Lennox® S30 Installer Quick Start Guide
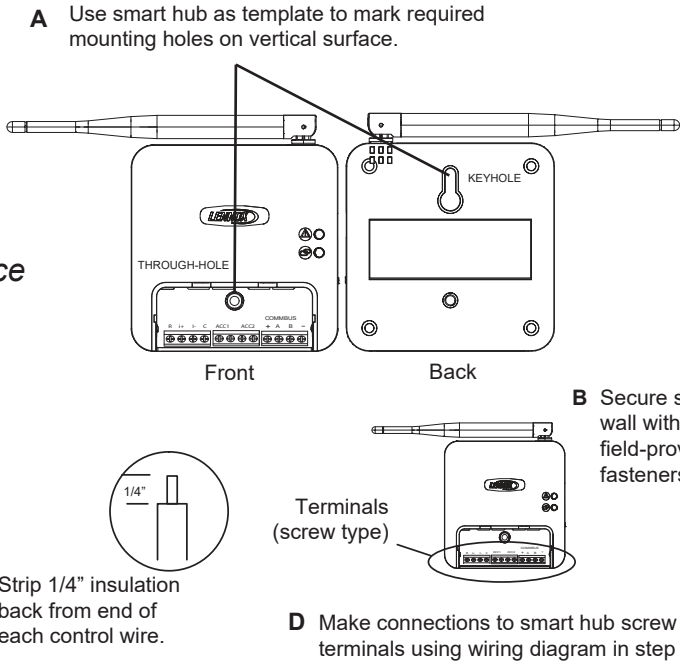
508294-01 July 2022

Step 1 — Mounting the Smart Hub

Mount the smart hub to a vertical surface such as a wall stud or roof truss web, or to a horizontal surface such as a floor or ceiling joist, or a roof rafter.

NOTE: *To ensure reliable connectivity, do not mount to a metal surface, air handler, furnace or ductwork.*

A Use smart hub as template to mark required mounting holes on vertical surface.

KEYHOLE

THROUGH-HOLE

Front   Back

B Secure smart hub to wall with field-provided fasteners.

1/4"

Terminals (screw type)

C Strip 1/4" insulation back from end of each control wire.

D Make connections to smart hub screw terminals using wiring diagram in step 3.

WARNING

Do not overtighten lower mounting screw, doing so may damage smart hub.

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a licensed professional HVAC installer (or equivalent) or a service agency.
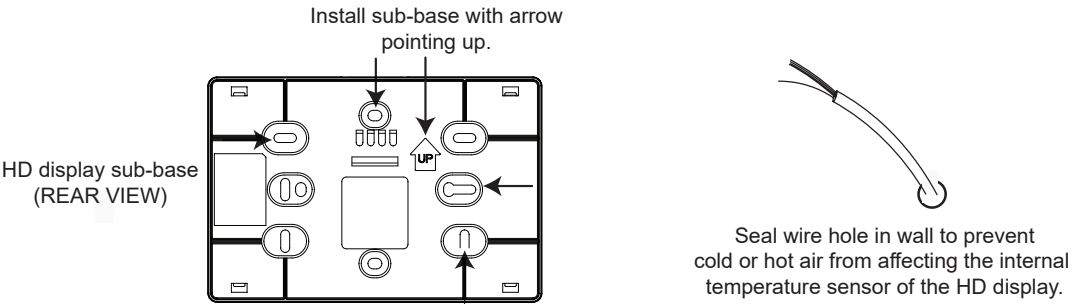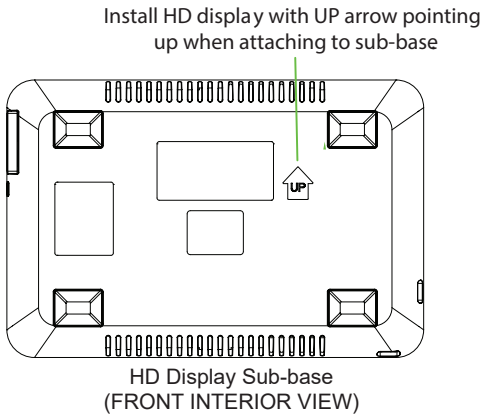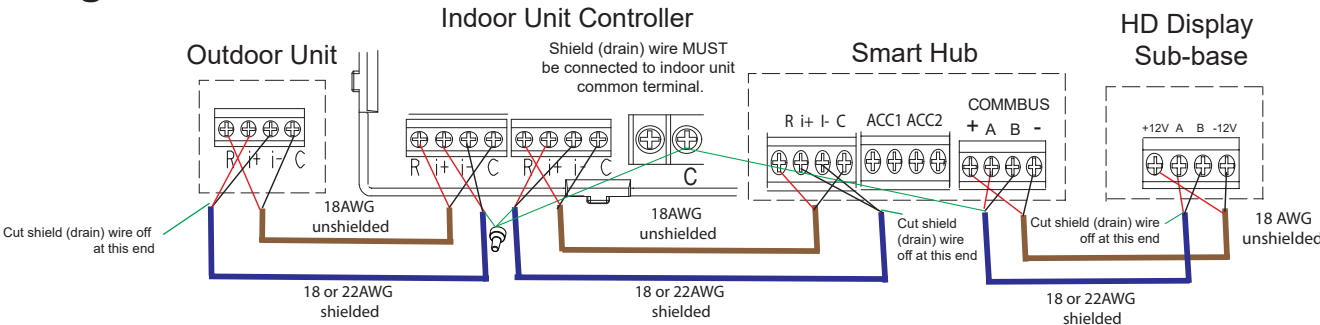
Step 2 — Running Wire and Mounting Sub-base

