

**INSTALLATION INSTRUCTIONS FOR
6536 MODEL HEAT PUMPS
P.C. BOARD REPLACEMENT
KIT 6536C3209**

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AIRXCEL, INC. - RV Products Division

PO BOX 4020 • Wichita, KS 67204 • 316.832.3400 • www.AIRXCEL.com

E-mail Support: RVPSupport@airxcel.com • E-mail Sales: RVPSales@airxcel.com

INSTALLATION INSTRUCTIONS FOR OLD P.C. BOARD 6535B320 to NEW P.C. BOARD 6536C3209

(Refer to illustrations on page 3)

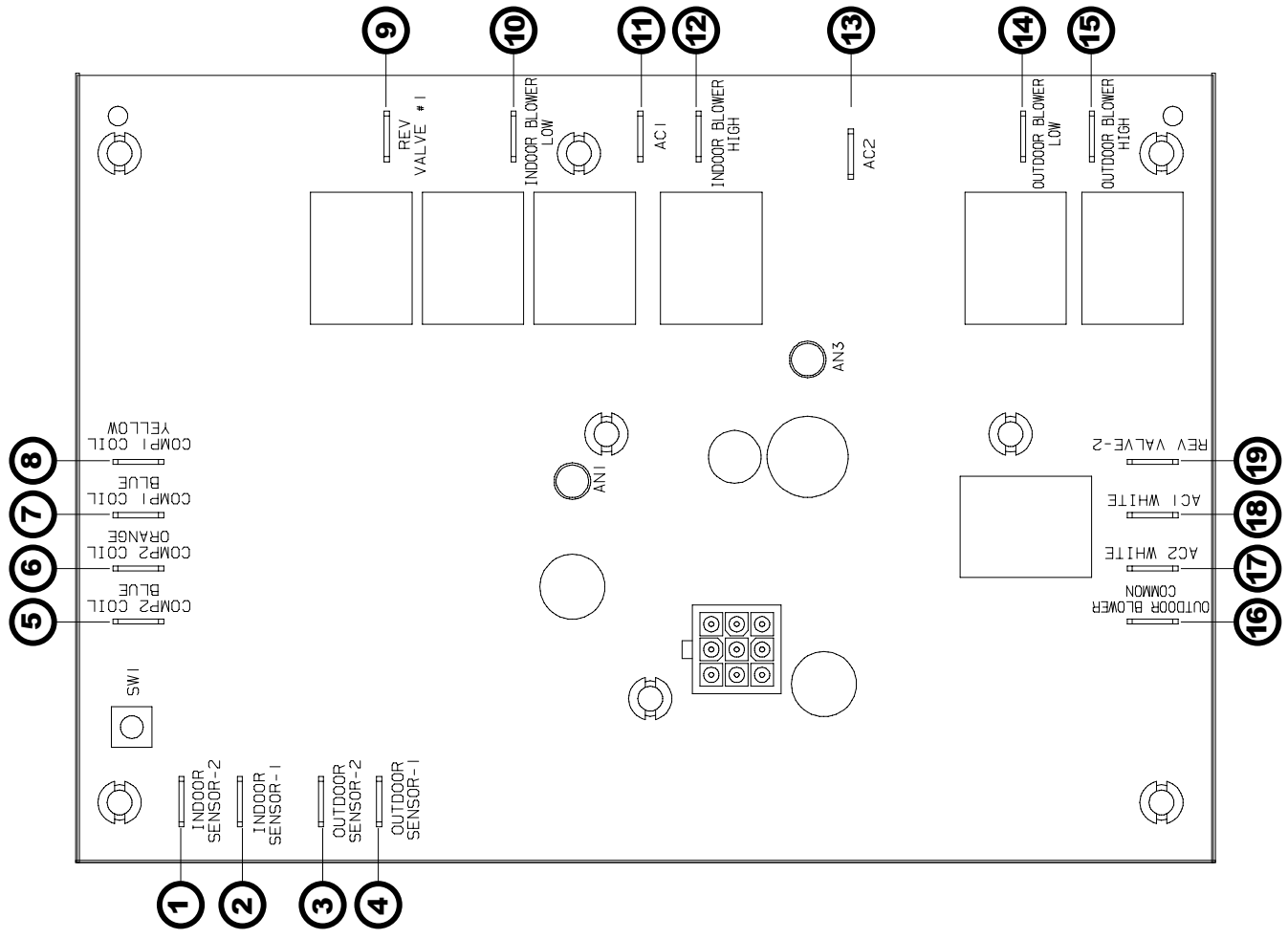
1. Change wire from T14 on old board to Indoor Sensor -2 on the new board
2. Change wire from T15 on old board to Indoor Sensor -1 on the new board
3. Change wire from T16 on old board to Outdoor Sensor -2 on the new board
4. Change wire from T17 on old board to Outdoor Sensor -1 on the new board
5. Change wire from T3A on old board to Comp2 Coil Blue on the new board
6. Change wire from T10 on old board to Comp2 Coil Orange on the new board
7. Change wire from T3B on old board to Comp1 Coil Blue on the new board
8. Change wire from T2 on old board to Comp1 Coil Yellow on the new board
9. Change wires from T18 on old board to Rev Valve #1 on the new board
10. Change wire from T7 on old board to Indoor Blower Low on the new board
11. Change wire from T1 on old board to AC1 on the new board
12. Change wire from T6 on old board to Indoor Blower High on the new board
13. Use orange wire (provided with the board kit) to go from AC2, on the new board, to Circuit #2 Black on the High voltage terminal block, usually located at the very bottom of the junction box. There should be only one terminal empty on the entire block, and the other wire on this particular block should be orange.
14. Change wire from T11 on old board to Outdoor Blower Low on the new board
15. If this is a 16 gauge black wire you will need to change from T12 on old board to Outdoor Blower High on the new board. If it is a smaller gauge wire you will need to follow this wire over to the compressor relay, then there should be a 16 gauge wire plugged in right next to it on the relay. If this is the case, you can completely remove the smaller wire running from the printed circuit board to the relay, as it is no longer needed, then move the 16 gauge wire from the relay to the Outdoor Blower High on the new board.
16. Change wire from T13 on old board to Outdoor Blower Common on the new board
17. Change wire from T8 on old board to AC2 white on the new board. Even though the terminal states "white", the wire is actually yellow for circuit #2 neutral
18. Change wire from T5 on old board to AC1 white on the new board
19. Change wires from T19 on old board to Rev Valve #2 on the new board
- X: The equivalent for these terminals does not exist on the new board. If there is a pair of wires on these terminals, you will need to separate the two wires and completely remove the smaller of the two, which runs from the pc board to the compressor relay. The larger of the two will then be moved to the relay terminal from which the smaller wire was removed. If the two wires are connected together at the relay, you will still need to remove the smaller of the two wires, and just place the larger wire back onto the same terminal on the compressor relay.

