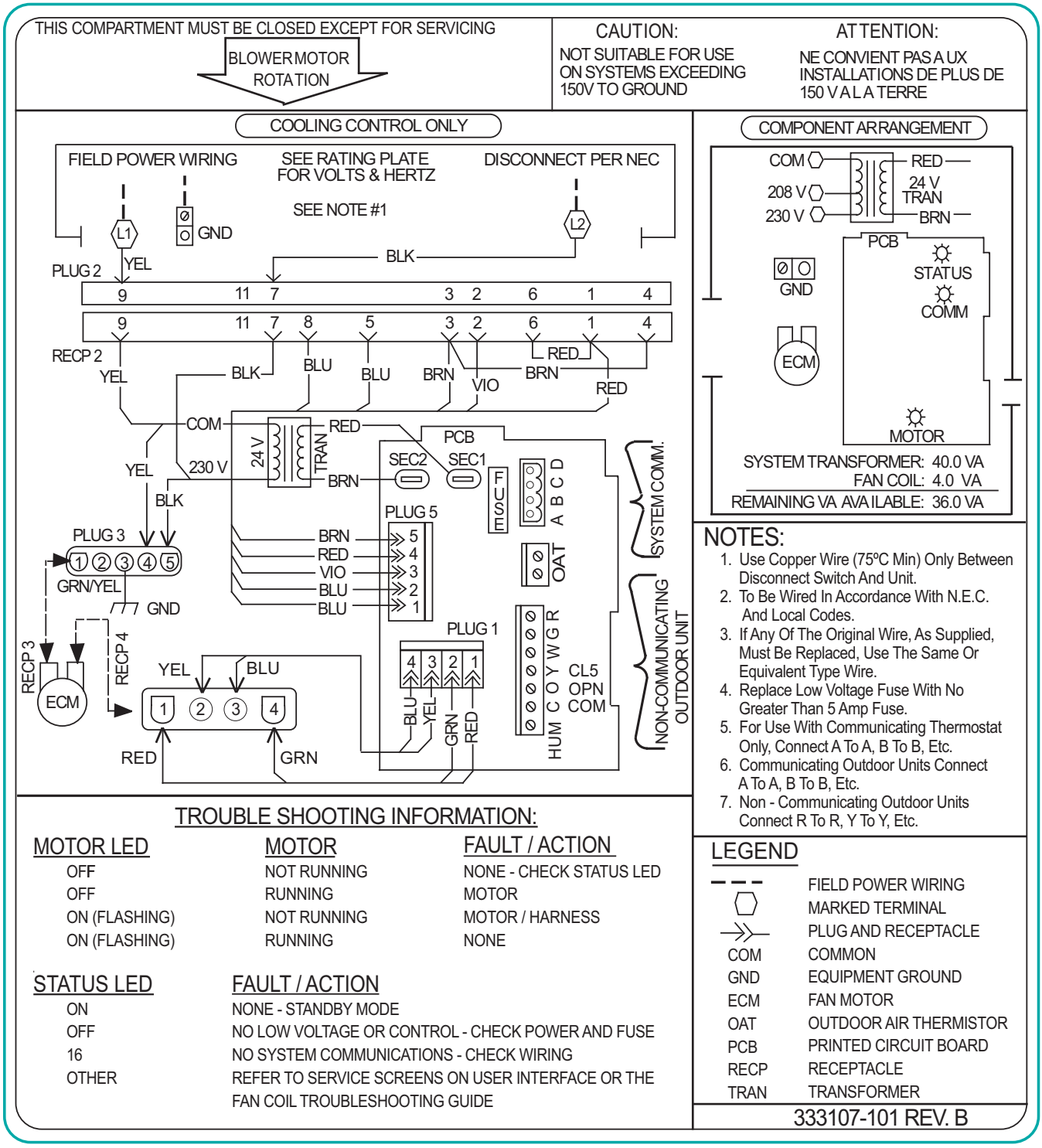


Fig. 12 - 341019-101



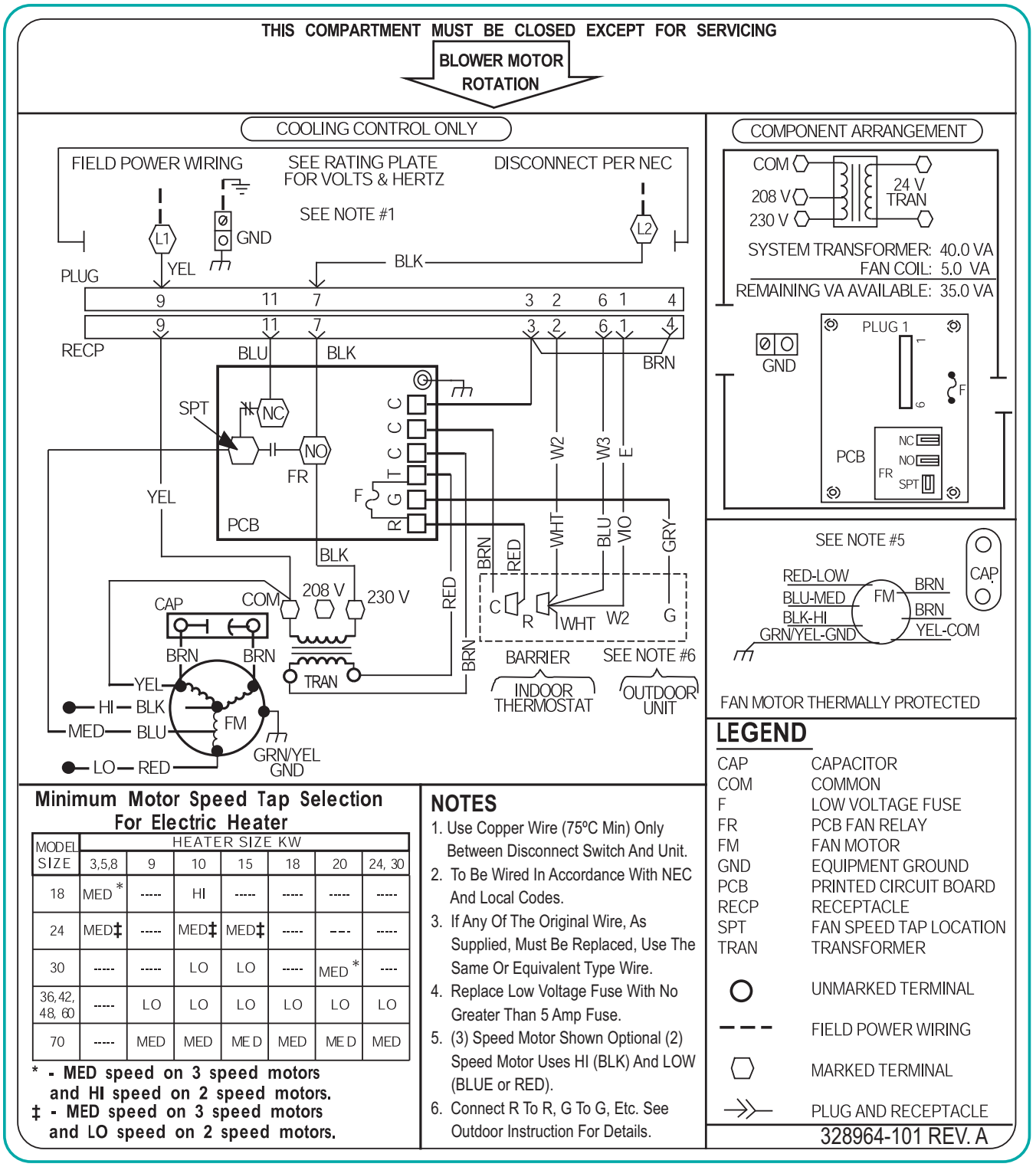
A07029

Fig. 13 - 326014-101



A12363

Fig. 14 - 333107-101



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 (75ºC 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.

