

AEM03FB0B & AEP03FB0B Economizers are used with 13 SEER models PGF/PAF/PHF 330-360 units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

Additional models that these economizers support are 3 phase 10 and 12 SEER models (PGF036-060, PHF048-060, and PAF048-060) (GPFM36-60, HPFM48-60, and APFM48-60). These units **require** the additional component of a field installed interchange harness (AEP001A) between unit wiring plug and economizer plug. This item is purchased separately.

## Step 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Outdoor Air Hood (Attached to Economizer)
- 1 - Internal Divider
- 1 - Wire Harness
- 1 - Wiring Diagram Sticker
- 6 - #10 - 16 x ½ Hex Screws (Self-tapping)

## Step 2:

Remove mixed air sensor and wire harness from Economizer.

## Step 3:

Disconnect all power to unit.

## Step 4:

Remove the return air access panel and both return air duct covers. **See Figure 2.**

## Step 5:

Remove electrical access panel.

## Step 6:

Remove the screws on the unit top and disconnect plug from the fan motor to the electric compartment of unit, then remove top of unit.

## Step 7:

Route the cable through the unit as shown. **See Figure 3.** The short gray wires will be used for the discharge air sensor. Then wire the harness into the low voltage of unit per diagram.

## Step 8:

Install the mixed air sensor in blower section of the unit. Drill a hole in the divider wall and mount the sensor as shown in **Figure 3.**

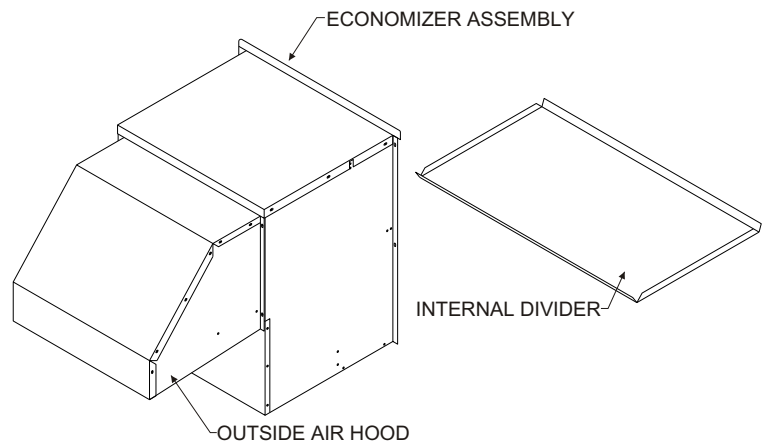


Figure 1

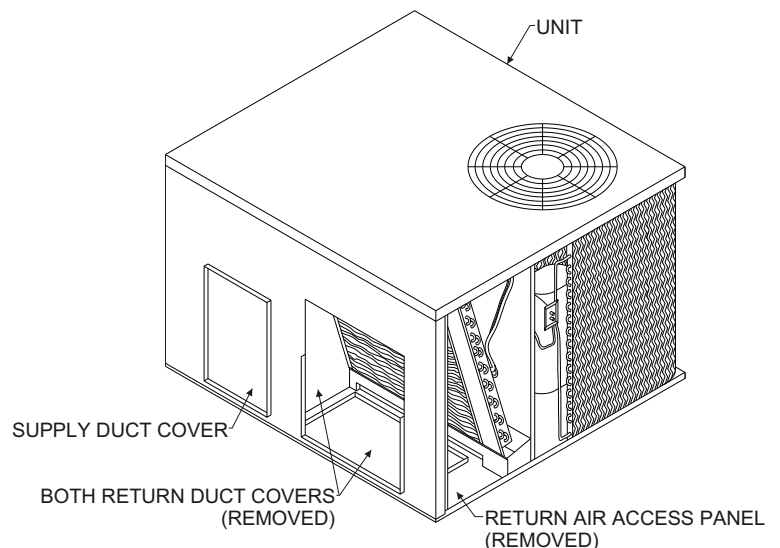


Figure 2

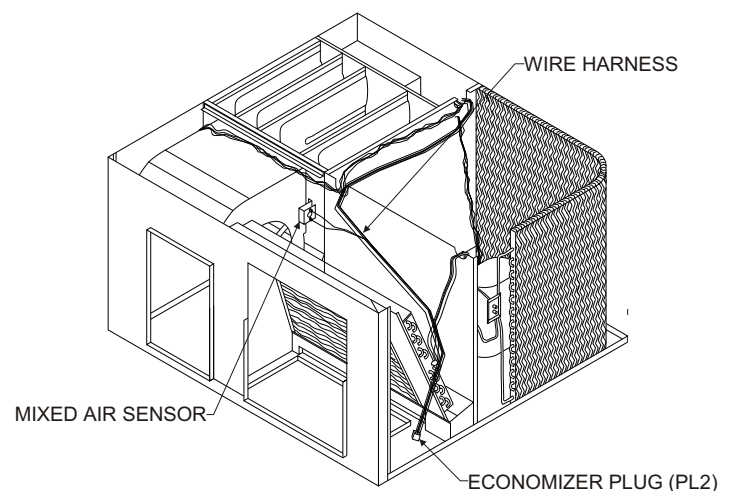


Figure 3

**Step 9:**

Place the adhesive backed wiring diagram on the electrical access door by the unit diagram.

