INSTALLATION INSTRUCTIONS
Smoke Detector Kit (RXRX-BS03, 04)
GED / ACD / HPD 7.5 Ton thru 12.5 Ton
ROOFTOP UNITS

⚠ Recognize this symbol as an indication of Important Safety Information!

⚠WARNING

THESE INSTRUCTIONS ARE INTENDED AS AN AID TO QUALIFIED SERVICE PERSONNEL FOR PROPER INSTALLATION, ADJUSTMENT AND OPERATION OF THIS KIT. READ THESE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING INSTALLATION, ADJUSTMENT, OR OPERATION. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN IMPROPER INSTALLATION, ADJUSTMENT, SERVICE OR MAINTENANCE, POSSIBLY RESULTING IN FIRE, ELECTRICAL SHOCK, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

⚠WARNING

BEFORE BEGINNING ANY MODIFICATION, BE SURE MAIN DISCONNECT SWITCH IS IN THE "OFF" POSITION. FAILURE TO DO SO CAN CAUSE ELECTRICAL SHOCK RESULTING IN PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. TAG DISCONNECT WITH A SUITABLE WARNING LABEL.

TOOLS REQUIRED

- 5/16" nut driver.
- Diagonal cutting pliers for clipping wire ties.
- 5/16" flat-blade and Philips screwdriver.
- Multimeter for troubleshooting (optional).
- Adjustable Pipe Wrench

PURPOSE

The Smoke Detector checks for the presence of smoke in the air stream and provides a signal to the unit controller when a smoke condition is detected. The unit controller has the ability to respond to the smoke condition signal in multiple ways. The Unit Controller's Default Response to a signal indicating a smoke condition causes Power from the Compressor & Fans to be Removed and to display Smoke Detection as an Active Alarm.

INSTALLATION PROCEDURE

A. Open Filter Access Door and Lower Return Air Panel.

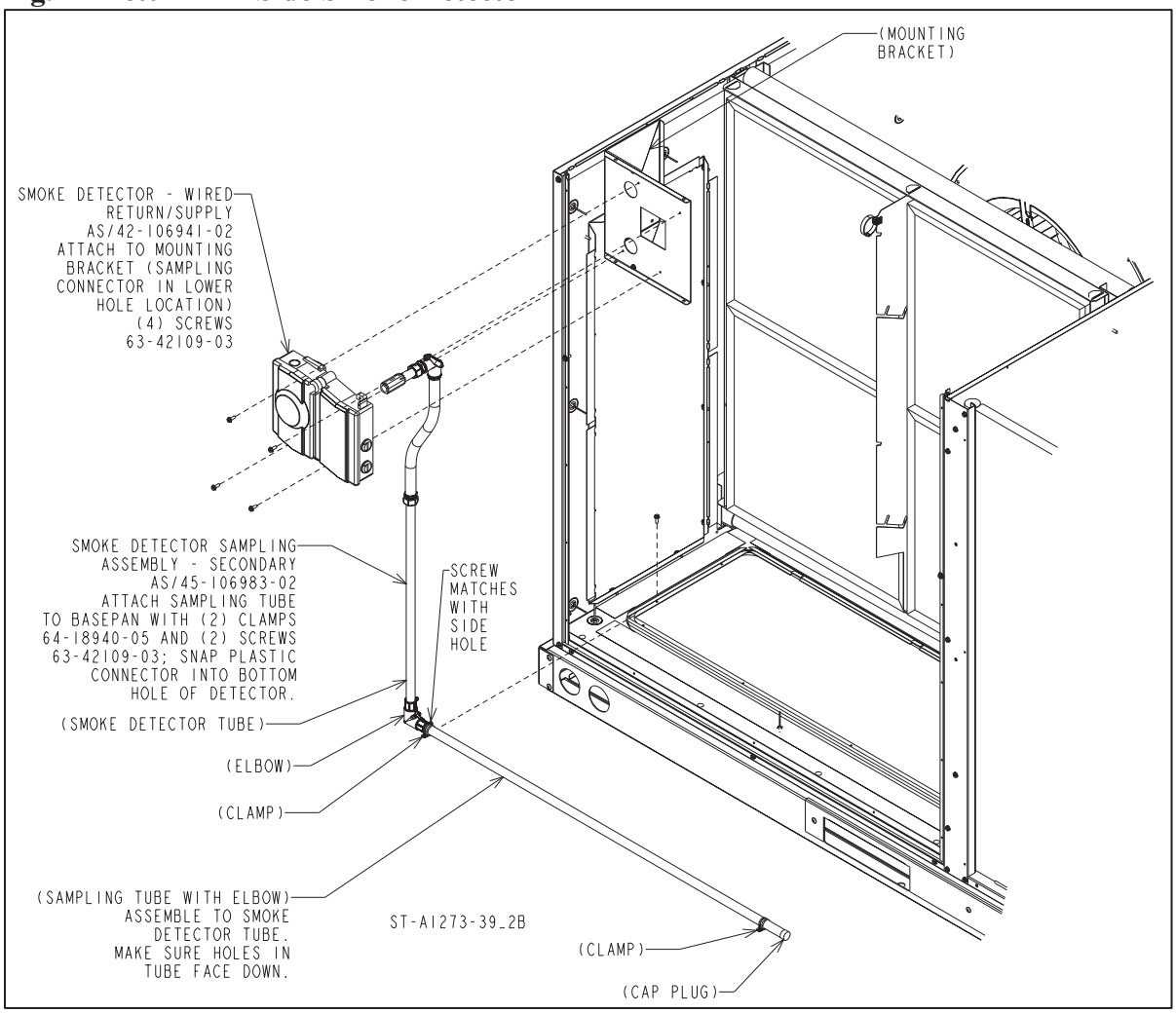
B. Remove control box cover and set aside (some models).

C. Attach Smoke Detector with Mounting Bracket in Return Air Compartment (see attached Fig. 1 thru 1f)

D. Attach the EMT Connectors, Conduit, and Tubing as shown in the attached figure 1

E. Review unit wiring diagram and attached accessory wiring diagram Fig. 2 // Fig 3 // Fig 4. Connect the Smoke Detector Power Module into PL-34 located near the divider panel.

Fig. 1 Return Air Side Smoke Detector



Opt. Smoke Detector Mounting Bracket Extension on Tall Cabinet Config.

