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Dallas, Texas, USA



INSTALLATION/ OPERATION INSTRUCTIONS

V0STAT54 Indoor Unit Non-programmable Controller

CONTROLS
507463-01
09/2014

THIS MANUAL MUST BE LEFT WITH
THE OWNER FOR FUTURE REFERENCE

⚠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 service agency.

IMPORTANT!

Frequent changes to operating mode may cause system malfunction. Allow at least one minute between mode changes to allow the system to stabilize.

Shipping and Packing List

Package 1 of 1 contains;

- 1 – Wired Controller
- 1 – Installation and operation manual
- 2 – Phillips screws
- 2 – Plastic spacers
- 1 – Cable with connector (33 ft. 10 m)

General

The V0STAT54 is a wired non-programmable local controller for indoor units. These instructions are intended as a general guide and do not supersede local codes in any way. Consult authorities having jurisdiction before installation.

Requirements

Be sure that power supply has been turned off before beginning installation. This controller should be used only as described in this manual. Do not install the controller on outside walls (where there is unconditioned space on opposite side of wall) or in locations where direct sunlight may be present.

Installation

⚠CAUTION

Clean controller using a clean, damp cloth. Do not spray cleanser on or around controller.

⚠CAUTION

Do not install controller in areas where heavy oil, vapor, or gases containing sulfur may exist or the controller may be damaged.

⚠CAUTION

Do not operate controller with wet hands.

IMPORTANT!

Read all of the information in this manual before using this controller. All wiring must conform to local and national building and electrical codes and ordinances. **This is a 5 VDC controller. Do not install on voltages higher than 5 VDC.**

IMPORTANT!

The provided cables must be used. Do not use excessive force while pulling the cable or when making the connections.

- This manual provides the installation instructions for this controller. Refer to the included wiring diagram to connect the controller to the indoor unit.
- The controller is low voltage. Keep a minimum distance of 12" (305mm) between low voltage control wire and high voltage power wires.
- Ground the shielded control wiring.
- Do not attempt to extend the shielded cable by splicing. Use Terminal Connection Block to make connections.
- Do not use a megger to test insulation.
- The controller cable length should not exceed 66 ft.

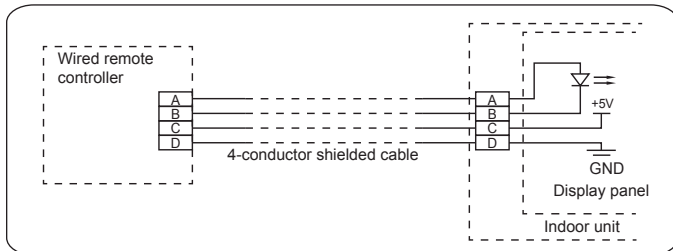


Figure 1. General wiring Diagram

1. At the controller, insert the plug of the 4-conductor cable into the socket of the controller.

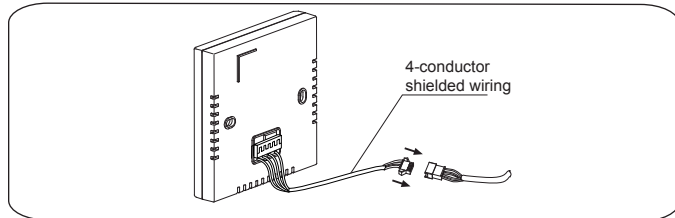


Figure 2. Connection at controller

2. Remove the cover from the wallplate using a flat head screw driver as shown.

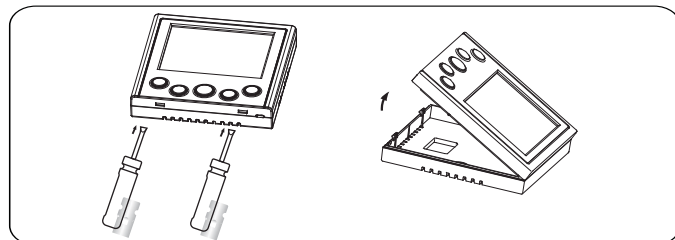


Figure 3. Remove cover from wallplate

3. Adjust the length of the two plastic spacers as needed to allow the controller to be mounted flush with the wall. **NOTE** – Be sure to provide for future maintenance by allowing enough slack in the wiring to allow the controller to be removed from the wall if needed.
4. Attach the wallplate using the provided screws.
5. Reattach the cover to the wallplate.

