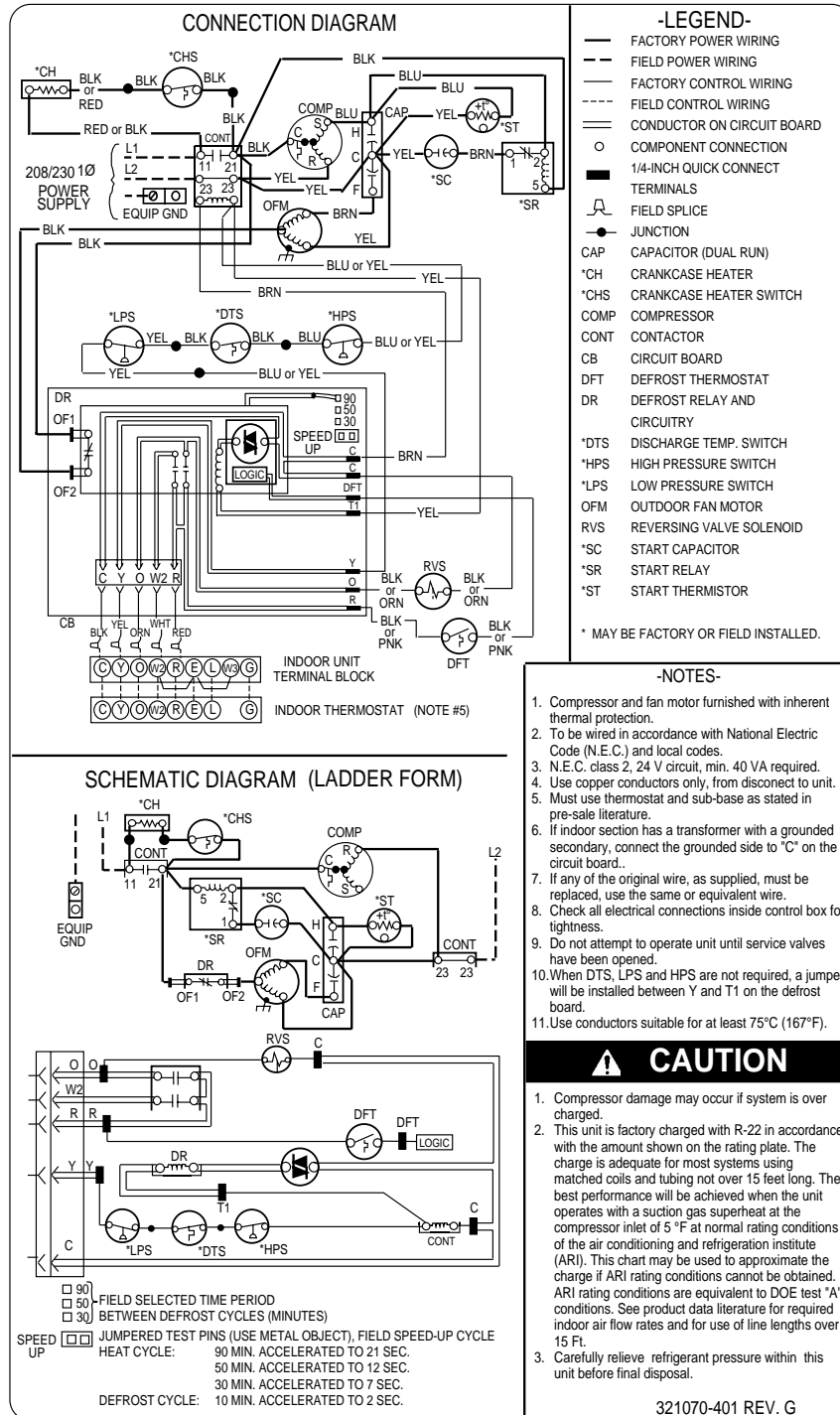
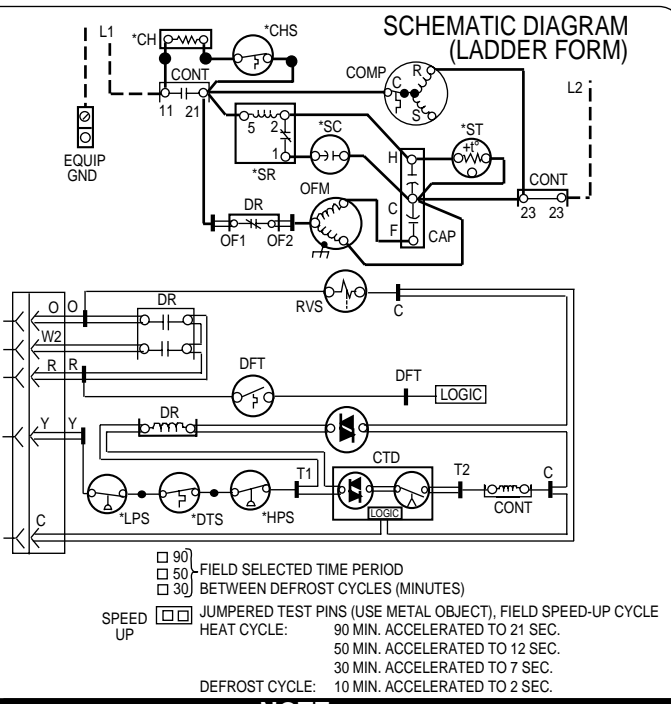
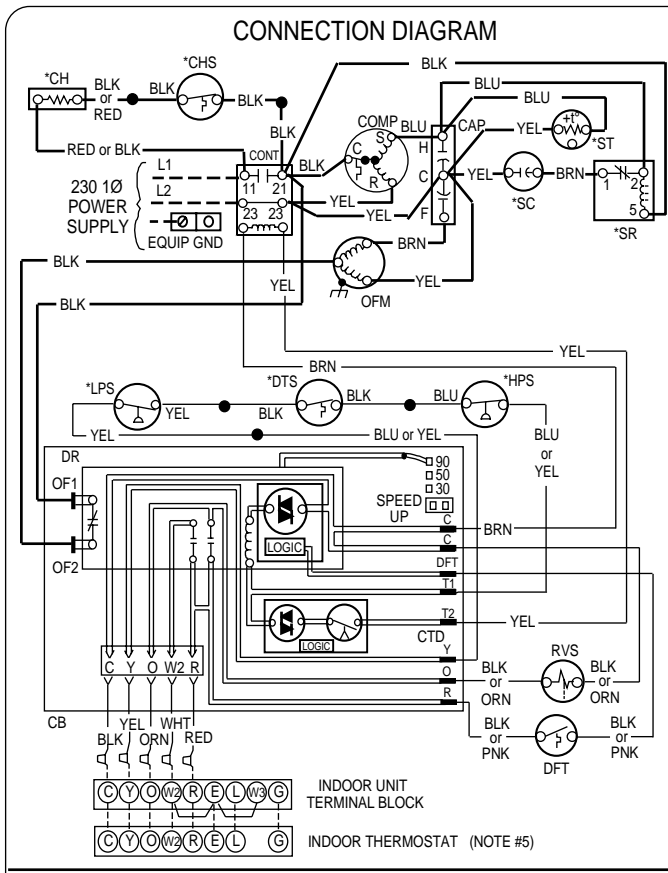


