

P. APPENDICES

Appendix G – Refrigerant Charging Charts (Cont.)

SYSTEM CHARGE CHART – REFRIGERANT R-454B

(-)GECYB

SUB COOLING REQUIREMENTS – FINAL CHARGE VERIFICATION

OUTDOOR DRY BULB (°F)	3 –TON	4 –TON	5 –TON	6 –TON
	SUBCOOLING (°F)			
115	13	13	14	15
105	13	12	12	12
95	12	9	9	11
85	12	7	9	7
75	12	5	6	5
65	12	5	3	3
55	12	4	2	3

(-)GECYB WITH REHEAT

SUB COOLING REQUIREMENTS – FINAL CHARGE VERIFICATION

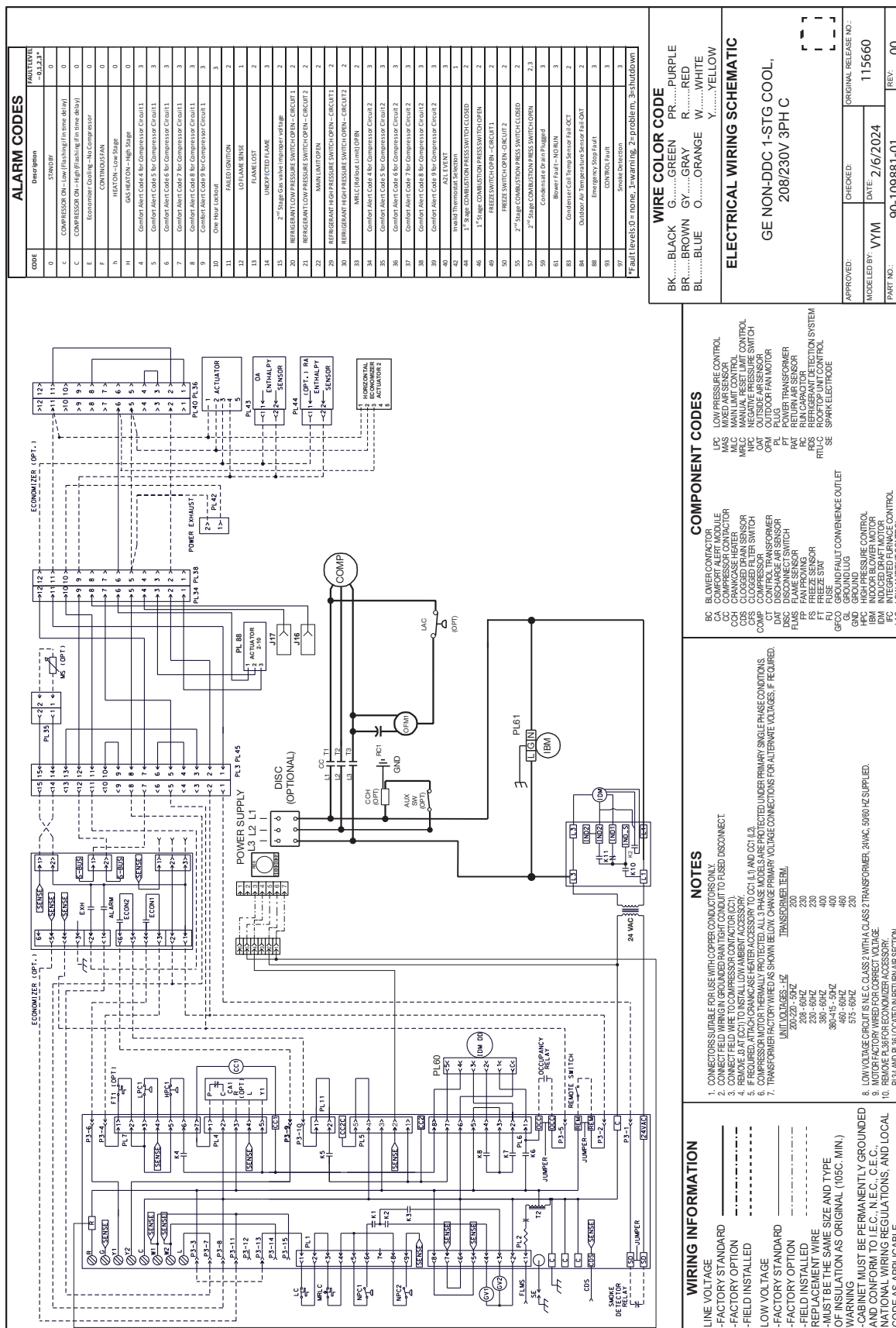
OUTDOOR DRY BULB (°F)	3 –TON	4 –TON	5 –TON	6 –TON
	SUBCOOLING (°F)			
115	14	13	18	20
105	13	10	15	18
95	13	8	12	16
85	12	5	10	15
75	11	4	9	14
65	10	3	8	12
55	9	3	5	10

