WIRING DIAGRAM MANUAL
Split System Heat Pump
NXH6

Safety Labeling and Signal Words

DANGER, WARNING, CAUTION, and NOTE

The signal words **DANGER, WARNING, CAUTION,** and **NOTE** are used to identify levels of hazard seriousness. The signal word **DANGER** is only used on product labels to signify an immediate hazard. The signal words **WARNING, CAUTION,** and **NOTE** will be used on product labels and throughout this manual and other manuals that may apply to the product.

DANGER - Immediate hazards which **will** result in severe personal injury or death.

WARNING - Hazards or unsafe practices which **could** result in severe personal injury or death.

CAUTION - Hazards or unsafe practices which **may** result in minor personal injury or product or property damage.

NOTE - Used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

Signal Words in Manuals

The signal word **WARNING** is used throughout this manual in the following manner:

⚠ WARNING

The signal word **CAUTION** is used throughout this manual in the following manner:

⚠ CAUTION

Signal Words on Product Labeling

Signal words are used in combination with colors and/or pictures on product labels.

TABLE OF CONTENTS

⚠ WARNING

DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE HAZARD

Failure to carefully read and follow this warning could result in equipment malfunction, property damage, personal injury and/or death.

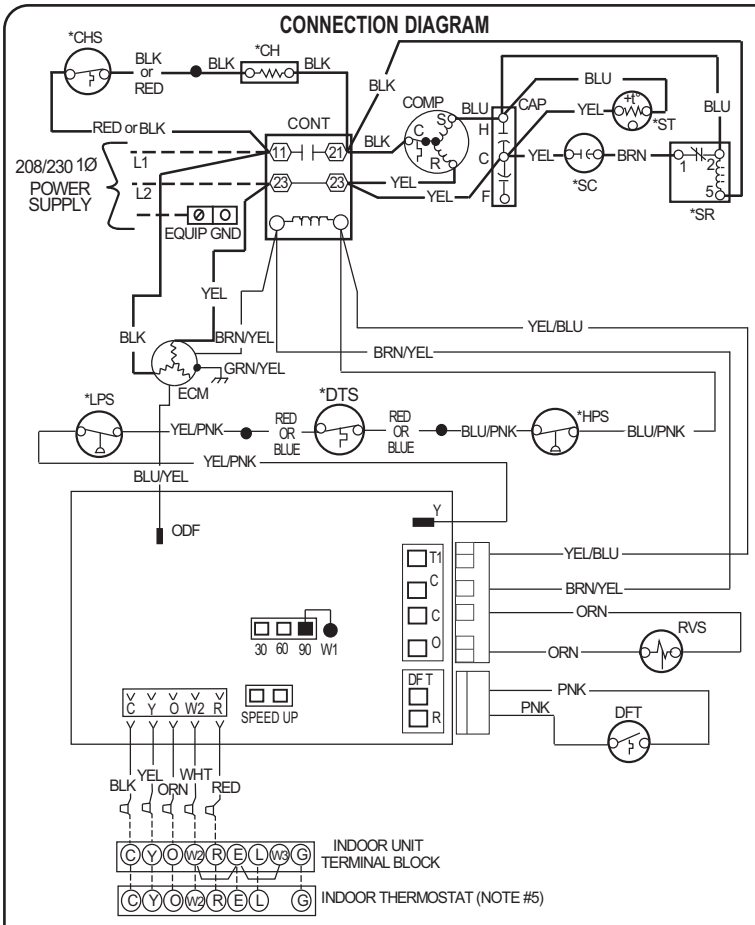
Installation or repairs made by unqualified persons could result in equipment malfunction, property damage, personal injury and/or death.

The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.

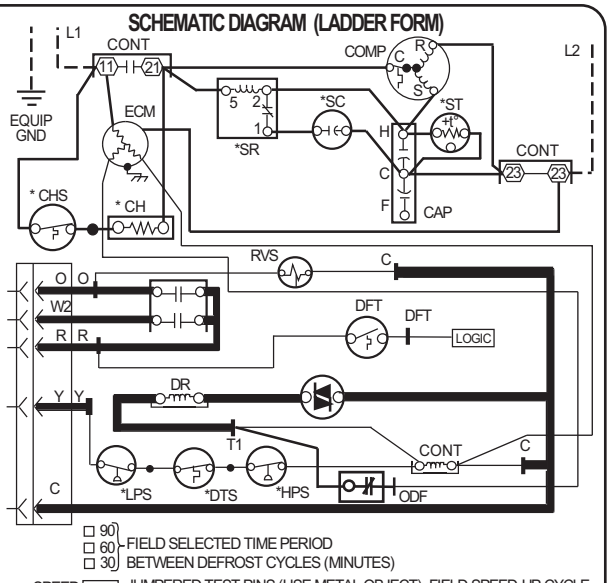
Installation must conform with local building codes and with the National Electrical Code NFPA70 current edition or Canadian Electrical Code Part 1 CSA C.22.1.