Wiring Diagrams



A97166

Fig. 1—38YC(C, G, S) 018 (30), 024 (30), 030 (30, 31), 036 (31, 32)
208-230v, 1 Phase, 60 Hertz



NOTE

THIS DEFROST CONTROL BOARD CONTAINS A FIVE MINUTE SHORT CYCLE PROTECTOR. A FIVE MINUTE DELAY WILL OCCUR BETWEEN COMPRESSOR OFF/ON CYCLES.

-NOTES-

1. Compressor and fan motor furnished with inherent thermal protection.
2. To be wired in accordance with National Electric Code (N.E.C.) and local codes.
3. N.E.C. class 2, 24 V circuit, min. 40 VA required.
4. Use copper conductors only, from disconnect to unit.
5. Must use thermostat and sub-base as stated in pre-sale literature.
6. If indoor section has a transformer with a grounded secondary, connect the grounded side to "C" on the circuit board.
7. If any of the original wire, as supplied, must be replaced, use the same or equivalent wire.
8. Check all electrical connections inside control box for tightness.
9. Do not attempt to operate unit until service valves have been opened.
10. When DTS, LPS and HPS are not required, a jumper will be installed between Y and T1 on the defrost board.
11. Use conductors suitable for at least 75°C (167°F).

CAUTION

1. Compressor damage may occur if system is over charged.
2. This unit is factory charged with R-22 in accordance with the amount shown on the rating plate. The charge is adequate for most systems using matched coils and tubing not over 15 feet long. The best performance will be achieved when the unit operates with a suction gas superheat at the compressor inlet of 5 °F at normal rating conditions of the air conditioning and refrigeration institute (ARI). This chart may be used to approximate the charge if ARI rating conditions cannot be obtained. ARI rating conditions are equivalent to DOE test "A" conditions. See product data literature for required indoor air flow rates and for use of line lengths over 15 Ft.
3. Carefully relieve refrigerant pressure within this unit before final disposal.

