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GAS UNITS KITS & ACCESSORIES

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INTEGRATED CONTROL REPLACEMENT KIT

INSTALLATION INSTRUCTIONS FOR INTEGRATED CONTROL REPLACEMENT KIT (22K51) USED WITH COMMUNICATING ENABLED SL280UHV, SL280DFV, EL296UHV and EL296DFV UNITS

WARNING

This conversion kit is to be installed by a licensed professional service technician (or equivalent) or other qualified agency in accordance with the manufacturer's instructions, all codes and requirements of the authority having jurisdiction.

Shipping and Packing List

Package 1 of 1 contains:

- 1 - Integrated control - 107045-XX (two-digit suffix) -
- 1 - Diagnostic sticker 107343-XX (two-digit suffix)

Application

Use replacement integrated control kit (22K51) with communicating enabled SL280 and EL296 units. This control is designed for use with a 120V ignitor only. Do not install this integrated control in a furnace equipped with a 95V ignitor. Integrated control 107045 (two-digit suffix) can be used in communicating or non-communicating applications.

Installation

WARNING

Protect the control from direct contact with water. If the control has been in direct contact with water, replace the control.

WHEN SERVICING CONTROLS, label all wires prior to disconnecting. Wiring errors can cause improper and dangerous operation.

VERIFY proper operation after servicing.

WARNING

Disconnect power before servicing unit. Shut off main gas supplies to appliance until installation is complete.

ELECTROSTATIC DISCHARGE (ESD) Precautions and Procedures

CAUTION



Electrostatic discharge can affect electronic components. Take precautions to neutralize electrostatic charge by touching your hand and tools to metal prior to handling the control.

- 1 - Turn off electrical and gas supplies to the furnace.
- 2 - Remove the access panel and the control box cover. Label the wires before disconnecting.
- 3 - Disconnect the wires and harness connectors from the existing control.
- 4 - Remove control by unlatching the two mounting legs on the right side of the control and then rotate the control toward you.
- 5 - Replace with the provided control and reconnect the marked wires and harness connectors.
- 6 - Replace the current diagnostic sticker with provided diagnostic sticker.
- 7 - Restore electrical and gas supplies to the furnace.

Non-Communicating System

For non-communicating applications set all DIP switch settings and on-board links exactly as the control being replaced.

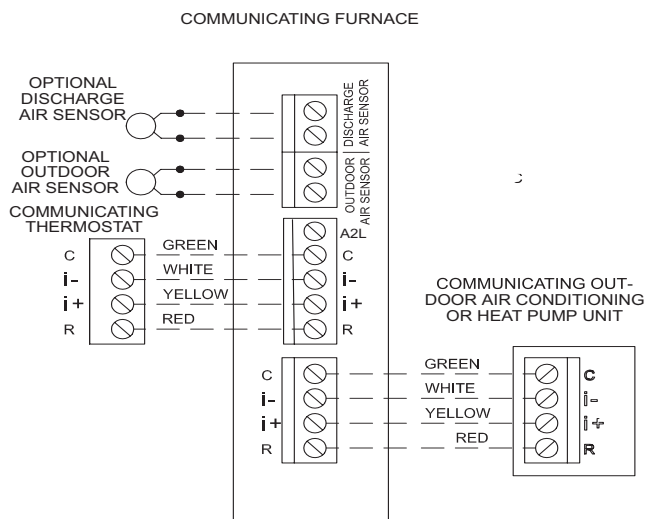
When replacing the control in a non-communicating system, it must be configured using the flow chart on page 4.

WARNING

Ensure proper earth grounding of appliance. Ensure proper connection of line neutral and line hot wires.



Communicating Enabled Furnace and Communicating Enabled Outdoor Unit



Use wire nuts to bundle the four unused wires at each end of the cable. A single wire should then be connected to the indoor unit end of the wire bundle and attached to the "C" terminals as shown below.