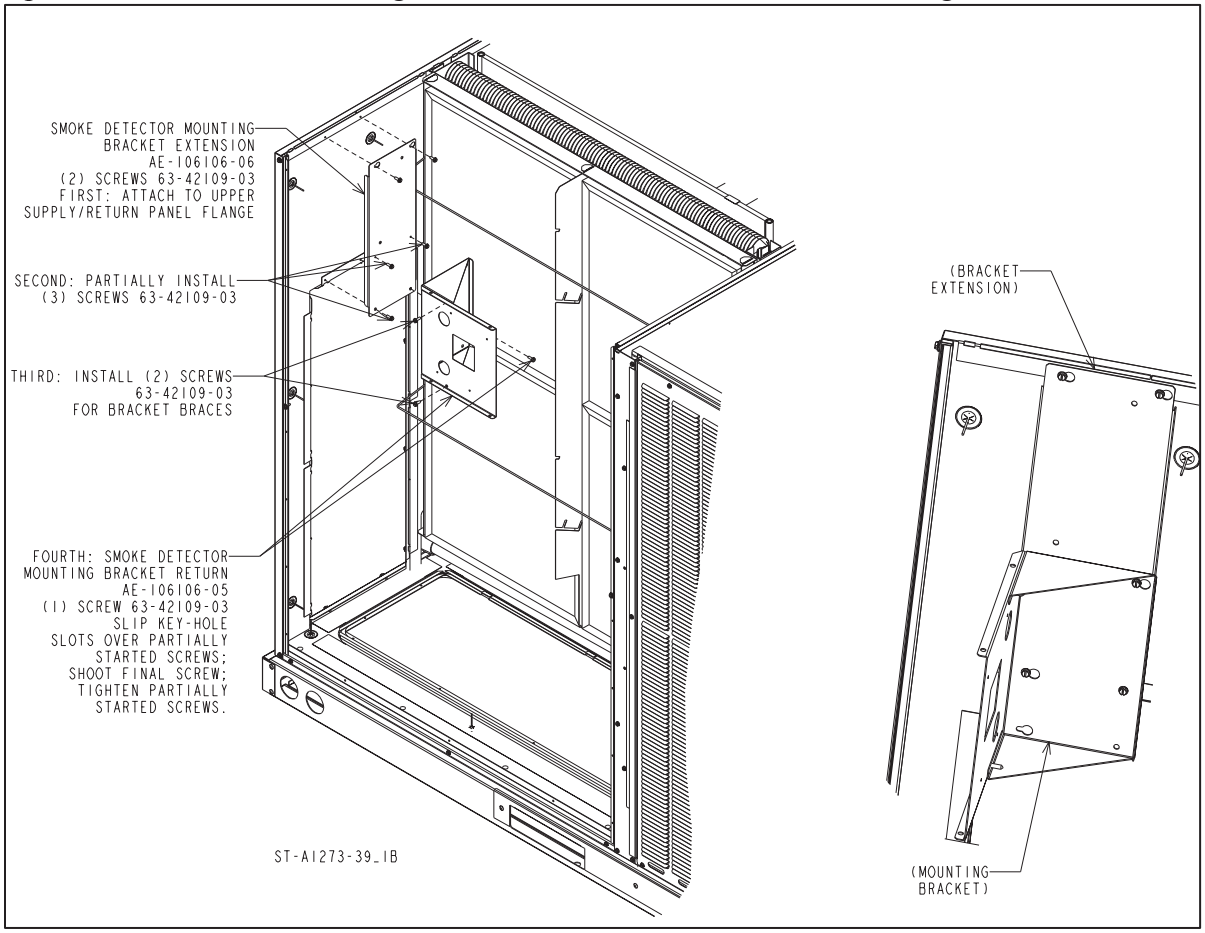


Fig. 1a Return Air Smoke Detector (Conversion from Down-Flow to Side-Flow)

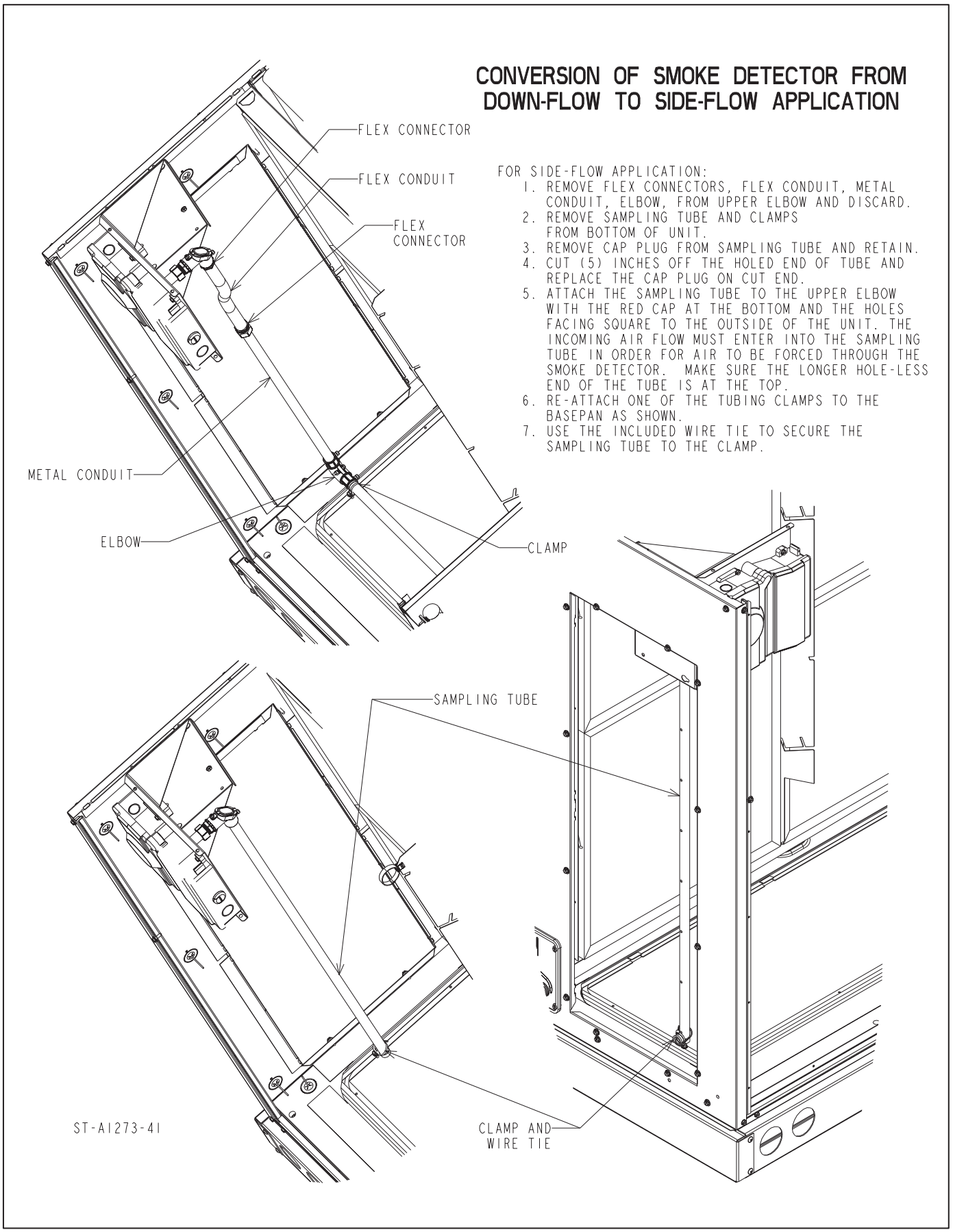


Fig 1a Return Air Smoke Detector (Side-Flow Configuration)

