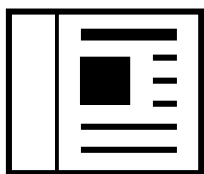




Rooftop Systems Inc.

**Product
Installation Instructions
&
Wiring Diagrams
for
International Comfort Products**



Click Icon for a
Directory of Products

Version 1.10

Creating a Windows Shortcut for Rooftop Systems Inc. Electronic Catalog

To create a **shortcut** (icon) to place the Windows screen follow the instructions below:

1. From the main Windows screen click on the right mouse button.
2. From the selection list click on [<New>](#).
3. Now click on [<Shortcut>](#) from the list that is displayed.
4. When the **Create Shortcut** box appears, type in the drive and directory where the RSI Catalog is filed (example: c:\RSI) or click on the [<Browse>](#) button to locate the directory and file. Select the **rsi.pdf** file. Click [<Next>](#) when the file is located.
5. When the **Select a Title** box appears, type in **“RSI Catalog”** and click on [<Finish>](#).
6. A new icon will appear on the Windows screen. This will be a direct link to the RSI catalog.

This Roof Curb is built to NRCA specifications and is constructed of 18 gauge galvanized steel with a full perimeter 1" X 4" wood nailer strip. Curb height is determined by the part number as listed below.

ACL02/01FB0A	=	8 inches high.
ACM02/01FB0A	=	14 inches high.
ACH02/01FB0A	=	24 inches high.

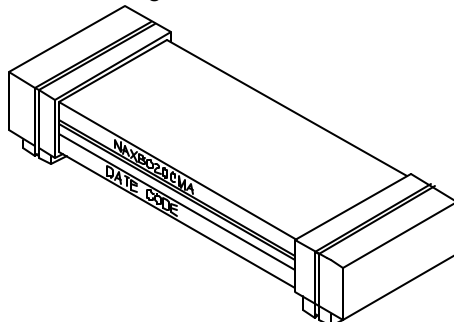


Figure 1

STEP 1:

Check for the correct number of parts. See list below.

		A**01FB0A	A**02FB02
1.	2 ea. Curb Sides - (A)	42 $\frac{1}{2}$ "	44 $\frac{3}{4}$ "
2.	2 ea. Curb Sides - (B)	45 $\frac{3}{4}$ "	45 $\frac{3}{4}$ "
3.	1 ea. Duct Support - (C)	20"	22"
4.	2 ea. Insulated Pans - (D)	39 $\frac{1}{4}$ "	41 $\frac{1}{2}$ "
5.	2 ea. Gasket $\frac{3}{4}$ " x $1\frac{1}{4}$ " x 14' (28 ft. total)		
6.	1 ea. Hardware Package includes:		
	10 ea. Hex Washer Screws #10 X $\frac{1}{2}$ "		
	4 ea. "Hinge" Pins $\frac{3}{16}$ " X $7\frac{1}{2}$ " (8 inch high)		
		13 $\frac{1}{2}$ " (14 inch high)	
		23 $\frac{1}{2}$ " (24 inch high)	

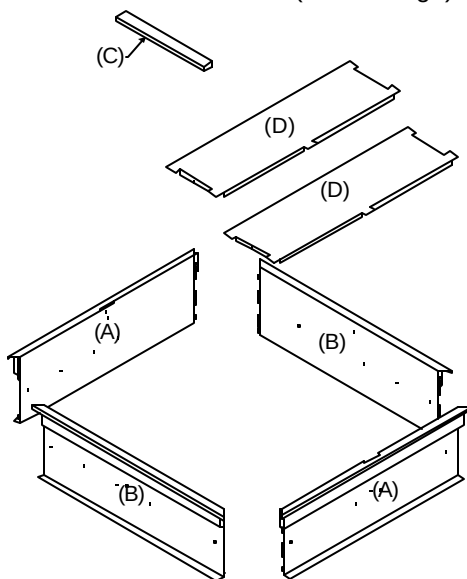


Figure 2

STEP 2:

Layout the curb pieces before assembly to insure that all the necessary pieces are included.

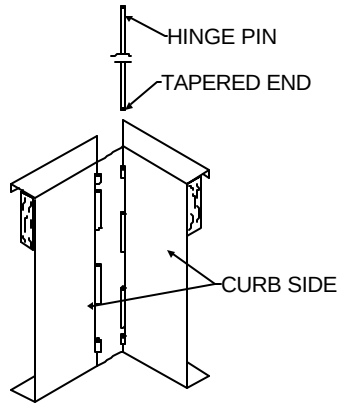


Figure 3

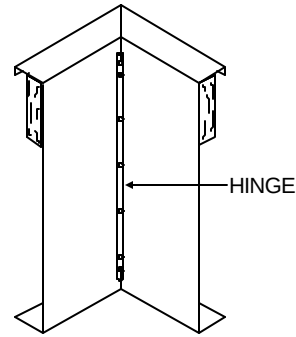


Figure 4

STEP 3:

Corner Assembly: Align each curb side as shown in (Figure 3). Using a hammer, drive the curb “hinge” pin down until the top of the pin is below the top of the curb (Figure 4).

MODEL#	A
A**01FB0A	62 ½
A**02FB0A	64

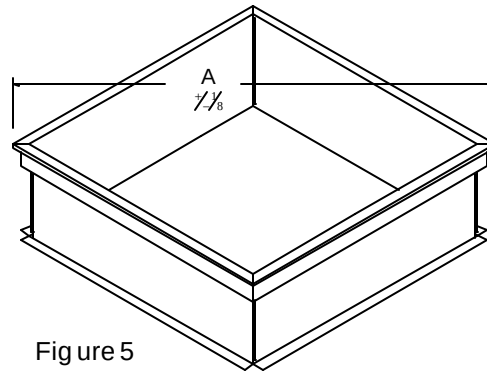
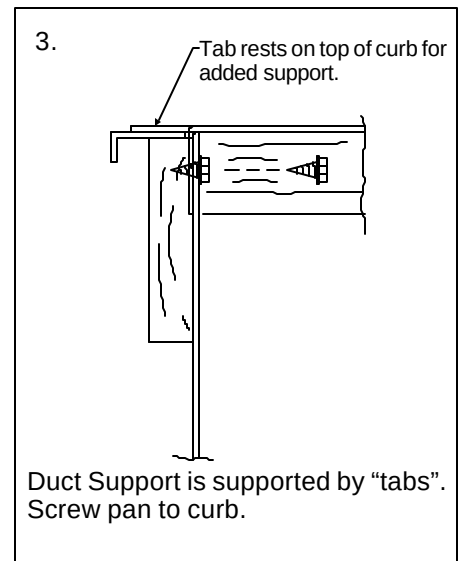
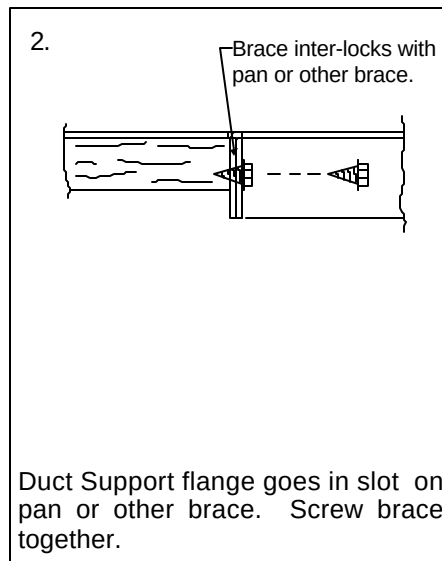
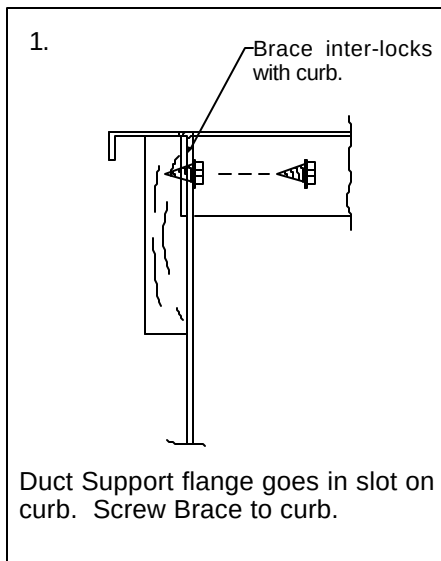


Figure 5

STEP 4:

After the four corners are assembled; the curb should be checked to be sure it is in “square”. Do this by measuring diagonally from each opposite corner. The two measurements should be the same for each direction.

DETAILS



The A**02FB0A / A**01FB0A can now have the duct support and the insulated pans installed, unless a transition (ACT02FB0A / ACT01FB0A) is to be installed. If this is the case follow transition instruction from this point.

STEP 5:

Install the insulated pans (D) on the curb as shown with the roof opening over the desired duct location. See "DETAILS #3"

STEP 6:

Place the duct support (C) on the curb and the pan, making sure that it is in the right location. See "DETAILS #1 and #2"

STEP 7:

If the curb is being assembled & moved to another location, attach the brace & pans to the curb as shown in the "DETAILS".

STEP 8:

Place the $\frac{3}{4}$ " X $1\frac{1}{4}$ " gasket on the top edges of the curb, duct support & pan.

TOP VIEW

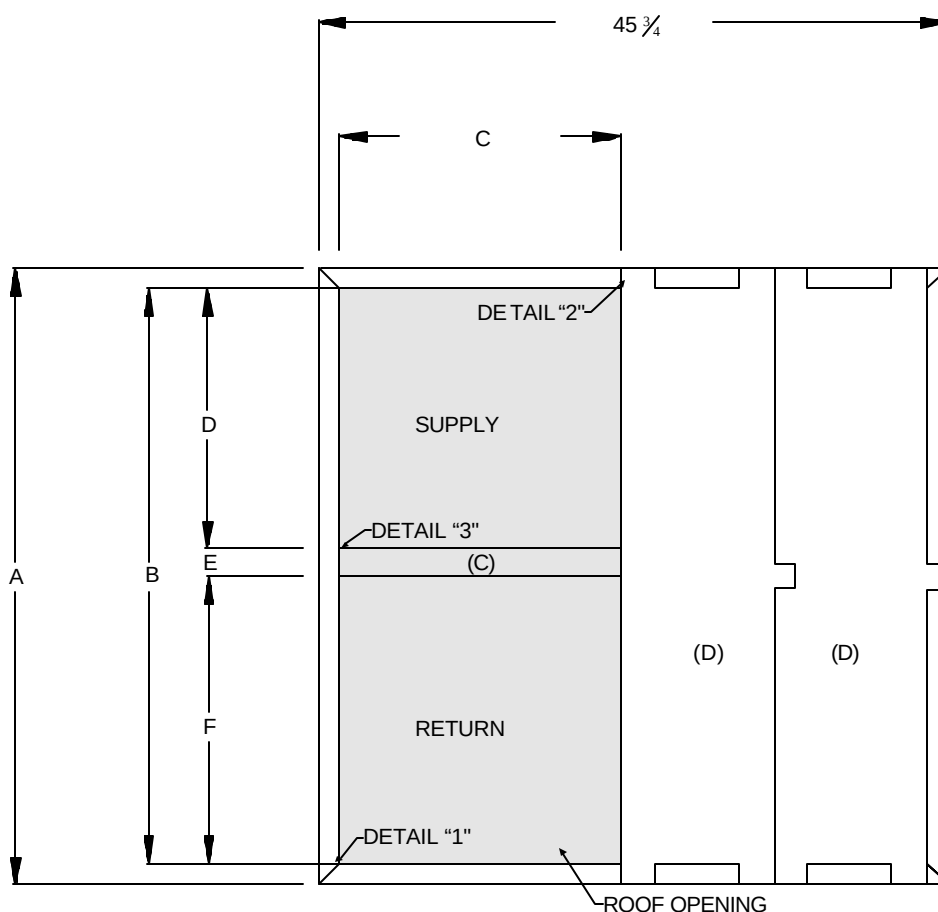
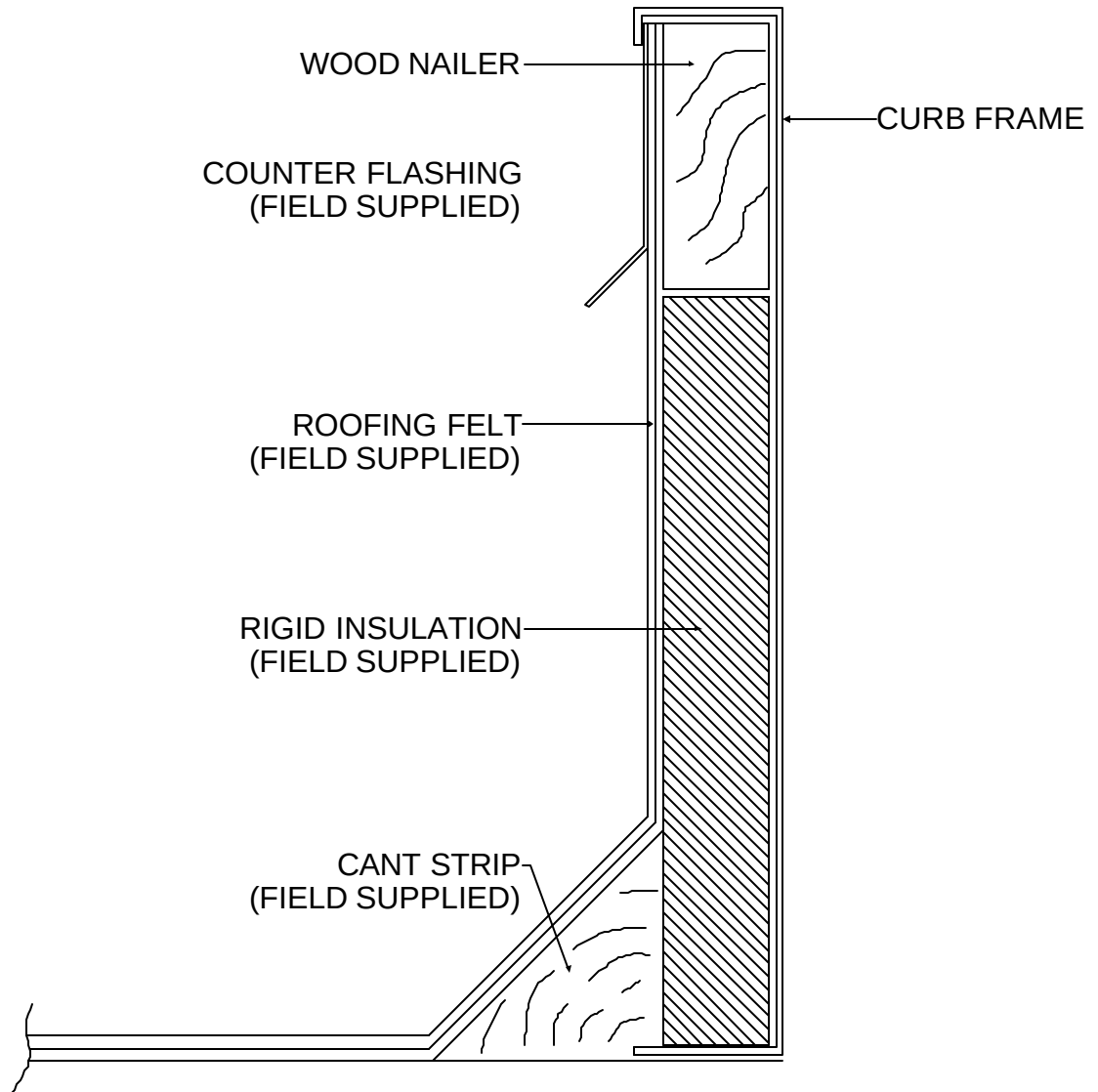


Figure 6

MODEL#	A	B	C	D	E	F	ROOF OPENING
ACT01FB0A	$42\frac{1}{2}$	$39\frac{1}{2}$	20	16	2	$21\frac{1}{2}$	$22 \times 39\frac{1}{2}$
ACT02FB0A	$44\frac{3}{4}$	$41\frac{3}{4}$	22	$18\frac{7}{8}$	2	$20\frac{7}{8}$	$22 \times 41\frac{3}{4}$

**ROOFING
INSTRUCTIONS**



INTERNATIONAL COMFORT PRODUCTS

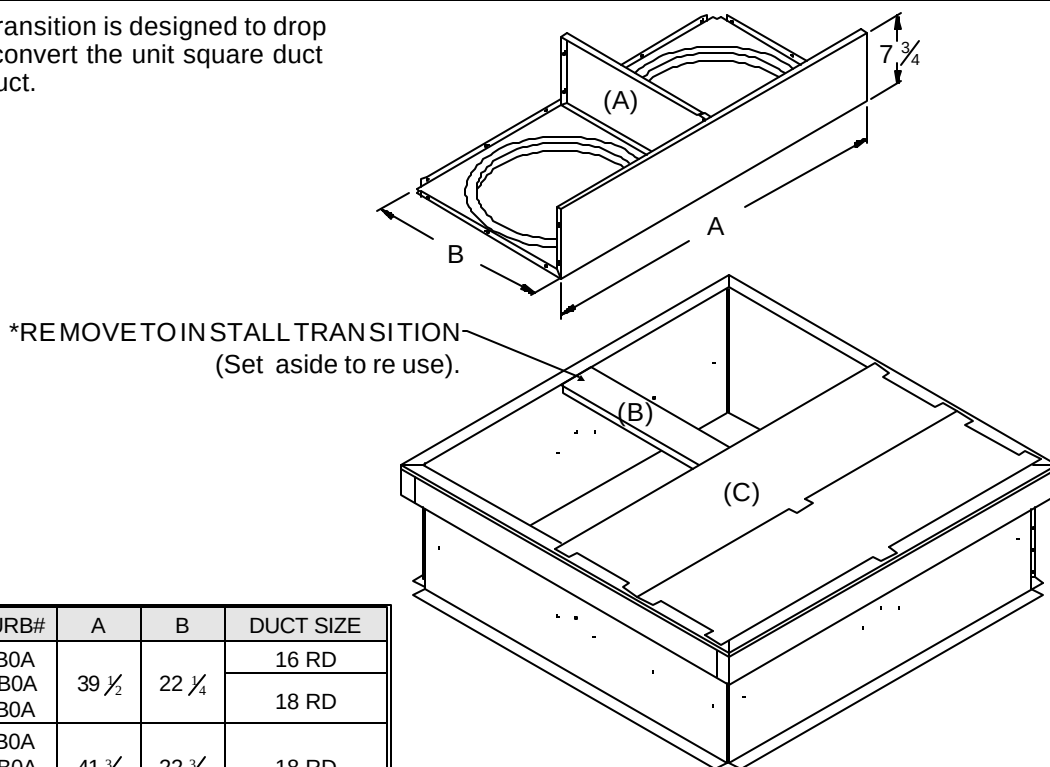
651 HEIL-QUAKER AVE
POST OFFICE BOX 128
LEWISBURG, TENNESSEE
37091
PHONE (931) 359-3511
FAX (931) 270-4199

INSTALLATION INSTRUCTIONS

MODEL ACT02FB0A / ACT01FB0A / ACT11FB0A

CONCENTRIC CURB TRANSITION

The Concentric Curb Transition is designed to drop into the roof curb and convert the unit square duct connections to round duct.



TRANSITION#	ROOF CURB#	A	B	DUCT SIZE
ACT01FB0A	ACL01FB0A	39 $\frac{1}{2}$	22 $\frac{1}{4}$	16 RD
ACT11FB0A	ACM01FB0A			18 RD
	ACH01FB0A			
ACT02FB0A	ACL02FB0A	41 $\frac{3}{4}$	22 $\frac{1}{4}$	18 RD
	ACM02FB0A			
	ACH02FB0A			

STEP 1:

Check for correct number of parts. See list below.

- 1 ea. Transition Section **(A)**
- 25 ea. #10-16 X $\frac{1}{2}$ " Hex Tec Screws

STEP 2:

Remove duct support (B)* see note above and set it aside.

STEP 3:

Lift out (C) insulated pan and sit it aside to reuse.

STEP 4:

Attach duct to transition duct connections.

STEP 5:

Install transition in supply/return opening in roof curb using #10-16 X $\frac{1}{2}$ " Hex Tec Screws provided, (note: screws attached from inside of transition to curb).

STEP 6:

Reinstall (C) insulated pan, and (B) duct support to original position.

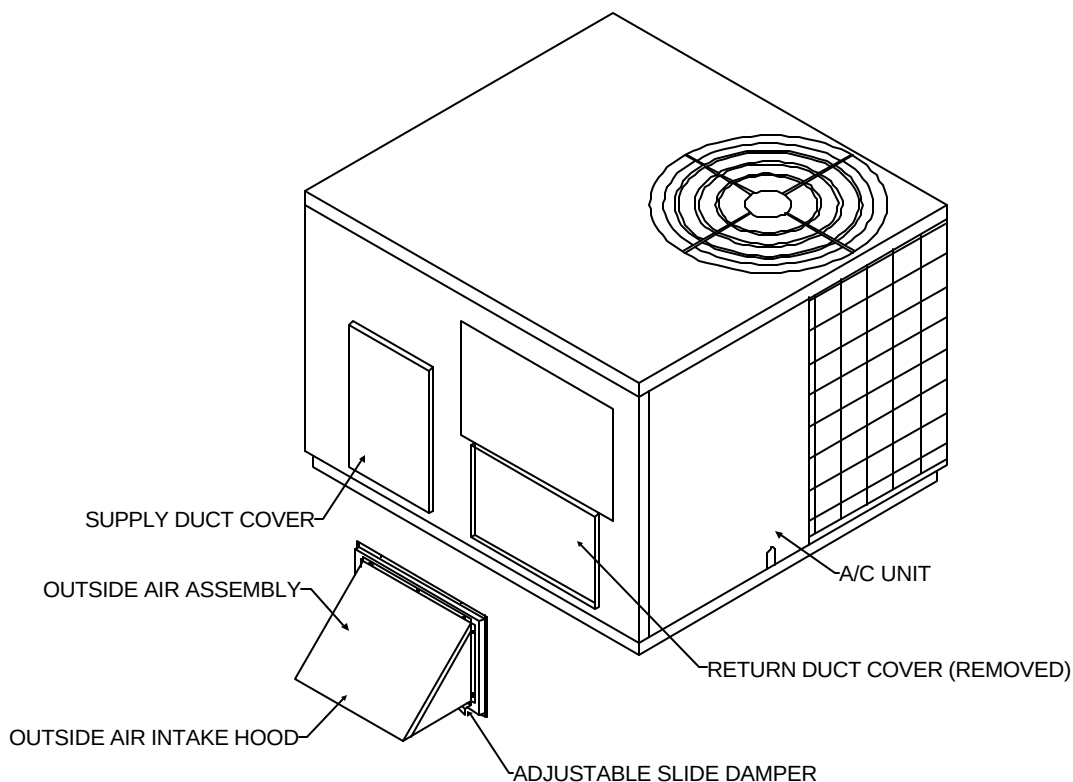
STEP 7:

Place $\frac{3}{4}$ " X $1\frac{1}{4}$ " gasket (included with the curb only) as instructed in roof curb installation sheet.

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The 0-35% manual outside air system is designed to replace the unit duct cover. No drilling on the unit or field assembly is required. The amount of outside air is controlled by simply adjusting the slide damper. The panel is fully insulated.

**STEP 1:**

Check for correct number of parts. See list below:

- 1 ea. - Outside Air Intake panel assembly with hood and slide damper.
- 6 ea. - #10-16 x ½" self tapping screws.

STEP 2:

Remove return air duct cover from unit.

STEP 3:

Install outside air assembly as shown in Figure 1 over duct opening with the self tapping screws provided.

STEP 4:

Adjust the slide damper to the desired position.

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37091
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FAX (931) 270-4199

The 0-35% manual outside air system is designed to replace the unit duct cover. No drilling on the unit or field assembly is required. A 2-position control motor that opens the intake damper when the blower is energized. The amount of air is controlled by the adjustable slide damper. The intake panel is fully insulated..

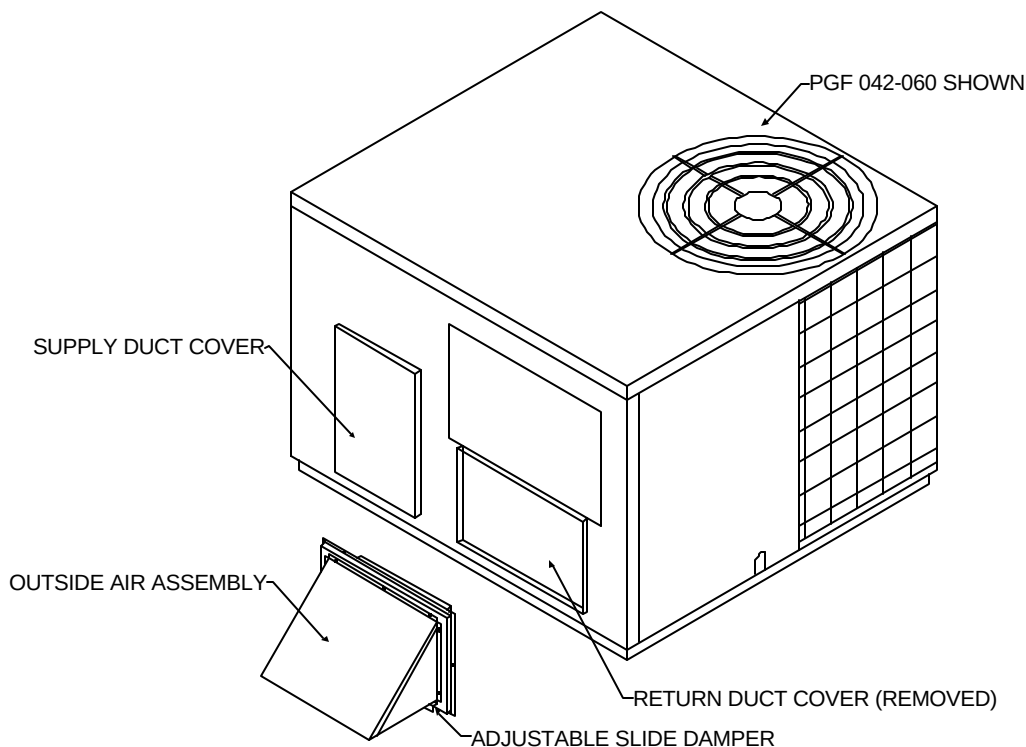


FIGURE 1

STEP 1:

Check for correct number of parts. See list below:

- 1 ea. - Outside Air Intake damper assembly with hood and slide damper.
- 6 ea. - #10-16 x ½" Self tapping screws.

STEP 2:

Remove return air duct cover from unit.

STEP 3:

Remove blower access panel. Route the cable around the panel next to coil, then along division wall around fan over division wall to low voltage. The PGF/PAF/PHF 042-060 will have a plug behind coil.

STEP 4:

Install outside air assembly as shown in Figure 1 over duct opening with the self tapping screws provided.

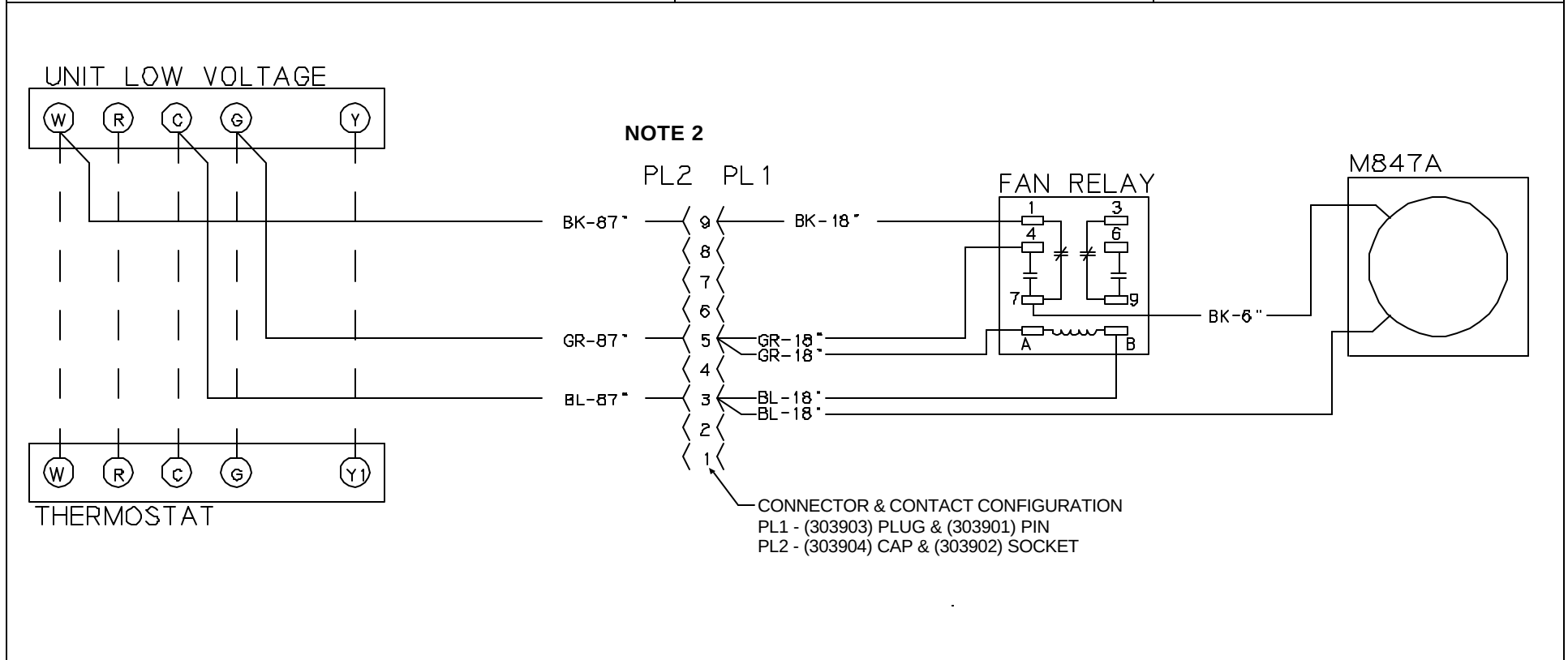
STEP 5:

Adjust the slide damper to the desired position.

INTERNATIONAL COMFORT PRODUCTS

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HARNESDETAIL		COMPONENTCODE		WIRE COLOR CODE			
E# = WIRE END DESIGNATION		Economizer					
E2	STUD #6 18 Ga. Wire	PL1	Economizer Plug (Male)	GR	Green	BL	Blue
E3	Female 3/4 Quick Disc.	PL2	Economizer Plug (Female)	BK	Black		
E4	Male 3/4 Quick Disc. Insul	M847A	Damper Actuator 24v				
E6	Wire Nut						



Notes: - Unit wir ing shown as ref er ence only. Check unit wir ing for ac tual unit wir ing. - The PL2 harness will be used on PGF/PAF/PHF 018-036 units.		0-35% Mo tor ized Out side Air Model# AFM01FB0A / AFM02FB0A	
		INT'L COMFORT PRODUCTS 651 HEIL-QUAKER AVE POST OFFICE BOX 128 LEWISBURG, TENNESSEE 37091 PHONE (931) 359-3511 FAX (931) 270-4199	Date: July 17, 1998
			Drawn by:
			Unit# 45-287-08
			Diagram# 28708W

AEM01FB0A/AEP01FB0A Economizers are used with PGF/PAF/PHF 018-036 units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Economizer Base
- 1 - Economizer Snout
- 1 - Wire Harness
- 1 - Wiring Diagram Sticker
- 4 - #10 - 16 x ½ Hex Screws (Self-tapping)

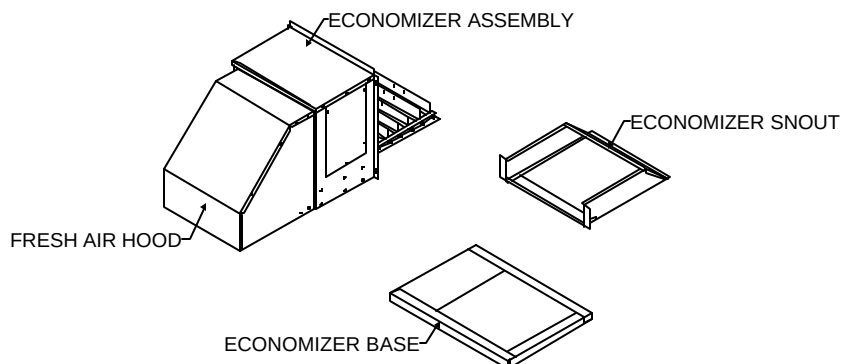


Figure 1

STEP 2:

Remove discharge air sensor and wire harness from Economizer.

STEP 3:

Disconnect all power to unit.

STEP 4:

Remove the return air access panel and return air duct cover. (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.

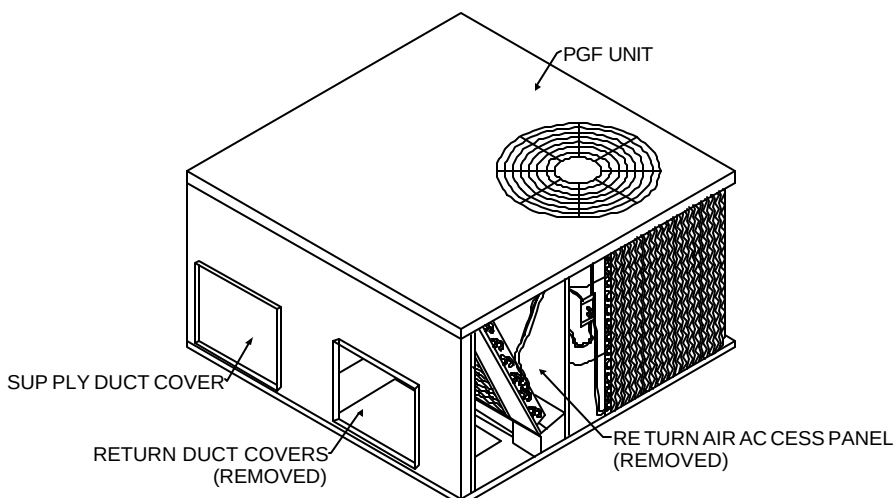


Figure 2

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 discharge sensor in blower section of the unit. Drill a hole in the divider wall and mount the sensor as shown in Figure 3.

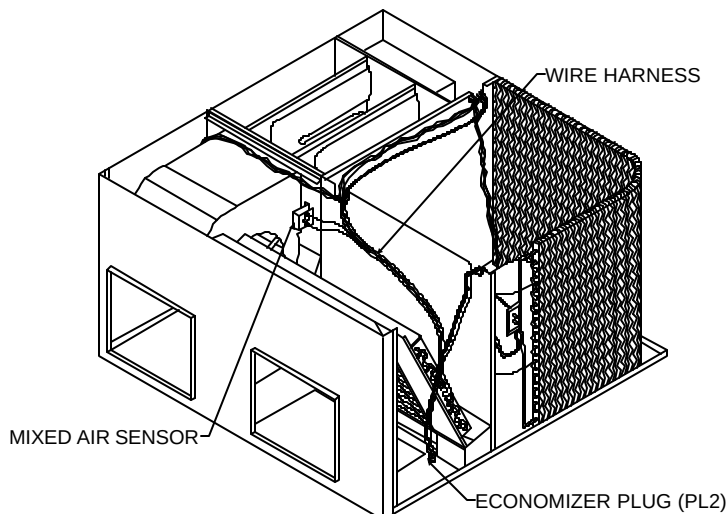


Figure 3

STEP 9:

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

STEP 10:

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

STEP 11:

Insert Economizer Snout through return access panel and place over bottom return opening as shown in Figure 5.

STEP 12:

Then slide economizer assembly through horizontal return duct opening, letting it rest on the Economizer Base. Then using the self-tapping screws provided to secure to face of unit.

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.

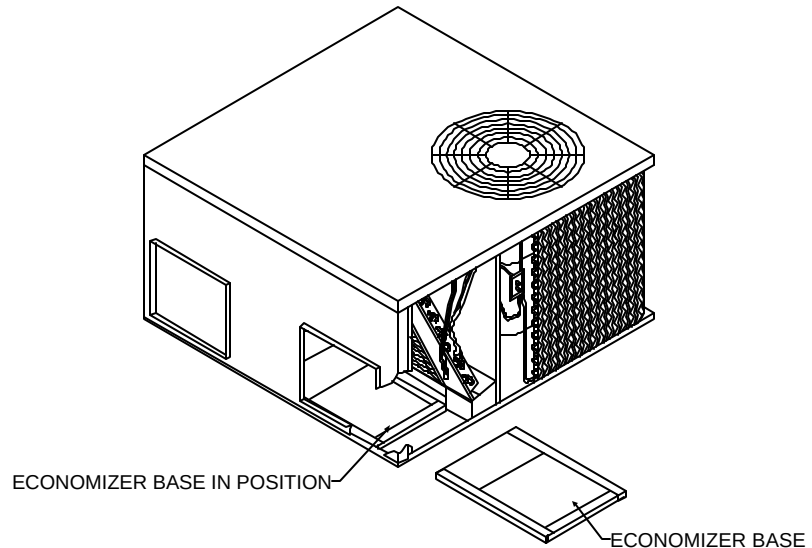


Figure 4

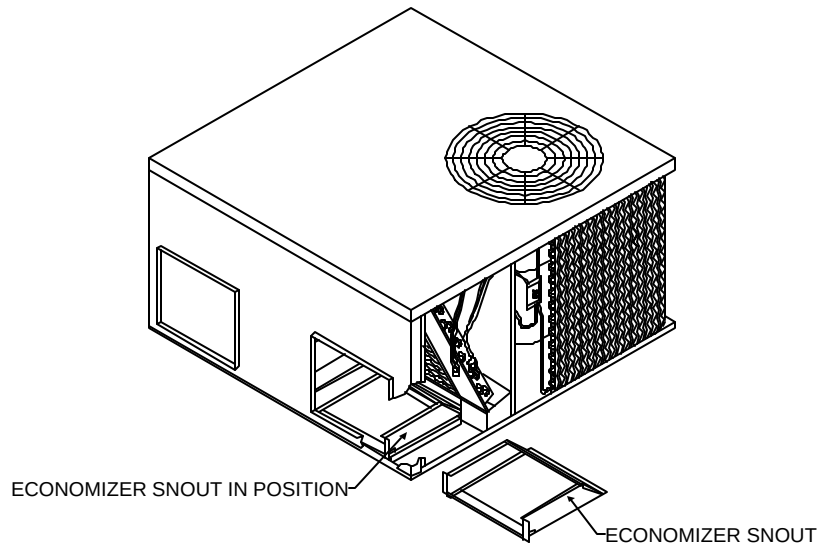


Figure 5

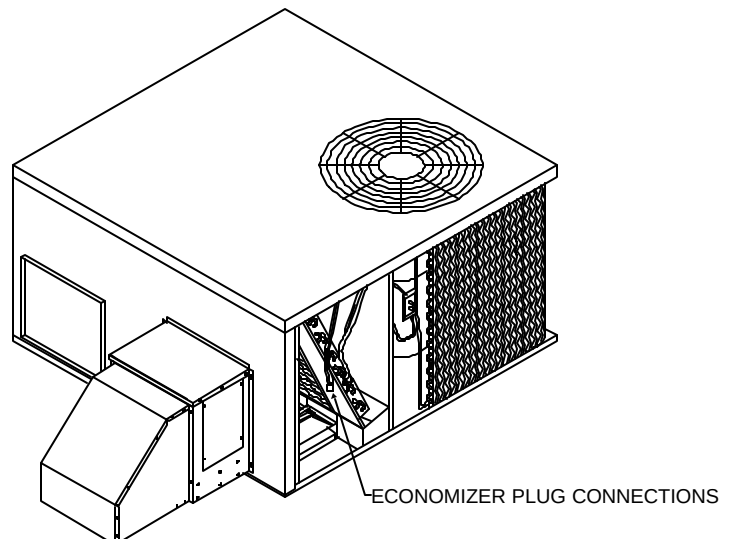
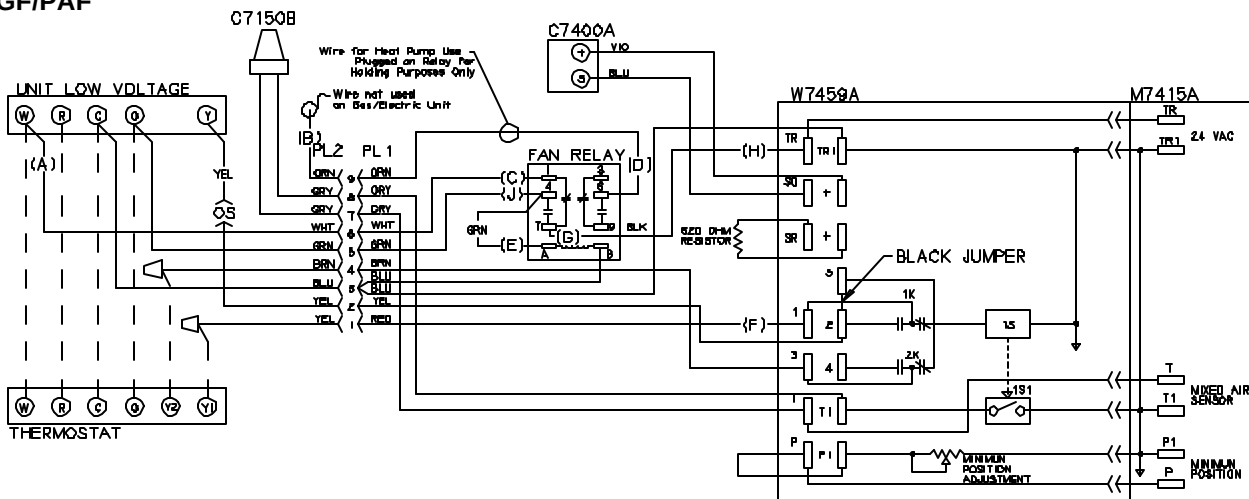


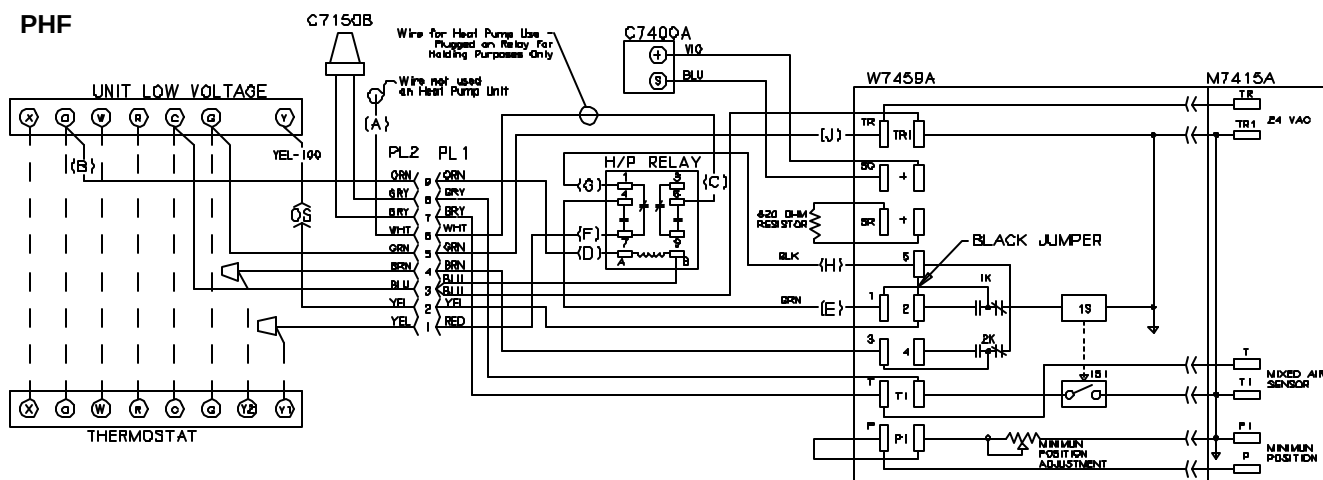
Figure 6

AEM01FB0A MODULATING ECONOMIZER

PGF/PAF



PHF



Steps to rewire PGF/PAF to a PHF

STEPS	WIRE NAME	WIRE COLOR	PGF/PAF LOCATION	PHF LOCATION
1	A	WHT - WHITE	"W" - UNIT LOW VOLT AGE	TAPED - NOT USED
2	B	ORN - OR ANGE	TAPED - NOT USED	"O" - UNIT LOW VOLT AGE
3	C	WHT - WHITE	"1" - FAN RE LAY	"6" - HEAT PUMP RE LAY
4	D	ORN - OR ANGE	"6" - FAN RE LAY	"A" - HEAT PUMP RE LAY
5	E	GRN - GREEN	"A" - FAN RE LAY	"1" - W7459 - LOGIC MOD ULE
6	F	RED - RED	"1" - W7459 - LOGIC MODULE	"7" - HEAT PUMP RE LAY
7	G	BLK - BLACK	"7" - FAN RE LAY	"1" - HEAT PUMP RE LAY
8	H	BLK - BLACK	"TR" W7459 - LOGIC MODULE	"5" - W7459 - LOGIC MOD ULE
9	J	GRN - GREEN	"4" - FAN RE LAY	"TR" - W7459 - LOGIC MOD ULE

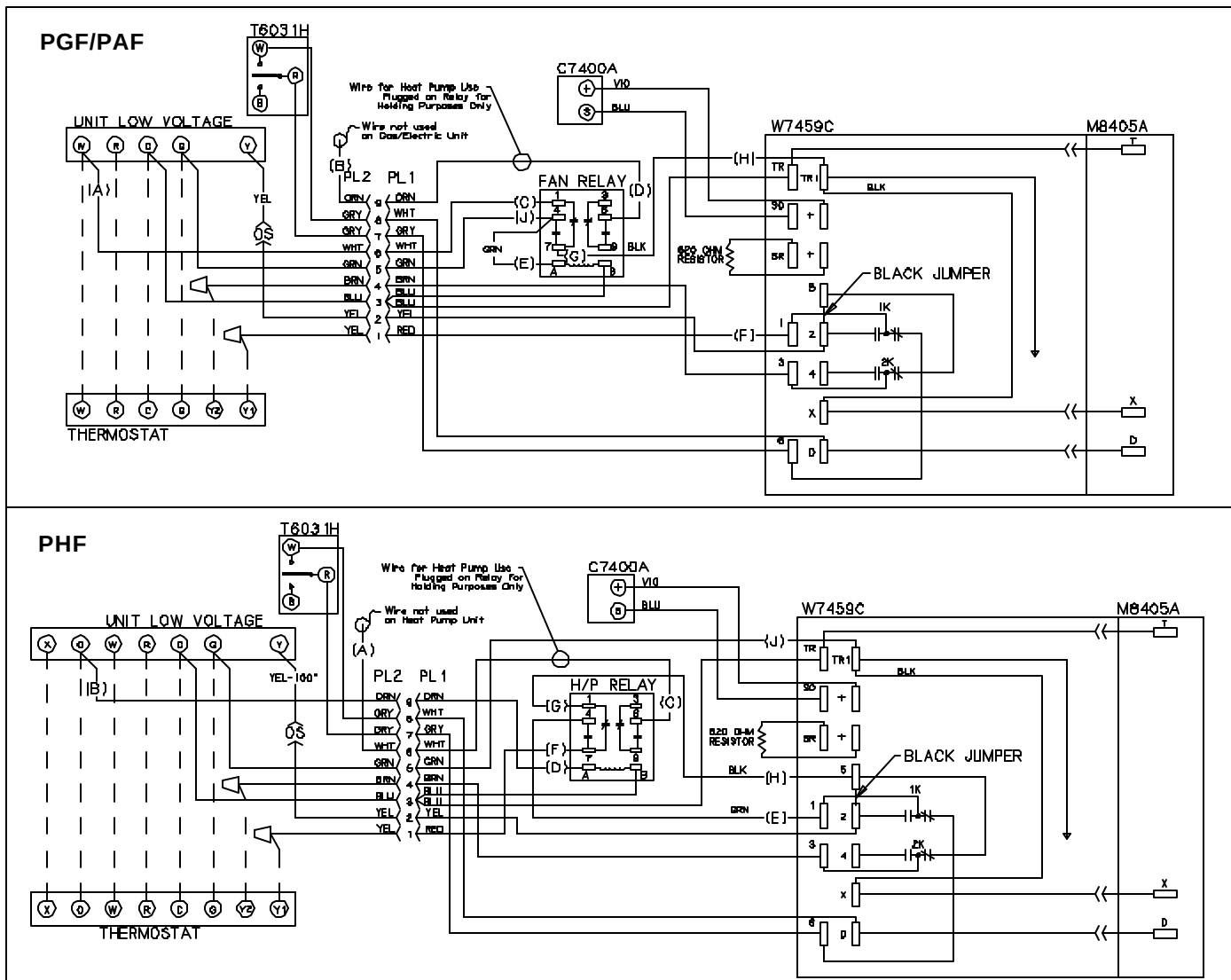
COMPONENT CODE

C7400 Fresh Air Sensor
PL1/PL2 Economizer Plug (Male/Female)
M7415A Damper Actuator 24v
W7459A Logic Module
C7150B Mixed Air Sensor

Notes:

1. Connect mixed air sensor red to "T" and white to "T1".
2. Unit wiring shown as reference only. Check unit wiring for actual unit wiring.
3. Relays 1K and 2K activate when the Outdoor Air Enthalpy is higher than the Return Air Enthalpy.
4. Factory installed resistor should be removed only if C7400 Differential Enthalpy Sensor is added.
5. Y2 must be energized for the compressor to operate.