Outdoor Unit

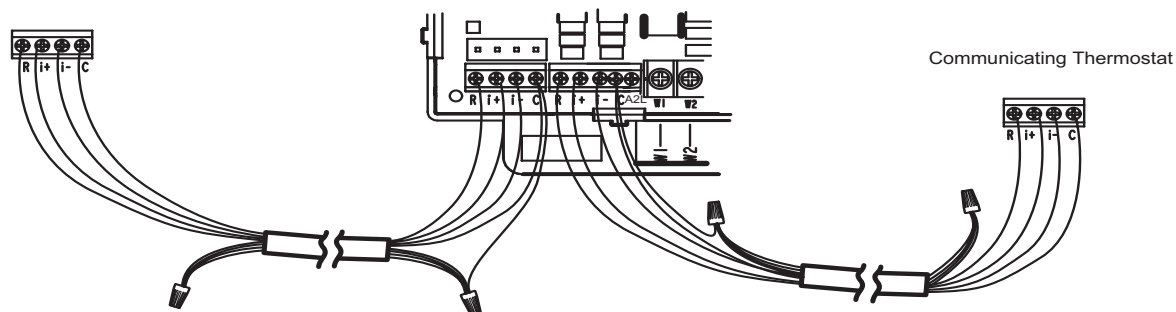


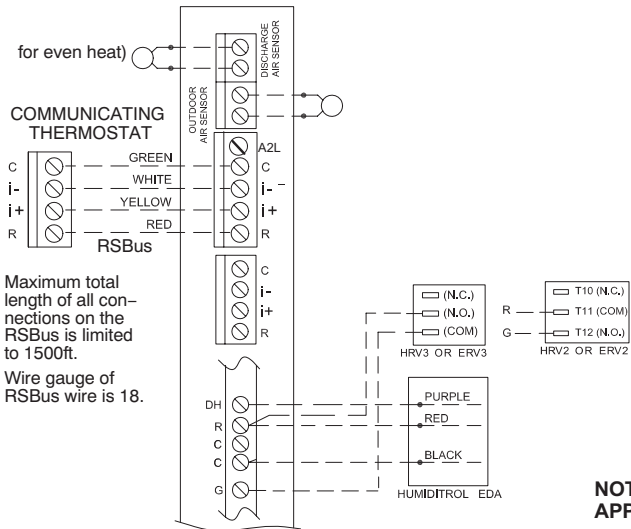
FIGURE 1

Optional Accessories for use with Communicating System

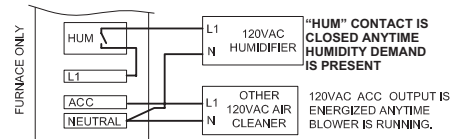
NOTE: COMMUNICATING THERMOSTAT SENSES HUMIDITY & CONTROLS HUM CONTACTS TO CYCLE HUMIDIFIER BASED ON DEMAND. NO OTHER CONTROL OR HUMIDISTAT REQUIRED.

OPTIONAL OUTDOOR AIR SENSOR FOR USE WITH HUMIDIFIER (IF NOT ALREADY IN THE SYSTEM FOR OTHER FUNCTIONS. BUILT INTO ALL COMMUNICATING ENABLED OUTDOOR UNITS).

