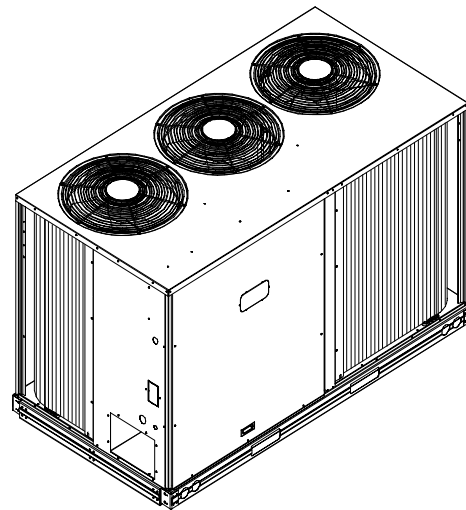
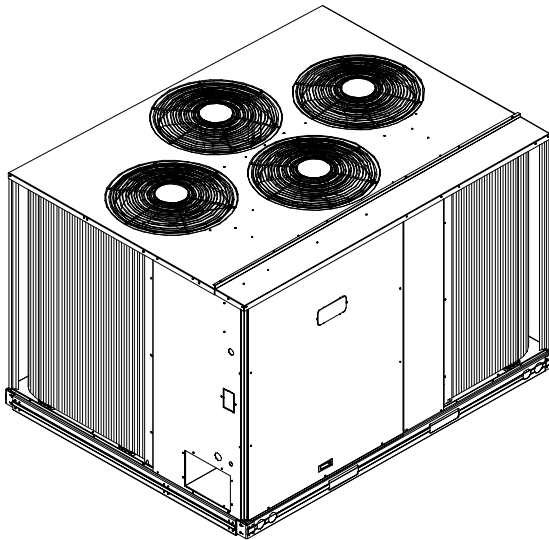
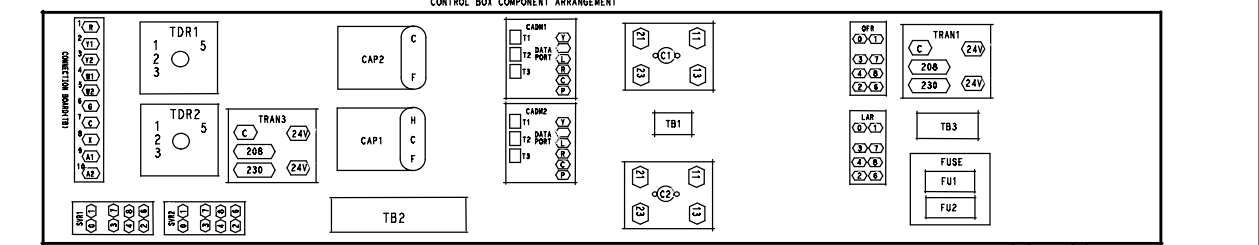
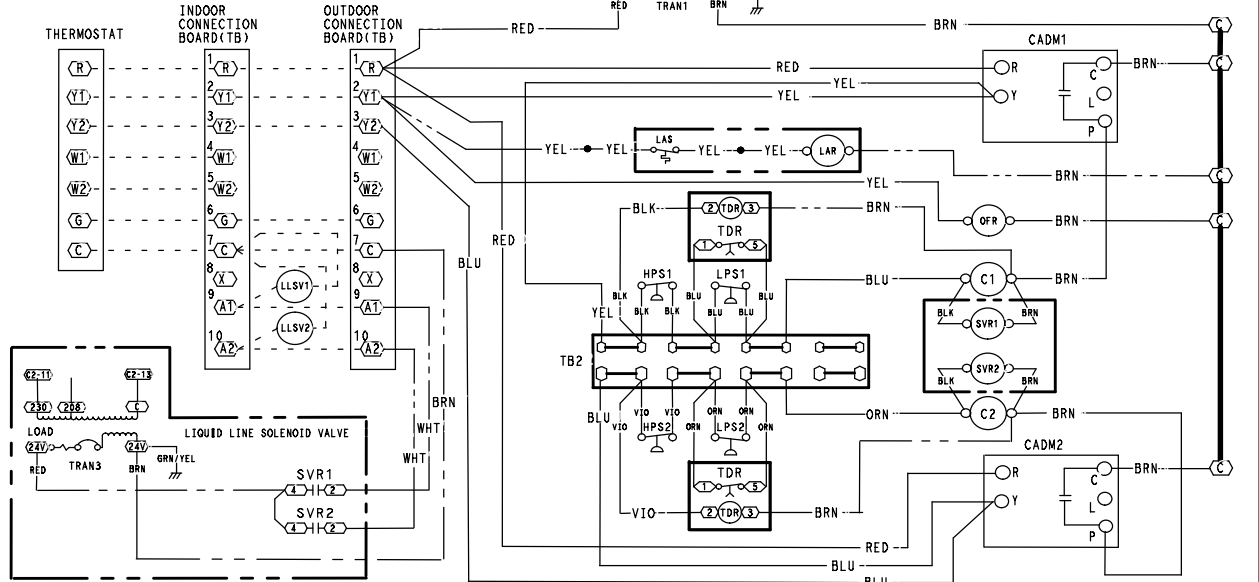
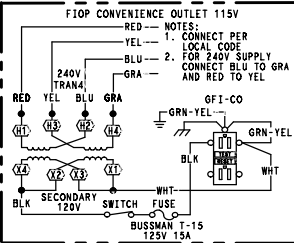
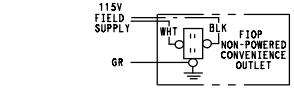
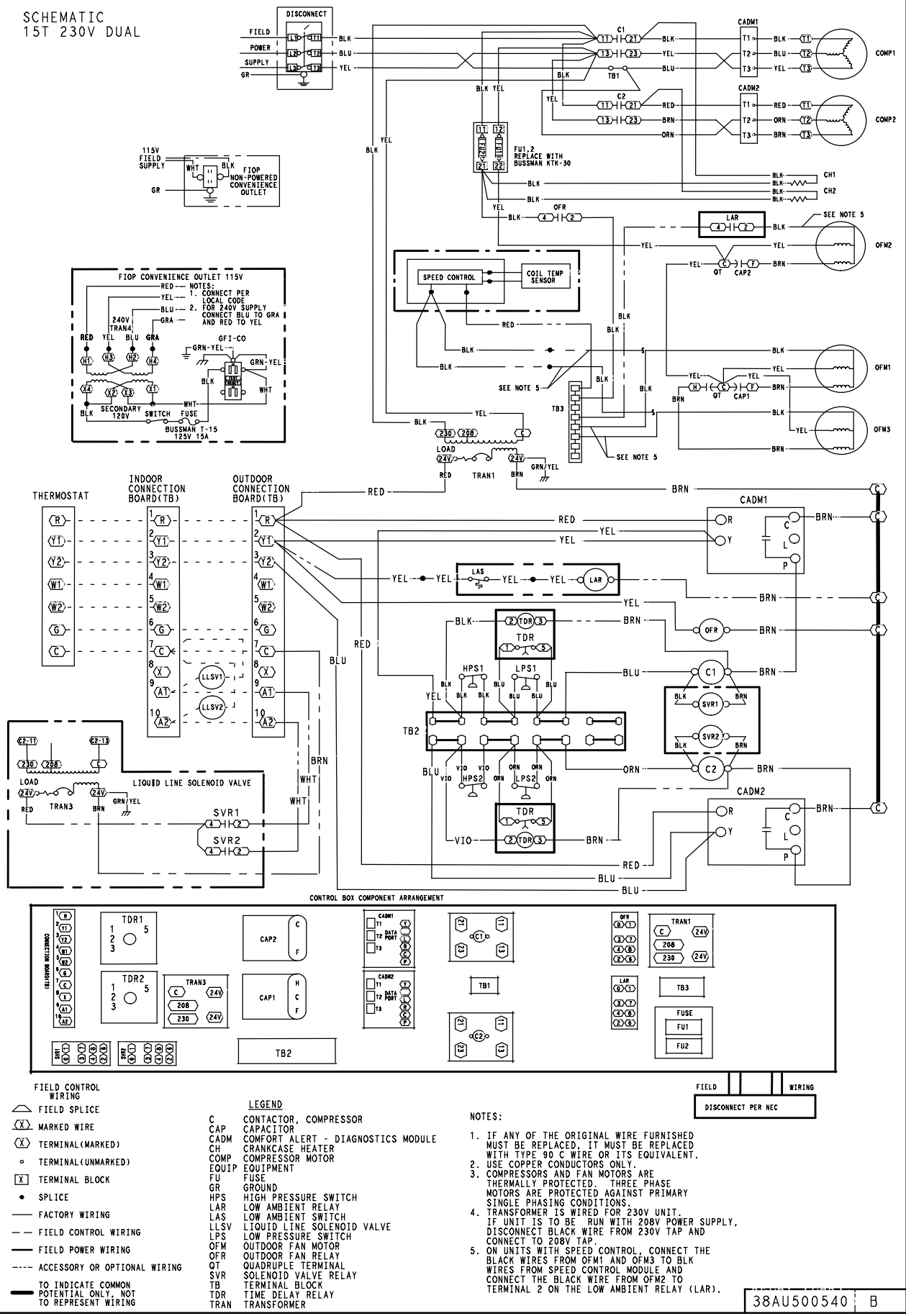