343211-101 USED ON MODELS: 208/230-60-1 phase Non-Communicating, using ECM Outdoor Fan Motor

CONNECTION DIAGRAM



SCHEMATIC DIAGRAM (LADDER FORM)



LEGEND

FACTORY POWER WIRING	*CH CRANKCASE HEATER
FACTORY CONTROL WIRING	*CHS CRANKCASE HEATER SWITCH
FIELD CONTROL WIRING	COMP COMPRESSOR
FIELD POWER WIRING	CONT CONTACTOR
CONDUCTOR ON CIRCUIT BOARD	DFT DEFROST THERMOSTAT
COMPONENT CONNECTION	DR DEFROST RELAY AND CIRCUITRY
1/4-IN QUICK CONNECT TERMINAL	*DTS DISCHARGE TEMP SWITCH
FIELD SPLICE	*HPS HIGH PRESSURE SWITCH
JUNCTION	*LPS LOW PRESSURE SWITCH
PLUG RECEPTACLE	RVS REVERSING VALVE SOLENOID
CB CIRCUIT BOARD	*SC START CAPACITOR
CAP CAPACITOR (CUAL RUN)	*SR START RELAY
	*ST START THERMISTOR
	ECM ELECTRONICALLY COMMUTATED MOTOR

*** MAY BE FACTORY OR FIELD INSTALLED**

NOTES:

1. Symbols are electrical representation only.
2. Compressor and fan motor furnished with inherent thermal protection.
3. To be wired in accordance with National Electric N.E.C. and local codes.
4. N.E.C. class 2, 24 V circuit, min. 40 VA required, 60 VA on units installed with LLS.
5. Use copper conductors only. Use conductors suitable for at least 75ºC (167ºF).
6. Must use thermostat and sub-base as stated in pre-sale literature.
7. If indoor section has a transformer with a grounded secondary, connect the grounded side to "C" on the circuit board.
8. If any of the original wire, as supplied, must be replaced, use the same or equivalent wire.
10. Check all electrical connections inside control box for tightness.
11. Do not attempt to operate unit until service valves have been opened.
12. Use conductors suitable for at least 75ºC (167ºF).

CONDENSING UNIT CHARGING INSTRUCTIONS

For use with units using R-410A refrigerant

REQUIRED LIQUID LINE TEMPERATURE

Liquid Pressure at Service Valve (psig)	Required Subcooling Temperature (ºF)					
	6	8	10	12	14	16
251	78	76	74	72	70	68
259	80	78	76	74	72	70
266	82	80	78	76	74	72
274	84	82	80	78	76	74
283	86	84	82	80	78	76
291	88	86	84	82	80	78
299	90	88	86	84	82	80
308	92	90	88	86	84	82
317	94	92	90	88	86	84
326	96	94	92	90	88	86
335	98	96	94	92	90	88
345	100	98	96	94	92	90
354	102	100	98	96	94	92
364	104	102	100	98	96	94
374	106	104	102	100	98	96
384	108	106	104	102	100	98
395	110	108	106	104	102	100
406	112	110	108	106	104	102
416	114	112	110	108	106	104
427	116	114	112	110	108	106
439	118	116	114	112	110	108
450	120	118	116	114	112	110
462	122	120	118	116	114	112
474	124	122	120	118	116	114

COOLING ONLY CHARGING PROCEDURE

1. Only use sub cooling charging method when OD ambient is greater than 70ºF and less than 100ºF, indoor temp is greater than 70ºF and less than 80ºF, and line set is less than 80 ft.
2. Operate unit a minimum of 15 minutes before checking the charge.
3. Measure liquid service valve pressure by attaching an accurate gauge to the service port.
4. Measure the liquid line temperature by attaching an accurate thermistor type or electronic thermometer to the liquid line near the outdoor coil.
5. Refer to unit rating plate for required subcooling temperature.
6. Find the point where the required subcooling temperature intersects the measured liquid service valve pressure.
7. To obtain the required subcooling temperature at specific liquid line pressure, add refrigerant if liquid line temperature is higher than indicated. When adding refrigerant, charge in liquid form using a flow restricting device into suction service port. Recover refrigerant if temperature is lower. Allow a tolerance of +/- 3ºF.