A. Use sub-base as a template to mark the desired mounting hole locations on the wall.
B. Pull about three inches (75mm) of thermostat wire through the opening and remove the outer thermostat wire jacket.

Install sub-base with arrow pointing up.

HD display sub-base (REAR VIEW)

Seal wire hole in wall to prevent cold or hot air from affecting the internal temperature sensor of the HD display.

Step 3 — Making Wiring Connections and Attaching Thermostat

NOTE: For detailed wiring on different equipment configurations, please reference the S30 Installation and Setup Guide. Shielded wiring is highly recommended for all communication connections.

Outdoor Unit

R i+ i- C

Cut shield (drain) wire off at this end

18 or 22AWG shielded

Indoor Unit Controller

R i+ C   R i+ i- C   C

Shield (drain) wire MUST be connected to indoor unit common terminal.

18AWG unshielded

18AWG unshielded

18 or 22AWG shielded

Smart Hub

R i+ I- C   ACC1 ACC2   COMMBUS + A B -

Cut shield (drain) wire off at this end

Cut shield (drain) wire off at this end

HD Display Sub-base

+12V A B -12V

18 or 22AWG shielded

18 AWG unshielded

Install HD display with UP arrow pointing up when attaching to sub-base

HD Display Sub-base (FRONT INTERIOR VIEW)

Shielded wire needs to be connected to a common (C) terminal.

IMPORTANT

Use 1-pair, 18AWG unshielded thermostat cable (field-provided) for power terminals (R, C, 12+ and 12-). We highly recommend using 18 - 22AWG shielded thermostat cable for communications terminals (I+, I-, A and B) which will help eliminate any noise interference.
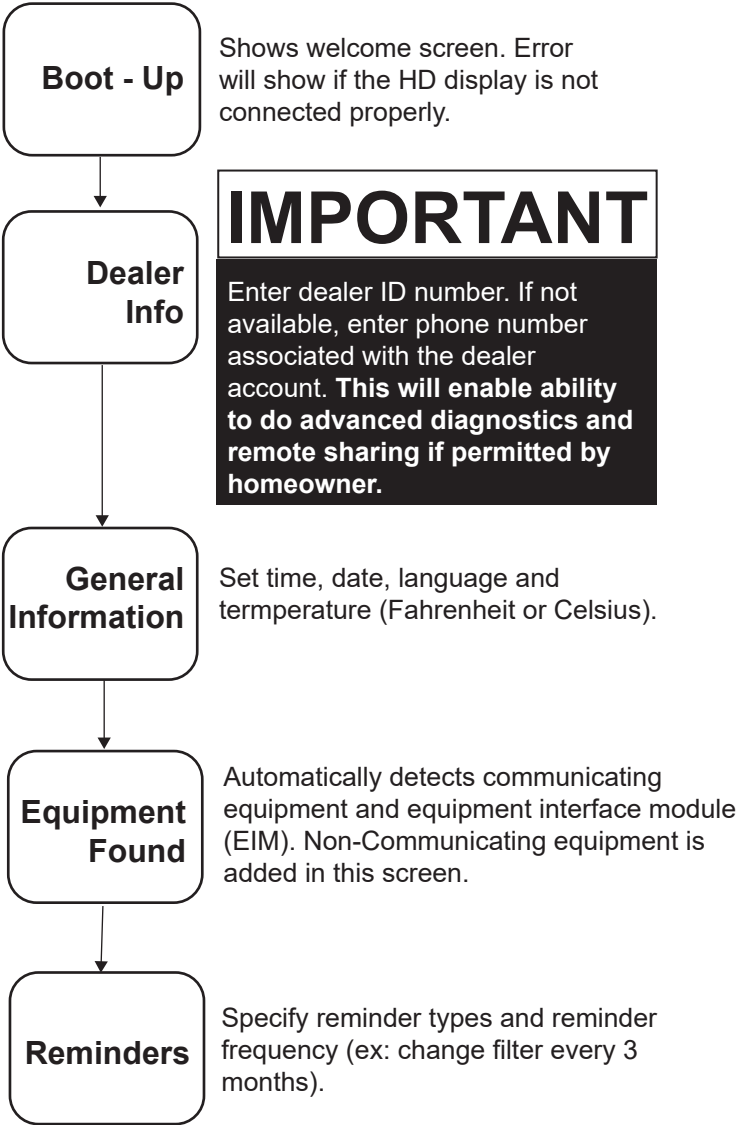
IMPORTANT