-LEGEND-

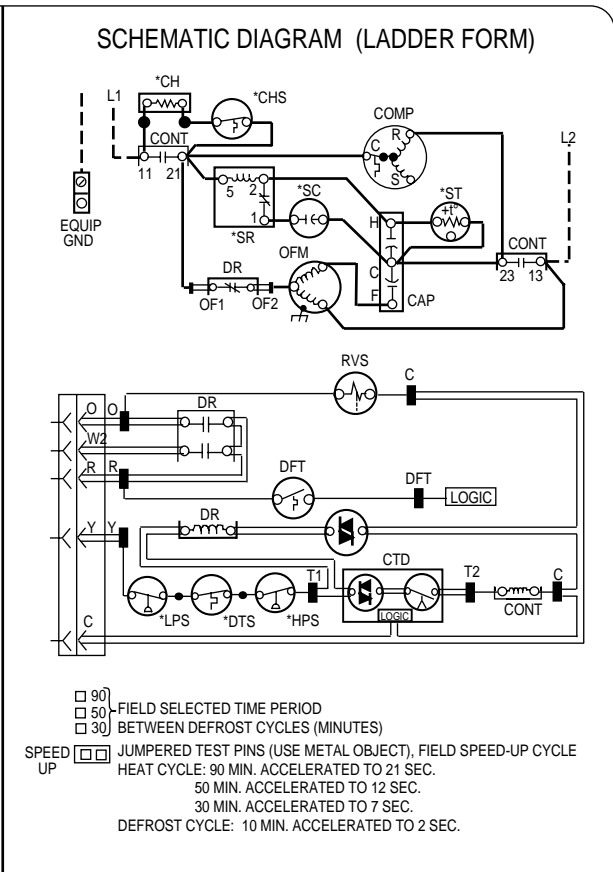
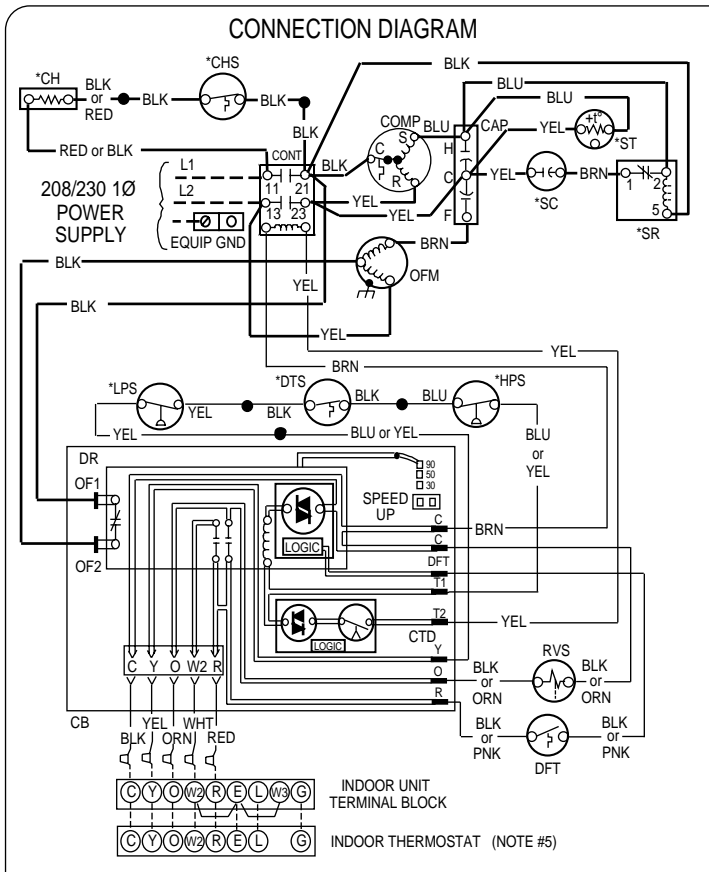
—	FACTORY POWER WIRING	CB	CIRCUIT BOARD
- - -	FIELD POWER WIRING	DFT	DEFROST THERMOSTAT
—	FACTORY CONTROL WIRING	DR	DEFROST RELAY AND CIRCUITRY
- - -	FIELD CONTROL WIRING	*DTS	DISCHARGE TEMP. SWITCH
—	CONDUCTOR ON CIRCUIT BOARD	*HPS	HIGH PRESSURE SWITCH
○	COMPONENT CONNECTION	*LPS	LOW PRESSURE SWITCH
■	1/4-INCH QUICK CONNECT	OFM	OUTDOOR FAN MOTOR
⌋	TERMINALS	RVS	REVERSING VALVE SOLENOID
⌋	FIELD SPLICE	*SC	START CAPACITOR
●	JUNCTION	*SR	START RELAY
CAP	CAPACITOR (DUAL RUN)	*ST	START THERMISTOR
*CH	CRANKCASE HEATER		
*CHS	CRANKCASE HEATER SWITCH		
COMP	COMPRESSOR		
CTD	COMPRESSOR TIME DELAY		
CONT	CONTACTOR		

* MAY BE FACTORY OR FIELD INSTALLED.

322299-101 REV. F

Fig. 2—38YC(C, G, S) 036 (30), 042 (30, 31, 32, 33), 048 (30, 31) and 38YCW018-048 208-230v, 1 Phase, 60 Hertz

A97167



NOTE

THIS DEFOST CONTROL BOARD CONTAINS A FIVE MINUTE SHORT CYCLE PROTECTOR. A FIVE MINUTE DELAY WILL OCCUR BETWEEN COMPRESSOR OFF/ON CYCLES.

