



SERVICE AND APPLICATION NOTES

100077
March 2, 2023

Possible Incorrect Wiring Diagram – Certain LRP14HP Units

AFFECTED UNITS:

LRP14HP36 and 60 Residential Packaged Heat Pump Units – Serial Numbers 1622M16629 - 1623A28448

ISSUE:

We have been made aware that some of the 3- and 5-ton packaged heat pump units listed above may have been manufactured with the incorrect unit wiring diagram installed (marked as Diagram 1 on following page). The unit wiring diagram label is located on the inside of the heating compartment panel, and is also included in the Installation Instructions. For reference, the following page has examples of both the correct diagram and incorrect wiring diagram.

SOLUTION:

If you encounter one of the above-referenced packaged heat pump units that has the incorrect wiring diagram installed, please reach out to your Field Technical Consultant and request the correct unit wiring diagram and Installation Instruction.

Examples of correct and incorrect wiring diagrams on following page.

For further information, contact Lennox Technical Support at 800.453.6669.

(See instructions or markings on System Diagnostic Module for codes of System Diagnostic Module)

Condition	ONE SWITCH	TWO SWITCH
No Power to Control	OFF	OFF
Normal Operation / Power to Control	Steady Green / Slow Flash	
Start-Stop Cycle Lockout	Alternate Slow Flash	
Low Pressure Switch Fault	OFF	Slow Flash
Low Pressure Switch Lockout	OFF	ON
High Pressure Switch Fault	Slow Flash	OFF
High Pressure Switch Lockout	ON	OFF

Note: Because the Pressure Switches are monitored only when "PI (Input)" is active, the code for pressure switch open still *not* be seen when "PI" is off. Instead, the "Normal Operation" or "Normal Shutdown" will be seen.

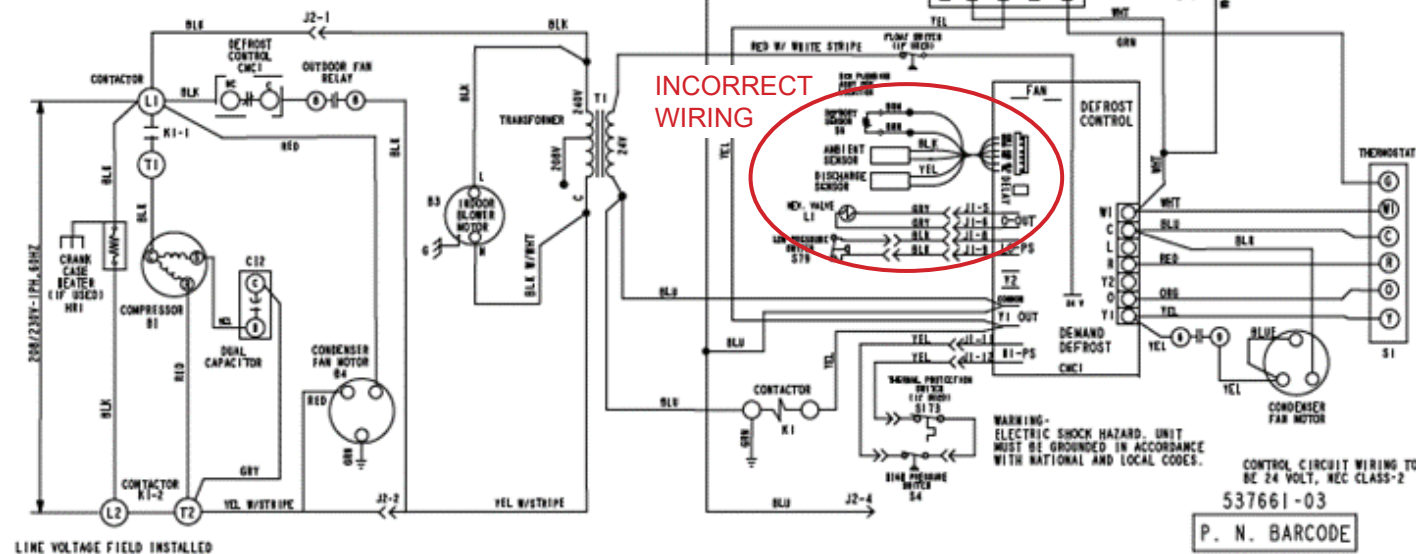
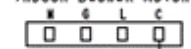
Also, when a pressure switch opens and causes a short cycle lockout, the pressure switch-open code will be sent until 10 closes, then the short cycle lockout code will flash unless it has already expired.