**Step 10:**

Insert Economizer Divider through return access panel and place over bottom return opening as shown in **Figure 4**.

**Step 11:**

Then mount economizer assembly over horizontal return duct opening. Align holes in top flange with holes in unit. Then using the self-tapping screws provided to secure to face of unit.

**Step 12:**

Slide S-clip over middle divider and internal divider.

**Step 13:**

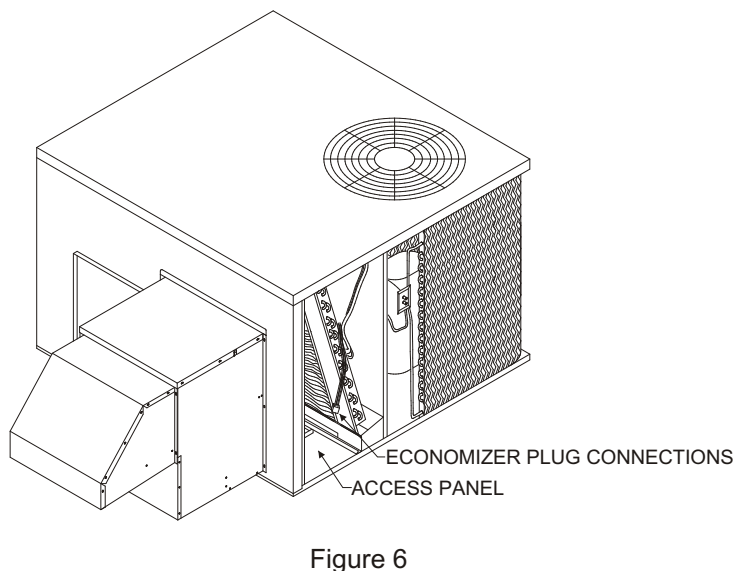
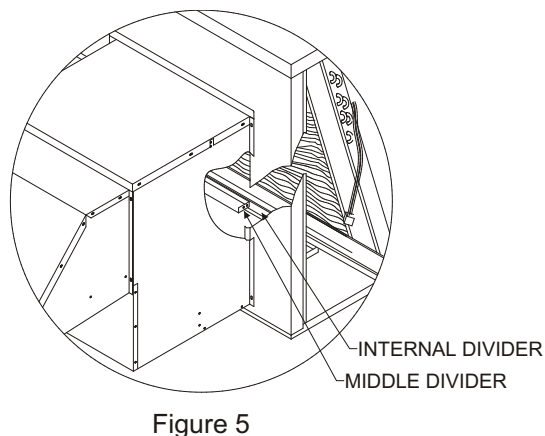
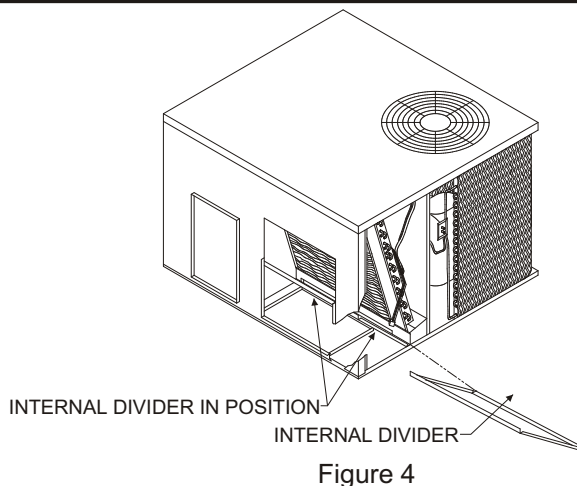
Make the connection of the Economizer plug to the unit Economizer plug. See the enclosed Honeywell specification data for operation and check out.

