**KITS COMMON TO HEATING
AND COOLING EQUIPMENT**

506279-01
11/2014
Supersedes 8/2009

# REMOTE DISCHARGE SENSOR KIT

## INSTALLATION INSTRUCTIONS FOR REMOTE SENSOR KIT (603364-10; 58W63) USED ON LGH/LCH UNITS

## Shipping and Packing List

1- Sensor (RT6)
2- 22-foot lengths of wire
2- Screws

*NOTE - The remote sensor kit is available as a field kit or provided with the unit. When provided with the unit, the wire connections are factory-installed. The kit is located in the bottom of the compressor section on A, B, and C box units and in the control box area on E box units.*

## Application

This kit is used to remotely install RT6 temperature sensor in discharge air ductwork. The remote RT6 is commonly used in Fresh Air Tempering (FAT) and Discharge Air Control (DAC) modes.

## Install Sensor

1- Disconnect all power to unit.
2- Open compressor or blower access panels.
3- *Sensor Provided In Unit -*
Locate sensor packaging in bottom of compressor section or control box. Disconnect sensor wiring at probe.

4- On systems with ductwork, position the sensor on the first branch off of the main duct. On systems with a ceiling diffuser, position the sensor in the ductwork close to the diffuser. See figure 1. Secure in place with screws provided.
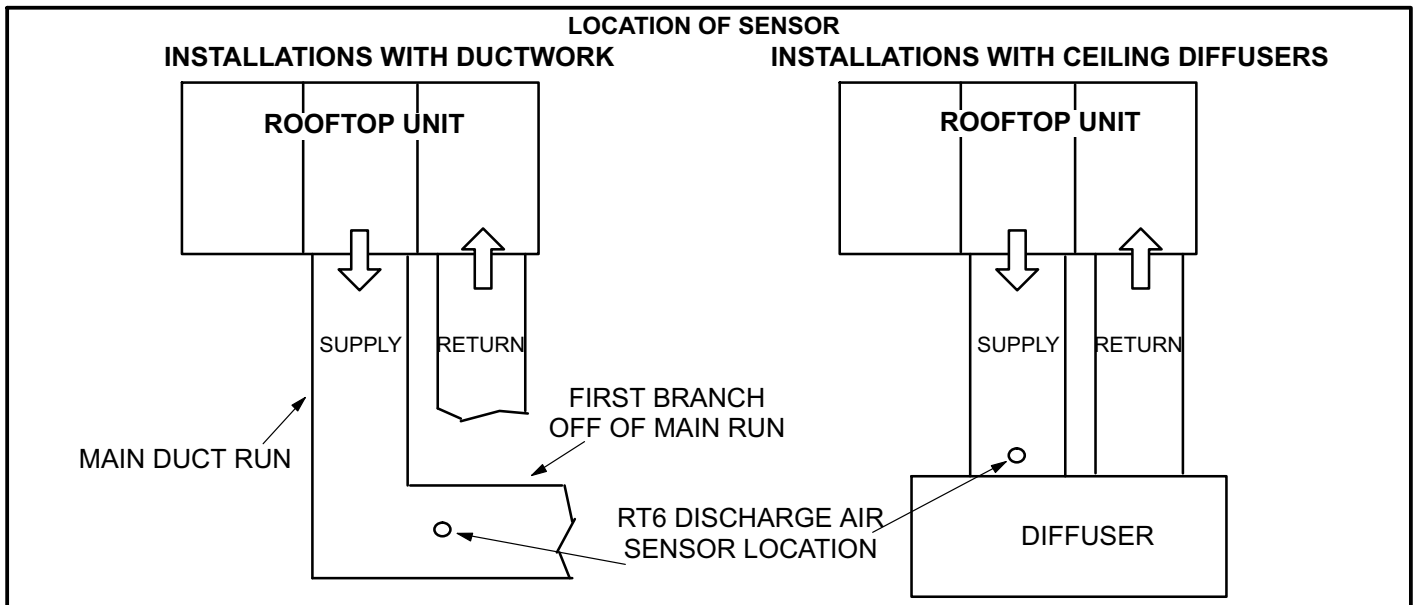
## Wiring - Factory-Installed

1- Run wiring which was disconnected from the sensor through bottom power entry and connect to sensor. Sensors are not polarized; either terminal may be used.

