



# FO-FDHCZ2

## Zone Definition Kit

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The zone heat kits will allow the distribution of heat to a maximum of 4 different rooms/zones via dedicated ducts. Each zone is controlled by a thermostat that opens or closes a motorized damper and allows the flow of heated air into the rooms. In order to use this option, a "Zone Control System" (FDHCZ1) is required in conjunction with a "Zone Definition Kits" (FDHCZ2). This system requires a "Central Heat Blower Kit" (FDHB6-1) to move the heated air through the duct (see Figure 2).

The FDHCZ1 is the zone control system kit. Only one kit is required to control 2 to 4 zones.

The FDHCZ2 is the zone definition kit. One kit is required per zone.

All wiring must be in accordance with local ordinances and the National Electric Code.

For duct installation, please refer to the installation sheet of the "Central Heat Blower Kit" (FDHB6-1). All duct work must be in accordance with local ordinances and the National Building Code.

◆ **NOTE:** If the intent is to use existing duct work from a central heat system, the zone kits are not required.

### **INSTALLATION OF FDHCZ2 (see Figure 1)**

Make sure that the thermostats are matched with the correct zone damper on the zone controller (TS1-ZV1, TS2-ZV2, etc.).

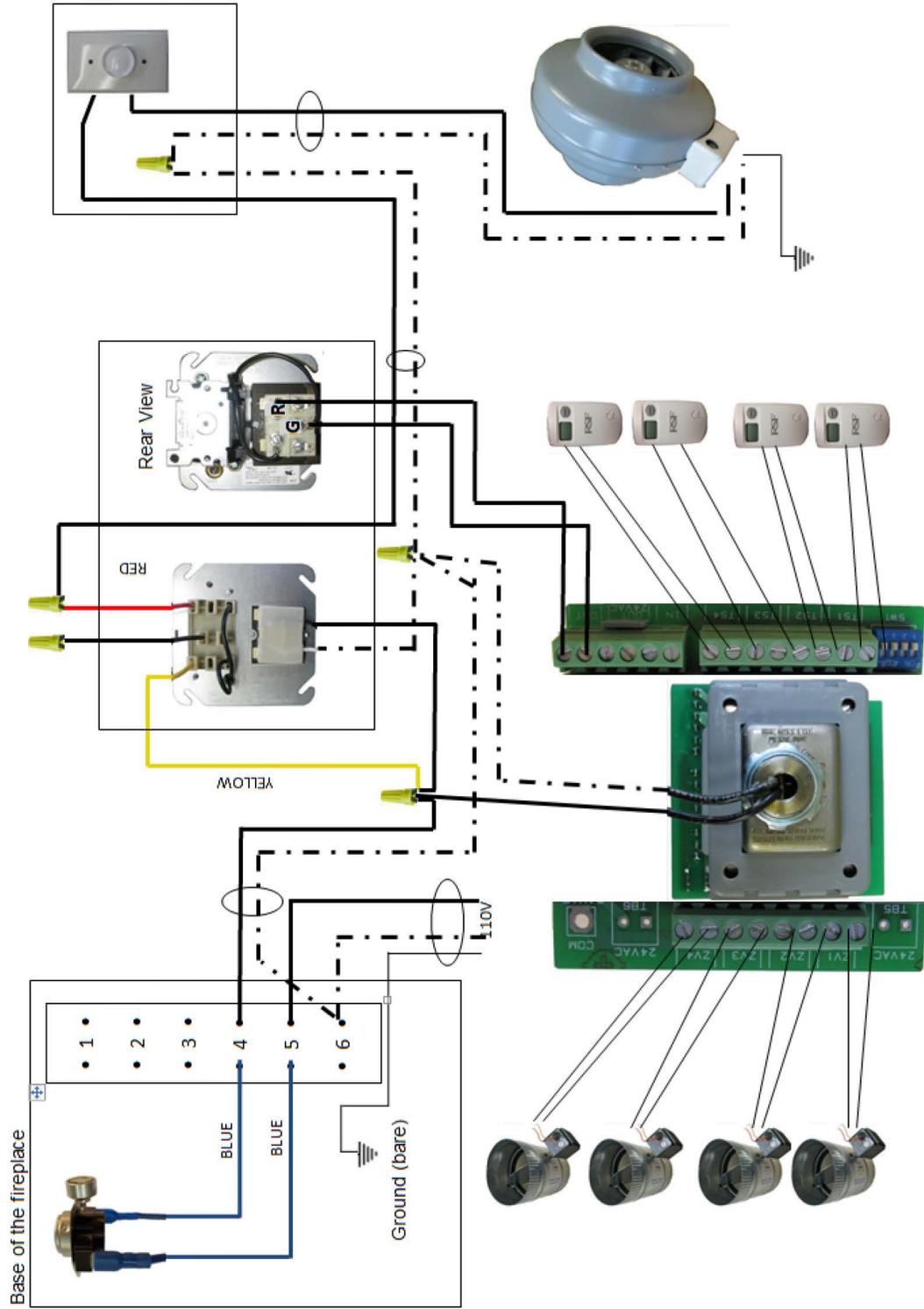
1. Install the zone damper in a convenient location on the duct to control the heat flow for a given zone. The crimped extremity defines the outflow of the damper.
2. With 2 wires (16 gauge), wire the zone damper to a given ZV terminal on the zone controller.
3. Install the zone thermostat in an appropriate location to control the temperature of the given zone.
4. With 2 wires (16 gauge), wire the zone thermostat to a given TS terminal on the zone controller.