If the coach is a Winnebago, you may have the energy management system. The difference will be, you will have two extra wires coming down the the board with the lifeline. You should have a white wire with a black stripe, and an orange wire with a black stripe. The small orange wire going to the Coil side of your compressor #2 relay will plug into the orange wire with the black stripe. The white wire with the black stripe will plug into Comp2 Coil Orange

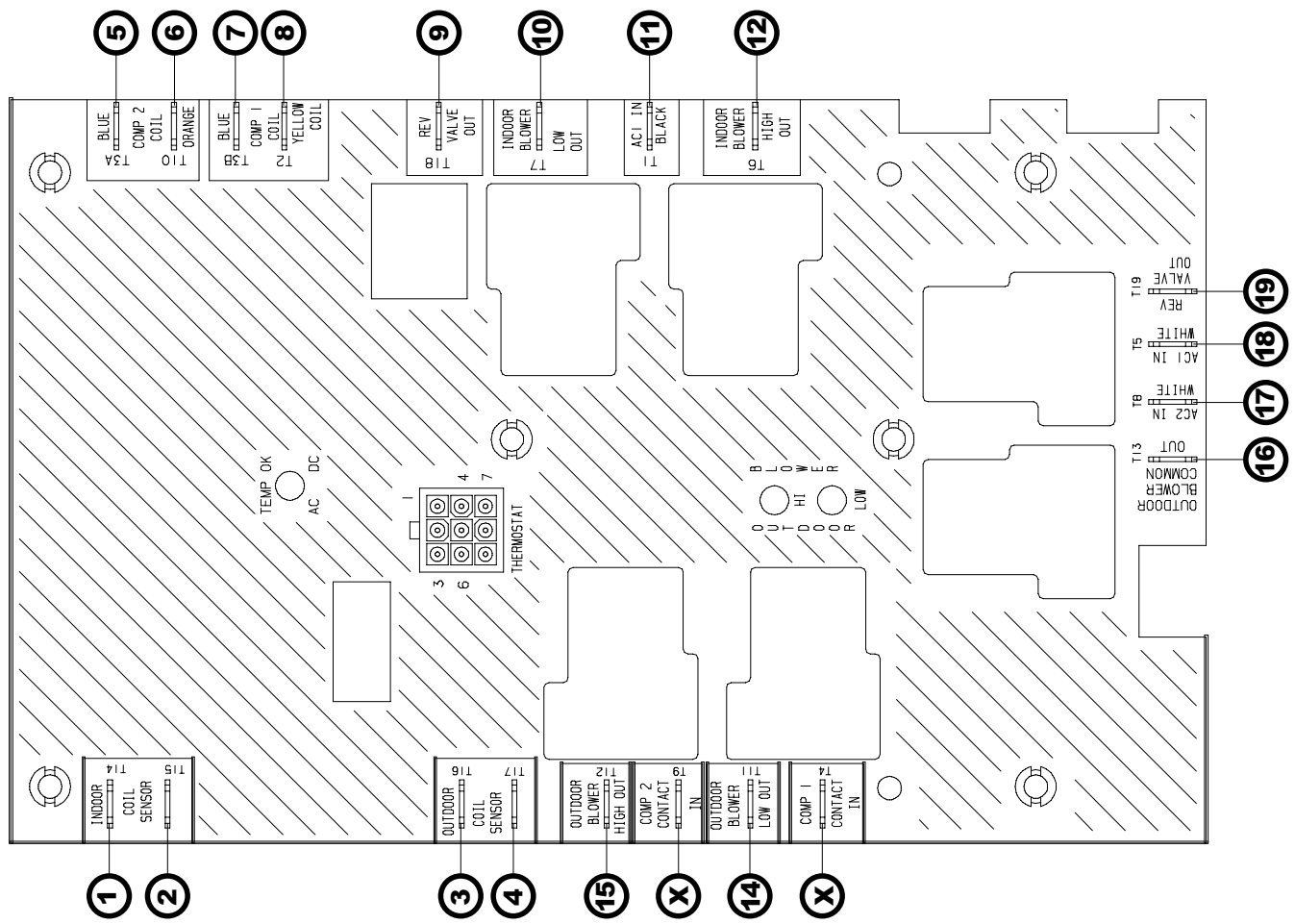
PLEASE NOTE: In the event that wires are too short to reach their designated terminal, extra wires have been provided with this kit to lengthen the existing wires. You will have to strip and wire nut the wires together. You must try to maintain the same wire colors.

Apply new wiring diagram over the previous wiring diagram.

6536C3209 (New Board)



6535*320 (Old Board)



INSTALLATION INSTRUCTIONS FOR OLD P.C. BOARD 6536A320 to NEW P.C. BOARD 6536C3209

(Refer to illustrations on page 5)