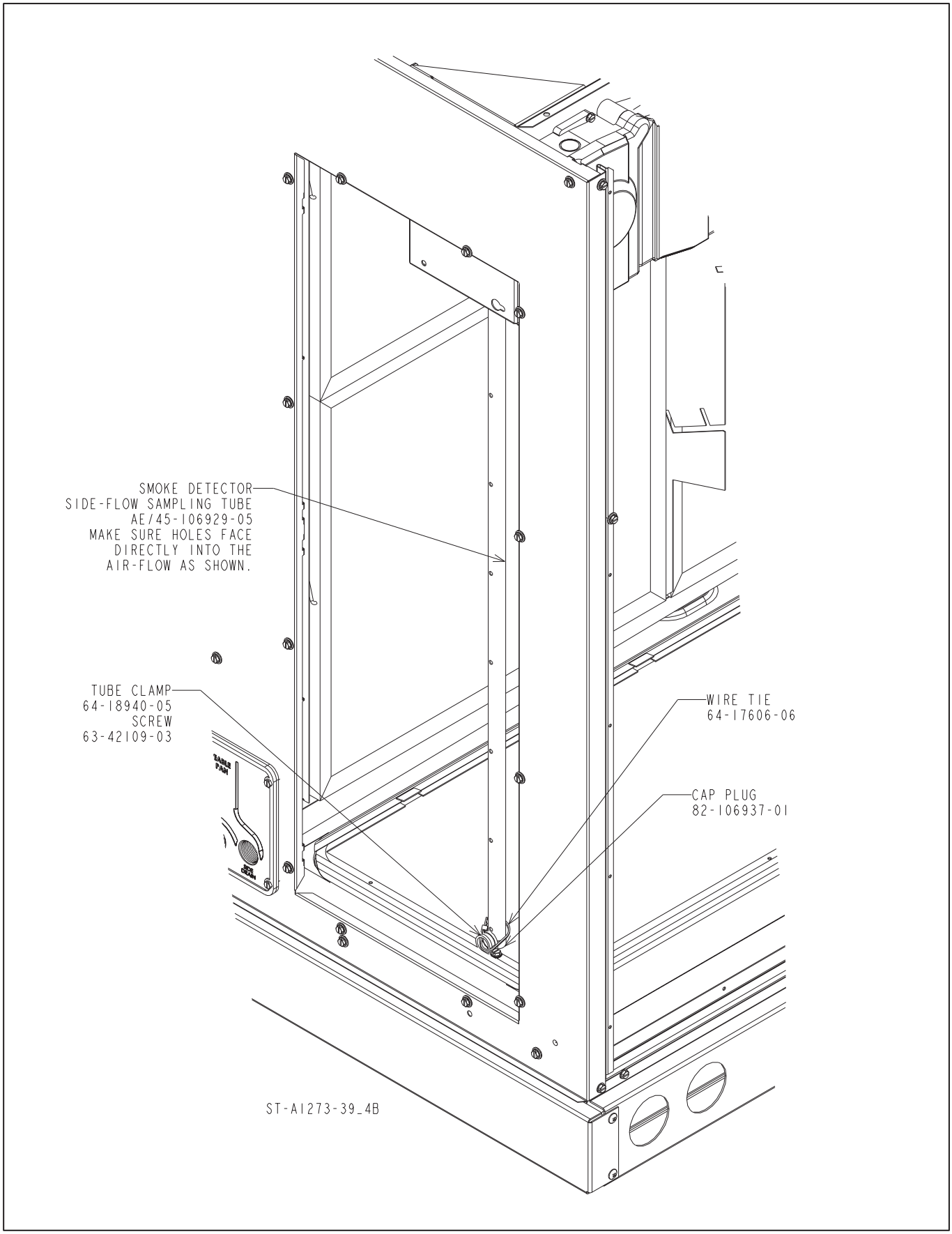


Fig. 1b Supply Air Side Smoke Detector Mounted on In-Door Blower Fan

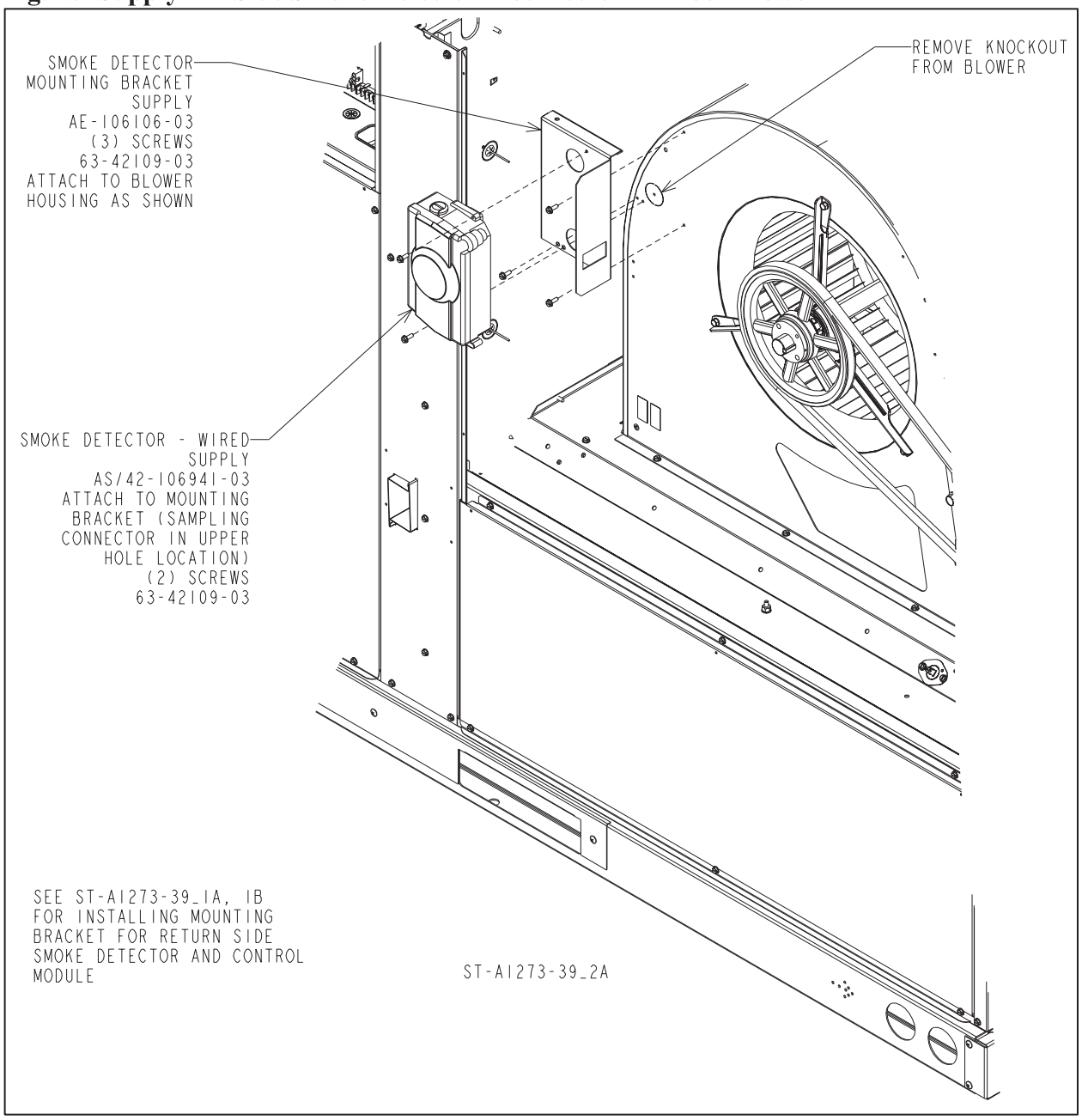


Fig. 1c Horizontal Economizer