

# KITS COMMON TO HEATING AND COOLING EQUIPMENT

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## REMOTE DISCHARGE SENSOR BAG ASSEMBLY KIT

### INSTALLATION INSTRUCTIONS FOR REMOTE SENSOR BAG ASSEMBLY USED ON LG/LC/LH/LD UNITS

#### Shipping and Packing List

Bag Assembly Contains

- 1- Sensor (RT6)
- 1- 11 Ft extension, 2-wire harness
- 2- Screws, #10 x 5/8 drill screws
- 2- Wire Ties

#### Application

This bag assembly is used to remotely install RT6 temperature sensor in discharge air ductwork. The remote RT6 is commonly used in Fresh Air Tempering (FAT) mode, Discharge Air Control (DAC) mode, and Variable Air Volume blower operation.

### **⚠ 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, service agency, or the gas supplier.

#### Install Sensor

- 1 - Disconnect all power to unit.
- 2 - Select Sensor location. Refer to FIGURE 1 for down-flow applications.
  - a. On downflow applications with ductwork, position the sensor on the first branch off of the main duct.
  - b. On downflow applications with a ceiling diffuser, position the sensor in the ductwork close to the diffuser.
  - c. On horizontal applications, position sensor either after the 1st ductwork bend or 5 Ft (minimum) down duct from unit.
- 4 - Provide a 3/8" - 1/2" diameter hole in ductwork for sensor probe.
- 5 - Insert sensor into duct and secure with provided drill screws.

### **⚠ CAUTION**

As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Take care while handling this equipment and wear gloves and protective clothing.