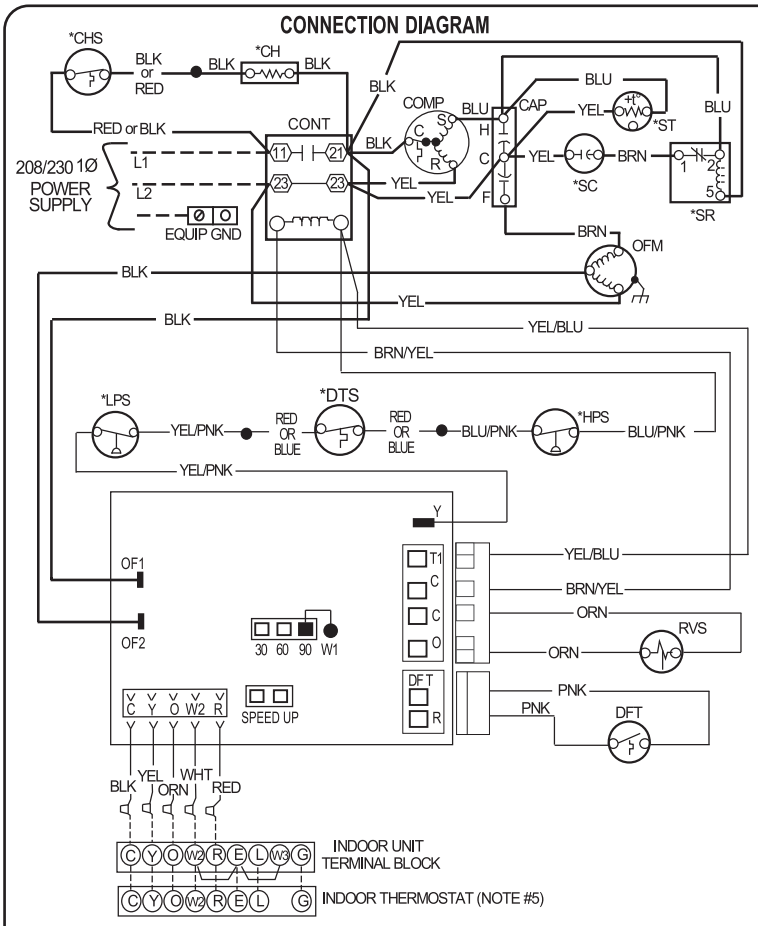
⚠ CAUTION

1. Compressor damage may occur if system is over charged.
2. This unit is factory charged with R-410A 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. Check refrigerant charge for maximum efficiency. See Product Data Literature for required Indoor air Flow Rates and for use of line lengths over 15 feet.
3. Relieve pressure and recover all refrigerant before system repair or final disposal. Use all service ports and open all flow-control devices, including solenoid valves.
4. Never vent refrigerant to atmosphere. Use approved recovery equipment.

343211-101 REV.B

339697-101 USED ON MODELS: 208/230-60-1 phase Non-Communicating, using PSC Outdoor Fan Motor

CONNECTION DIAGRAM



LEGEND

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

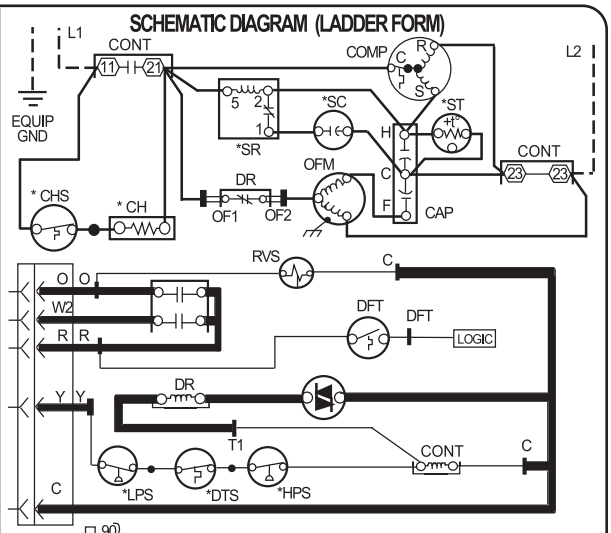
*** MAY BE FACTORY OR FIELD INSTALLED**

NOTES:

1. Symbols are electrical representation only.
2. Compressor and fan motor furnished with inherent thermal protection.
3. To be wired in accordance with National Electric N.E.C. and local codes.
4. N.E.C. class 2, 24 V circuit, min. 40 VA required, 60 VA on units installed with LLS.
5. Use copper conductors only. Use conductors suitable for at least 75ºC (167ºF).
6. Must use thermostat and sub-base as stated in pre-sale literature.
7. If indoor section has a transformer with a grounded secondary, connect the grounded side to "C" on the circuit board.
8. If any of the original wire, as supplied, must be replaced, use the same or equivalent wire.
10. Check all electrical connections inside control box for tightness.
11. Do not attempt to operate unit until service valves have been opened.
12. Use conductors suitable for at least 75ºC (167ºF).