-NOTES-

- Compressor and fan motor furnished with inherent thermal protection.
- To be wired in accordance with National Electric Code (N.E.C.) and local codes.
- N.E.C. class 2, 24 V circuit, min. 40 VA required.
- Use copper conductors only, from disconnect to unit.
- Must use thermostat and sub-base as stated in pre-sale literature.
- If indoor section has a transformer with a grounded secondary, connect the grounded side to "C" on the circuit board.
- If any of the original wire, as supplied, must be replaced, use the same or equivalent wire.
- Check all electrical connections inside control box for tightness.
- Do not attempt to operate unit until service valves have been opened.
- When DTS, LPS and HPS are not required, a jumper will be installed between Y and T1 on the defrost board.
- Use conductors suitable for at least 75°C (167°F).

320849-401 REV. G

-LEGEND-

—	FACTORY POWER WIRING	COMP	COMPRESSOR
---	FIELD POWER WIRING	CTD	COMPRESSOR TIME DELAY
---	FACTORY CONTROL WIRING	CONT	CONTACTOR
----	FIELD CONTROL WIRING	CB	CIRCUIT BOARD
====	CONDUCTOR ON CIRCUIT BOARD	DFT	DEFOST THERMOSTAT
○	COMPONENT CONNECTION	DR	DEFOST RELAY AND CIRCUITRY
■	1/4-INCH QUICK CONNECT	*DTS	DISCHARGE TEMP. SWITCH
⏏	TERMINALS	*HPS	HIGH PRESSURE SWITCH
⏏	FIELD SPLICE	*LPS	LOW PRESSURE SWITCH
●	JUNCTION	OFM	OUTDOOR FAN MOTOR
CAP	CAPACITOR (DUAL RUN)	RVS	REVERSING VALVE SOLENOID
*CH	CRANKCASE HEATER	*SC	START CAPACITOR
*CHS	CRANKCASE HEATER SWITCH	*SR	START RELAY
		*ST	START THERMISTOR

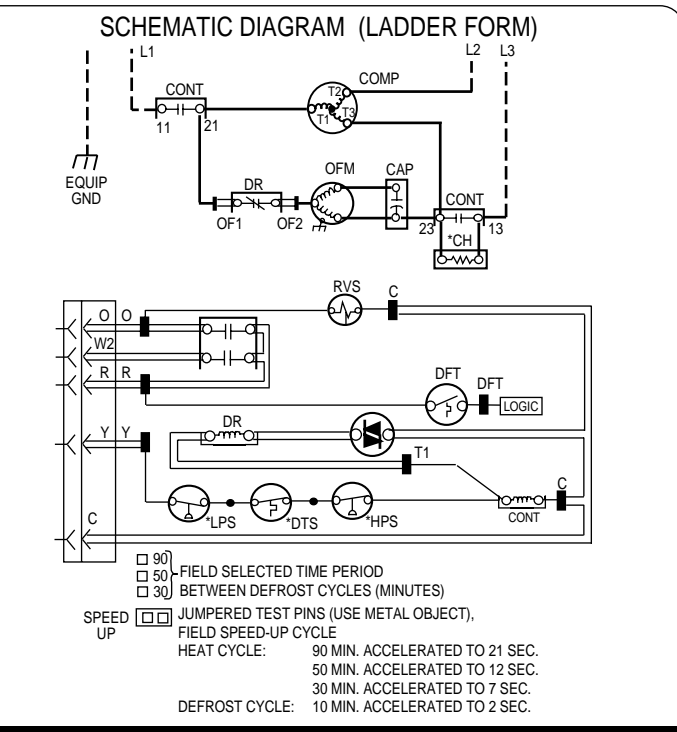
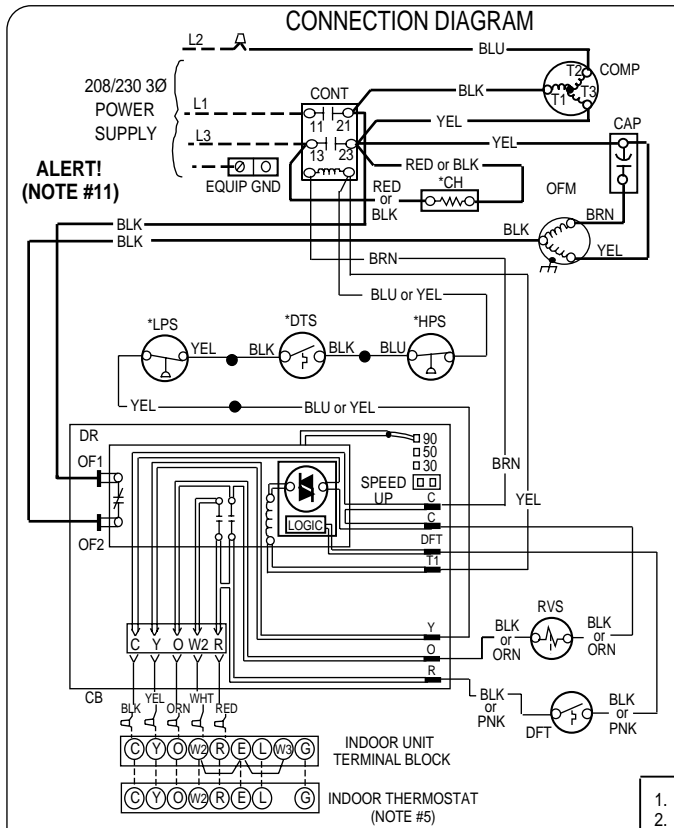
* MAY BE FACTORY OR FIELD INSTALLED.