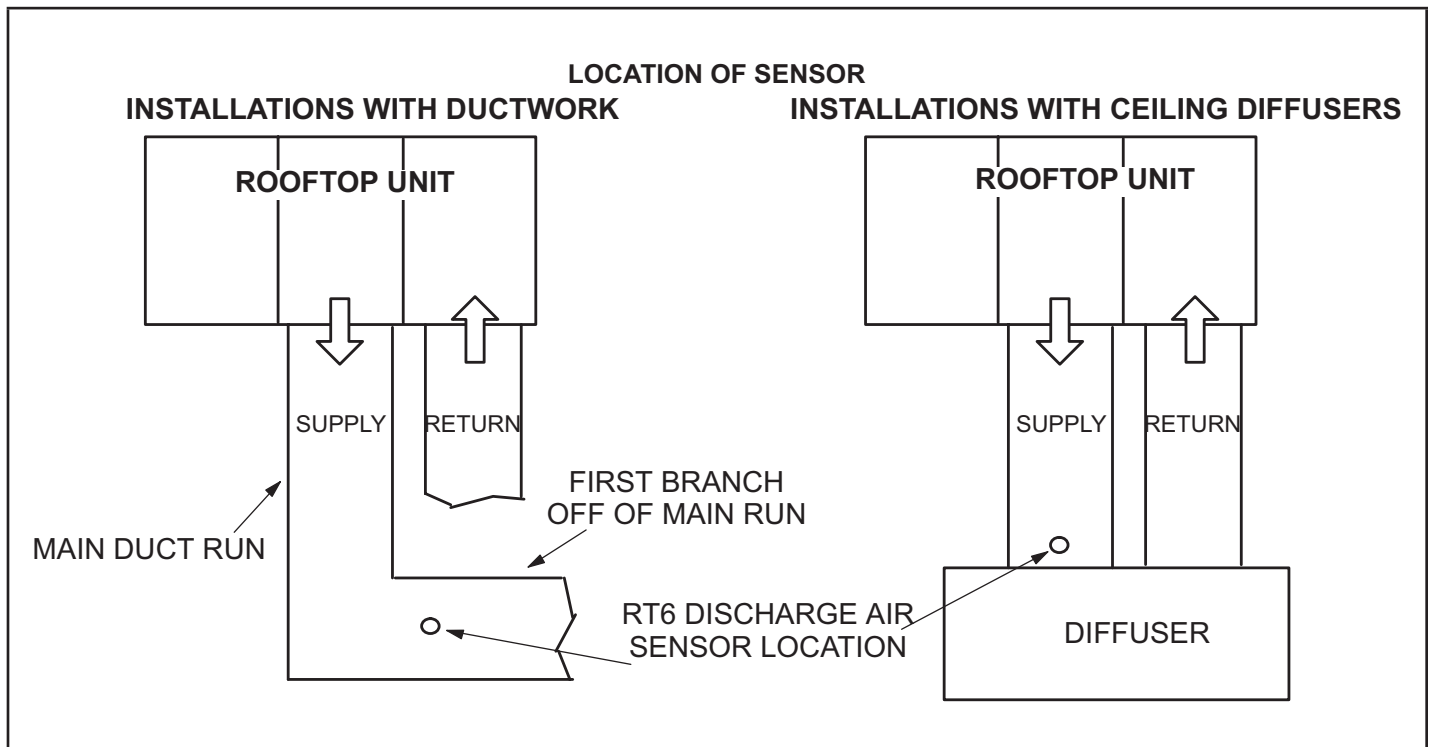


FIGURE 1

## Wiring

- 1 - Open compressor access door. Refer to FIGURE 2.
- 2 - Locate bundled factory installed RT6 harness end (2 red quick connects). Refer to FIGURE 3.
- 3 - Remove wire tie holding bundle and stretch out harness.
- 4 - Connect extension harness to stretched factory RT6 harness.

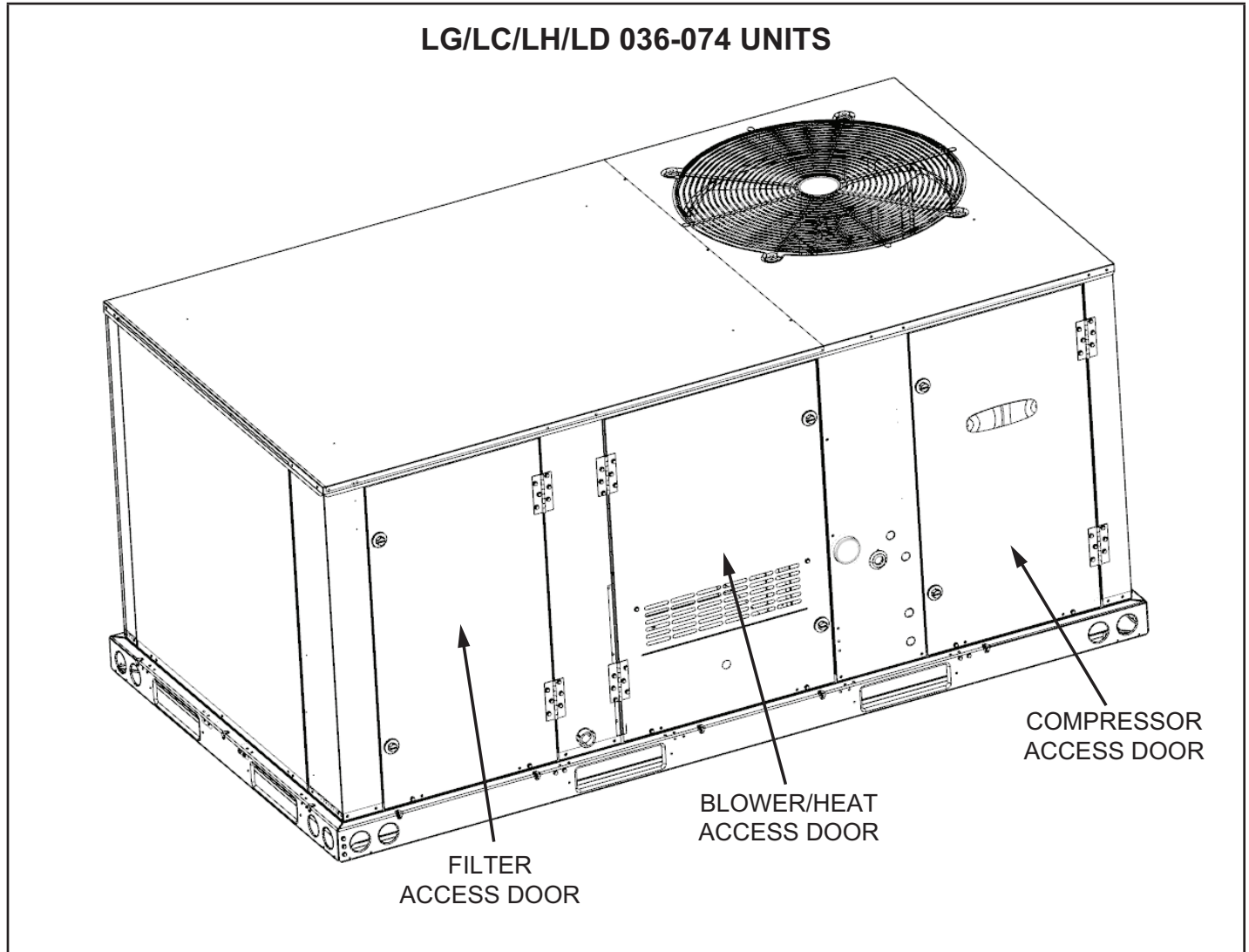
5 - Route harness through bottom power entry to remote sensor location.