Charge verification instructions:

1. Allow the unit to operate for 15 minutes before checking or adjusting the charge.
2. Ensure that the contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
3. Ensure that the unit is properly grounded.
4. Return air temperature must be within comfort conditions (72°F – 82°F).
5. Remove caps from the high-side and low-side pressure service fittings.
6. Cylinders shall be kept in an upright position for the entirety of the testing and charging procedure
7. Record the following measurements:
 - a. High-side pressure at service fitting
 - b. Liquid line temperature
8. Using R-454B refrigerant saturation T-P tables, find the corresponding refrigerant saturation temperature relative to the measured high-side pressure
9. To determine subcooling, subtract the liquid line temperature measured in Step 7 from the saturation temperature found in Step 8.
10. Compare the subcooling result from Step 9 to the subcooling table located on the unit or in the I&O manual.
11. If the subcooling value from Step 9 is more than 1°F above the value listed in the subcooling table, remove charge to match the value listed in the table, $\pm 0.5^\circ\text{F}$.
 - a. Take extreme care not to overfill the refrigerating system.
2. If the subcooling value from Step 9 is more than 1°F below the value listed in the subcooling table, add charge to match the value listed in the table, $\pm 0.5^\circ\text{F}$.
 - a. Take extreme care not to overfill the refrigerating system.



Appendix H – Wiring Diagrams & Schematics (Cont.)

