

# E-SDPCB Duct Smoke Detector PCB Replacement Kit Installation Sheet

## Description

The duct smoke detector PCB replacement kit is used to repair E-PDD duct smoke detectors in the field. The kit contains a printed circuit board and two sensing chamber gaskets.

## Installation

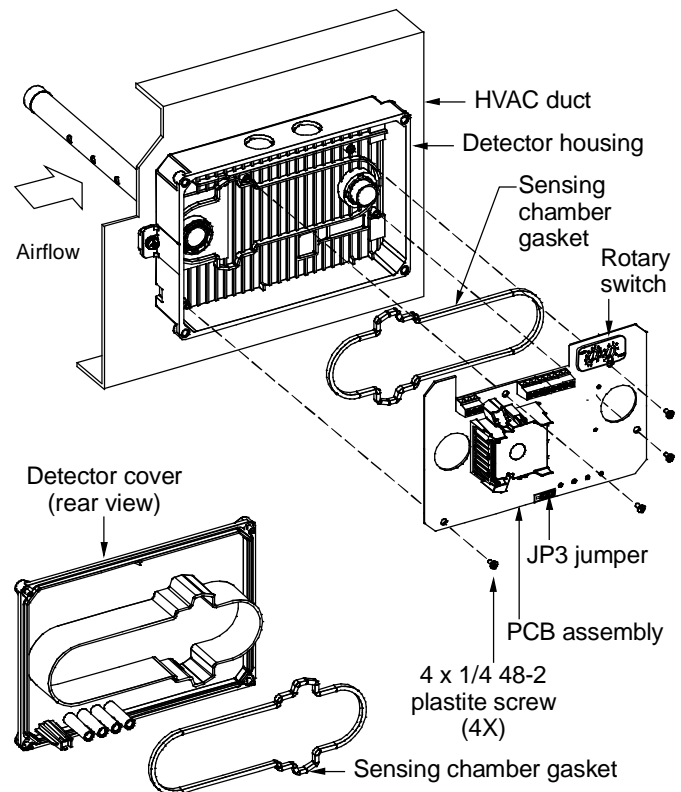
**WARNING:** Before replacing the duct smoke detector's printed circuit board assembly, notify the proper authorities that the fire alarm system is undergoing maintenance and take steps to prevent the control panel from responding to a false alarm.

**Caution:** This product contains components that are sensitive to static electricity. Use approved handling precautions to prevent damage from electrostatic discharge.

### To replace the detector printed circuit board:

1. Remove and retain the four screws securing the detector cover, then remove the cover.
2. Identify the wire locations at the terminal blocks, then disconnect wires.
3. Note the device address set on the rotary switches, then set the same device address on the replacement printed circuit board.
4. Note the position of the JP3 jumper, and then set the same JP3 jumper setting on the replacement printed circuit board.
5. Remove and retain the four screws securing the printed circuit board to the detector housing, and then remove the printed circuit board.
6. Replace the sensing chamber gasket on the detector housing with a new gasket from the kit.
7. Secure the replacement printed circuit board to the detector housing using the four screws previously removed.
8. Connect the terminal block wiring at the locations marked during removal.
9. Replace the sensing chamber gasket on the detector cover with a new gasket from the kit.
10. Secure the detector cover to the detector housing using the four screws previously removed.
11. Test the detector in accordance with "Testing".

Figure 1: Replacement diagram



## Testing

After replacing the duct smoke detector printed circuit board, the unit must be tested to ensure it is operating correctly before leaving the job site. For details, refer to Technical Bulletin P/N 3101212.