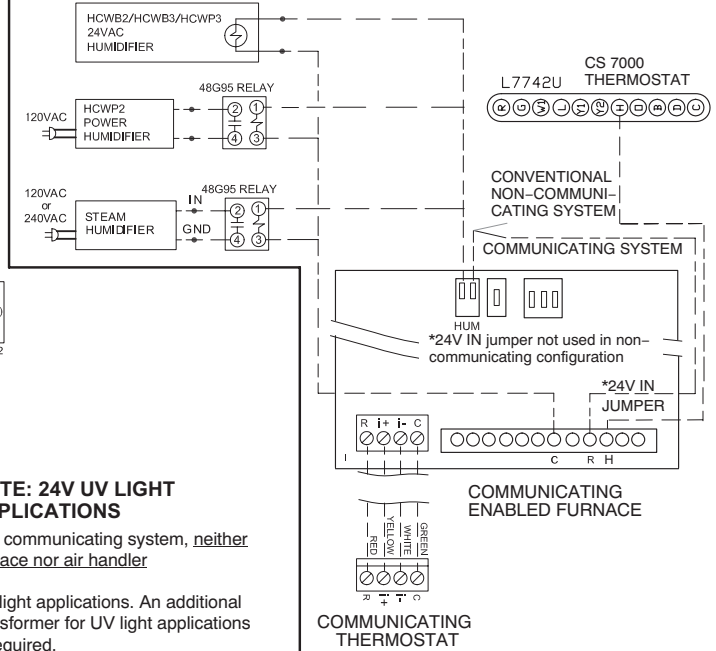
COMMUNICATING ENABLED FURNACE



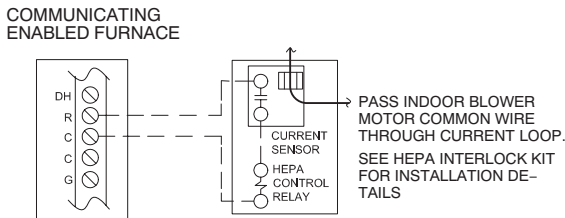
120V CONNECTIONS



24V HUMIDIFIER CONNECTIONS



HEPA BYPASS FILTER X2680 HEPA INTERLOCK KIT



LVCS VENTILATION CONTROL SYSTEM

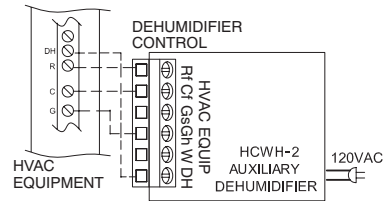
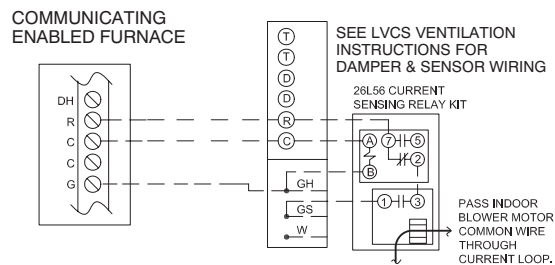