configured with Smoke Detector

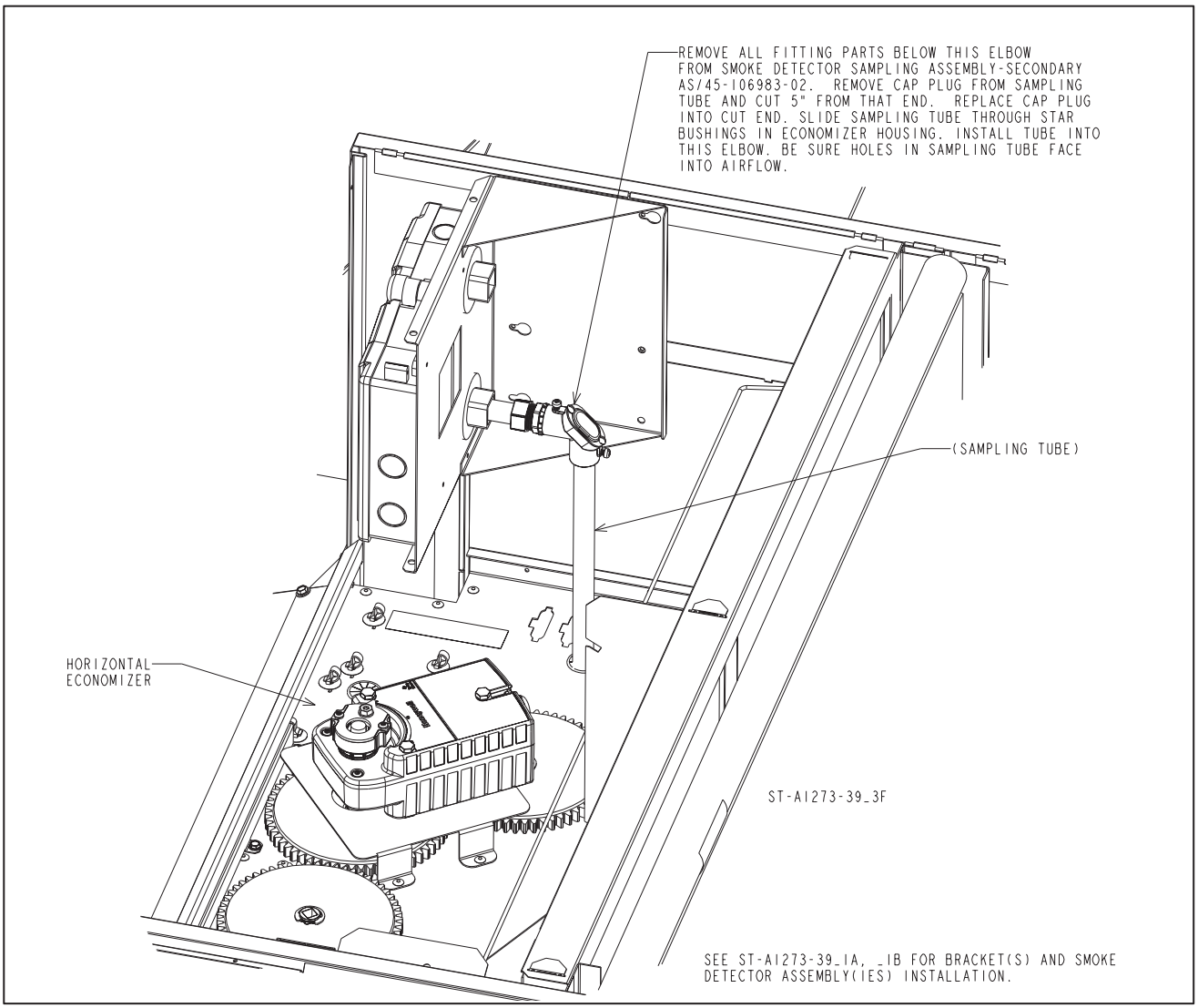


Fig. 1d Horizontal Economizer configured with Smoke Detector

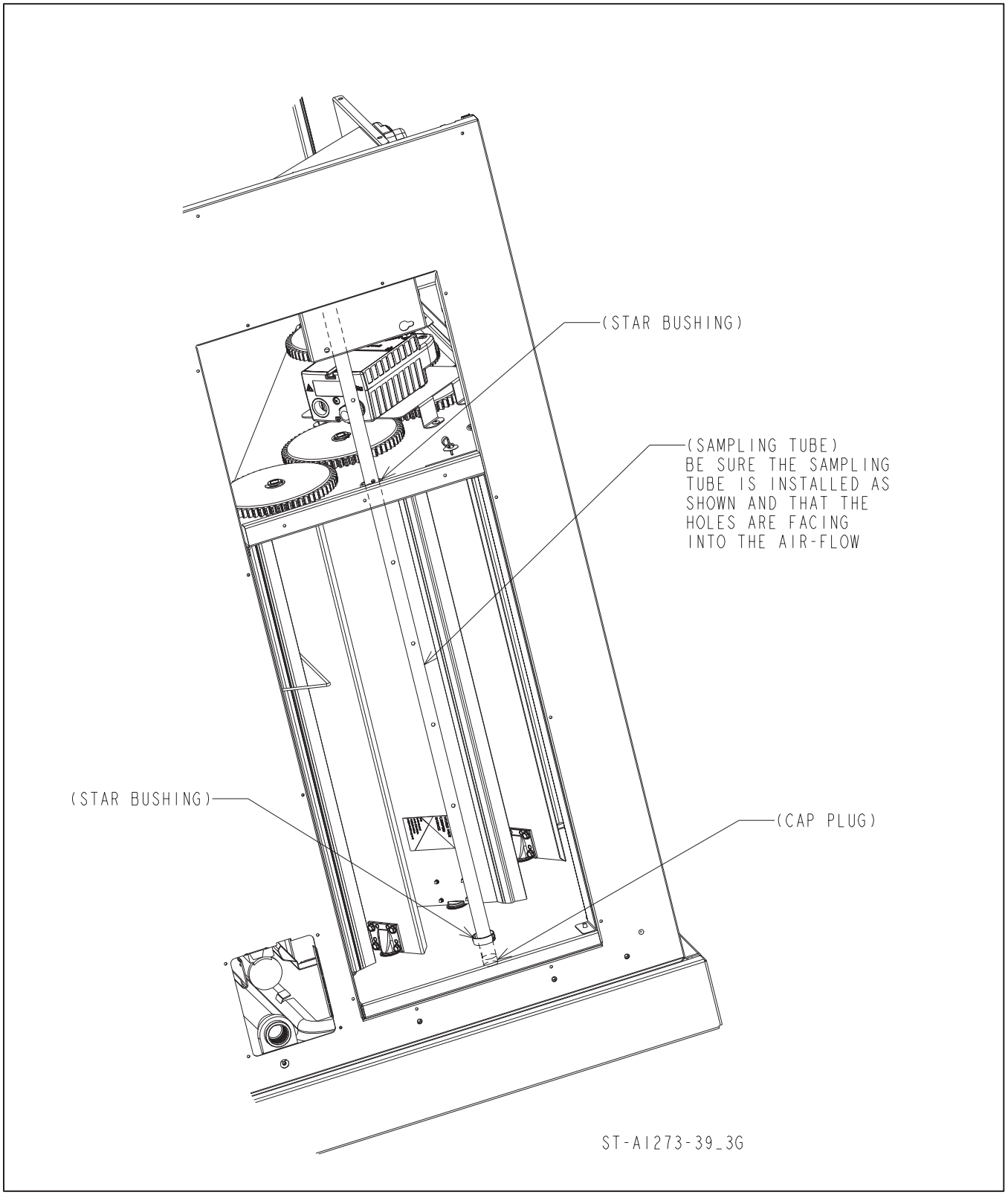