Wiring Diagrams
CAS180 – 241
R-410A SPLIT SYSTEM
A/C UNITS



CAS180 208 / 230 - 3 - 60

SCHEMATIC
15T 230V DUAL



- FIELD CONTROL WIRING**
- (X) FIELD SPlice
 - (X) MARKED WIRE
 - (X) TERMINAL (MARKED)
 - TERMINAL (UNMARKED)
 - (X) TERMINAL BLOCK
 - SPlice
 - FACTORY WIRING
 - - - FIELD CONTROL WIRING
 - FIELD POWER WIRING
 - - - ACCESSORY OR OPTIONAL WIRING
 - TO INDICATE COMMON POTENTIAL ONLY, NOT TO REPRESENT WIRING

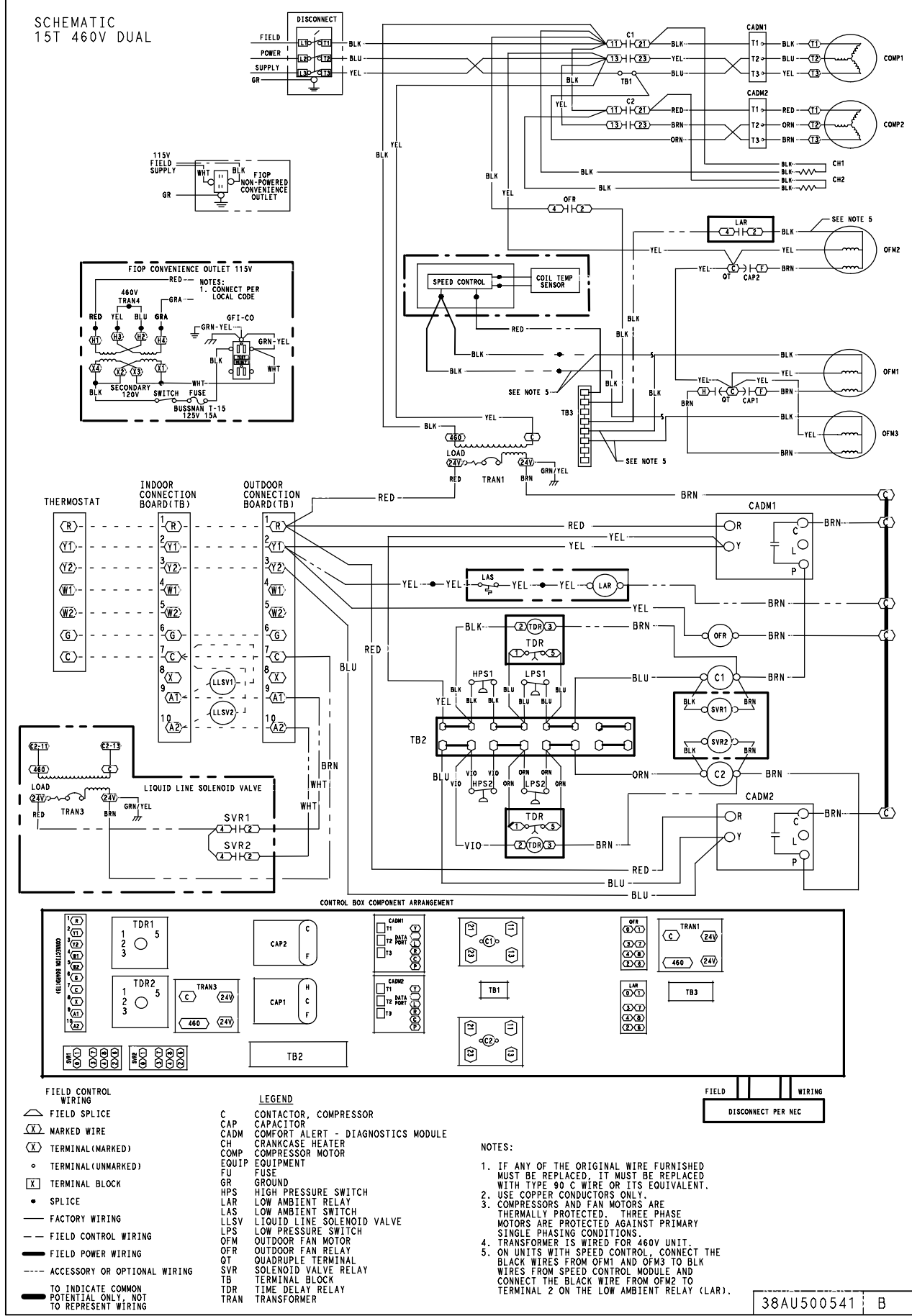
- LEGEND**
- C CONTACTOR, COMPRESSOR
 - CAP CAPACITOR
 - CADM1 COMFORT ALERT - DIAGNOSTICS MODULE
 - CH CRANKCASE HEATER
 - COMP COMPRESSOR MOTOR
 - EQUIP EQUIPMENT
 - FU FUSE
 - GR GROUND
 - HPS HIGH PRESSURE SWITCH
 - LAR LOW AMBIENT RELAY
 - LAS LOW AMBIENT SWITCH
 - LLSV LIQUID LINE SOLENOID VALVE
 - LPS LOW PRESSURE SWITCH
 - OFM1 OUTDOOR FAN MOTOR
 - OFR OUTDOOR FAN RELAY
 - OT QUADRUPLE TERMINAL
 - SVR SOLENOID VALVE RELAY
 - TB TERMINAL BLOCK
 - TDR TIME DELAY RELAY
 - TRAN TRANSFORMER

- NOTES:**
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
 2. USE COPPER CONDUCTORS ONLY.
 3. COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
 4. TRANSFORMER IS WIRED FOR 230V UNIT. IF UNIT IS TO BE RUN WITH 208V POWER SUPPLY, DISCONNECT BLACK WIRE FROM 230V TAP AND CONNECT TO 208V TAP.
 5. ON UNITS WITH SPEED CONTROL, CONNECT THE BLACK WIRES FROM OFM1 AND OFM3 TO BLK WIRES FROM SPEED CONTROL MODULE AND CONNECT THE BLACK WIRE FROM OFM2 TO TERMINAL 2 ON THE LOW AMBIENT RELAY (LAR).

38AU500540 B

CAS180 460 - 3 - 60

SCHEMATIC
15T 460V DUAL



FIELD CONTROL WIRING

- △ FIELD SPICE
- ⊗ MARKED WIRE
- ⊗ TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- ⊠ TERMINAL BLOCK
- SPICE
- FACTORY WIRING
- FIELD CONTROL WIRING
- FIELD POWER WIRING
- ACCESSORY OR OPTIONAL WIRING
- TO INDICATE COMMON POTENTIAL ONLY, NOT TO REPRESENT WIRING

LEGEND

- C CONTACTOR, COMPRESSOR
- CAP CAPACITOR
- CADM COMFORT ALERT - DIAGNOSTICS MODULE
- CH CRANKCASE HEATER
- COMP COMPRESSOR MOTOR
- EQUIP EQUIPMENT
- FU FUSE
- GR GROUND
- HPS HIGH PRESSURE SWITCH
- LAR LOW AMBIENT RELAY
- LAS LOW AMBIENT SWITCH
- LLSV LIQUID LINE SOLENOID VALVE
- LPS LOW PRESSURE SWITCH
- OFM OUTDOOR FAN MOTOR
- OFR OUTDOOR FAN RELAY
- QT QUADRUPLE TERMINAL SOLENOID VALVE RELAY
- TB TERMINAL BLOCK
- TDR TIME DELAY RELAY
- TRAN TRANSFORMER