AEP01FB0A 3-POSITION ECONOMIZER



Steps to rewire PGF/PAF to a PHF

STEPS	WIRE NAME	WIRE COLOR	PGF/PAF LOCATION	PHF LOCATION
1	A	WHT - WHITE	"W" - UNIT LOW VOLT AGE	TAPED - NOT USED
2	B	ORN - OR ANGE	TAPED - NOT USED	"O" - UNIT LOW VOLT AGE
3	C	WHT - WHITE	"1" - FAN RE LAY	"6" - HEAT PUMP RE LAY
4	D	ORN - OR ANGE	"6" - FAN RE LAY	"A" - HEAT PUMP RE LAY
5	E	GRN - GREEN	"A" - FAN RE LAY	"1" - W7459 -LOGIC MOD ULE
6	F	RED - RED	"1" - W7459 - LOGIC MODULE	"7" - HEAT PUMP RE LAY
7	G	BLK - BLACK	"7" - FAN RE LAY	"1" - HEAT PUMP RE LAY
8	H	BLK - BLACK	"TR1" W7459 - LOGIC MODULE	"5" - W7459 - LOGIC MOD ULE
9	J	GRN - GREEN	"4" - FAN RE LAY	"TR1" - W7459 - LOGIC MOD ULE

COMPONENT CODE

C7400 Fresh Air Sensor
PL1/PL2 Economizer Plug (Male/Female)
M8405A Damper Actuator 24v
W7459C Logic Module
T6031H Mixed Air Sensor

Notes:

- Unit wir ing shown as ref er ence only. Check unit wir ing for ac tual unit wir ing.
- Re lays 1K and 2K ac tu ate when the Out door Air En thalpy is higher than the Re turn Air En thalpy.
- Fac tory in stalled re sis tor should be re moved only if C7400 Dif fer en tial En thalpy Sen sor is added.
- Y2 must be en er gized for the com pres sor to op er ate.

AEM02FB0A/AEP02FB0A Economizers are used with PGF/PAF/PHF 042-060 units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Economizer Base
- 1 - Wire Harness
- 1 - Wiring Diagram Sticker
- 4 - #10 - 16 x ½ Hex Screws (Self-tapping)

STEP 2:

Remove discharge 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 discharge sensor in blower section of the unit. Drill a hole in the divider wall and mount the sensor as shown in Figure 3.

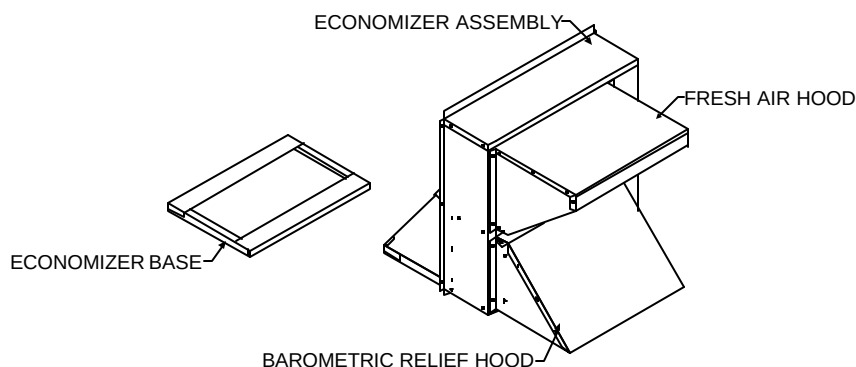


Figure 1

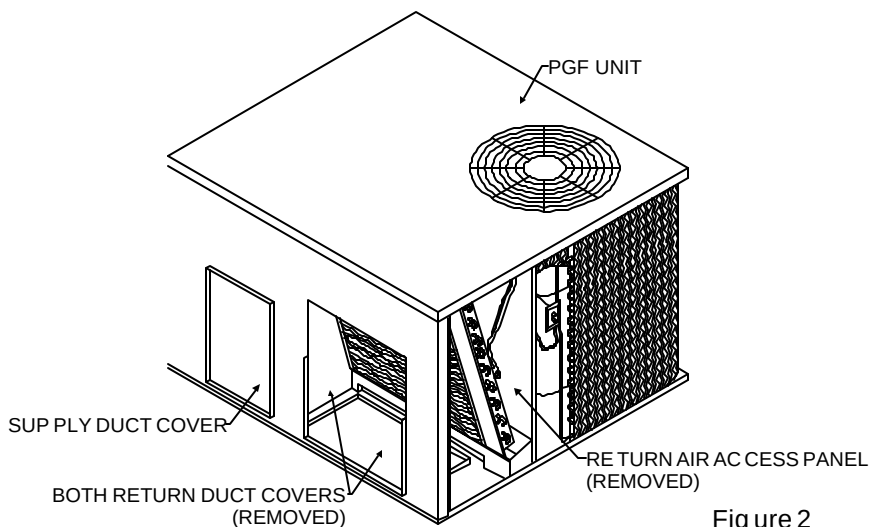


Figure 2

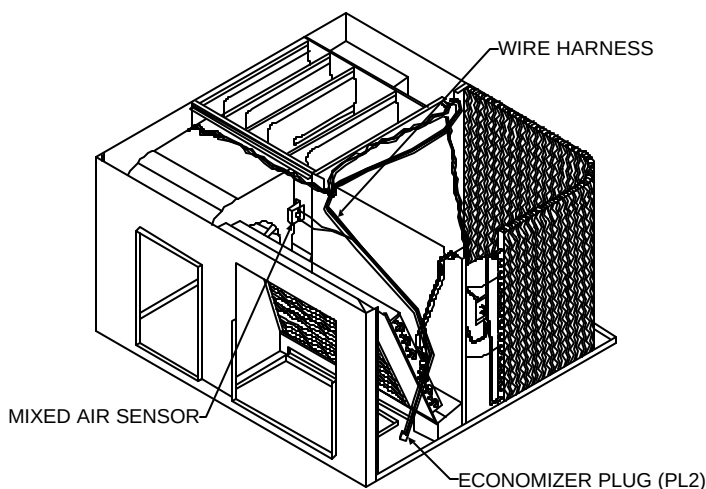


Figure 3

STEP 9:

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

STEP 10:

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

STEP 11:

Then slide economizer assembly through horizontal return duct opening, letting it rest on the Economizer Base. Then using the self-tapping screws provided to secure to face of unit.

STEP 12:

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

STEP 13:

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

STEP 14:

Turn power back on to the unit.

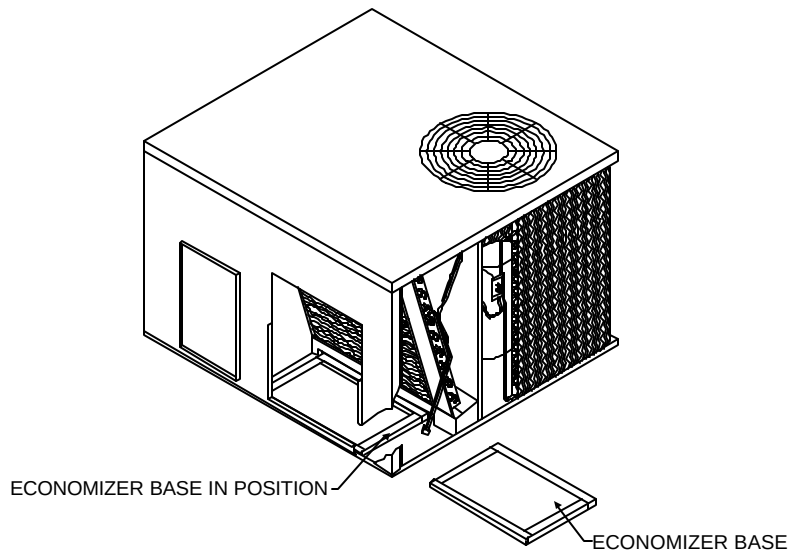


Figure 4

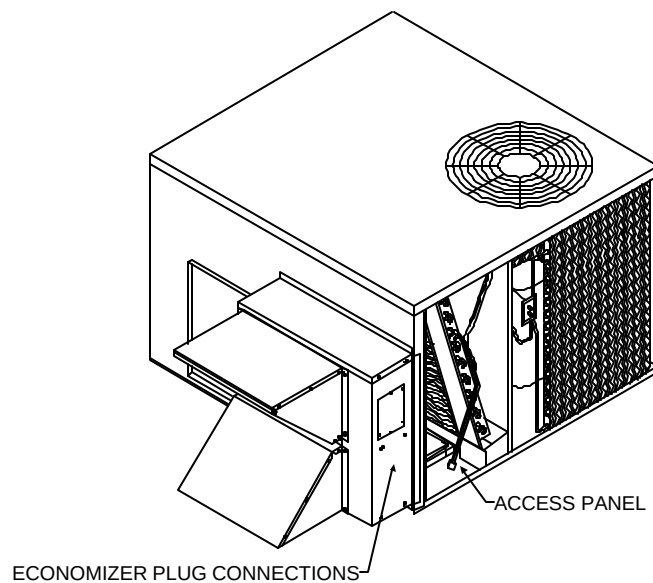
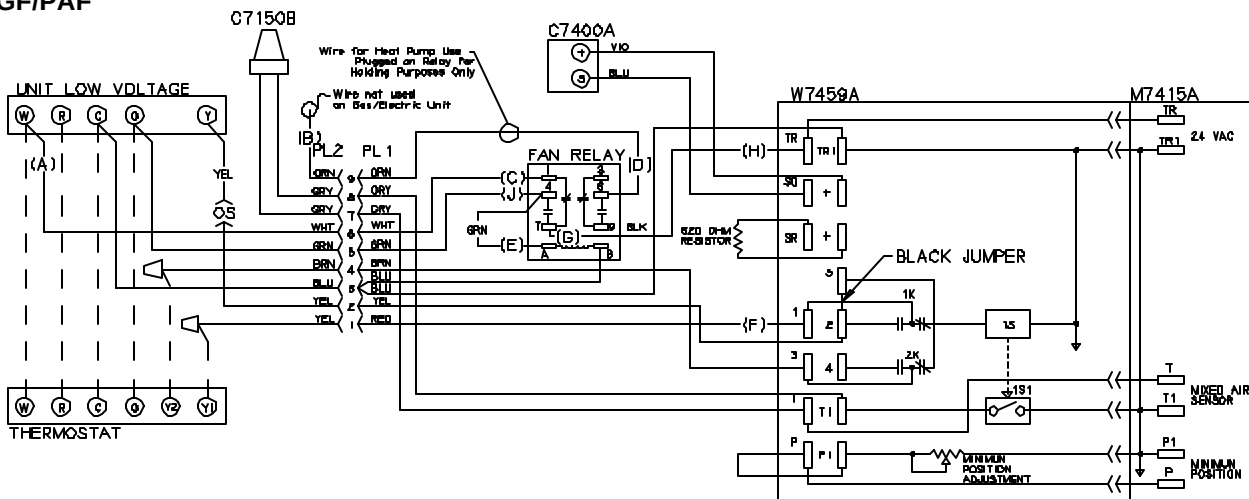


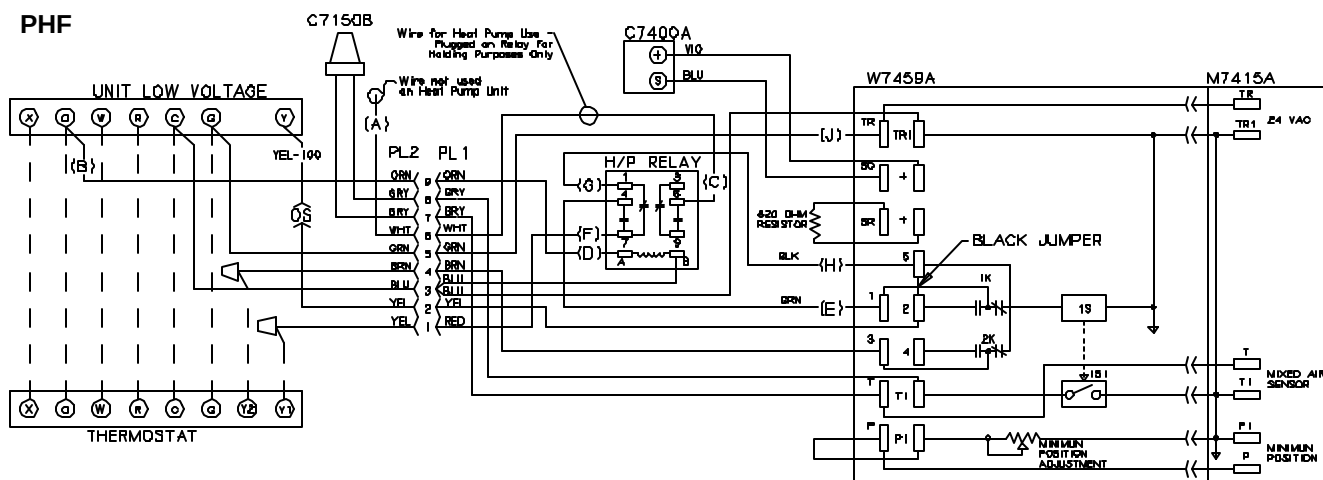
Figure 5

AEM02FB0A MODULATING ECONOMIZER

PGF/PAF



PHF



Steps to rewire PGF/PAF to a PHF

STEPS	WIRE NAME	WIRE COLOR	PGF/PAF LOCATION	PHF LOCATION
1	A	WHT - WHITE	"W" - UNIT LOW VOLT AGE	TAPED - NOT USED
2	B	ORN - OR ANGE	TAPED - NOT USED	"O" - UNIT LOW VOLT AGE
3	C	WHT - WHITE	"1" - FAN RE LAY	"6" - HEAT PUMP RE LAY
4	D	ORN - OR ANGE	"6" - FAN RE LAY	"A" - HEAT PUMP RE LAY
5	E	GRN - GREEN	"A" - FAN RE LAY	"1" - W7459 - LOGIC MOD ULE
6	F	RED - RED	"1" - W7459 - LOGIC MOD ULE	"7" - HEAT PUMP RE LAY
7	G	BLK - BLACK	"7" - FAN RE LAY	"1" - HEAT PUMP RE LAY
8	H	BLK - BLACK	"TR" W7459 - LOGIC MOD ULE	"5" - W7459 - LOGIC MOD ULE
9	J	GRN - GREEN	"4" - FAN RE LAY	"TR" - W7459 - LOGIC MOD ULE

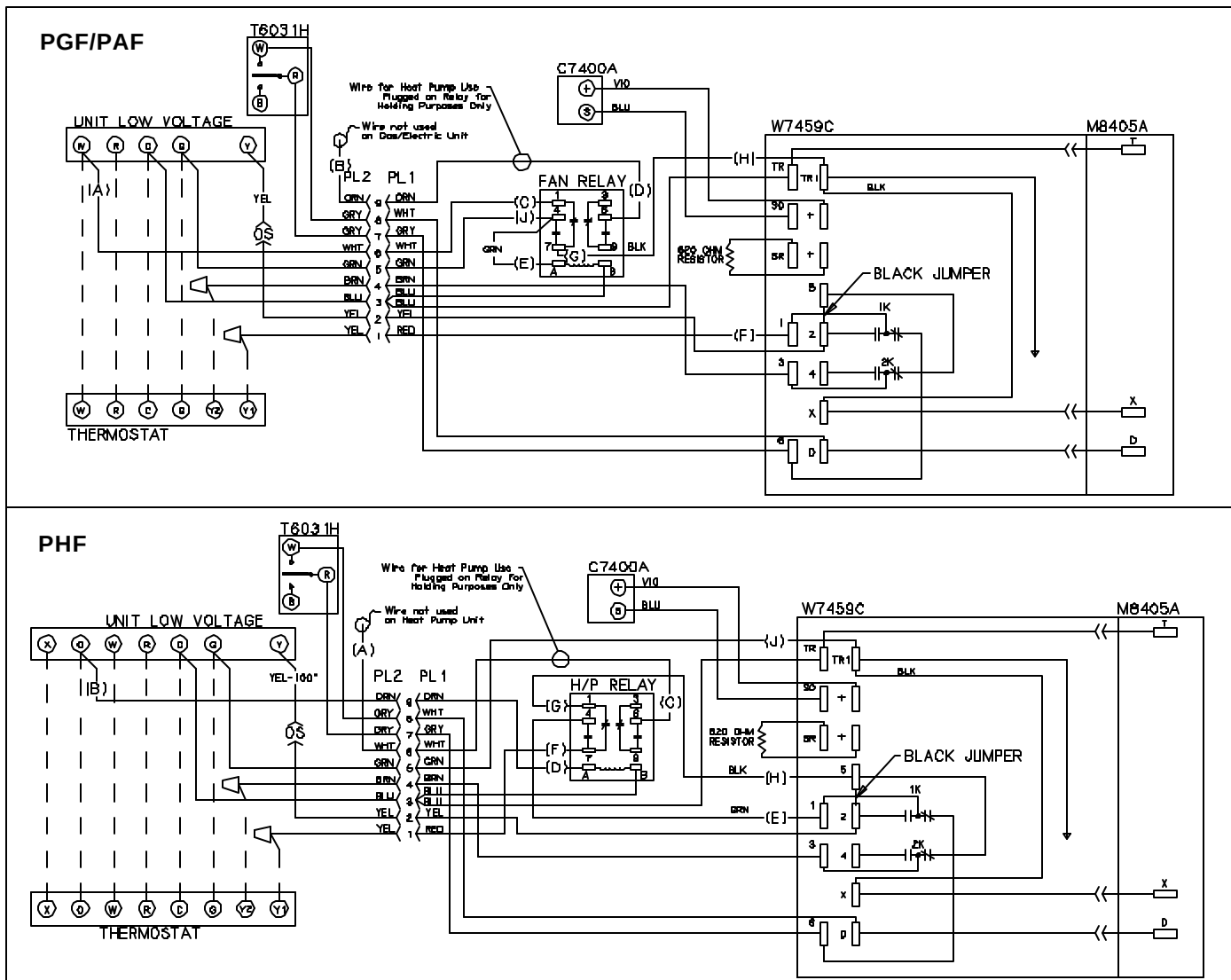
COMPONENT CODE

C7400 Fresh Air Sensor
PL1/PL2 Economizer Plug (Male/Female)
M7415A Damper Actuator 24v
W7459A Logic Module
C7150B Mixed Air Sensor

Notes:

1. Connect mixed air sensor red to "T" and white to "T1".
2. Unit wiring shown as reference only. Check unit wiring for actual unit wiring.
3. Relays 1K and 2K activate when the Outdoor Air Enthalpy is higher than the Return Air Enthalpy.
4. Factory installed resistor should be removed only if C7400 Differential Enthalpy Sensor is added.
5. Y2 must be energized for the compressor to operate.

AEP02FB0A 3-POSITION ECONOMIZER



Steps to rewire PGF/PAF to a PHF

STEPS	WIRE NAME	WIRE COLOR	PGF/PAF LOCATION	PHF LOCATION
1	A	WHT - WHITE	"W" - UNIT LOW VOLT AGE	TAPED - NOT USED
2	B	ORN - ORANGE	TAPED - NOT USED	"O" - UNIT LOW VOLT AGE
3	C	WHT - WHITE	"1" - FAN RE LAY	"6" - HEAT PUMP RE LAY
4	D	ORN - ORANGE	"6" - FAN RE LAY	"A" - HEAT PUMP RE LAY
5	E	GRN - GREEN	"A" - FAN RE LAY	"1" - W7459 -LOGIC MOD ULE
6	F	RED - RED	"1" - W7459 - LOGIC MODULE	"7" - HEAT PUMP RE LAY
7	G	BLK - BLACK	"7" - FAN RE LAY	"1" - HEAT PUMP RE LAY
8	H	BLK - BLACK	"TR1" W7459 - LOGIC MODULE	"5" - W7459 - LOGIC MOD ULE
9	J	GRN - GREEN	"4" - FAN RE LAY	"TR1" - W7459 - LOGIC MOD ULE

COMPONENT CODE

C7400 Fresh Air Sensor
 PL1/PL2 Economizer Plug (Male/Female)
 M8405A Damper Actuator 24v
 W7459C Logic Module
 T6031H Mixed Air Sensor

Notes:

- Unit wiring shown as reference only. Check unit wiring for actual unit wiring.
- Relays 1K and 2K activate when the Outdoor Air Enthalpy is higher than the Return Air Enthalpy.
- Factory in stalled resistor should be removed only if C7400 Differential Enthalpy Sensor is added.
- Y2 must be energized for the compressor to operate.

AEM03FB0A/AEP03FB0A Economizers are used with PGF/PAF/PHF 042-060 units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

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 discharge 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 discharge sensor in blower section of the unit. Drill a hole in the divider wall and mount the sensor as shown in Figure 3.

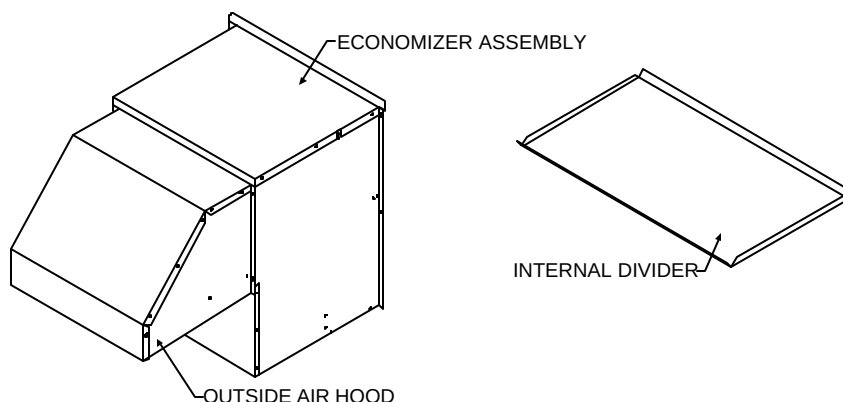


Figure 1

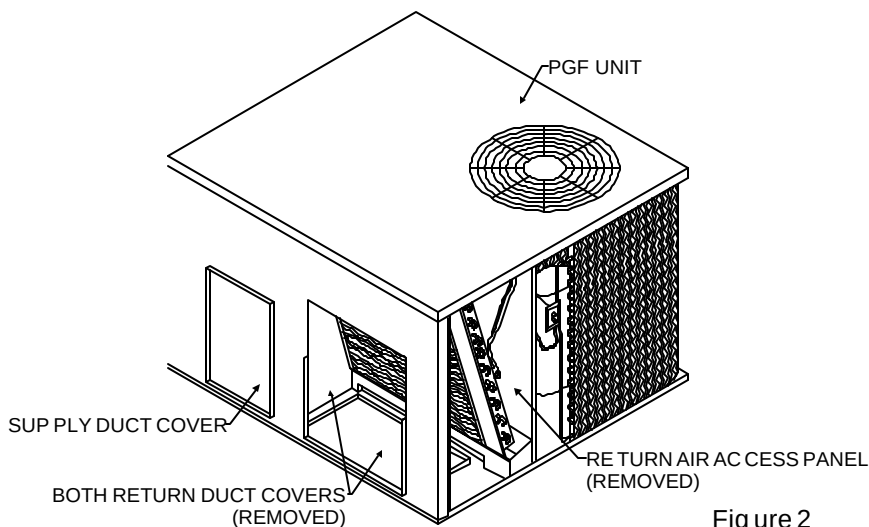


Figure 2

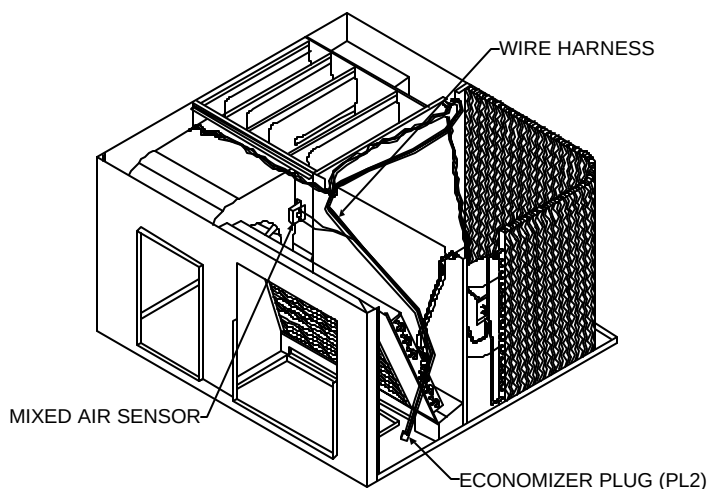


Figure 3

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:

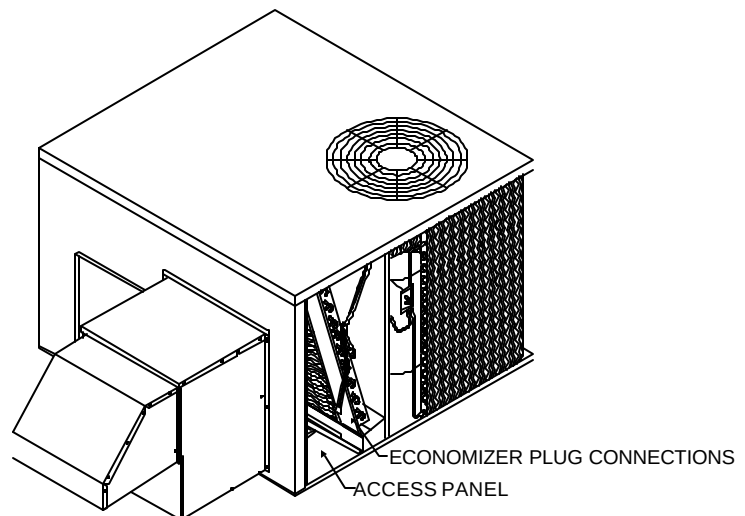
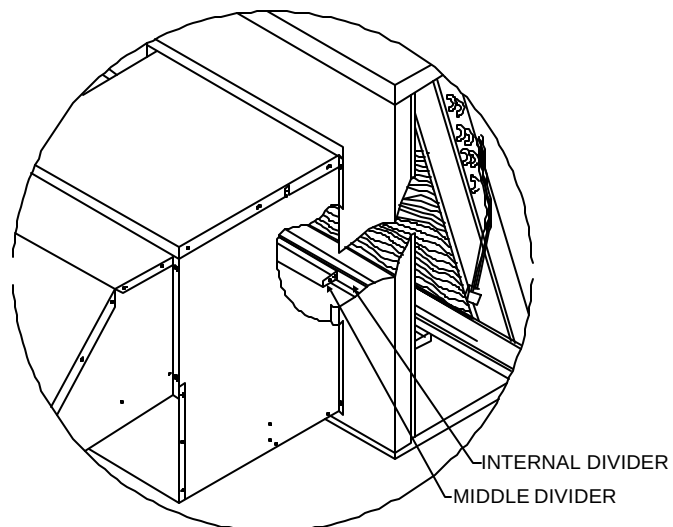
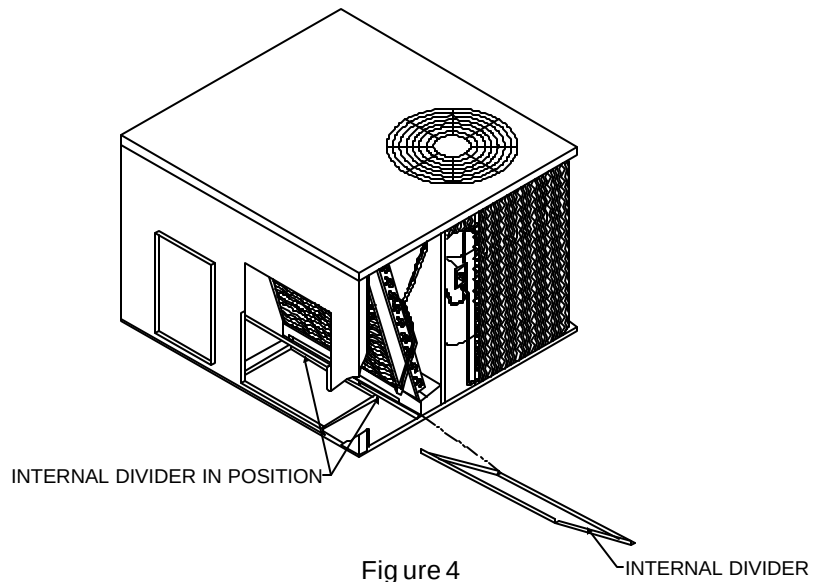
Make the connection of the Economizer plug to the unit Economizer plug. See the enclosed Honeywell® specification data for operation and check out.

STEP 14:

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

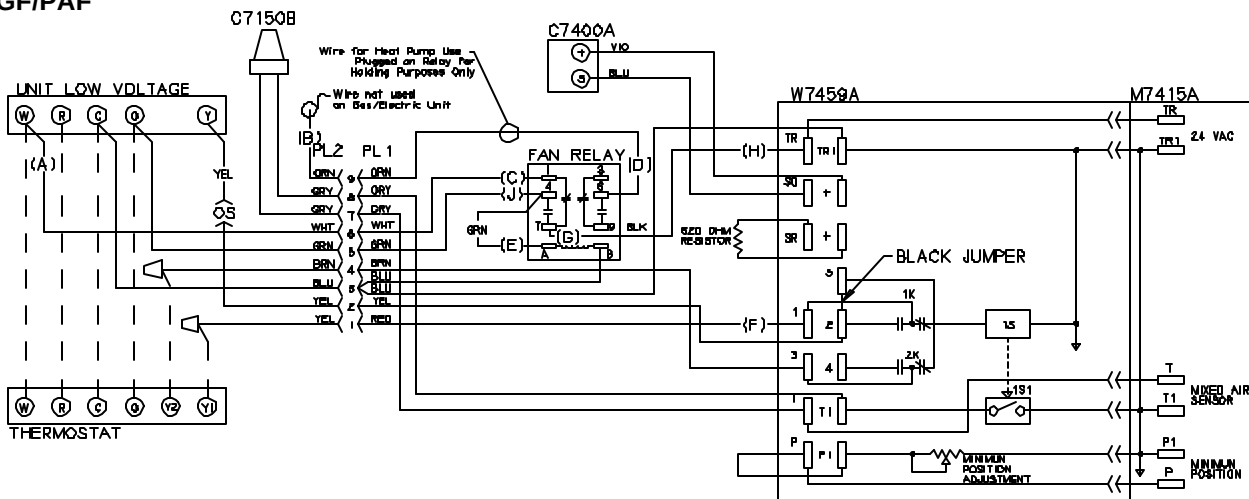
STEP 15:

Turn power back on to the unit.

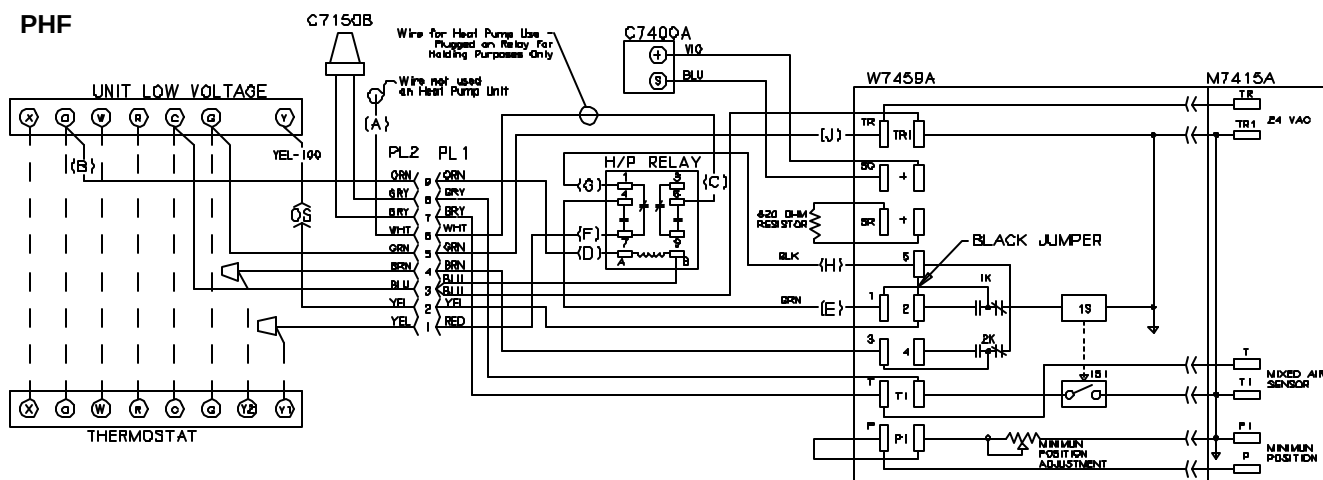


AEM03FB0A MODULATING ECONOMIZER

PGF/PAF



PHF



Steps to rewire PGF/PAF to a PHF

STEPS	WIRE NAME	WIRE COLOR	PGF/PAF LOCATION	PHF LOCATION
1	A	WHT - WHITE	"W" - UNIT LOW VOLT AGE	TAPED - NOT USED
2	B	ORN - OR ANGE	TAPED - NOT USED	"O" - UNIT LOW VOLT AGE
3	C	WHT - WHITE	"1" - FAN RE LAY	"6" - HEAT PUMP RE LAY
4	D	ORN - OR ANGE	"6" - FAN RE LAY	"A" - HEAT PUMP RE LAY
5	E	GRN - GREEN	"A" - FAN RE LAY	"1" - W7459 - LOGIC MOD ULE
6	F	RED - RED	"1" - W7459 - LOGIC MOD ULE	"7" - HEAT PUMP RE LAY
7	G	BLK - BLACK	"7" - FAN RE LAY	"1" - HEAT PUMP RE LAY
8	H	BLK - BLACK	"TR" W7459 - LOGIC MOD ULE	"5" - W7459 - LOGIC MOD ULE
9	J	GRN - GREEN	"4" - FAN RE LAY	"TR" - W7459 - LOGIC MOD ULE

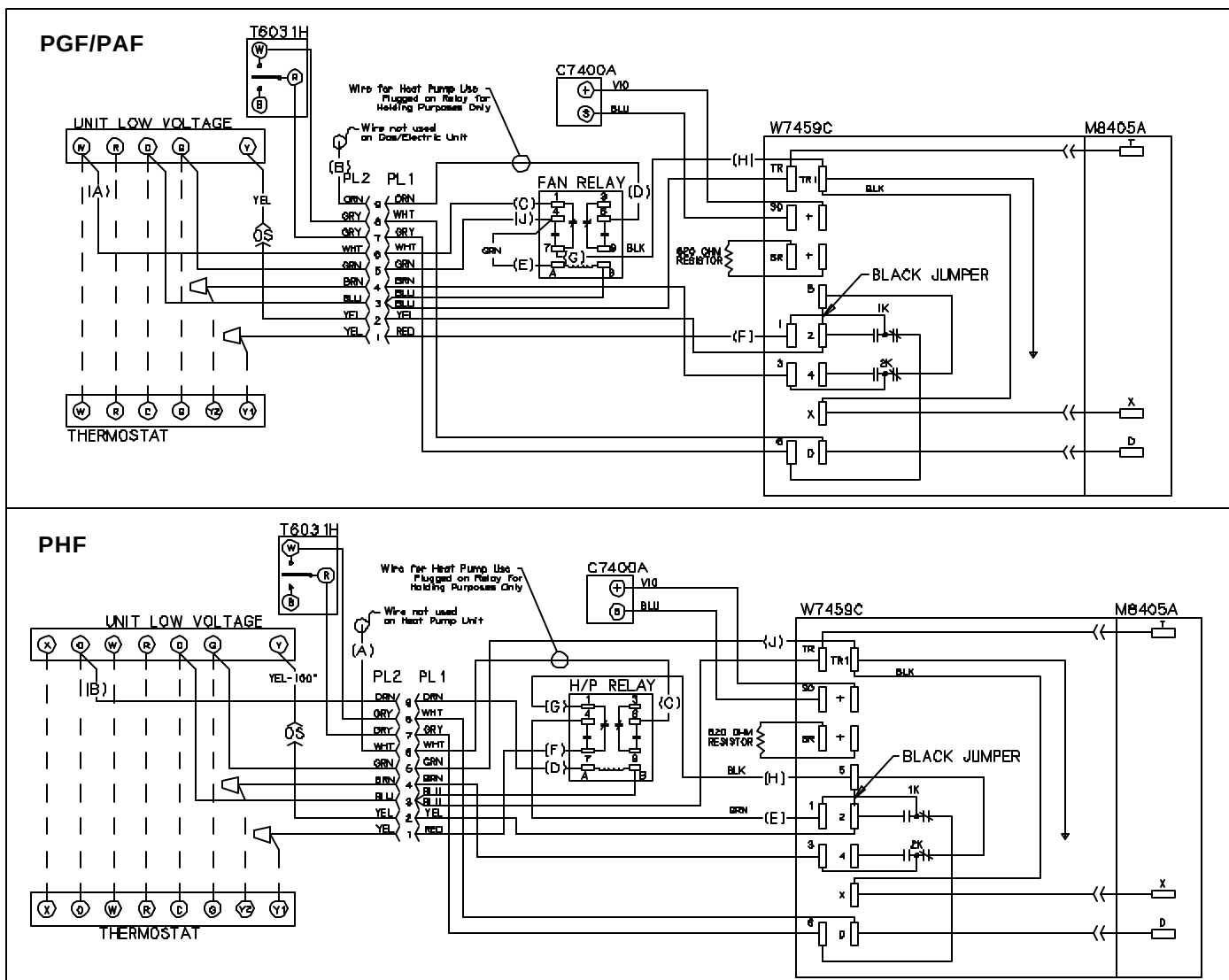
COMPONENT CODE

C7400 Fresh Air Sensor
 PL1/PL2 Economizer Plug (Male/Female)
 M7415A Damper Actuator 24v
 W7459A Logic Module
 C7150B Mixed Air Sensor

Notes:

1. Connect mixed air sensor red to "T" and white to "T1".
2. Unit wiring shown as reference only. Check unit wiring for actual unit wiring.
3. Relays 1K and 2K activate when the Outdoor Air Enthalpy is higher than the Return Air Enthalpy.
4. Factory installed resistor should be removed only if C7400 Differential Enthalpy Sensor is added.
5. Y2 must be energized for the compressor to operate.

AEP03FB0A 3-POSITION ECONOMIZER



Steps to rewire PGF/PAF to a PHF

STEPS	WIRE NAME	WIRE COLOR	PGF/PAF LOCATION	PHF LOCATION
1	A	WHT - WHITE	"W" - UNIT LOW VOLT AGE	TAPED - NOT USED
2	B	ORN - ORANGE	TAPED - NOT USED	"O" - UNIT LOW VOLT AGE
3	C	WHT - WHITE	"1" - FAN RE LAY	"6" - HEAT PUMP RE LAY
4	D	ORN - ORANGE	"6" - FAN RE LAY	"A" - HEAT PUMP RE LAY
5	E	GRN - GREEN	"A" - FAN RE LAY	"1" - W7459 - LOGIC MOD ULE
6	F	RED - RED	"1" - W7459 - LOGIC MODULE	"7" - HEAT PUMP RE LAY
7	G	BLK - BLACK	"7" - FAN RE LAY	"1" - HEAT PUMP RE LAY
8	H	BLK - BLACK	"TR1" W7459 - LOGIC MODULE	"5" - W7459 - LOGIC MOD ULE
9	J	GRN - GREEN	"4" - FAN RE LAY	"TR1" - W7459 - LOGIC MOD ULE

COMPONENT CODE

C7400 Fresh Air Sensor
 PL1/PL2 Economizer Plug (Male/Female)
 M8405A Damper Actuator 24v
 W7459C Logic Module
 T6031H Mixed Air Sensor

Notes:

- Unit wiring shown as reference only. Check unit wiring for actual unit wiring.
- Relays 1K and 2K activate when the Outdoor Air Enthalpy is higher than the Return Air Enthalpy.
- Factory in stalled resistor should be removed only if C7400 Differential Enthalpy Sensor is added.
- Y2 must be energized for the compressor to operate.

INSTALLATION INSTRUCTIONS FOR MODEL AHE01/02FB0A & AHP01/02FB0A HORIZONTAL ECONOMIZER

AHE01/02FB0A & AHP01/02FB0A Economizers are used with PGF/PAF/PHF 018-060 units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Relief Hood
- 1 - Wiring Harness
- 1 - Wiring Diagram Sticker
- 12 - #10 - 16 x ½ Hex Tec Screws

STEP 2:

Remove discharge air sensor and wire harness from Economizer.

STEP 3:

Disconnect all power to unit.

STEP 4:

Remove the return air access panel and return air duct cover. (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 discharge sensor in blower section of the unit. Drill a hole in the divider wall and mount the sensor as shown in Figure 3.

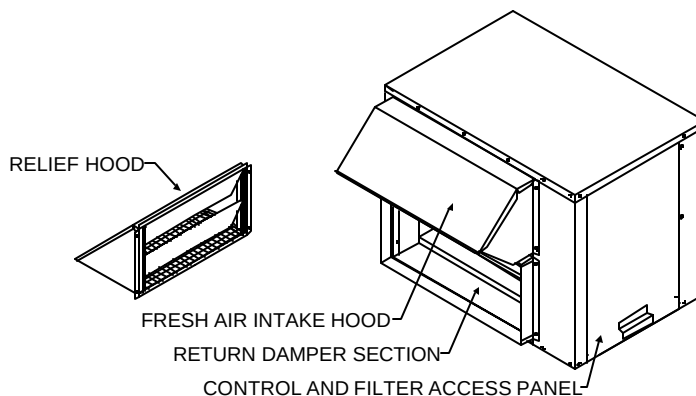


Figure 1

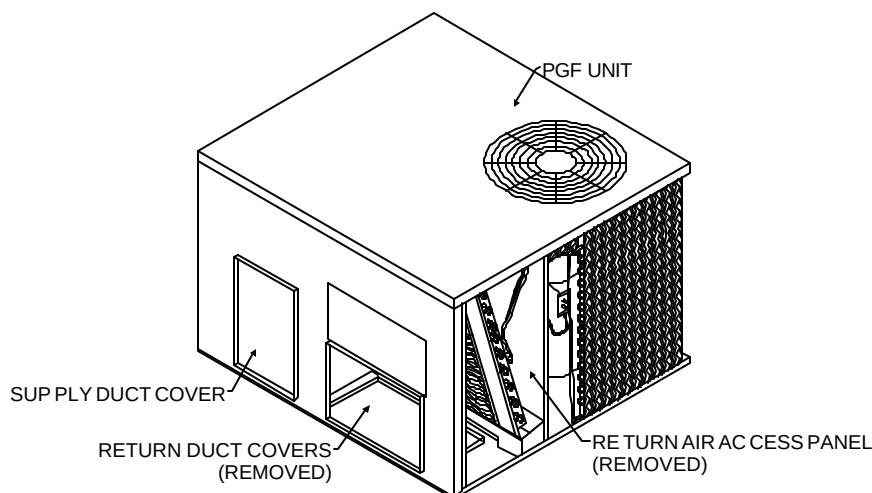


Figure 2

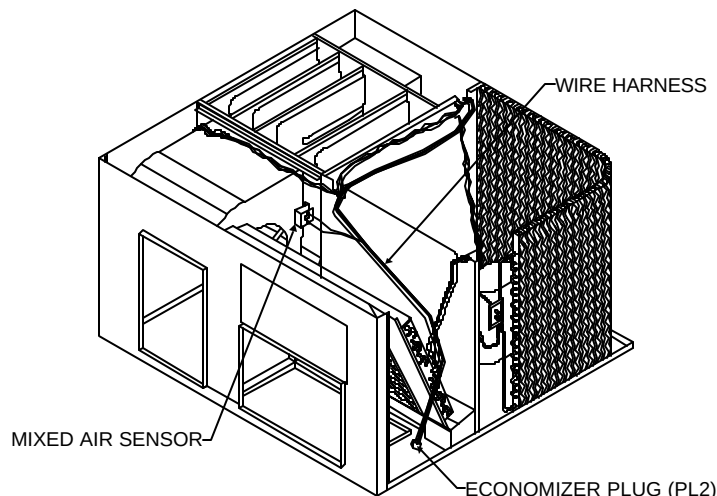


Figure 3

STEP 9:

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

STEP 10:

Remove air filter from Economizer. Secure Economizer to unit using (8) screws as shown in Figure 3. Replace filter then filter access panel.

STEP 11:

Attach and seal weathertight return duct to Economizer

STEP 12:

If the barometric relief is to be installed cut a 19" x 9" hole in the return air duct near Economizer (See Figure 5)

STEP 13:

Secure pressure relief damper near Economizer over hole in return air duct using (4) screws. Refer to Figure 6.

STEP 14:

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

STEP 15:

Turn power back on to the unit.