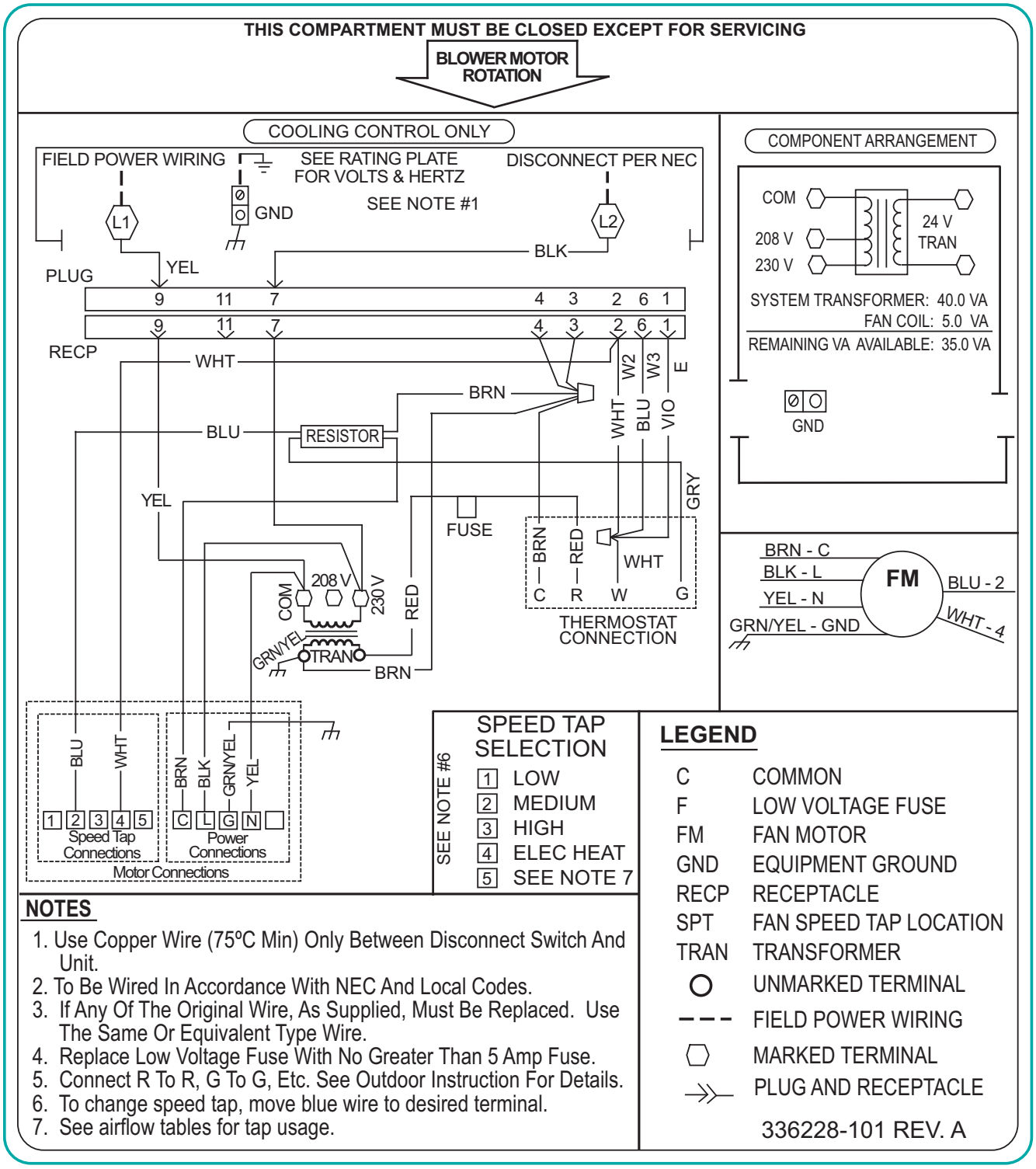
LEGEND

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

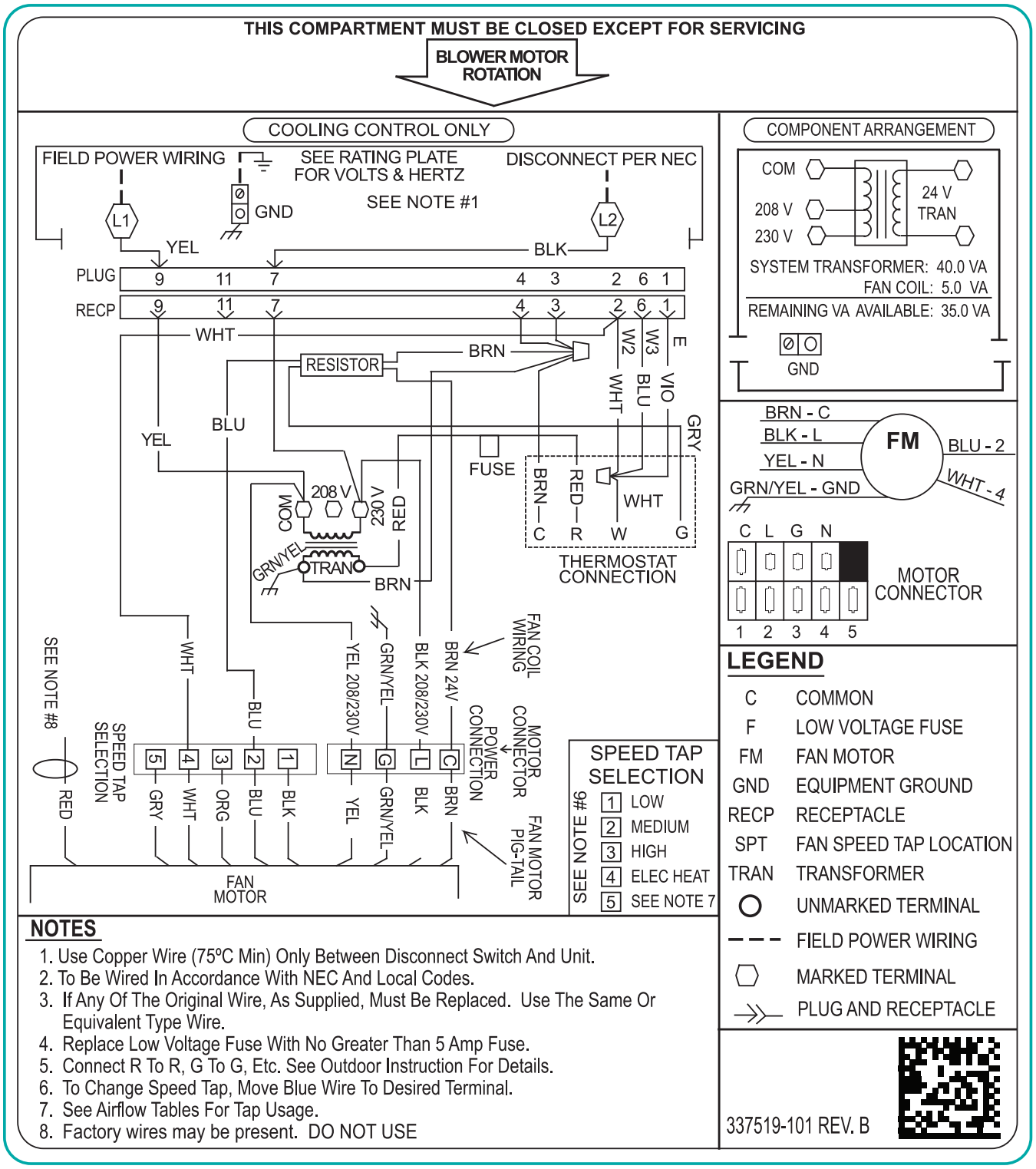
A07027

Fig. 15 - 328964-101