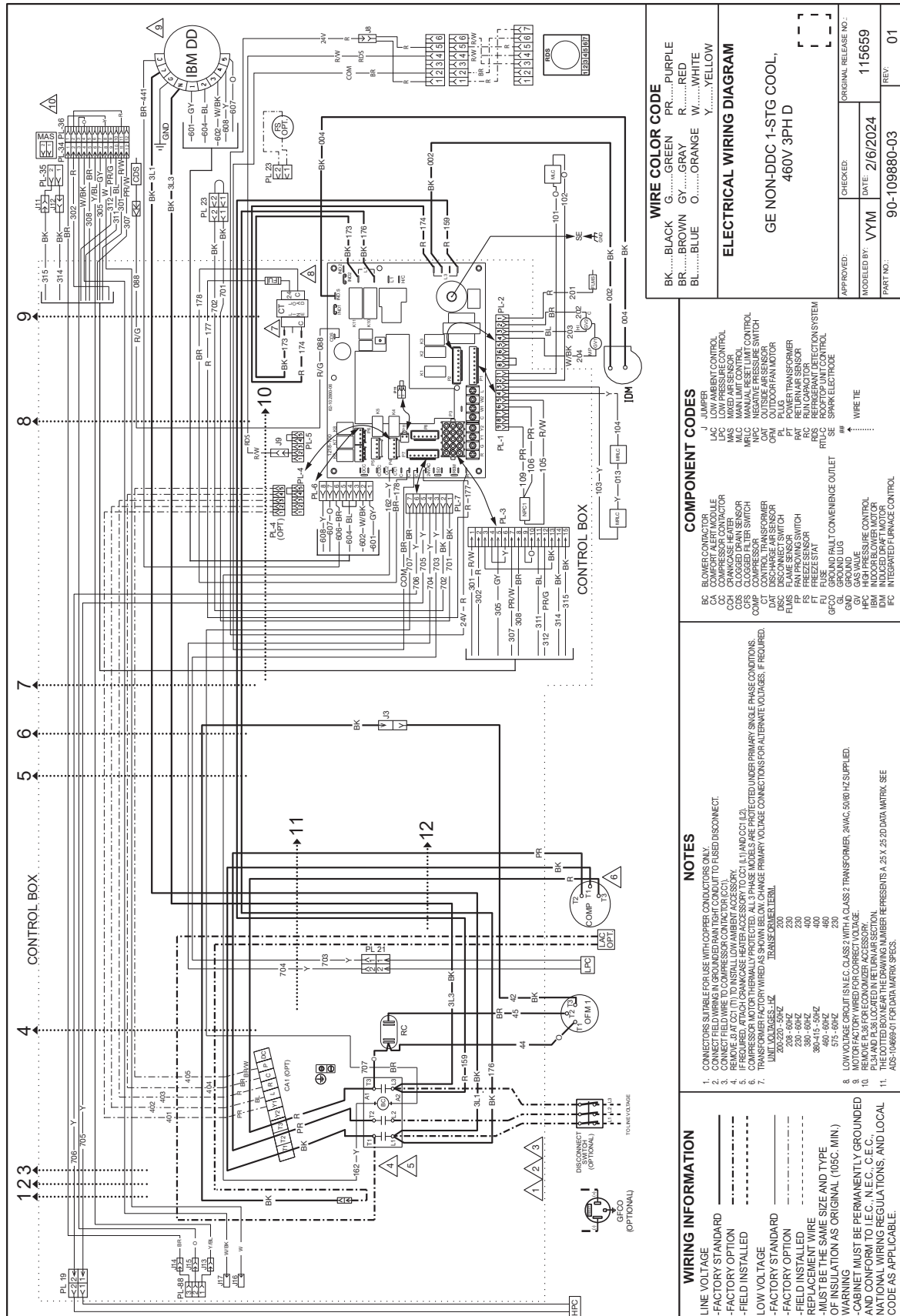




Appendix H – Wiring Diagrams & Schematics (Cont.)



Appendix H – Wiring Diagrams & Schematics (Cont.)



Appendix H – Wiring Diagrams & Schematics (Cont.)





Appendix H – Wiring Diagrams & Schematics (Cont.)