Be careful not to bend the four connection pins protruding from the back side of the HD display. **DO NOT** lay display down on side with pins. Damaged pins could cause power and communication issues between the HD display and smart hub.
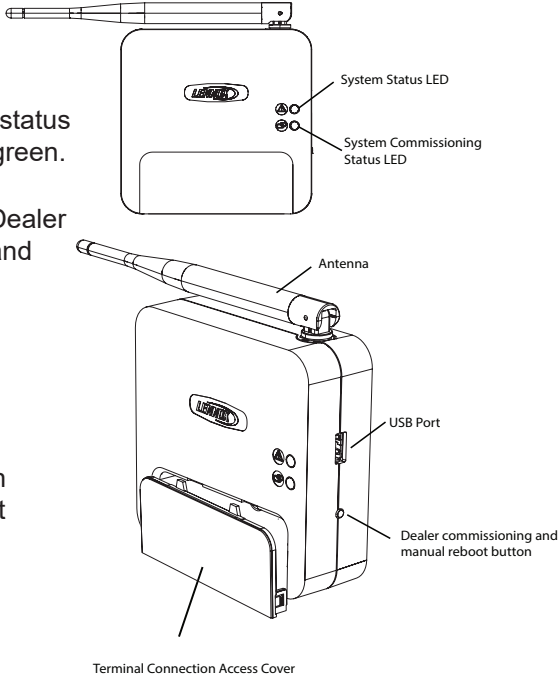
Commissioning the S30 Thermostat

Using the Thermostat

Boot - Up
Shows welcome screen. Error will show if the HD display is not connected properly.

Dealer Info

IMPORTANT

Enter dealer ID number. If not available, enter phone number associated with the dealer account. **This will enable ability to do advanced diagnostics and remote sharing if permitted by homeowner.**

General Information
Set time, date, language and termperature (Fahrenheit or Celsius).

Equipment Found
Automatically detects communicating equipment and equipment interface module (EIM). Non-Communicating equipment is added in this screen.

Reminders
Specify reminder types and reminder frequency (ex: change filter every 3 months).

Using the iComfort Dealer Setup App

1. Download and install the iComfort Dealer Setup App if not already installed.

2. Apply power to the system. Cancel the Apple HomeKit screen for now. Remove the S30 HD display from the subbase. Once commissioning is completed, then the HD display can be reattached to the sub-base.

3. On the smart hub, press the commissioning button located on the side of the unit.

4. The commissioning status LED will start blinking green and the smart hub will broadcast its Wi-Fi identifier (SSID) for 2 minutes.

5. Go to your mobile device's Wi-Fi connection tool and locate the smart hub Wi-Fi broadcast identifier. Example identifier (SSID) is DIRECT-XY12-3456.

6. Connect to the smart hub by using the last eight digits of the smart hub SSID as the password. In this example, it would be XY123456).

7. Once the mobile device is connected to the smart hub, the commissioning status LED will turn solid green.

8. Start the iComfort Dealer Mobile Setup App and validate the serial number of the hub matches what is in the mobile app to ensure connection.

9. Touch the remote-in tab on the iComfort Dealer Setup application home screen to begin commissioning.

System Status LED

System Commissioning Status LED

Antenna

USB Port

Dealer commissioning and manual reboot button

Terminal Connection Access Cover

## Scan QR Code for S30 Installation and Setup Guide

Helping Homeowner Connect to Wi-Fi

1. From the thermostat's home screen, go to **Menu** > **Settings** > **Wi-Fi** .
2. Slide the option to **ON** to enable Wi-Fi.
3. Wi-Fi network will show not connected. Press on **not connected** to display a list of available access points.
4. A list of networks that have been found within range will be displayed. Select your home network by pressing on the **network name**.
5. Enter your home Wi-Fi network password and press **join** to continue. If successful the Thermostat Connective Status indicator illustrated below will show checkmarks across all connections.

NOTE: *Whether connecting to a visible or hidden network, if successful, a check mark will appear above both the router and Internet icons. For information on connecting to hidden networks, please reference the S30 Homeowner Guide page.*

75°
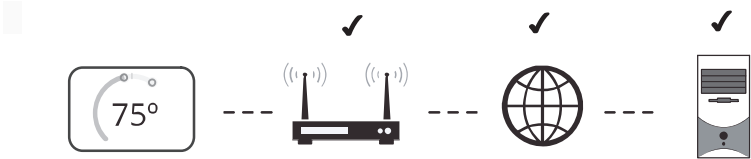
IMPORTANT
ADVANCED DIAGNOSTICS & REMOTE SHARING

Protect homeowner investment and peace of mind with active monitoring of system operations through the Lennox S30 Smart Thermostat. This feature is free of charge and provides basic maintenance reminders, alerts homeowner of potential issues, and can even allow the homeowner to remotely share diagnostics with the Lennox dealer to troubleshoot and fix problems. This proactive care helps eliminate downtime and avoid unnecessary service visits and repair costs, ensuring nothing short of perfect air.

Please share this information with homeowner as you ask them to accept the Advanced Diagnostics & Remote sharing permissions.