## Wiring - Field-Installed

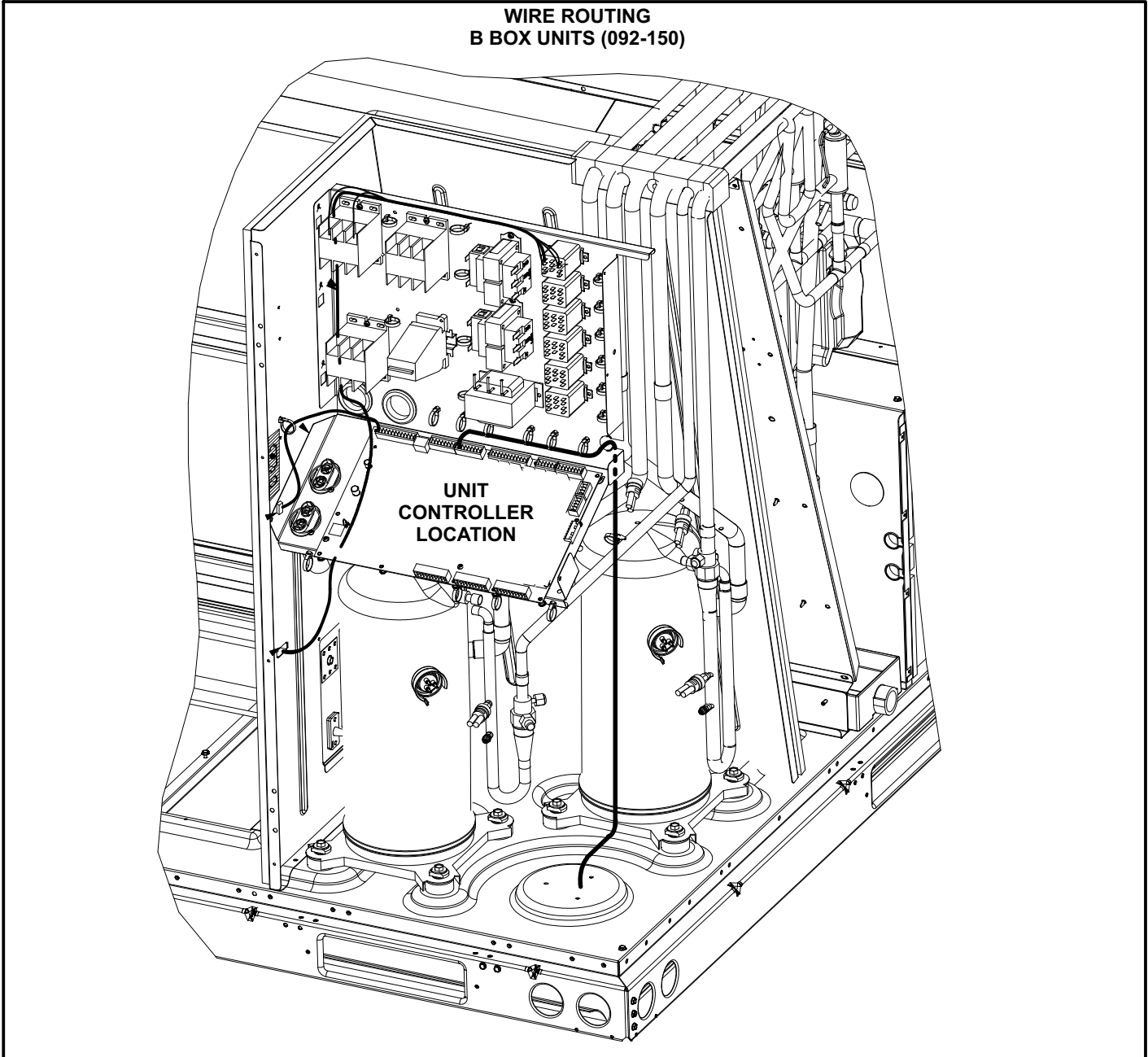*NOTE - Wiring may be spliced with a minimum 18 gauge wire not to exceed 25 feet (7.6m) total run.*

1- Connect plug on wires to Unit Controller jack J264-1 and 2. Refer to Unit Controller manual provided with unit.

2- Route wiring from Unit Controller through unit bottom power entry to the sensor (previously mounted in the supply duct). See appropriate figure 2 or 3.

3- Connect wires to the sensor. Sensor is not polarized; either terminal may be used.