339697-101 REV. B

SCHEMATIC DIAGRAM (LADDER FORM)



□ 90
□ 60 } FIELD SELECTED TIME PERIOD
□ 30 BETWEEN DEFROST CYCLES (MINUTES)

SPEED UP □□ JUMPERED TEST PINS (USE METAL OBJECT), FIELD SPEED-UP CYCLE
HEAT CYCLE: 90 MIN. ACCELERATED TO 21 SEC.
60 MIN. ACCELERATED TO 14 SEC.
30 MIN. ACCELERATED TO 7 SEC.
DEFROST CYCLE: 10 MIN. ACCELERATED TO 2 SEC.

CONDENSING UNIT CHARGING INSTRUCTIONS
For use with units using R-410A refrigerant

REQUIRED LIQUID LINE TEMPERATURE

Liquid Pressure at Service Valve (psig)	Required Subcooling Temperature (ºF)					
	6	8	10	12	14	16
251	78	76	74	72	70	68
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266	82	80	78	76	74	72
274	84	82	80	78	76	74
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299	90	88	86	84	82	80
308	92	90	88	86	84	82
317	94	92	90	88	86	84
326	96	94	92	90	88	86
335	98	96	94	92	90	88
345	100	98	96	94	92	90
354	102	100	98	96	94	92
364	104	102	100	98	96	94
374	106	104	102	100	98	96
384	108	106	104	102	100	98
395	110	108	106	104	102	100
406	112	110	108	106	104	102
416	114	112	110	108	106	104
427	116	114	112	110	108	106
439	118	116	114	112	110	108
450	120	118	116	114	112	110
462	122	120	118	116	114	112
474	124	122	120	118	116	114

COOLING ONLY CHARGING PROCEDURE

1. Only use sub cooling charging method when OD ambient is greater than 70ºF and less than 100ºF, indoor temp is greater than 70ºF and less than 80ºF, and line set is less than 80 ft.
2. Operate unit a minimum of 15 minutes before checking the charge.
3. Measure liquid service valve pressure by attaching an accurate gauge to the service port.
4. Measure the liquid line temperature by attaching an accurate thermistor type or electronic thermometer to the liquid line near the outdoor coil.
5. Refer to unit rating plate for required subcooling temperature.
6. Find the point where the required subcooling temperature intersects the measured liquid service valve pressure.
7. To obtain the required subcooling temperature at specific liquid line pressure, add refrigerant if liquid line temperature is higher than indicated. When adding refrigerant, charge in liquid form using a flow restricting device into suction service port. Recover refrigerant if temperature is lower. Allow a tolerance of +/- 3ºF.

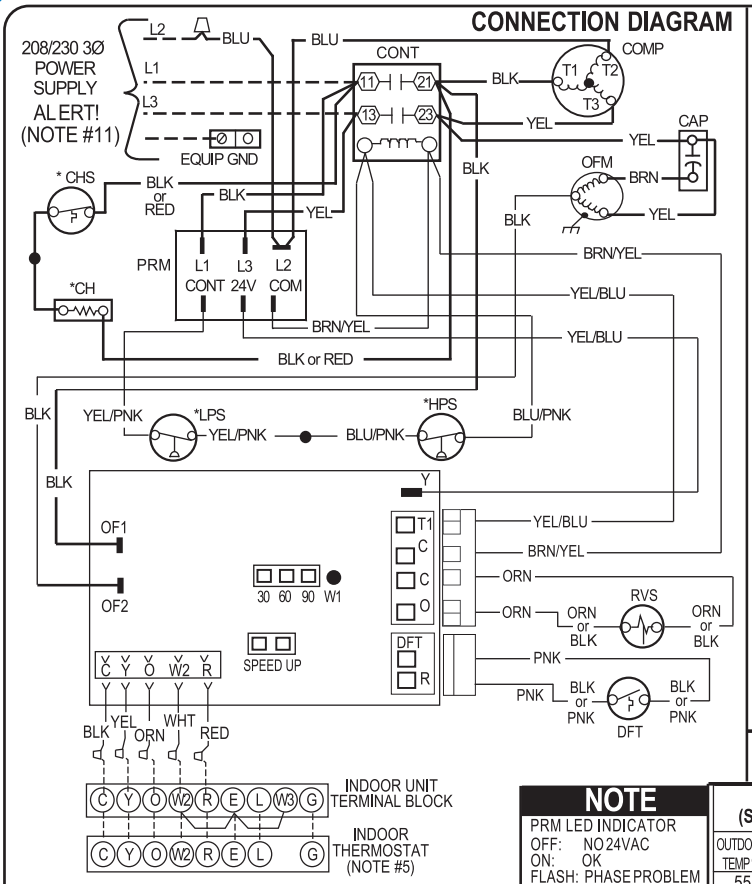
⚠ CAUTION

1. Compressor damage may occur if system is over charged.
2. This unit is factory charged with R-410A 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. Check refrigerant charge for maximum efficiency. See Product Data Literature for required Indoor air Flow Rates and for use of line lengths over 15 feet.
3. Relieve pressure and recover all refrigerant before system repair or final disposal. Use all service ports and open all flow-control devices, including solenoid valves.
4. Never vent refrigerant to atmosphere. Use approved recovery equipment.