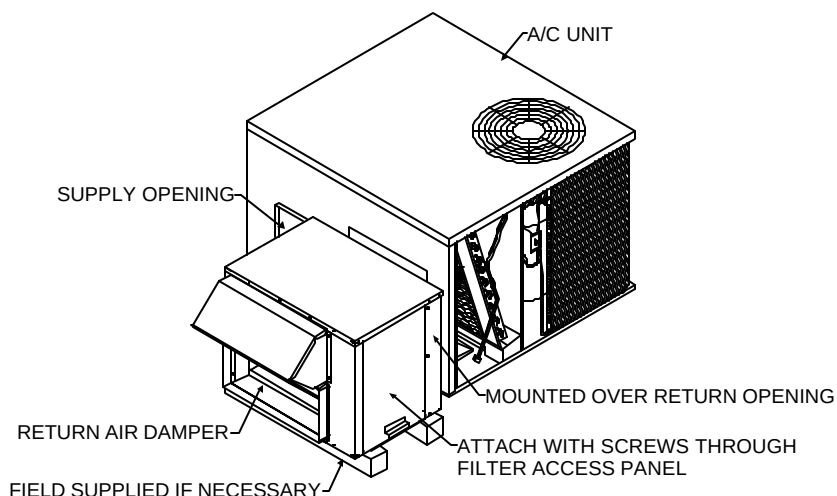


Figure 4

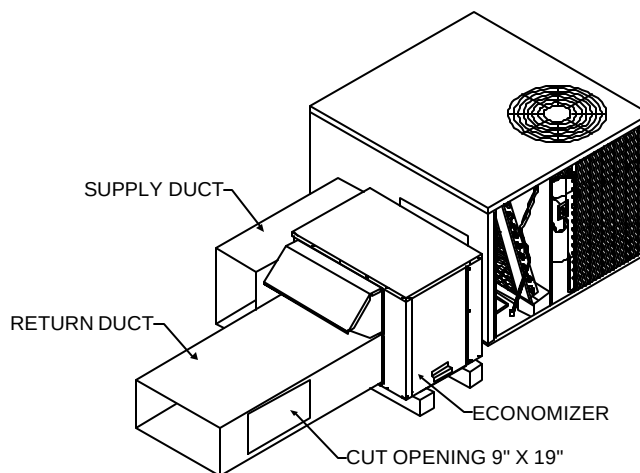


Figure 5

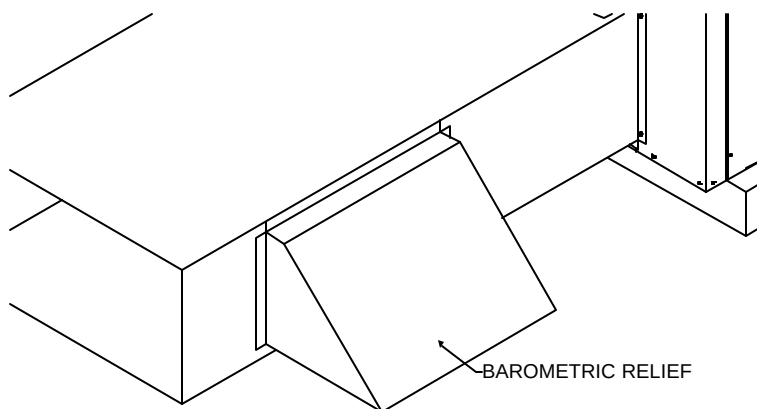
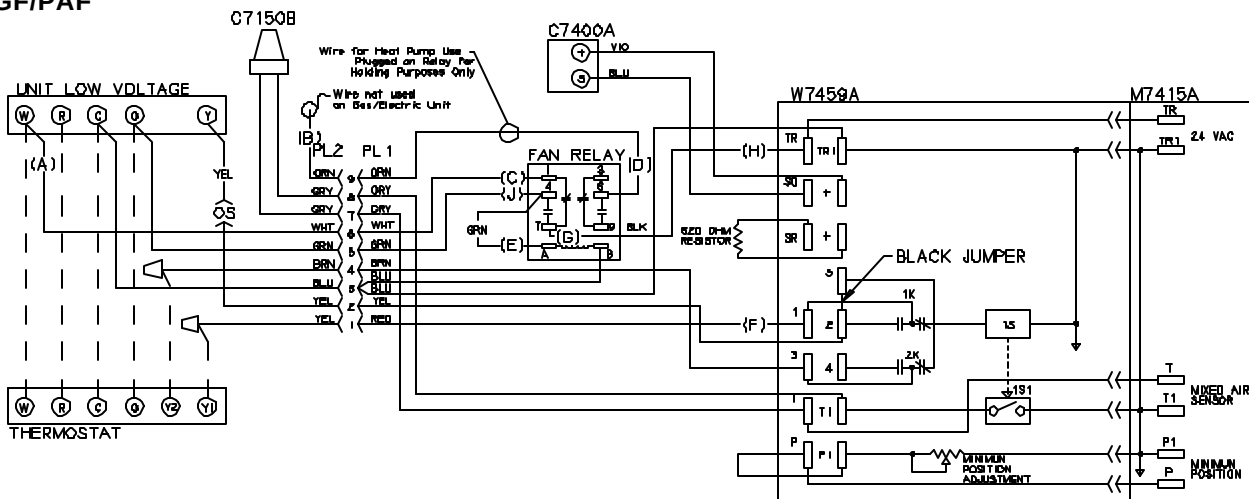


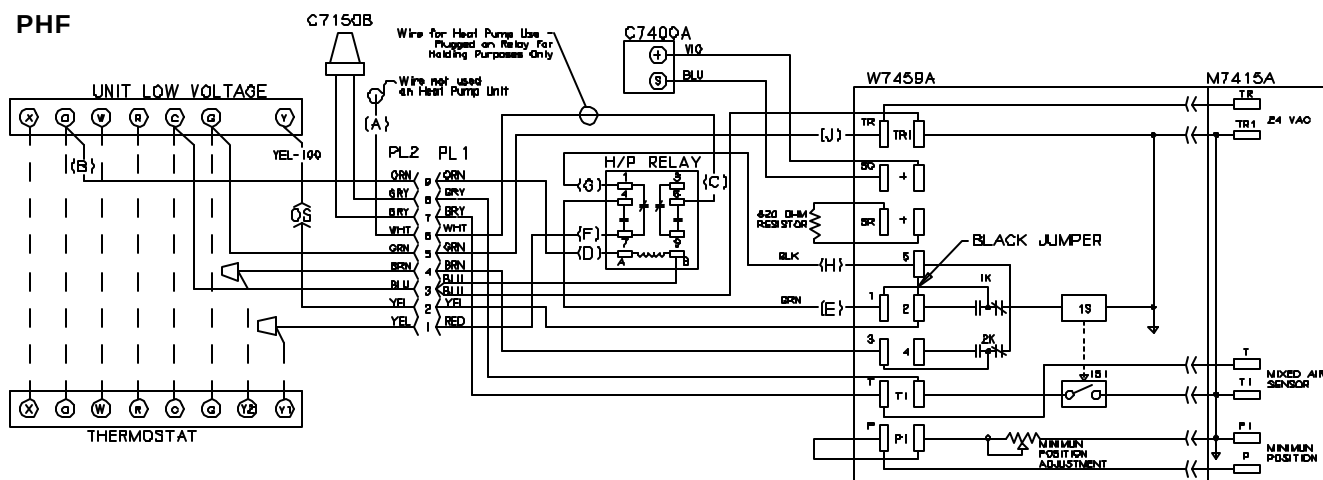
Figure 6

AHE01/02FB0A MODULATING ECONOMIZER

PGF/PAF



PHF



Steps to rewire PGF/PAF to a PHF

STEPS	WIRE NAME	WIRE COLOR	PGF/PAF LOCATION	PHF LOCATION
1	A	WHT - WHITE	"W" - UNIT LOW VOLT AGE	TAPED - NOT USED
2	B	ORN - OR ANGE	TAPED - NOT USED	"O" - UNIT LOW VOLT AGE
3	C	WHT - WHITE	"1" - FAN RE LAY	"6" - HEAT PUMP RE LAY
4	D	ORN - OR ANGE	"6" - FAN RE LAY	"A" - HEAT PUMP RE LAY
5	E	GRN - GREEN	"A" - FAN RE LAY	"1" - W7459 - LOGIC MOD ULE
6	F	RED - RED	"1" - W7459 - LOGIC MOD ULE	"7" - HEAT PUMP RE LAY
7	G	BLK - BLACK	"7" - FAN RE LAY	"1" - HEAT PUMP RE LAY
8	H	BLK - BLACK	"TR" W7459 - LOGIC MOD ULE	"5" - W7459 - LOGIC MOD ULE
9	J	GRN - GREEN	"4" - FAN RE LAY	"TR" - W7459 - LOGIC MOD ULE

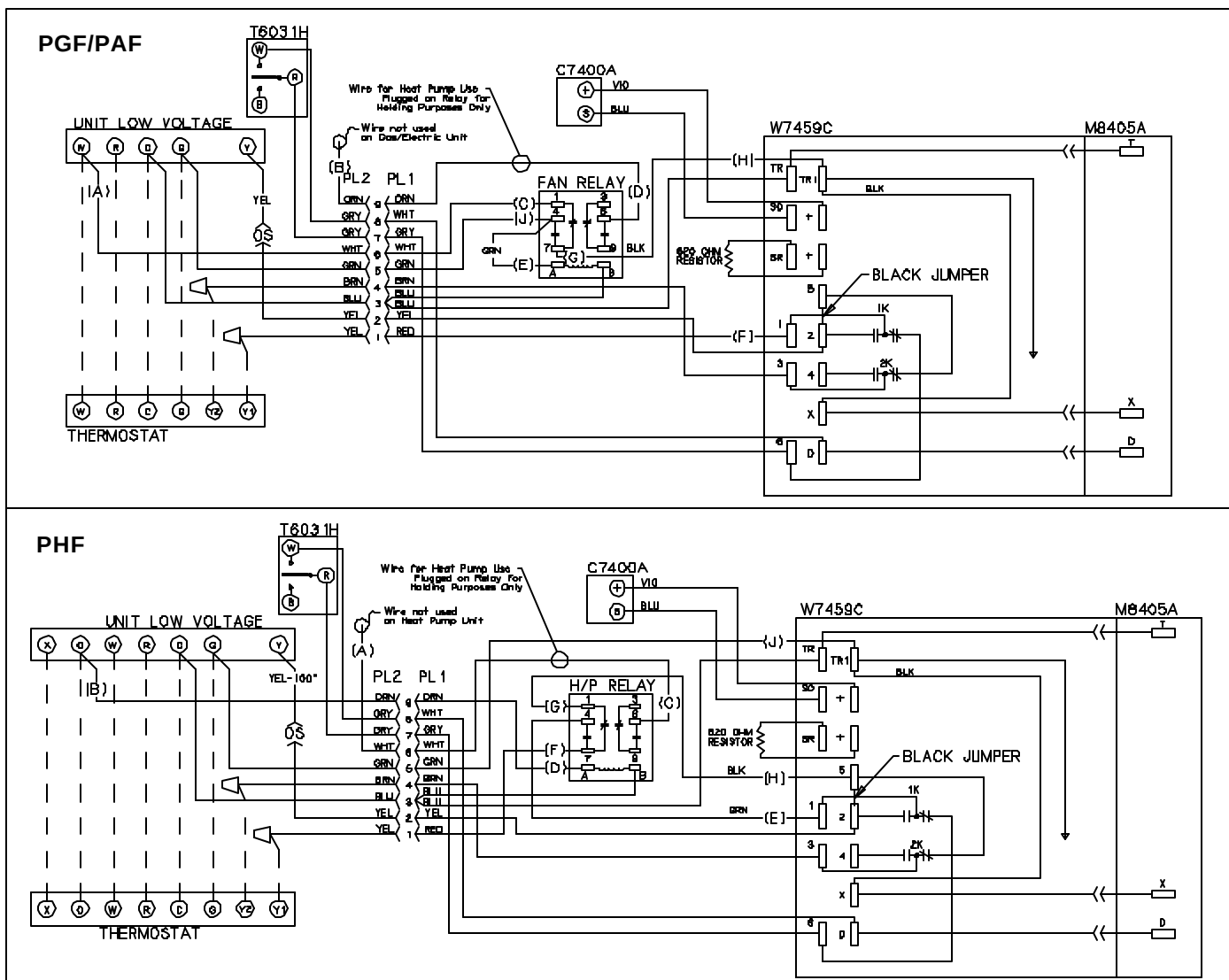
COMPONENT CODE

C7400 Fresh Air Sensor
 PL1/PL2 Economizer Plug (Male/Female)
 M7415A Damper Actuator 24v
 W7459A Logic Module
 C7150B Mixed Air Sensor

Notes:

1. Connect mixed air sensor red to "T" and white to "T1".
2. Unit wiring shown as reference only. Check unit wiring for actual unit wiring.
3. Relays 1K and 2K activate when the Outdoor Air Enthalpy is higher than the Return Air Enthalpy.
4. Factory installed resistor should be removed only if C7400 Differential Enthalpy Sensor is added.
5. Y2 must be energized for the compressor to operate.

AHP01/02FB0A 3- POSITION ECONOMIZER



Steps to rewire PGF/PAF to a PHF

STEPS	WIRE NAME	WIRE COLOR	PGF/PAF LOCATION	PHF LOCATION
1	A	WHT - WHITE	"W" - UNIT LOW VOLT AGE	TAPED - NOT USED
2	B	ORN - OR ANGE	TAPED - NOT USED	"O" - UNIT LOW VOLT AGE
3	C	WHT - WHITE	"1" - FAN RE LAY	"6" - HEAT PUMP RE LAY
4	D	ORN - OR ANGE	"6" - FAN RE LAY	"A" - HEAT PUMP RE LAY
5	E	GRN - GREEN	"A" - FAN RE LAY	"1" - W7459 -LOGIC MOD ULE
6	F	RED - RED	"1" - W7459 - LOGIC MODULE	"7" - HEAT PUMP RE LAY
7	G	BLK - BLACK	"7" - FAN RE LAY	"1" - HEAT PUMP RE LAY
8	H	BLK - BLACK	"TR1" W7459 - LOGIC MODULE	"5" - W7459 - LOGIC MOD ULE
9	J	GRN - GREEN	"4" - FAN RE LAY	"TR1" - W7459 - LOGIC MOD ULE

COMPONENT CODE

C7400 Fresh Air Sensor
 PL1/PL2 Economizer Plug (Male/Female)
 M8405A Damper Actuator 24v
 W7459C Logic Module
 T6031H Mixed Air Sensor

Notes:

- Unit wir ing shown as ref er ence only. Check unit wir ing for ac tual unit wir ing.
- Re lays 1K and 2K ac tu ate when the Out door Air En thalpy is higher than the Re turn Air En thalpy.
- Fac tory in stalled re sis tor should be re moved only if C7400 Dif fer en tial En thalpy Sen sor is added.
- Y2 must be en er gized for the com pres sor to op er ate.

The Hail Guard is designed to prevent damage to the condensor coil of the unit. The following list of parts are required:

STEP 1:

Check for correct number of parts. See list below.

- 1 - Rear Hail Guard (A)
- 1 - Side Hail Guard (B)
- 1 - Rear Top Panel (C)
- 1 - Side Top Panel (D)
- 4 - Vertical Side Panel (E)
- 1 - Corner Post (F)
- 1 - Hardware Package
 - #10- 16 x 1/2 Screw
 - Installation Instruction

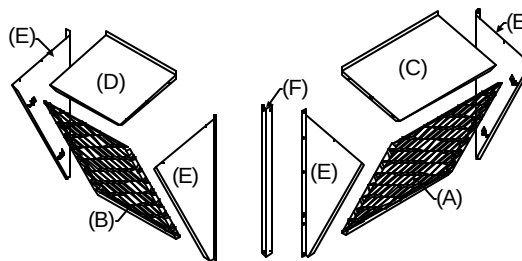


Figure 1

STEP 2:

First remove wire guard from unit and discard wire guard but retain screws.

STEP 3:

Insert the (F) corner post under the top of unit and over bottom of unit and secure with two screws on one side.

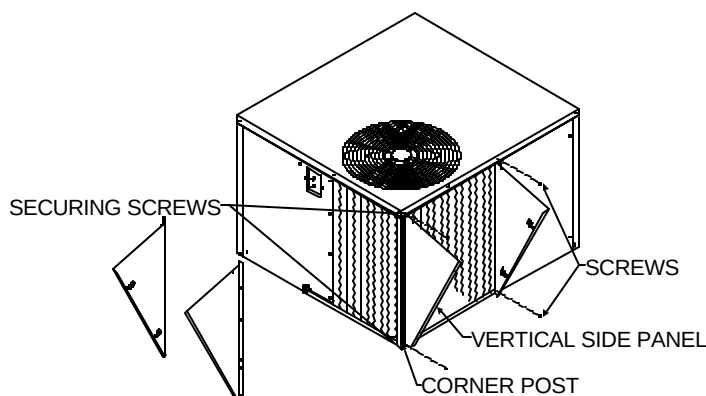


Figure 2

STEP 4:

Take (E) vertical side panel and align holes with corner post that was supplied with hail guard. Then secure the other vertical side panel with the screw from wire guard.

STEP 5:

Repeat Steps 3 and 4 for the other side of unit.

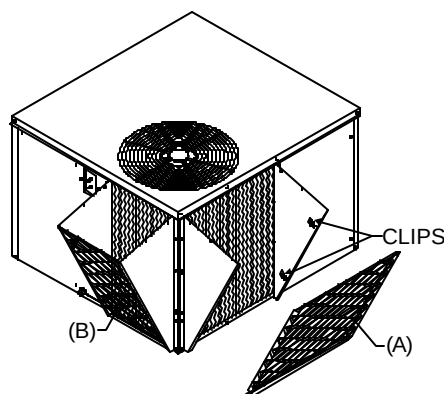


Figure 3

STEP 6:

Then secure (A) and (B) hail guard kits in between clips on vertical side panel and close clips to hold in position.

STEP 7:

Now secure the (C) rear top panel and (D) side top panel with the flange under top of unit and flange over hail guard kit.

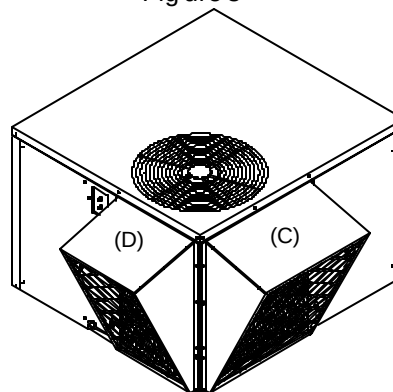


Figure 4

STEP 1:

Check for correct number of parts. See list below:

- 1 ea. -Side Filter Bracket
- 1 ea. -Bottom Filter Bracket
- 1 ea. -Filter Clip
- 1 ea. -Hardware
 - 2 ea. -1/2 x 10 x 16 Type A Screws.
 - 2 ea. -1/2 x 10 x 16 Self-tapping Screws

STEP 2:

Filters are field supplied. See chart for sizes.

UNIT	FILTER SIZE
PGF 018-042B PAF 018-036 PHF 018-036	(2) 12" X 25" X 1"
PGF 042A-060 PAF 042-060 PHF 042-060	(2) 14" X 25" X 1"

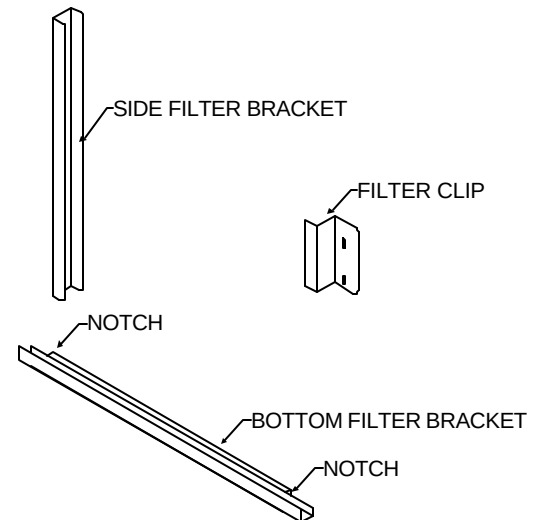


Figure 1

STEP 3:

Remove return access panel.

STEP 4:

Install side filter bracket by using the two type A screws provided. Take the side filter bracket and line up holes with holes in divider wall and secure.

STEP 5:

Insert notched flange into drain pan then insert filters letting one filter rest on top of the other.

STEP 6:

Take filter clip and locate it on the filter panel where the two filters meet and secure with the two self-tapping screws supplied.

CAUTION:

BE SURE WHEN LOCATING FILTER CLIP NOT TO PUNCTURE COIL LINES!

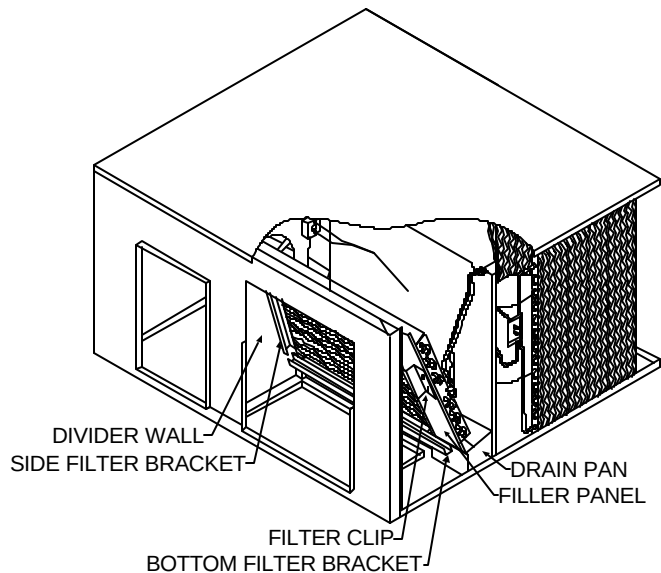


Figure 2

This Roof Curb is built to NRCA specifications and is constructed of 18 gauge galvanized steel with a full perimeter 1" X 4" wood nailer strip. Curb height is determined by the part number as listed below.

AXB020CLA = 8 inches high.
AXB020CMA = 14 inches high.
AXB020CHA = 24 inches high.

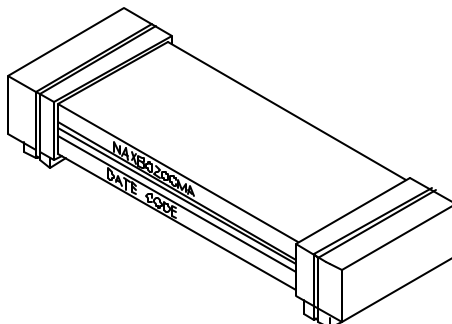


Figure 1

STEP 1:

Check for the correct number of parts. See list below.

1. 4 ea. Curb Sides - 42 $\frac{3}{4}$ " long **(A)**
2. 1 ea. Duct Support **(B)**
3. 2 ea. Insulated Pans **(C)**
4. 2 ea. Gasket $\frac{3}{4}$ " x $1\frac{1}{4}$ " x 14' (28 ft. total)
5. 1 ea. Hardware Package includes:
 - 10 ea. Hex Washer Screws #10 X $\frac{1}{2}$ "
 - 4 ea. "Hinge" Pins $\frac{3}{16}$ " X $7\frac{1}{2}$ " (8 inch high)
 - $13\frac{1}{2}$ " (14 inch high)
 - $23\frac{1}{2}$ " (24 inch high)

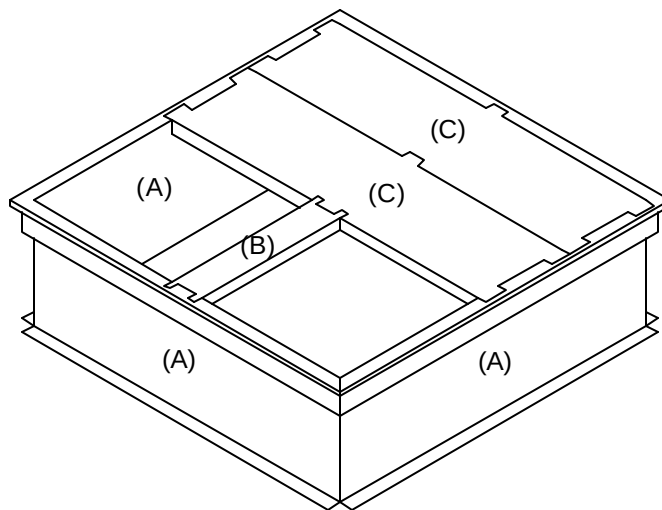


Figure 2

STEP 2:

Layout the curb pieces before assembly to insure that all the necessary pieces are included.

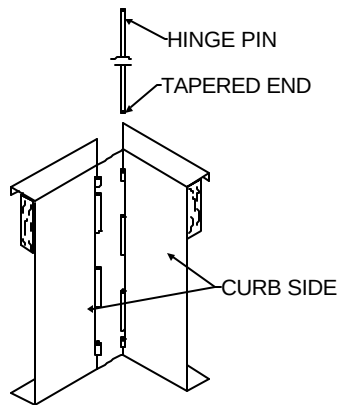


Figure 3

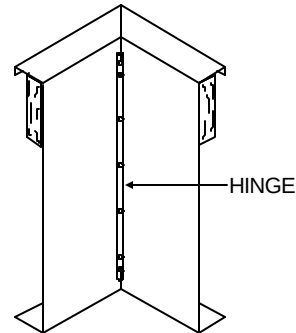


Figure 4

STEP 3:

Corner Assembly: Align each curb side as shown in (Figure 3). Using a hammer, drive the curb “hinge” pin down until the top of the pin is below the top of the curb (Figure 4).

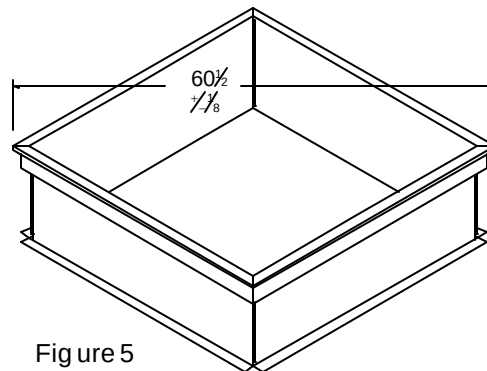
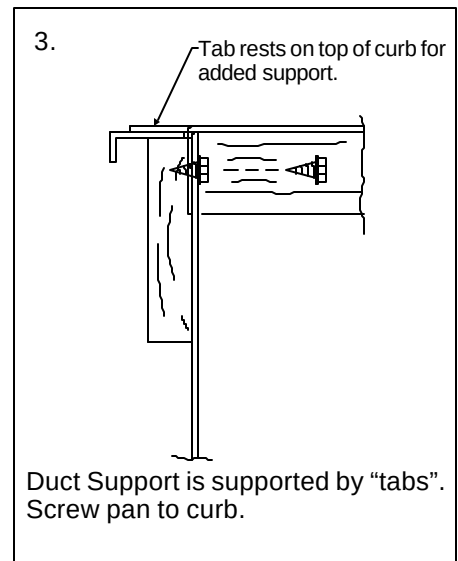
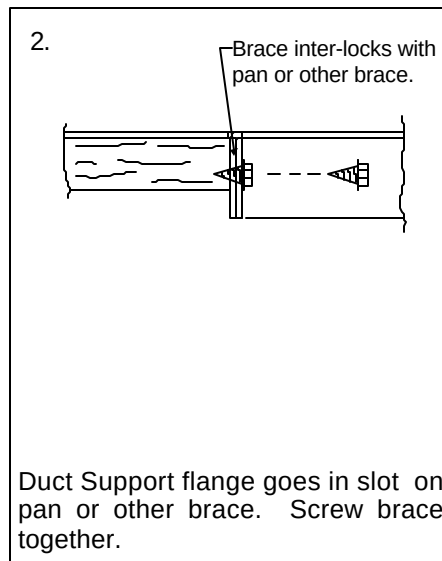
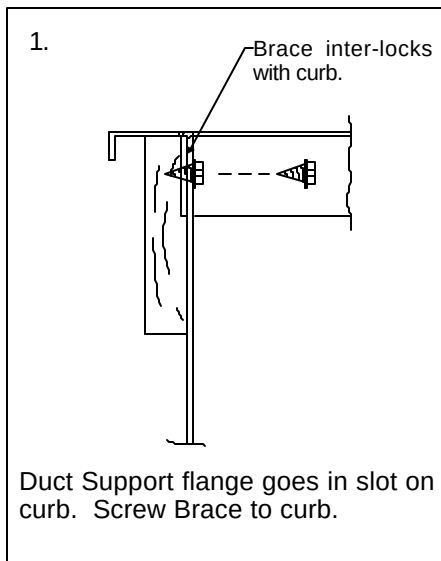


Figure 5

STEP 4:

After the four corners are assembled; the curb should be checked to be sure it is in “square”. Do this by measuring diagonally from each opposite corner. The two measurements should be the same for each direction.

DETAILS



The AXB020 C*A can now have the duct support and the insulated pans installed, unless a transition (AXB020CTA) is to be installed. If this is the case follow transition instructions from this point.

STEP 5:

Install the insulated pans (C) on the curb as shown with the roof opening over the desired duct location. See "DETAILS #3"

STEP 6:

Place the duct support (B) on the curb and the pan, making sure that it is in the right location. See "DETAILS #1 and #2"

STEP 7:

If the curb is being assembled & moved to another location, attach the brace & pans to the curb as shown in the "DETAILS".

STEP 8:

Place the $\frac{3}{4}$ " X 1 $\frac{1}{4}$ " gasket on the top edges of the curb, duct support & pan.

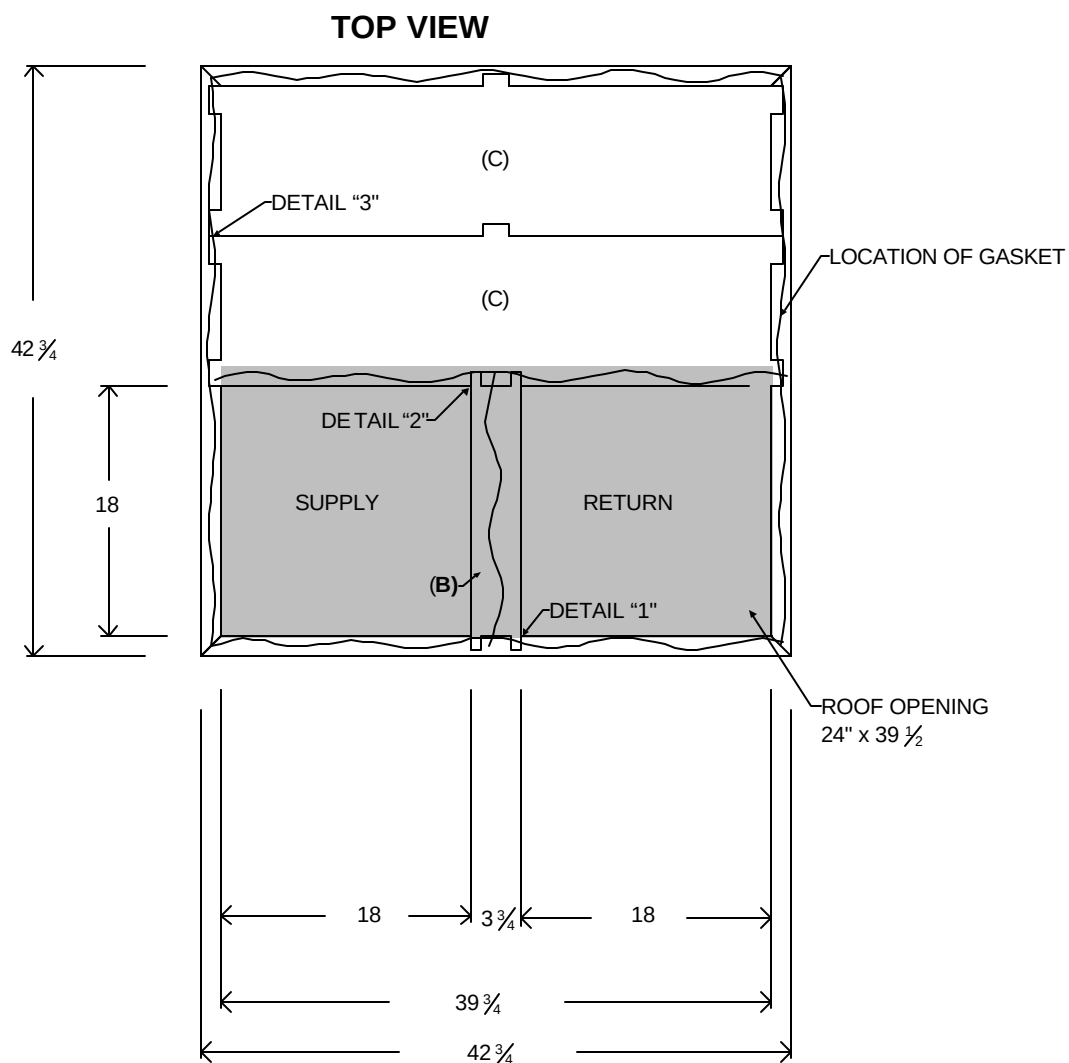
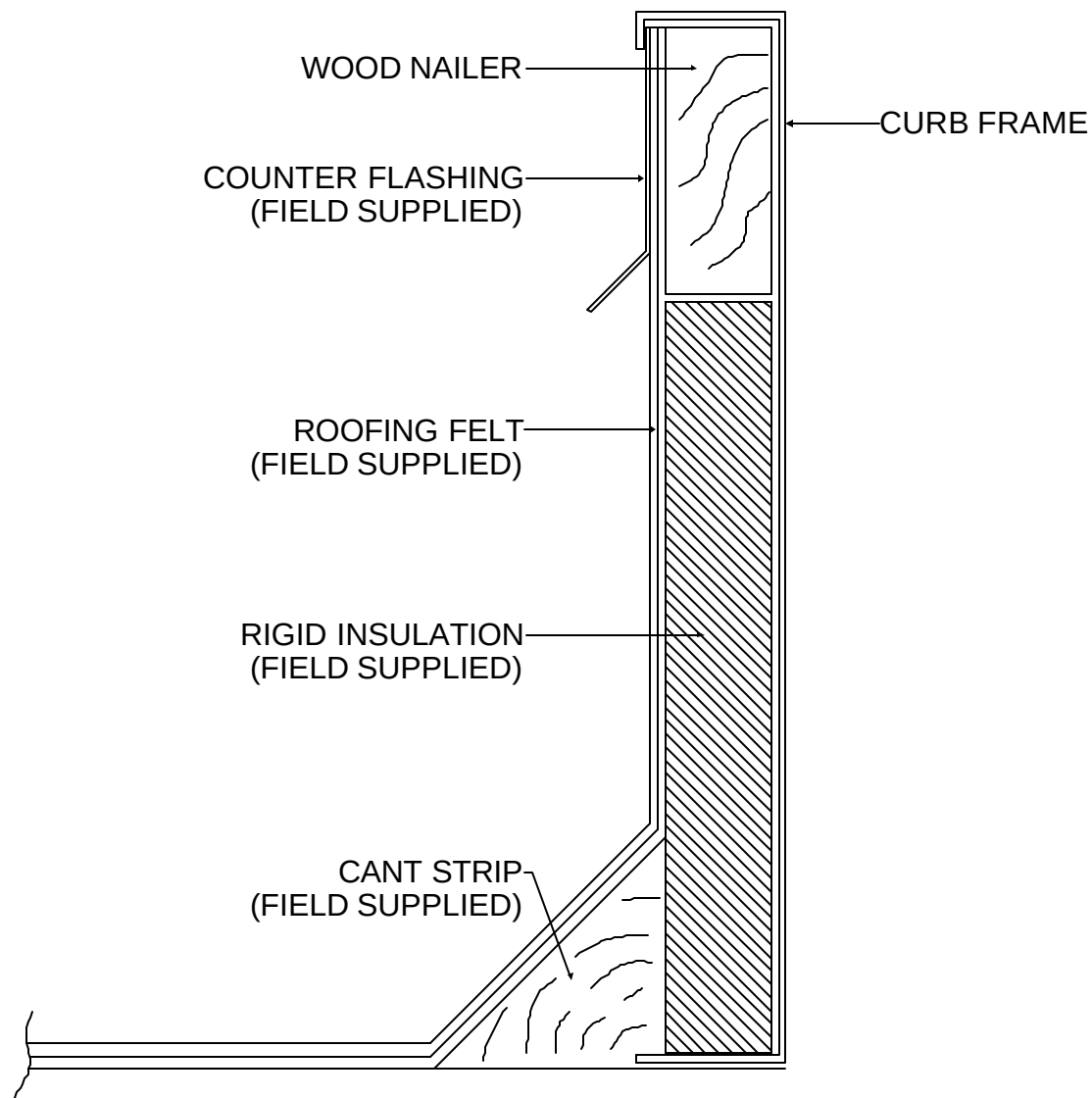


Figure 6

**ROOFING
INSTRUCTIONS**



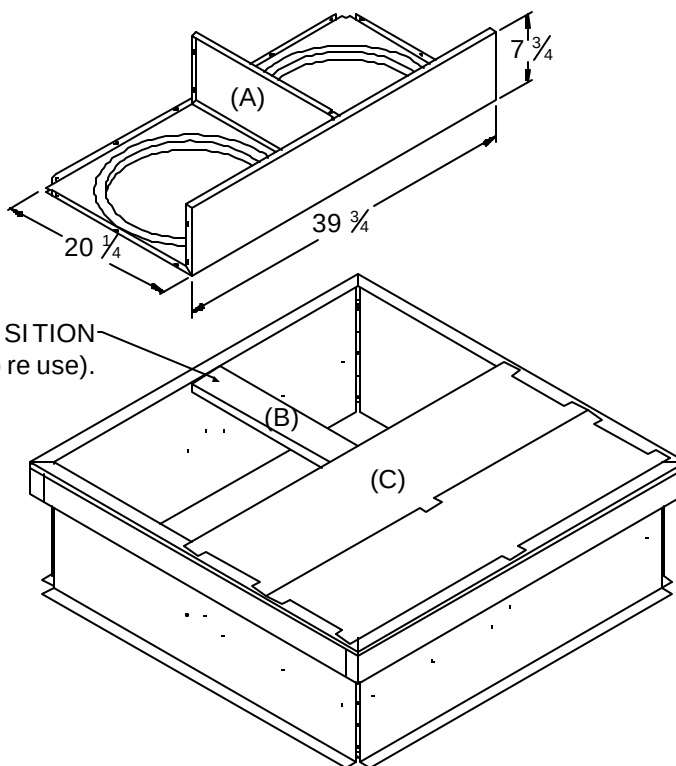
INTERNATIONAL COMFORT PRODUCTS

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37091
PHONE (931) 359-3511
FAX (931) 270-4199

The Concentric Curb Transition is designed to drop into the curb and convert the unit square duct connections to round duct.

For use with:

AXB020CLA
AXB020CMA
AXB020CHA



*REMOVE TO INSTALL TRANSITION
(Set aside to re use).

MODEL#	DUCT SIZE
AXB020CTA	16" RD
ACT22FB0A	18" RD

STEP 1:

Check for correct number of parts. See list below.

1. 1 ea. Transition Section (A)
2. 18 ea. #10-16 X $\frac{1}{2}$ " Hex Tec Screws

STEP 2:

Remove duct support (B)* see note above and set it aside.

STEP 3:

Lift out (C) insulated pan and sit it aside to reuse.

STEP 4:

Attach duct to transition duct connections.

STEP 5:

Install transition in supply/return opening in roof curb using #10-16 X $\frac{1}{2}$ " Hex Tec Screws provided, (note: screws attached from inside of transition to curb).

STEP 6:

Reinstall (C) insulated pan, and (B) duct support to original position.

STEP 7:

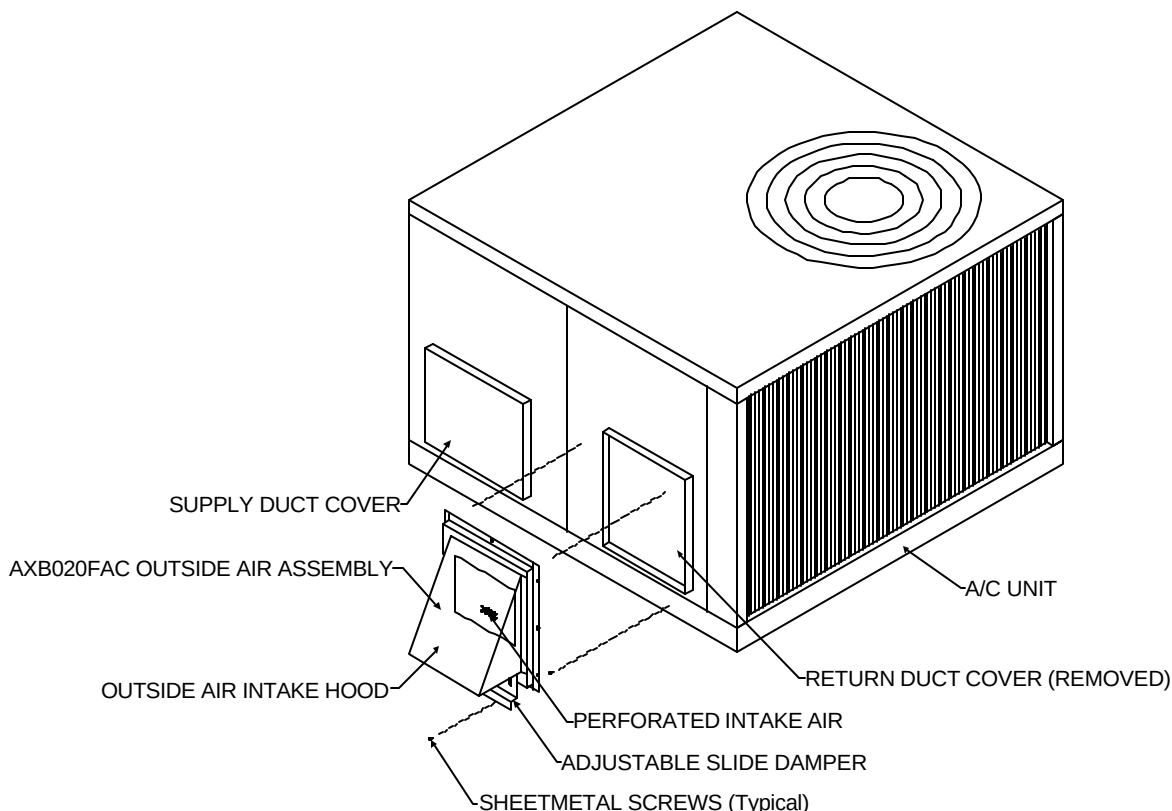
Place $\frac{3}{4}$ " X $1\frac{1}{4}$ " gasket (included with the curb only) as instructed in roof curb installation sheet.

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The 0-25% manual outside air system is designed to replace the unit duct cover. No drilling on the unit or field assembly is required. The amount of outside air is controlled by simply adjusting the slide damper. The panel is fully insulated.

Filter Rack Model# AXB020FKA must be used with Outside Air Damper.



STEP 1:

Check for correct number of parts. See list below:

1 ea. - Outside Air Intake panel assembly with hood and slide damper.

STEP 2:

Remove return air duct cover from unit, and save the screws.

STEP 3:

Install outside air assembly as shown in Figure 1 over duct opening with the screws removed in Step 2.

STEP 4:

Adjust the slide damper to the desired position.

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The 0-25% manual outside air system is designed to replace the unit duct cover. No drilling on the unit or field assembly is required. A 2-position control motor that opens the intake damper when the blower is energized. The amount of air is controlled by the adjustable slide damper. The intake panel is fully insulated..

Filter Rack Model# AXB020FKA must be used with Outside Air Damper.

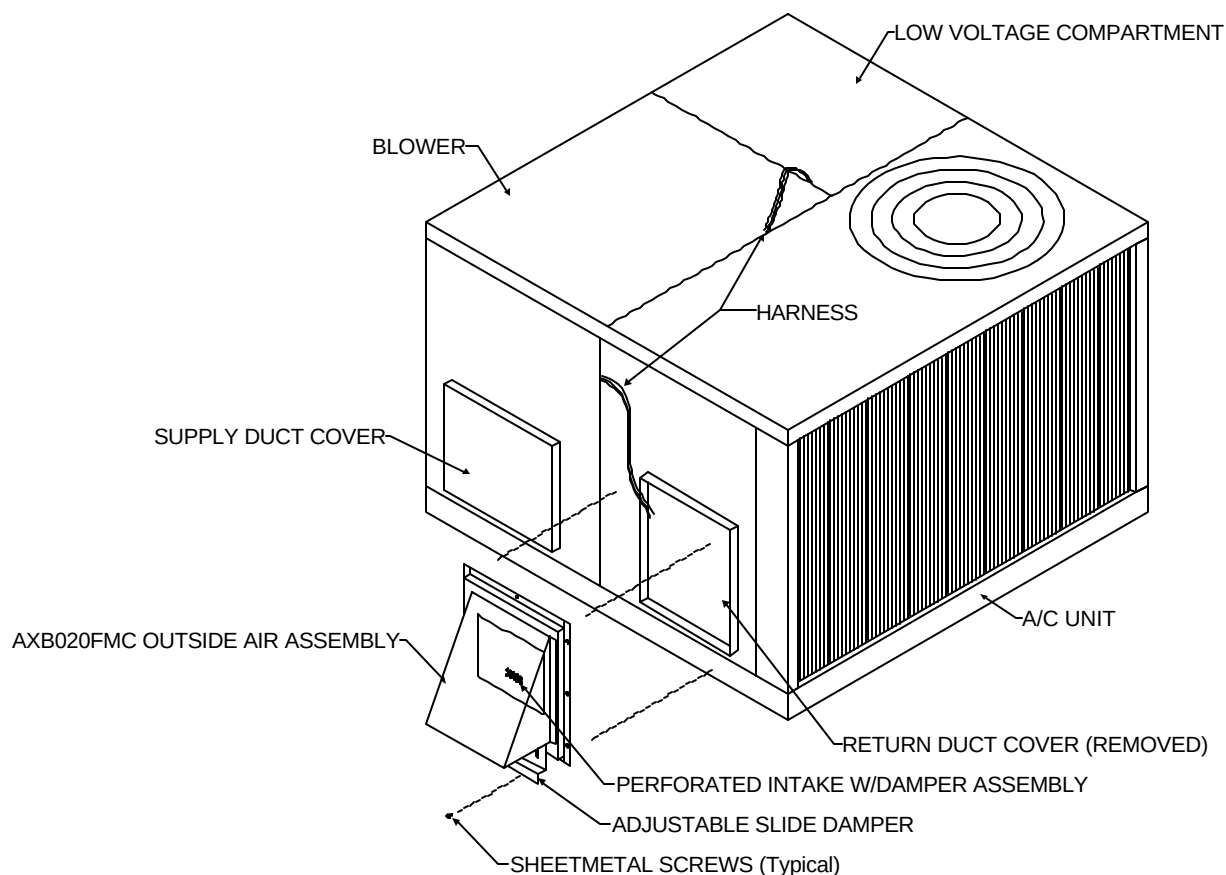


FIGURE 1

STEP 1:

Check for correct number of parts. See list below:

1 ea. - Outside Air Intake damper assembly with hood and slide damper.

STEP 2:

Remove return air duct cover from unit, and save the screws.

STEP 3:

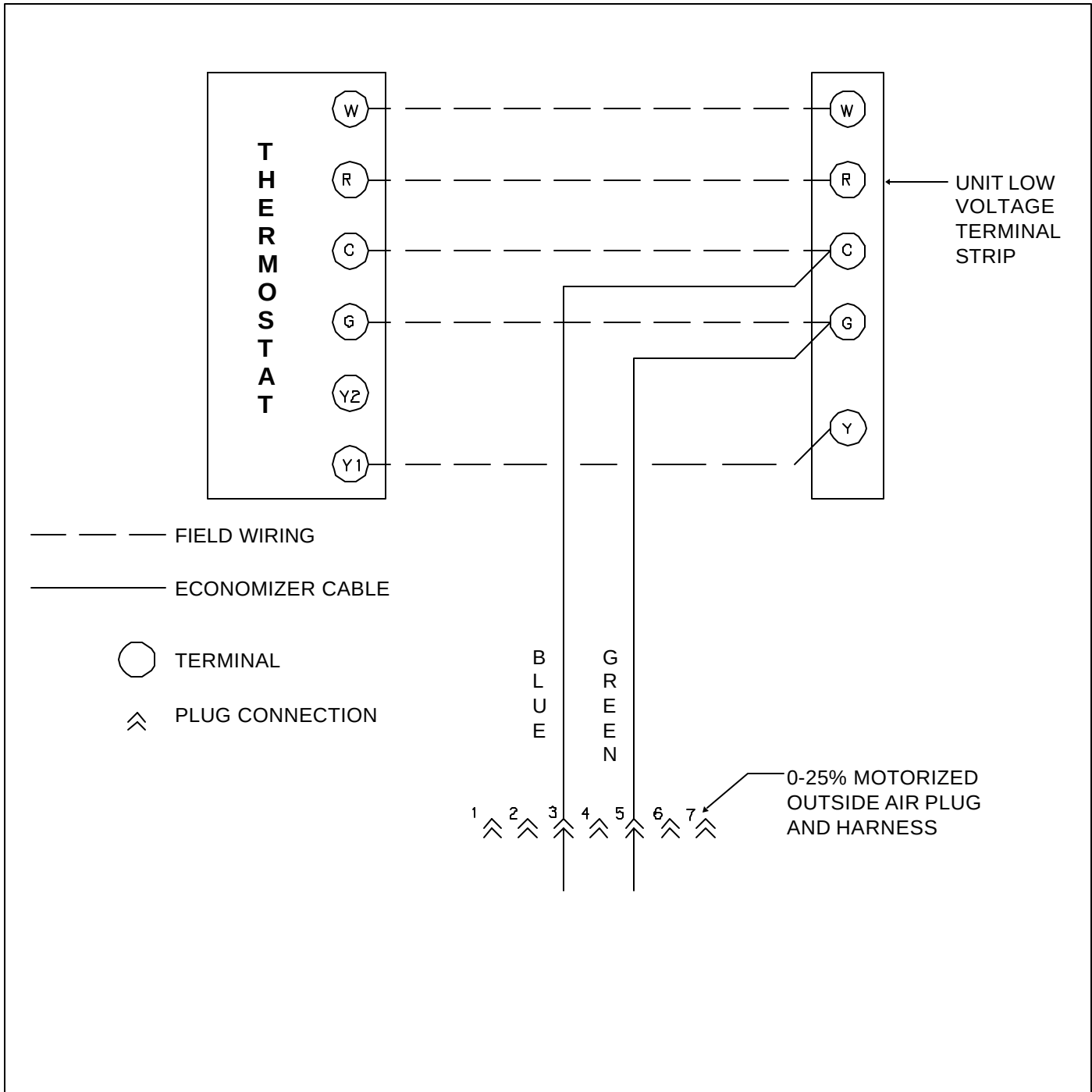
Remove blower access panel. Route the cable through the panel next to coil, then along division wall behind blower over division wall to low voltage.

STEP 4:

Install outside air assembly as shown in Figure 1 over duct opening with the screws removed in Step 2.

STEP 5:

Adjust the slide damper to the desired position.



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APPLICATION

AXB020ECA Economizers are used with PGA 18-42 units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Filter Access Door
- 1 - Economizer Outdoor Air Hood
- 1 - Wiring Diagram Sticker
- 4 - #10 - 16 x ½ Hex Tec Screws
- 1 - Top Filter Bracket with Spacer
- 1 - Bottom Filter Bracket with Spacer
- 1 - Filter (18 X 25 X 1)
- 1 - "U" Clip

STEP 2:

Disconnect all power to unit.

STEP 3:

Remove the return air access panel. (See Figure 1).