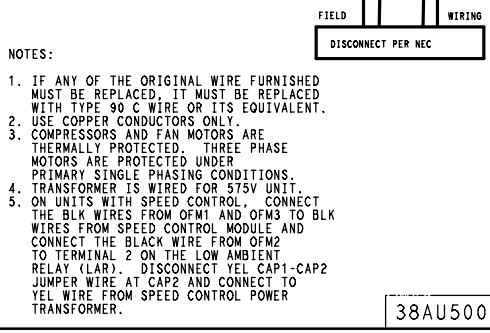
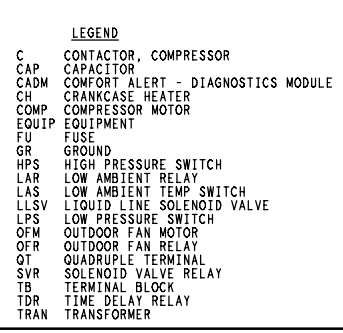
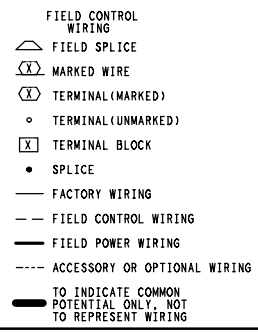
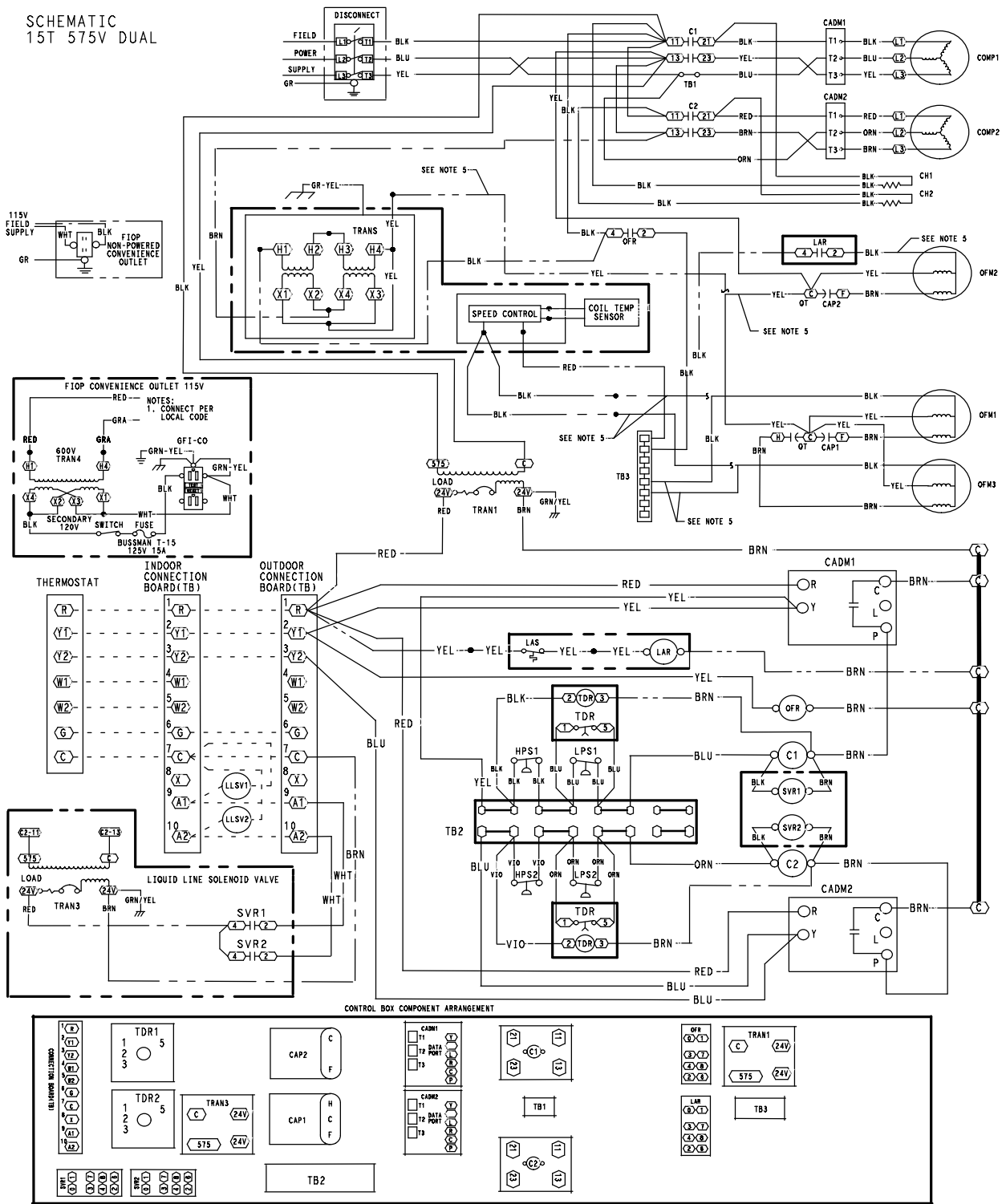
NOTES:

1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
2. USE COPPER CONDUCTORS ONLY.
3. COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
4. TRANSFORMER IS WIRED FOR 460V UNIT.
5. ON UNITS WITH SPEED CONTROL, CONNECT THE BLACK WIRES FROM OFM1 AND OFM3 TO BLK WIRES FROM SPEED CONTROL MODULE AND CONNECT THE BLACK WIRE FROM OFM2 TO TERMINAL 2 ON THE LOW AMBIENT RELAY (LAR).

38AU500541 B

CAS180 575 - 3 - 60

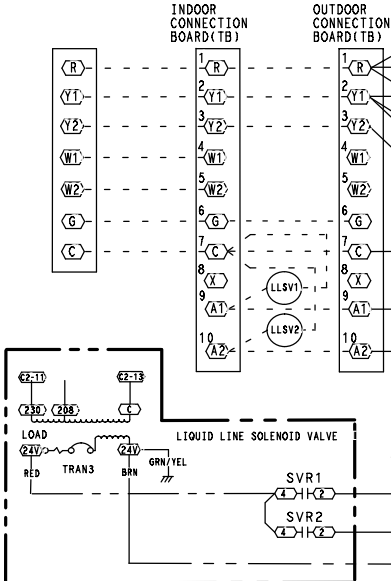
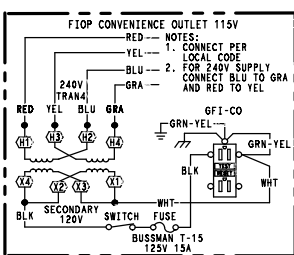
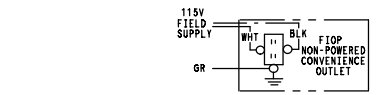
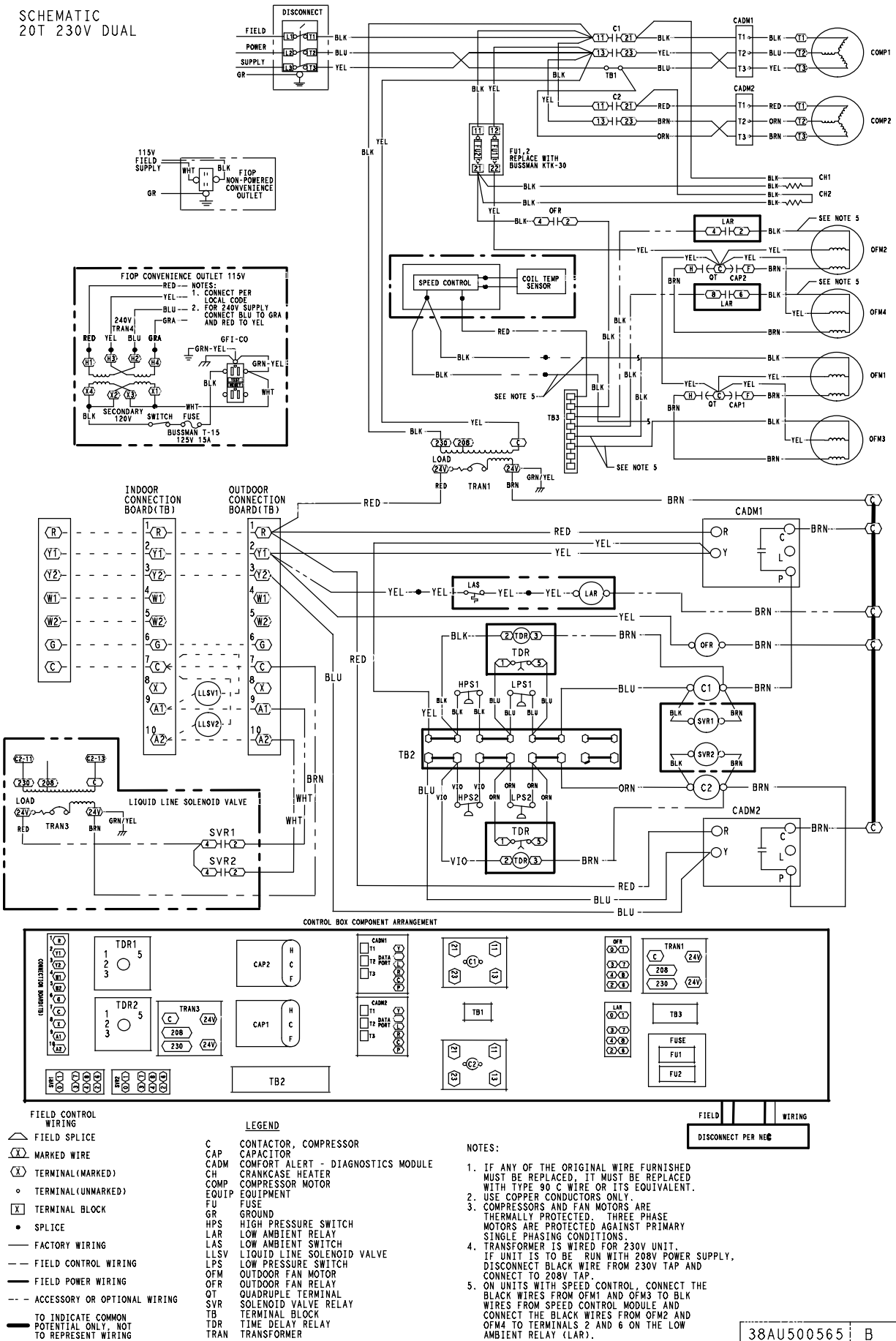
SCHEMATIC
15T 575V DUAL



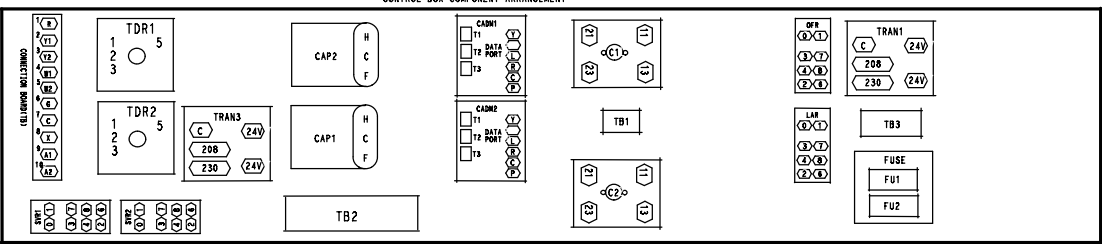
38AU500542 B

CAS240 208 / 230 - 3 - 60

SCHEMATIC
20T 230V DUAL



CONTROL BOX COMPONENT ARRANGEMENT



FIELD CONTROL WIRING
 △ FIELD SPLICE
 (X) MARKED WIRE
 (X) TERMINAL (MARKED)
 ○ TERMINAL (UNMARKED)
 [X] TERMINAL BLOCK
 • SPLICE
 — FACTORY WIRING
 - - - FIELD CONTROL WIRING
 — FIELD POWER WIRING
 - - - ACCESSORY OR OPTIONAL WIRING
 — TO INDICATE COMMON POTENTIAL ONLY, NOT TO REPRESENT WIRING