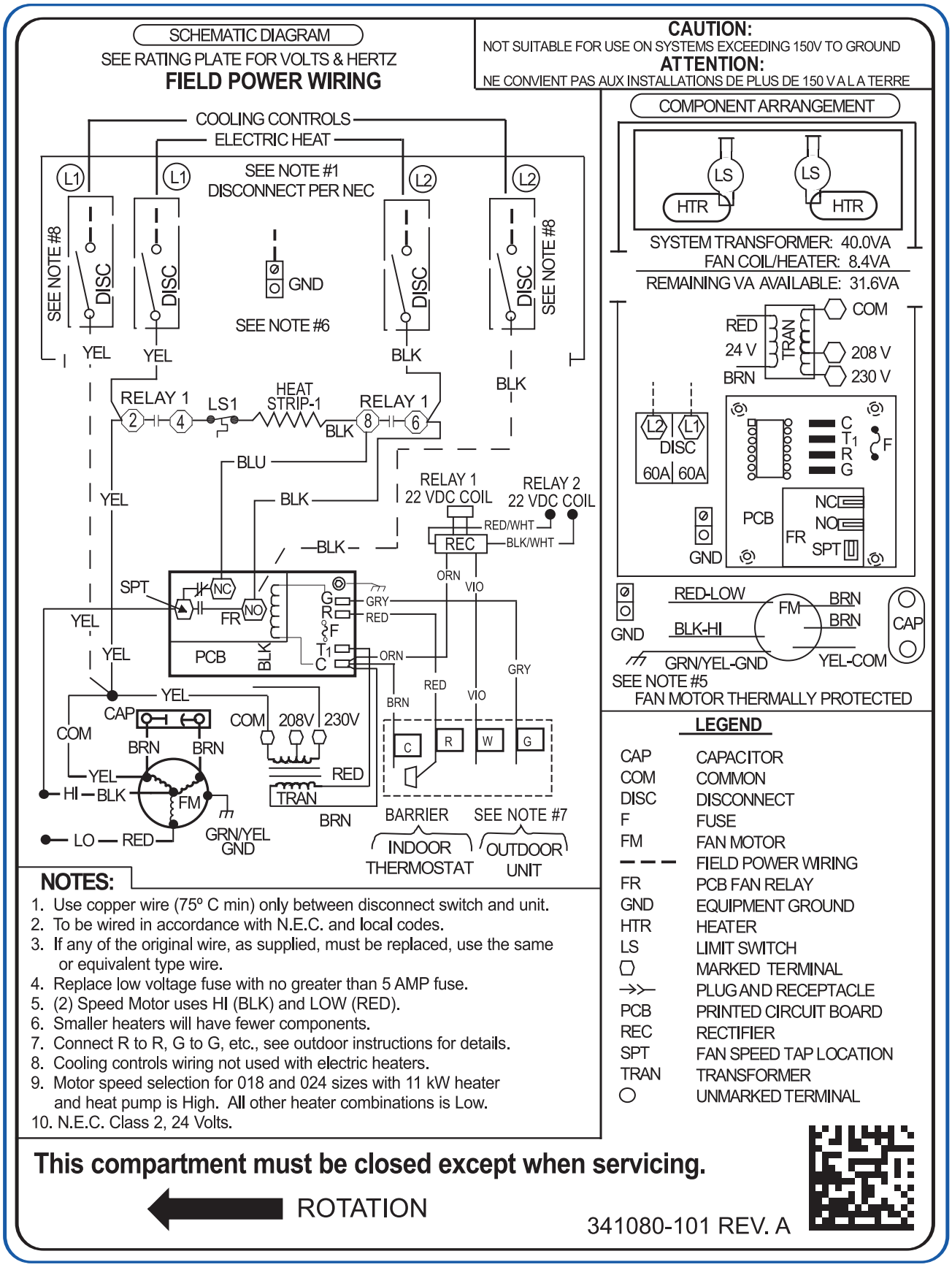
A12364

Fig. 16 - 336228-101



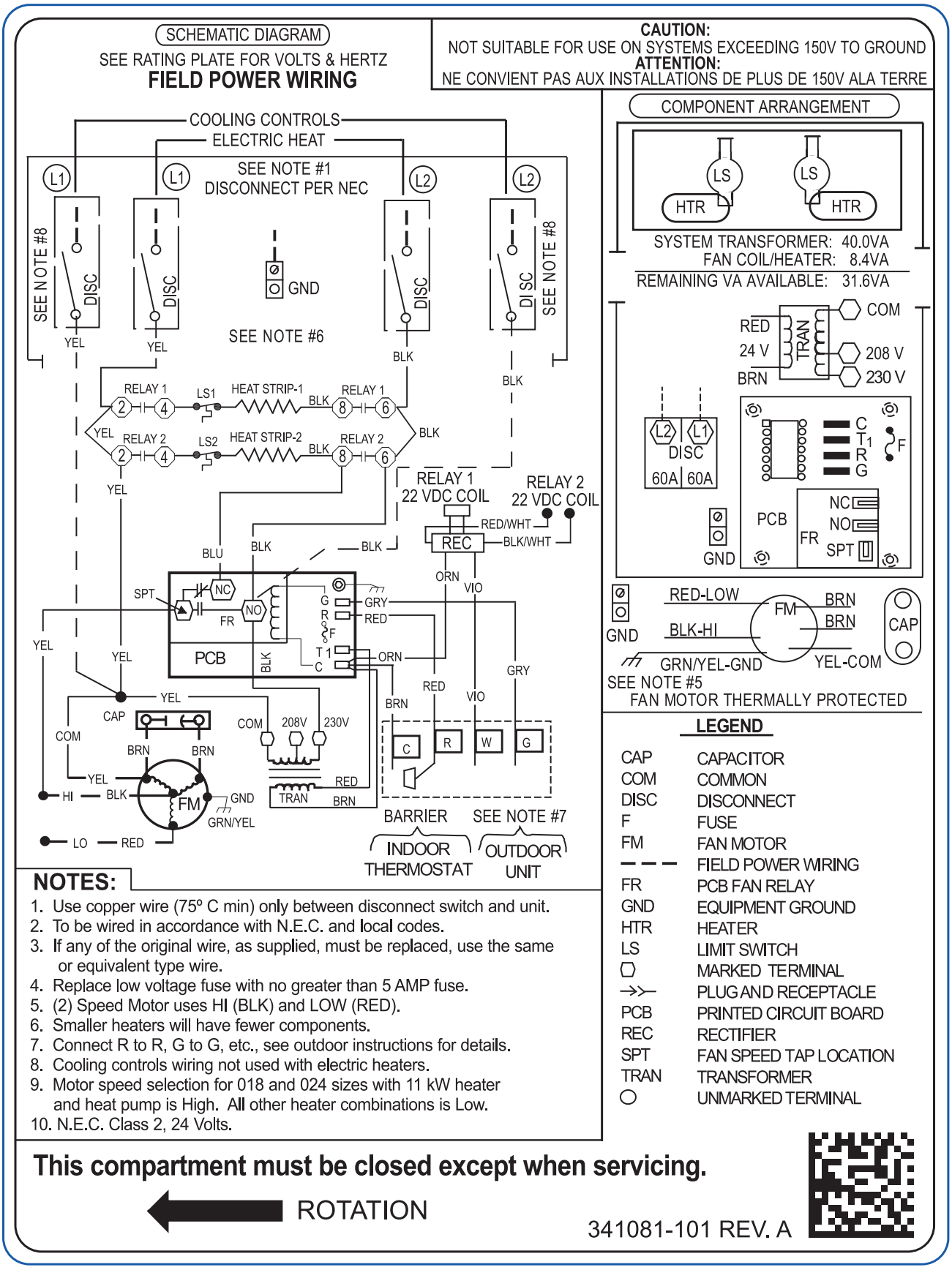
A12365

Fig. 17 - 337519-101



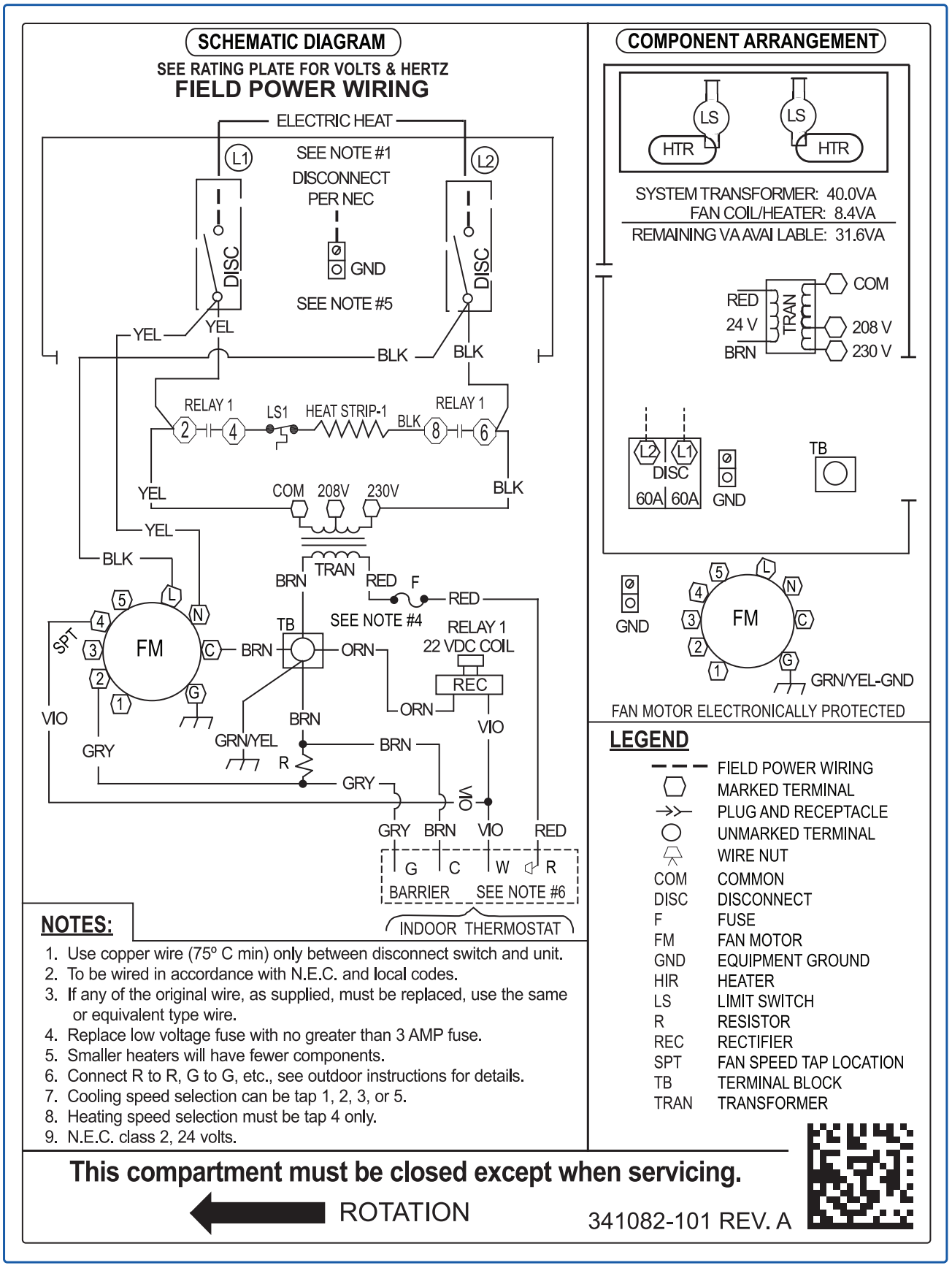
A150114

Fig. 18 - 341080-101