Fig 1e Smoke Detector configured with Vertical Economizer

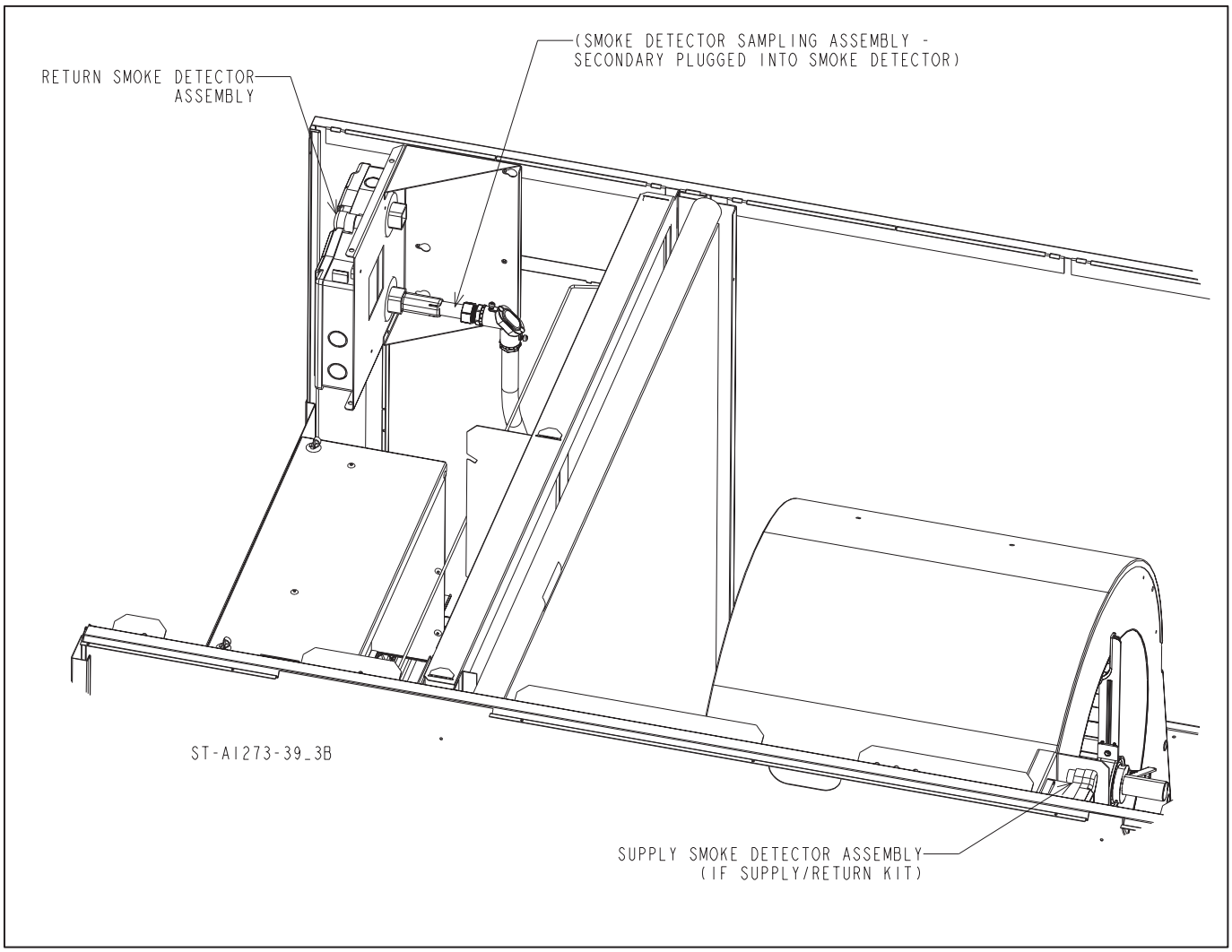


Fig. 1f Smoke Detector configured with Vertical Economizer

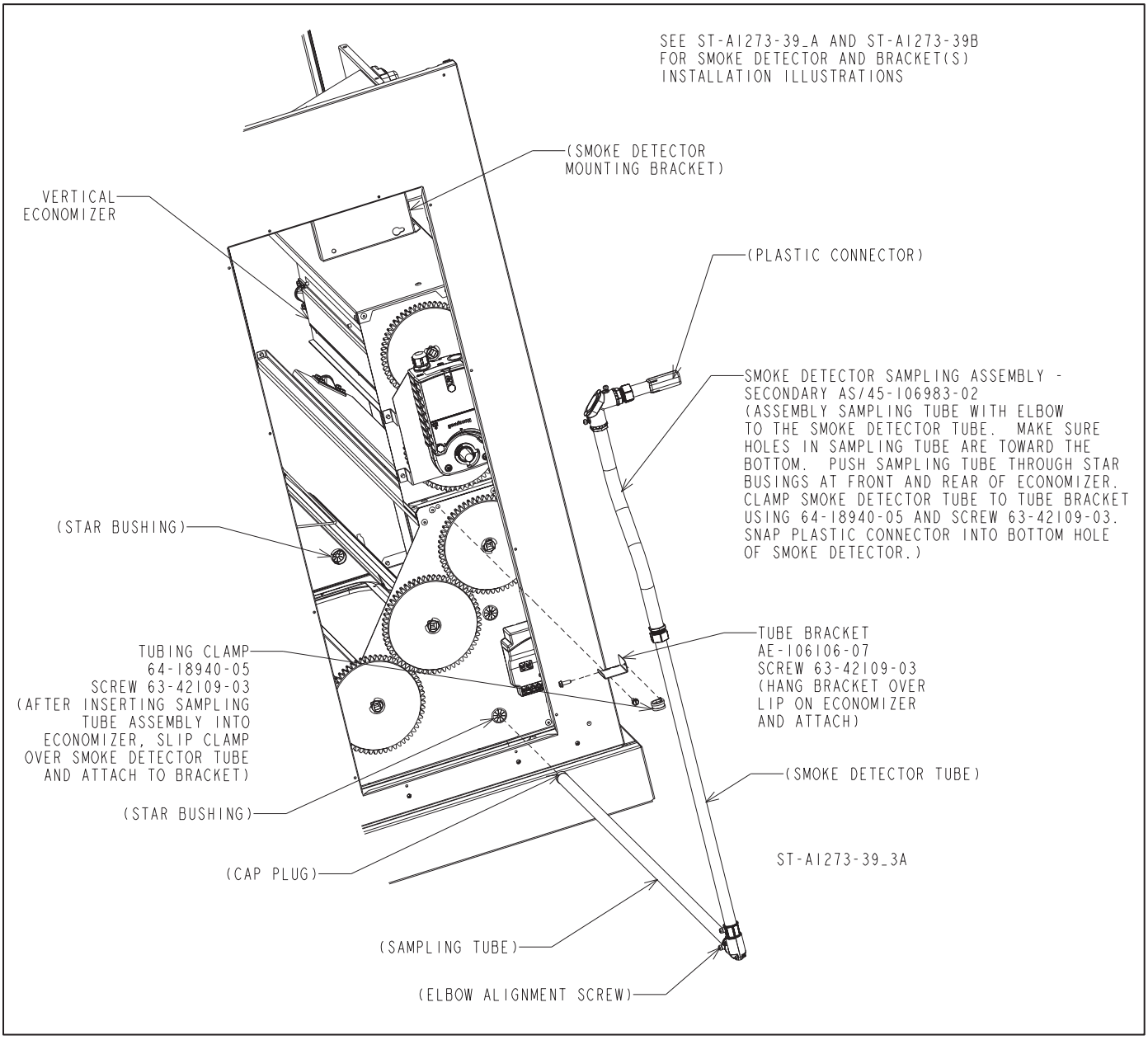