J1: PLUG THROUGH CONTROL PANEL (12 PIN)
J2: PLUG FOR ACCESSORY HEAT (6 PIN)

CONNECTION DIAGRAM, HEAT PUMP
CONSTANT TORQUE BLOWER, SINGLE PHASE

NOTE: TAP1 FOR FAN ONLY
TAP 2 FOR COOLING
TAP3 FOR HIGH STATIC COOLING
TAP4 AND TAP5 FOR ELECTRIC SEAT- REFER TO SEATING LABEL

NOTE:
IF ANY OF THE ORIGINAL
WIRE IS REPLACED THE
SAME SIZE AND TYPE WIRE
MUST BE USED.
USE COPPER CONDUCTOR
ONLY. MIN 75°C WIRE



LINE VOLTAGE FIELD INSTALLED

ELECTRIC SHOCK HAZARD. UNIT
MUST BE GROUNDED IN ACCORDANCE
WITH NATIONAL AND LOCAL CODES.

CONTROL CIRCUIT WIRING TO
BF 24 VOLT. WPC CLASS-2

537661-03

P. N. BARCODE

(See instructions or markings on System Diagnostic Module for codes of System Diagnostic Module)

Condition	ONE SWITCH	TWO SWITCH
No Power to Control	OFF	OFF
Normal Operation / Power to Control	Simultaneous Slow Flash	
Auto-Short Cycle Lockout	Alternate Slow Flash	
Low Pressure Switch Fault	OFF	Slow Flash
Low Pressure Switch Lockout	OFF	ON
High Pressure Switch Fault	Slow Flash	OFF
High Pressure Switch Lockout	ON	OFF

Notes: Because the Pressure Delites are monitored only when "PI" (Iap) is active, the code for pressure switch open will not be seen when "PI" is off. Instead, the "Normal Operation" or "Iap" Short Cycle" code will be seen.

Also, after a previous collect operation and caused a short cycle instead. The previous collect-operation will be done until it claims, then the short cycle instead code will finish unless it has already entered.

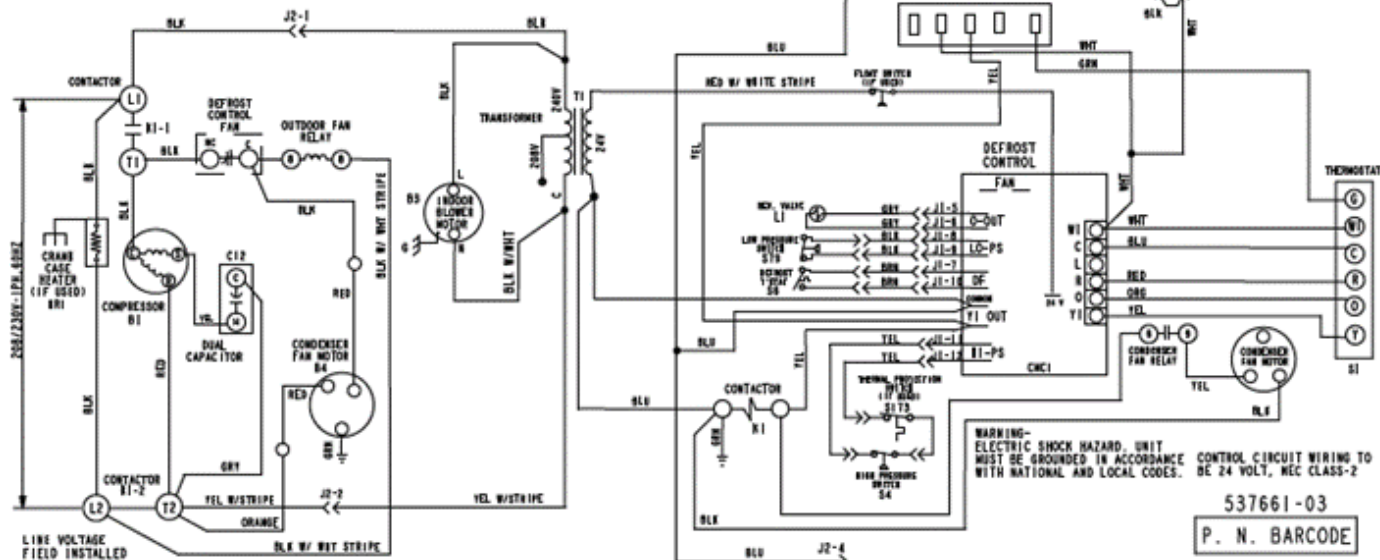
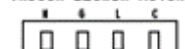
J1: PLUG THROUGH CONTROL PANEL (12 PIN)
J2: PLUG FOR ACCESSORY HEAT (8 PIN)

J2: PLUG FOR ACCESSORY HEAT (6 PIN)

CONNECTION DIAGRAM, HEAT PUMP
CONSTANT TORQUE BLOWER, SINGLE PHASE

NOTE: TAP1 FOR FAN ONLY
TAP 2 FOR COOLING
TAP3 FOR HIGH STATIC COOLING
TAP4 AND TAP5 FOR ELECTRIC HEAT- REFER TO SEATING LABEL

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LINE VOLTAGE
FIELD INSTALLED

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537661-03

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