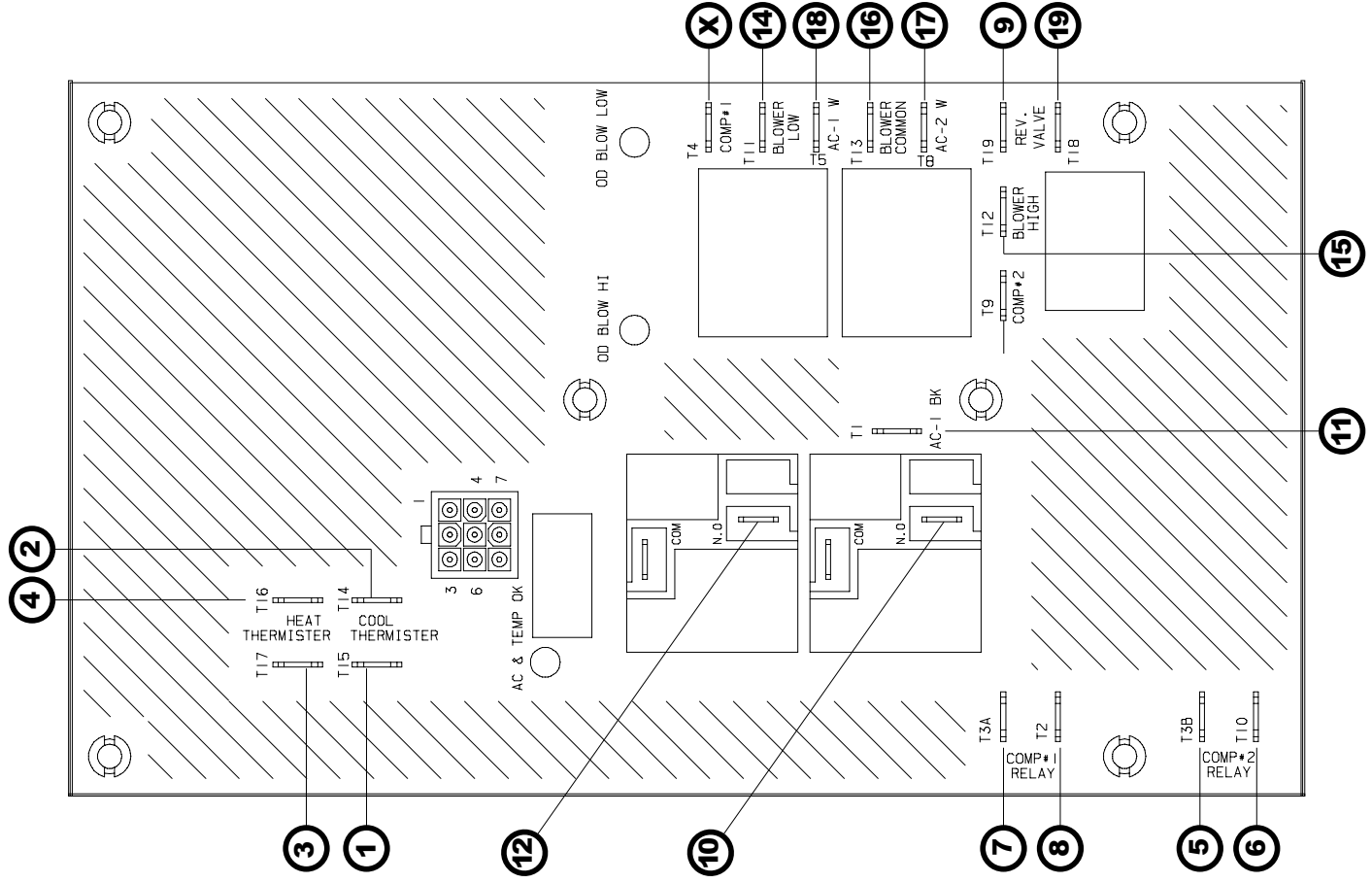
1. Change wire from T15 on old board to Indoor Sensor - 2 on the new board
2. Change wire from T14 on old board to Indoor Sensor - 1 on the new board
3. Change wire from T17 on old board to Outdoor Sensor- 2 on the new board
4. Change wire from T16 on old board to Outdoor Sensor - 1 on the new board
5. Change wire from T3B on old board to Comp2 Coil Blue on the new board
6. Change wire from T10 on old board to Comp2 Coil Orange on the new board
7. Change wire from T3A on old board to Comp1 Coil Blue on the new board
8. Change wire from T2 on old board to Comp1 Coil Yellow on the new board
9. Change wires from T19 on old board to Rev Valve #1 on new board
10. Change red wire from bottom relay on old board to Indoor Blower Low on the new board
11. Change wire from T1 on old board to AC1 on the new board
12. Change black wire from top relay on old board to Indoor Blower High on the new board
13. Use orange wire (provided with the board kit) to go from AC2, on the new board, to Circuit #2 Black on the High Voltage terminal block, usually located at the very bottom of the Junction box. There should be only one terminal empty on the entire block, and the other wire on this particular block should be orange.
14. Change wire from T11 on old board to Outdoor Blower Low on the new board
15. If this is a 16 gauge black wire you will need to change from T12 on old board to Outdoor Blower High on the new board. If it is a smaller gauge wire, you will need to follow this wire over to the compressor relay, then there should be a 16 gauge wire plugged in right next to it on the relay. If this is the case, you can completely remove the smaller wire running from the printed circuit board to the relay, as it is no longer needed, then move the 16 gauge wire from the relay to the Outdoor Blower High on the new board.
16. Change wire from T13 on the old board to Outdoor Blower Common on the new board
17. Change wire from T8 on the old board to AC2 White on the new board. Even though the terminal states "white", the wire is actually yellow for circuit #2 neutral.
18. Change wire from T5 on old board to AC1 white on the new board
19. Change wires from T18 on old board to Rev Valve #2 on the new board
- X. The equivalent for these terminals does not exist on the new board. If there is a pair of wires on these terminals, you will need to separate the two wires and completely remove the smaller of the two, which runs from the pc board to the compressor relay. The larger of the two will then be moved to the relay terminal from which the smaller wire was removed. If the two wires are connected together at the relay, you will still need to remove the smaller of the two wires, and just place the larger wire back onto the same terminal on the compressor relay.