CAUTION

- Compressor damage may occur if system is over charged.
- This unit is factory charged with R-22 in accordance with the amount shown on the rating plate. The charge is adequate for most systems using matched coils and tubing not over 15 feet long. The best performance will be achieved when the unit operates with a suction gas superheat at the compressor inlet of 5 °F at normal rating conditions of the air conditioning and refrigeration institute (ARI). This chart may be used to approximate the charge if ARI rating conditions cannot be obtained. ARI rating conditions are equivalent to DOE test "A" conditions. See product data literature for required indoor air flow rates and for use of line lengths over 15 Ft.
- Carefully relieve refrigerant pressure within this unit before final disposal.

Fig. 3—38YC(C, G, S, W) 060 (30, 31) 208-230v, 1 Phase, 60 Hertz

A97163



CAUTION

-LEGEND-

—	FACTORY POWER WIRING	CAP	CAPACITOR (RUN)
- - -	FIELD POWER WIRING	*CH	CRANKCASE HEATER
—	FACTORY CONTROL WIRING	COMP	COMPRESSOR
- - - -	FIELD CONTROL WIRING	CONT	CONTACTOR
==	CONDUCTOR ON CIRCUIT BOARD	CB	CIRCUIT BOARD
○	COMPONENT CONNECTION	DFT	DEFROST THERMOSTAT
■	1/4-INCH QUICK CONNECT	DR	DEFROST RELAY AND CIRCUITRY
●	TERMINALS	*DTS	DISCHARGE TEMP. SWITCH
⌞	FIELD SPLICE	*HPS	HIGH PRESSURE SWITCH
●	JUNCTION	*LPS	LOW PRESSURE SWITCH
		OFM	OUTDOOR FAN MOTOR
		RVS	REVERSING VALVE SOLENOID

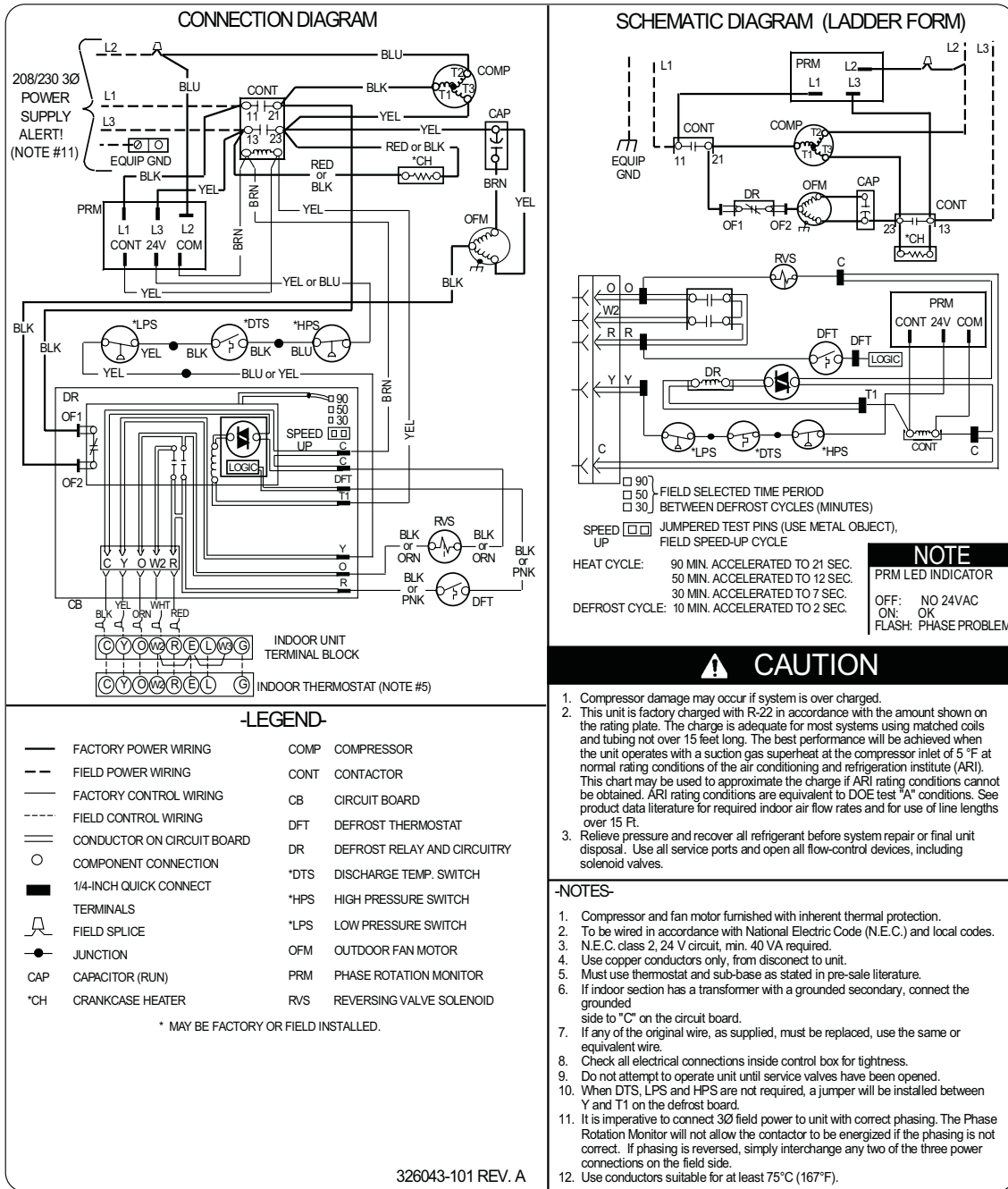
* MAY BE FACTORY OR FIELD INSTALLED.