6 - Connect harness to remote RT6 sensor. Sensor is not polarized so connect harness to either wire.

**NOTE** - Wire harness provided maybe extended (spliced) with a minimum 18 gauge wire. Total wire run (11 Ft + spliced length) may not exceed 25 feet (7.6m).

## Enable Control Mode

Fresh Air Tempering and Discharge Air Control features must be enabled using the Unit Controller or optional software. Refer to the Unit Controller manual provided with the unit for more information.



**FIGURE 2**

# WIRE ROUTING

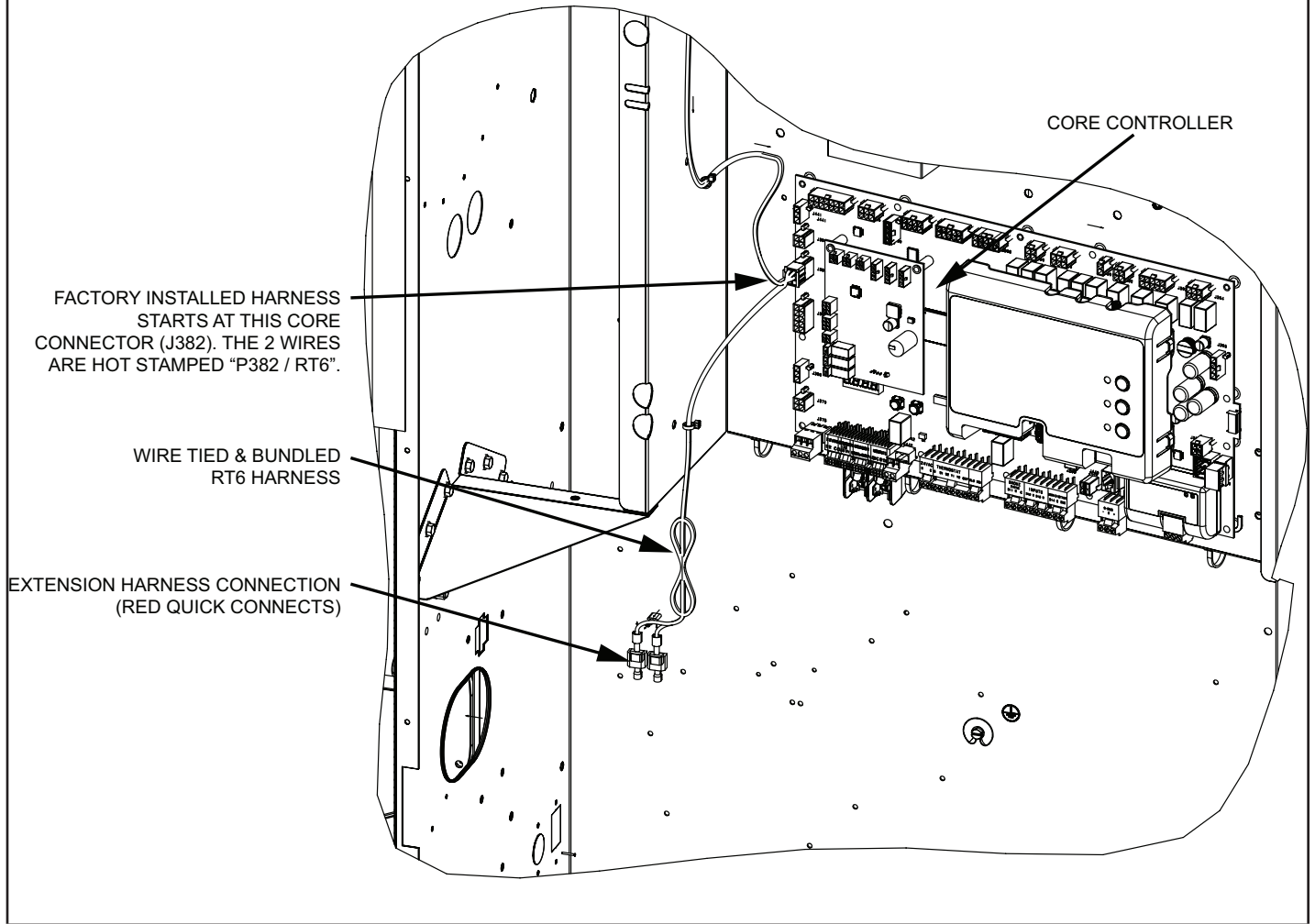


FIGURE 3