STEP 4:

Install top filter bracket by (1) inserting the top filter bracket's top flange between the unit top and the interior panel. Push the "U" clip on the bracket and the coil as shown in Figure 2. For 2" inch filter remove filter spacer.

STEP 5:

Install bottom filter bracket. The bracket fits over the coil drain pan as shown in Figure 3. Remove filter spacer for 2" inch filter.

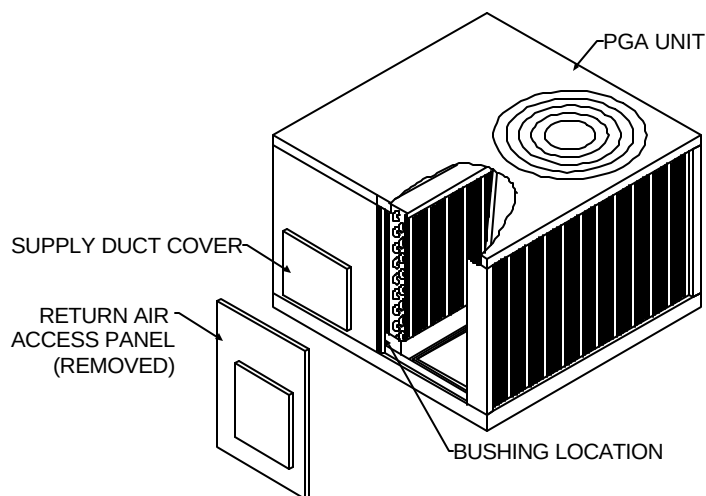


Figure 1

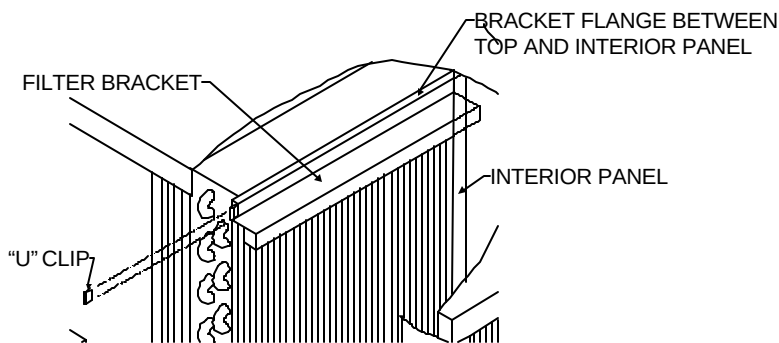


Figure 2

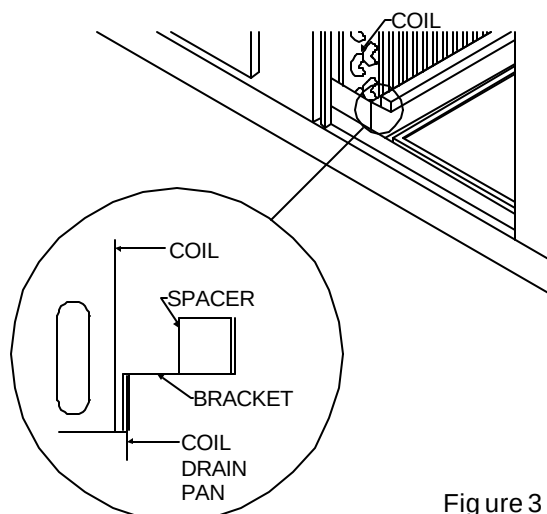


Figure 3

STEP 6:

Slide filter into the assembly. See Figure 4.

STEP 7:

Remove discharge air sensor from Economizer and Economizer cable, shown in Figure 5.

STEP 8:

Loosen the screws on the unit top around the return opening. (See Figure 6). Remove screws and Economizer top and slide into unit over return opening.

STEP 9:

Once the Economizer is in place take the top of the Economizer and tilt under the unit top. When Economizer top is in original position replace screws to secure. (See Figure 7).

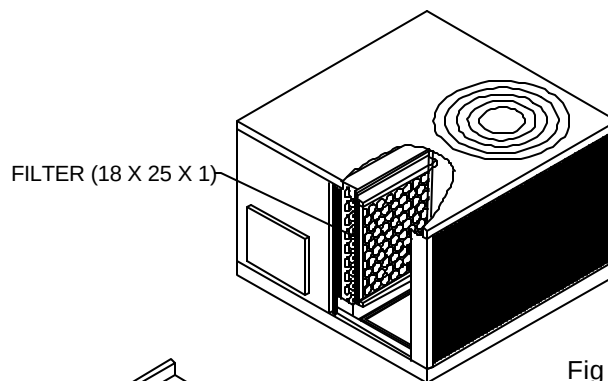


Figure 4

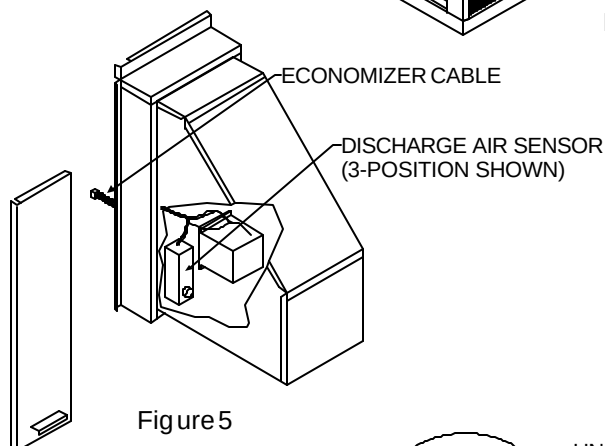


Figure 5

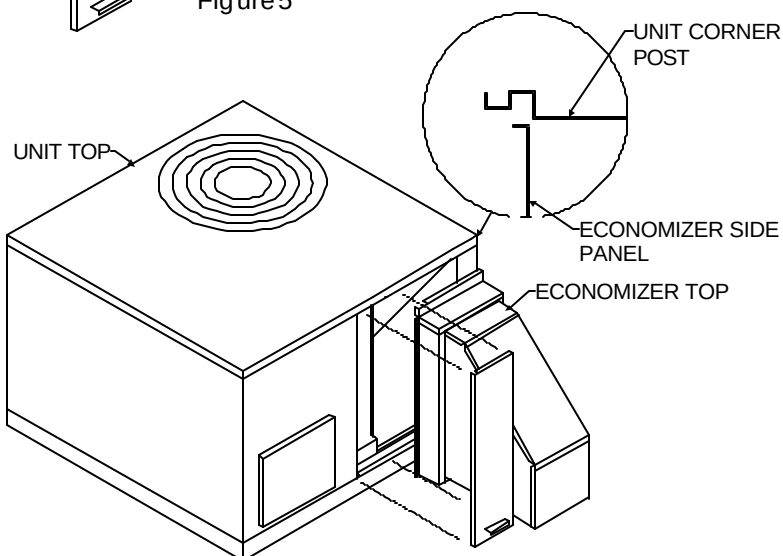


Figure 6

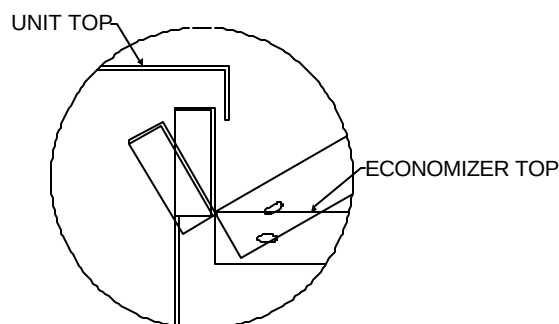


Figure 7

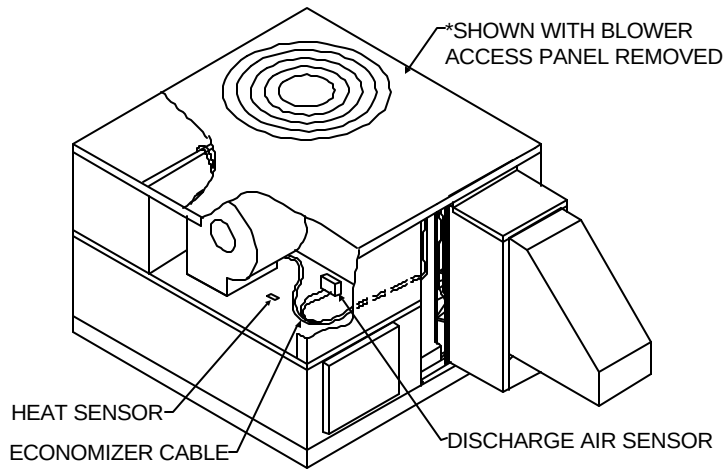


Figure 10

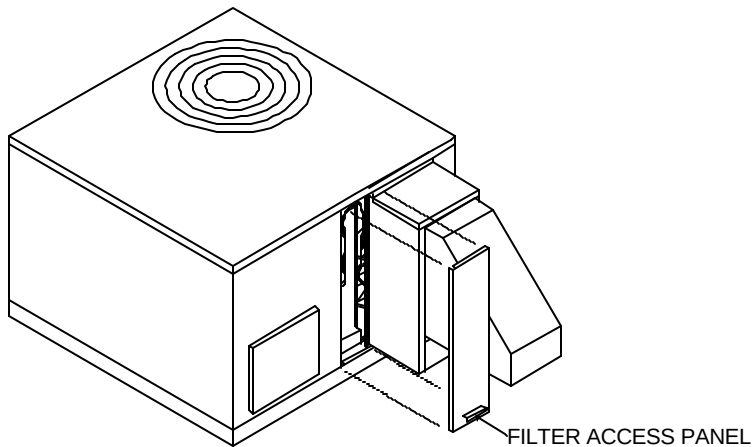


Figure 11

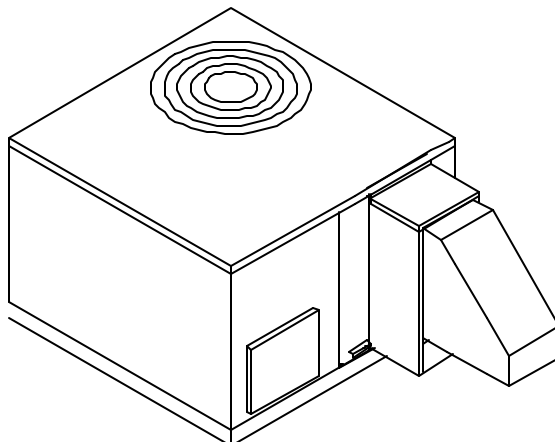


Figure 12

STEP 10:

Route the cable through the unit as shown. (See Figure 10). The short red and white wires will be used for the discharge air sensor.

STEP 11:

Remove blower access panel. Install the discharge sensor in blower section of the unit. Drill a hole and mount the sensor 6 inches to the right and 6 inches up from the "Heat Sensor" (see Figure 10) as viewed from the blower access panel removed.

STEP 12:

Place the adhesive backed wiring diagram on the low voltage compartment access door by the unit diagram. Reinstall blower access panel.

STEP 13:

Wire the Economizer cable to the unit per the diagram. (See wiring diagram on page 4).

STEP 14:

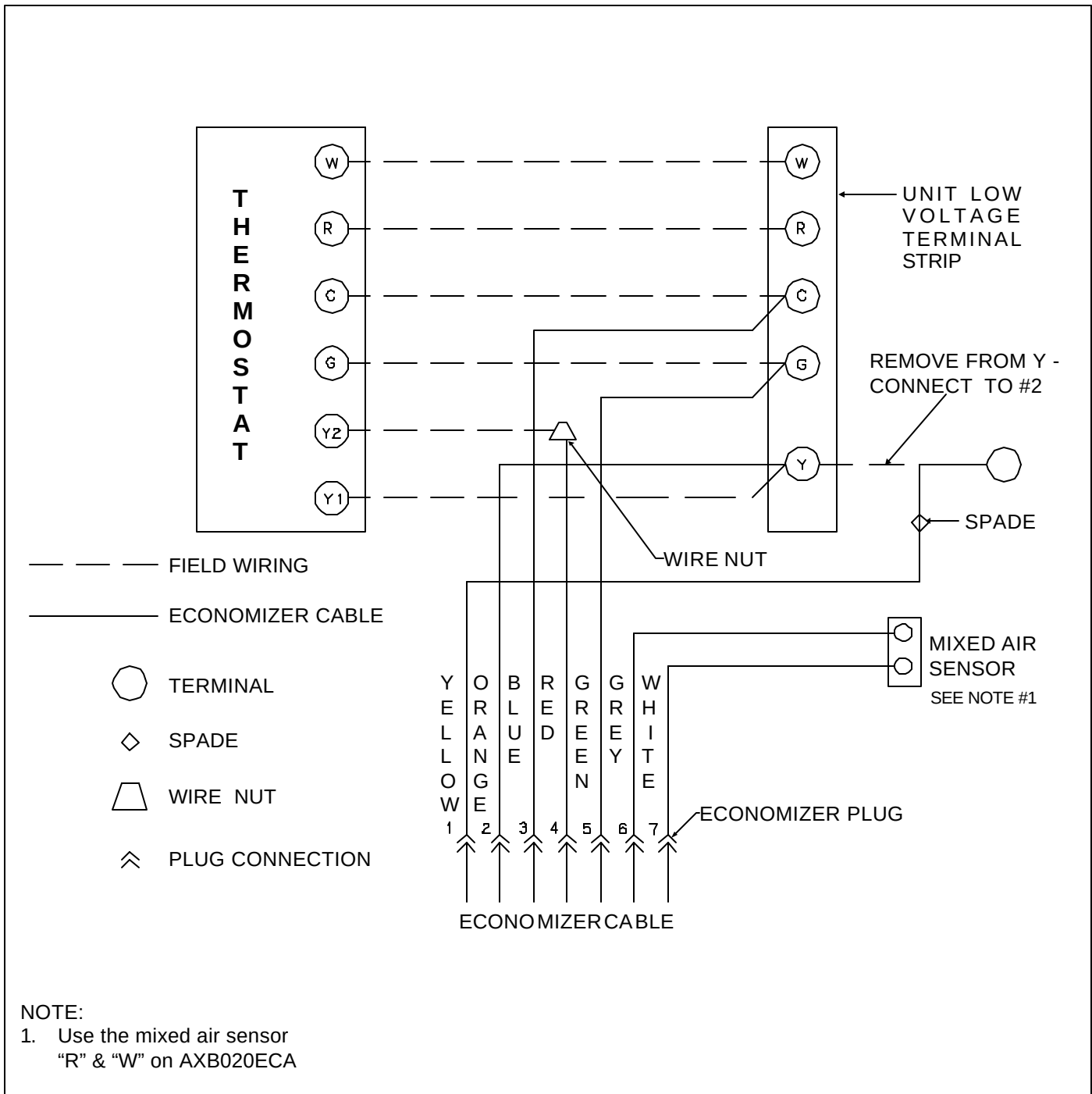
See the enclosed Honeywell® specification data for operation and check out.

STEP 15:

Install filter access panel as shown in Figure 11.

STEP 16:

Turn power back on to the unit.



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APPLICATION

AXB020EMC/EPB/EPD Economizers are used with PGA 18-42 units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Filter Access Door
- 1 - Economizer Outdoor Air Hood
- 1 - Wiring Diagram Sticker
- 4 - #10 - 16 x ½ Hex Tec Screws
- 1 - Top Filter Bracket with Spacer
- 1 - Bottom Filter Bracket with Spacer
- 1 - Filter (18 X 25 X 1)
- 1 - "U" Clip

STEP 2:

Disconnect all power to unit.

STEP 3:

Remove the return air access panel. (See Figure 1).

STEP 4:

Install top filter bracket by (1) inserting the top filter bracket's top flange between the unit top and the interior panel. Push the "U" clip on the bracket and the coil as shown in Figure 2. For 2" inch filter remove filter spacer.

STEP 5:

Install bottom filter bracket. The bracket fits over the coil drain pan as shown in Figure 3. Remove filter spacer for 2" inch filter.

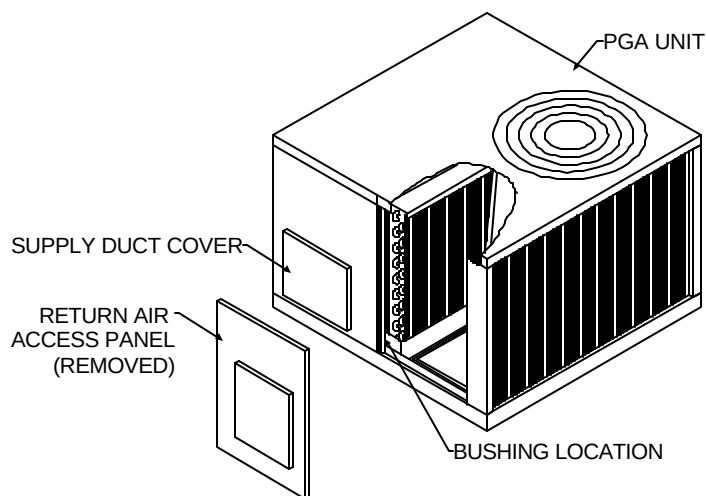


Figure 1

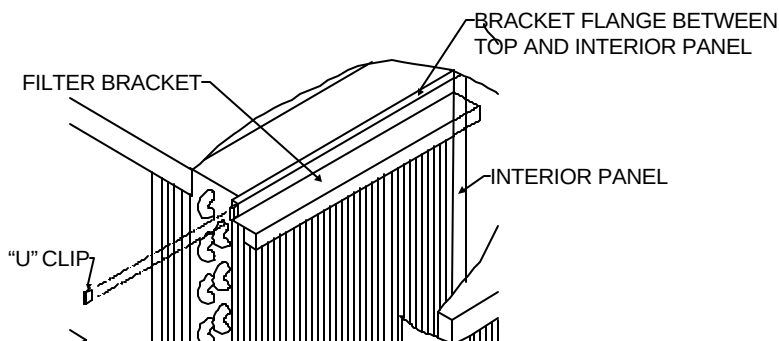


Figure 2

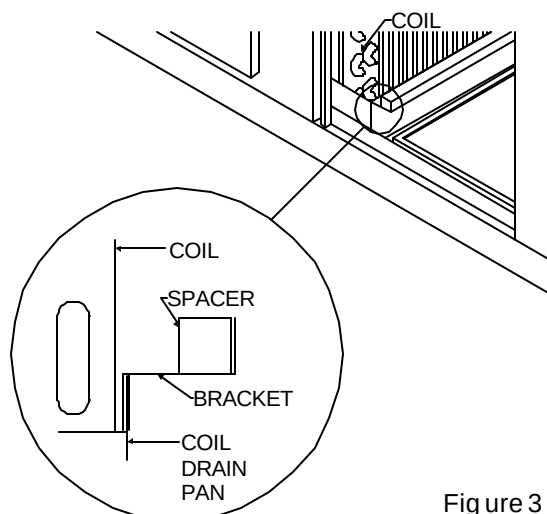


Figure 3

STEP 6:

Slide filter into the assembly. See Figure 4.

STEP 7:

Remove discharge air sensor from Economizer and Economizer cable, shown in Figure 5.

STEP 8:

Loosen the screws on the unit top around the return opening. (See Figure 6). Remove screws and Economizer top and slide into unit over return opening.

STEP 9:

Once the Economizer is in place take the top of the Economizer and tilt under the unit top. When Economizer top is in original position replace screws to secure. (See Figure 7).

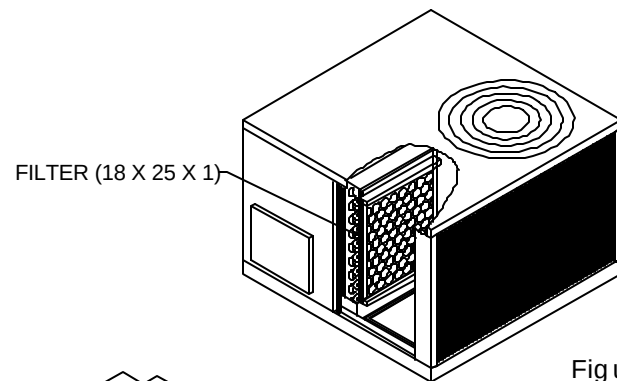


Figure 4

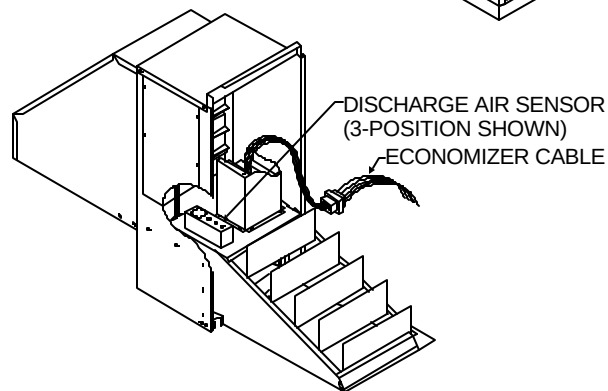


Figure 5

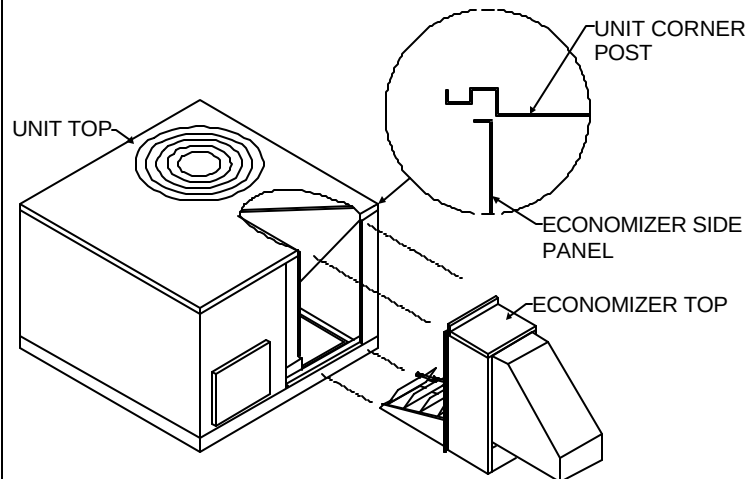


Figure 6

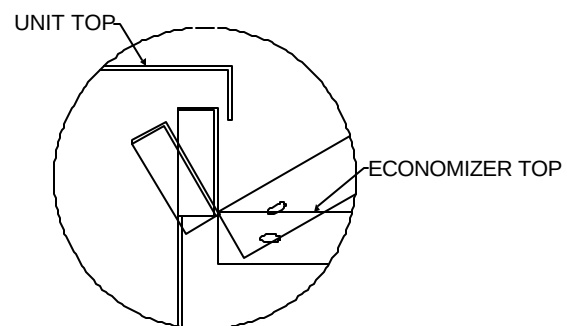


Figure 7

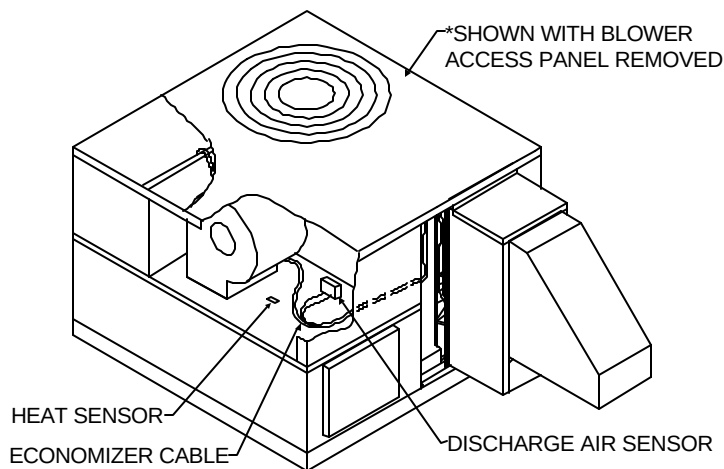


Figure 10

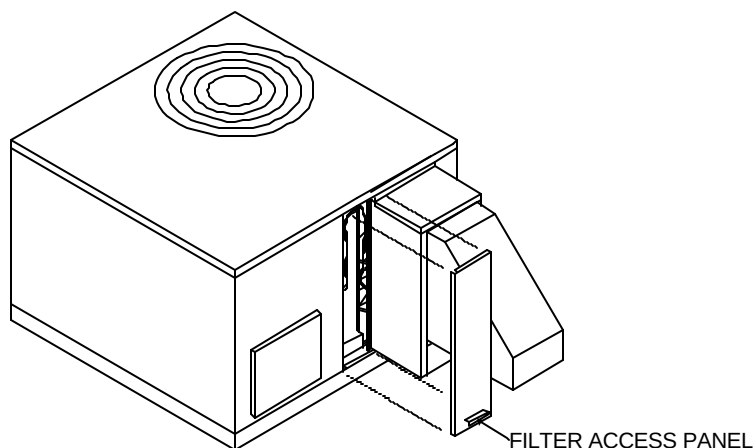


Figure 11

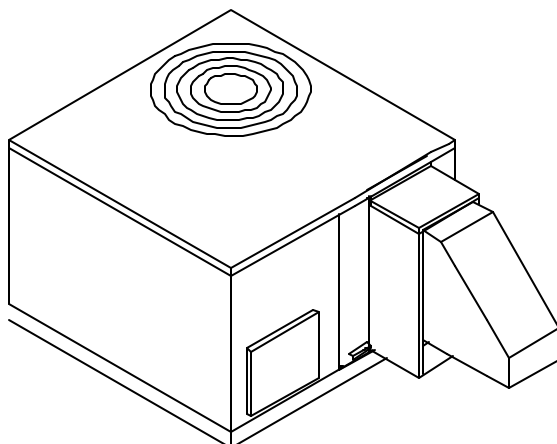


Figure 12

STEP 10:

Route the cable through the unit as shown. (See Figure 10). The short red and white wires will be used for the discharge air sensor.

STEP 11:

Remove blower access panel. Install the discharge sensor in blower section of the unit. Drill a hole and mount the sensor 6 inches to the right and 6 inches up from the "Heat Sensor" (see Figure 10) as viewed from the blower access panel removed.

STEP 12:

Place the adhesive backed wiring diagram on the low voltage compartment access door by the unit diagram. Reinstall blower access panel.

STEP 13:

Wire the Economizer cable to the unit per the diagram. (See wiring diagram on page 4).

STEP 14:

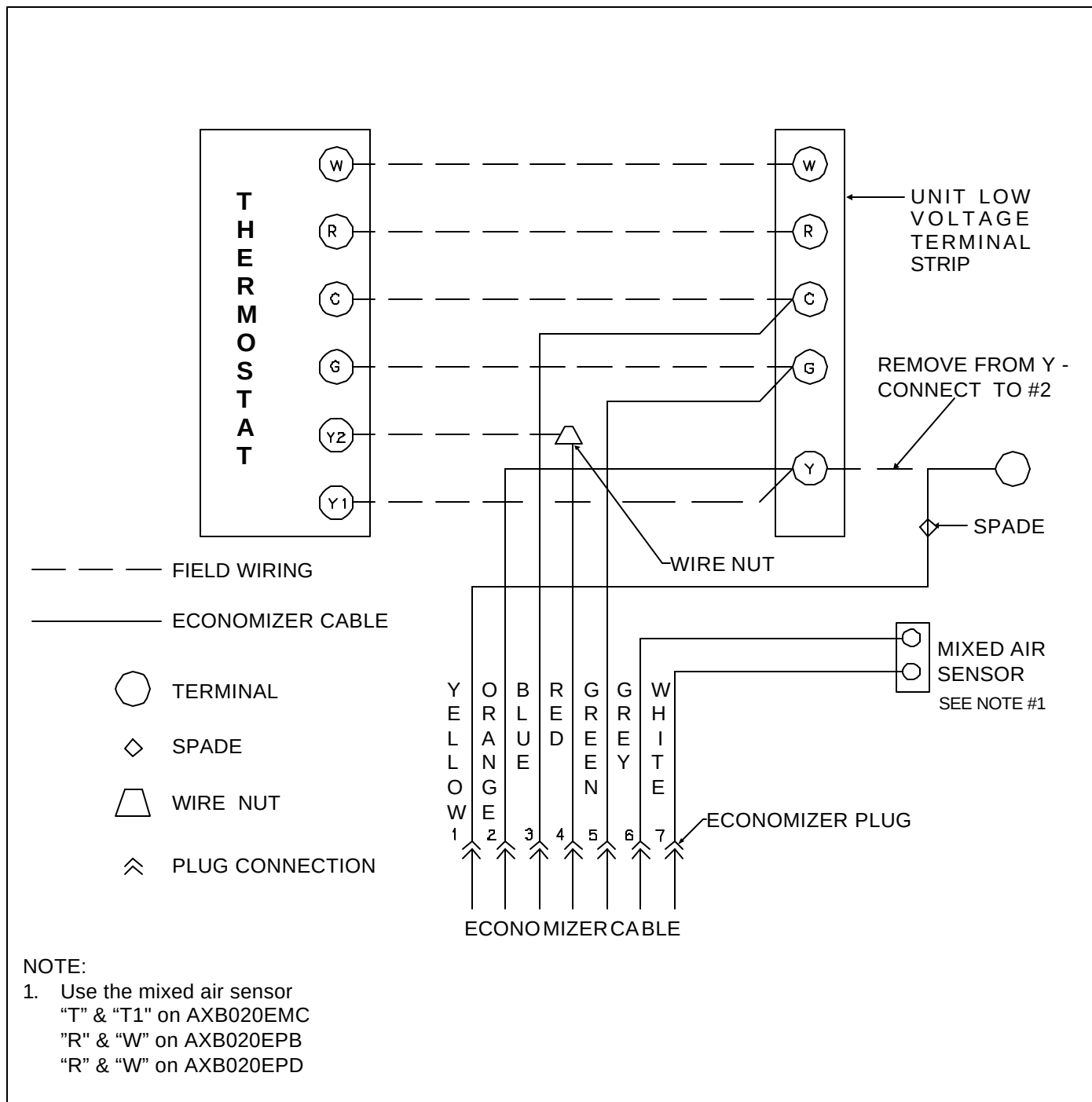
See the enclosed Honeywell® specification data for operation and check out.

STEP 15:

Install filter access panel as shown in Figure 11.

STEP 16:

Turn power back on to the unit.



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AXB020HEC/HPB/HPD Economizers are used with PGAA/AO 018-042 units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

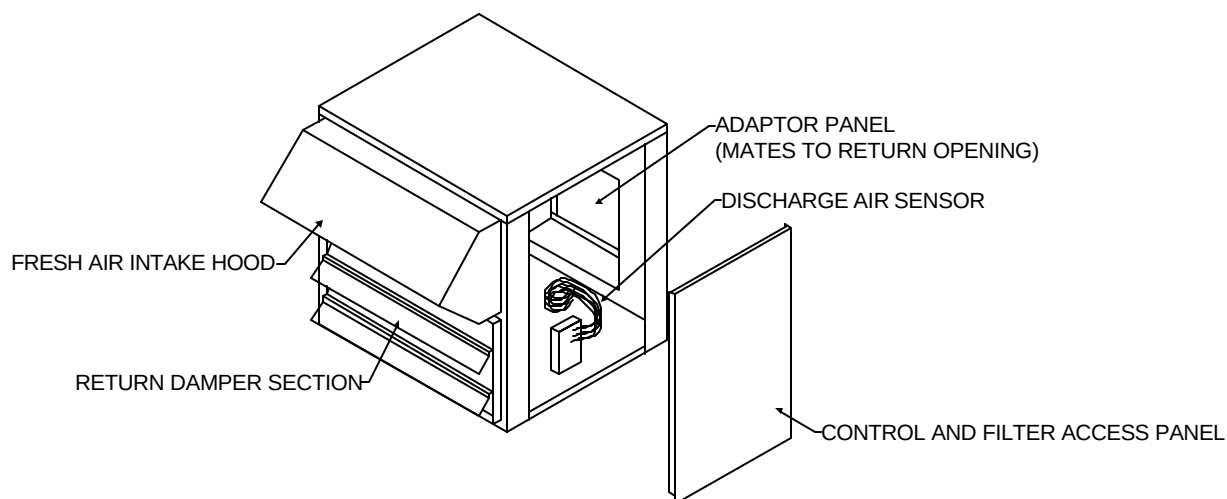


Figure 1

STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Relief Hood
- 1 - Wiring Diagram Sticker
- 4 - #10 - 16 x 1/2 Hex Tec Screws

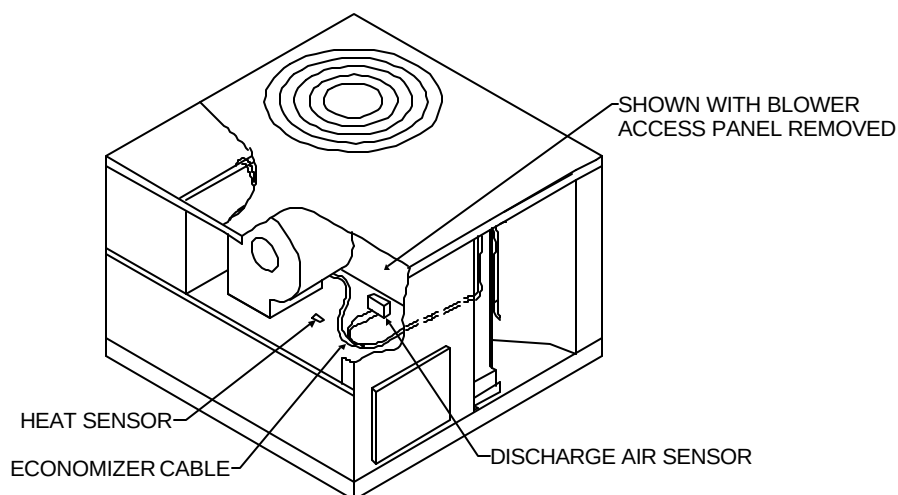


Figure 2

STEP 2:

Disconnect all power to unit.

STEP 3:

Remove discharge air sensor, shown in Figure 1.

STEP 4:

Remove the return air access panel. Route the cable through the unit as shown . (See Figure 2). The short red and white wires will be used for the discharge air sensor.

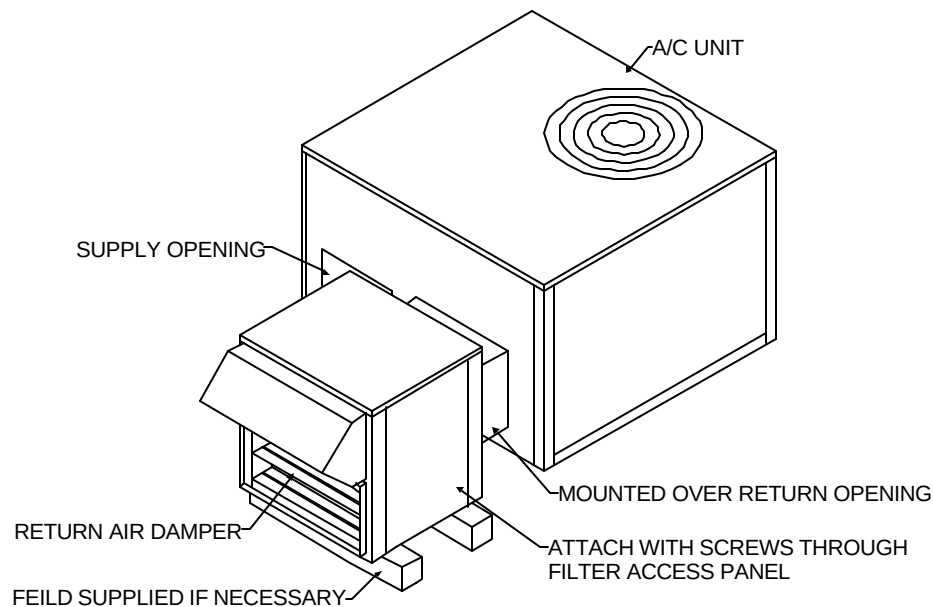


Figure 3

STEP 5:

Remove blower access panel. Install the discharge sensor in blower section of the unit. Drill a hole and mount the sensor 6 inches to the right and 6 inches up from the "Heat Sensor" (see Figure 2) as viewed from the blower access panel removed.

STEP 6:

Remove air filter from Economizer. Secure Economizer to unit using (8) screws as shown in Figure 3. Replace filter then filter access panel.

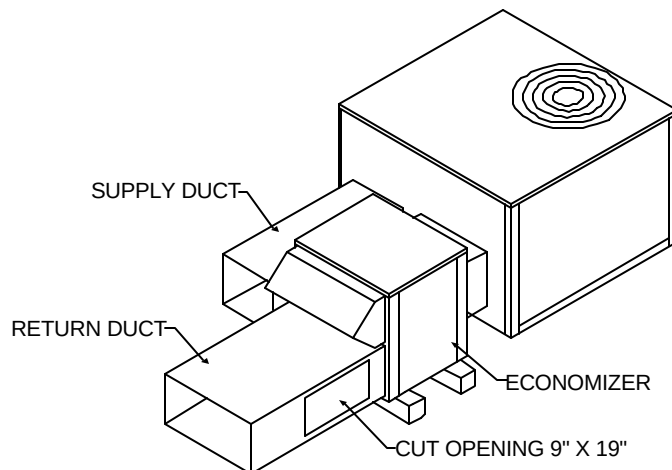


Figure 4

STEP 7:

Replace blower access panel on unit.

STEP 8:

Attach and seal weathertight return duct to Economizer.

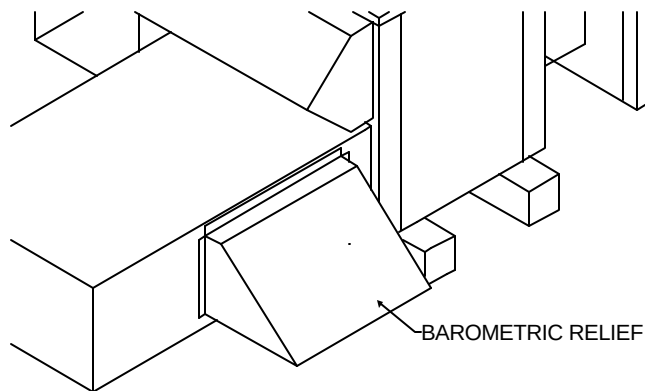


Figure 5

STEP 9:

If the barometric relief is to be installed cut a 19" x 9" hole in the return air duct near Economizer. (See Figure 4).

STEP 10:

Secure pressure relief damper near Economizer over hole in return air duct using (4) screws. Refer to Figure 5.

STEP 11:

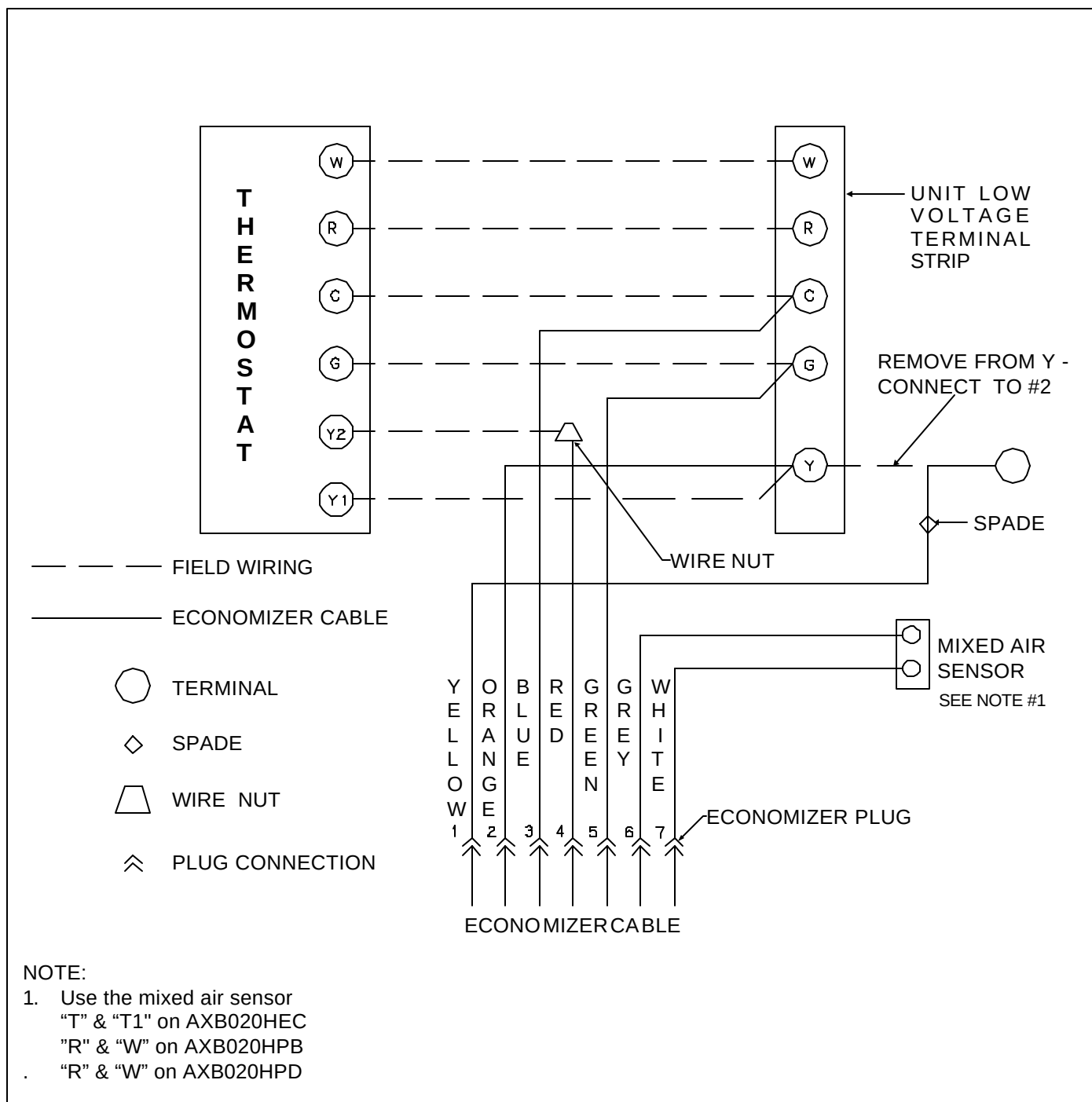
Place the adhesive backed wiring diagram on the low voltage compartment access door by the unit diagram. Reinstall blower access panel.

STEP 12:

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

STEP 13:

Turn power back on to the unit.



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The Hail Guard is designed to prevent damage to the condensor coil of the unit. The following list of parts are required:

	020	030
A - Rear Coil Guard Kit	1	1
B - Side Coil Guard Kit	1	2
C - Rear Top Panel	1	1
D - Side Top Panel	1	2
E - Vertical Side Panel	4	6
F - Hardware Package	1	1
#10- 16 x 1/2 Screw	16	24
Installation Instruction	1	1

STEP 1:

Check for correct model number and number of parts above:

STEP 2:

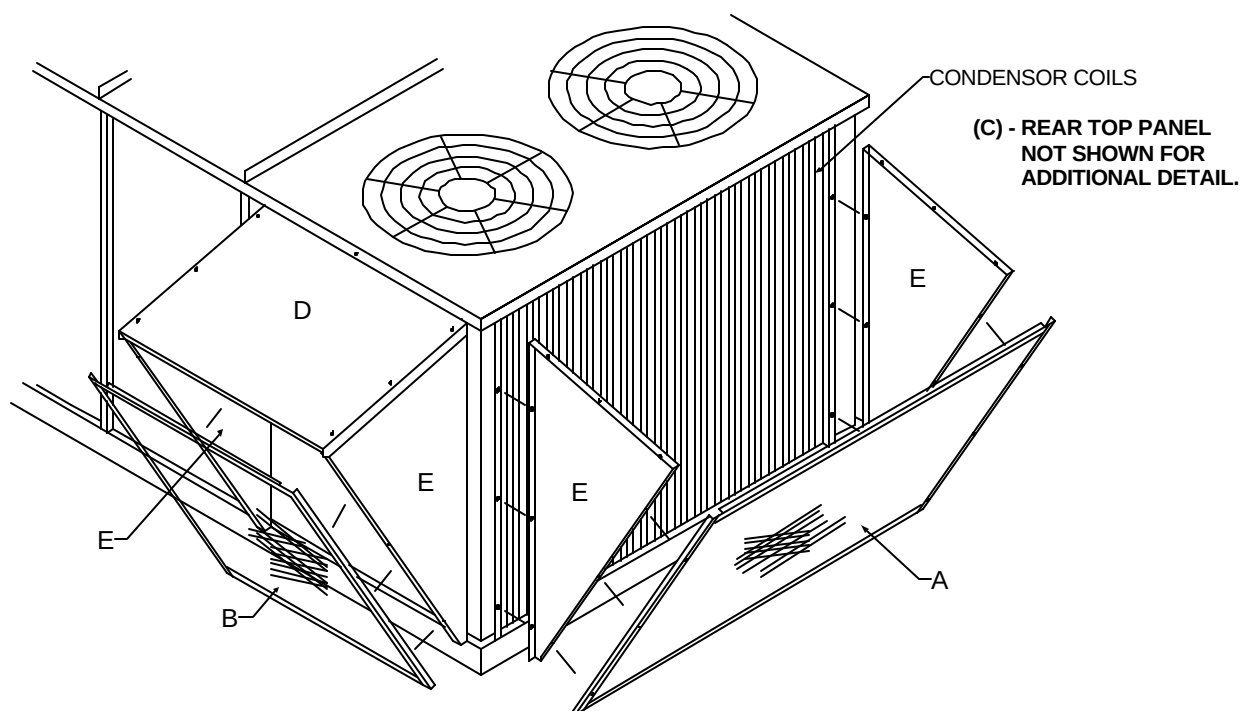
Take (E) vertical side panel and align holes with corner posts of unit and secure.

STEP 3:

Then secure (A) and (B) coil guard kits in between clips on vertical side panel and close clips to hold in position.

STEP 4:

Now secure the (C) rear top panel and (D) side top panel with the .8" flange under top of unit and 2" flange over coil guard kit.



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**INSTALLATION INSTRUCTIONS
MODEL AXB020 FKA
FILTER RACK**

STEP 1:

Check for correct number of parts. See list below:

- 1 ea. -Top Filter Bracket with Spacer
- 1 ea. -Bottom Filter Bracket with Spacer
- 1 ea. -Filter (18 X 25 X 1)
- 1 ea. -"U" Clip

STEP 2:

Remove return air access panel.

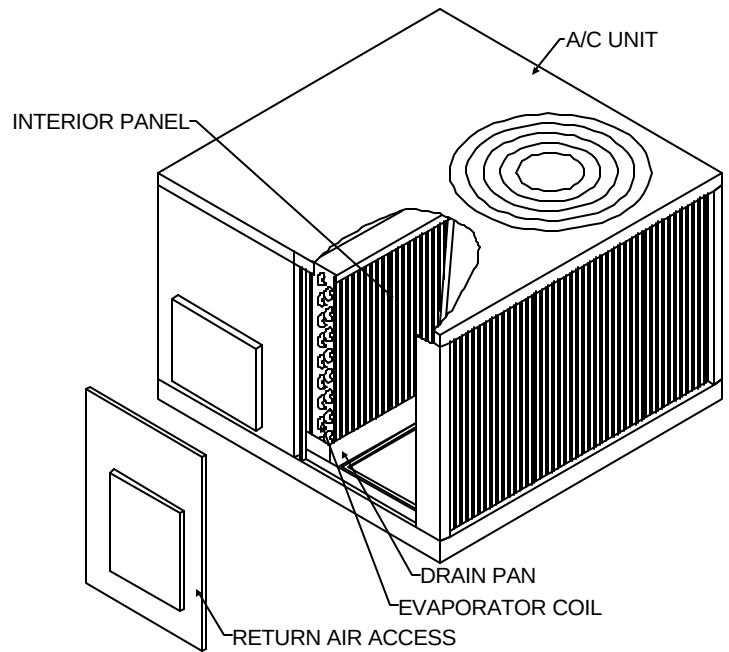


Figure 1

STEP 3:

Install top filter bracket by (1) inserting the top filter bracket top flange between the unit top and the interior panel. Push the "U" clip on the bracket and the coil as shown in Figure 2. For 2 inch filter remove filter spacer.