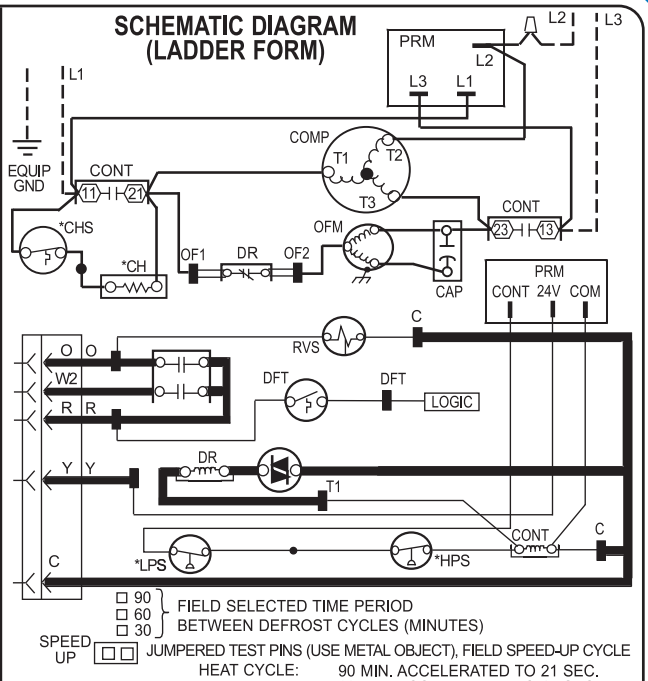
339697-101 REV. B

340293-101 USED ON MODELS: 208/230-60-3 phase, 3 & 4 Ton

CONNECTION DIAGRAM



SCHEMATIC DIAGRAM (LADDER FORM)



☐ 90 ☐ 60 ☐ 30 FIELD SELECTED TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES)

SPEED UP ☐☐ JUMPERED TEST PINS (USE METAL OBJECT), FIELD SPEED-UP CYCLE

HEAT CYCLE: 90 MIN. ACCELERATED TO 21 SEC.
60 MIN. ACCELERATED TO 14 SEC.
30 MIN. ACCELERATED TO 7 SEC.

DEFROST CYCLE: 10 MIN. ACCELERATED TO 2 SEC.

CONDENSING UNIT CHARGING INSTRUCTIONS
For use with units using R-410A refrigerant

NOTE

PRM LED INDICATOR
OFF: NO 24VAC
ON: OK
FLASH: PHASE PROBLEM

-LEGEND-

———	FACTORY POWER WIRING
- - -	FIELD POWER WIRING
———	FACTORY CONTROL WIRING
------	FIELD CONTROL WIRING
▬▬	CONDUCTOR ON CIRCUIT BOARD
○	COMPONENT CONNECTION
▬	1/4-IN QUICK CONNECT TERMINALS
	FIELD SPLICE
—●—	JUNCTION

CAP	CAPACITOR
*CH	CRANKCASE HEATER
*CHS	CRANKCASE HEATER SWITCH
COMP	COMPRESSOR
CONT	CONTACTOR
CB	CIRCUIT BOARD
DFT	DEFROST THERMOSTAT
DR	DEFROST RELAY & CIRCUITRY
*HPS	HIGH PRESSURE SWITCH
*LPS	LOW PRESSURE SWITCH
OFM	OUTDOOR FAN MOTOR
PRM	PHASE ROTATION
RVS	REVERSING VALVE SOLENOID

*** MAY BE FACTORY OR FIELD INSTALLED**

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, 24V circuit, min. 40 VA required, 60 VA on units installed with LLS.
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. It is imperative to connect 3Ø field power to unit with correct phasing. The Phase Rotation Monitor will not allow the contactor to be energized if the phasing is not correct. If phasing is reversed, simply interchange any two of the three power connections on the field side.
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-410A 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. Check refrigerant charge for maximum efficiency. See Product Data Literature for required Indoor air Flow Rates and for use of line lengths over 15 feet.
3. Relieve pressure and recover all refrigerant before system repair or final disposal. Use all service ports and open all flow-control devices, including solenoid valves.
4. Never vent refrigerant to atmosphere. Use approved recovery equipment.