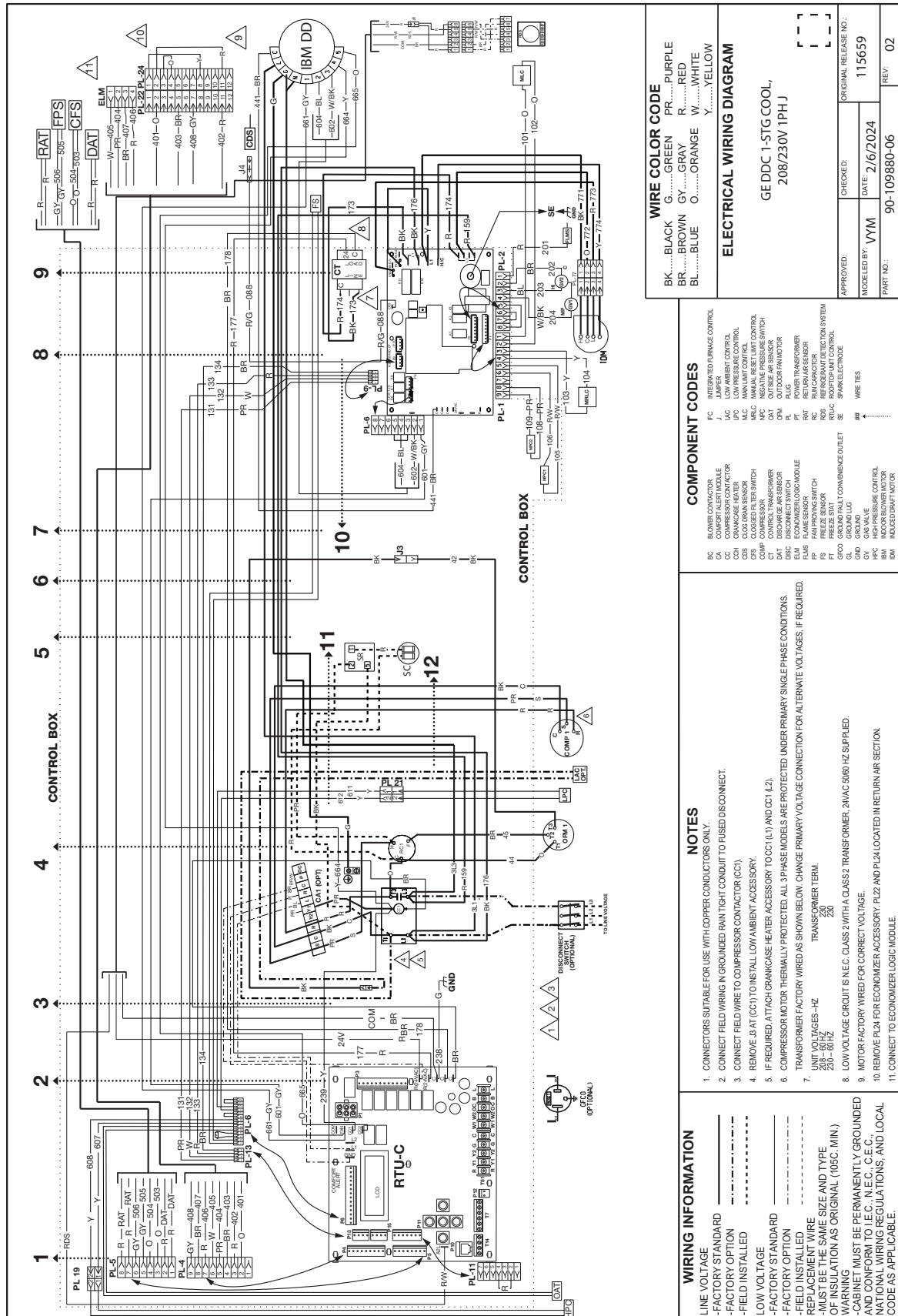




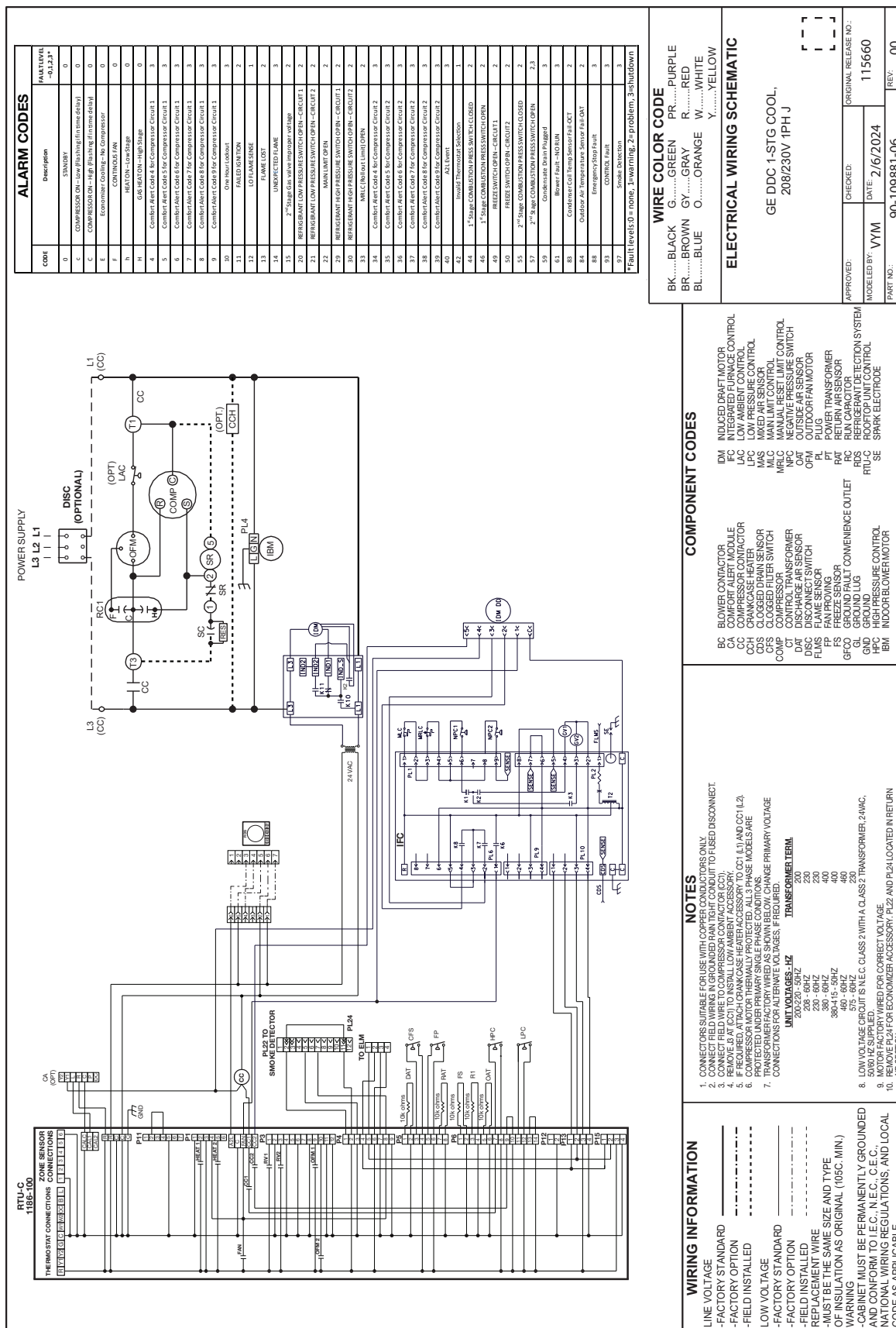
Appendix H – Wiring Diagrams & Schematics (Cont.)