- Compressor damage may occur if system is over charged.
- This unit is factory charged with R-22 in accordance with the amount shown on the rating plate. The charge is adequate for most systems using matched coils and tubing not over 15 feet long. The best performance will be achieved when the unit operates with a suction gas superheat at the compressor inlet of 5 °F at normal rating conditions of the air conditioning and refrigeration institute (ARI). This chart may be used to approximate the charge if ARI rating conditions cannot be obtained. ARI rating conditions are equivalent to DOE test "A" conditions. See product data literature for required indoor air flow rates and for use of line lengths over 15 Ft.
- Carefully relieve refrigerant pressure within this unit before final disposal.

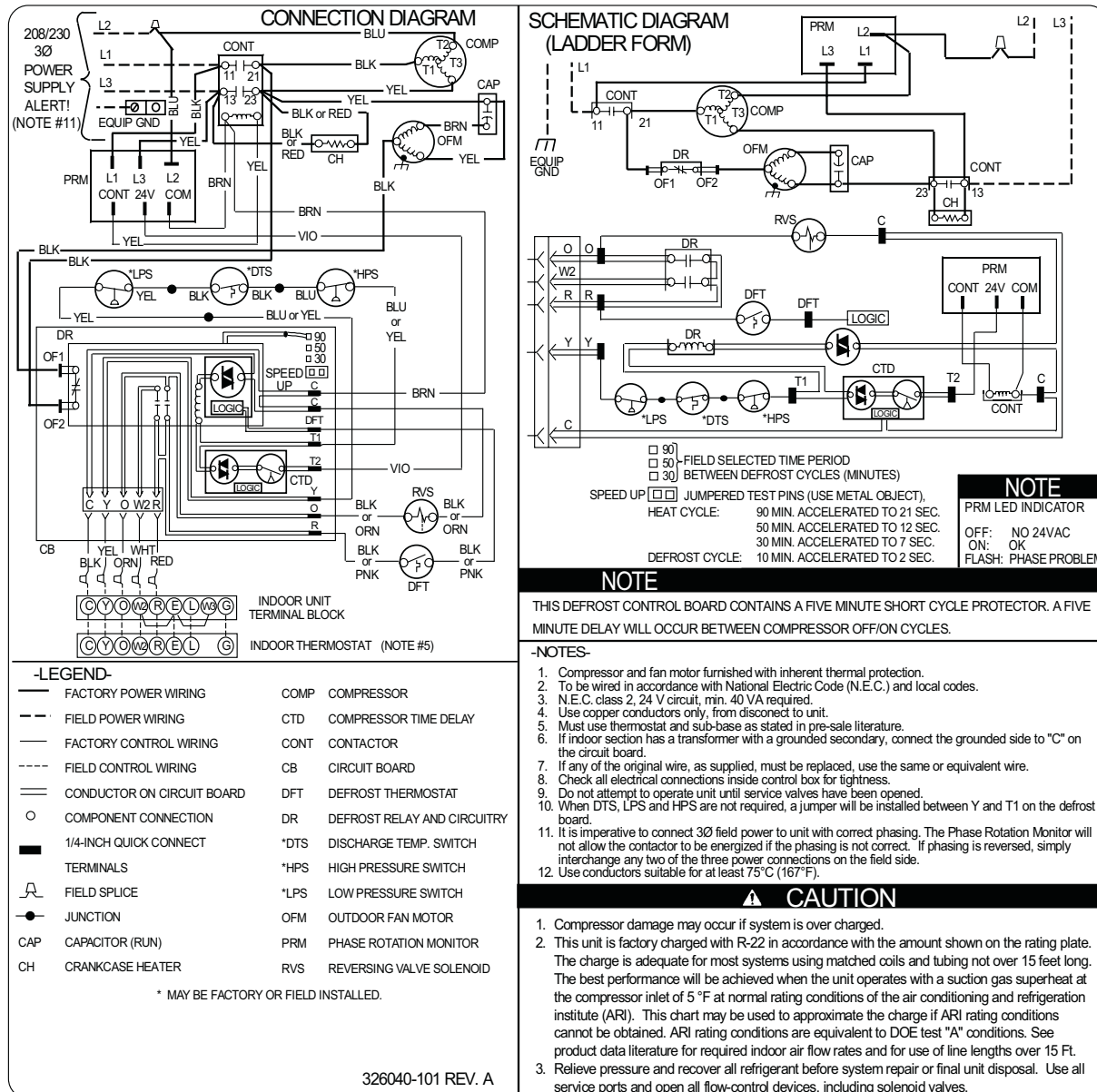
- #### -NOTES-
- Compressor and fan motor furnished with inherent thermal protection.
 - To be wired in accordance with National Electric Code (N.E.C.) and local codes.
 - N.E.C. class 2, 24 V circuit, min. 40 VA required.
 - Use copper conductors only, from disconnect to unit.
 - Must use thermostat and sub-base as stated in pre-sale literature.
 - If indoor section has a transformer with a grounded secondary, connect the grounded side to "C" on the circuit board.
 - If any of the original wire, as supplied, must be replaced, use the same or equivalent wire.
 - Check all electrical connections inside control box for tightness.
 - Do not attempt to operate unit until service valves have been opened.
 - When DTS, LPS and HPS are not required, a jumper will be installed between Y and T1 on the defrost board.
 - It is imperative to connect 3Ø field power to unit with correct phasing. Wrong phasing will cause reverse rotation of scroll compressor which will result in reduced current draw, elevated noise level and improper operation. If rotation is reversed, simply interchange any two of the three power connections on the field side.
 - Use conductors suitable for at least 75°C (167°F).
- 324460-101 REV. A