**Step 14:**

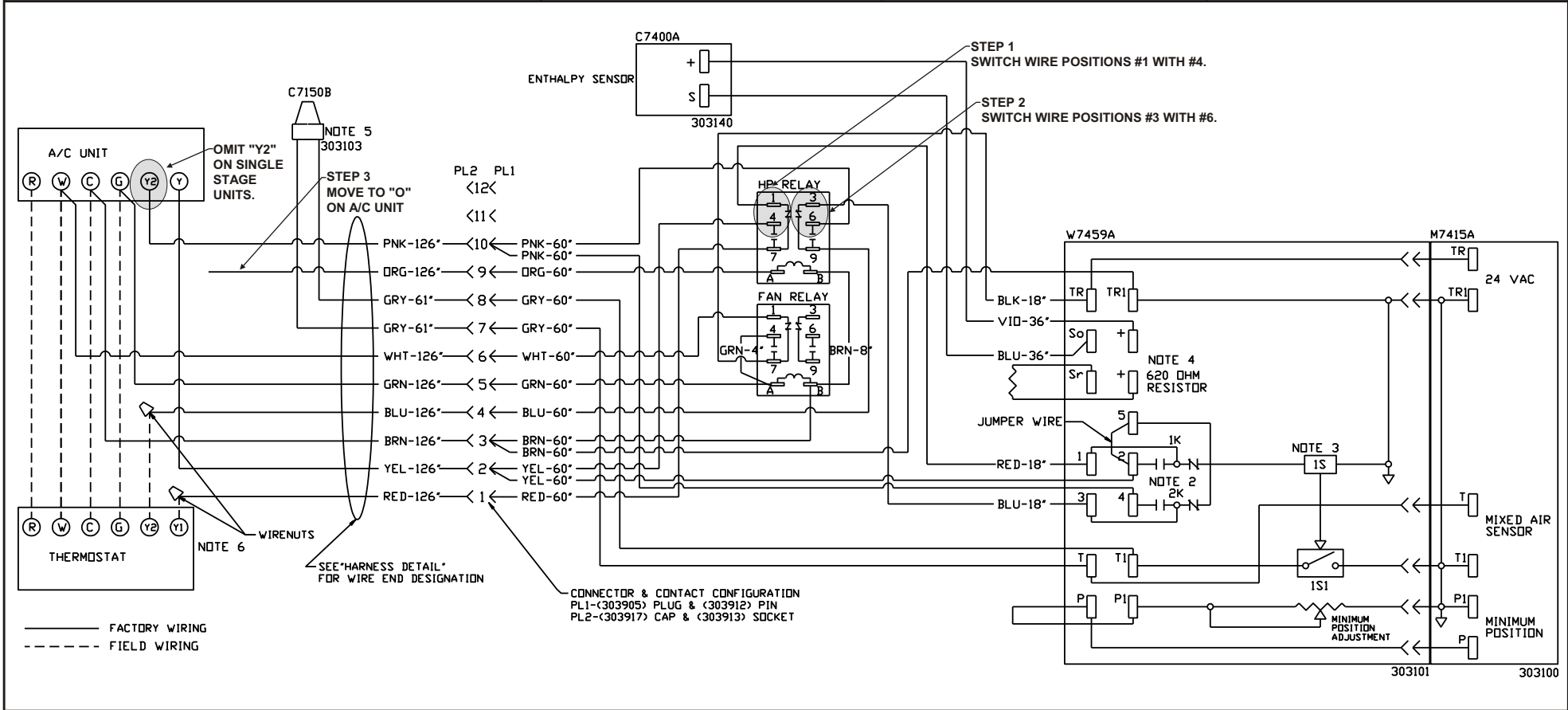
Install all removed panels. Being sure to plug fan motor back in the unit low voltage compartment.

**Step 15:**

Turn power back on to the unit.