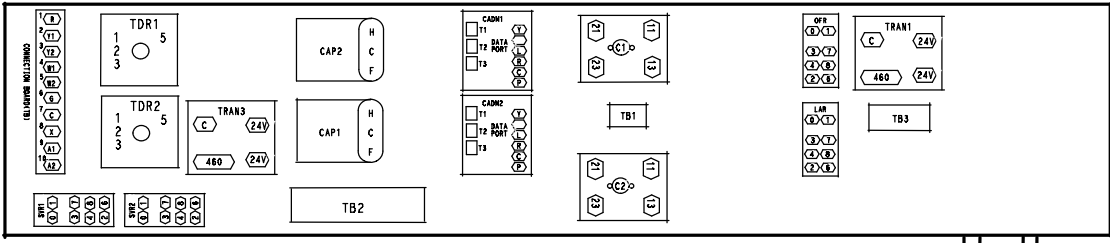
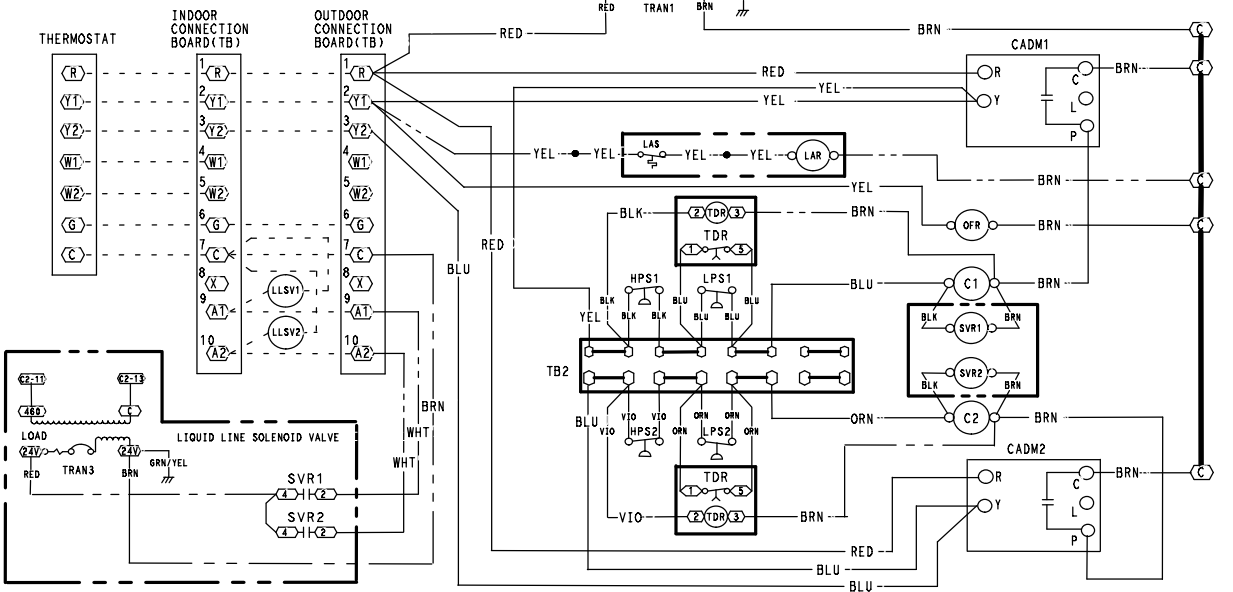
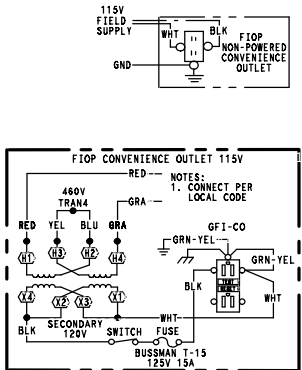
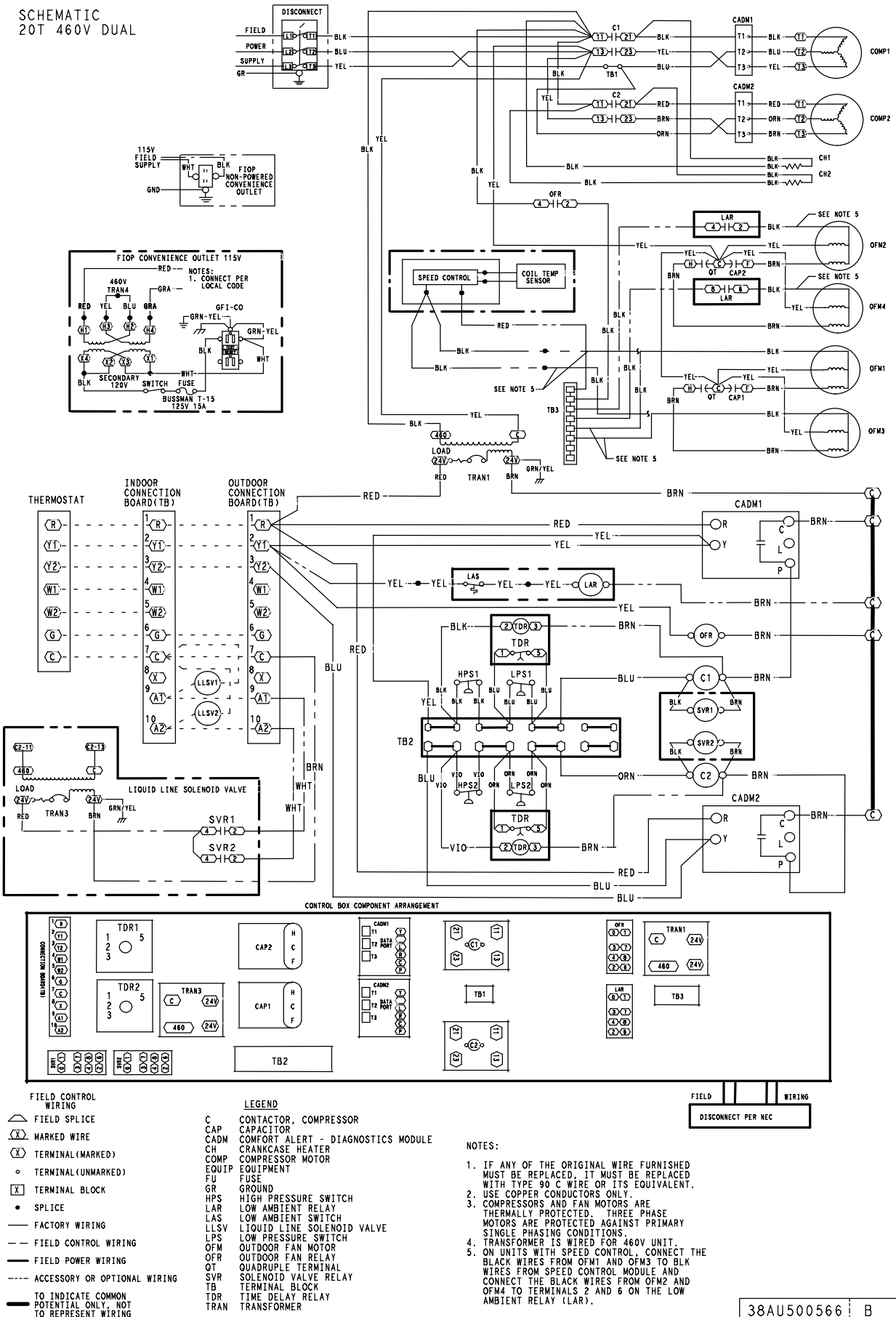
LEGEND
 C CONTACTOR, COMPRESSOR
 CAP CAPACITOR
 CADM COMFORT ALERT - DIAGNOSTICS MODULE
 CH CRANKCASE HEATER
 COMP COMPRESSOR MOTOR
 EQUIP EQUIPMENT
 FU FUSE
 GR GROUND
 HPS HIGH PRESSURE SWITCH
 LAR LOW AMBIENT RELAY
 LAS LOW AMBIENT SWITCH
 LLSV LIQUID LINE SOLENOID VALVE
 LPS LOW PRESSURE SWITCH
 OFM OUTDOOR FAN MOTOR
 OFR OUTDOOR FAN RELAY
 OT QUADRUPLE TERMINAL
 SVR SOLENOID VALVE RELAY
 TB TERMINAL BLOCK
 TDR TIME DELAY RELAY
 TRAN TRANSFORMER

NOTES:
 1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
 2. USE COPPER CONDUCTORS ONLY.
 3. COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED, THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
 4. TRANSFORMER IS WIRED FOR 230V UNIT. IF UNIT IS TO BE RUN WITH 208V POWER SUPPLY, DISCONNECT BLACK WIRE FROM 230V TAP AND CONNECT TO 208V TAP.
 5. ON UNITS WITH SPEED CONTROL, CONNECT THE BLACK WIRES FROM OFM1 AND OFM3 TO BLK WIRES FROM SPEED CONTROL MODULE AND CONNECT THE BLACK WIRES FROM OFM2 AND OFM4 TO TERMINALS 2 AND 6 ON THE LOW AMBIENT RELAY (LAR).

