



1. See Air Handler Unit Installation Instructions for the Lennox L40 Thermostat wiring.
2. Optional normally closed (NC) Condensate Float Switch
3. Thermostat / Outdoor Unit Terminal Block (**BLACK**)
4. Indoor Unit Terminal Block (**BLUE**)
5. When wired with heat pump applications, a Defrost Tempering Kit (67M41) must be installed.
6. A/C2 terminal is set at the factory for denumidifier.
7. Cut on-board clipable link from R to O for heat pump applications only.
8. Install field-provided jumper between Y2 O/U T BL on heat pump to Y2 on indoor unit.
9. Defrost Temper Kit (67M41).
10. Condensate Overflow Switch

Diagram illustrating the wiring for a Lennox Typical Non-Low GWP Single Stage Air Conditioning Unit connected to a Typical Single Stage Furnace and a L40 Smart Thermostat.

Lennox Typical Non-Low GWP Single Stage Air Conditioning Unit Terminals:

- Black
- Yellow
- M1

Typical Single Stage Furnace Terminals:

- W
- C
- R
- G
- Y

L40 Smart Thermostat Terminals:

- W
- C
- R
- G
- Y
- C/O/B

Wiring Connections:

- Black (AC Unit) to C (Furnace)
- Yellow (AC Unit) to Y (Furnace)
- M1 (AC Unit) to Y (Furnace)
- W (Furnace) to W (Thermostat)
- C (Furnace) to C (Thermostat)
- R (Furnace) to R (Thermostat)
- G (Furnace) to G (Thermostat)
- Y (Furnace) to Y (Thermostat)