Fig. 2 Smoke Detector Wire Routing

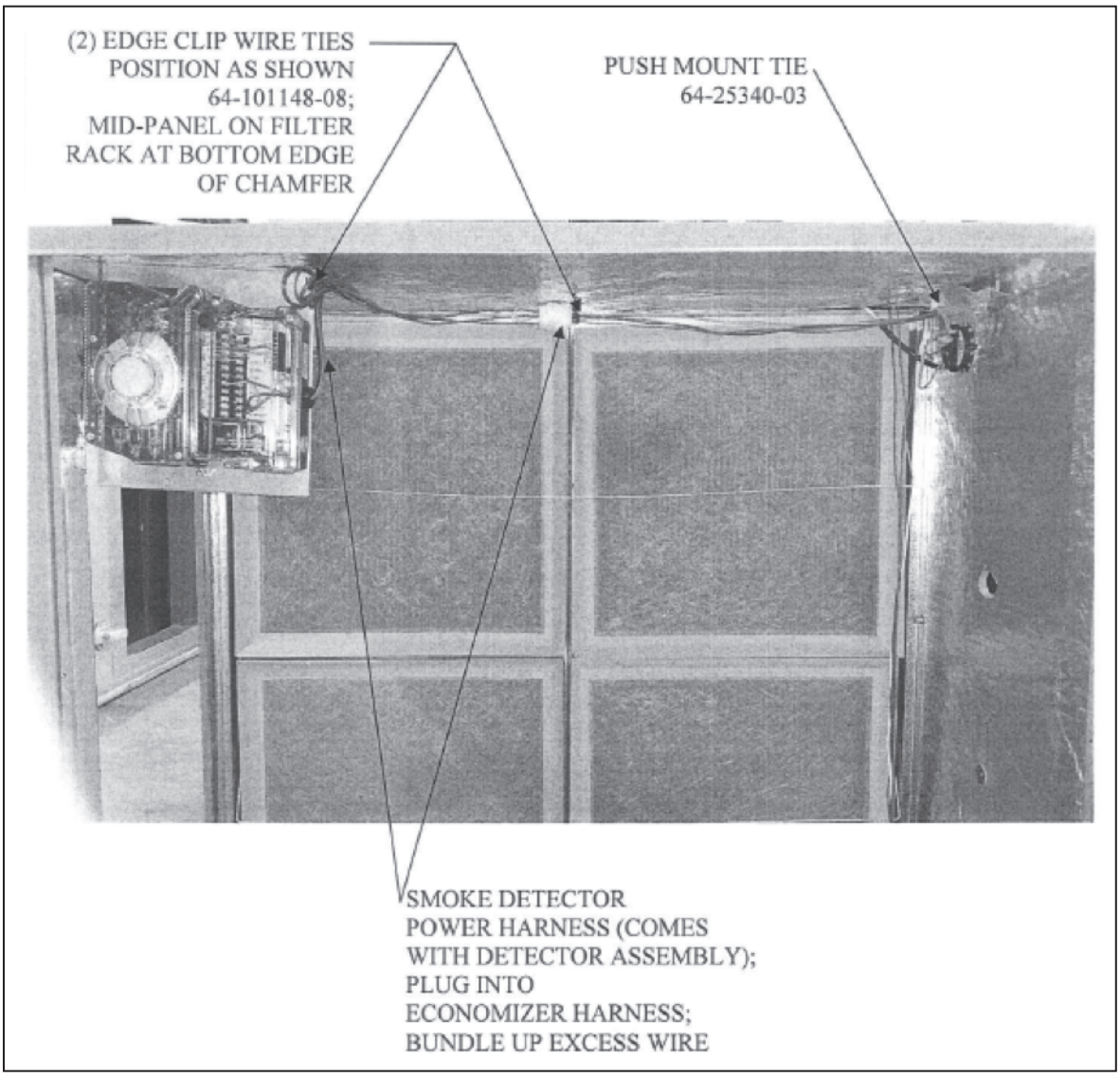


Fig. 2a Smoke Detector Wire Routing shown with Horizontal Economizer

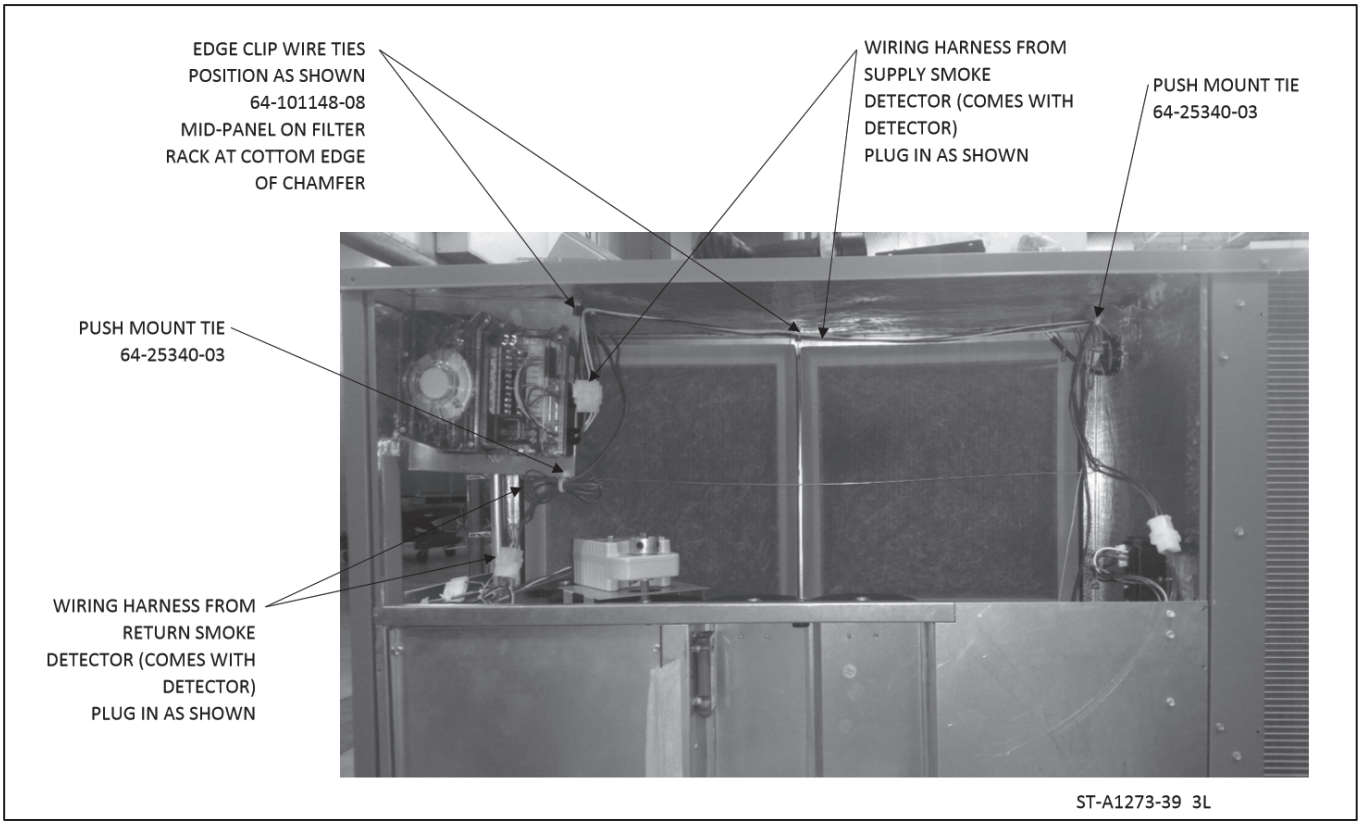