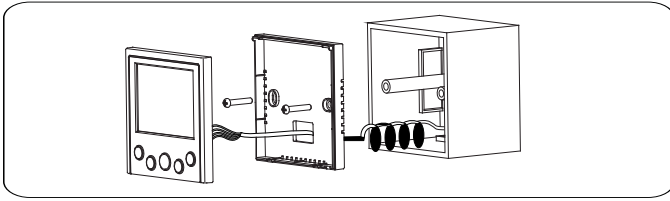


Figure 4. Installation

6. At the indoor unit, insert the plug of the 4-conductor cable into the socket of the indoor unit display panel.

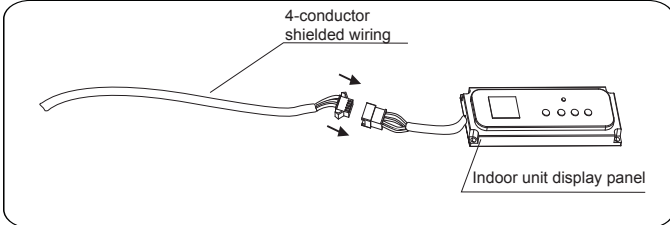


Figure 5. Connection at indoor unit

Field Wiring Diagrams

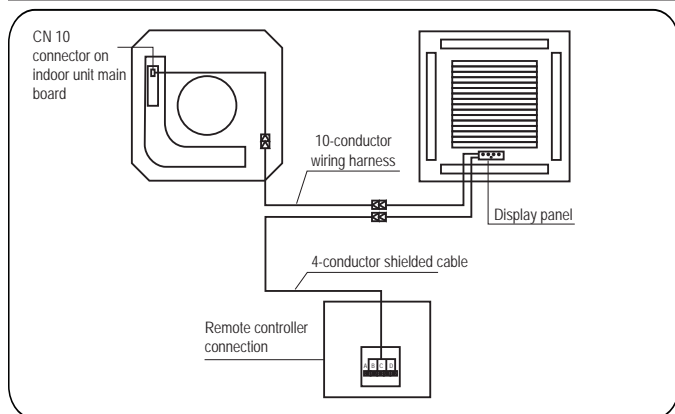


Figure 6. Controller wired to four-way cassette indoor unit (V22 & V33)

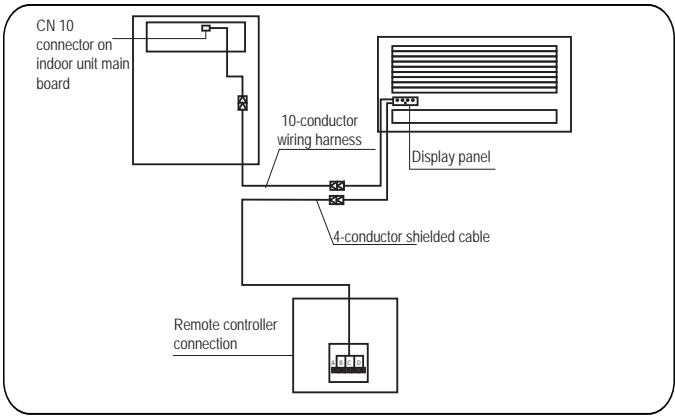


Figure 7. Controller wired to medium-static ducted indoor unit (VMDA)

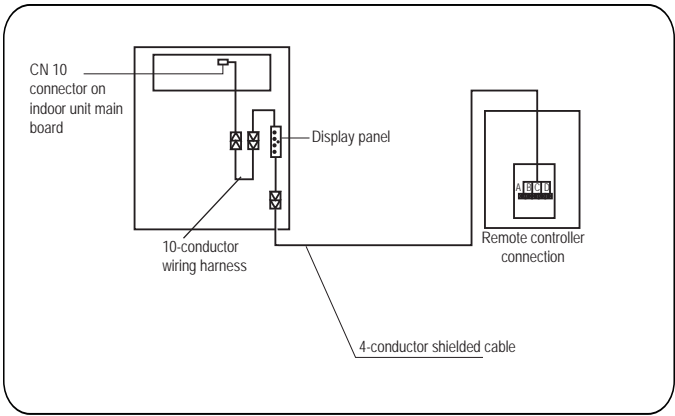


Figure 8. Controller wired to high-static ducted indoor unit (VHIA)