38AU500565 B

CAS240 460 - 3 - 60

SCHEMATIC
20T 460V DUAL



- FIELD CONTROL WIRING**
- △ FIELD SPLICE
 - (X) MARKED WIRE
 - (X) TERMINAL (MARKED)
 - TERMINAL (UNMARKED)
 - ⊠ TERMINAL BLOCK
 - SPLICE
 - FACTORY WIRING
 - - - FIELD CONTROL WIRING
 - FIELD POWER WIRING
 - - - ACCESSORY OR OPTIONAL WIRING
 - TO INDICATE COMMON POTENTIAL ONLY, NOT TO REPRESENT WIRING

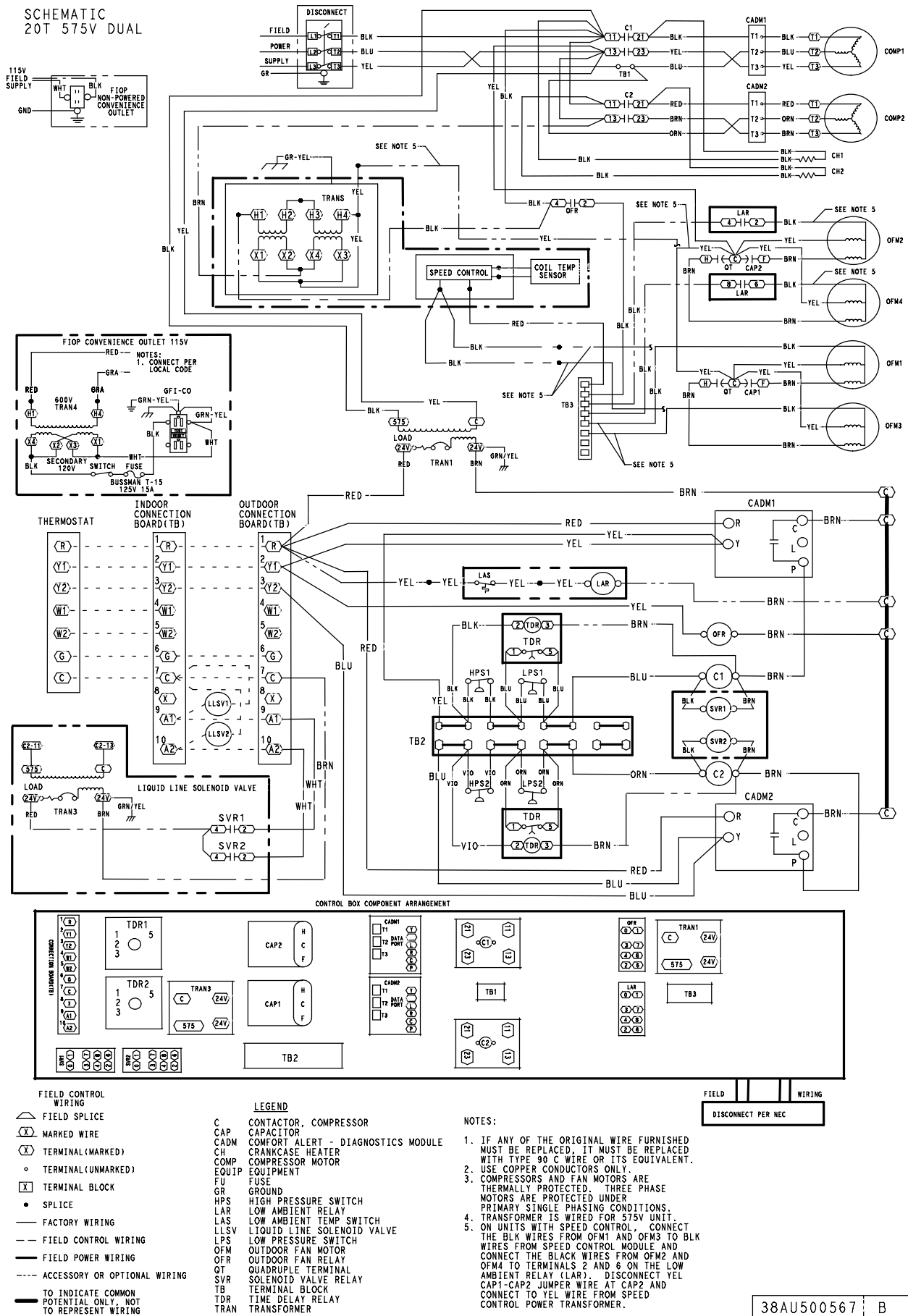
- LEGEND**
- C CONTACTOR, COMPRESSOR
 - CAP CAPACITOR
 - CADM COMFORT ALERT - DIAGNOSTICS MODULE
 - CH CRANKCASE HEATER
 - COMP COMPRESSOR MOTOR
 - EQUIP EQUIPMENT
 - FU FUSE
 - GR GROUND
 - HPS HIGH PRESSURE SWITCH
 - LAR LOW AMBIENT RELAY
 - LAS LOW AMBIENT SWITCH
 - LLSV LIQUID LINE SOLENOID VALVE
 - LPS LOW PRESSURE SWITCH
 - OFM OUTDOOR FAN MOTOR
 - OFR OUTDOOR FAN RELAY
 - QT QUADRUPLE TERMINAL SOLENOID VALVE RELAY
 - SVR VALVE RELAY
 - TB TERMINAL BLOCK
 - TDR TIME DELAY RELAY
 - TRAN TRANSFORMER

- NOTES:**
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED; IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
 2. USE COPPER CONDUCTORS ONLY.
 3. COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
 4. TRANSFORMER IS WIRED FOR 460V UNIT.
 5. ON UNITS WITH SPEED CONTROL, CONNECT THE BLACK WIRES FROM OFM1 AND OFM3 TO BLK WIRES FROM SPEED CONTROL MODULE AND CONNECT THE BLACK WIRES FROM OFM2 AND OFM4 TO TERMINALS 2 AND 6 ON THE LOW AMBIENT RELAY (LAR).

38AU500566 B

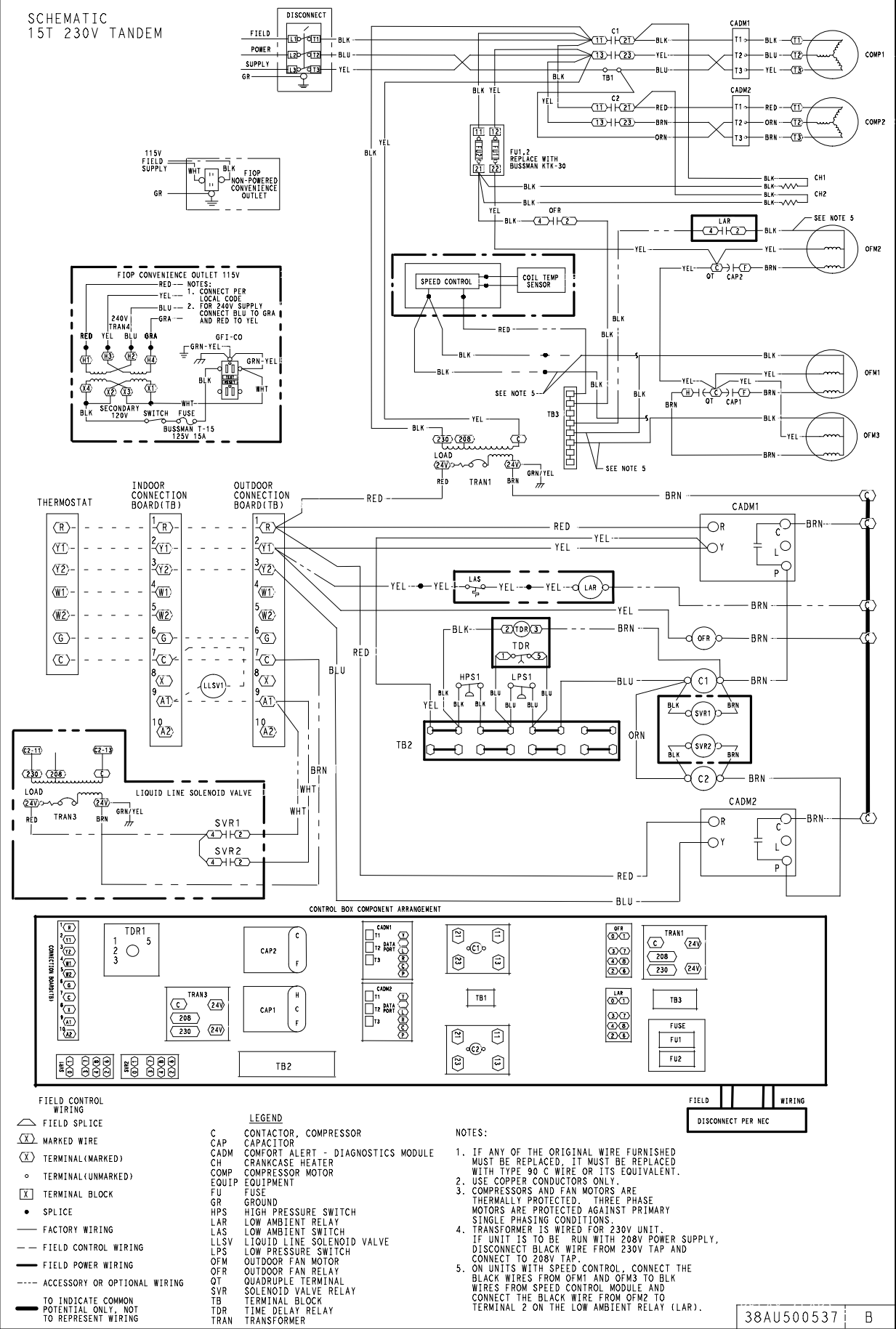
CAS240 575 - 3 - 60

SCHEMATIC
20T 575V DUAL



CAS181 208 / 230 - 3 - 60

SCHEMATIC
15T 230V TANDEM



FIELD CONTROL WIRING

- △ FIELD SPICE
- (X) MARKED WIRE
- (X) TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- TERMINAL BLOCK
- SPICE
- FACTORY WIRING
- - - FIELD CONTROL WIRING
- FIELD POWER WIRING
- - - ACCESSORY OR OPTIONAL WIRING
- TO INDICATE COMMON POTENTIAL ONLY, NOT TO REPRESENT WIRING