If the coach is a Winnebago, you may have the energy management system. The difference will be, you will have two extra wires coming down to the board with the lifeline. You should have a white wire with a black stripe, and an orange wire with a black stripe. The small orange wire going to the Coil side of your compressor #2 relay will plug into the orange wire with the black stripe. The white wire with the black stripe will plug into Comp2 Coil Orange.

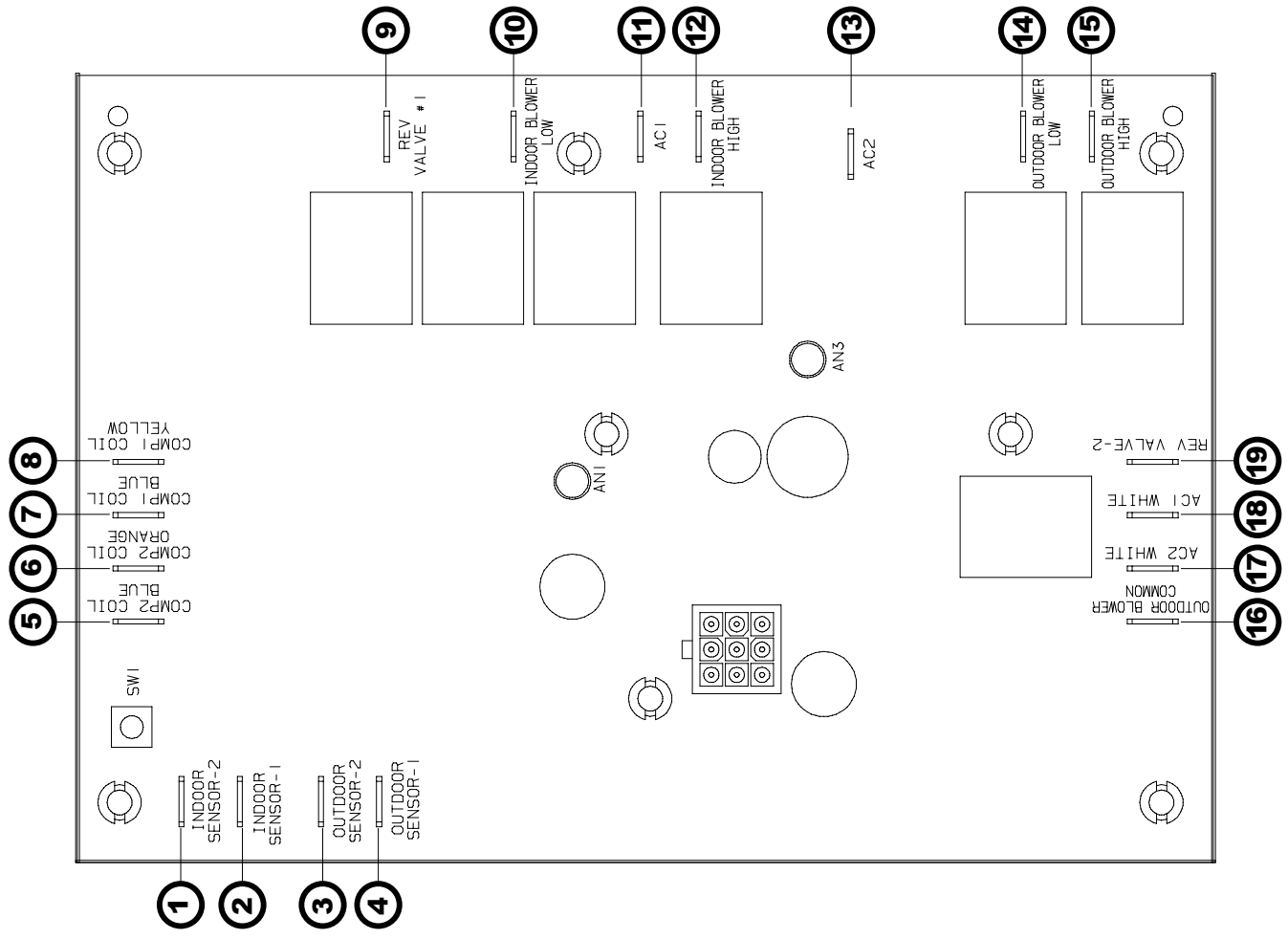
PLEASE NOTE: In the event that wires are too short to reach their designated terminal, extra wires have been provided with this kit to lengthen the existing wires. You will have to strip and wire nut the wires together. You must try to maintain the same wire colors.