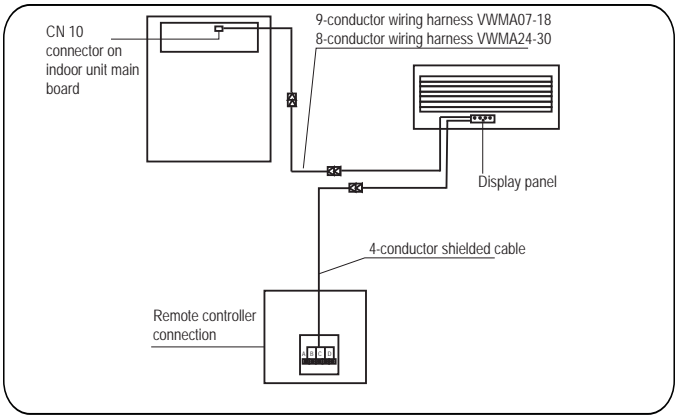


Figure 9. Controller wired to wall-mounted indoor unit (VWMA)

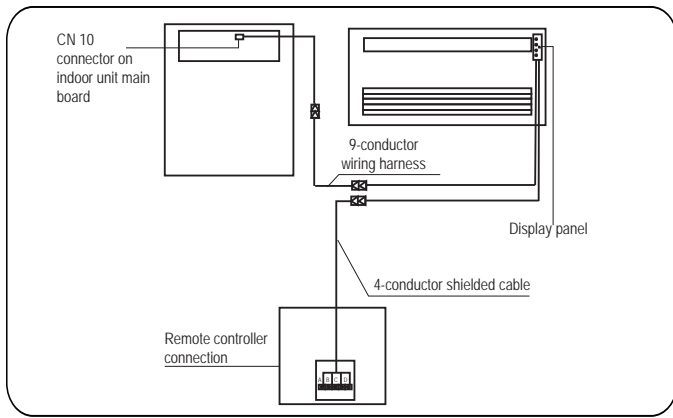


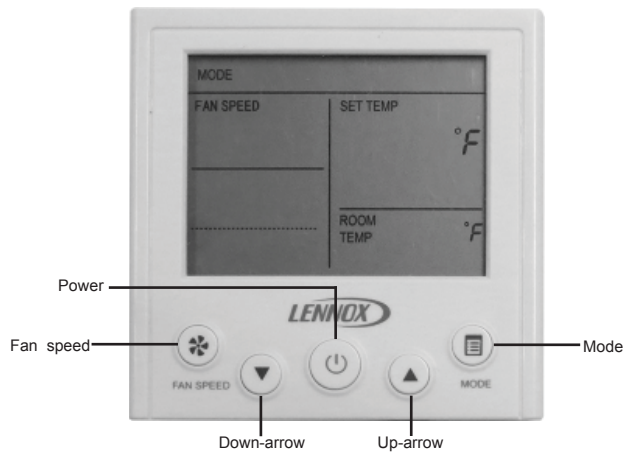
Figure 10. Controller wired to ceiling/floor indoor unit (VCFA)

Specifications

Table 1. Specifications

Input voltage	5 VDC
Ambient temperature	23~110°F (-5~43°C)
Ambient humidity	RH40%~RH90%

Description of Buttons



- **Power button.** Press to turn the indoor unit on or off.
- **Fan speed button.** Press the Fan speed button to scroll through the fan speeds: Auto → Low → Med →High
- **Down-arrow button.** Press to decrease the setpoint.
- **Mode button.** Press to scroll through the modes: Cool → Heat →Fan.
- **Up-arrow button.** Press to increase the setpoint.

Operation

Start/stop operation

Press the power button.

- Controller ON: LED display lit.
- Controller OFF: LED display not lit.

To set (or change) the room temperature setting (setpoint)

Press the up-arrow & down-arrow buttons to adjust the setpoint.

To set the operation mode

Press the Mode button to scroll through the mode selections.

- Cool – System operates in cooling mode.
- Heat – System operates in heating mode.
- Fan – Fan only, no heating or cooling.