### **ZONE DAMPER**

The zone damper provided is in Normally Open configuration. If you need it to be in Normally Closed configuration then do the following:

- Loosen the big set screw that holds the motor in place on the damper axis.
- Remove the motor.
- Remove the holed grommet that was allowing to motor support through the damper body.
- Remove the blocking grommet on the other side of the damper.
- Install the holed grommet where the blocking grommet was.
- Install the blocking grommet where the holed grommet was.
- Insert the motor on the damper axis and through the holed grommet.
- Gently closed the damper and tighten the motor set screw on the damper axis.
- Realign the set screw that indicates the position of the damper.

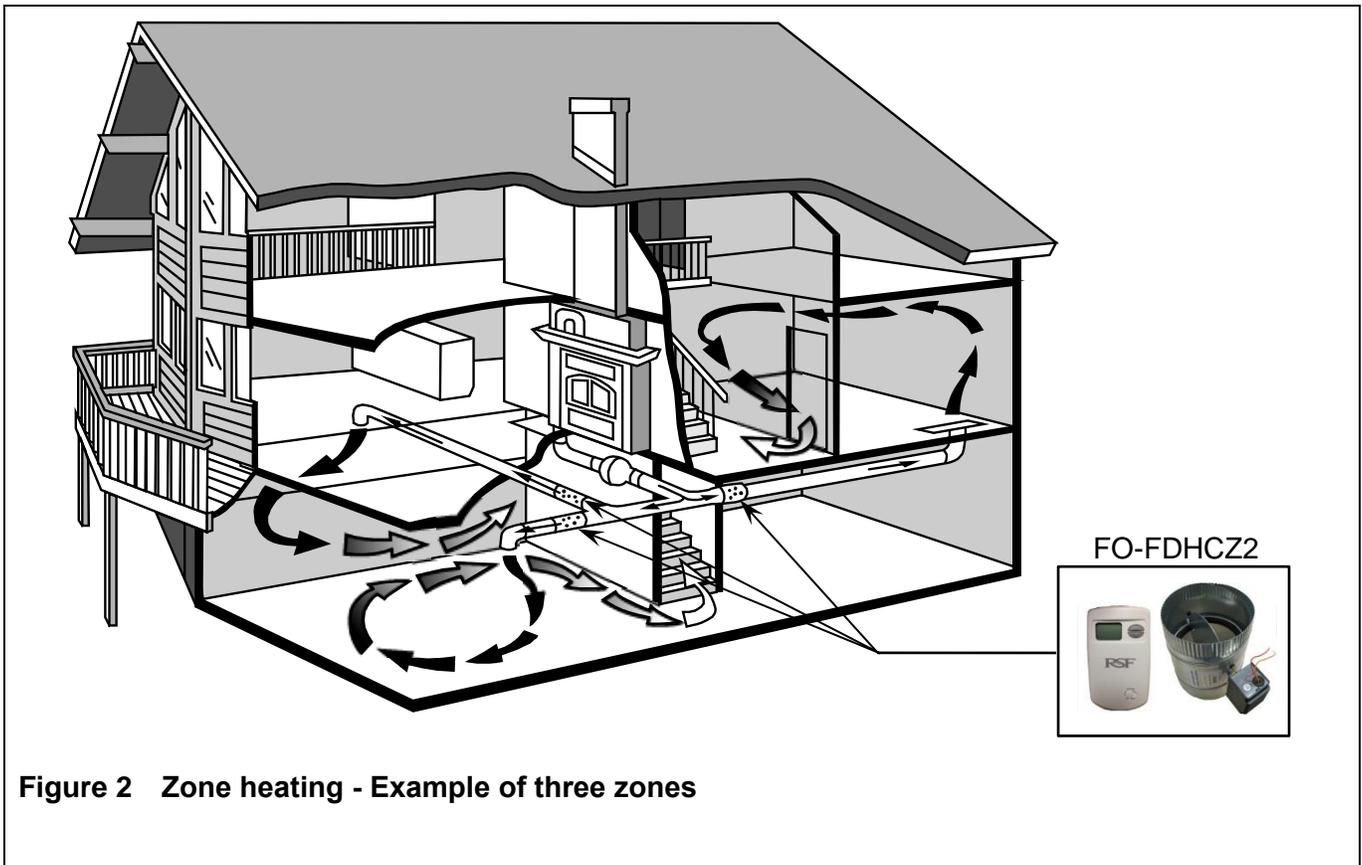
Wiring for the Central Heat System (FO-FDHB6-1) with Zone Heating Control (FO-FDHCZ1 and FO-FDHCZ2)



Not to Scale

Represents a single Wire

Figure 1 Wiring diagram



**Check List:**

- 1 Zone Damper (979007)
- 1 Thermostat (945002)
- 1 Bag containing                      2 Small Wire Nuts                      (942003)
- Instructions and check list

INITIALS