FIGURE 2

Program Unit Capacity/Size Mode

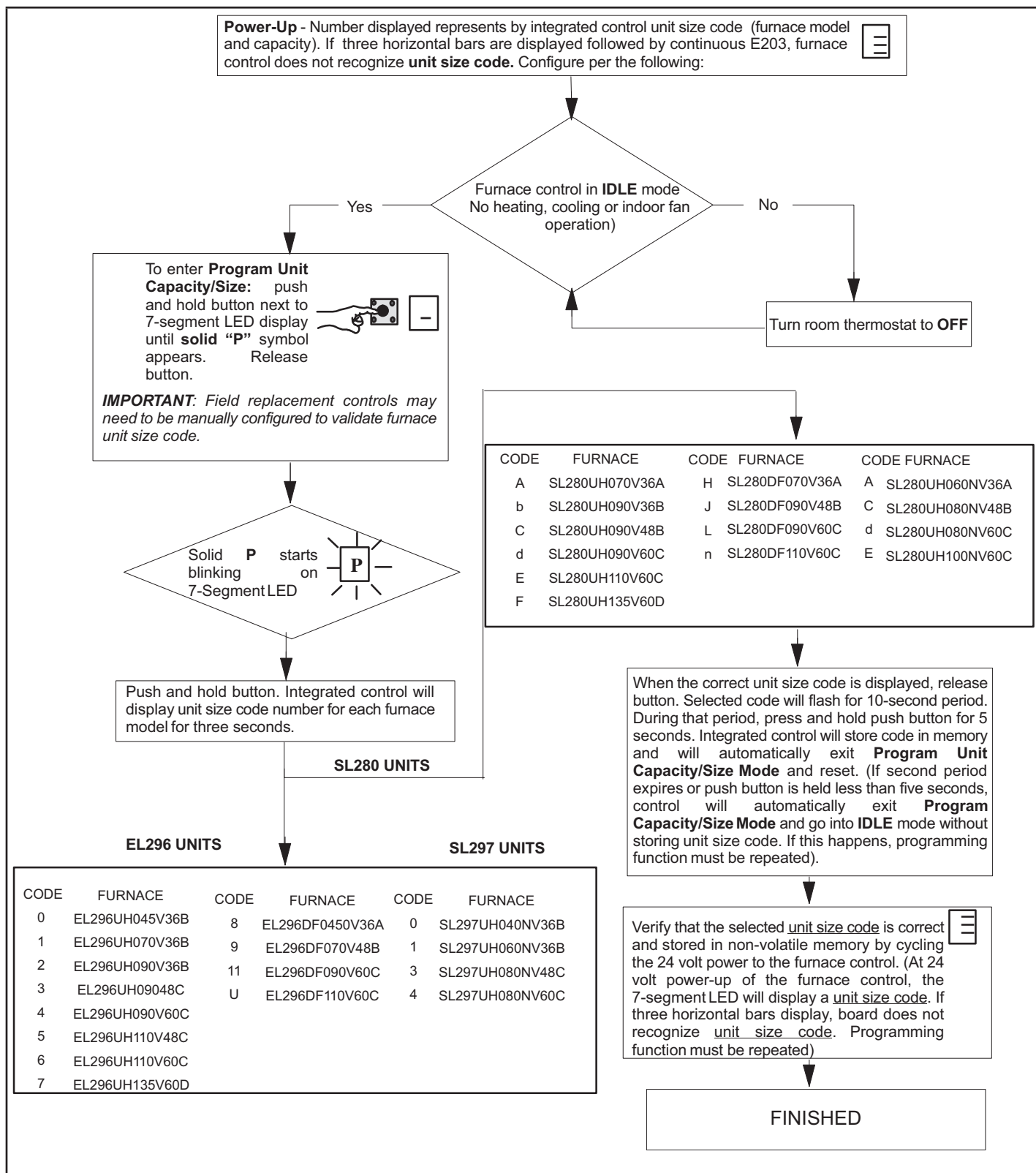