Fig. 3 Smoke Detector Wire Routing (Tall Cabinet)

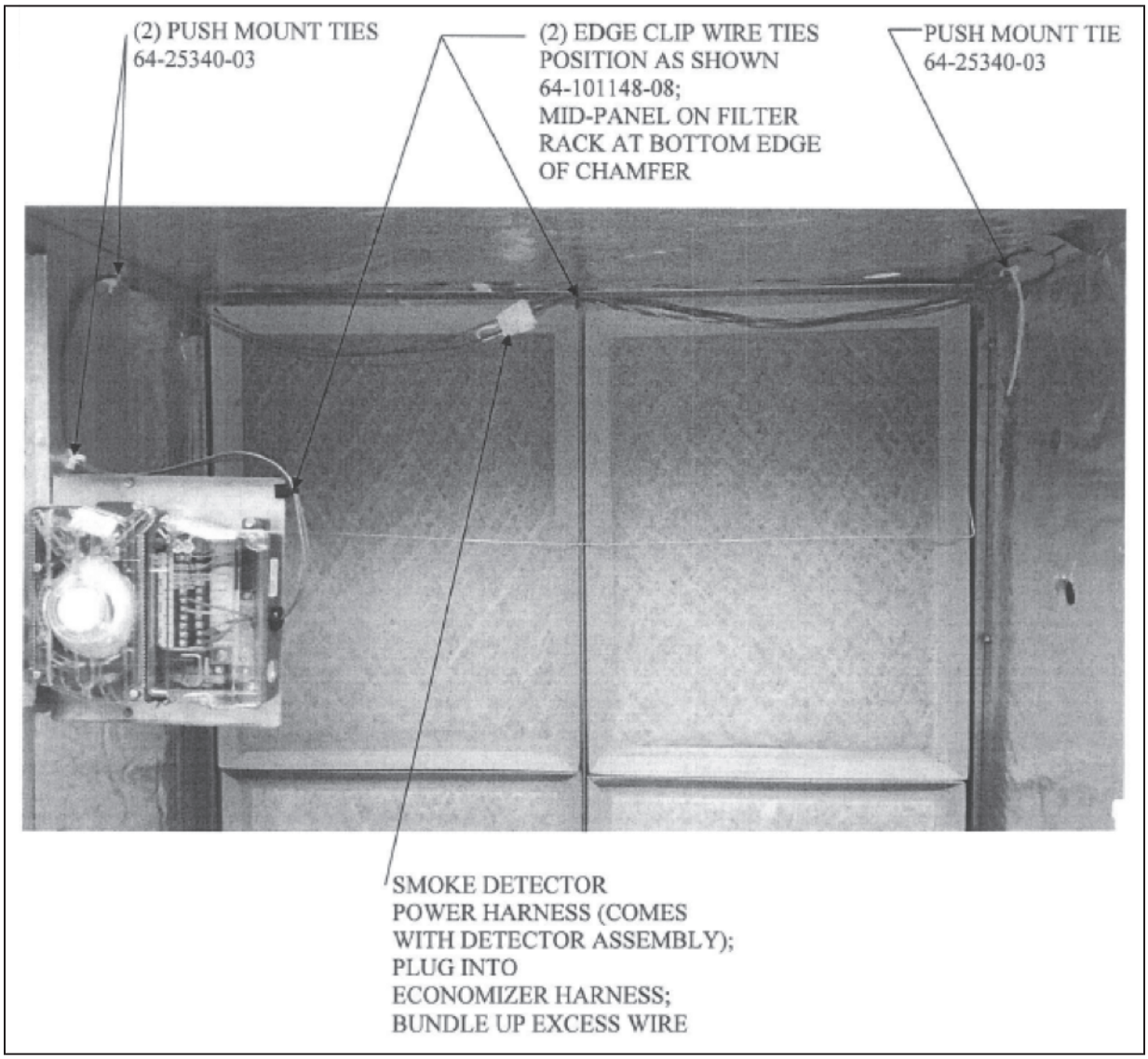


Fig. 3a Smoke Detector Wire Routing shown with Horizontal Economizer (Tall Cabinet)