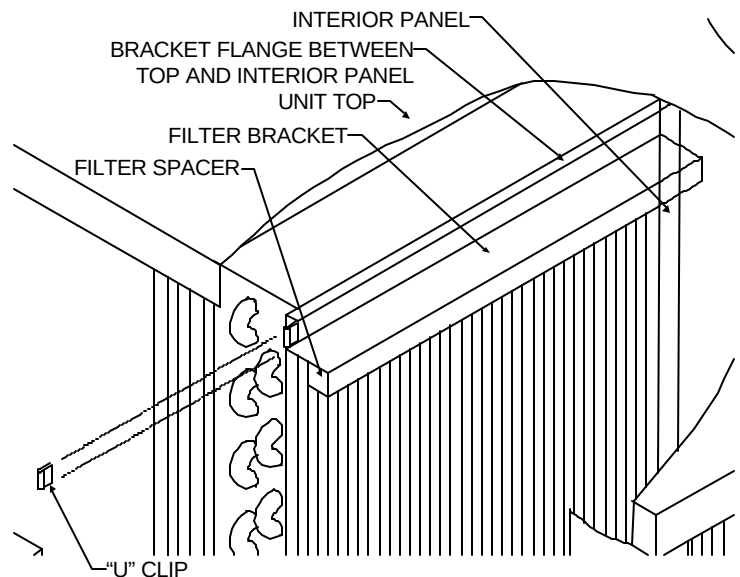


Figure 2

STEP 4:

Install bottom filter bracket. The bracket fits over the coil drain pan as shown in Figure 3. Remove filter spacer for 2" inch filter.

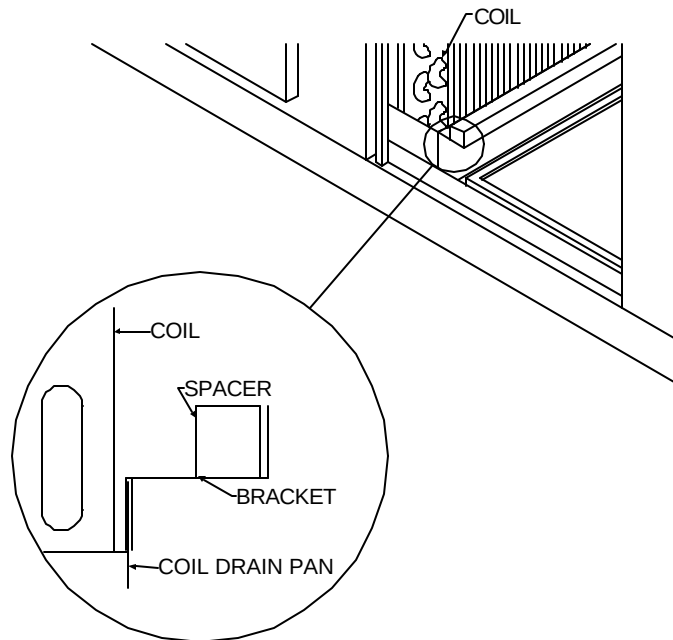


Figure 3

STEP 5:

Slide filter into the assembly. (See Figure 4).

STEP 6:

Replace return air access panel.

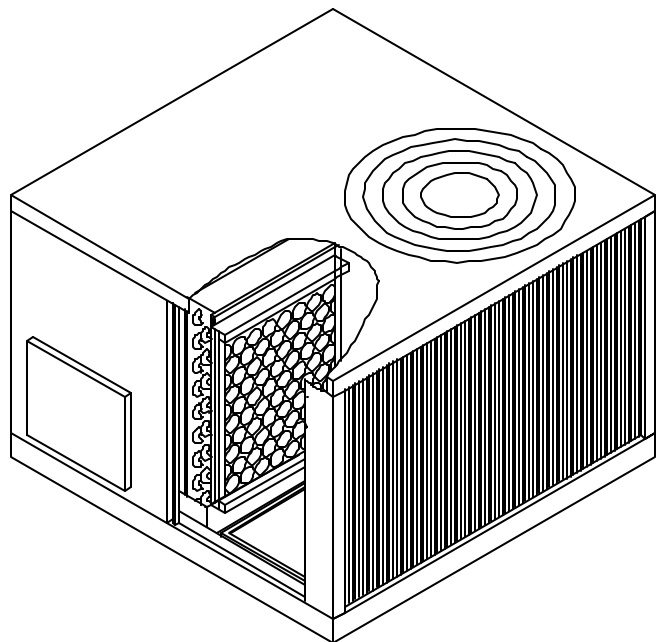


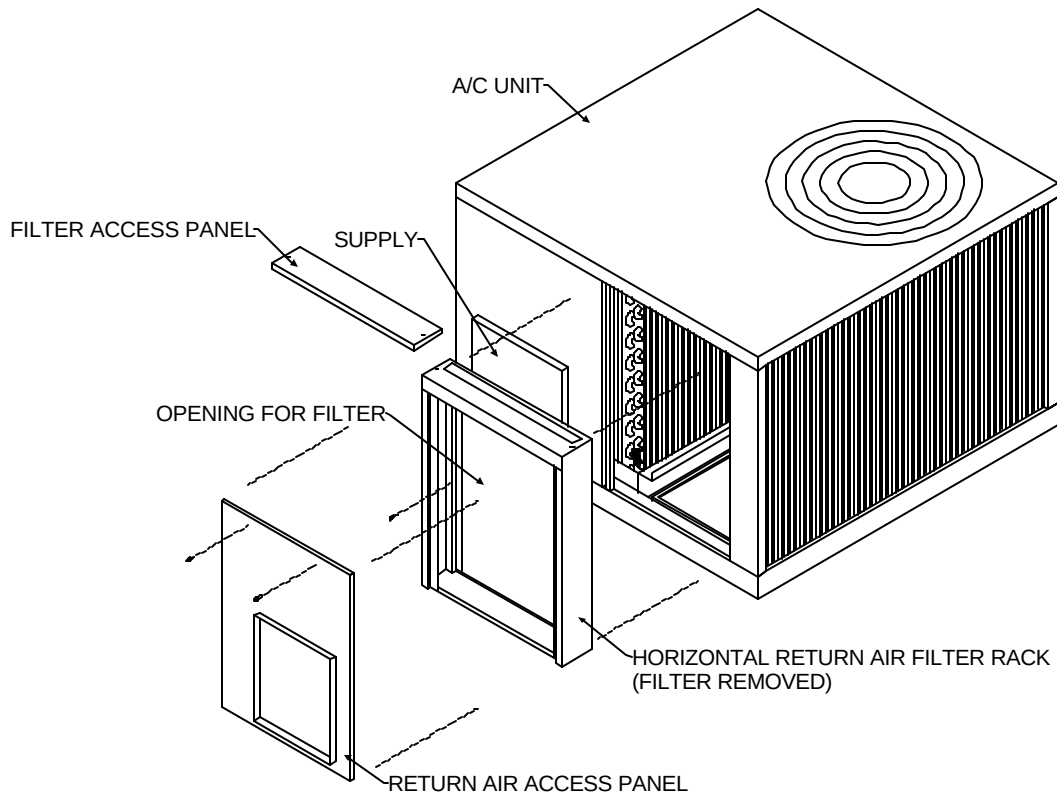
Figure 4

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Check for correct number of parts. See list below:

- 1 - Installation Instructions
- 1 - Filter Rack with Filter 20" x 25" x 1" (Throw away)
- 4 - Screws 10 x 16 x ½ Hex Washer



Step 1:

Remove (2) two screws on return air access panel and remove panel.

Step 2:

Remove filter access panel and remove air filter.

Step 3:

On the unit remove (2) two screws from both sides.

Step 4:

Place horizontal return air filter rack on the unit and replace the (2) two from step 3.

Step 5:

Slide air filter in the unit and replace filter access panel.

Step 6:

Replace return air panel on the horizontal return air filter rack.

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This Roof Curb is built to NRCA specifications and is constructed of 18 gauge galvanized steel with a full perimeter 1" X 4" wood nailer strip. Curb height is determined by the part number as listed below.

AXB030 CLA	=	8 inches high.
AXB030 CMA	=	14 inches high.
AXB030 CHA	=	24 inches high.

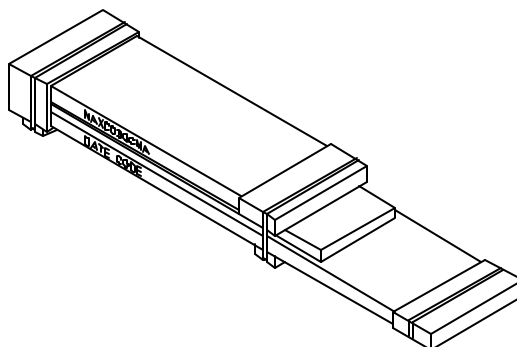


Figure 1

STEP 1:

Check for the correct number of parts. See list below.

1. 2 ea. Curb Sides - 67 $\frac{3}{4}$ " long **(A)**
2. 2 ea. End Panels - 42 $\frac{3}{4}$ " long **(B)**
3. 1 ea. Duct Support 39 $\frac{7}{8}$ " long **(C)**
4. 1 ea. Duct Support 48 $\frac{3}{8}$ " long **(D)**
5. 1 ea. Duct Support 23 $\frac{1}{4}$ " long **(E)**
6. 1 ea. Insulated Pans 39 $\frac{5}{8}$ " long **(F)**
7. 1 ea. Insulated Pans 48 $\frac{3}{8}$ " long **(G)**
8. 2 ea. Gasket $\frac{3}{4}$ " x 1 $\frac{1}{4}$ " x 14' (28 ft. total)
9. 1 ea. Hardware Package contains:

18 ea. #10 X $\frac{1}{2}$ " Hex Screws	
4 ea. "Hinge" Pins $\frac{3}{16}$ " x 7 $\frac{1}{2}$ "	(8 inch high)
13 $\frac{1}{2}$ "	(14 inch high)
23 $\frac{1}{2}$ "	(24 inch high)

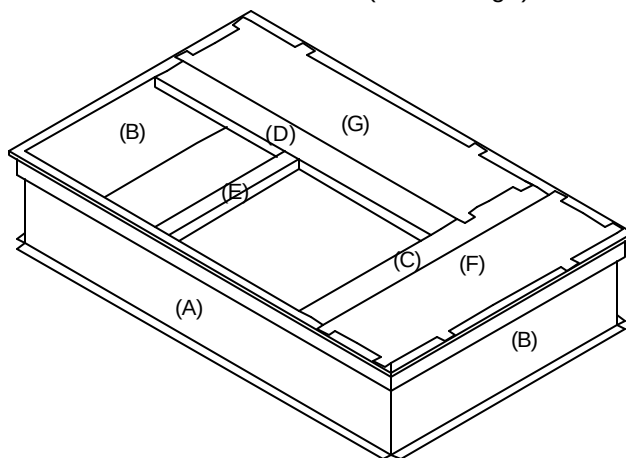
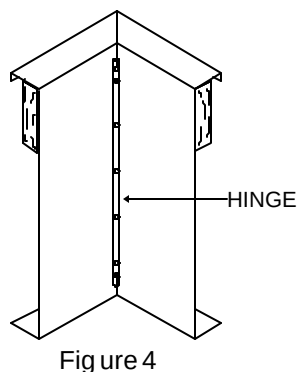
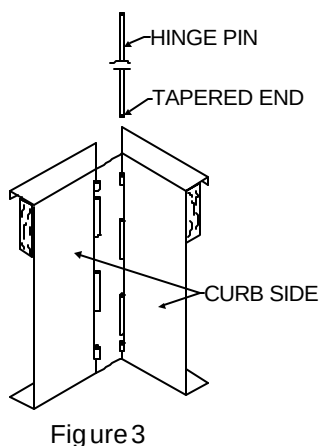


Figure 2

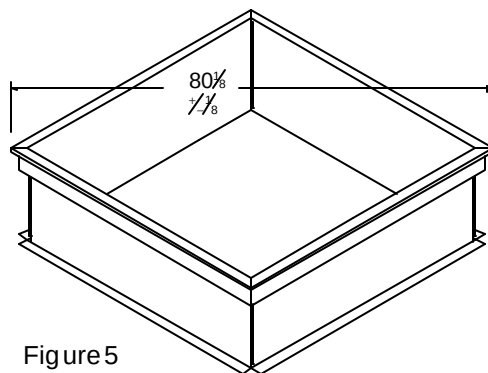
STEP 2:

Layout the curb pieces before assembly to insure that all the necessary pieces are included.



STEP 3:

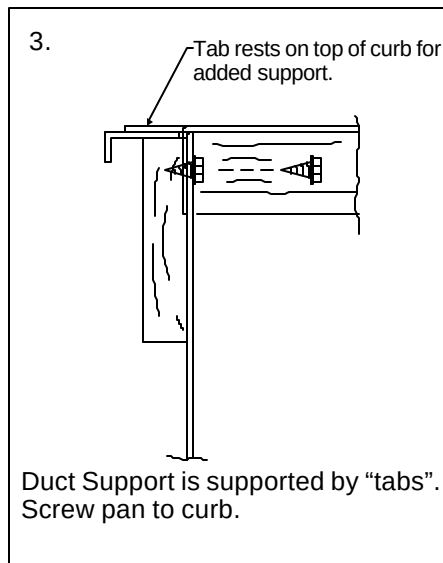
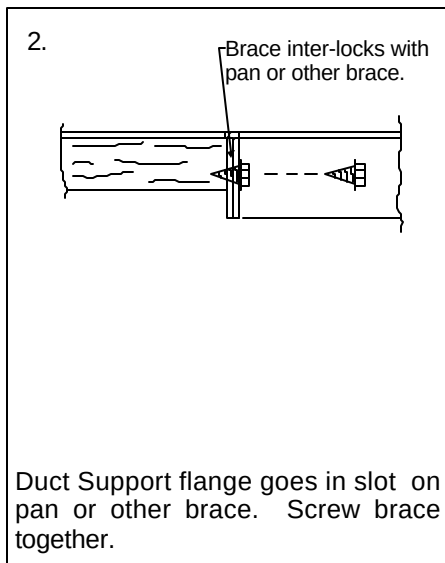
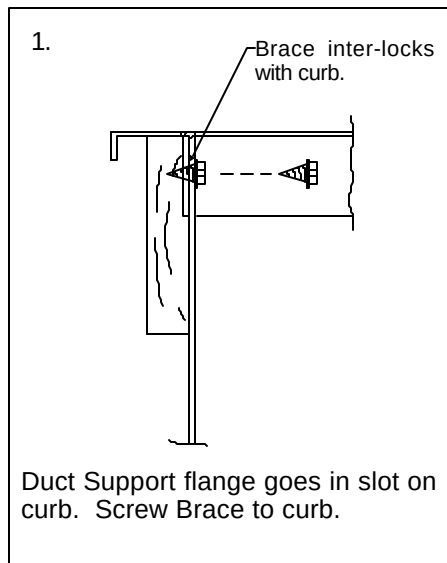
Corner Assembly: Align each curb side as shown in (Figure 3). Using a hammer, drive the curb “hinge” pin down until the top of the pin is below the top of the curb (Figure 4).



STEP 4:

After the four corners are assembled; the curb should be checked to be sure it is in “square”. Do this by measuring diagonally from each opposite corner. The two measurements should be the same for each direction.

DETAILS



The AXB030 C*A can now have the duct support and the insulated pans installed.

STEP 5:

Install duct support (C) on the curb as shown with the roof opening over the desired duct location. See "DETAILS #1"

STEP 6:

Place the duct support (D) on the curb and the duct support (C), making sure that it is in the right location. See "DETAILS #1 and #2"

STEP 7:

Place the duct support (E) on the curb and duct support (D). See "DETAILS #1 and #2"

STEP 8:

Install the insulated pans (F). See "DETAILS #3"

STEP 9:

If the curb is being assembled & moved to another location, attach the brace & pans to the curb as shown in the "DETAILS".

STEP 10:

Place the $\frac{3}{4}$ " X $1\frac{1}{4}$ " gasket on the top edges of the curb, duct support & pan.

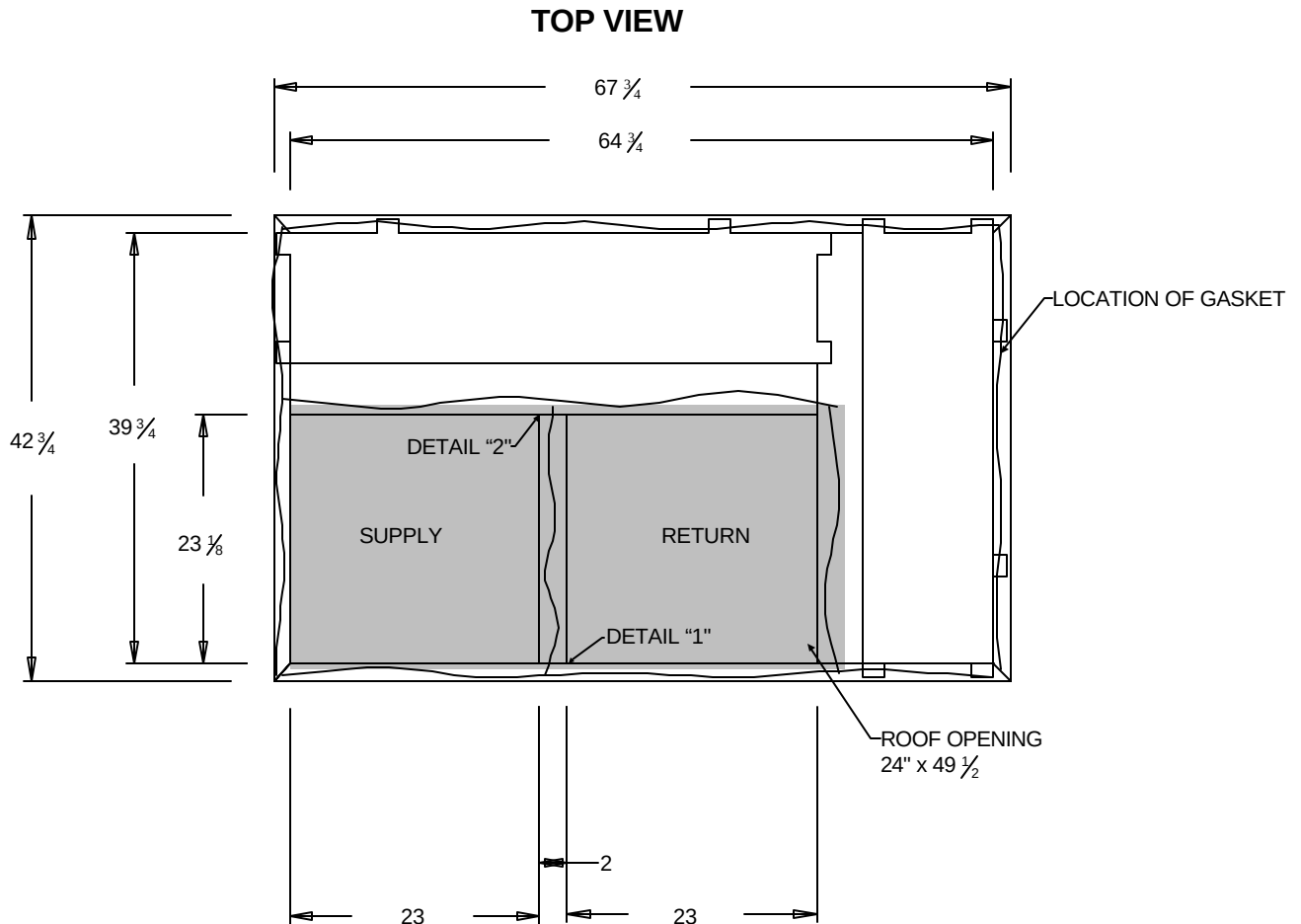
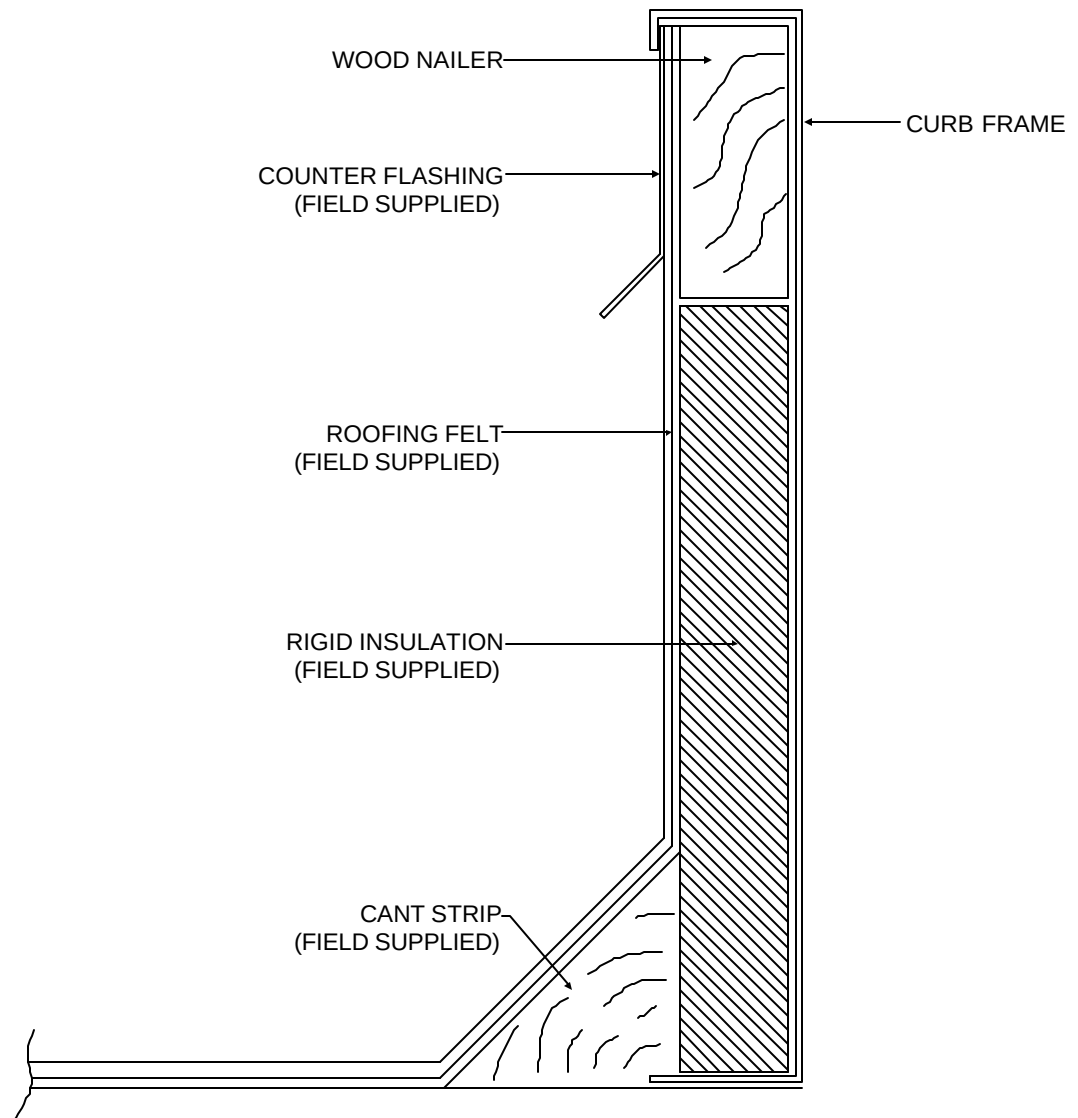


Figure 6

**ROOFING
INSTRUCTIONS**



INTERNATIONAL COMFORT PRODUCTS

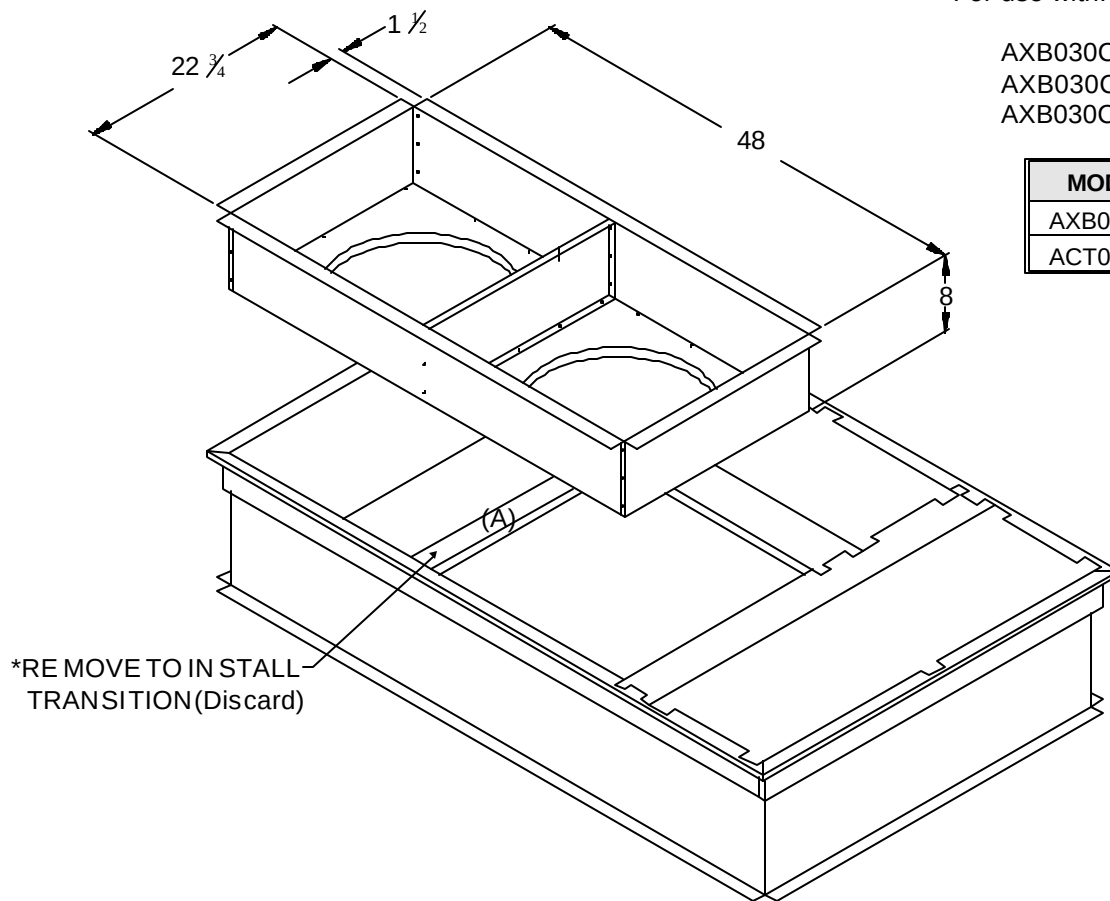
651 HEIL-QUAKER AVE
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37091
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FAX (931) 270-4199

INSTALLATION INSTRUCTIONS MODEL AXB030CTA / ACT03FB0A CONCENTRIC CURB TRANSITION

The Concentric Curb Transition is designed to drop into the curb and convert the square duct unit connections to round duct. For use with:

AXB030CLA
AXB030CMA
AXB030CHA

MODEL#	DUCT SIZE
AXB030CTA	18"
ACT03FB0A	20"



STEP 1:

Check for correct part number and dimensions listed above:

STEP 2:

Attach duct to transition duct connections.

STEP 3:

Install transition in supply/return opening in roof curb.

STEP 4:

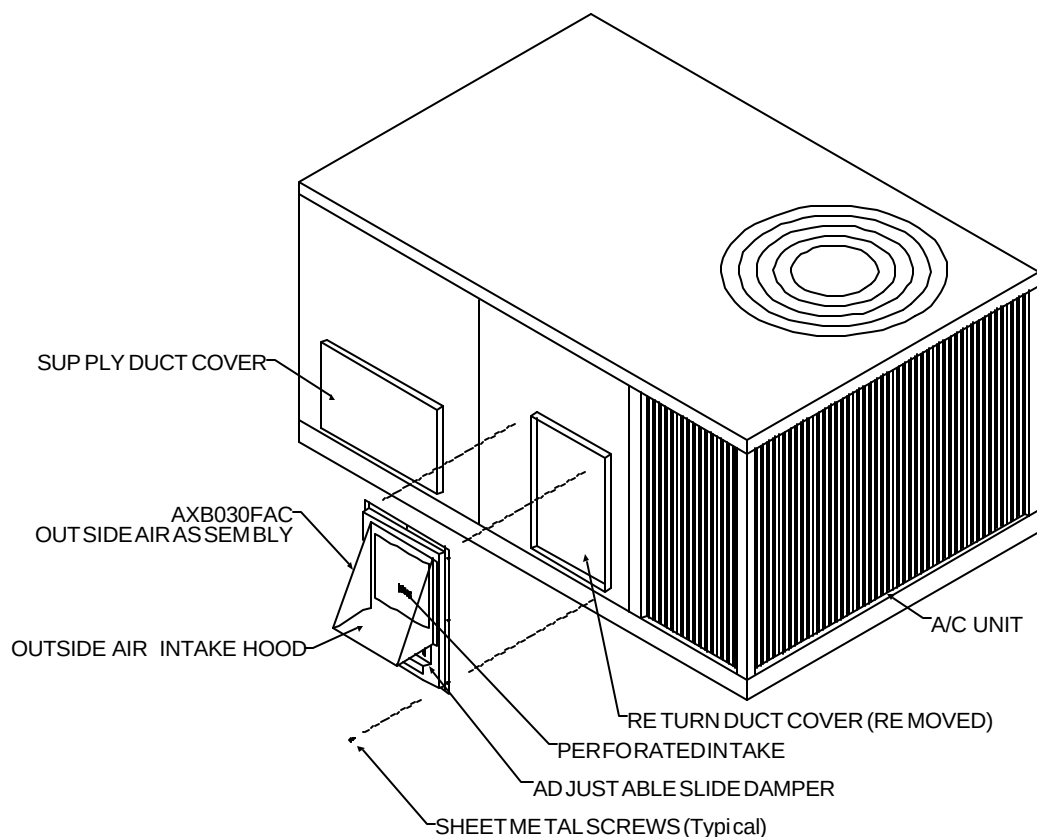
Place $\frac{3}{4}$ " X $1\frac{1}{4}$ " gasket (included with the curb only) as instructed in roof curb installation sheet.

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The 0-25% manual outside air system is designed to replace the unit duct cover. No drilling on the unit or field assembly is required. The amount of outside air is controlled by simply adjusting the slide damper. The panel is fully insulated.

**STEP 1:**

Check for correct number of parts. See list below:

1 ea. - Outside Air Intake panel assembly with hood and slide damper.

STEP 2:

Remove return air duct cover from unit, and save the screws.

STEP 3:

Install outside air assembly as shown in Figure 1 over duct opening with the screws removed in Step 2.

STEP 4:

Adjust the slide damper to the desired position.

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The 0-25% manual outside air system is designed to replace the unit duct cover. No drilling on the unit or field assembly is required. A 2-position control motor that opens the intake damper when the blower is energized. The amount of air is controlled by the adjustable slide damper. The intake panel is fully insulated..

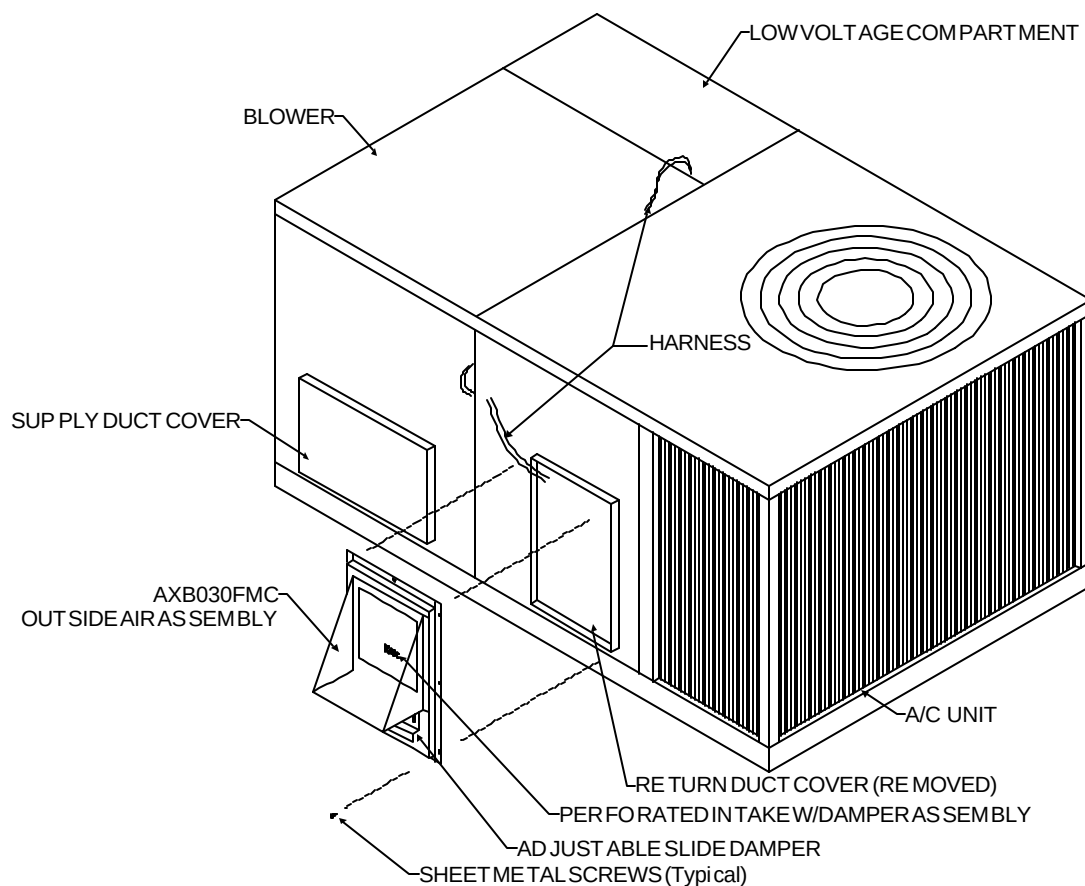


FIGURE 1

STEP 1:

Check for correct number of parts. See list below:

- 1 ea. - Outside Air Intake damper assembly with hood and slide damper.

STEP 2:

Remove return air duct cover from unit, and save the screws.

STEP 3:

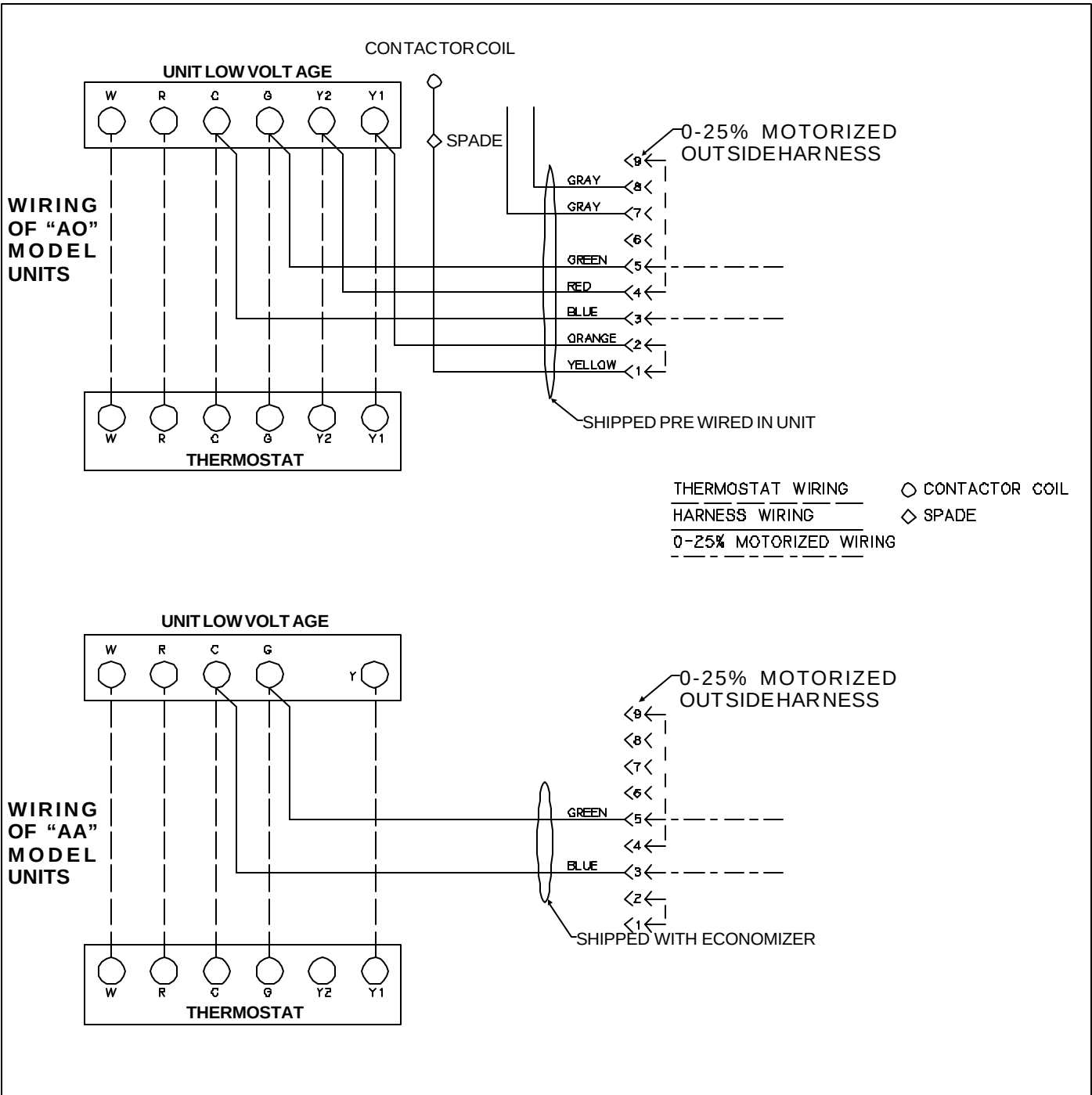
Remove blower access panel. Route the cable through the panel next to coil, then along division wall behind blower over division wall to low voltage.

STEP 4:

Install outside air assembly as shown in Figure 1 over duct opening with the screws removed in Step 2.

STEP 5:

Adjust the slide damper to the desired position.



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AXB030ECA Economizers are used with PGAA/AO 048-076 units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

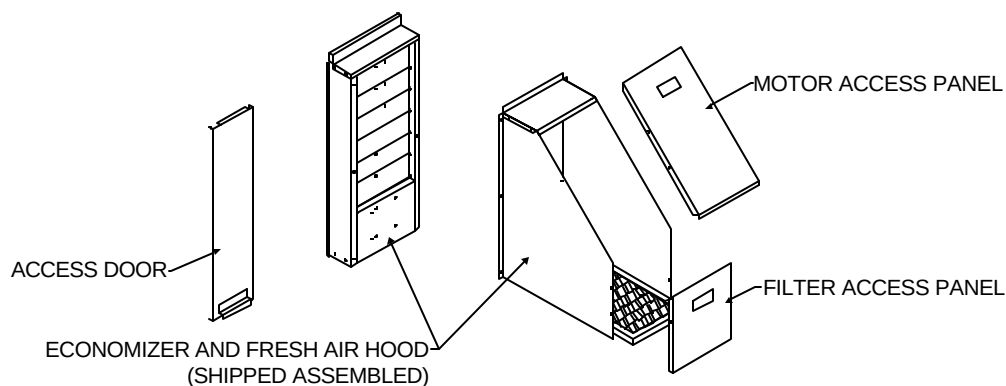


Figure 1

STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Filter Access Door
- 1 - Outdoor Air Hood (Attached to Economizer)
- 1 - Wiring Diagram Sticker
- 4 - #10 - 16 x $\frac{1}{2}$ Hex Tec Screws

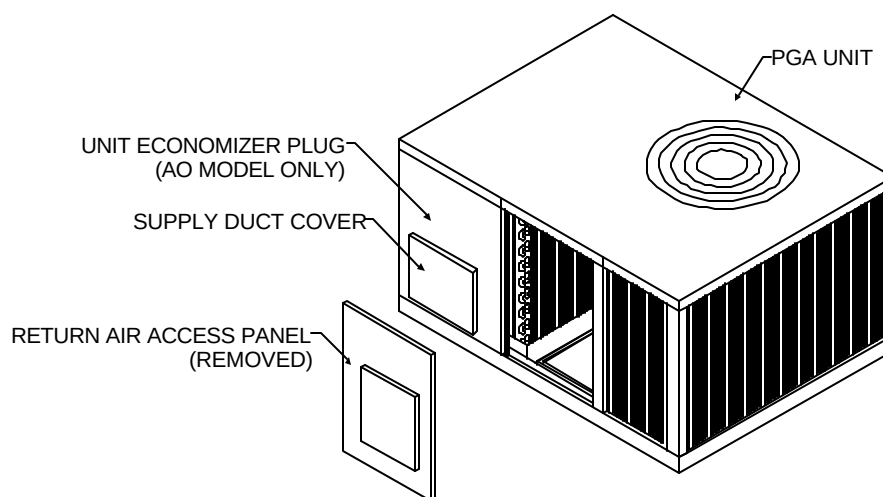


Figure 2

STEP 2:

Remove discharge air sensor from Economizer, shown in Figure 1.

STEP 3:

Disconnect all power to unit.

STEP 4:

Remove the return air access panel. (See Figure 2).

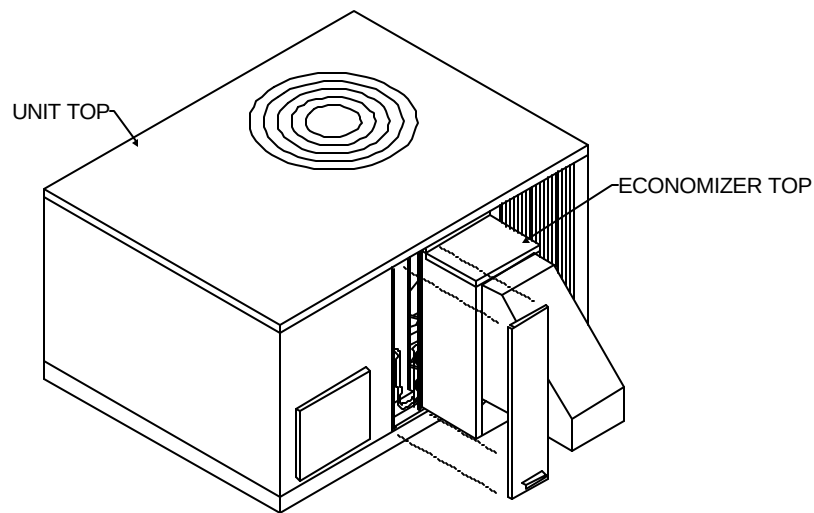


Figure 3

STEP 5:

Loosen the screws on the unit top around the return opening. (See Figure 3). Remove screws and Economizer top and slide into unit over return opening.

STEP 6:

Once the Economizer is in place take the top of the Economizer and tilt under the unit top. When Economizer top is in original position replace screws to secure. (See Figure 4). Retighten screws in unit top that were loosened in Step 5.

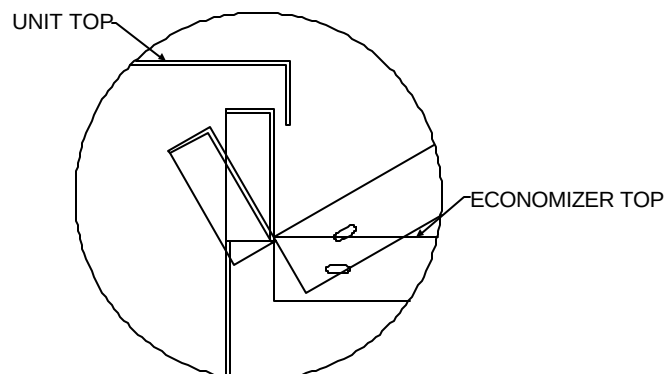


Figure 4

STEP 7:

Route the cable through the unit on ("AA" models only) as shown . (See Figure 5). The short red and white wires will be used for the discharge air sensor.

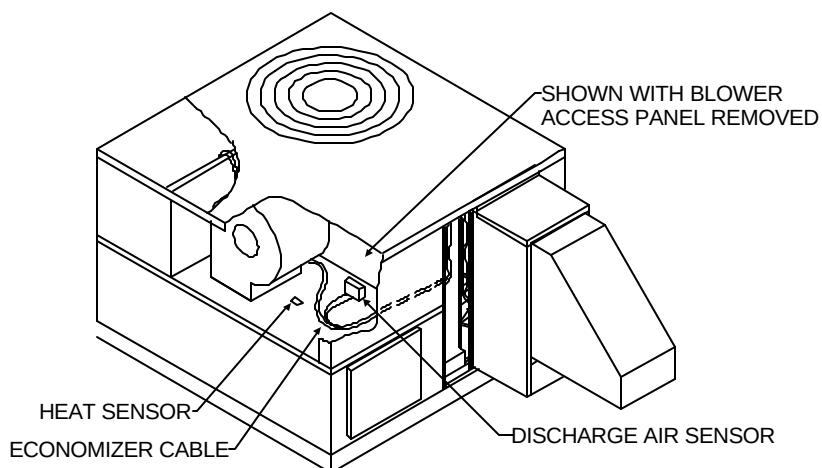


Figure 5

STEP 8:

Remove blower access panel. Install the discharge sensor in blower section of the unit. Drill a hole and mount the sensor 6 inches to the right and 6 inches up from the "Heat Sensor" (see Figure 5) as viewed from the blower access panel removed.

STEP 9:

Place the adhesive backed wiring diagram on the low voltage compartment access door by the unit diagram. Reinstall blower access panel.

STEP 10:

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

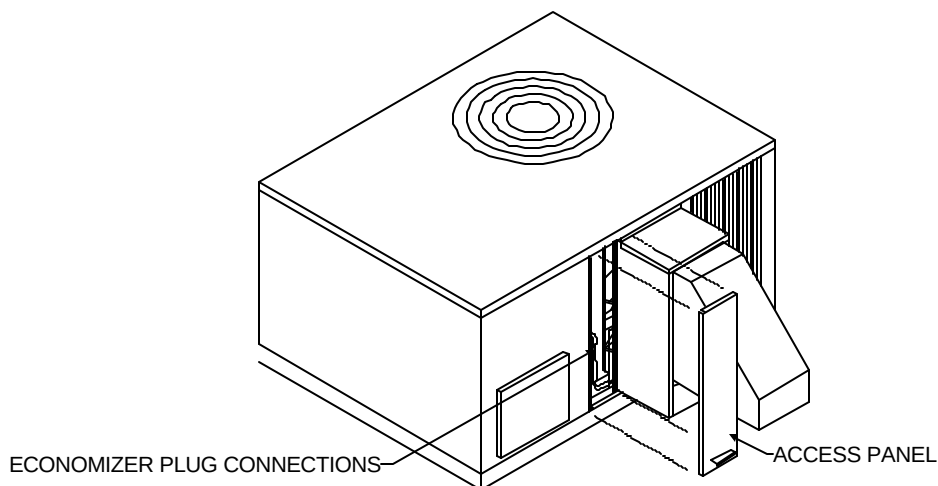


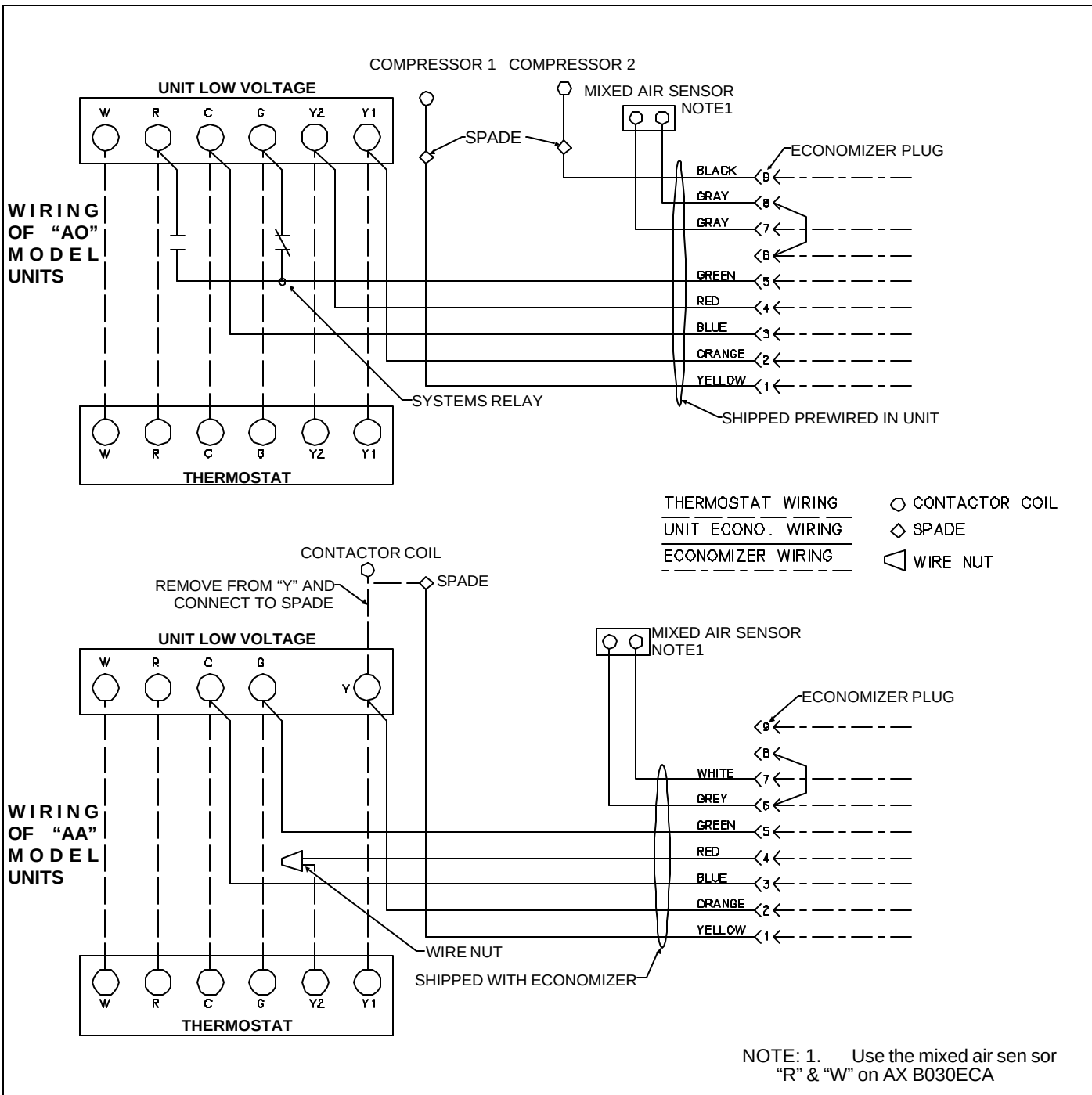
Figure 6

STEP 11:

Install access panel as shown in Figure 6.