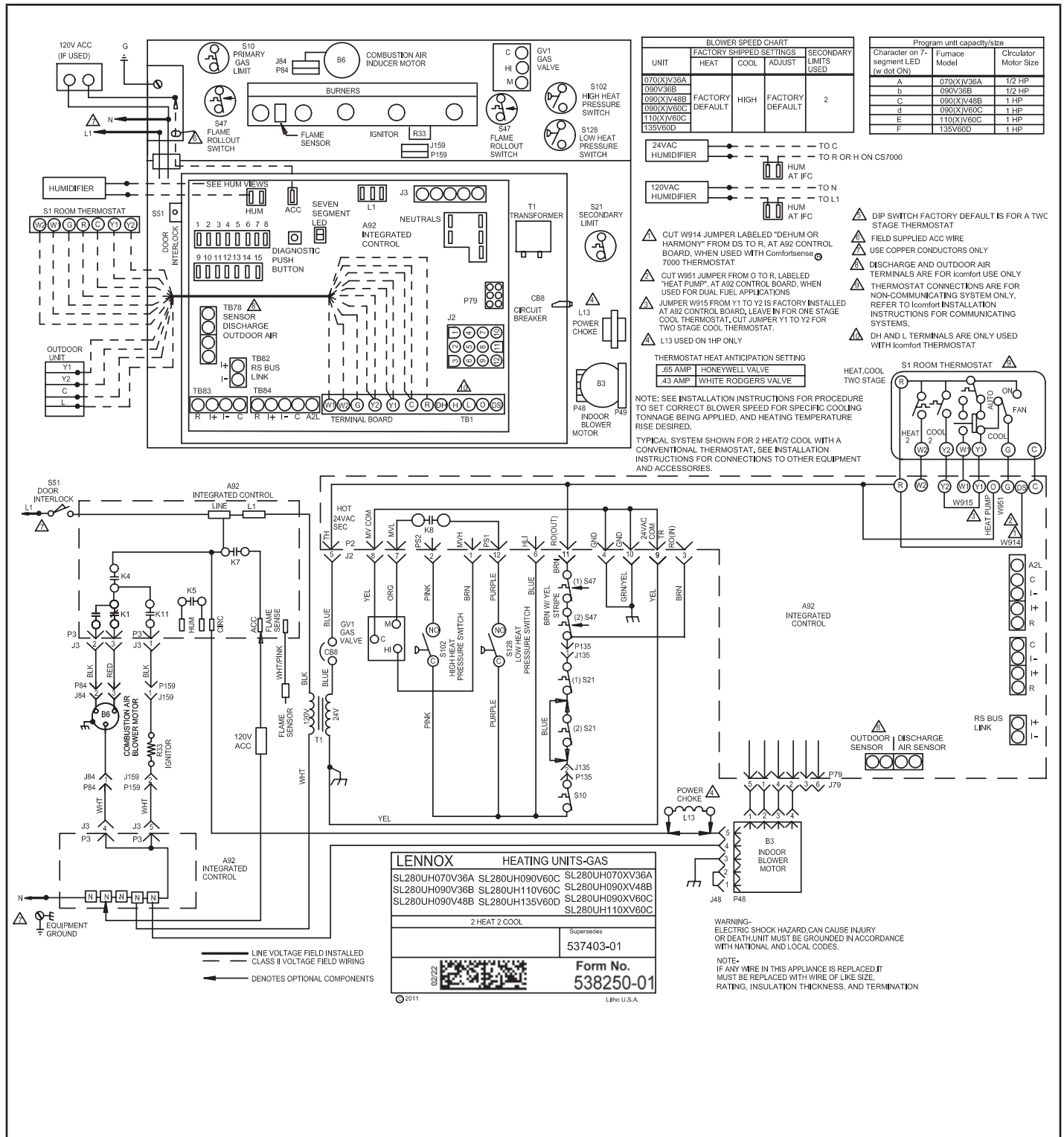