TABLE I - SUPERHEAT CHARGING TABLE (SUPERHEAT °F AT LOW-SIDE SERVICE PORT)

OUTDOOR TEMP °F	EVAPORATOR ENTERING AIR ° F WB.													
	50	52	54	56	58	60	62	64	67	68	70	72	74	76
55	11	11	12	12	12	13	17	20	24	24	25	25	25	25
60	6	6	7	7	7	7	12	16	21	22	23	23	23	23
65	--	--	--	--	--	3	7	12	18	19	21	21	22	22
70	--	--	--	--	--	--	--	7	14	16	18	20	20	20
75	--	--	--	--	--	--	--	3	11	13	16	18	18	19
82	--	--	--	--	--	--	--	--	*6	8	12	15	16	17
85	--	--	--	--	--	--	--	--	4	7	11	14	15	16
90	--	--	--	--	--	--	--	--	--	4	8	12	14	15
95	--	--	--	--	--	--	--	--	--	--	6	10	12	14
100	--	--	--	--	--	--	--	--	--	--	4	8	11	12
105	--	--	--	--	--	--	--	--	--	--	3	6	9	11
110	--	--	--	--	--	--	--	--	--	--	--	5	7	10
115	--	--	--	--	--	--	--	--	--	--	3	6	8	

Where a dash (- -) appears do not attempt to charge system under these conditions or refrigerant slugging may occur. Charge must be weighed in.
Note: Superheat °F is at low-side service port, allow a tolerance of +/- 3 °F
Note: Indoor dry bulb between 70 °F and 80 °F
* Optimum performance point, 82 °F outdoor ambient and (80 °F dry bulb), (67 °F wet bulb) indoor conditions. (DOE B Test Conditions)

TABLE II - REQUIRED SUCTION TUBE TEMPERATURE °F (MEASURED AT LOW-SIDE SERVICE PORT)

SUPERHEAT TEMP. °F	SUCTION PRESSURE AT SERVICE PORT PSIG.								
	108	112	117	121	126	131	139	141	146
0	35	37	39	41	43	45	47	49	51
2	37	39	41	43	45	47	49	51	53
4	39	41	43	45	47	49	51	53	55
6	41	43	45	47	49	51	53	55	57
8	43	45	47	49	51	53	55	57	59
10	45	47	49	51	53	55	57	59	61
12	47	49	51	53	55	57	59	61	63
14	49	51	53	55	57	59	61	63	65
16	51	53	55	57	59	61	63	65	67
18	53	55	57	59	61	63	65	67	69
20	55	57	59	61	63	65	67	69	71
22	57	59	61	63	65	67	69	71	73
24	59	61	63	65	67	69	71	73	75
26	61	63	65	67	69	71	73	75	77
28	63	65	67	69	71	73	75	77	79
30	65	67	69	71	73	75	77	79	81