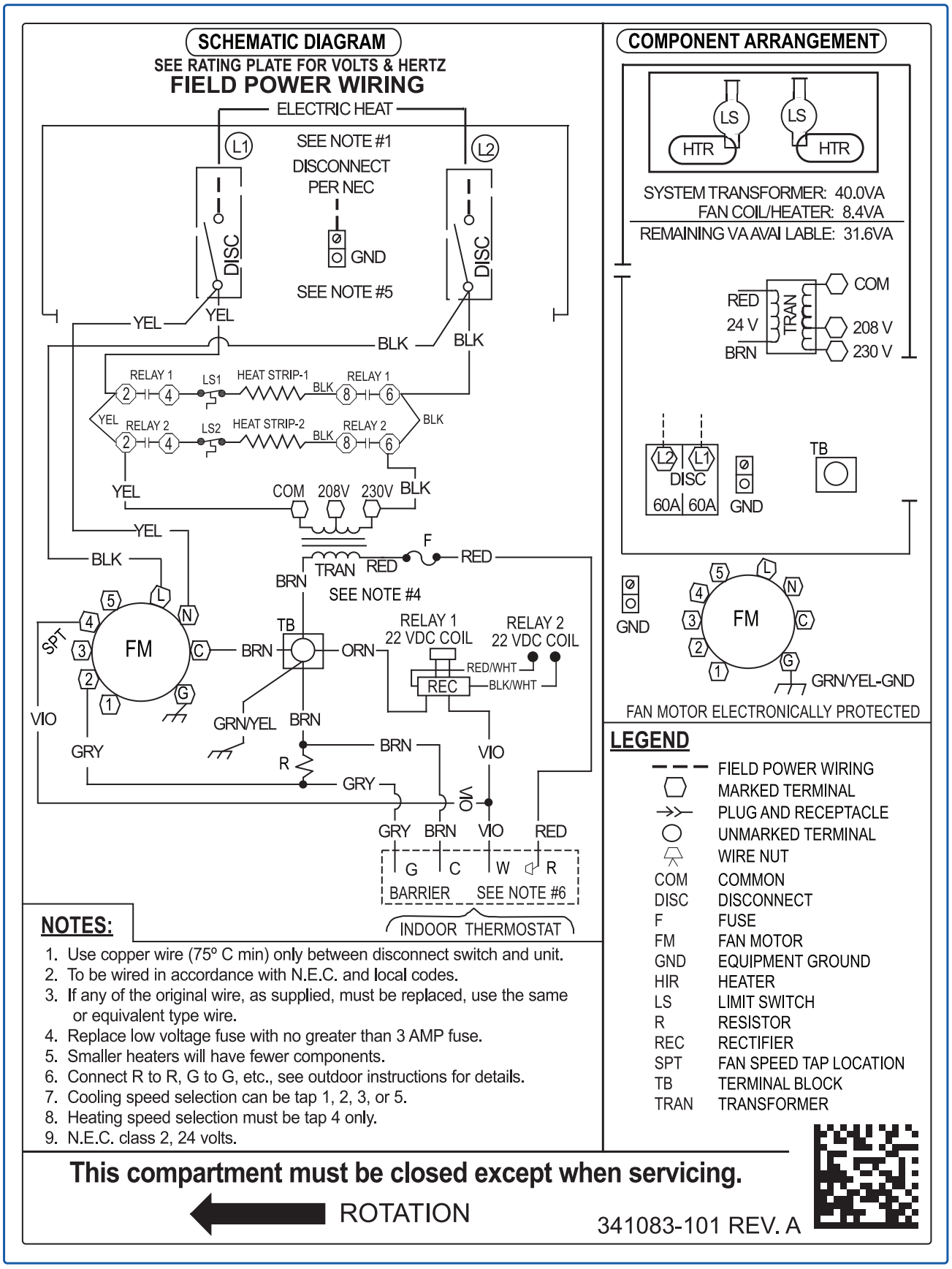
A150115

Fig. 19 - 341081-101



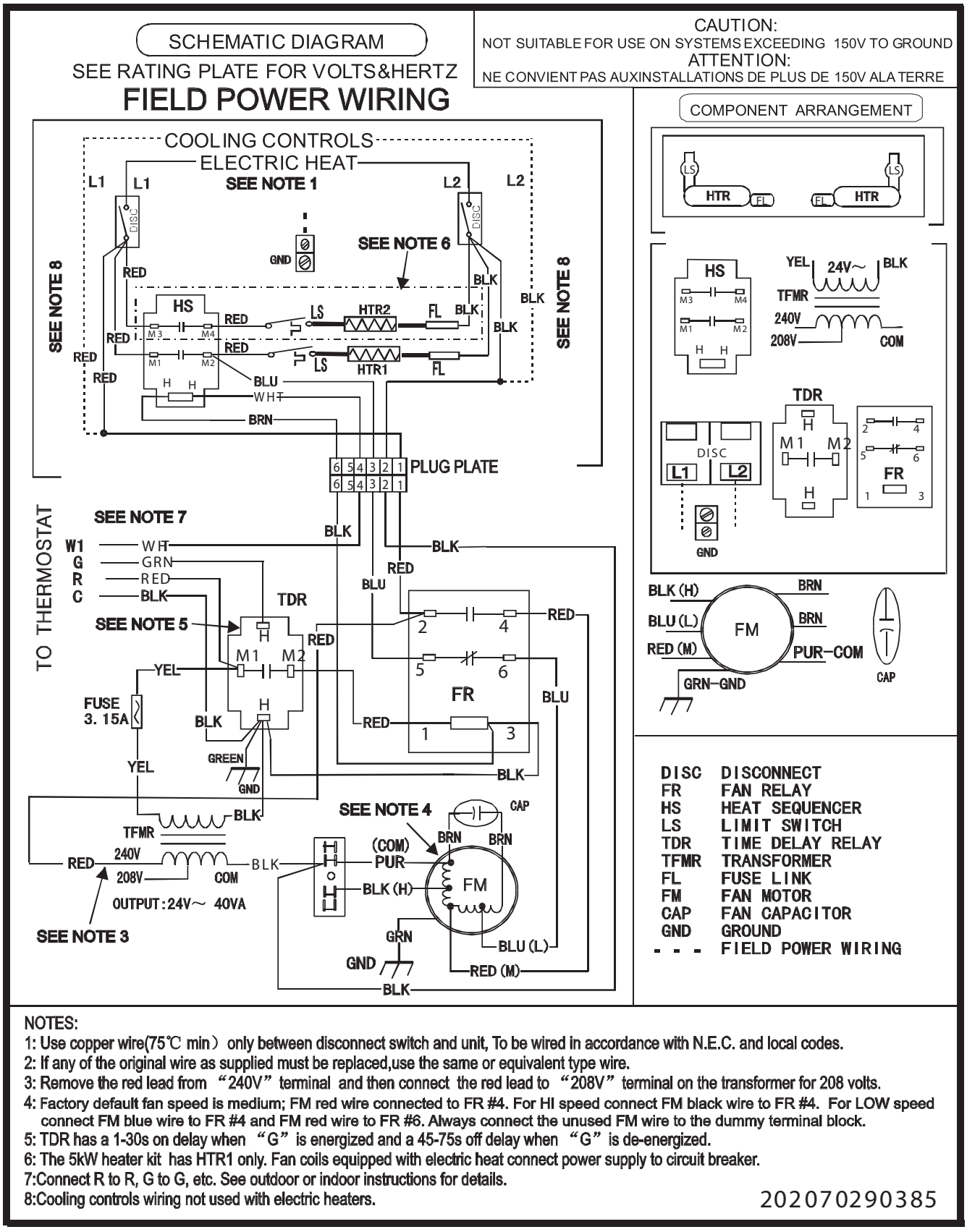
A150116

Fig. 20 - 341082-101



A150117

Fig. 21 - 341083-101



NOTES:

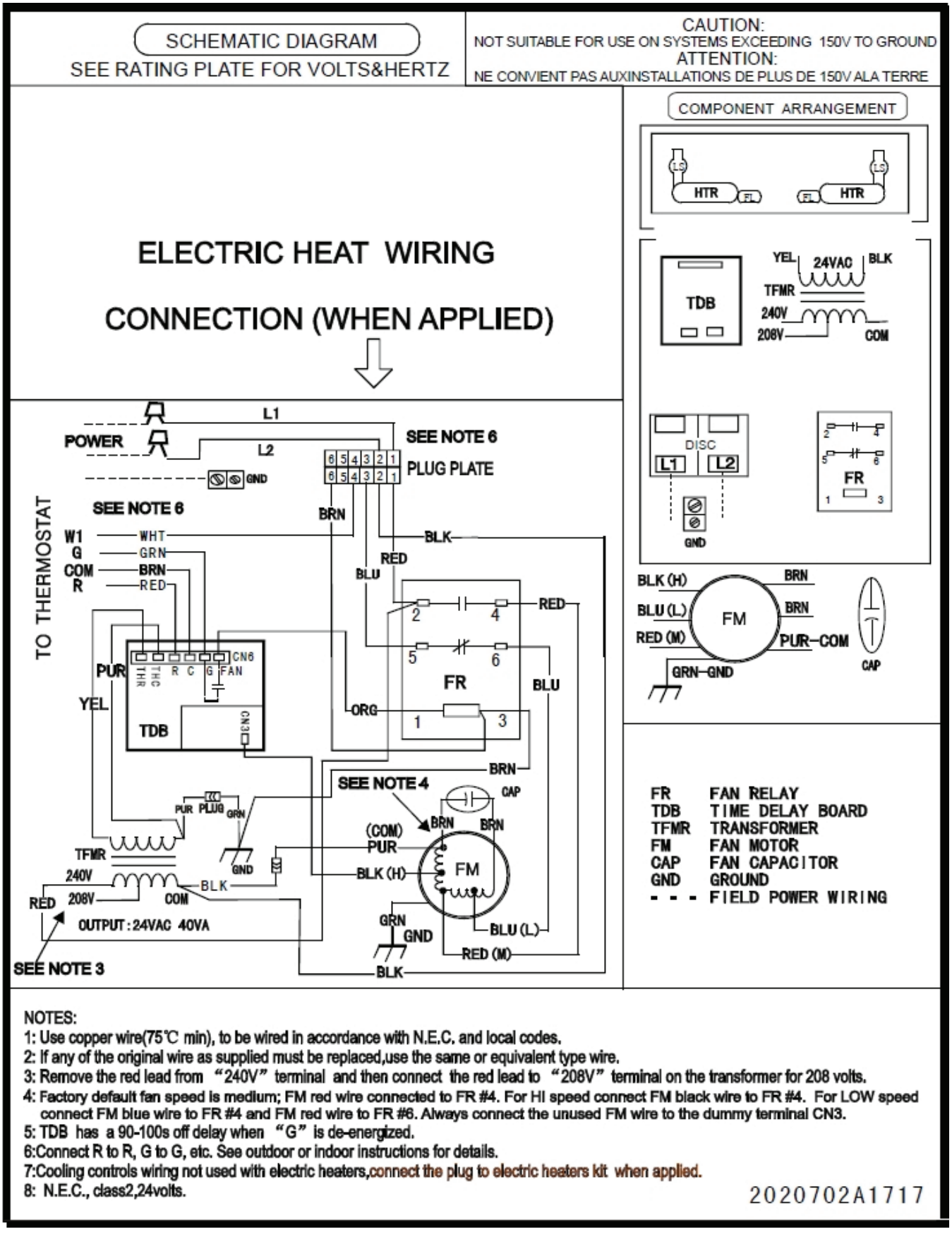
1: Use copper wire(75℃ min） only between disconnect switch and unit, To be wired in accordance with N.E.C. and local codes.
2: If any of the original wire as supplied must be replaced,use the same or equivalent type wire.
3: Remove the red lead from “240V” terminal and then connect the red lead to “208V” 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

A13131

Fig. 22 - FFMANP(018,024,030,036 and EHK2 Electric Heaters with Sequencers

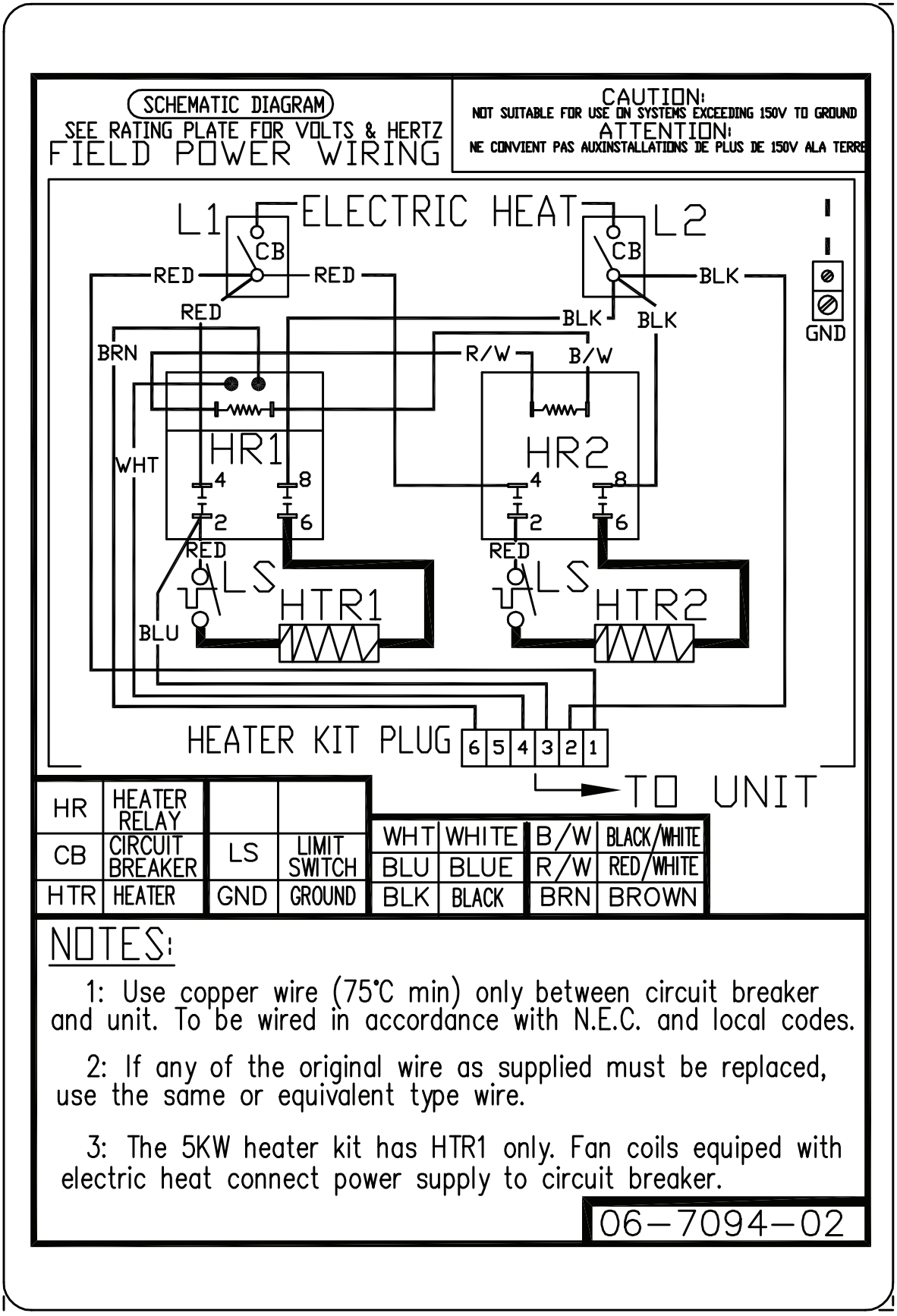
NOTE: Representative for FFMANP(018,024,030,036) prior to serial number date code 1715V



A150153

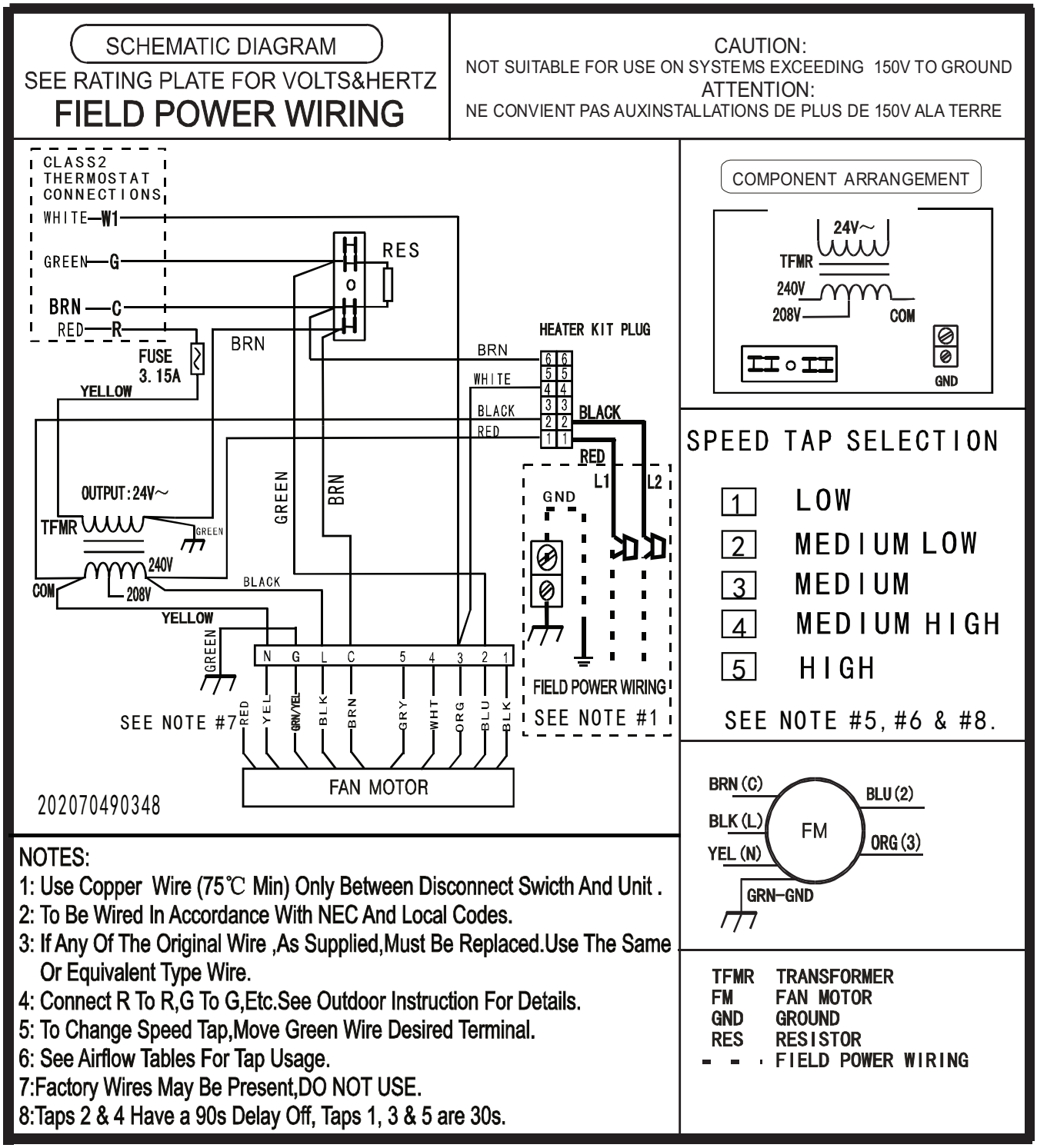
Fig. 23 - FFMANP(018,024,030,036 with PCB Time Delay