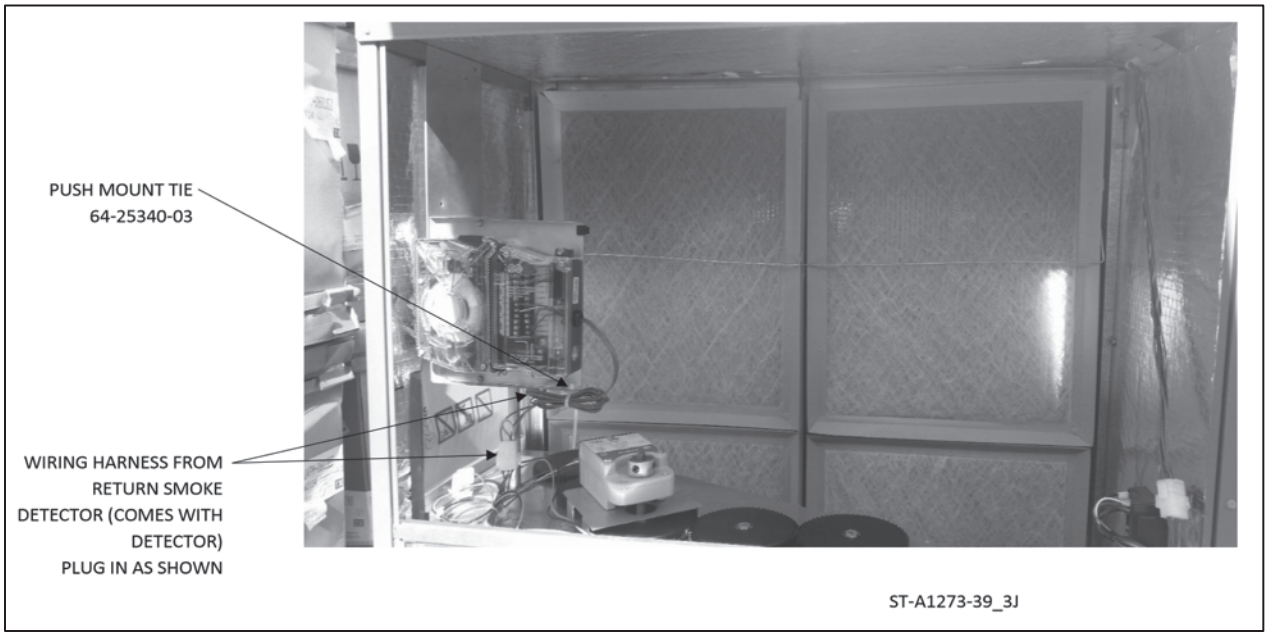
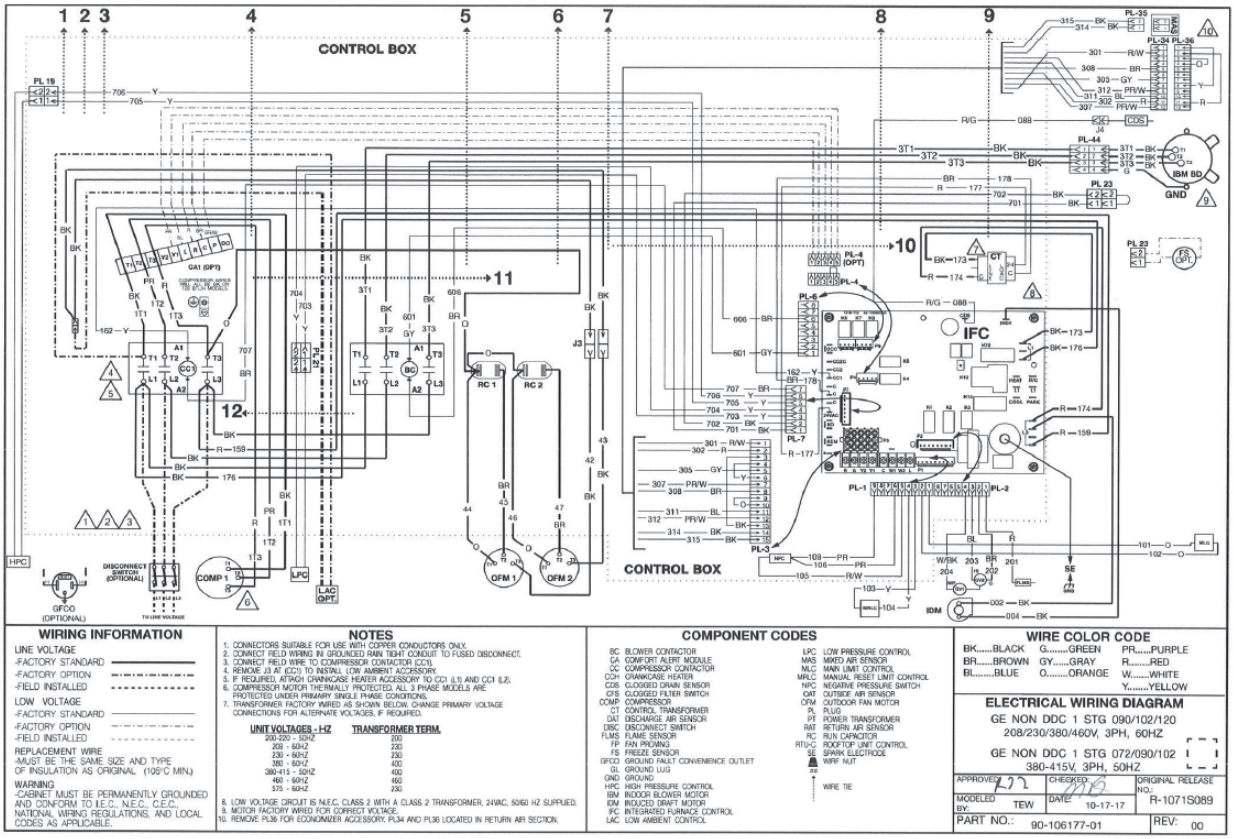
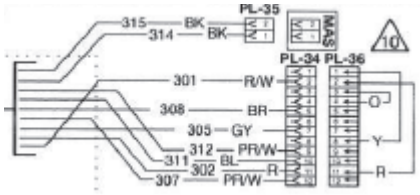


Fig. 4

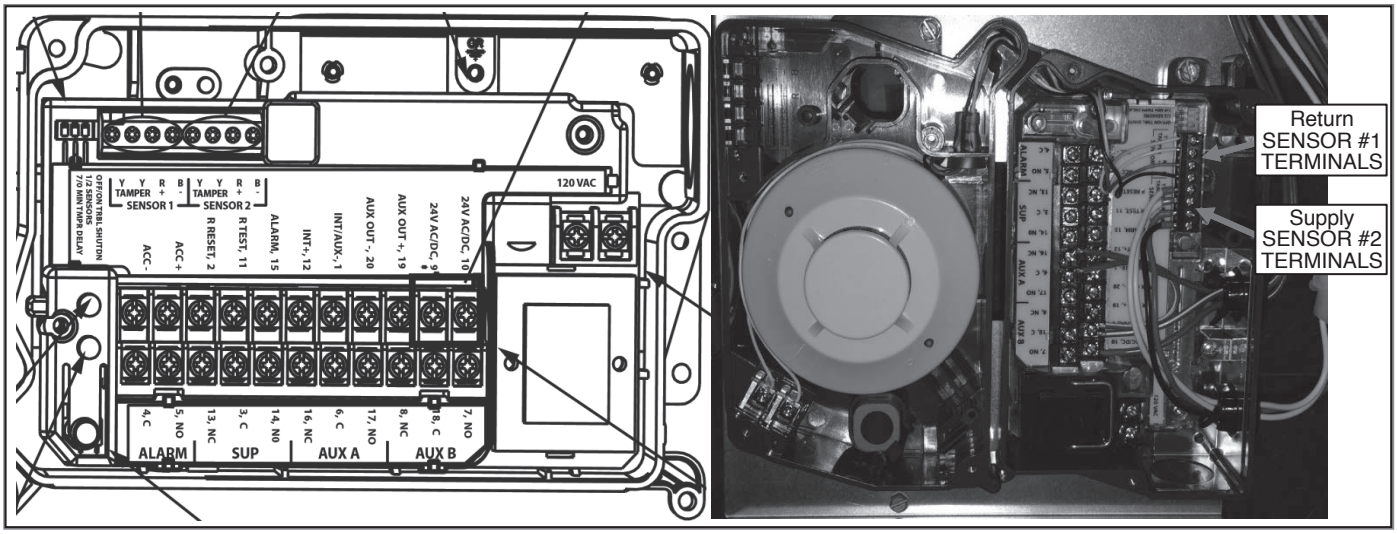


Remove Plug PL-36 from the main harness.



To activate the Smoke Detector, attach the Smoke Detector Power Module to the PL-34 Connection.

Smoke Detector Module:



(Supply Sensor #2 is an Optional Config.)

Re-attach and secure all external panels; & confirm that harness connections are secured with wire ties.