STEP 12:

Turn power back on to the unit.



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AXB030EMC/EPB/EPD Economizers are used with PGAA/AO 048-076 units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

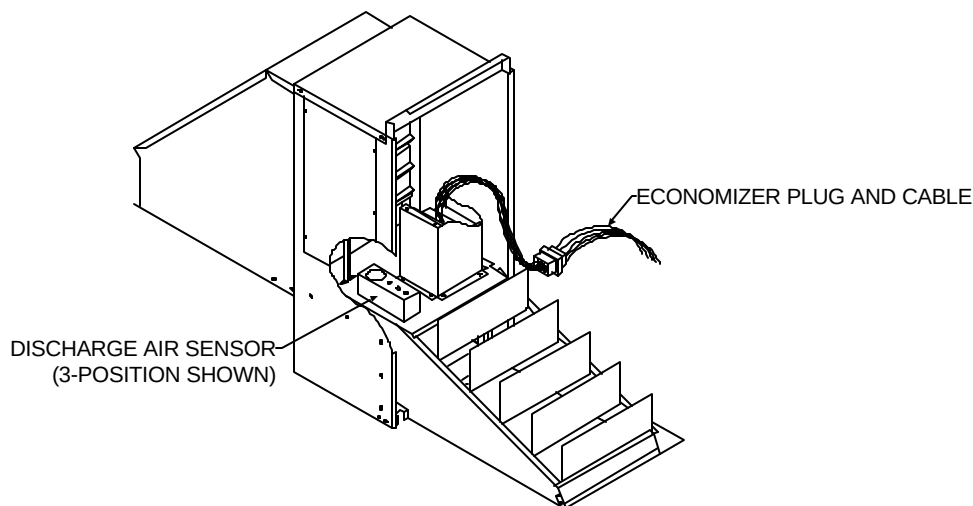


Figure 1

STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Filter Access Door
- 1 - Outdoor Air Hood (Attached to Economizer)
- 1 - Wiring Diagram Sticker
- 4 - #10 - 16 x ½ Hex Tec Screws

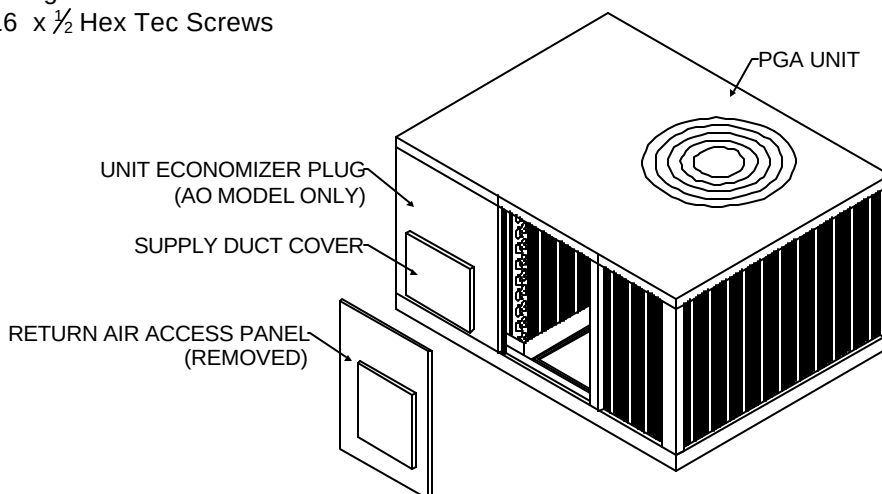


Figure 2

STEP 2:

Remove discharge air sensor from Economizer, shown in Figure 1.

STEP 3:

Disconnect all power to unit.

STEP 4:

Remove the return air access panel. (See Figure 2).

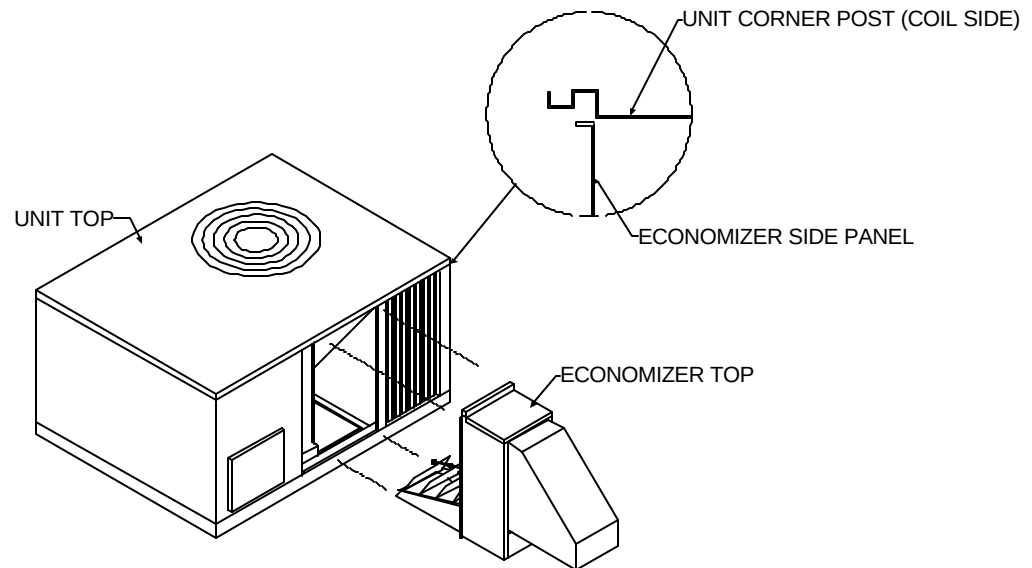


Figure 3

STEP 5:

Loosen the screws on the unit top around the return opening. (See Figure 3). Remove screws and Economizer top and slide into unit over return opening.

STEP 6:

Once the Economizer is in place take the top of the Economizer and tilt under the unit top. When Economizer top is in original position replace screws to secure. (See Figure 4). Retighten screws in unit top that were loosened in Step 5.

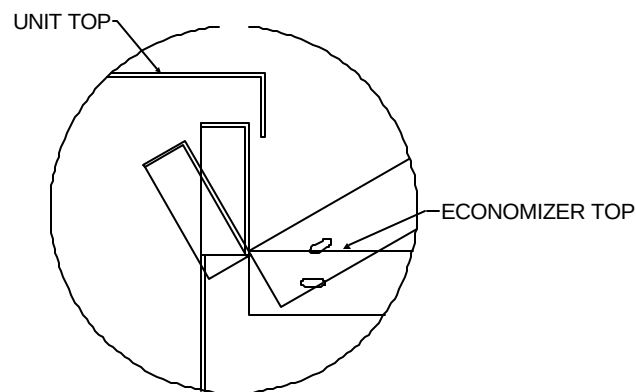


Figure 4

STEP 7:

Route the cable through the unit on ("AA" models only) as shown . (See Figure 5). The short red and white wires will be used for the discharge air sensor.

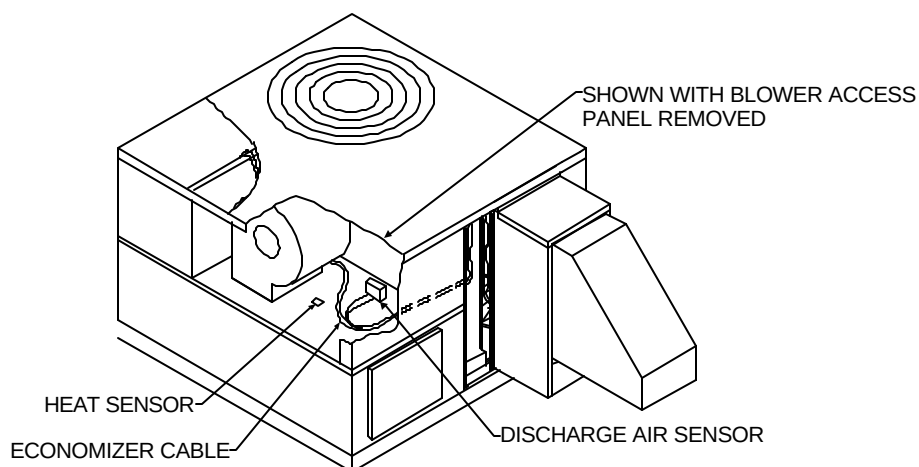


Figure 5

STEP 8:

Remove blower access panel. Install the discharge sensor in blower section of the unit. Drill a hole and mount the sensor 6 inches to the right and 6 inches up from the "Heat Sensor" (see Figure 5) as viewed from the blower access panel removed.

STEP 9:

Place the adhesive backed wiring diagram on the low voltage compartment access door by the unit diagram. Reinstall blower access panel.

STEP 10:

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

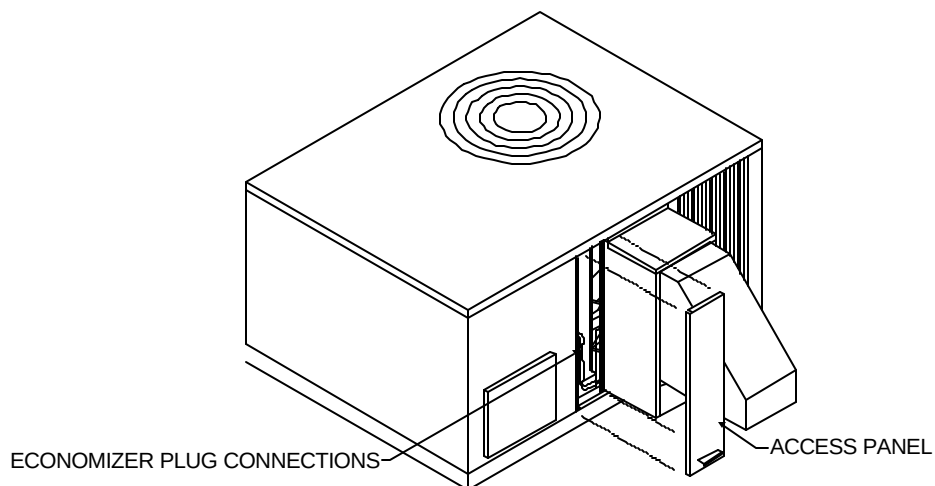


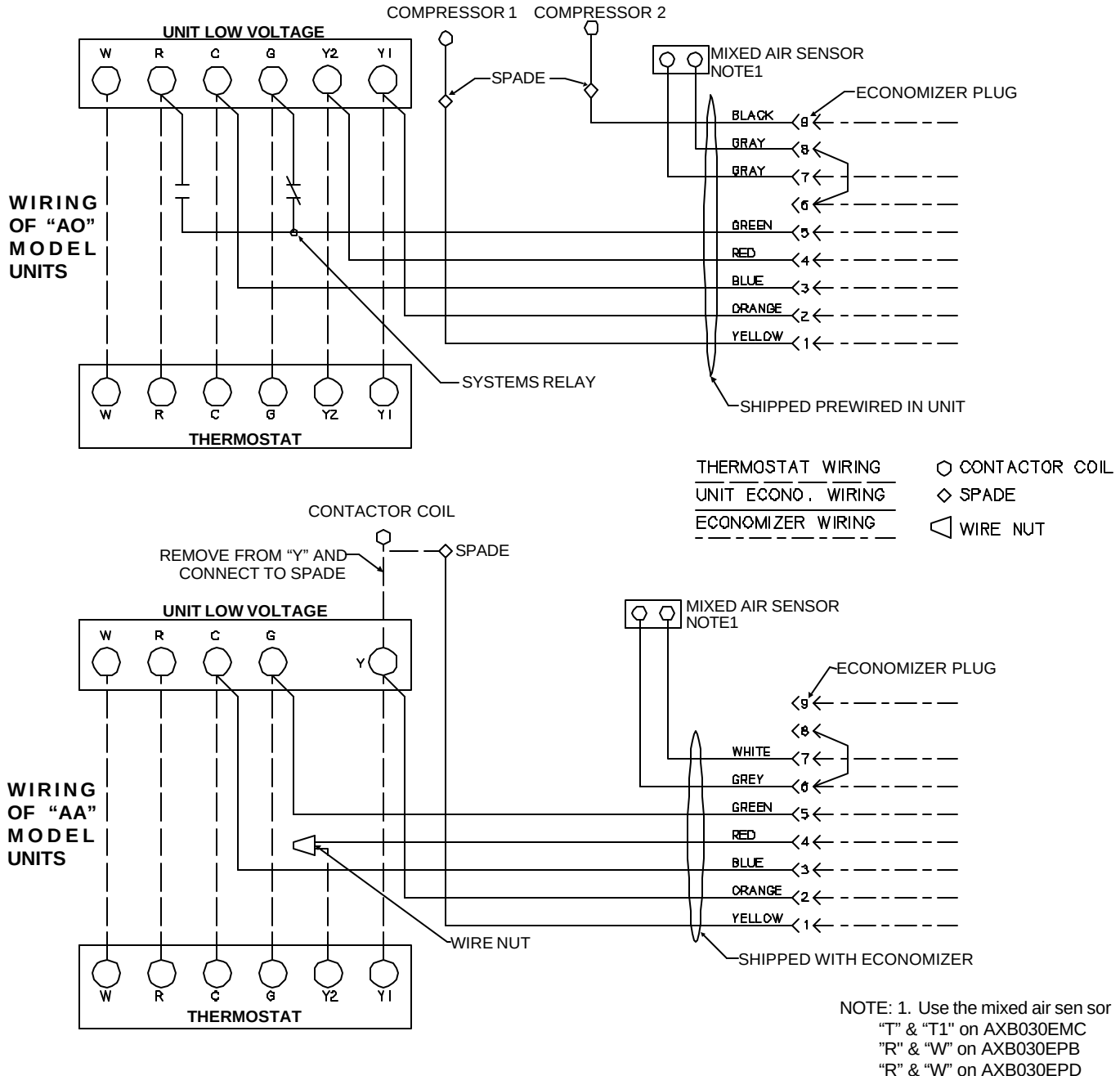
Figure 6

STEP 11:

Install access panel as shown in Figure 6.

STEP 12:

Turn power back on to the unit.



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AXB030HEC/HPB/HPD Economizers are used with PGAA/AO 048-076 units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

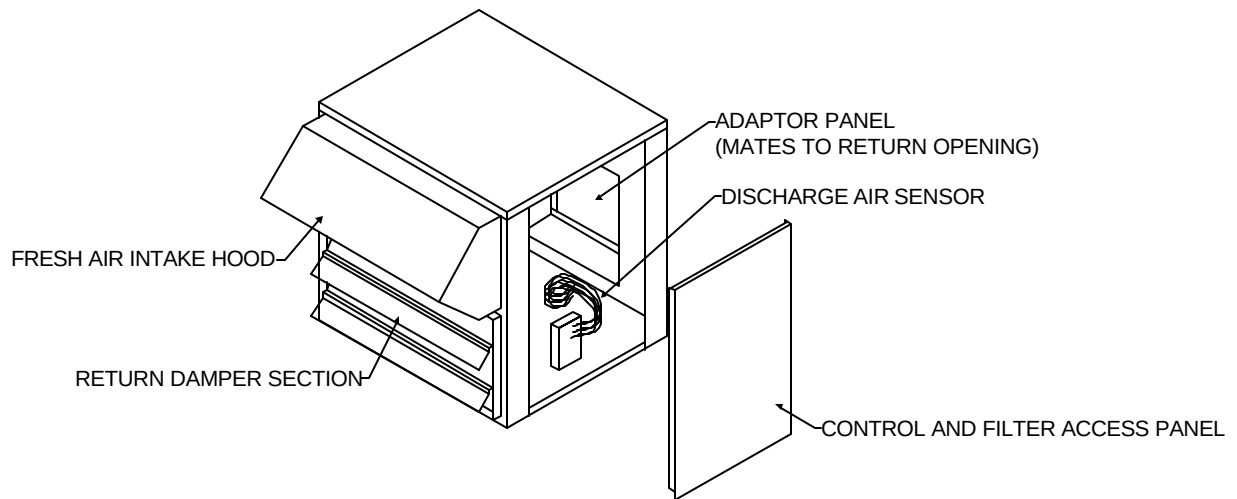


Figure 1

STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Relief Hood
- 1 - Wiring Diagram Sticker
- 4 - #10 - 16 x 1/2 Hex Tec Screws

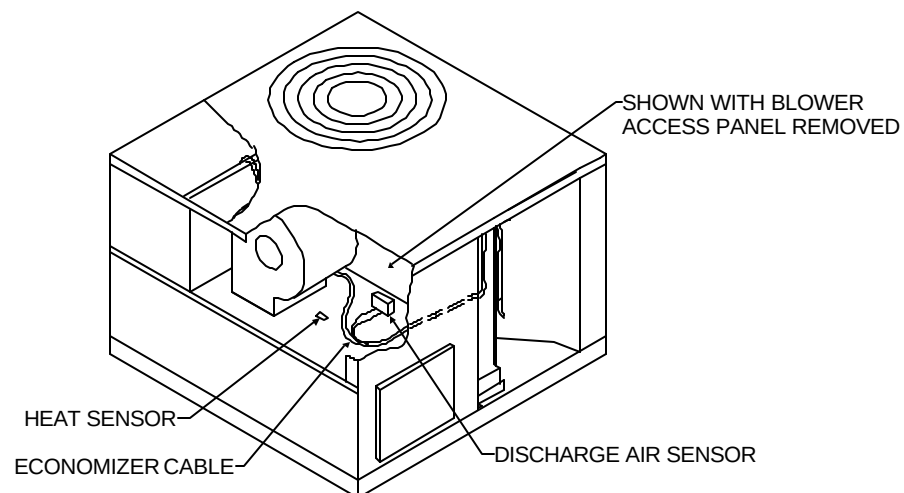


Figure 2

STEP 2:

Disconnect all power to unit.

STEP 3:

Remove discharge air sensor, shown in Figure 1.

STEP 4:

Remove the return air access panel. Route the cable through the unit on ("AA" models only) as shown. (See Figure 2). The short red and white wires will be used for the discharge air sensor.

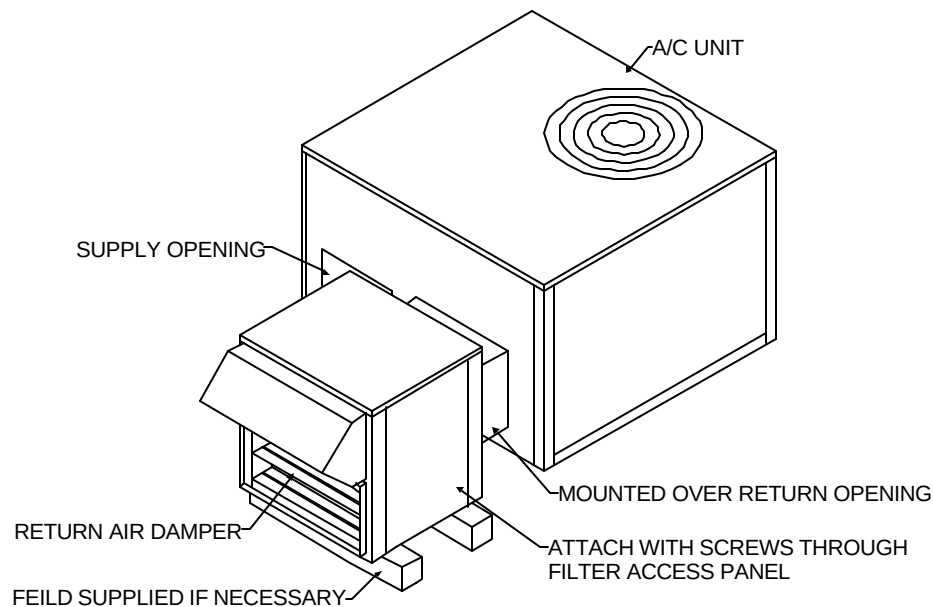


Figure 3

STEP 5:

Remove blower access panel. Install the discharge sensor in blower section of the unit. Drill a hole and mount the sensor 6 inches to the right and 6 inches up from the "Heat Sensor" (see Figure 2) as viewed from the blower access panel removed.

STEP 6:

Remove air filter from Economizer. Secure Economizer to unit using (8) screws as shown in Figure 3. Replace filter then filter access panel.

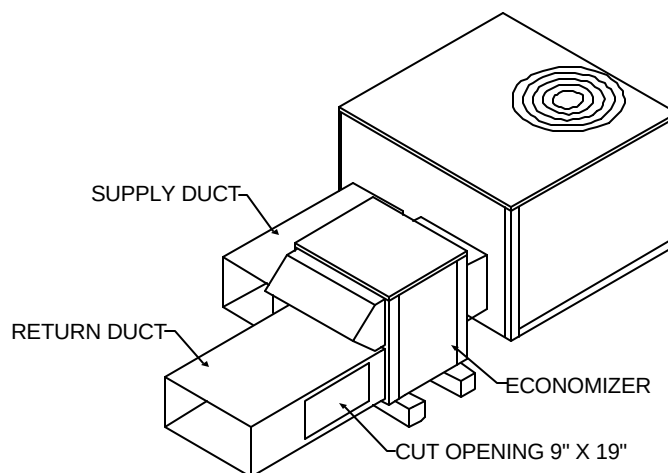


Figure 4

STEP 7:

Replace blower access panel on unit.

STEP 8:

Attach and seal weathertight return duct to Economizer.

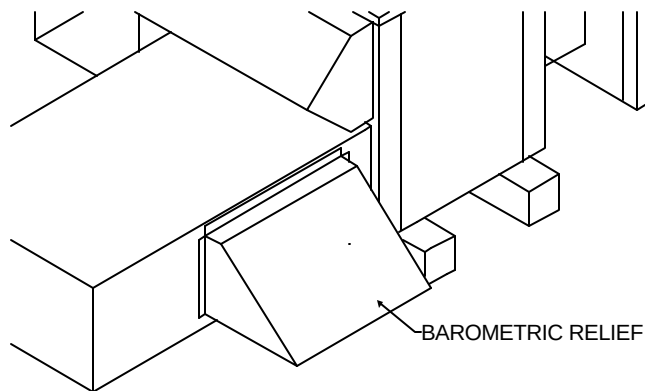


Figure 5

STEP 9:

If the barometric relief is to be installed cut a 19" x 9" hole in the return air duct near Economizer. (See Figure 4).

STEP 10:

Secure pressure relief damper near Economizer over hole in return air duct using (4) screws. Refer to Figure 5.

STEP 11:

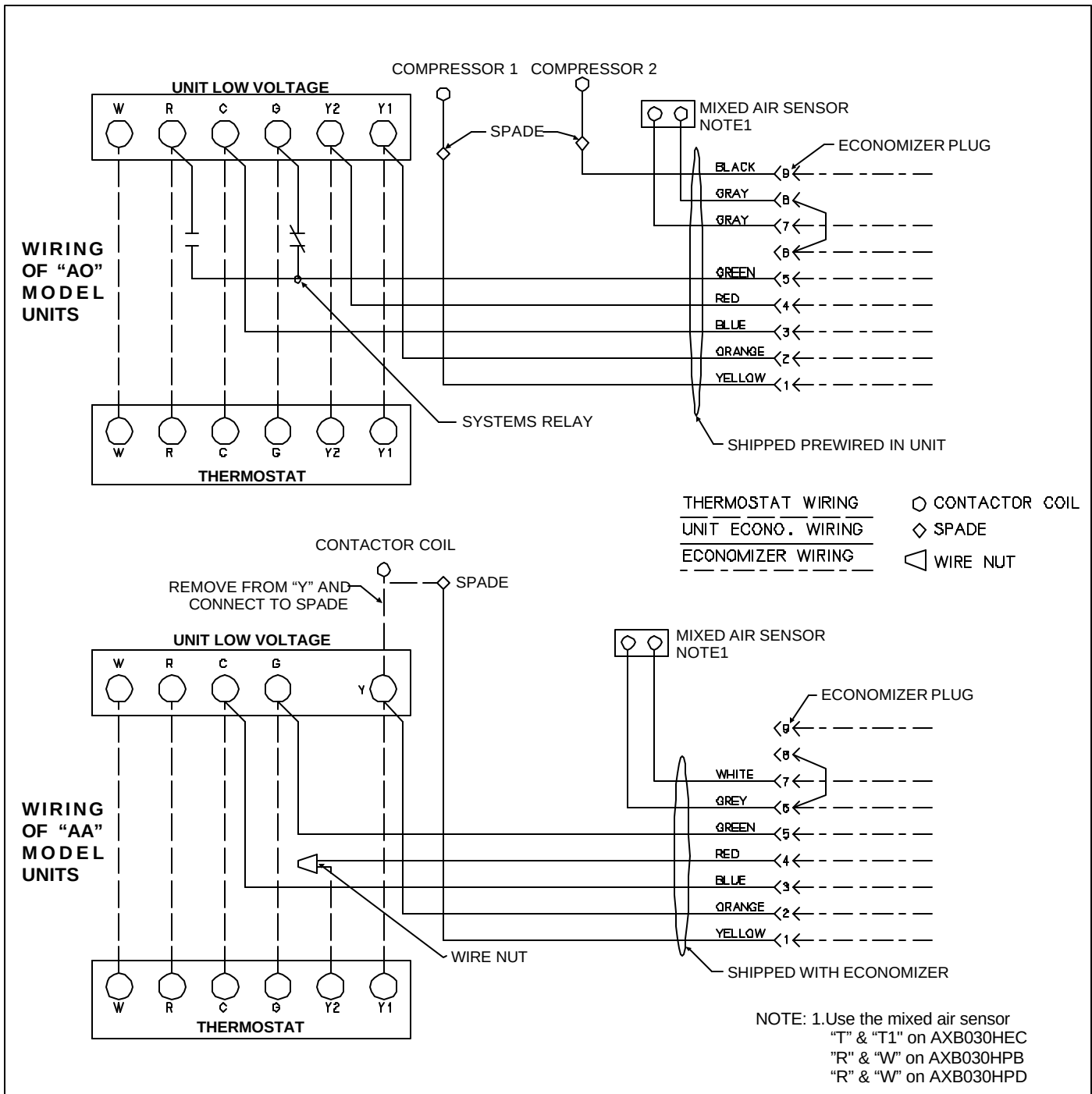
Place the adhesive backed wiring diagram on the low voltage compartment access door by the unit diagram. Reinstall blower access panel.

STEP 12:

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

STEP 13:

Turn power back on to the unit.



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The Hail Guard is designed to prevent damage to the condensor coil of the unit. The following list of parts are required:

	020	030
A - Rear Coil Guard Kit	1	1
B - Side Coil Guard Kit	1	2
C - Rear Top Panel	1	1
D - Side Top Panel	1	2
E - Vertical Side Panel	4	6
F - Hardware Package	1	1
#10- 16 x 1/2 Screw	16	24
Installation Instruction	1	1

STEP 1:

Check for correct model number and number of parts above:

STEP 2:

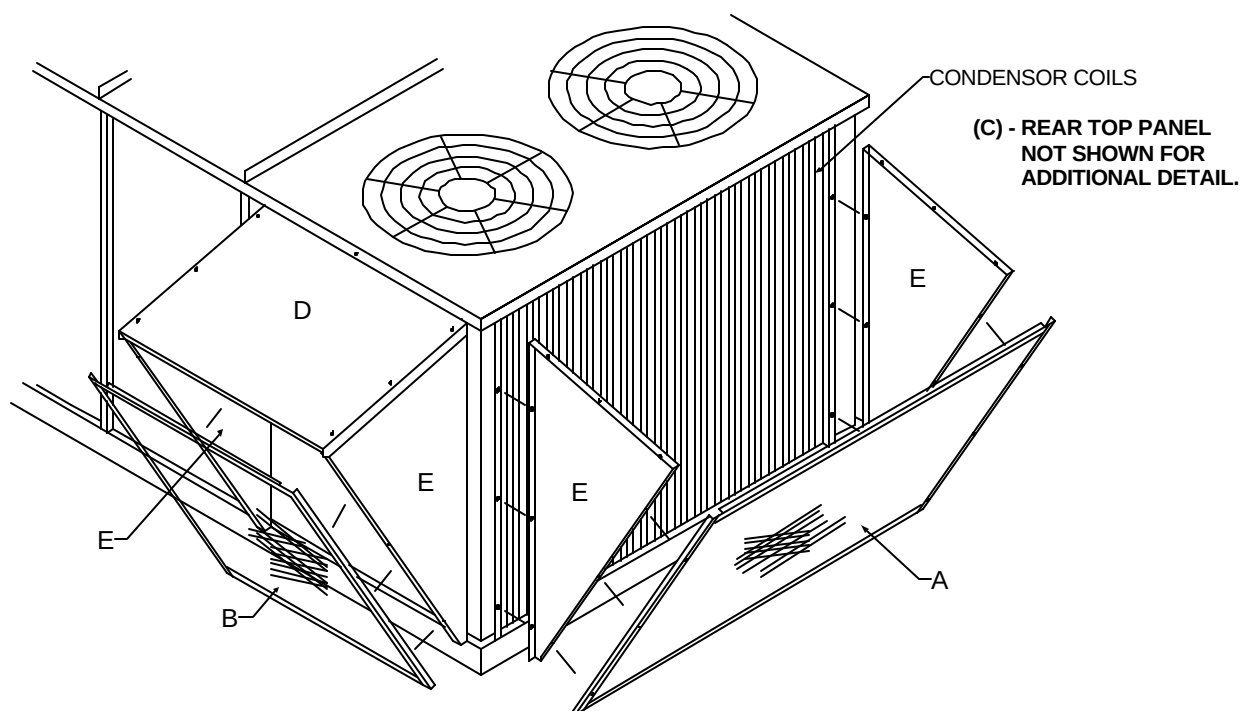
Take (E) vertical side panel and align holes with corner posts of unit and secure.

STEP 3:

Then secure (A) and (B) coil guard kits in between clips on vertical side panel and close clips to hold in position.

STEP 4:

Now secure the (C) rear top panel and (D) side top panel with the .8" flange under top of unit and 2" flange over coil guard kit.



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This Roof Curb is built to NRCA specifications and is constructed of 18 gauge galvanized steel with a full perimeter 1" X 4" wood nailer strip. Curb height is determined by the part number as listed below.

AXB040 CLA = 8 inches high.
AXB040 CMA = 14 inches high.
AXB040 CHA = 24 inches high.

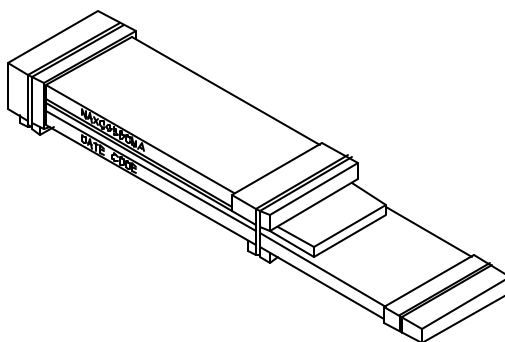


Figure 1

STEP 1:

Check for the correct number of parts. See list below.

1. 2 ea. Curb Sides - 84.150" long **(A)**
2. 2 ea. End Panels - 51.000" long **(B)**
3. 1 ea. Duct Support 48.000" long **(C)**
4. 2 ea. Duct Support 23.750" long **(D)**
5. 1 ea. Duct Support 48.000" long **(E)**
6. 2 ea. Insulated Pans 48.000" long **(F)**
7. 3 ea. Gasket $\frac{3}{4}$ " x $1\frac{1}{4}$ " x 14' (42 ft. total)
8. 1 ea. Hardware Package contains:

18 ea. #10 X $\frac{1}{2}$ " Hex Screws	
4 ea. "Hinge" Pins $\frac{3}{16}$ " x $7\frac{1}{2}$ "	(8 inch high)
	(14 inch high)
	(24 inch high)

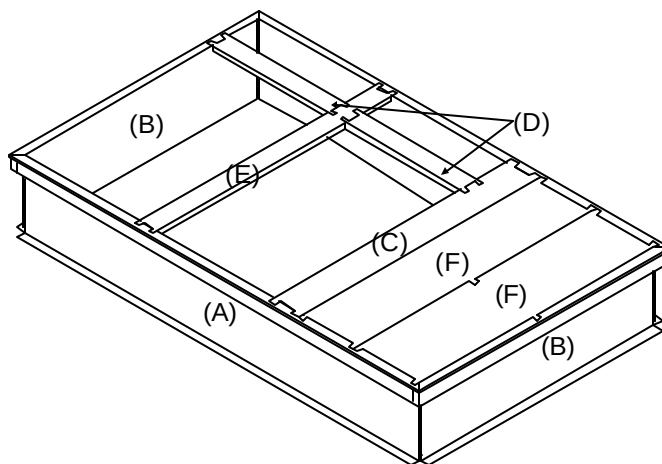
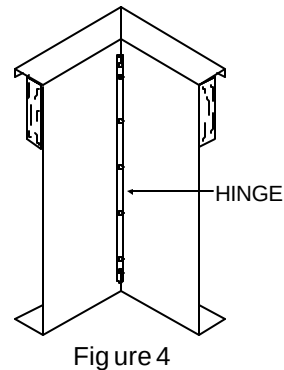
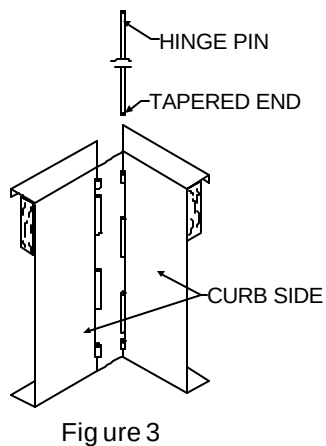


Figure 2

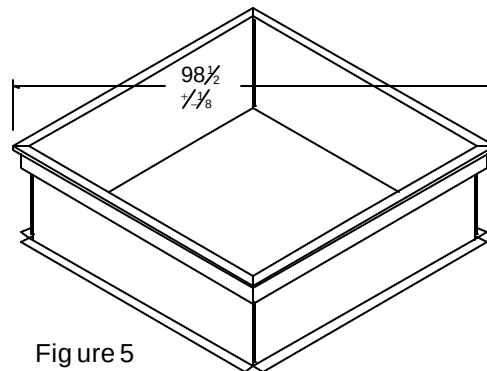
STEP 2:

Layout the curb pieces before assembly to insure that all the necessary pieces are included.



STEP 3:

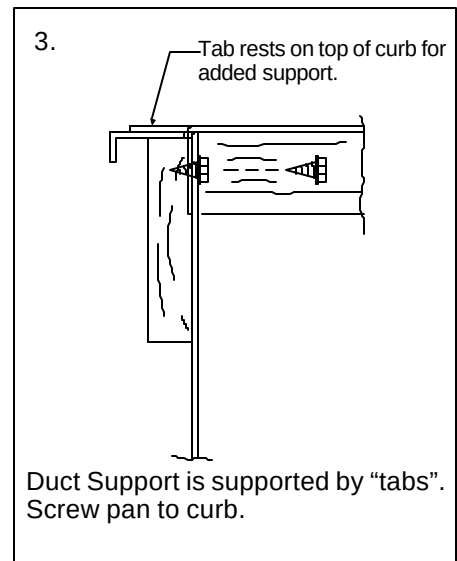
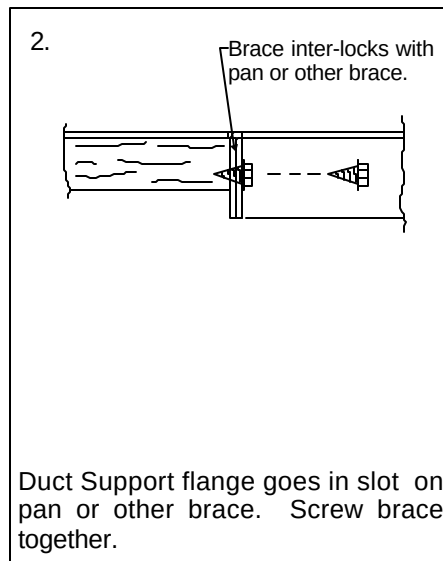
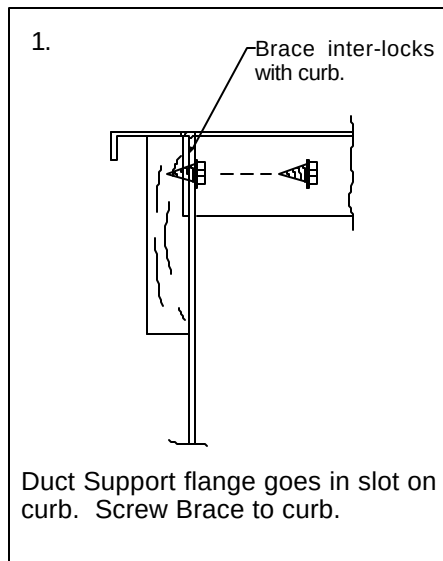
Corner Assembly: Align each curb side as shown in (Figure 3). Using a hammer, drive the curb “hinge” pin down until the top of the pin is below the top of the curb (Figure 4).



STEP 4:

After the four corners are assembled; the curb should be checked to be sure it is in “square”. Do this by measuring diagonally from each opposite corner. The two measurements should be the same for each direction.

DETAILS



The roof curb can now have the duct support and the insulated pans installed.

STEP 5:

Install duct support (C) on the curb as shown with the roof opening over the desired duct location. See "DETAILS #1"

STEP 6:

Place the duct support (E) on the curb and the duct support (C), making sure that it is in the right location. See "DETAILS #1 and #2"

STEP 7:

Place the duct support (D) on the curb and duct support (E & C). See "DETAILS #1 and #2"

STEP 8:

Install the insulated pans (F). See "DETAILS #3"

STEP 9:

If the curb is being assembled & moved to another location, attach the brace & pans to the curb as shown in the "DETAILS".

STEP 10:

Place the $\frac{3}{4}$ " X $1\frac{1}{4}$ " gasket on the top edges of the curb, duct support & pan.

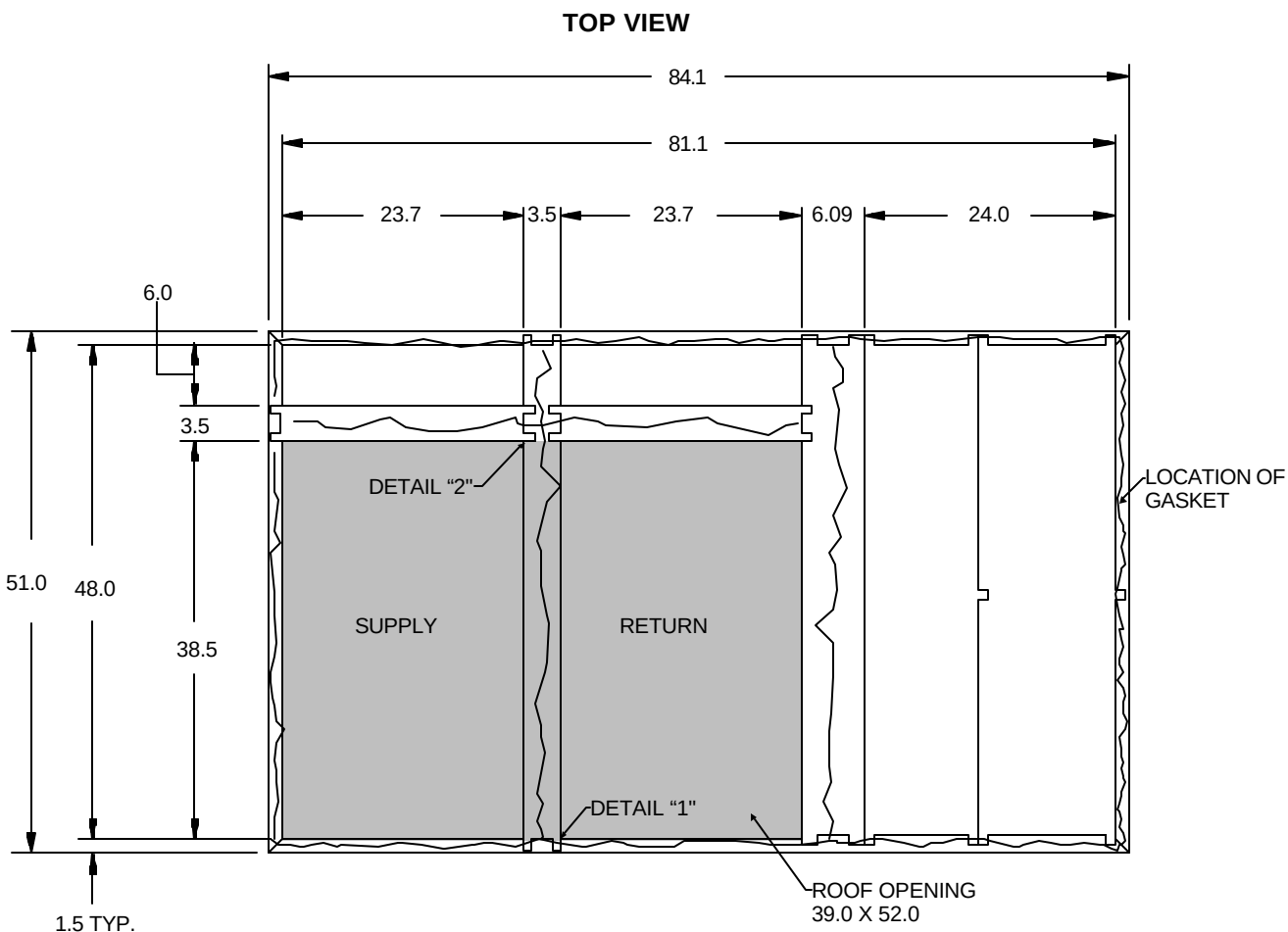
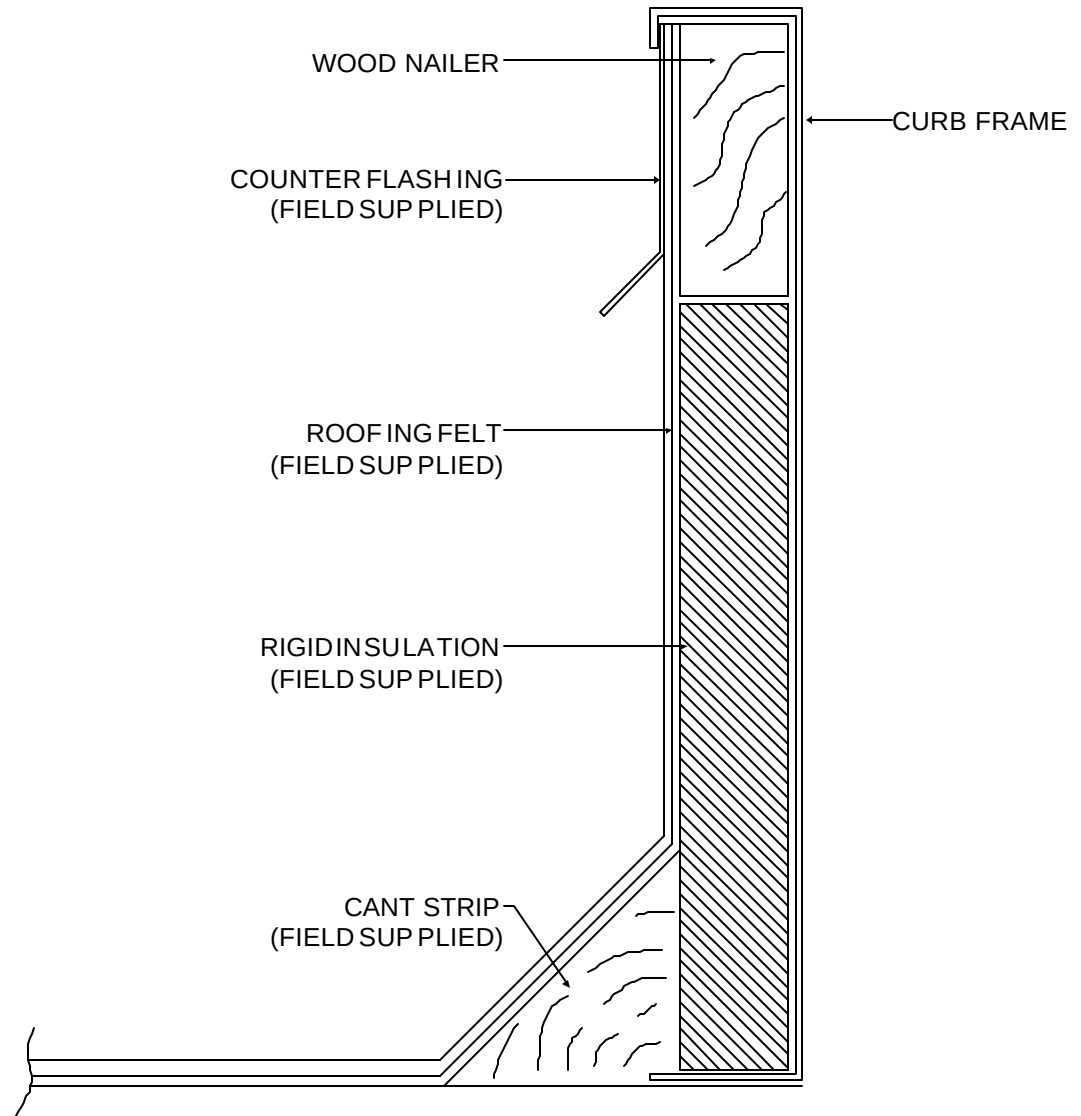


Figure6

**ROOFING
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This Roof Curb is built to NRCA specifications and is constructed of 18 gauge galvanized steel with a full perimeter 1" X 4" wood nailer strip. Curb height is determined by the part number as listed below.

- AXB050 CLA = 8 inches high.
AXB050 CMA = 14 inches high.
AXB050 CHA = 24 inches high.

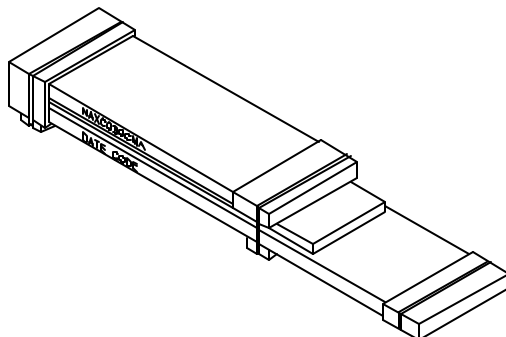


Figure 1

STEP 1:

Check for the correct number of parts. See list below.