NOTE: Representative for FFMANP(018,024,030,036) serial number date code 1715V and later.



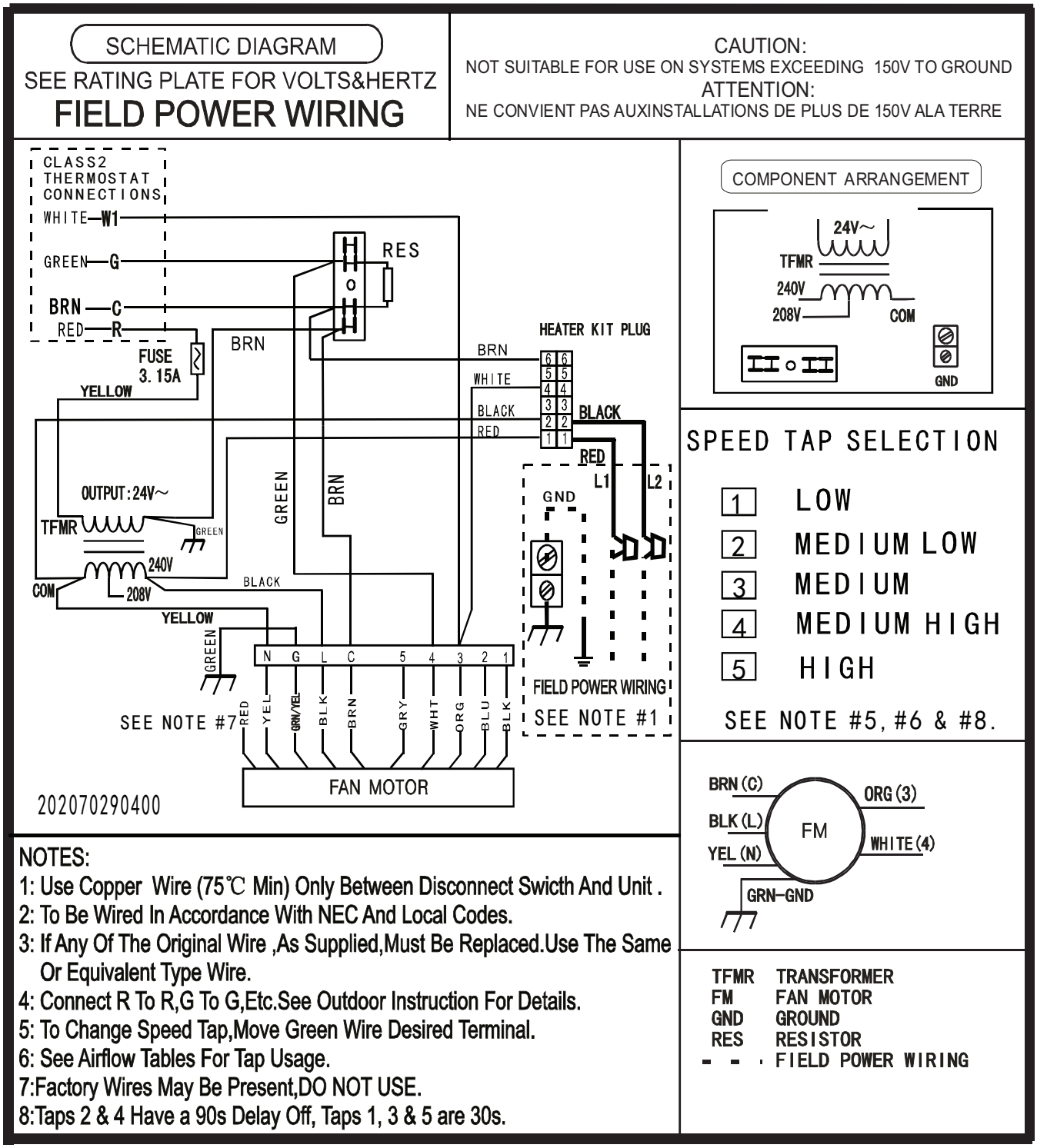
A150100

Fig. 24 - EHK2 With Heater Relays



A14323

Fig. 25 - FFMANP(019, 031)



A14324

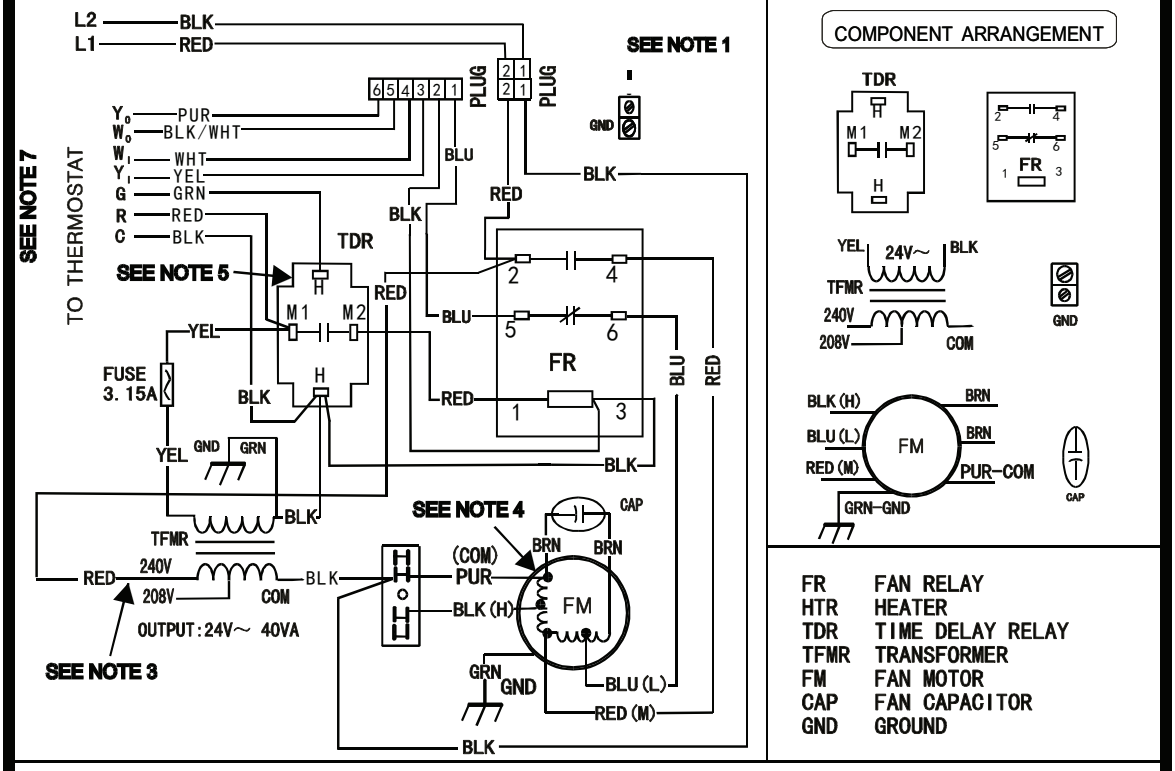
Fig. 26 - FFMANP(025, 037)

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 AUXINSTALLATIONS DE PLUS DE 150V ALA TERRE



FR	FAN RELAY
HTR	HEATER
TDR	TIME DELAY RELAY
TFMR	TRANSFORMER
FM	FAN MOTOR
CAP	FAN CAPACITOR
GND	GROUND

NOTES:

1: Use copper wire(75℃ 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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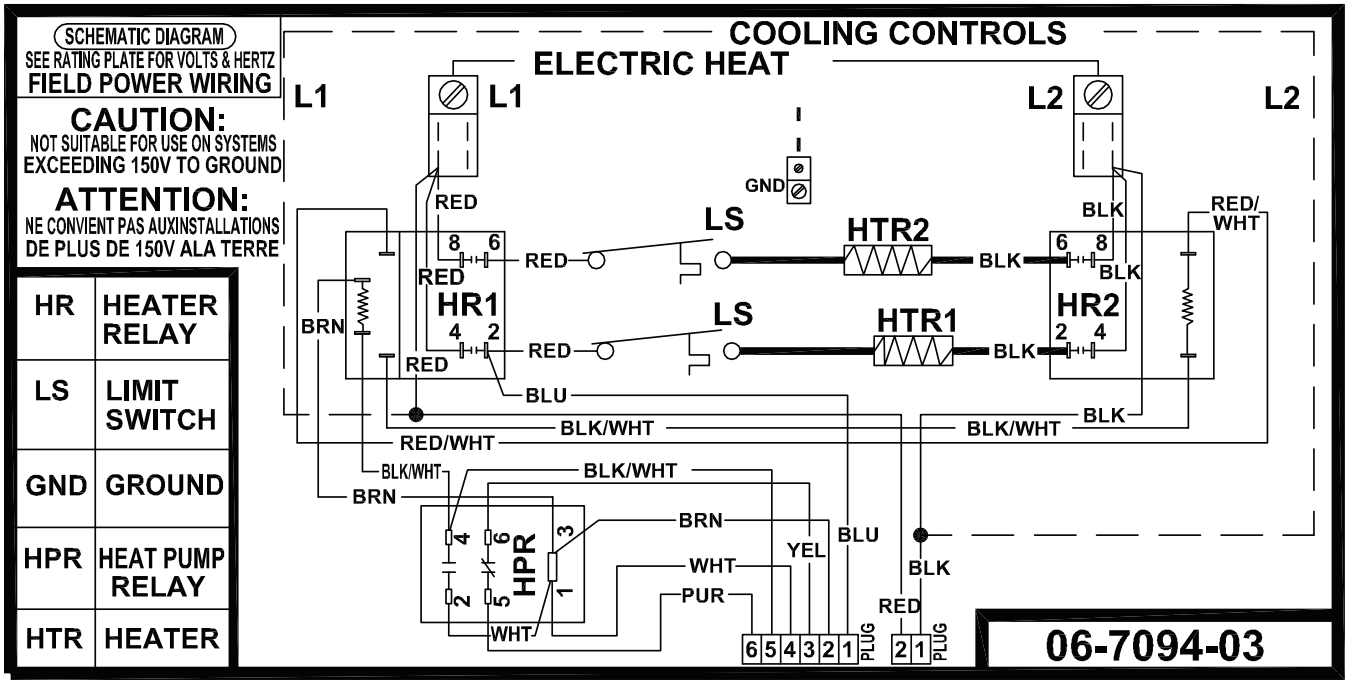
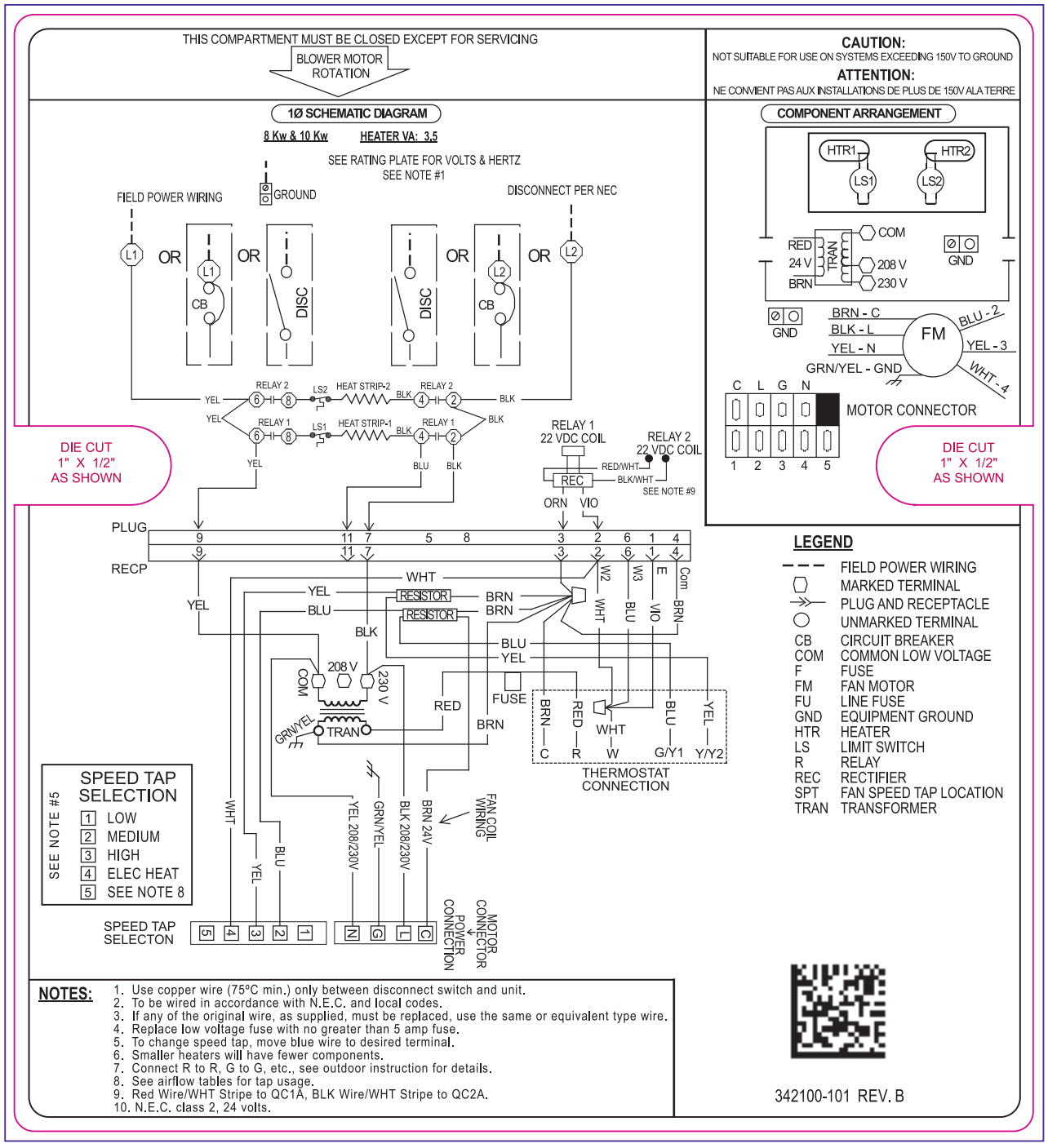
A14325

Fig. 27 - FPM(A,B)N(U,C)