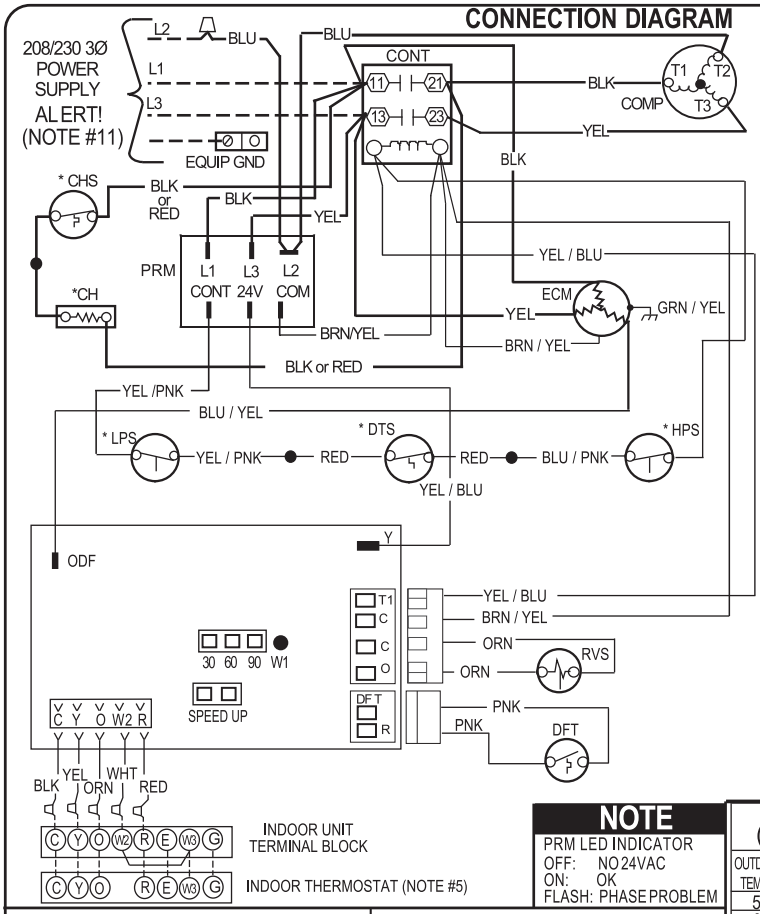
COOLING ONLY CHARGING PROCEDURE

1. Operate unit a minimum of 10 minutes before checking charge.
2. Measure suction pressure by attaching an accurate gage to suction valve service port.
3. Measure suction temperature by attaching an accurate thermistor type or electronic thermometer to the suction line at service valve.
4. Measure outdoor air dry-bulb temperature with a thermometer.
5. Measure indoor air (entering indoor coil) wet-bulb temperature with a sling psychrometer.
6. Refer to Table I. Find outdoor temperature and evaporator entering air wet-bulb temperature. At this intersection, note superheat. Where a dash (- -) appears on table do not attempt to charge system under these conditions or refrigerant slugging may occur. Charge must be weighed in, adding or removing 0.6 oz/ft of 3/8 liquid line above or below 15 ft. respectively.
7. Refer to Table II. Find superheat temperature located in step 6 and suction pressure. At this intersection note suction line temperature.
8. If unit has a higher suction line temperature than charted temperature, add refrigerant until charted temperature is reached.
9. If unit has a lower suction line temperature than charted temperature, remove and recover refrigerant until charted temperature is reached.
10. When adding refrigerant, charge in liquid form into the suction service port using a flow-restricting device.
11. If outdoor air temperature or pressure at suction valve changes, charge to new suction line temperature indicated on chart.
12. This procedure is valid when indoor air flow is within +/- 21% of its rated cfm

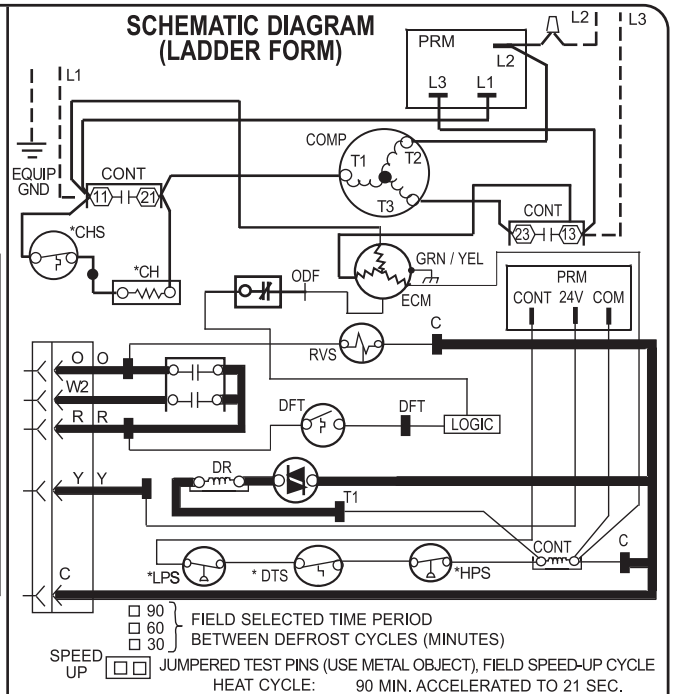
340293-101 REV. B

343840-101 USED ON MODELS: 208/230- 60- 3 phase, 5 Ton

CONNECTION DIAGRAM



SCHEMATIC DIAGRAM (LADDER FORM)



HEAT CYCLE: 90 MIN. ACCELERATED TO 21 SEC.
60 MIN. ACCELERATED TO 14 SEC.
30 MIN. ACCELERATED TO 7 SEC.
DEFROST CYCLE: 10 MIN. ACCELERATED TO 2 SEC.

CONDENSING UNIT CHARGING INSTRUCTIONS
For use with units using R-410A refrigerant

NOTE
PRM LED INDICATOR
OFF: NO 24VAC
ON: OK
FLASH: PHASE PROBLEM

TABLE I - SUPERHEAT CHARGING TABLE (SUPERHEAT °F AT LOW-SIDE SERVICE PORT)

OUTDOOR	EVAPORATOR ENTERING AIR ° F WB.													
TEMP °F	50	52	54	56	58	60	62	64	67	68	70	72	74	76
55	11	11	12	12	12	13	17	20	24	24	25	25	25	25
60	6	6	7	7	7	7	12	16	21	22	23	23	23	23
65	--	--	--	--	--	3	7	12	18	19	21	21	22	22
70	--	--	--	--	--	--	--	7	14	16	18	20	20	20
75	--	--	--	--	--	--	--	3	11	13	16	18	18	19
82	--	--	--	--	--	--	--	--	*6	8	12	15	16	17
85	--	--	--	--	--	--	--	--	4	7	11	14	15	16
90	--	--	--	--	--	--	--	--	--	4	8	12	14	15
95	--	--	--	--	--	--	--	--	--	--	6	10	12	14
100	--	--	--	--	--	--	--	--	--	--	4	8	11	12
105	--	--	--	--	--	--	--	--	--	--	3	6	9	11
110	--	--	--	--	--	--	--	--	--	--	--	5	7	10
115	--	--	--	--	--	--	--	--	--	--	3	6	8	