FIGURE 3

SL280UHV Schematic Wiring Diagram



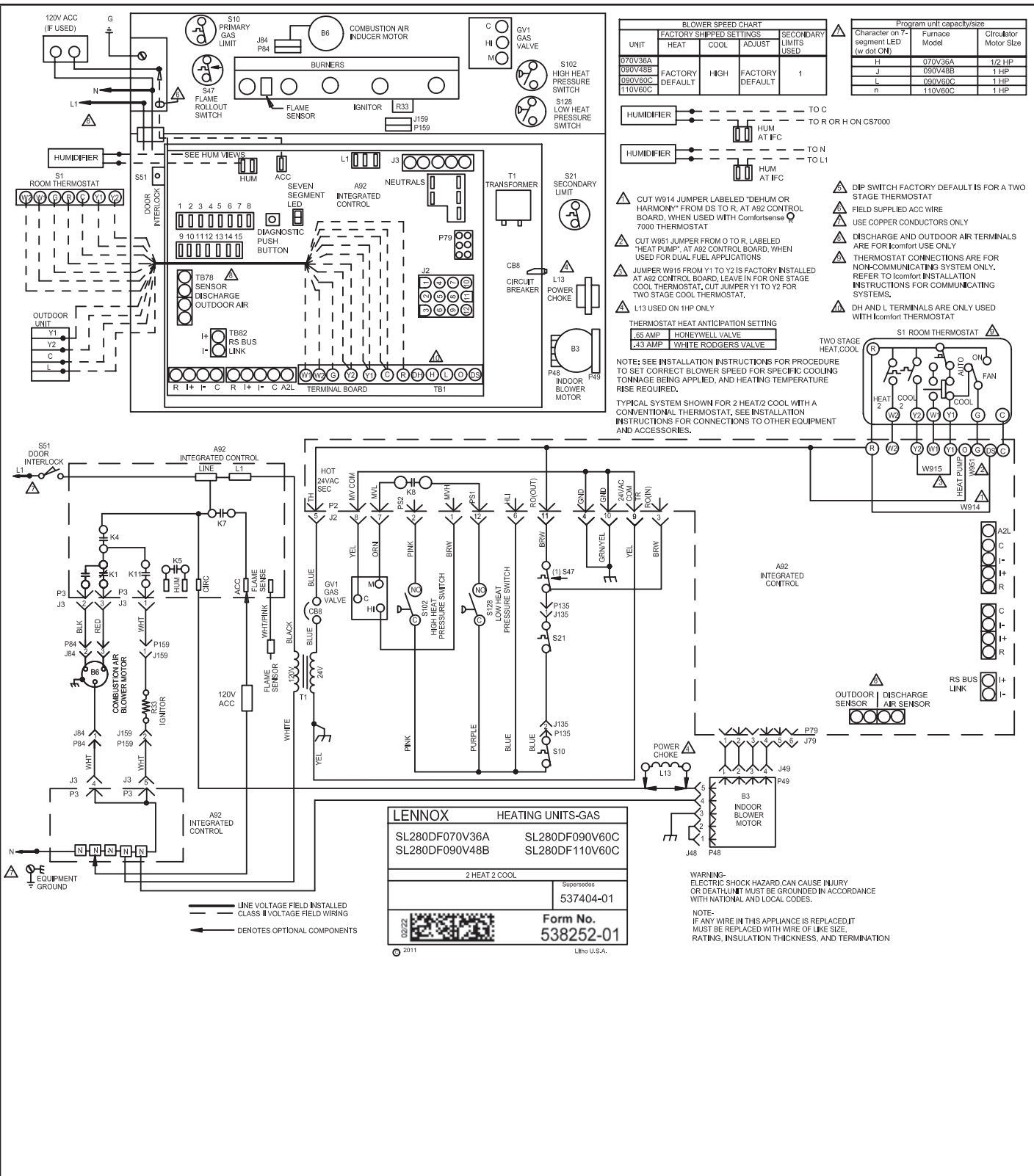


FIGURE 5

EL296DFV Schematic Diagram