LEGEND

- C CONTACTOR, COMPRESSOR
- CAP CAPACITOR
- CADM COMFORT ALERT - DIAGNOSTICS MODULE
- CH CRANKCASE HEATER
- COMP COMPRESSOR MOTOR
- EQUIP EQUIPMENT
- FU FUSE
- GR GROUND
- HPS HIGH PRESSURE SWITCH
- LAR LOW AMBIENT RELAY
- LAS LOW AMBIENT SWITCH
- LLSV LIQUID LINE SOLENOID VALVE
- LPS LOW PRESSURE SWITCH
- OFM OUTDOOR FAN MOTOR
- OFR OUTDOOR FAN RELAY
- QT QUADRUPLE TERMINAL
- SVR SOLENOID VALVE RELAY
- TB TERMINAL BLOCK
- TDR TIME DELAY RELAY
- TRAN TRANSFORMER

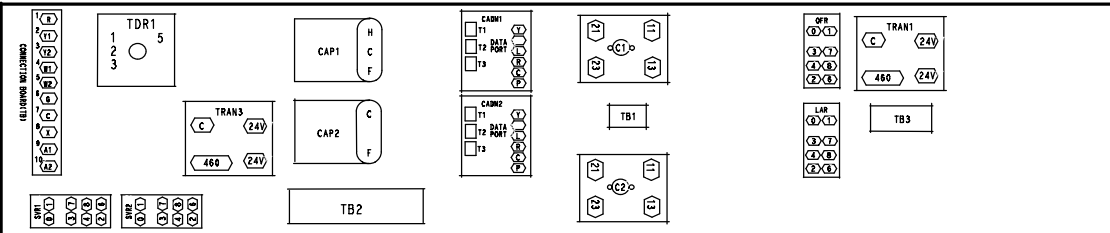
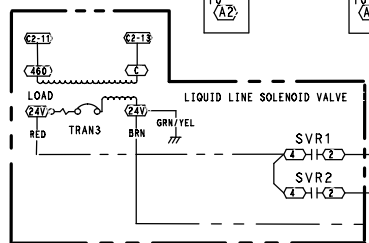
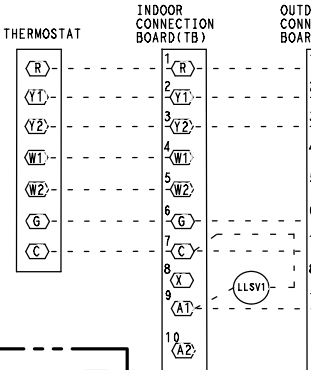
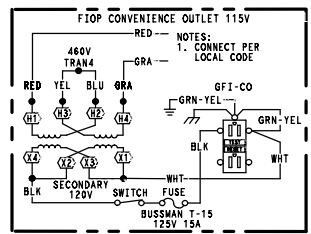
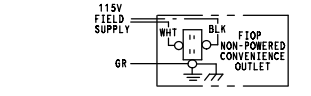
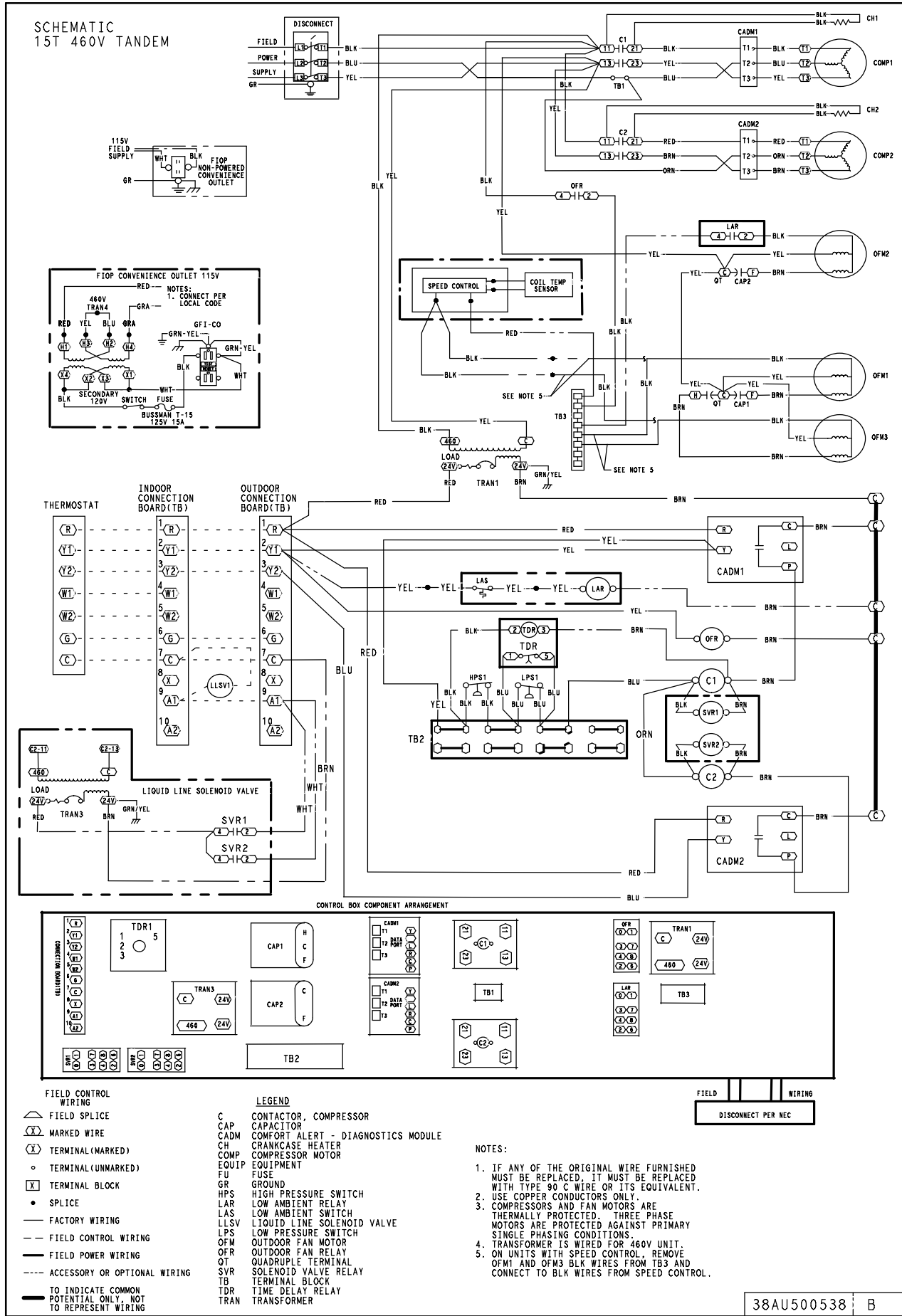
NOTES:

- IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
- USE COPPER CONDUCTORS ONLY.
- COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
- TRANSFORMER IS WIRED FOR 230V UNIT. IF UNIT IS TO BE RUN WITH 208V POWER SUPPLY, DISCONNECT BLACK WIRE FROM 230V TAP AND CONNECT TO 208V TAP.
- ON UNITS WITH SPEED CONTROL, CONNECT THE BLACK WIRES FROM OFM1 AND OFM3 TO BLK WIRES FROM SPEED CONTROL MODULE AND CONNECT THE BLACK WIRE FROM OFM2 TO TERMINAL 2 ON THE LOW AMBIENT RELAY (LAR).