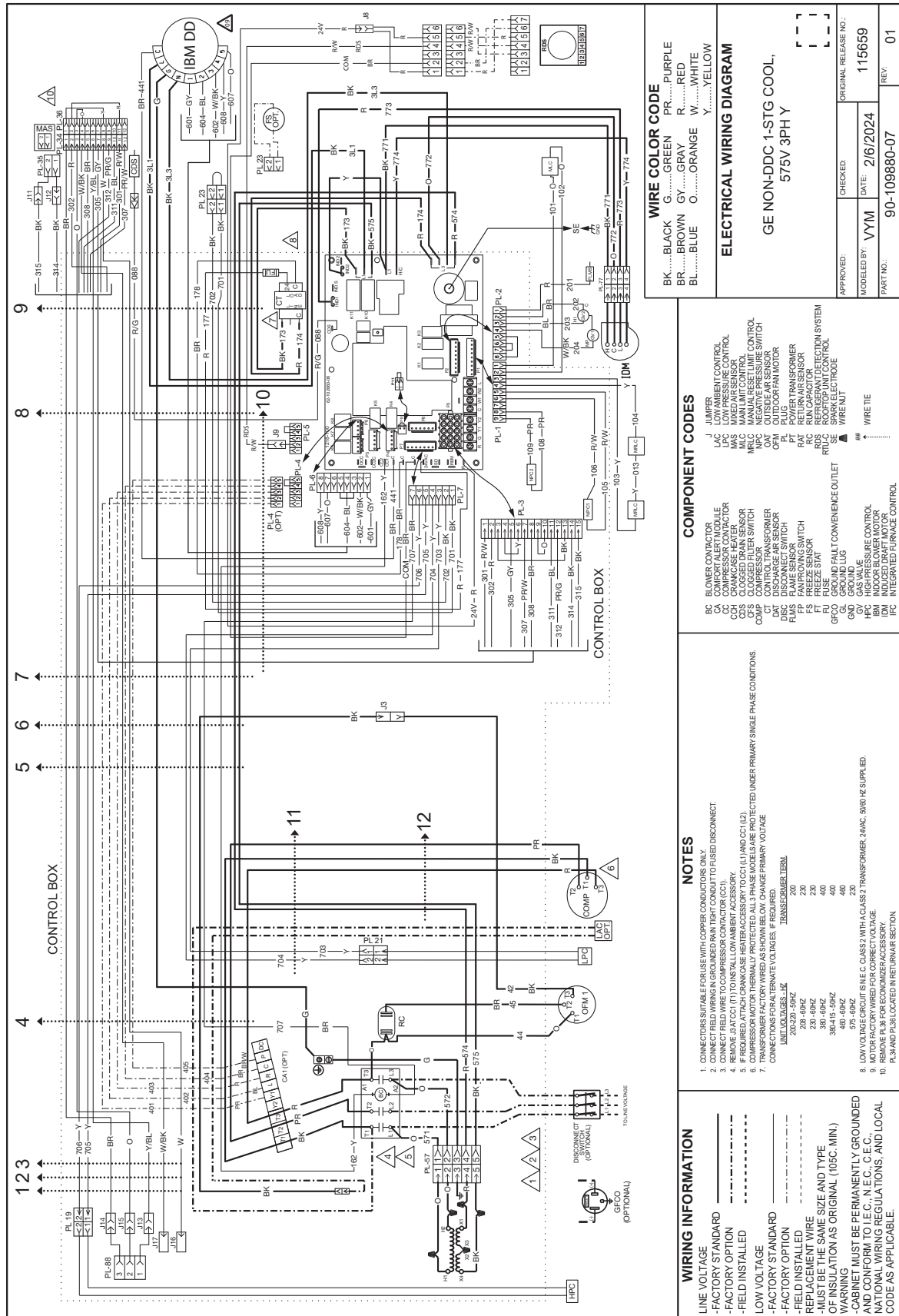
Appendix H – Wiring Diagrams & Schematics (Cont.)