Apply new wiring diagram over the previous wiring diagram.

6536A320 (Old Board)



6536C3209 (New Board)



PARTS LIST FOR REPLACEMENT BOARD KIT 6536C3209

ITEM	DESCRIPTION	QTY
1.	P.C. BOARD pre-wired with:	1
	Blue Wire Assembly	2
	Orange Wire Assembly	1
	Yellow Wire Assembly	1
	Black Wire Assembly	1
2.	RED WIRE ASSEMBLY	1
3.	BLACK WIRE ASSEMBLY	2
4.	WIRE NUTS	3
5.	WIRING DIAGRAM 1976J254	1
6.	INSTALLATION INSTRUCTIONS	1

- ① #1 COMPRESSOR RUN CAPACITOR
- ② #1 COMPRESSOR START CAPACITOR
- ③ #1 COMPRESSOR START DEVICE
- ④ #2 COMPRESSOR RUN CAPACITOR
- ⑤ #2 COMPRESSOR START CAPACITOR
- ⑥ #2 COMPRESSOR START DEVICE
- ⑦ #1 COMPRESSOR RELAY
- ⑧ #2 COMPRESSOR RELAY

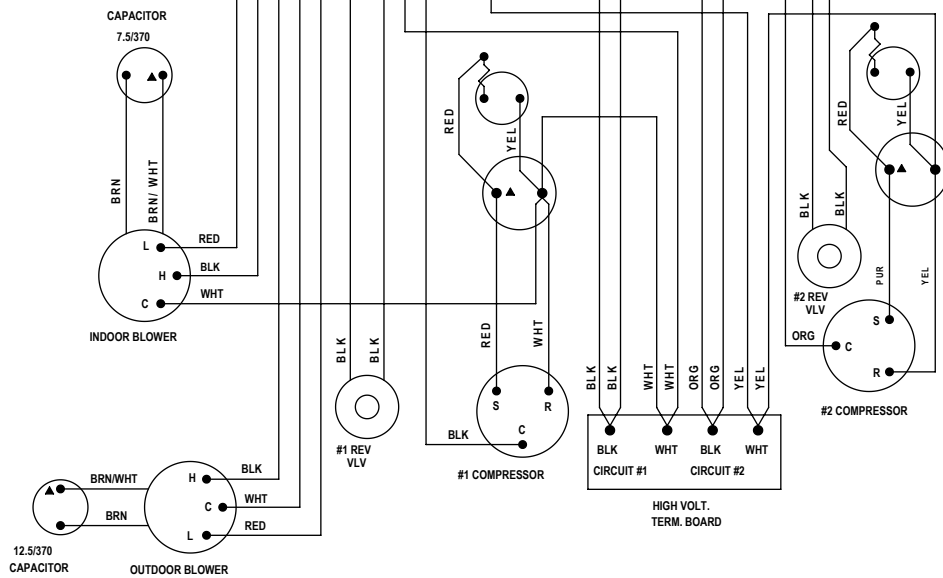
LED INDICATORS: GREEN FLASH CODES: - - - SYSTEM NORMAL

DOB TIMER RUNNING - - - - -

ID OR OD FREEZE TEMP OUT OF RANGE - - - - -

AC1 LINE VOLTAGE OUT OF RANGE - - - - -

RED: ON IF AC2 VOLTAGE IS IN RANGE AND STAGE 2 IS CALLING



NOTE: HIGH VOLT. WIRING (115 V) SHOWN BOLD

LOW VOLT. WIRING (12 V) SHOWN FINE

▲ IDENTIFIED TERMINAL



Coleman-Mach

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E-mail Support: RVPSupport@airxcel.com • E-mail Sales: RVPSales@airxcel.com