L40 Smart Thermostat

W1 G R C

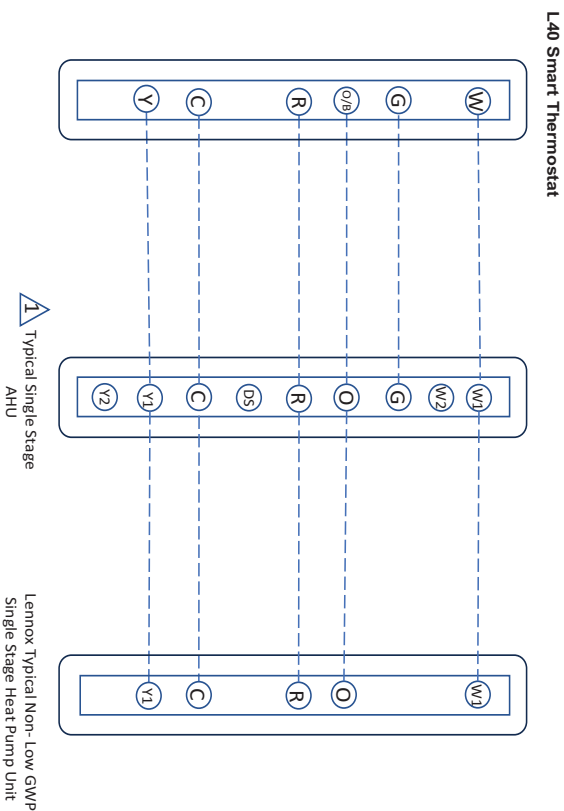
W1 W2 G O R OS C Y1 Y2

Black Single Stage Air Conditioning Unit

Yellow Single Stage Air Conditioning Unit

Lemnox Typical Non-Low GWP Single Stage Air Conditioning Unit

Single Stage Air Handler and Single Stage Heat Pump



L40 Smart Thermostat

Typical Single Stage Furnace

Typical 2-Stage Furnace

Typical Non-2-Stage GWP Single Stage Heat Pump Unit

L40 Smart Thermostat

OPTIONAL 2 N.C. CONDENSATE FLOAT SWITCH

RDS Sensor

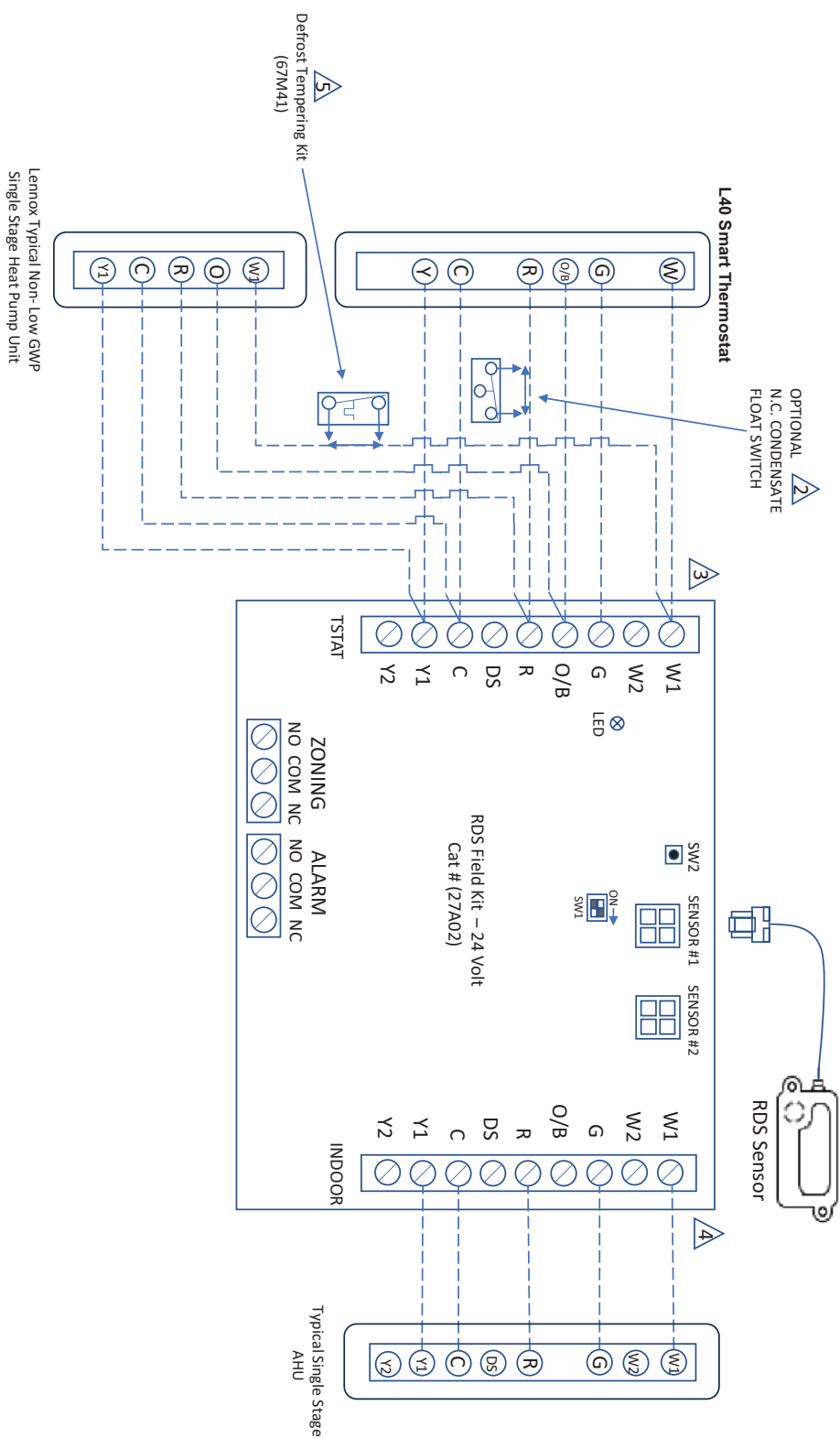
Typical Single Stage Furnace

Lennox Typical Non-Low GWP Air Conditioning Unit

Wiring Diagram Details:

- Thermostat Terminals:** W1, W2, G, O/B, R, DS, C, Y1, Y2, TSTAT.
- Furnace Terminals:** W, G, R, C, Y.
- Air Conditioning Unit Terminals:** Black (C), Yellow (Y1).
- Connections:**
 - W1 to W
 - W2 to G
 - G to G
 - O/B to R
 - R to R
 - DS to C
 - C to C
 - Y1 to Y1
 - Y2 to Y1
 - TSTAT to Black (C)
 - Black (C) to Yellow (Y1)
- Additional Components:**
 - LED indicator (blue circle with X)
 - SW2 (switch)
 - SENSOR #1 and SENSOR #2 (switches)
 - ON/OFF switch (SW1)
 - ZONING ALARM terminals (NO COM NC NO COM NC)

Single Stage Air Handler or Single Stage Heat Pump with Refrigerant Detection System (RDS)



Single Stage Furnace or Single Stage Heat Pump (Dual Fuel) with Refrigerant Detection System (RDS)