Where a dash (- -) appears do not attempt to charge system under these conditions or refrigerant slugging may occur. Charge must be weighed in.
Note: Superheat °F is at low-side service port, allow a tolerance of +/- 3 °F
Note: Indoor dry bulb between 70 °F and 80 °F
* Optimum performance point, 82 °F outdoor ambient and (80 °F dry bulb), (67 °F wet bulb) indoor conditions. (DOE B Test Conditions)

TABLE II - REQUIRED SUCTION TUBE TEMPERATURE °F (MEASURED AT LOW-SIDE SERVICE PORT)

SUPERHEAT	SUCTION PRESSURE AT SERVICE PORT PSIG.								
TEMP. °F	108	112	117	121	126	131	139	141	146
0	35	37	39	41	43	45	47	49	51
2	37	39	41	43	45	47	49	51	53
4	39	41	43	45	47	49	51	53	55
6	41	43	45	47	49	51	53	55	57
8	43	45	47	49	51	53	55	57	59
10	45	47	49	51	53	55	57	59	61
12	47	49	51	53	55	57	59	61	63
14	49	51	53	55	57	59	61	63	65
16	51	53	55	57	59	61	63	65	67
18	53	55	57	59	61	63	65	67	69
20	55	57	59	61	63	65	67	69	71
22	57	59	61	63	65	67	69	71	73
24	59	61	63	65	67	69	71	73	75
26	61	63	65	67	69	71	73	75	77
28	63	65	67	69	71	73	75	77	79
30	65	67	69	71	73	75	77	79	81

COOLING ONLY CHARGING PROCEDURE

1. Operate unit a minimum of 10 minutes before checking charge.
2. Measure suction pressure by attaching an accurate gage to suction valve service port.
3. Measure suction temperature by attaching an accurate thermistor type or electronic thermometer to the suction line at service valve.
4. Measure outdoor air dry-bulb temperature with a thermometer.
5. Measure indoor air (entering indoor coil) wet-bulb temperature with a sling psychrometer.
6. Refer to Table I. Find outdoor temperature and evaporator entering air wet-bulb temperature. At this intersection, note superheat. Where a dash (- -) appears on table do not attempt to charge system under these conditions or refrigerant slugging may occur. Charge must be weighed in, adding or removing 0.6 oz/ft of 3/8 liquid line above or below 15 ft. respectively.
7. Refer to Table II. Find superheat temperature located in step 6 and suction pressure. At this intersection note suction line temperature.
8. If unit has a higher suction line temperature than charted temperature, add refrigerant until charted temperature is reached.
9. If unit has a lower suction line temperature than charted temperature, remove and recover refrigerant until charted temperature is reached.
10. When adding refrigerant, charge in liquid form into the suction service port using a flow-restricting device.
11. If outdoor air temperature or pressure at suction valve changes, charge to new suction line temperature indicated on chart.
12. This procedure is valid when indoor air flow is within +/- 21% of its rated cfm

-LEGEND-

———	FACTORY POWER WIRING
- - -	FIELD POWER WIRING
———	FACTORY CONTROL WIRING
-----	FIELD CONTROL WIRING
▬	CONDUCTOR ON CIRCUIT BOARD
○	COMPONENT CONNECTION
▬	1/4-IN QUICK CONNECT TERMINALS
	FIELD SPLICE
—●—	JUNCTION

*CH	CRANKCASE HEATER
*CHS	CRANKCASE HEATER SWITCH
COMP	COMPRESSOR
CONT	CONTACTOR
CB	CIRCUIT BOARD
DFT	DEFROST THERMOSTAT
DR	DEFROST RELAY & CIRCUITRY
*HPS	HIGH PRESSURE SWITCH
*LPS	LOW PRESSURE SWITCH
OFM	OUTDOOR FAN MOTOR
PRM	PHASE ROTATION
RVS	REVERSING VALVE SOLENOID
*DTS	DISCHARGE TEMPERATURE SWITCH

*** MAY BE FACTORY OR FIELD INSTALLED**

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, 24V circuit, min. 40 VA required, 60 VA on units installed with LLS.
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. It is imperative to connect 3Ø field power to unit with correct phasing. The Phase Rotation Monitor will not allow the contactor to be energized if the phasing is not correct. If phasing is reversed, simply interchange any two of the three power connections on the field side.
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-410A 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. Check refrigerant charge for maximum efficiency. See Product Data Literature for required Indoor air Flow Rates and for use of line lengths over 15 feet.
3. Relieve pressure and recover all refrigerant before system repair or final disposal. Use all service ports and open all flow-control devices, including solenoid valves.
4. Never vent refrigerant to atmosphere. Use approved recovery equipment.

343840-101 REV.A