38AU500537 B

CAS181 460 - 3 - 60

SCHEMATIC 15T 460V TANDEM



- FIELD CONTROL WIRING**
- △ FIELD SPLICE
 - ⊗ MARKED WIRE
 - ⊗ TERMINAL (MARKED)
 - TERMINAL (UNMARKED)
 - ⊗ TERMINAL BLOCK
 - SPLICE
 - FACTORY WIRING
 - - - FIELD CONTROL WIRING
 - FIELD POWER WIRING
 - - - - ACCESSORY OR OPTIONAL WIRING
 - TO INDICATE COMMON POTENTIAL ONLY, NOT TO REPRESENT WIRING

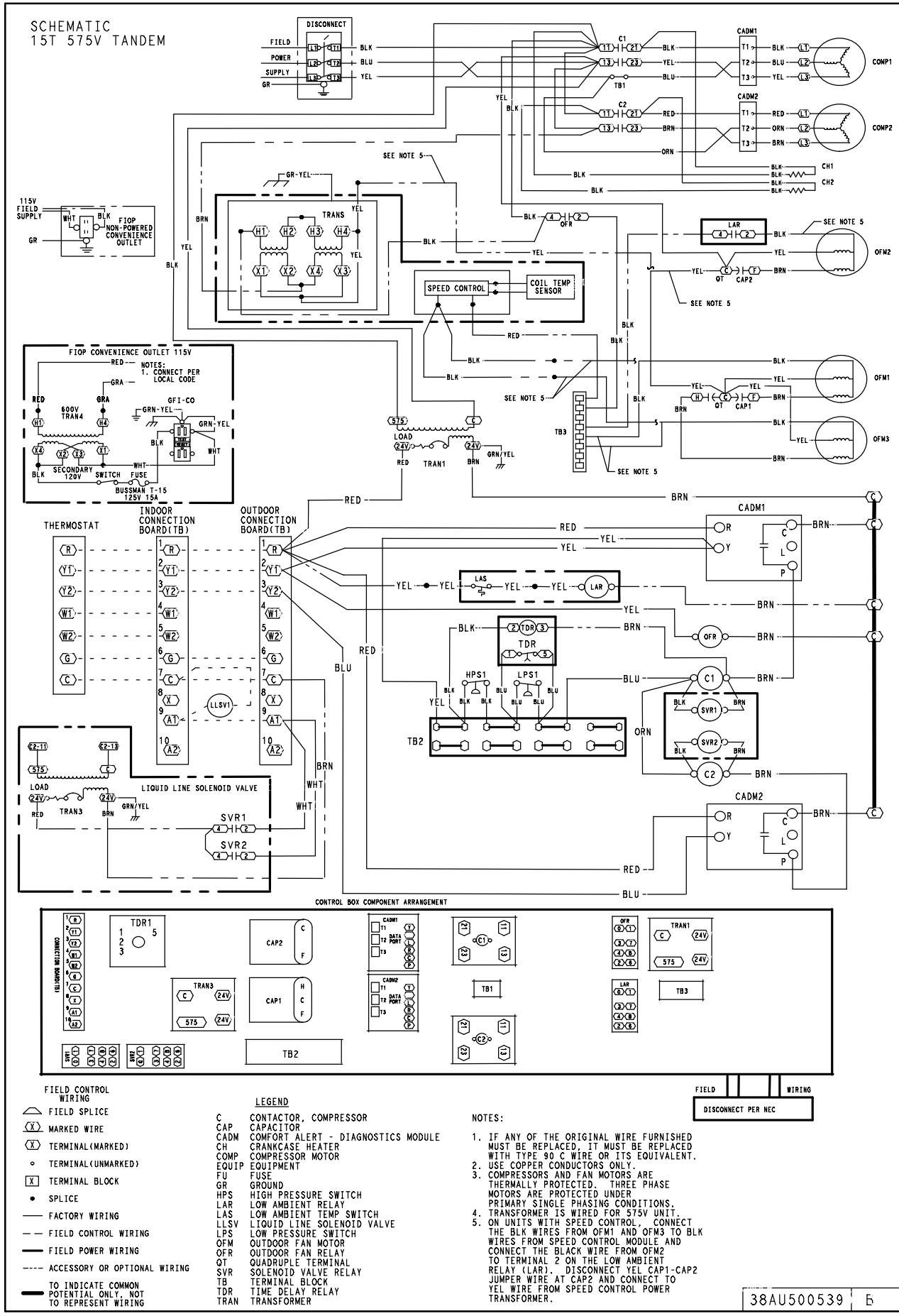
- LEGEND**
- C CONTACTOR, COMPRESSOR
 - CAP CAPACITOR
 - CADM COMFORT ALERT - DIAGNOSTICS MODULE
 - CH CRANKCASE HEATER
 - COMP COMPRESSOR MOTOR
 - EQUIP EQUIPMENT
 - FU FUSE
 - GR GROUND
 - HPS HIGH PRESSURE SWITCH
 - LAR LOW AMBIENT RELAY
 - LAS LOW AMBIENT SWITCH
 - LLSV LIQUID LINE SOLENOID VALVE
 - LPS LOW PRESSURE SWITCH
 - OFM OUTDOOR FAN MOTOR
 - OFMR OUTDOOR FAN RELAY
 - QT QUADRUPLE TERMINAL
 - SVR SOLENOID VALVE RELAY
 - TB TERMINAL BLOCK
 - TDR TIME DELAY RELAY
 - TRAN TRANSFORMER

- NOTES:**
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
 2. USE COPPER CONDUCTORS ONLY.
 3. COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
 4. TRANSFORMER IS WIRED FOR 460V UNIT.
 5. ON UNITS WITH SPEED CONTROL, REMOVE OFM1 AND OFM3 BLK WIRES FROM TB3 AND CONNECT TO BLK WIRES FROM SPEED CONTROL.

38AU500538 B

CAS181 575 - 3 - 60

SCHEMATIC
15T 575V TANDEM



- FIELD CONTROL WIRING**
- △ FIELD SPICE
 - (X) MARKED WIRE
 - TERMINAL (MARKED)
 - TERMINAL (UNMARKED)
 - ⊠ TERMINAL BLOCK
 - SPICE
 - FACTORY WIRING
 - FIELD CONTROL WIRING
 - FIELD POWER WIRING
 - ACCESSORY OR OPTIONAL WIRING
 - TO INDICATE COMMON POTENTIAL ONLY, NOT TO REPRESENT WIRING

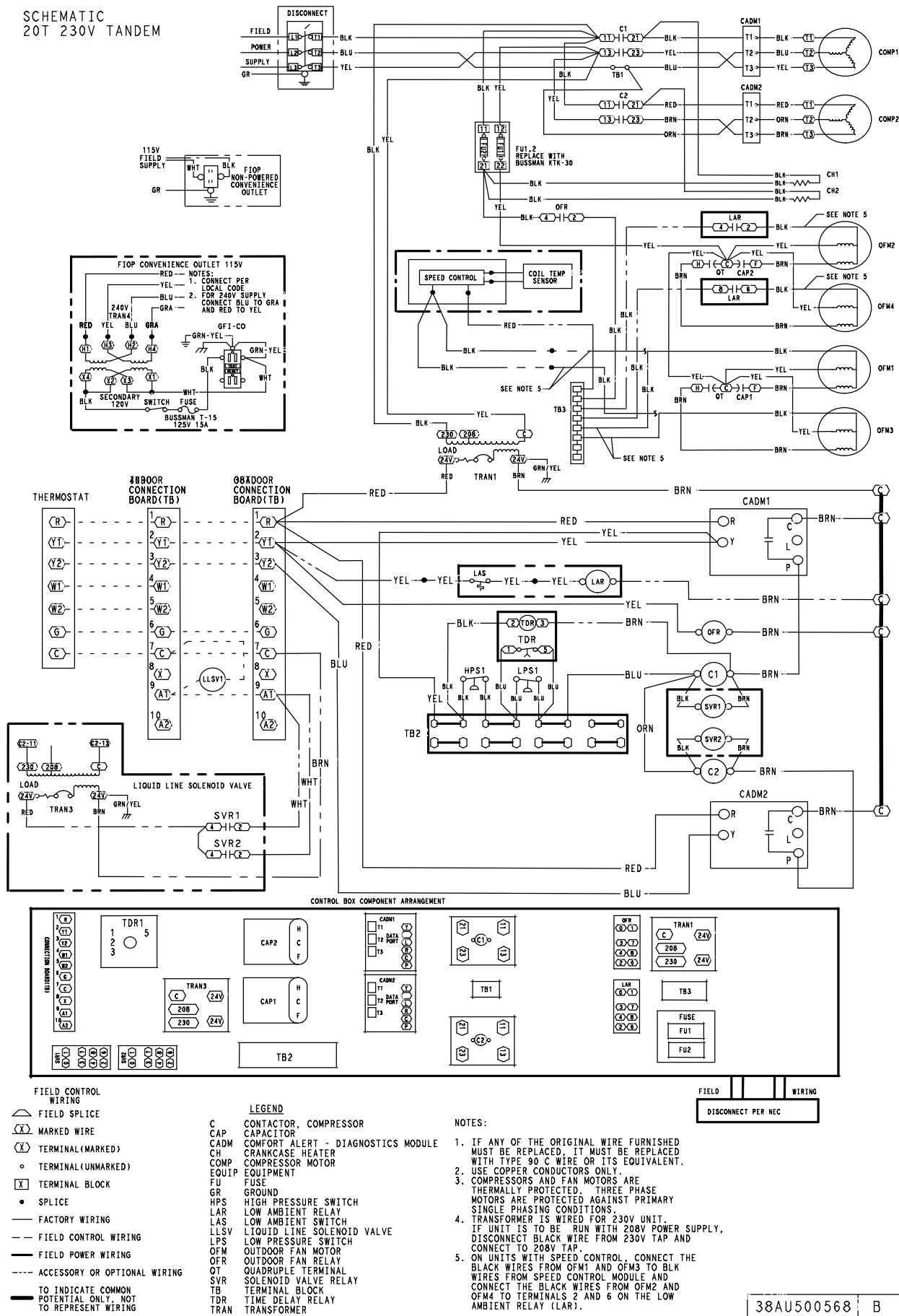
- LEGEND**
- C CONTACTOR, COMPRESSOR
 - CAP CAPACITOR
 - CADM COMFORT ALERT - DIAGNOSTICS MODULE
 - CH CRANKCASE HEATER
 - COMP COMPRESSOR MOTOR
 - EQUIP EQUIPMENT
 - FU FUSE
 - GR GROUND
 - HPS HIGH PRESSURE SWITCH
 - LAR LOW AMBIENT RELAY
 - LAS LOW AMBIENT TEMP SWITCH
 - LLSV LIQUID LINE SOLENOID VALVE
 - LPS LOW PRESSURE SWITCH
 - OFM OUTDOOR FAN MOTOR
 - OFR OUTDOOR FAN RELAY
 - QT QUADRIPOLE TERMINAL
 - SVR SOLENOID VALVE RELAY
 - TB TERMINAL BLOCK
 - TDR TIME DELAY RELAY
 - TRAN TRANSFORMER

- NOTES:**
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
 2. USE COPPER CONDUCTORS ONLY.
 3. COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS.
 4. TRANSFORMER IS WIRED FOR 575V UNIT.
 5. ON UNITS WITH SPEED CONTROL, CONNECT THE BLK WIRES FROM OFM1 AND OFM3 TO BLK WIRES FROM SPEED CONTROL MODULE AND CONNECT THE BLACK WIRE FROM OFM2 TO TERMINAL 2 ON THE LOW AMBIENT RELAY (LAR). DISCONNECT YEL CAP1-CAP2 JUMPER WIRE AT CAP2 AND CONNECT TO YEL WIRE FROM SPEED CONTROL POWER TRANSFORMER.