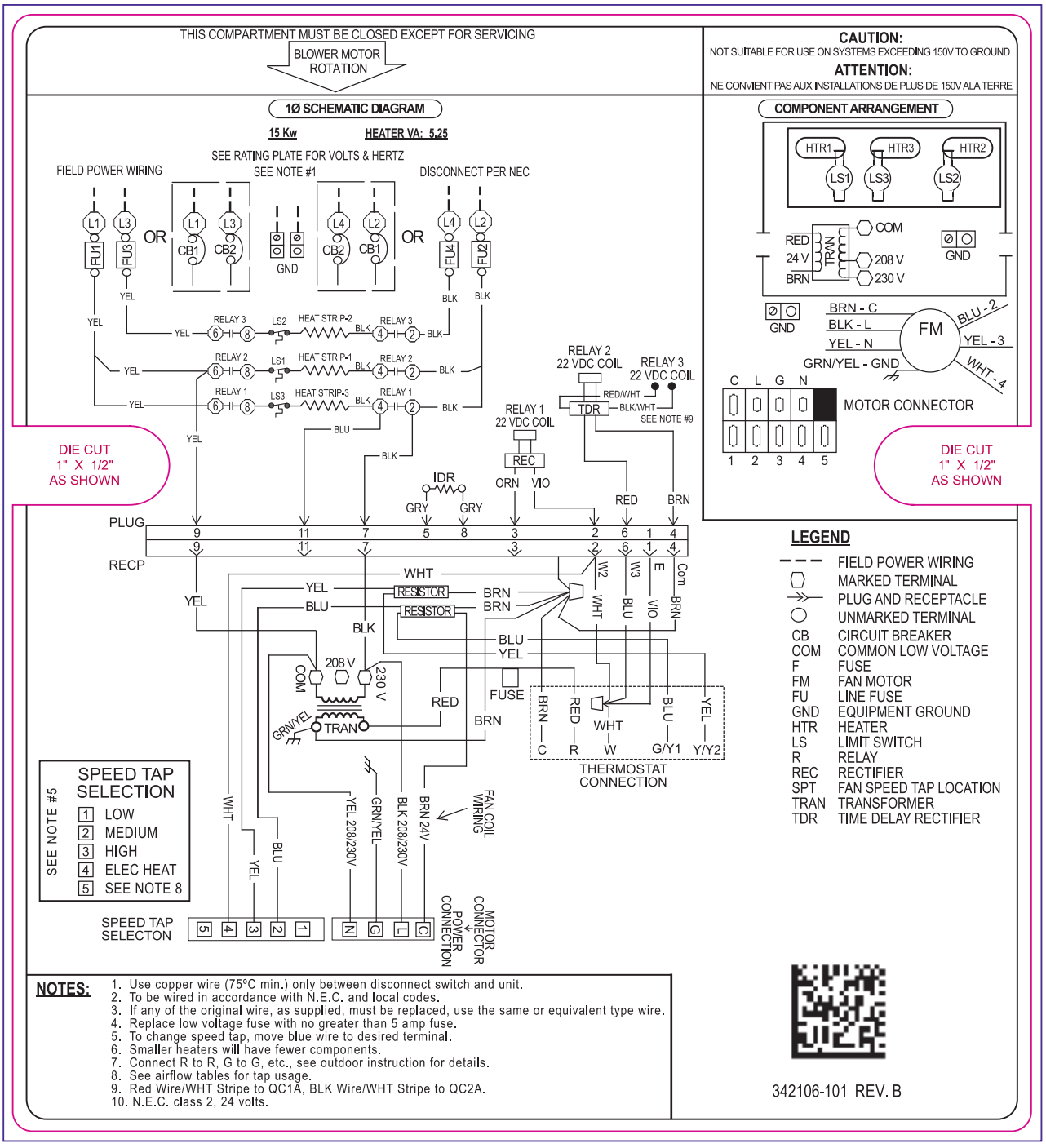
A150101

Fig. 28 - EHK3 With Heater Relays



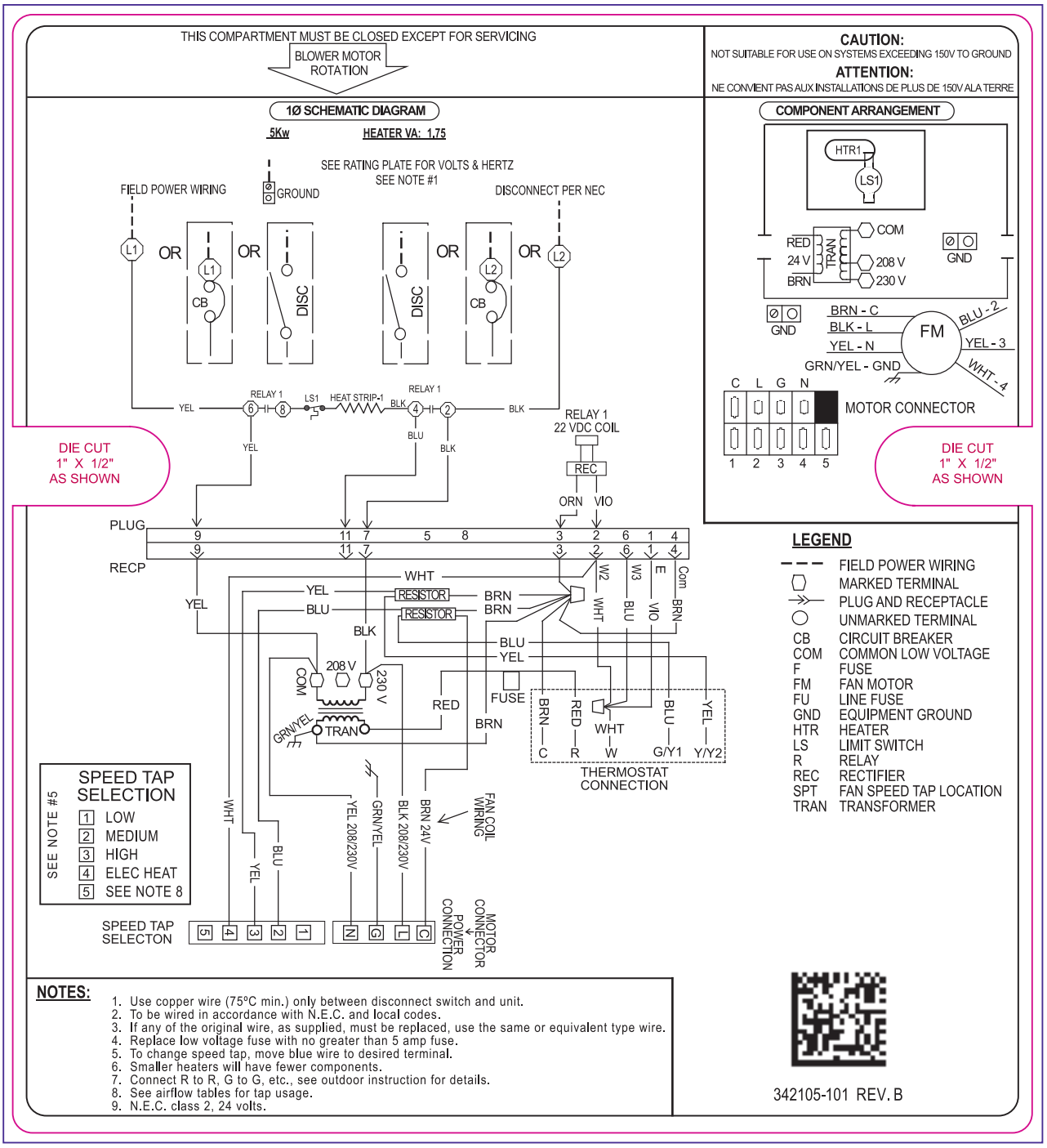
A160029

Fig. 29 - FZ4A



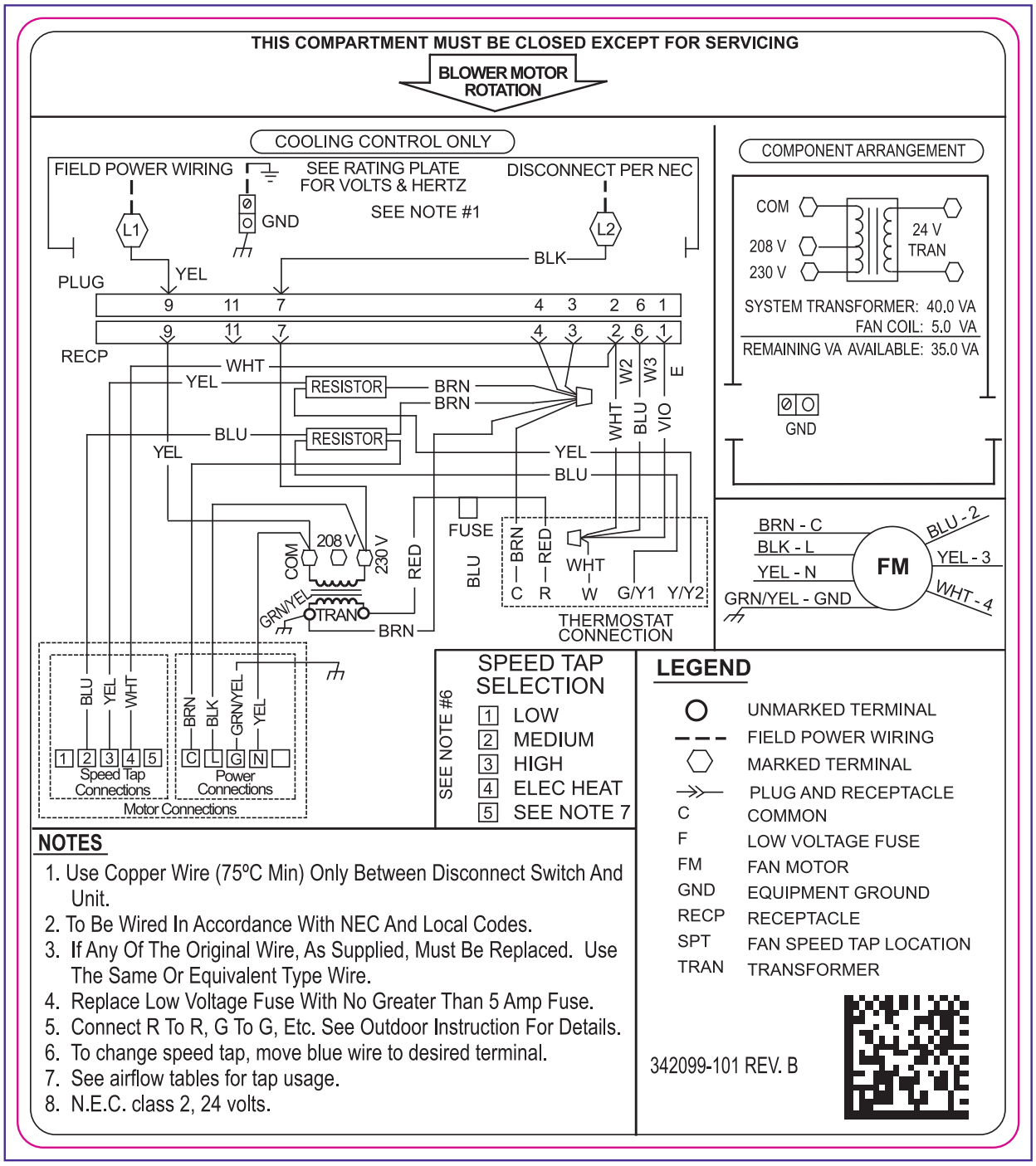
A160030

Fig. 30 - FZ4A



A160031

Fig. 31 - FZ4A



A160032

Fig. 32 - FZ4A

Edition Date: 03/16

Catalog No: WD–FANCOIL–05

Replaces: WD–FANCOIL–04