Fig. 4—38YC(C, W) 030 (50), 036 (50, 51, 52, 53), 042 (50, 51, 52, 53, 54), 048 (50, 51, 52), 060 (50, 51, 52) 208/230v, 3 Phase, 60 Hertz

A97591



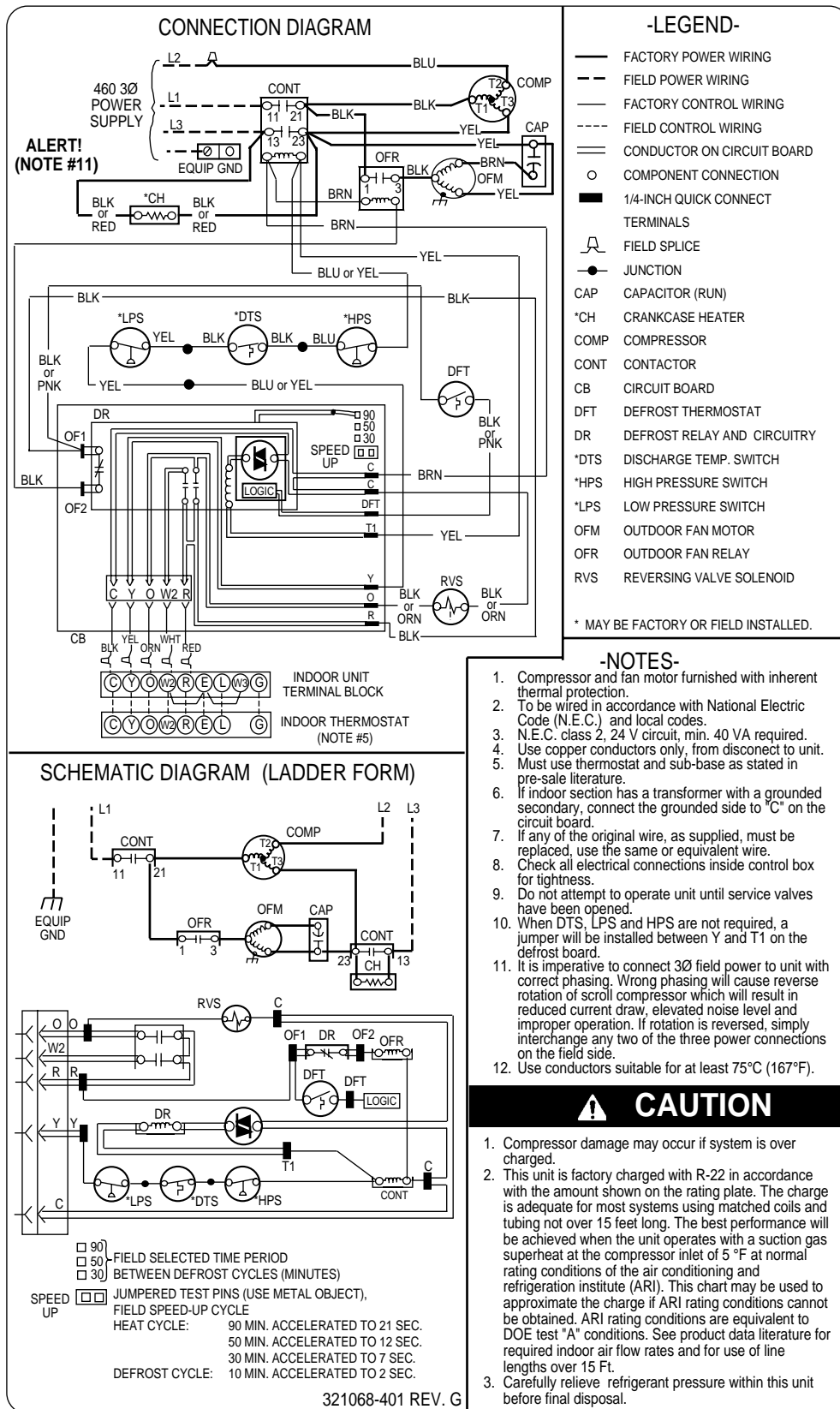
**Fig. 5—38YCC 036 (54), 042 (55, 56), 048-060 (53, 54), and
 38YCG 036 (53), 048-060 (53, 54)
 208/230v, 3 Phase, 60 Hertz**