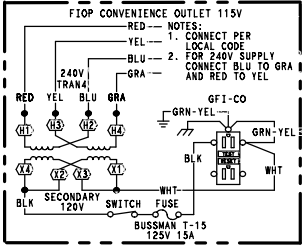
38AU500539 5

CAS241 208 / 230 - 3 - 60

SCHEMATIC
20T 230V TANDEM



115V FIELD SUPPLY



INDOOR CONNECTION BOARD (TB)

OUTDOOR CONNECTION BOARD (TB)

CONTROL BOX COMPONENT ARRANGEMENT

FIELD CONTROL WIRING

LEGEND

- △ FIELD SPICE
- (X) MARKED WIRE
- TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- TERMINAL BLOCK
- SPLICE
- FACTORY WIRING
- - - FIELD CONTROL WIRING
- FIELD POWER WIRING
- - - ACCESSORY OR OPTIONAL WIRING
- TO INDICATE COMMON POTENTIAL ONLY, NOT TO REPRESENT WIRING

- C CONTACTOR, COMPRESSOR
- CAP CAPACITOR
- CADM COMFORT ALERT - DIAGNOSTICS MODULE
- CH CRANKCASE HEATER
- COMP COMPRESSOR MOTOR
- EQUIP EQUIPMENT
- FU FUSE
- GR GROUND
- HPS HIGH PRESSURE SWITCH
- LAR LOW AMBIENT RELAY
- LAS LOW AMBIENT SWITCH
- LLSV LIQUID LINE SOLENOID VALVE
- LPS LOW PRESSURE SWITCH
- OFM OUTDOOR FAN MOTOR
- OFR OUTDOOR FAN RELAY
- OT QUADRUPLE TERMINAL
- SVR SOLENOID VALVE RELAY
- TB TERMINAL BLOCK
- TDR TIME DELAY RELAY
- TRAN TRANSFORMER

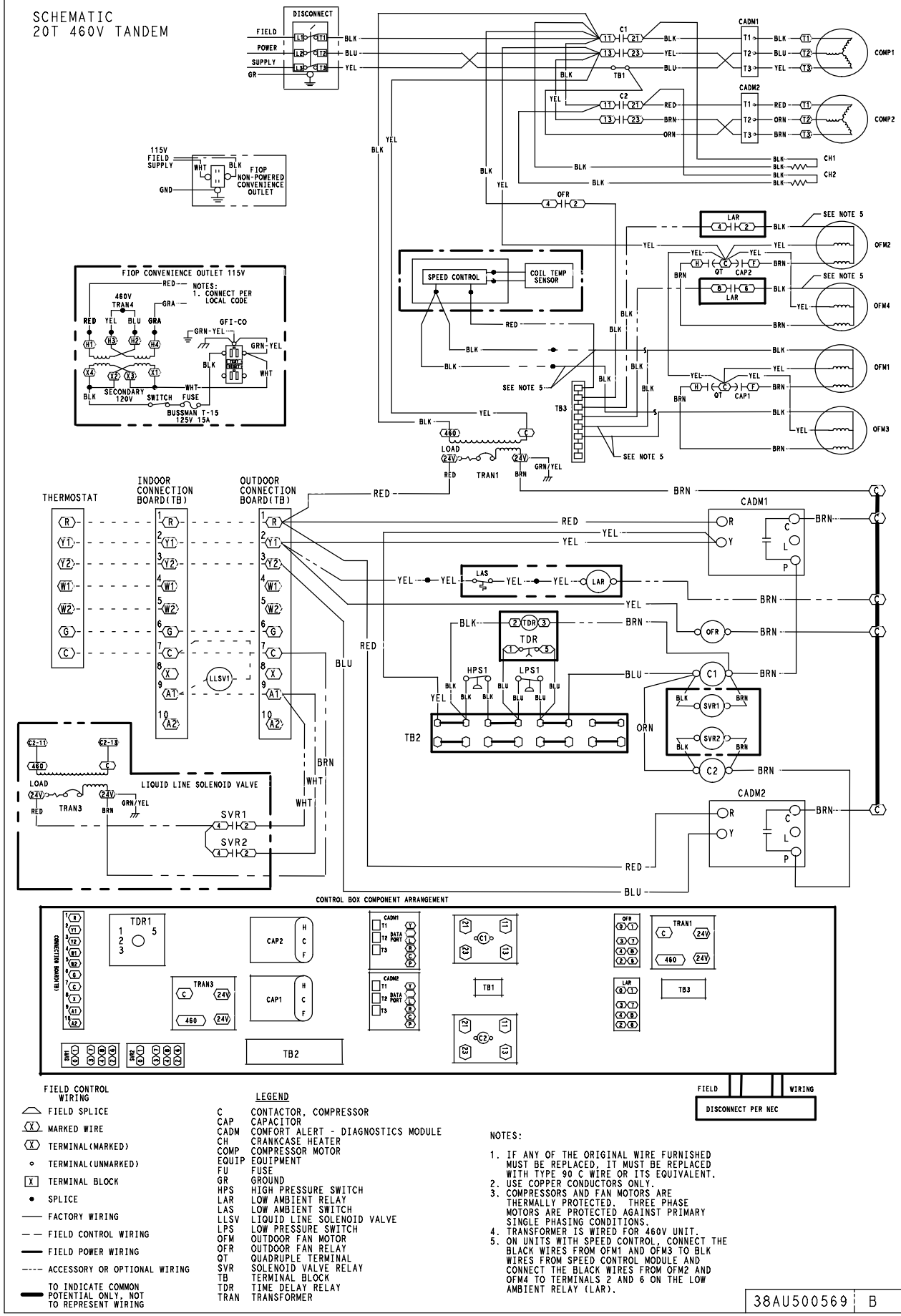
NOTES:

1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
2. USE COPPER CONDUCTORS ONLY.
3. COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
4. TRANSFORMER IS WIRED FOR 230V UNIT. IF UNIT IS TO BE RUN WITH 208V POWER SUPPLY, DISCONNECT BLACK WIRE FROM 230V TAP AND CONNECT TO 208V TAP.
5. ON UNITS WITH SPEED CONTROL, CONNECT THE BLACK WIRES FROM OFM1 AND OFM3 TO BLK WIRES FROM SPEED CONTROL MODULE AND CONNECT THE BLACK WIRES FROM OFM2 AND OFM4 TO TERMINALS 2 AND 6 ON THE LOW AMBIENT RELAY (LAR).

38AU500568 B

CAS241 460 - 3 - 60

SCHEMATIC
20T 460V TANDEM



- FIELD CONTROL WIRING**
- △ FIELD SPICE
 - (X) MARKED WIRE
 - TERMINAL (MARKED)
 - TERMINAL (UNMARKED)
 - ⊠ TERMINAL BLOCK
 - SPLICE
 - FACTORY WIRING
 - - - FIELD CONTROL WIRING
 - FIELD POWER WIRING
 - - - ACCESSORY OR OPTIONAL WIRING
 - TO INDICATE COMMON POTENTIAL ONLY, NOT TO REPRESENT WIRING

- LEGEND**
- C CONTACTOR, COMPRESSOR
 - CAP CAPACITOR
 - CADM COMFORT ALERT - DIAGNOSTICS MODULE
 - CH CRANKCASE HEATER
 - COMP COMPRESSOR MOTOR
 - EQUIP EQUIPMENT
 - FU FUSE
 - GR GROUND
 - HPS HIGH PRESSURE SWITCH
 - LAR LOW AMBIENT RELAY
 - LAS LOW AMBIENT SWITCH
 - LLSV LIQUID LINE SOLENOID VALVE
 - LPS LOW PRESSURE SWITCH
 - OFM OUTDOOR FAN MOTOR
 - OFR OUTDOOR FAN RELAY
 - QT QUADRUPLE TERMINAL
 - SVR SOLENOID VALVE RELAY
 - TB TERMINAL BLOCK
 - TDR TIME DELAY RELAY
 - TRAN TRANSFORMER

- NOTES:**
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
 2. USE COPPER CONDUCTORS ONLY.
 3. COMPRESSORS AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
 4. TRANSFORMER IS WIRED FOR 460V UNIT.
 5. ON UNITS WITH SPEED CONTROL, CONNECT THE BLACK WIRES FROM OFM1 AND OFM3 TO BLK WIRES FROM SPEED CONTROL MODULE AND CONNECT THE BLACK WIRES FROM OFM2 AND OFM4 TO TERMINALS 2 AND 6 ON THE LOW AMBIENT RELAY (LAR).

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