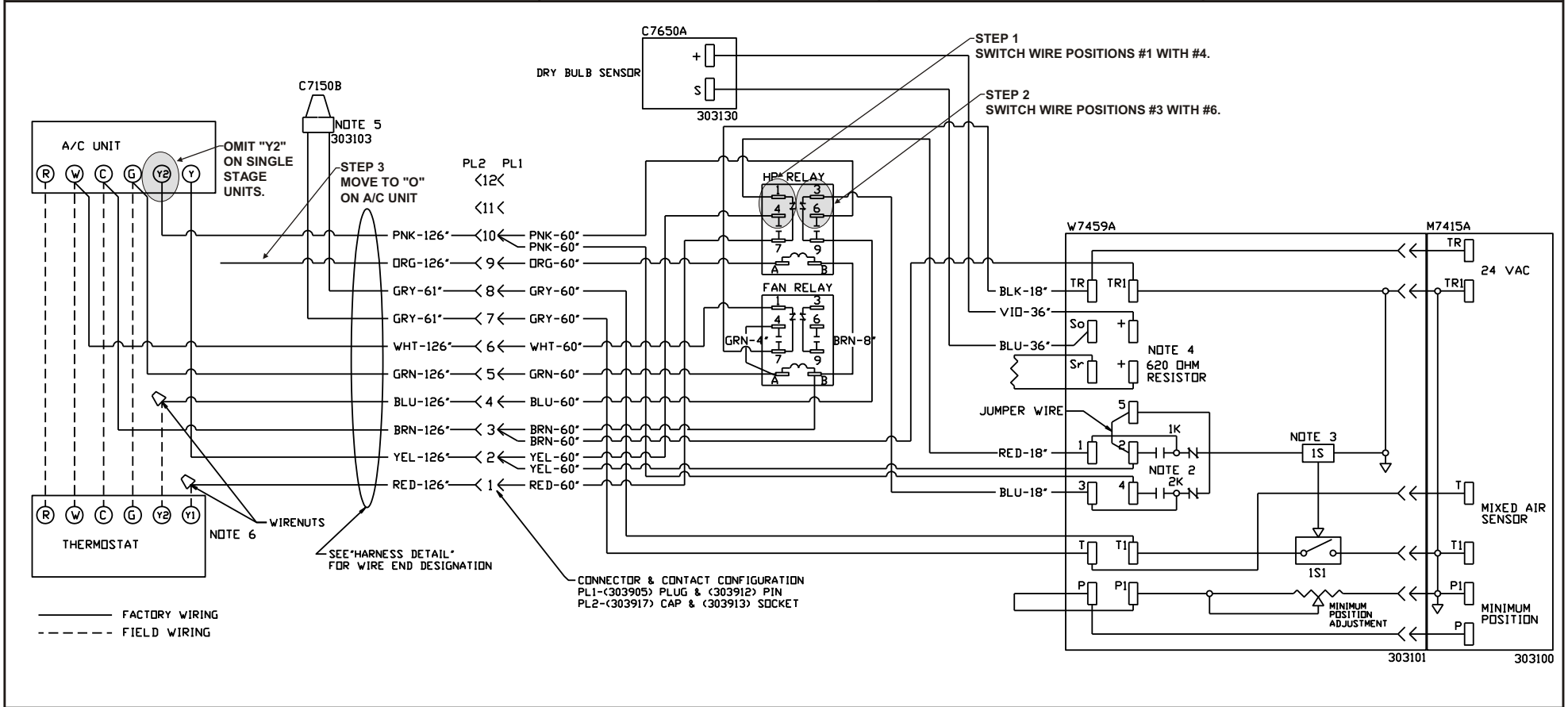


HARNESS DETAIL		COMPONENT CODE	WIRE COLOR CODE		Revision	Change	Date
<b>E# = WIRE END DESIGNATION</b>		C7150B Mixed Air Sensor	BLK	Black	BLU	Blue	
E3 Female ¼ Quick Disc.	E3 — GRY- 61"	C7400A Fresh Air Enthalpy Sensor	BRN	Brown	GRN	Green	
E6 Wire Nut	E6 — GRN- 126"	M7415A Damper Actuator 24v	GRY	Gray	ORG	Orange	
	E6 — RED- 126"	PL1 Economizer Plug (Male)	PNK	Pink	RED	Red	
	E6 — BLU- 126"	PL2 Economizer Plug (Female)	VIO	Violet	WHT	White	
	E6 — ORG- 126"	W7459A Logic Module	YEL	Yellow			
	E6 — YEL - 126"						
	E6 — PNK- 126"						
	E6 — WHT- 126"						
	E6 — BRN- 126"						



Modulating Economizer w/ Enthalpy Sensor Model# AEM03FB0B	
Int'l Comfort Products 651 Heil-Quaker Blvd P.O. Box 128 Lewisburg, TN 37091 Phone (931) 359-3511 Fax (931) 270-4199	Date: April 18, 2006
	Supercedes: 03-28-06
	Drawn by:
	Unit # 45-424-08B
	Diagram# 4542408BW

HARNESS DETAIL		COMPONENT CODE	WIRE COLOR CODE		Revision	Change	Date
<b>E# = WIRE END DESIGNATION</b>							
E3	Female ¼ Quick Disc.	C7150B	BLK	Black			
E6	Wire Nut	C7650A	BRN	Brown			
		M7415A	GRY	Gray			
		PL1	PNK	Pink			
		PL2	VIO	Violet			
		W7459A	YEL	Yellow			
E3	GRY - 61"		BLU	Blue			
E3	GRY - 61"		GRN	Green			
E6	GRN - 126"		ORG	Orange			
E6	RED - 126"		RED	Red			
E6	BLU - 126"		WHT	White			
E6	ORG - 126"						
E6	YEL - 126"						
E6	PNK - 126"						
E6	WHT - 126"						
E6	BRN - 126"						



### Modulating Economizer w/ Dry Bulb Sensor Model# AEP03FB0B

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