326040-101 REV. A

**Fig. 6—38YCW 036 (54), 042 (55), 048-060 (53)
208/230v, 3 Phase, 60 Hertz**

A00047



A97164
Fig. 7—38YCC 036 (60, 61, 62, 63), 042 (60, 61, 62, 63, 64), 048 (60, 61, 62), 060 (60, 61, 62) 460v, 3 Phase, 60 Hertz

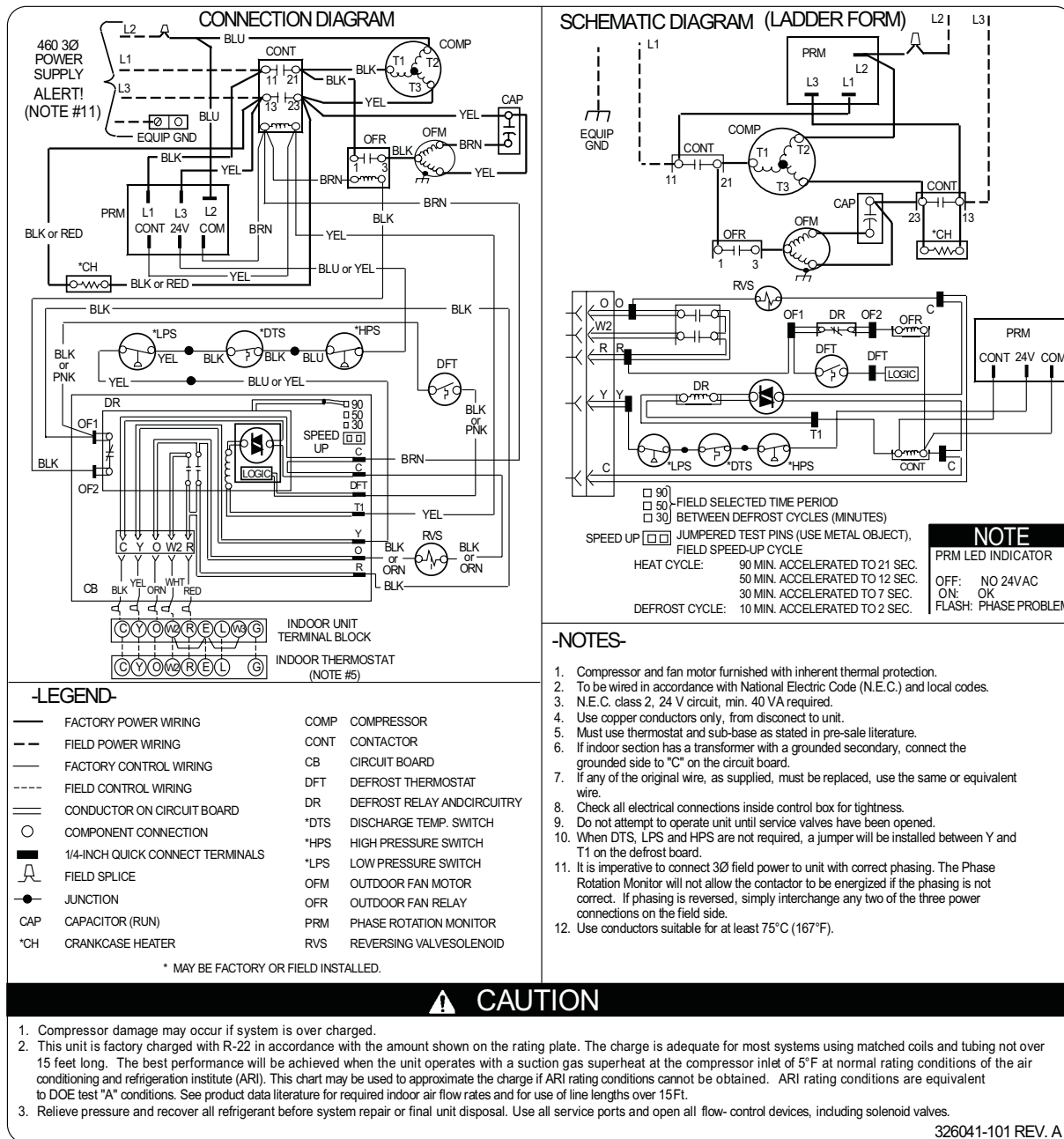


Fig. 8—38YCC 036 (64), 042 (65, 66) 048-060 (63, 64) and 38YCG 036 (63), 048-060 (63, 64) 460v, 3 Phase, 60 Hertz

A00046