**LOCATION OF SENSOR**

**INSTALLATIONS WITH DUCTWORK**

ROOFTOP UNIT

SUPPLY   RETURN

MAIN DUCT RUN

FIRST BRANCH OFF OF MAIN RUN

RT6 DISCHARGE AIR SENSOR LOCATION

**INSTALLATIONS WITH CEILING DIFFUSERS**

ROOFTOP UNIT
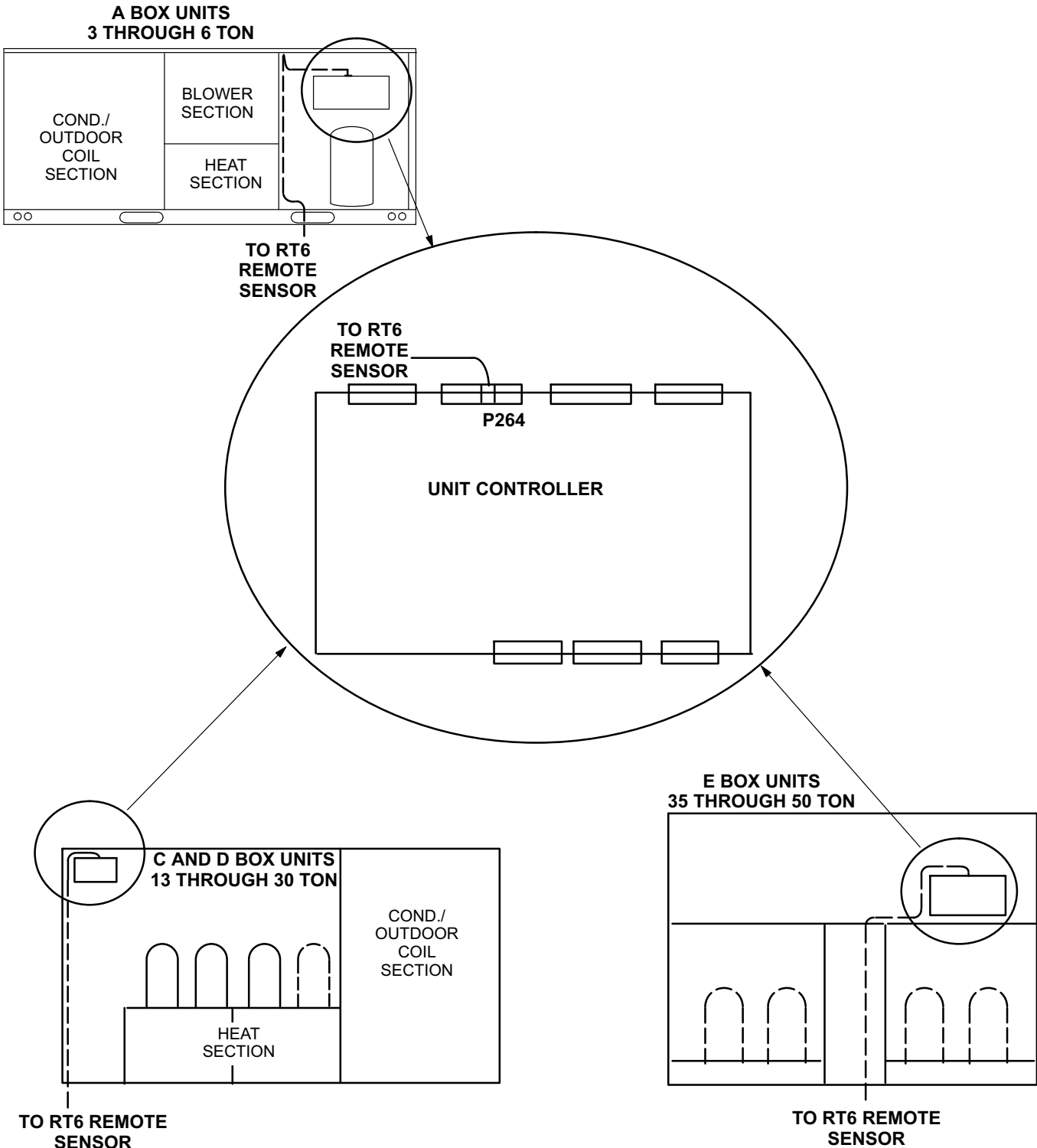
SUPPLY   RETURN

DIFFUSER

**FIGURE 1**

1114

506279-01

## 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.

**WIRE ROUTING**
**B BOX UNITS (092-150)**



**UNIT CONTROLLER LOCATION**

**FIGURE 2**

**WIRE ROUTING**
**A, C, D, AND E BOX UNITS (036-072 & 156--600)**

**A BOX UNITS**
**3 THROUGH 6 TON**

COND./
OUTDOOR
COIL
SECTION

BLOWER
SECTION

HEAT
SECTION

**TO RT6**
**REMOTE**
**SENSOR**

**TO RT6**
**REMOTE**
**SENSOR**

**P264**

**UNIT CONTROLLER**

**C AND D BOX UNITS**
**13 THROUGH 30 TON**

COND./
OUTDOOR
COIL
SECTION

HEAT
SECTION

**TO RT6 REMOTE**
**SENSOR**

**E BOX UNITS**
**35 THROUGH 50 TON**

**TO RT6 REMOTE**
**SENSOR**

**FIGURE 3**