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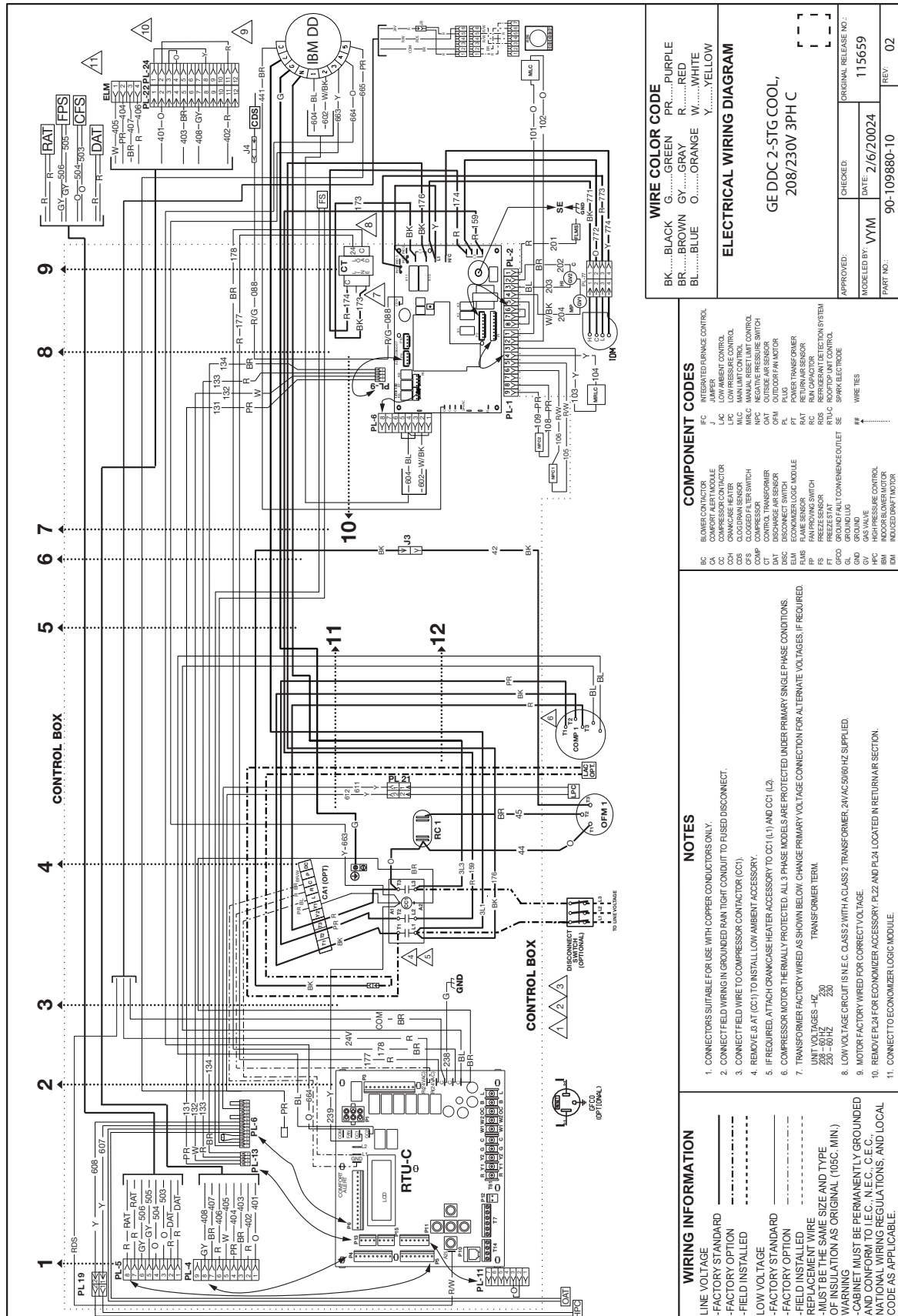




Appendix H – Wiring Diagrams & Schematics (Cont.)



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