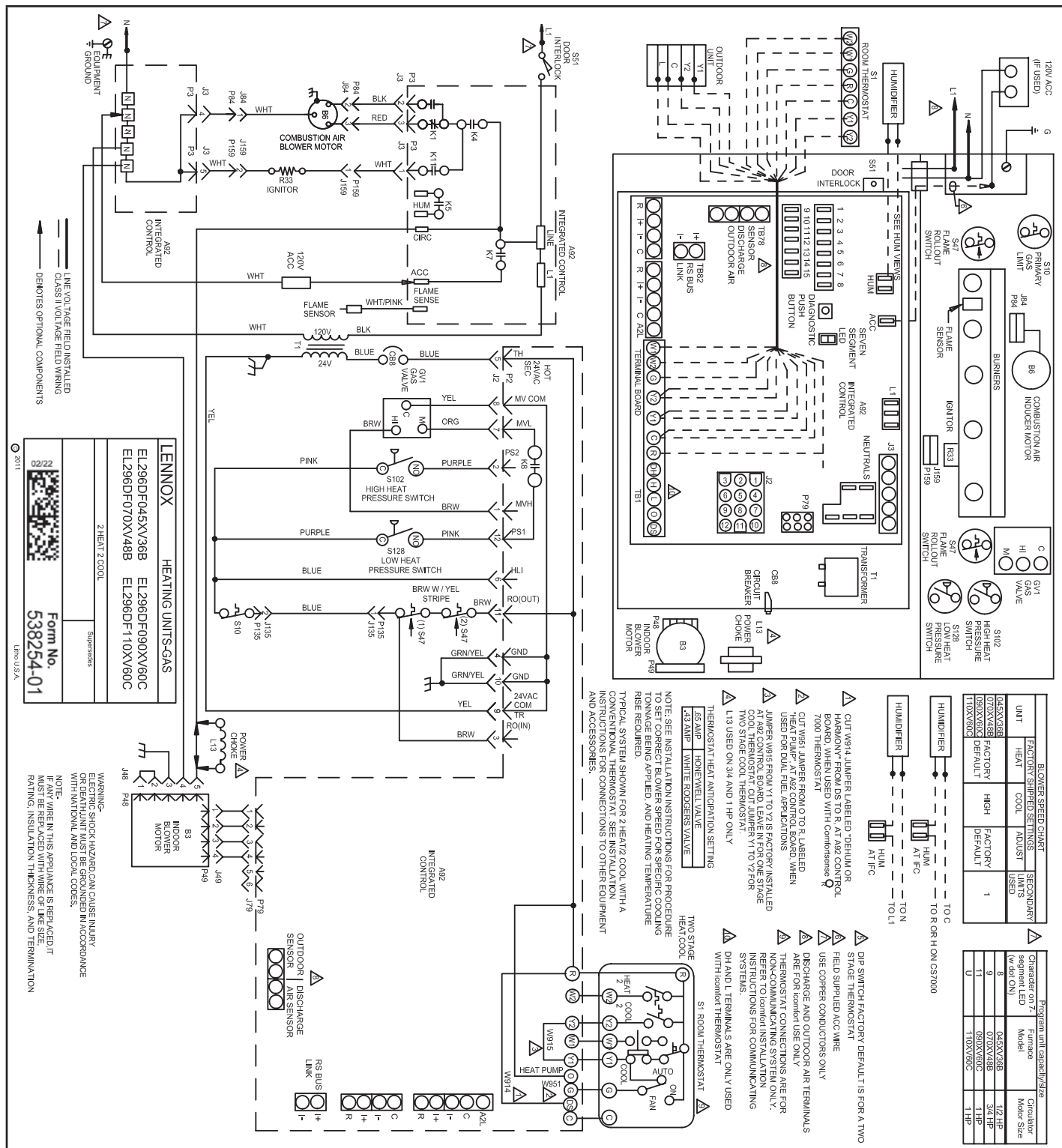


FIGURE 6

EL296UHV Schematic Wiring Diagram

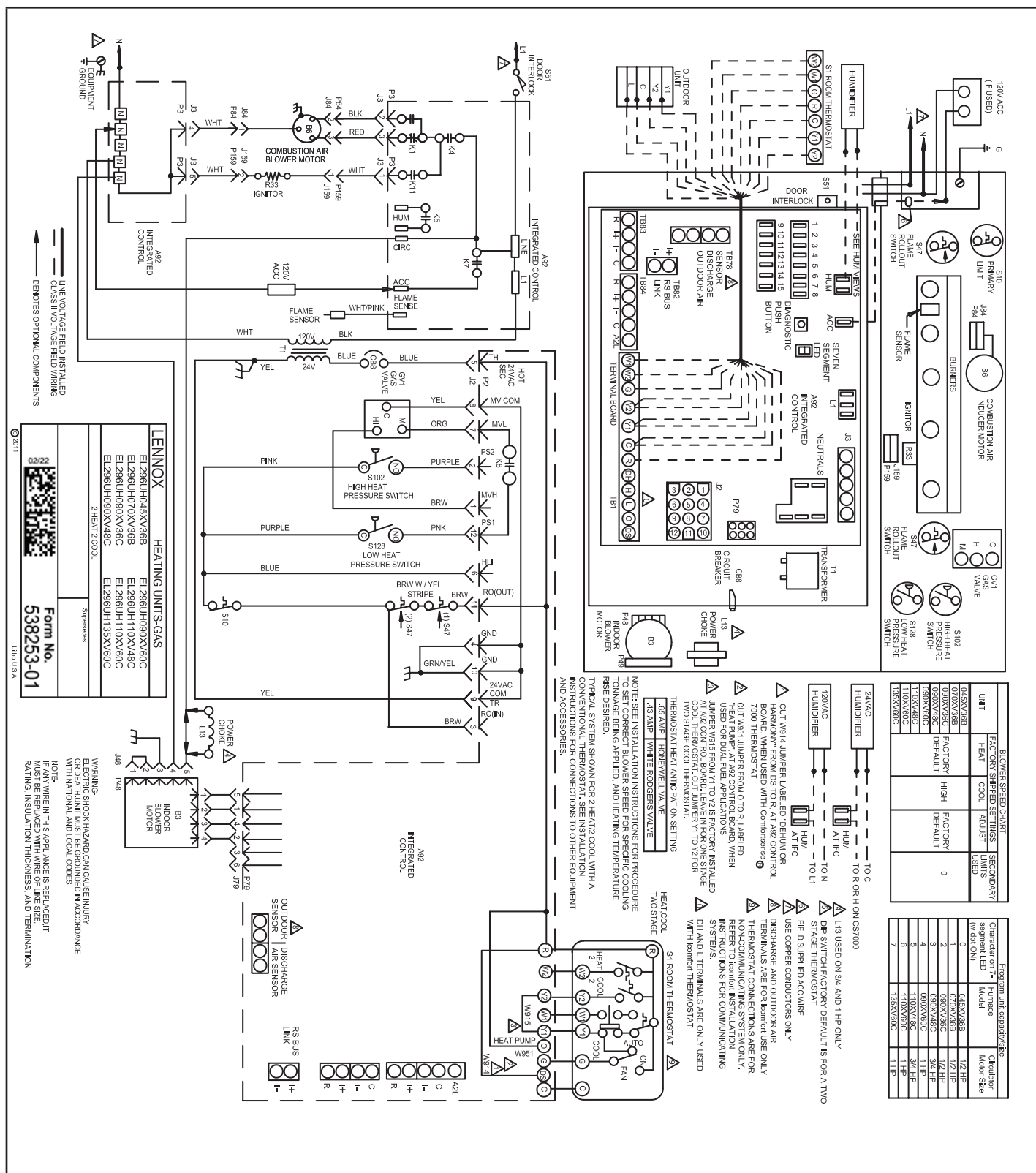