1. 2 ea. Curb Sides - 93.360" long **(A)**
2. 2 ea. End Panels - 61.500" long **(B)**
3. 1 ea. Duct Support 58.500" long **(C)**
4. 2 ea. Duct Support 28.500" long **(D)**
5. 1 ea. Duct Support 58.500" long **(E)**
6. 2 ea. Insulated Pans 58.500" long **(F)**
7. 3 ea. Gasket $\frac{3}{4}$ " x $1\frac{1}{4}$ " x 14' (42 ft. total)
8. 1 ea. Hardware Package contains:
 - 18 ea. #10 X $\frac{1}{2}$ " Hex Screws
 - 4 ea. "Hinge" Pins $\frac{3}{16}$ " x $7\frac{1}{2}$ "

(8 inch high)
(14 inch high)
(24 inch high)

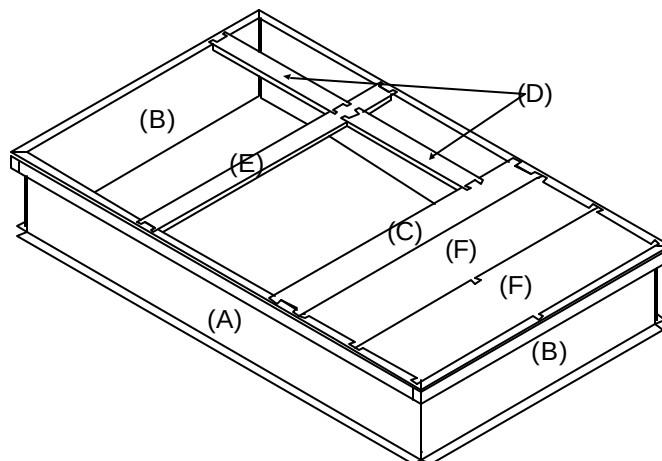
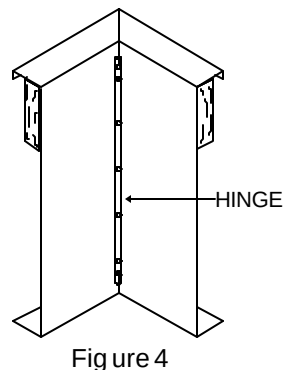
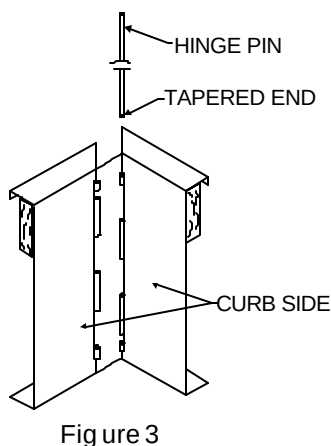


Figure 2

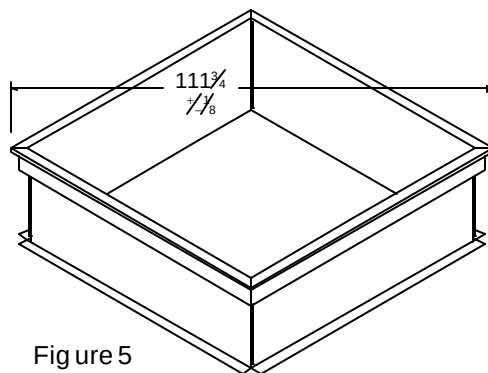
STEP 2:

Layout the curb pieces before assembly to insure that all the necessary pieces are included.



STEP 3:

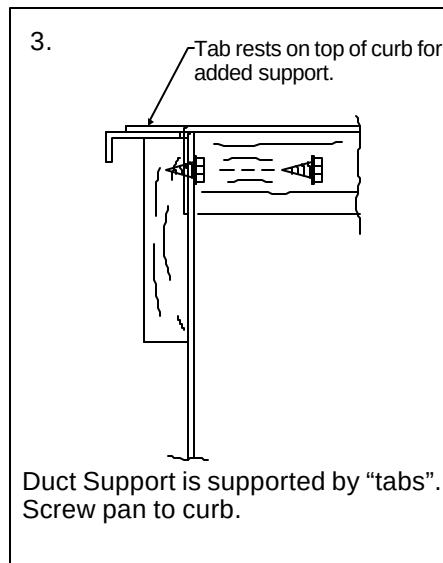
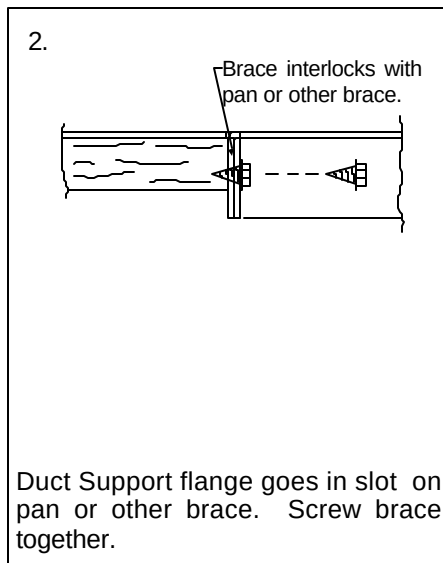
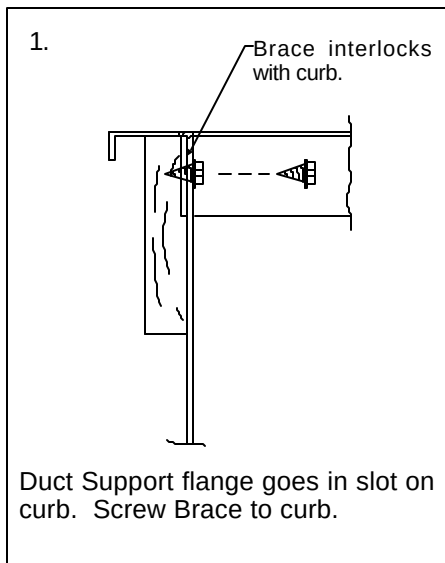
Corner Assembly: Align each curb side as shown in (Figure 3). Using a hammer, drive the curb “hinge” pin down until the top of the pin is below the top of the curb (Figure 4).



STEP 4:

After the four corners are assembled; the curb should be checked to be sure it is in “square”. Do this by measuring diagonally from each opposite corner. The two measurements should be the same for each direction.

DETAILS



The roof curb can now have the duct support and the insulated pans installed.

STEP 5:

Install duct support (C) on the curb as shown with the roof opening over the desired duct location. See "DETAILS #1"

STEP 6:

Place the duct support (E) on the curb and the duct support (C), making sure that it is in the right location. See "DETAILS #1 and #2"

STEP 7:

Place the duct support (D) on the curb and duct support (E & C). See "DETAILS #1 and #2"

STEP 8:

Install the insulated pans (F). See "DETAILS #3"

STEP 9:

If the curb is being assembled & moved to another location, attach the brace & pans to the curb as shown in the "DETAILS".

STEP 10:

Place the $\frac{3}{4}$ " X $1\frac{1}{4}$ " gasket on the top edges of the curb, duct support & pan.

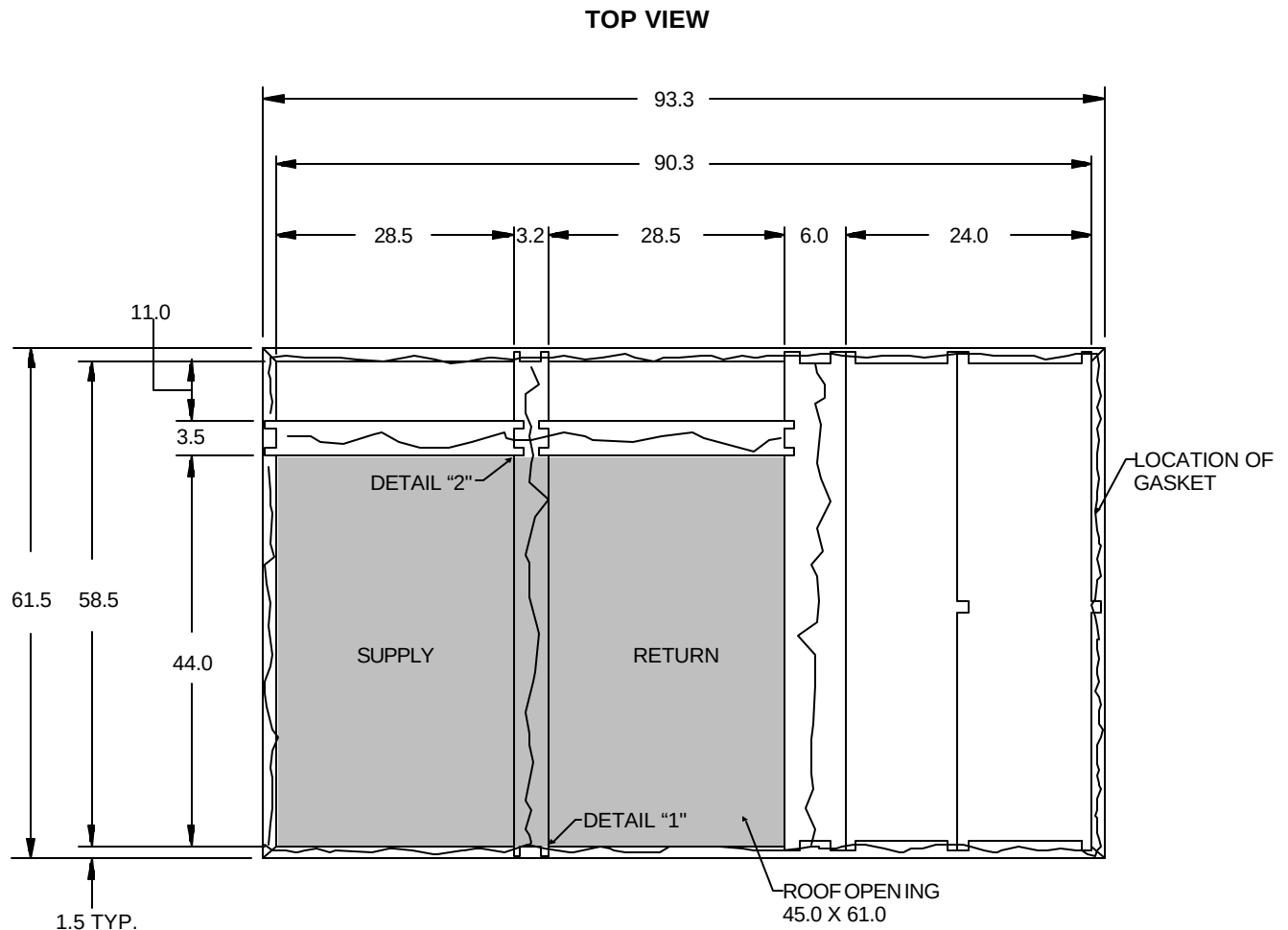
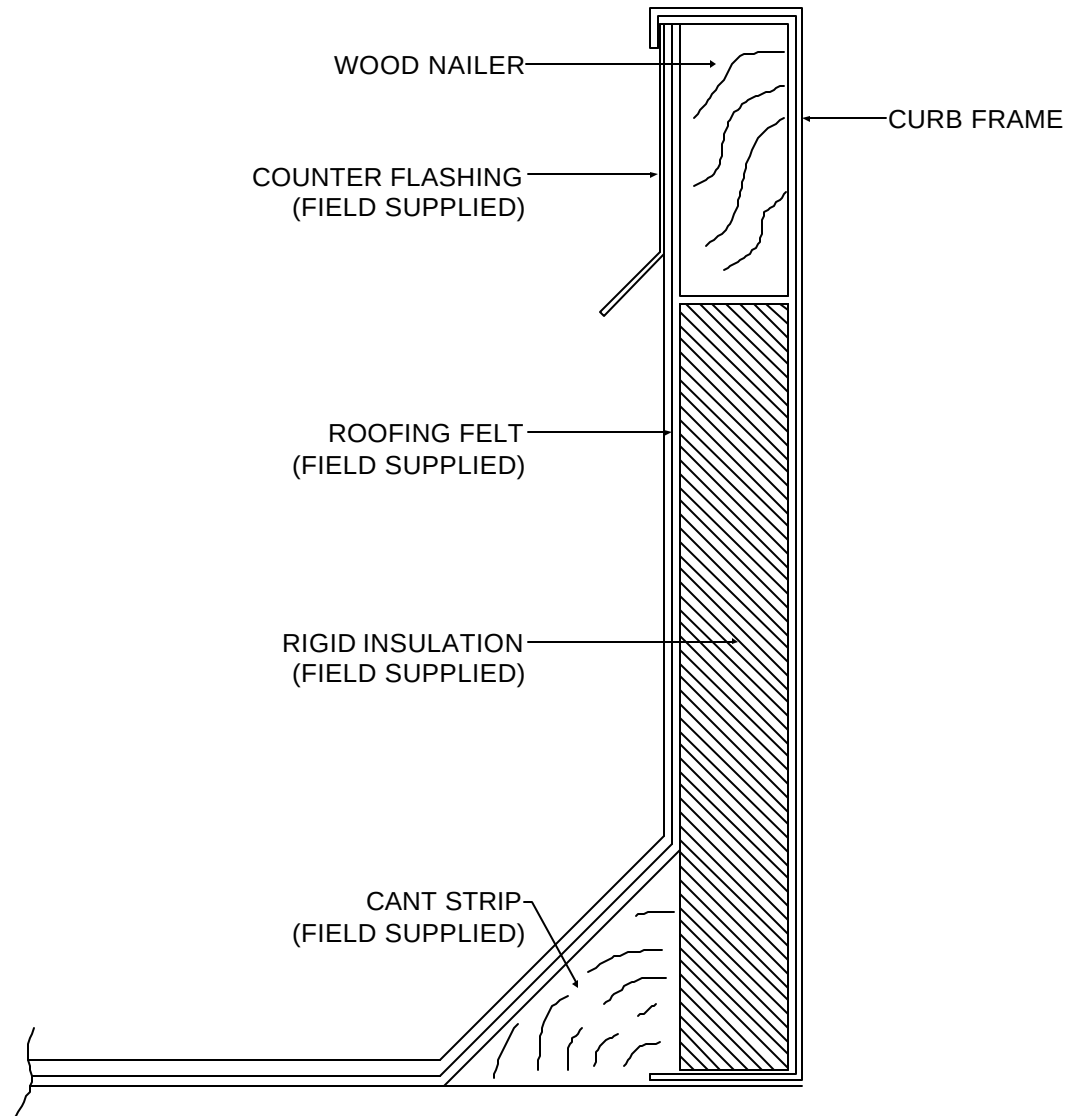


Figure 6

**ROOFING
INSTRUCTIONS**



INTERNATIONAL COMFORT PRODUCTS

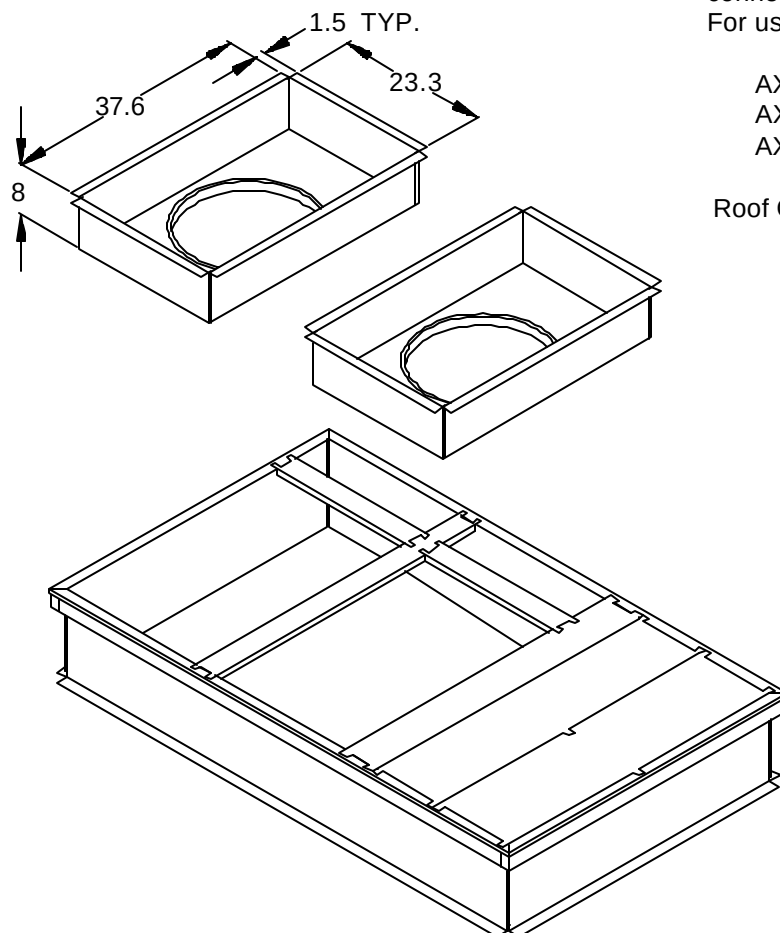
651 HEIL-QUAKER AVE
POST OFFICE BOX 128
LEWISBURG, TENNESSEE
37091
PHONE (931) 359-3511
FAX (931) 270-4199

The Concentric Curb Transition is designed to drop into the curb and convert the square duct unit connections to round duct.

For use with:

AXB040CLA
AXB040CMA
AXB040CHA

Roof Curb Assembly



STEP 1:

Check for correct part number and dimensions listed above:

STEP 2:

Attach duct to transition duct connections.

STEP 3:

Install transition in supply/return opening in roof curb.

STEP 4:

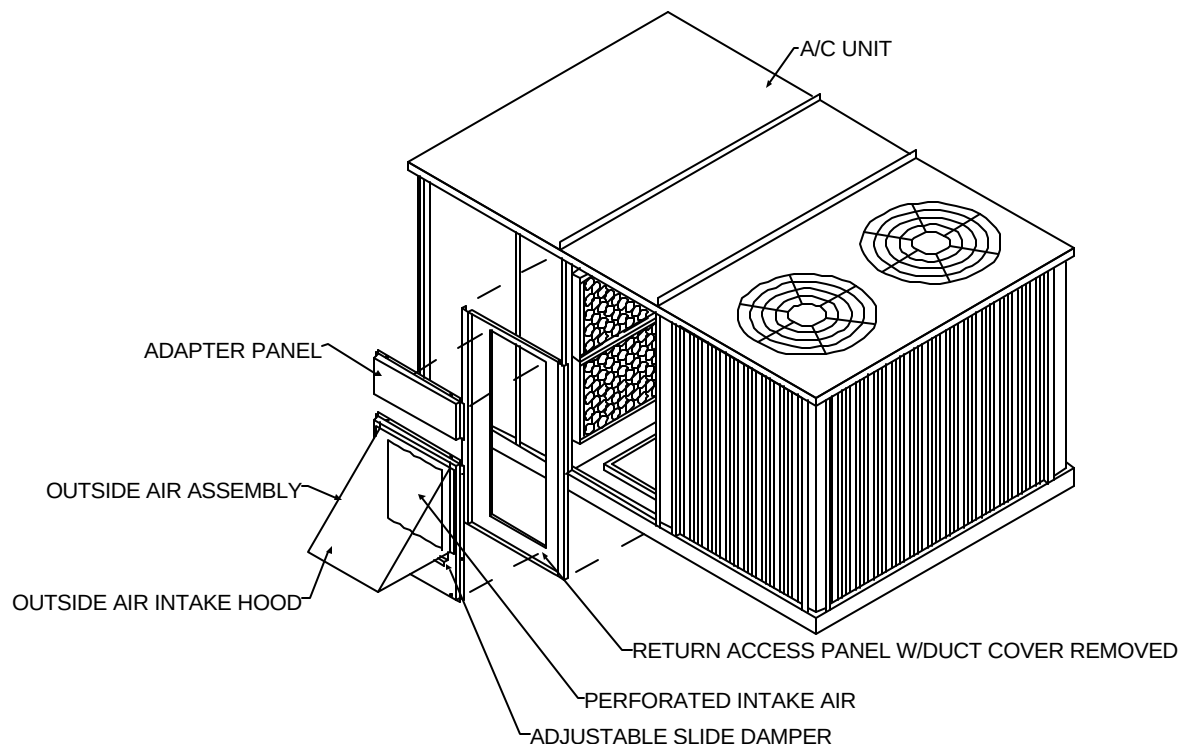
Place $\frac{3}{4}$ " X $\frac{1}{4}$ " gasket (included with the curb only) as instructed in roof curb installation sheet.

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The 0-25% manual outside air system is designed to replace the unit duct cover. The amount of outside air is controlled by simply adjusting the slide damper. The panel is fully insulated.



MODEL	UNIT SIZE
AXB040FAC	7.5 - 10 TON
AXB050FAC	12.5 - 15 TON

STEP 1:

Check for correct number of parts. See list below:

- 1 ea. - Outside Air Intake panel assembly with hood and slide damper.
- 1 ea. - Adaptor Panel.

STEP 2:

Remove return air duct cover from unit, and save the screws.

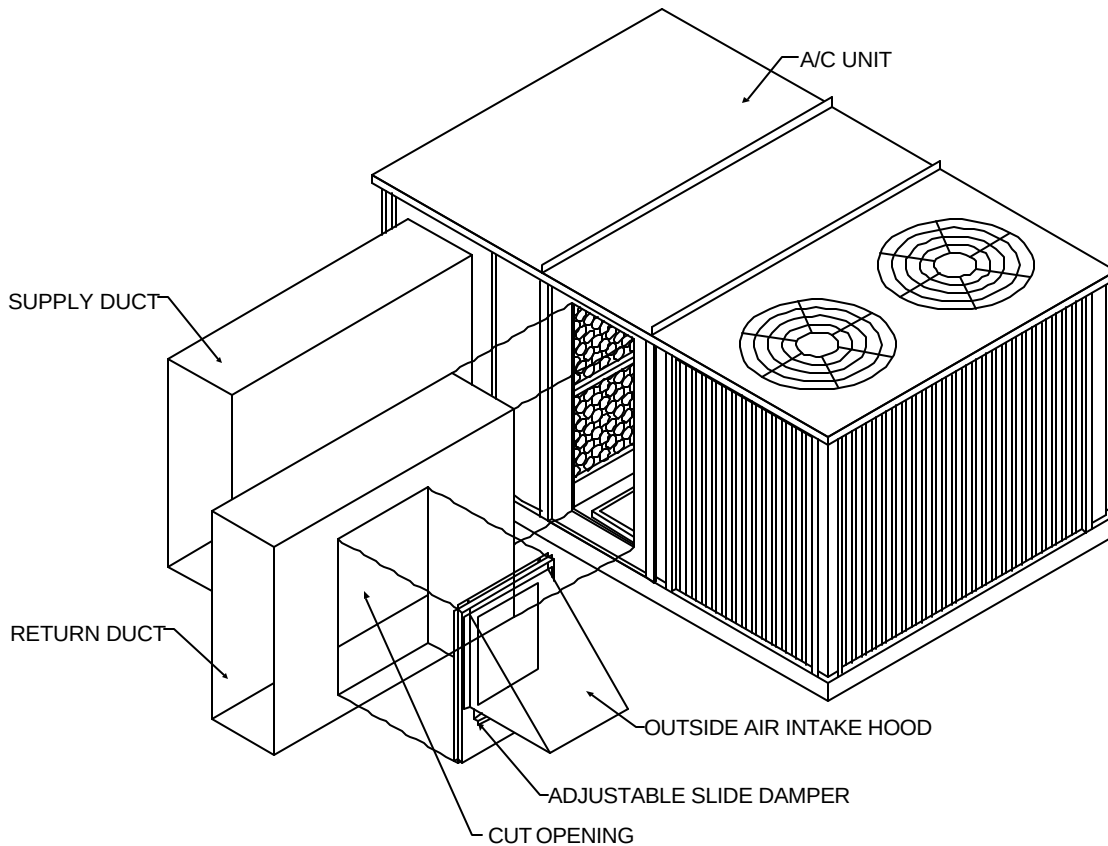
STEP 3:

Install outside air assembly as shown over duct opening with the screws removed in Step 2. Use self-drilling screws in the two holes of adaptor panel not having corresponding holes in the return access panel.

STEP 4:

Adjust the slide damper to the desired position.

HORIZONTAL APPLICATION



STEP 2:

After mounting return duct to unit cut a 14.250 x 30.000 hole in duct as shown. (7 1/2 - 10 ton unit).
After mounting return duct to unit cut a 21.250 x 36.000 hole in duct as shown. (12 1/2 - 15 ton unit).

STEP 3:

Use self-drilling screws on panel to secure to the return duct side.

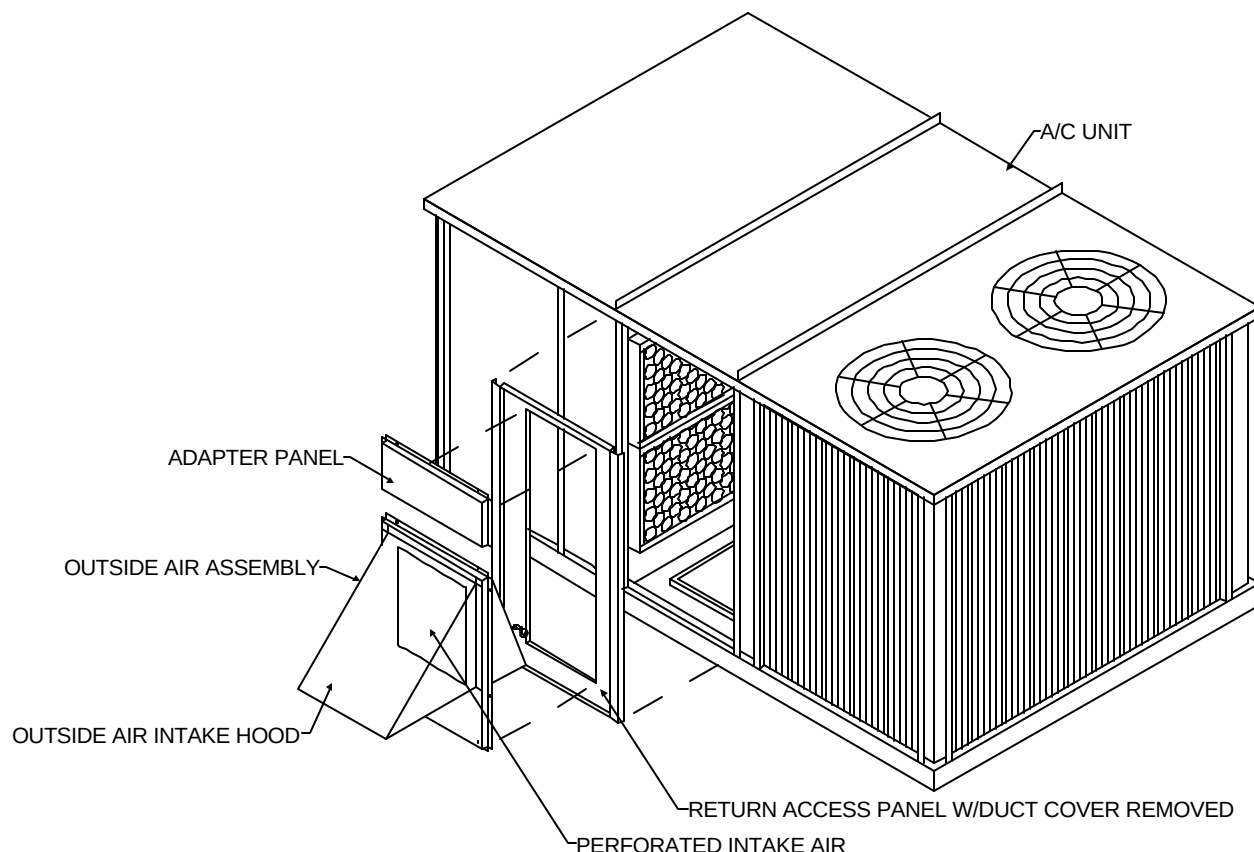
STEP 4:

Adjust the slide damper to the desired position.

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The 0-25% motorized outside air system is designed to replace the unit duct cover. The amount of outside air is controlled by a motorized damper. The panel is fully insulated.



MODEL	UNIT SIZE
AXB040FMC	7.5 - 10 TON
AXB050FMC	12.5 - 15 TON

STEP 1:

Check for correct number of parts. See list below:

- 1 ea. - Outside Air Intake panel assembly with hood and motorized damper.
- 1 ea. - Adapter Panel.

STEP 2:

Remove return air duct cover from return access panel, and save the screws.

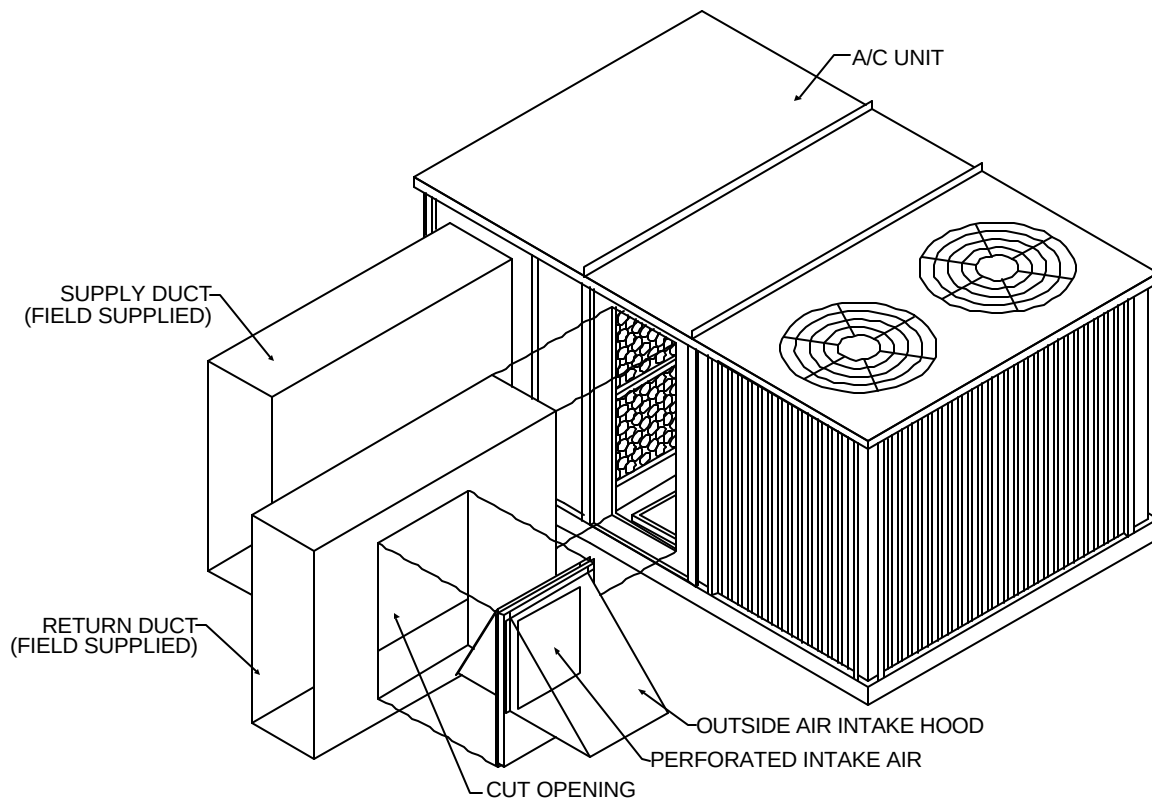
STEP 3:

Connect harness to unit plug provided under control box.

STEP 4:

Install outside air assembly as shown in Figure 1 over duct opening with the screws removed in Step 2. Use self-drilling screws in the two holes of adapter panel not having corresponding holes in the return access panel.

HORIZONTAL APPLICATION



STEP 2:

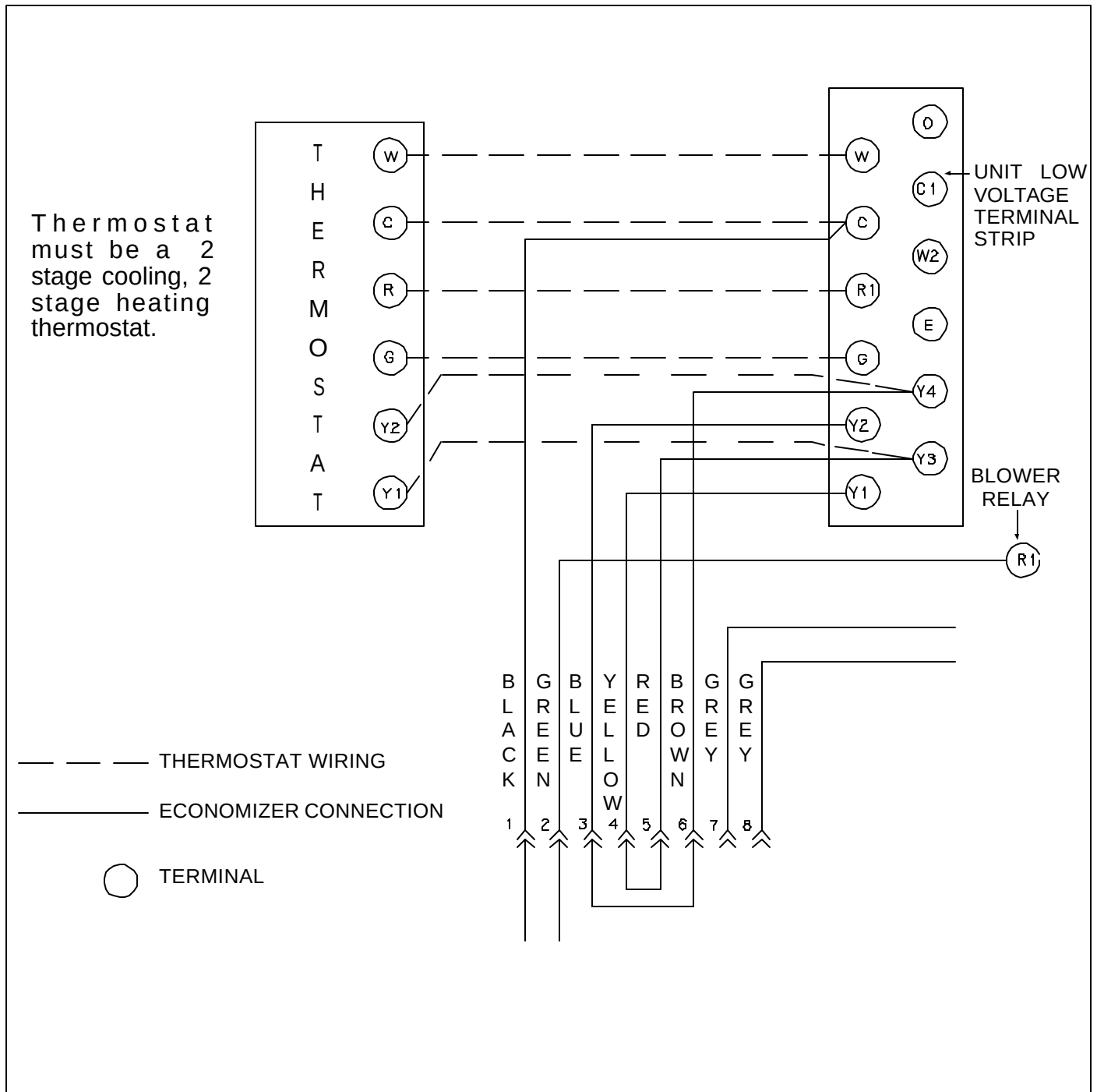
After mounting return duct to unit cut a 14.250 x 30.000 hole in duct as shown. (7.5 - 10 ton unit).
After mounting return duct to unit cut a 21.250 x 36.000 hole in duct as shown. (12.5 - 15 ton unit).

STEP 3:

Connect harness to unit plug provided under control box.

STEP 4:

Use self-drilling screws on panel to secure to the return duct side.



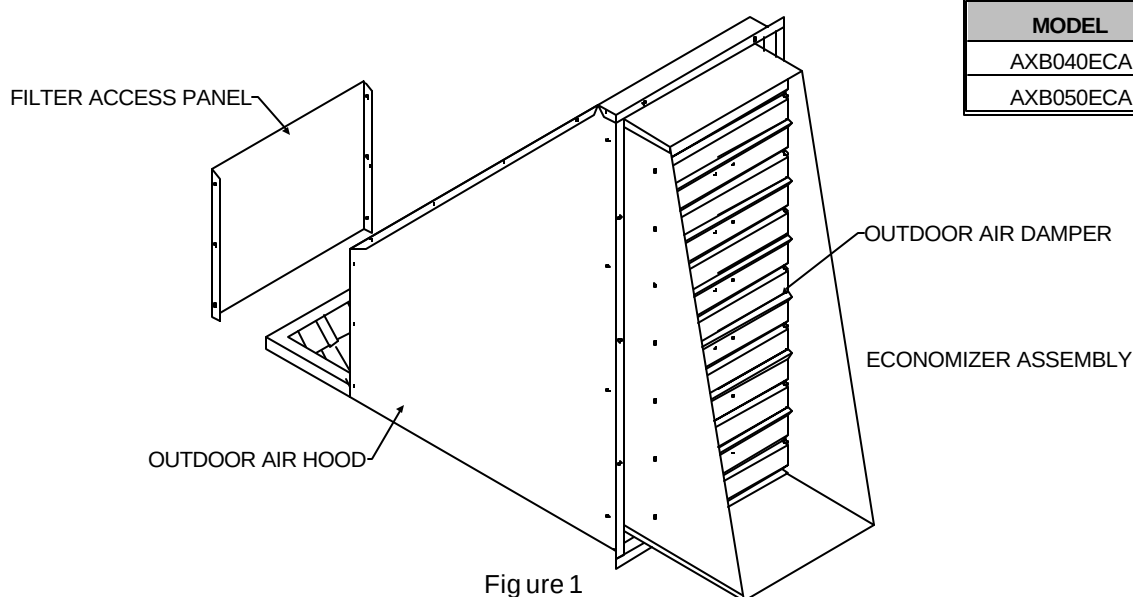
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Economizers are used with 7½ - 15 ton units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

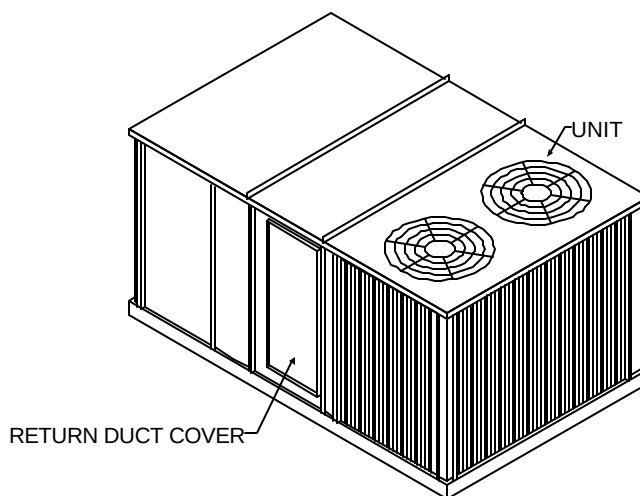


MODEL	UNIT SIZE
AXB040ECA	7.5 - 10 TON
AXB050ECA	12.5 - 15 TON

STEP 1:

Check for correct number of parts. See list below.

- 1 -Economizer Assembly (Discharge Air Sensor Included)
- 1 -Outdoor Air Hood
- 1 -Bag Hardware



STEP 2:

Disconnect all power to unit.

STEP 3:

Remove return air access panel from unit, shown in Figure 2.

STEP 4:

Remove the return duct cover from return air access panel. (See Figure 2).

STEP 5:

Remove the cardboard cover from the return air duct opening in bottom of unit, if present.

STEP 6:

Take Economizer and place over the return air access panel. See Figure 3.

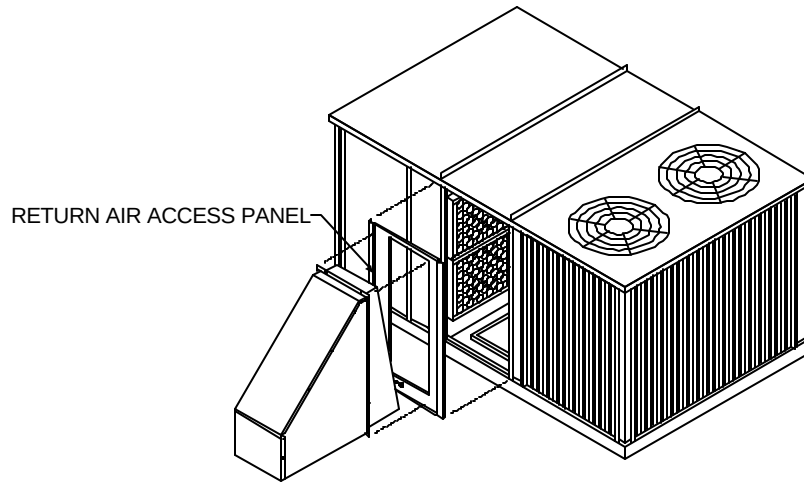


Figure 3

STEP 7:

Economizer installation is complete. Now go to the opposite side of the unit.

STEP 8:

Remove blower access panel and filter access panel.

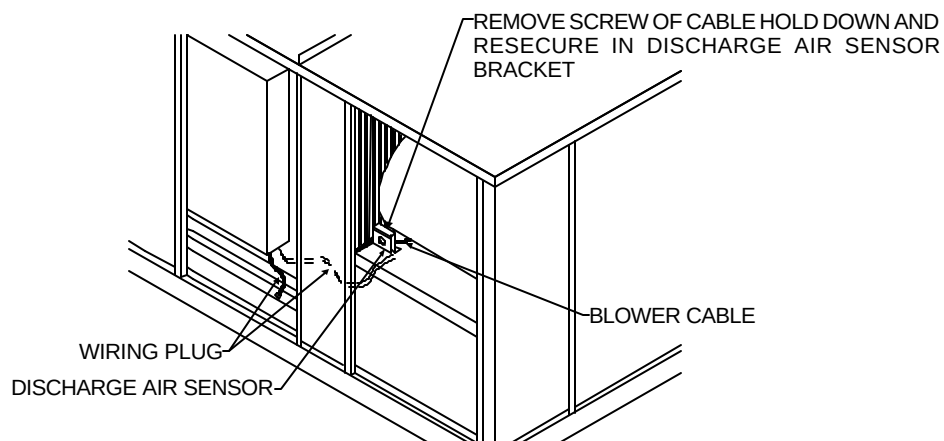


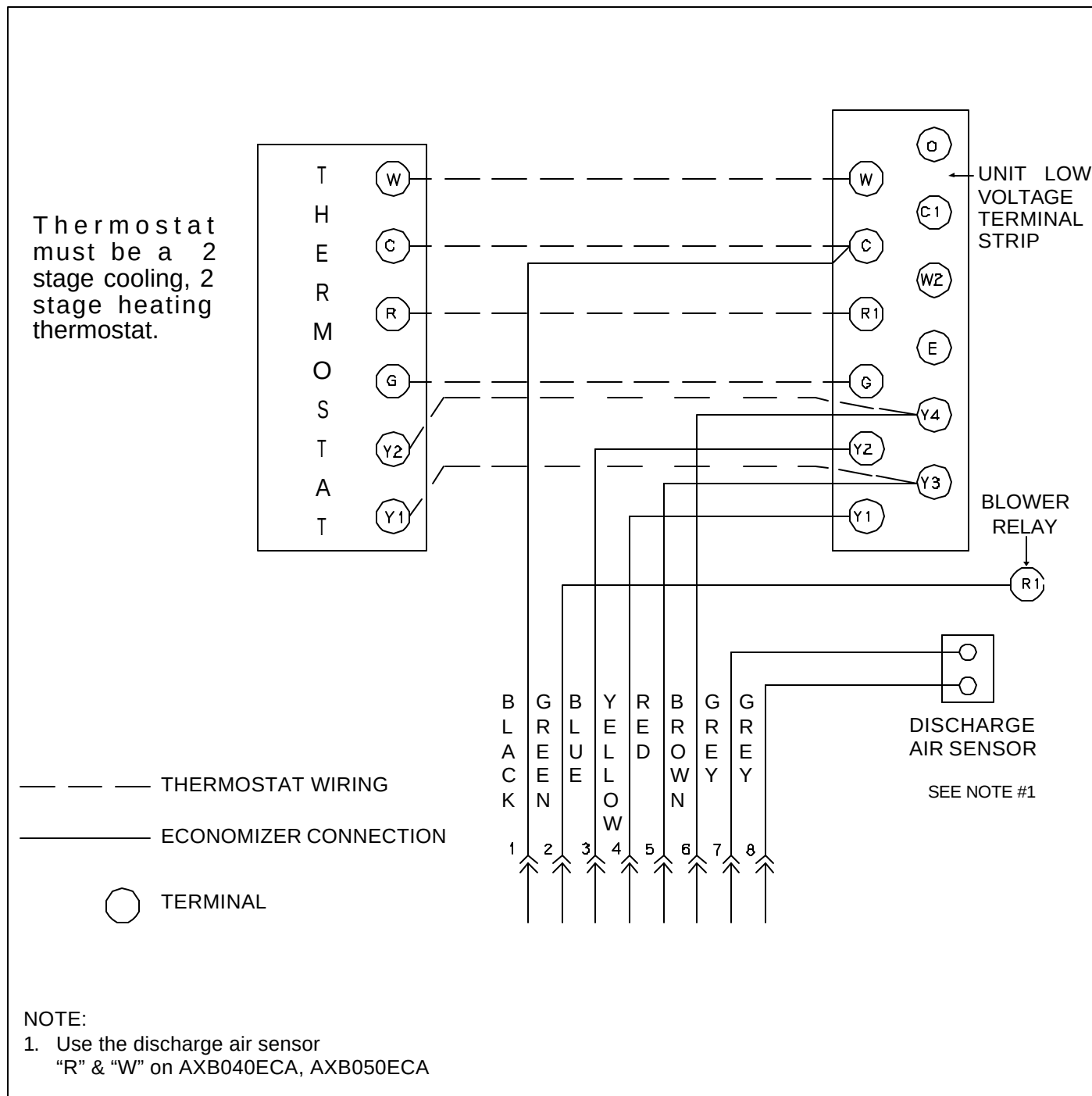
Figure 4

STEP 9:

Install the discharge air sensor as shown in Figure 4. Connect wiring plug from Economizer to the wiring plug provided under the unit control box.

STEP 10:

Replace all panels and restore power to the unit.

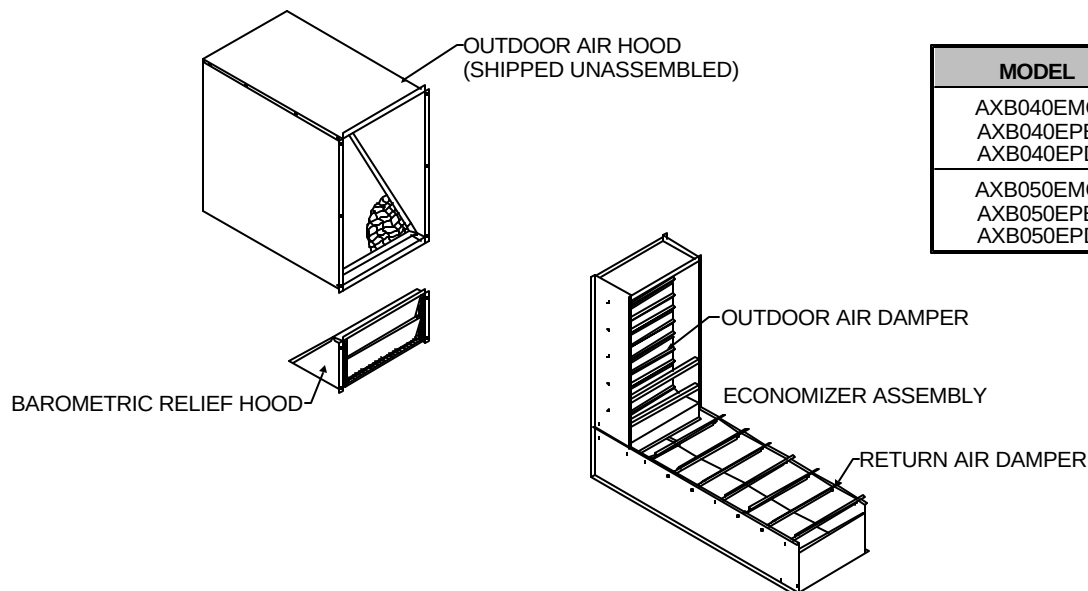


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Economizers are used with 7½ - 15 ton units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.



MODEL	UNIT SIZE
AXB040EMC AXB040EPB AXB040EPD	7.5 - 10 TON
AXB050EMC AXB050EPB AXB050EPD	12.5 - 15 TON

Figure 1

STEP 1:

Check for correct number of parts. See list below.