FIGURE 7

EL296UHV With Blower Drive Schematic Wiring Diagram

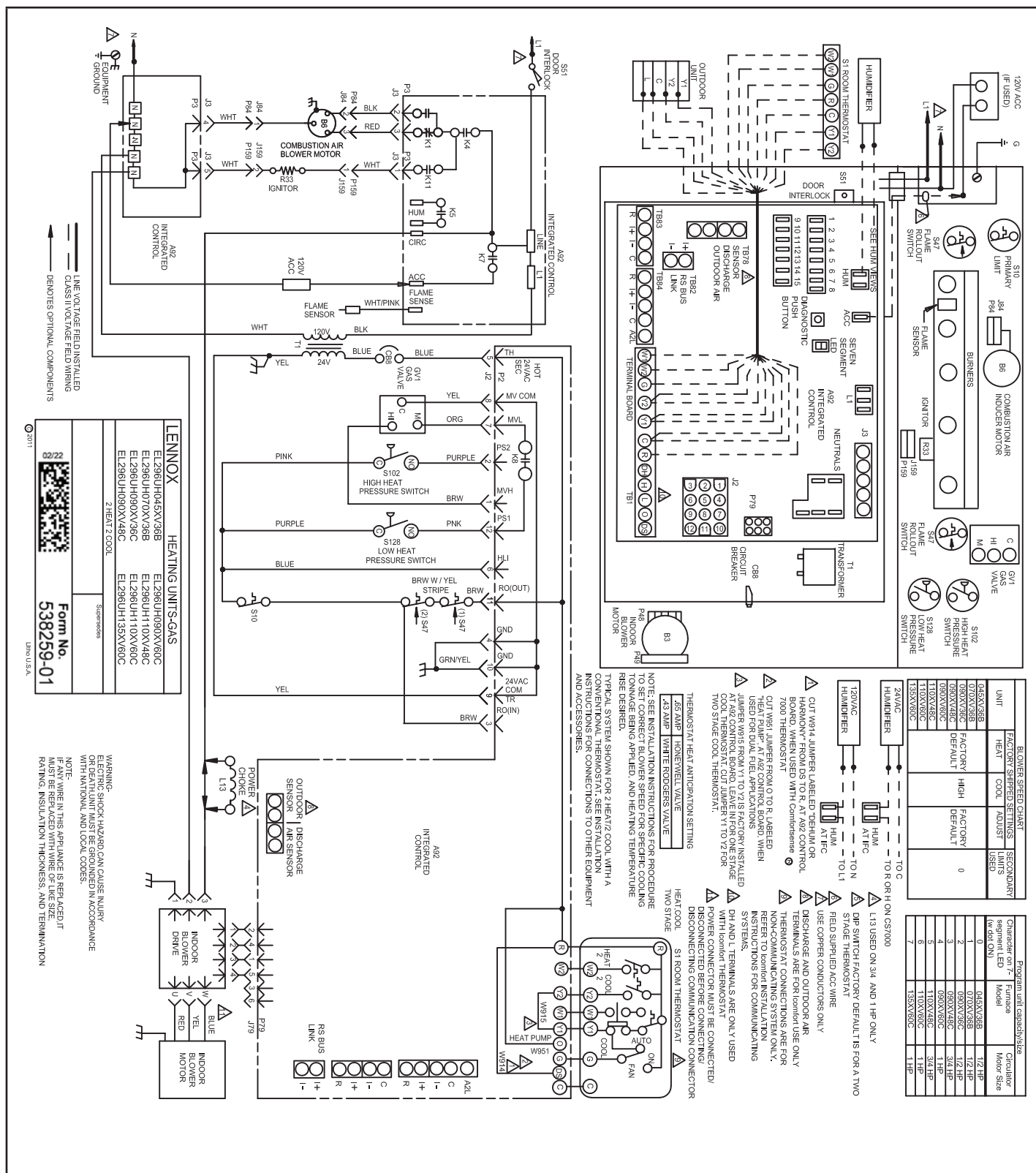


FIGURE 8