- 1 -Economizer Assembly (Discharge Air Sensor Included)
- 1 -Barometric Relief Hood
- 1 -Outdoor Air Hood (Shipped Unassembled)
- 1 -Bag Hardware

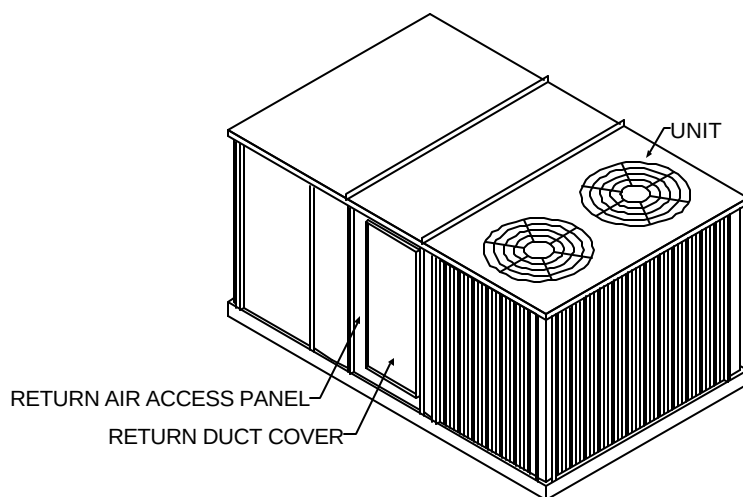


Figure 2

STEP 2:

Disconnect all power to unit

STEP 3:

Remove return air access panel from unit, shown in Figure 2.

STEP 4:

Remove the return duct cover from return air access panel. (See Figure 2).

STEP 5:

Remove the cardboard cover from the return air duct opening in bottom of unit, if present.

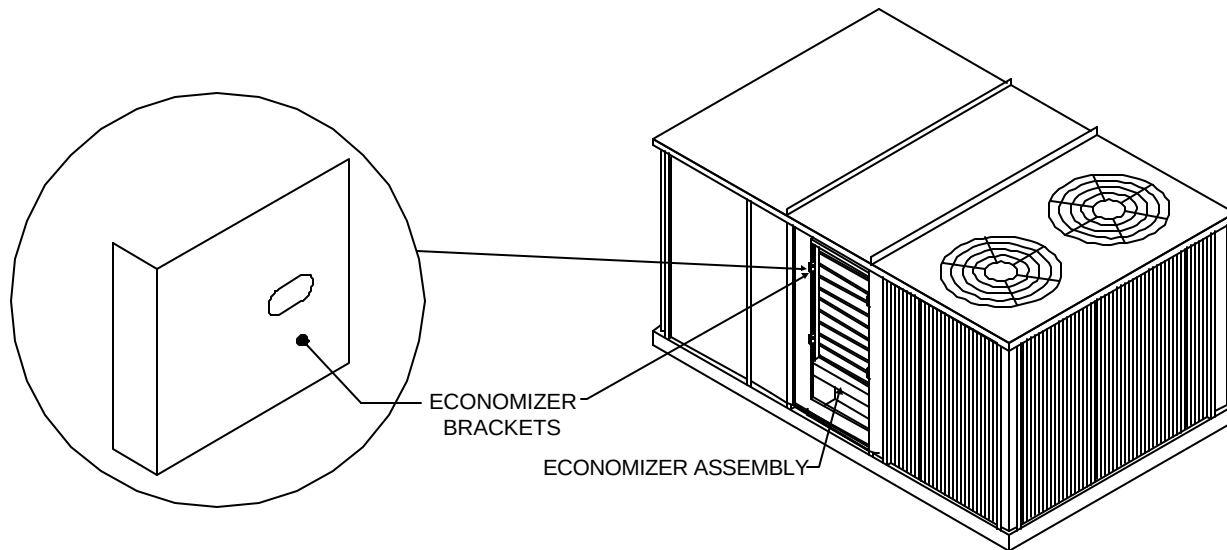


Figure 3

STEP 6:

Slide Economizer assembly into unit over return opening. See Figure 3.

STEP 7:

Remove four (4) Economizer brackets.

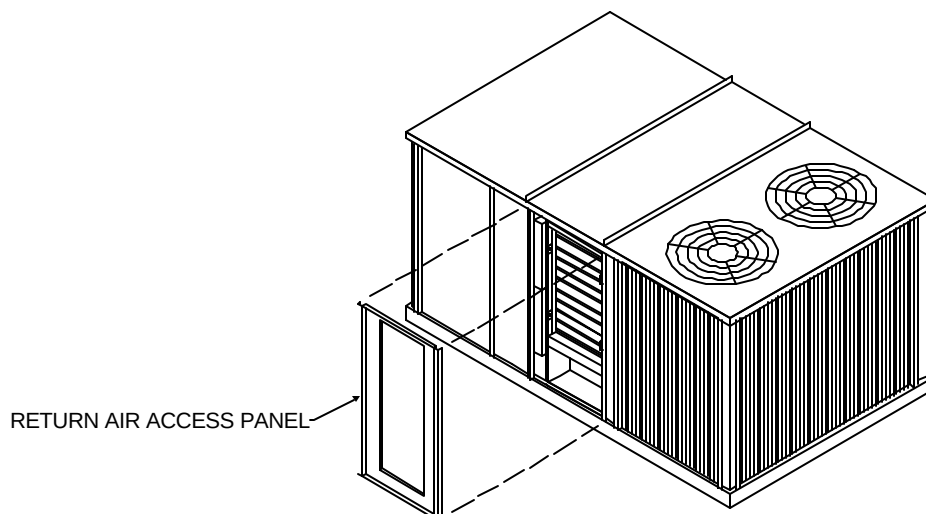
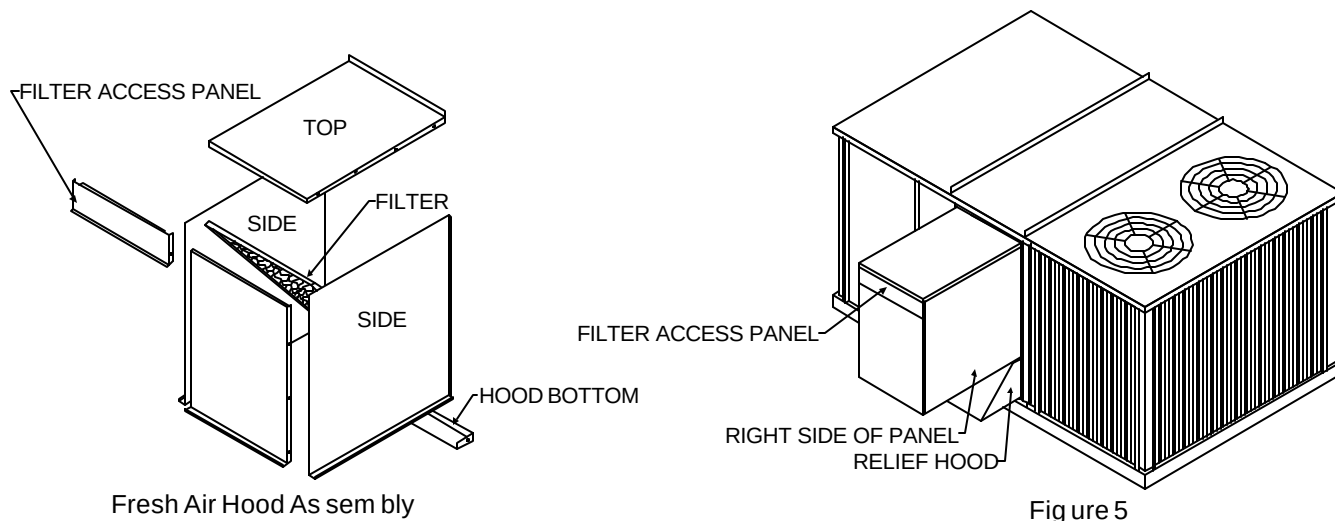


Figure 4

STEP 8:

Once the Economizer is in place take the return air access panel, center Economizer on opening of panel. See Figure 4. Replace the four Economizer brackets to hook over the return air panel. Be sure that the Economizer is drawn against the insulation inside the return air panel.



STEP 9:

Install the barometric relief hood. Its upper flange should rest against the gasket strip on the Economizer. Holes will have to be drilled. Assemble the fresh air hood. Then place the fresh air hood over the opening with the bottom flange overlapping the relief hood flange. Secure to return air panel with screws provided. (See Figure 5).

STEP 10:

Economizer installation is complete. Now go to the opposite side of the unit.

STEP 11:

Remove blower access panel and filter access panel.

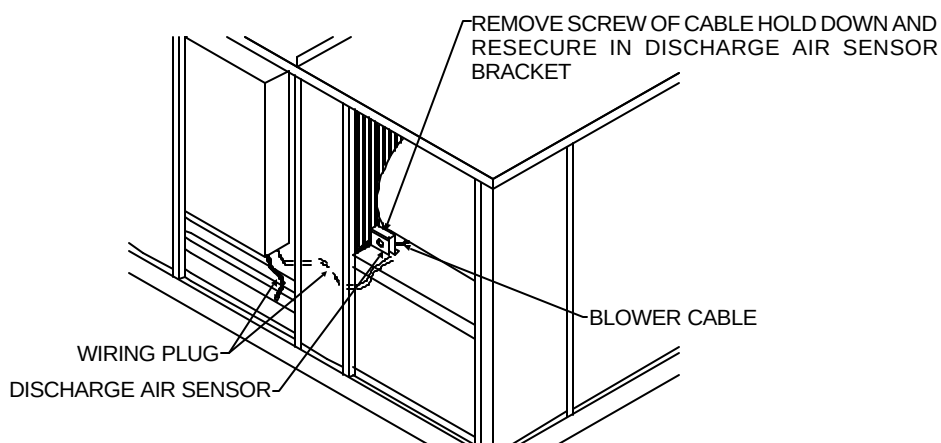


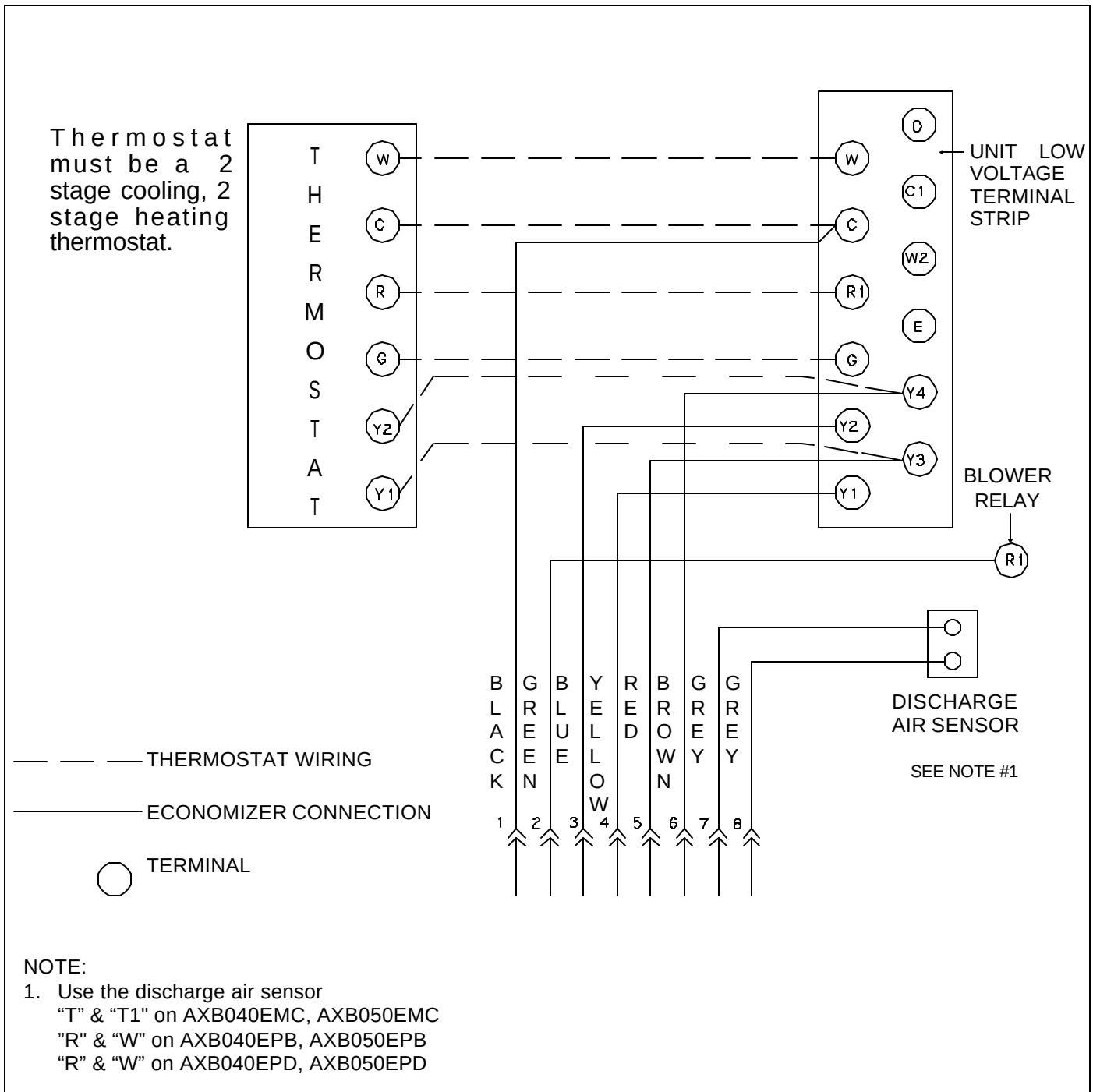
Figure 6

STEP 12:

Install the discharge air sensor as shown in Figure 6. Connect wiring plug from Economizer to the wiring plug provided under the unit control box.

STEP 13:

Replace all panels and restore power to the unit.



NOTE:

1. Use the discharge air sensor
"T" & "T1" on AXB040EMC, AXB050EMC
"R" & "W" on AXB040EPB, AXB050EPB
"R" & "W" on AXB040EPD, AXB050EPD

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Horizontal Economizers are used with 7.5 - 15 ton units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

MODEL	UNIT SIZE
AXB040HEC AXB040HPB AXB040HPD	7.5 - 10 TON
AXB050HEC AXB050HPB AXB050HPD	12.5 - 15 TON

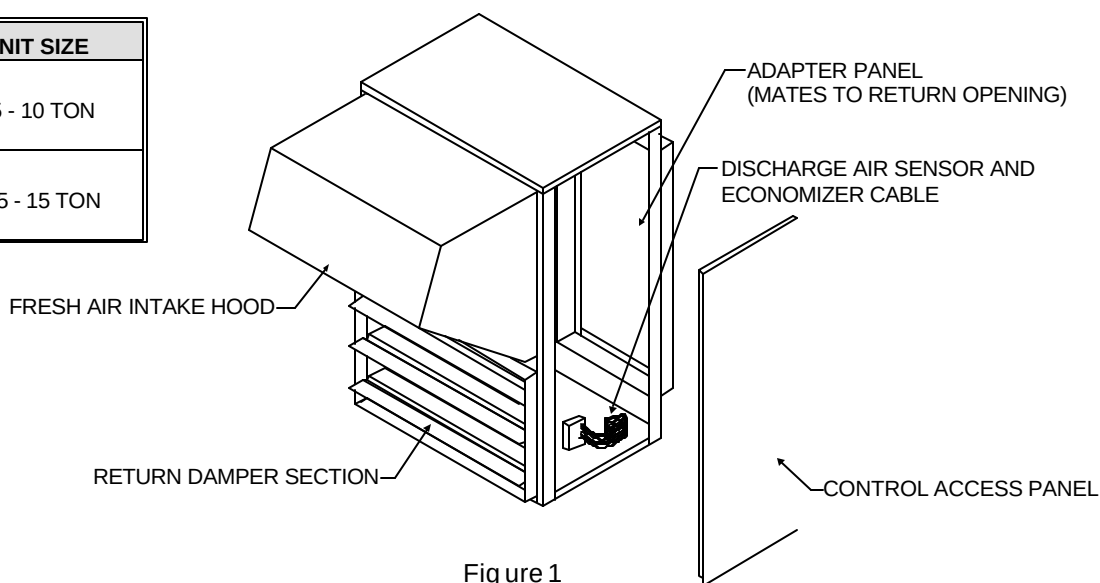


Figure 1

STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Relief Hood
- 1 - Wiring Diagram Sticker
- 10 - #10 - 16 x ½ Hex Tec Screws

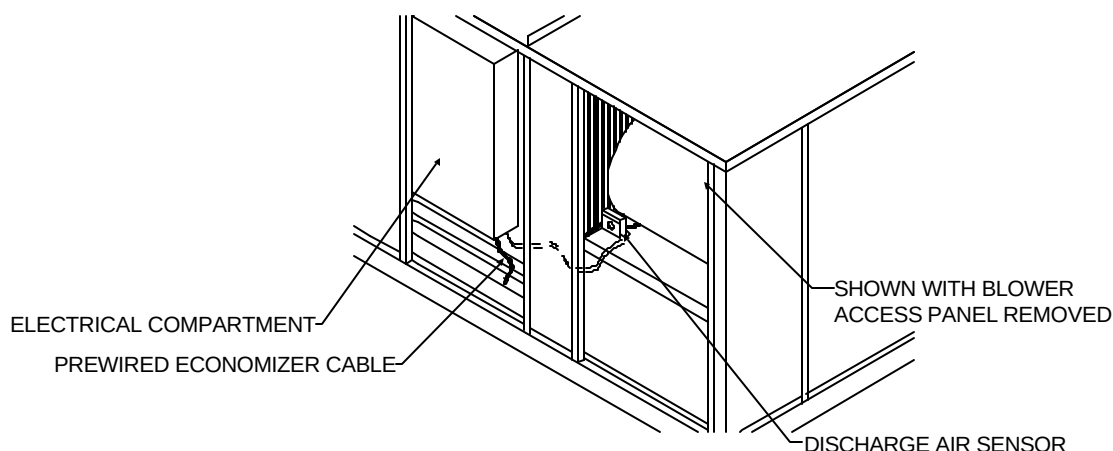


Figure 2

STEP 2:

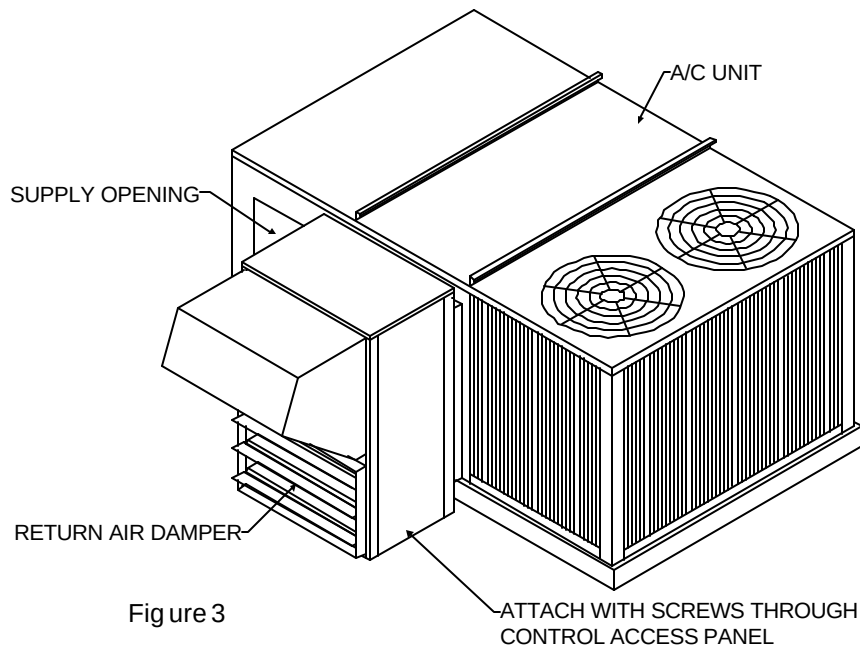
Disconnect all power to unit.

STEP 3:

Remove discharge air sensor, shown in Figure 1. Remove blower access panel. Install the discharge sensor in blower section of the unit.

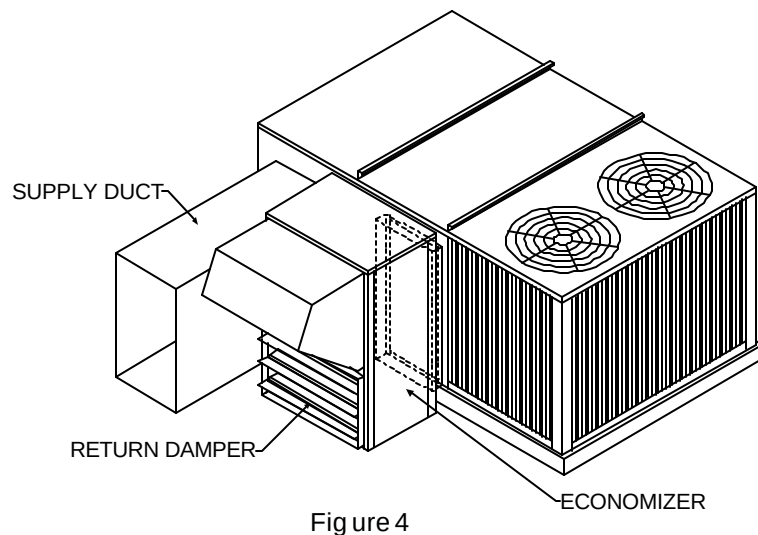
STEP 4:

Remove the return air access panel and electrical access panel. Route the cable through the unit. (See Figure 2). Economizer cable is to be routed through return section. Make the connection of the Economizer plug to the unit Economizer plug.



STEP 5:

Drill two $\frac{5}{32}$ " (3.8 mm) dia holes (above return air opening on unit) $\frac{7}{8}$ " (22mm) below existing holes. Plug existing hole with screws. Remove control access panel. Secure Economizer to unit using (10) screws as shown in Figure 4.



STEP 6:

Replace blower access panel on unit.

STEP 7:

Attach and seal weather tight return duct to Economizer.

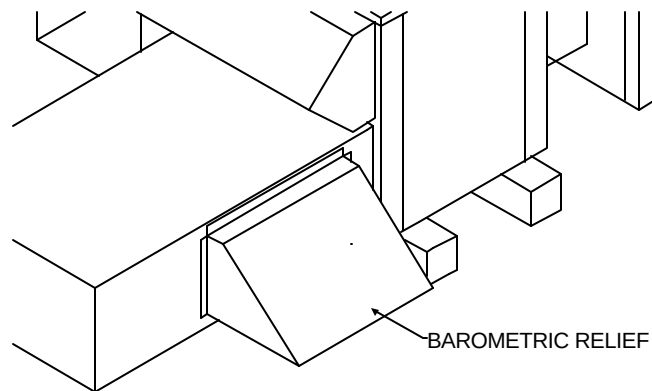


Figure 5

STEP 8:

If the barometric relief is to be installed cut a 18" x 20" hole in the return air duct near Economizer. (See Figure 5).

STEP 9:

Secure pressure relief damper near Economizer over hole in return air duct using (4) screws. Refer to Figure 5.

STEP 10:

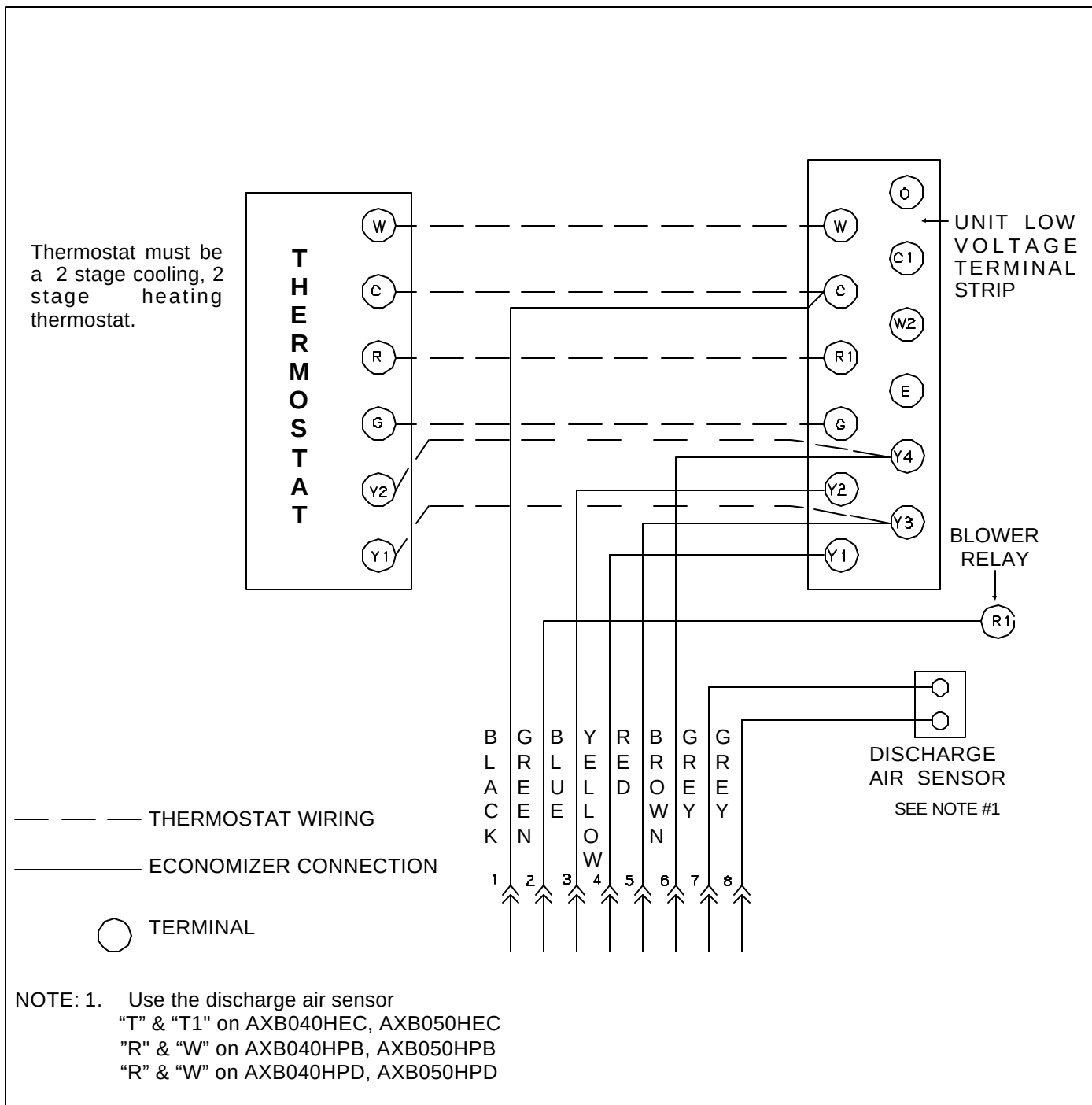
Place the adhesive backed wiring diagram on the low voltage compartment access door by the unit diagram. Reinstall low voltage compartment access panel.

STEP 11:

See the enclosed Honeywell® specification data for operation and check out.

STEP 12:

Turn power back on to the unit.



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The Coil Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- A - Rear Coil Guard (1)
- B - Side Coil Guard (1)
- C - Hardware Package (1)
 - 20 - #10- 16 x ½ Screw
 - 1 - Installation Instruction

MODEL	UNIT SIZE
AGC05PU0A	7.5 TON
AGC06PU0A	10 TON
AGC07PU0A	12.5 TON
AGC08PU0A	15 TON

STEP 1:

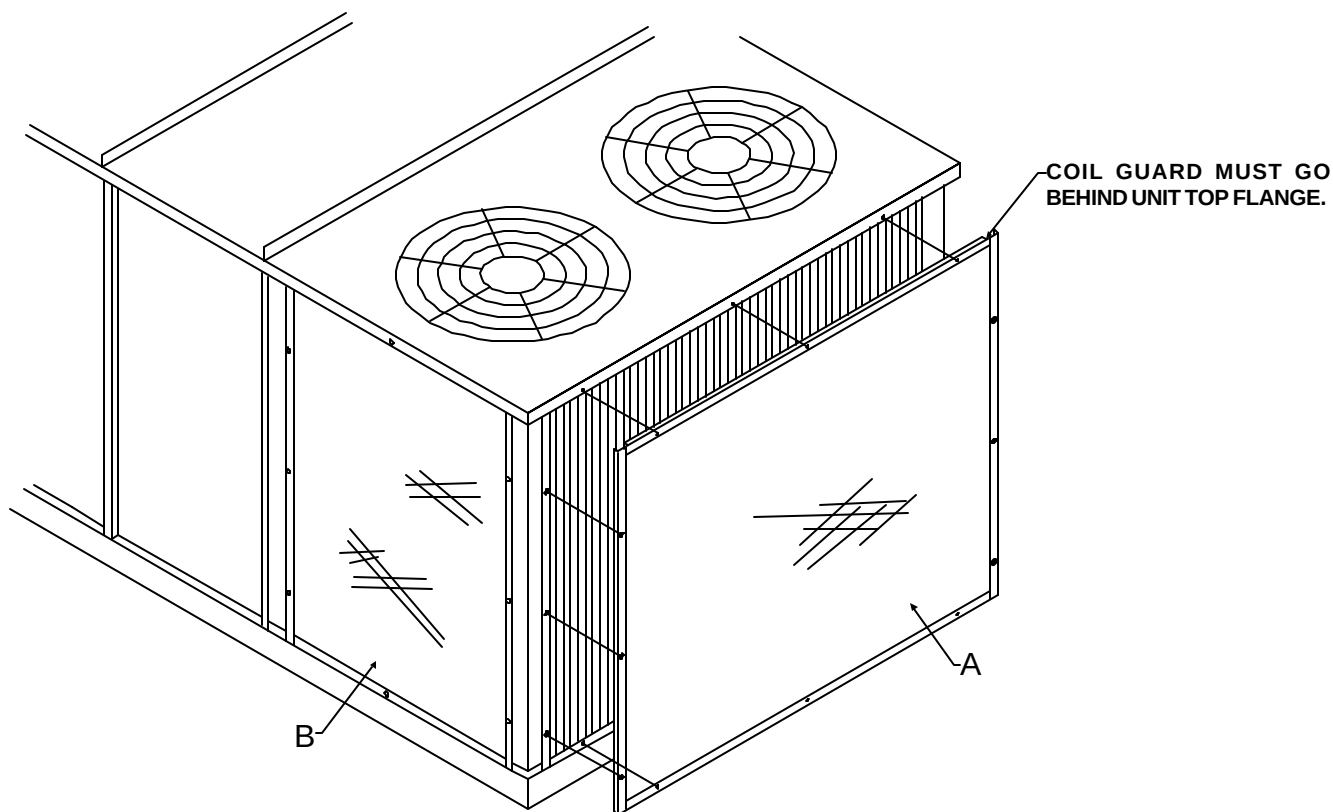
Check for correct model number and number of parts above:

STEP 2:

Take (A) rear coil guard and align holes with corner posts of unit and secure.

STEP 3:

Then take (B) side coil guard and align holes with corner posts of unit and secure.



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The Hail Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- A - Rear Hail Guard Kit (1)
- B - Side Hail Guard Kit (1)
- C - Rear Top Panel (1)
- D - Side Top Panel (1)
- E - Vertical Side Panel (4)
- F - Hardware Package (1)
 - 50 - #10- 16 x 1/2" Screw
 - 1 - Installation Instruction

MODEL	UNIT SIZE
AGH05PU0A	7.5 TON
AGH06PU0A	10 TON
AGH07PU0A	12.5 TON
AGH08PU0A	15 TON

STEP 1:

Check for correct model number and number of parts above:

STEP 2:

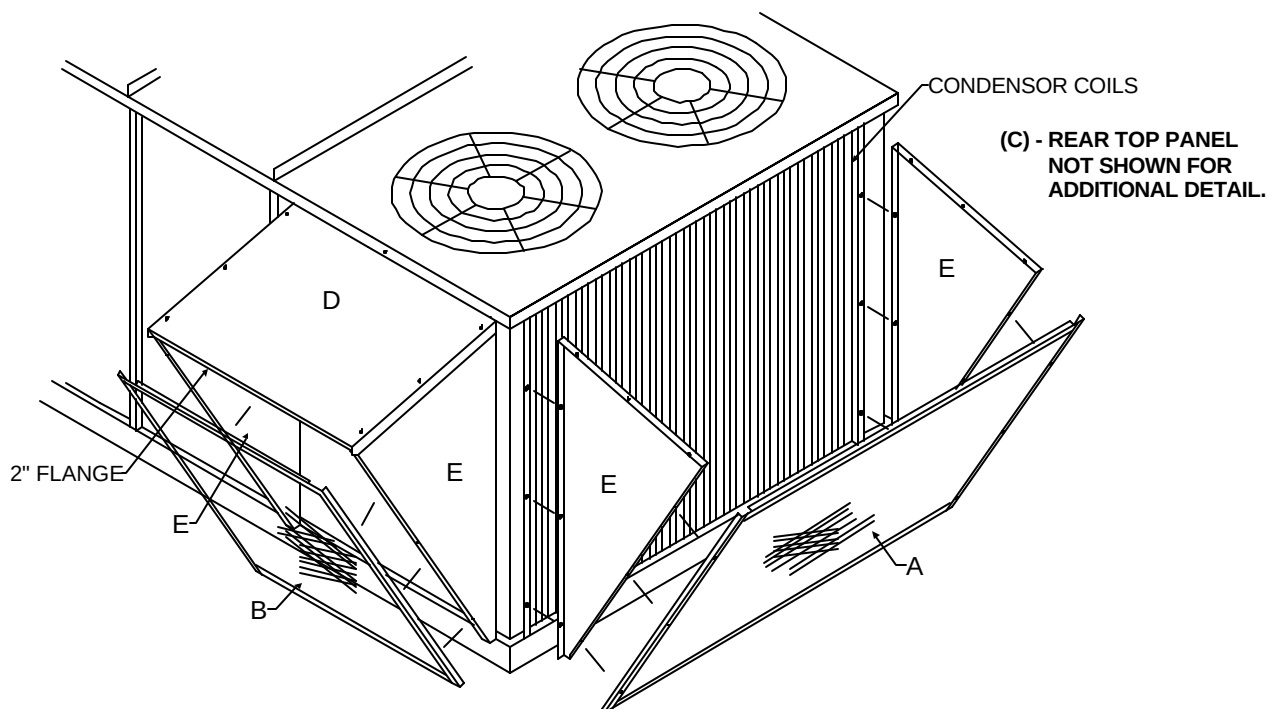
Take (E) vertical side panel and align holes with corner posts of unit and secure.

STEP 3:

Then secure (A) and (B) hail guard kits in holes provided.

STEP 4:

Now secure the (C) rear top panel and (D) side top panel with the .8" flange under top of unit and 2" flange over hail guard kit.



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This Roof Curb is NRCA approved and is constructed of 18 gauge galvanized steel with a full perimeter 2" x 4" wood nailer strip. The curb is designed to be used with the Cooling, Gas Electric, and Heat Pump Models. The curb is shipped with the following parts, (see figure 2):

- 1) 2 ea. Curb Short Sides - 53 $\frac{7}{16}$ " Long (A)
- 2) 2 ea. Curb Long Sides - 75 $\frac{3}{4}$ " Long (B)
- 3) 1 ea. Horizontal Duct Support - 40 $\frac{1}{16}$ " Long (C)
- 4) 1 ea. Vertical Duct Support - 31 $\frac{3}{8}$ " Long (D)
- 5) 1 ea. Vertical Duct Support - 49 $\frac{9}{16}$ " Long (E)
- 6) 3 ea. Condensor Pans - 52" Long (F)
- 7) 1 ea. Hardware Package Includes:
 4 ea. "Hinge" Pins $\frac{3}{16}$ "
 12 ea. Hex Washers screws #10 x $\frac{1}{2}$ "
- 8) 2 ea. Gasket $\frac{3}{4}$ " x 1 $\frac{1}{4}$ " x 14' (28 ft. total)

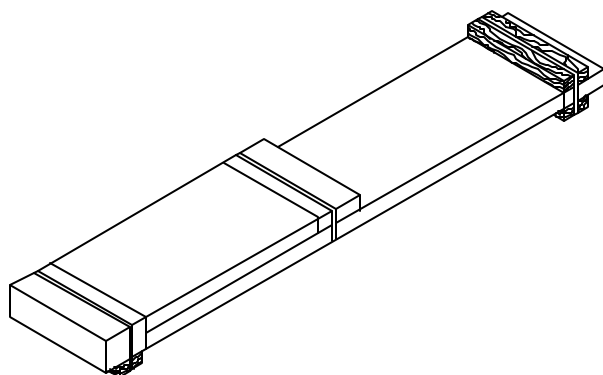


Figure 1

Step 1:

Curb Package is shown as shipped with easy to identify part numbers on all sides. Cut shipping bands and remove Hardware, Gasket, 3 Condensor Pans, and 3 Duct Supports.

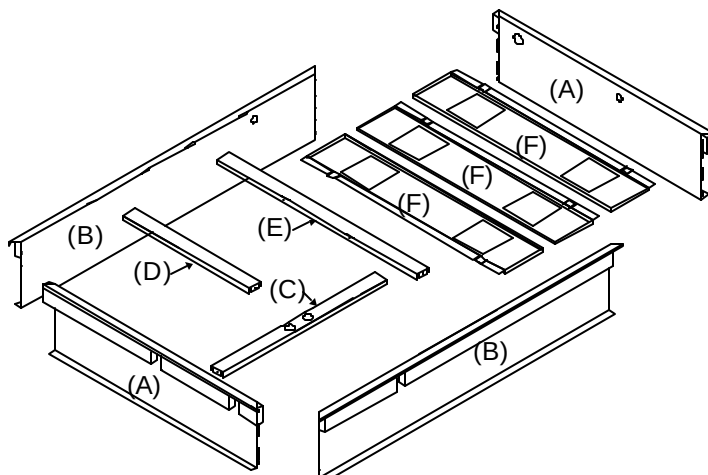
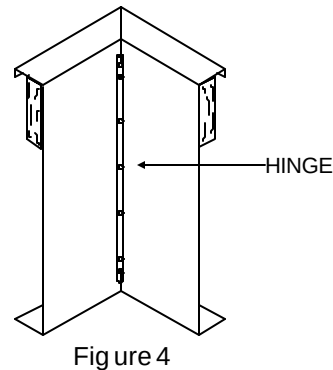
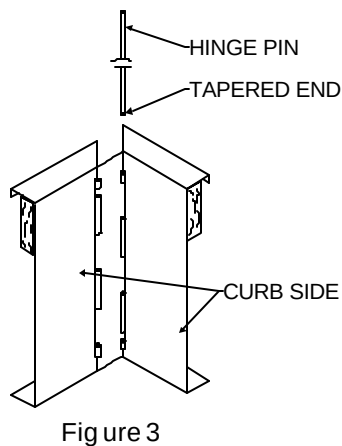


Figure 2

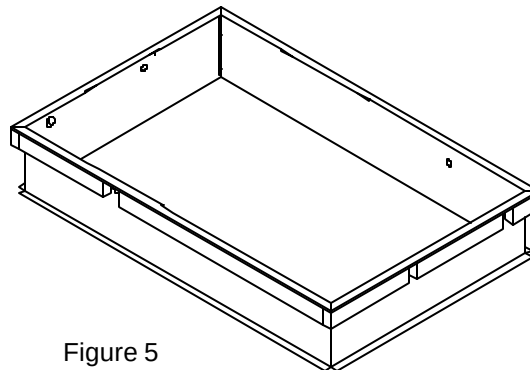
Step 2:

Layout the curb pieces before assembly to insure that all the necessary pieces are included.



STEP 3:

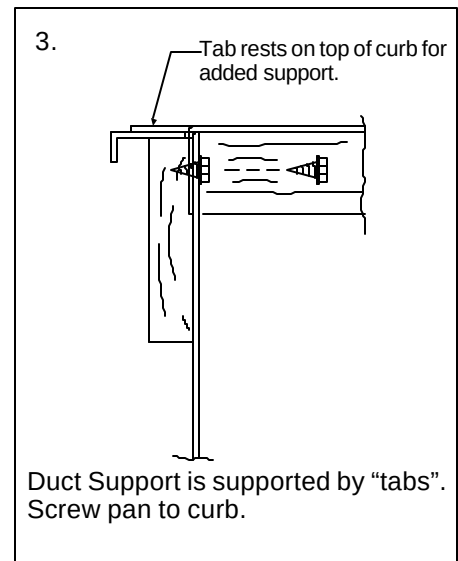
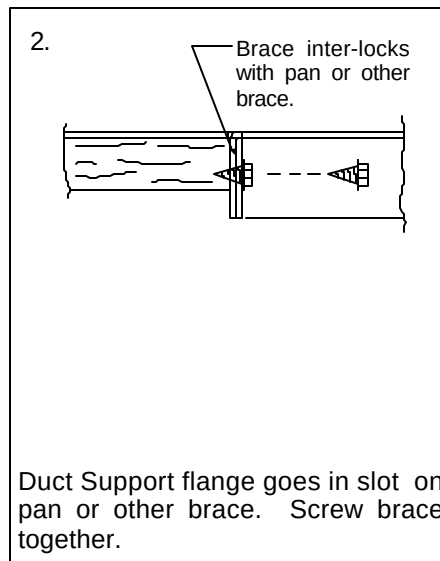
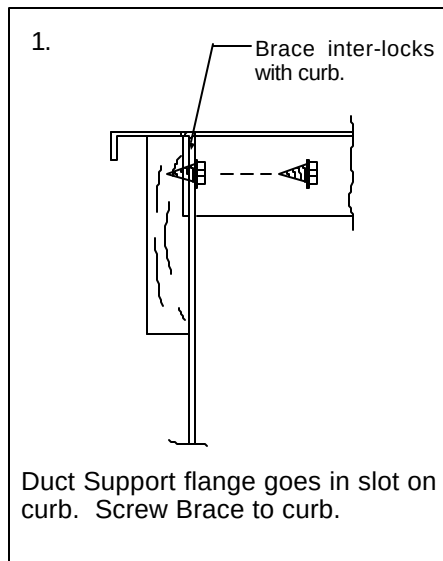
Corner Assembly: Align each curb side as shown in (Figure 3). Using a hammer, drive the curb “hinge” pin down until the top of the pin is below the top of the curb (Figure 4).



STEP 4:

After the four corners are assembled; the curb should be checked to be sure it is in “square”. Do this by measuring diagonally from each opposite corner. The two measurements should be the same for each direction.

DETAILS



Note:

Duct Supports can be located on either end depending on individual applications.

Step 5:

Install the vertical duct supports (E) as shown with opening over the desired duct location (Figure 6).

Step 6:

Install the horizontal duct support (C) as shown (Figure 6).

Step 7:

Install the vertical duct supports (D) as shown (Figure 6).

Step 8:

Install all three condensor pans (F) as shown (Figure 6).

Step 9:

If the curb is being assembled and moved to another location, attach the duct supports and condensor panels as shown in "Details".

Step 10:

Place the $\frac{3}{4}$ " x $1\frac{1}{4}$ " Gasket on all of the top edges of the Roof Curb, including the duct supports.

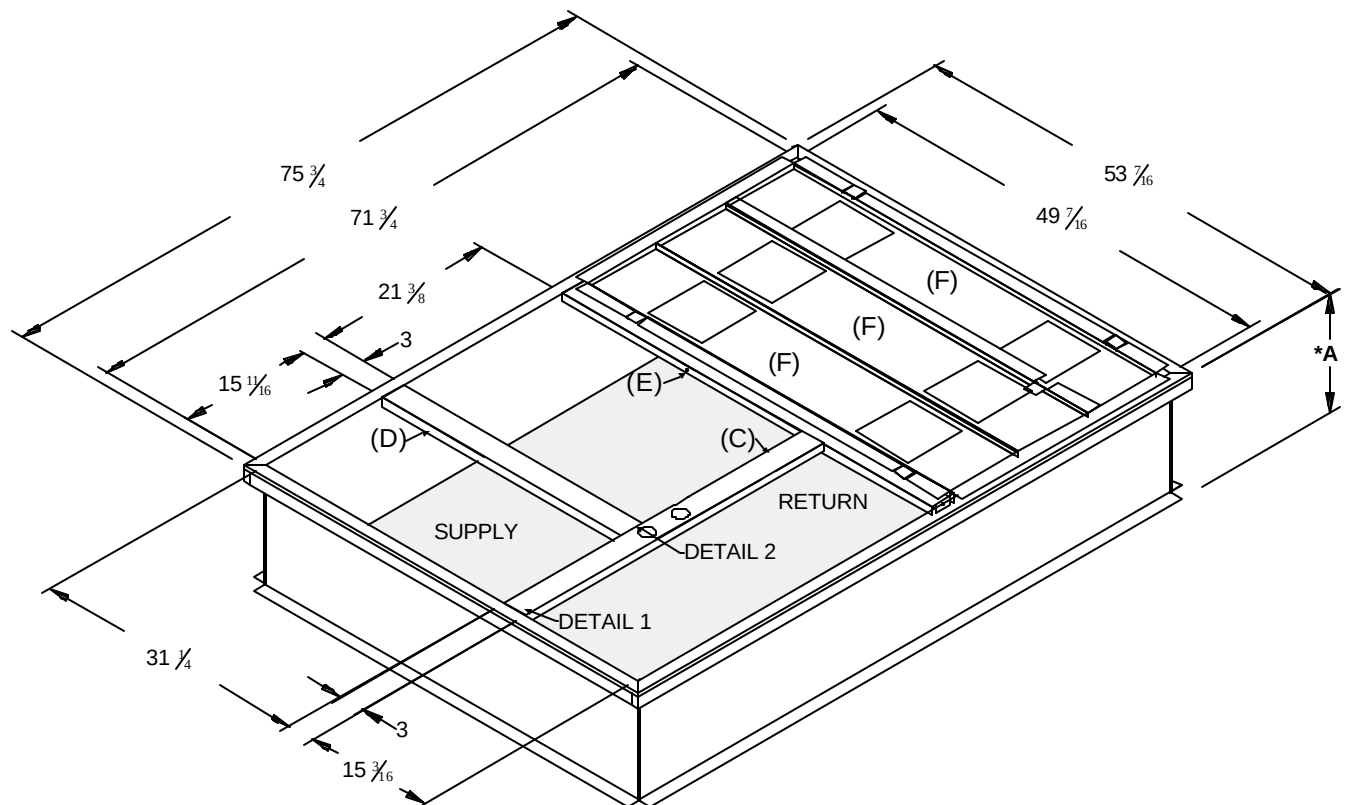


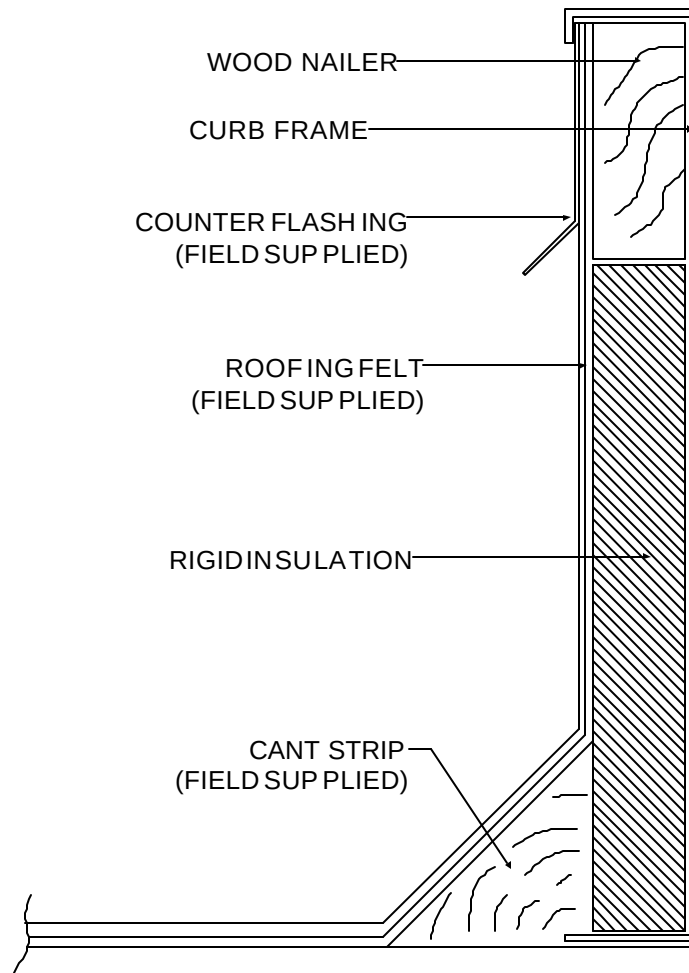
Figure 6

ICP PART NO	PART NO	*A
AXB045 CLA	45-201-1708	8
AXB045 CMA	45-201-1714	14
AXB045 CHA	45-201-1724	24

DUCT SIZES ARE:
Return 15.125 X 39.563
Supply 29.875 X 15.562

ROOF OPENING:
50" Long
40" Wide

ROOF INSTRUCTIONS



INTERNATIONAL COMFORT PRODUCTS

651 HEIL-QUAKER AVE
POST OFFICE BOX 128
LEWISBURG, TENNESSEE 37091
PHONE (931) 359-3511
FAX (931) 270-4199

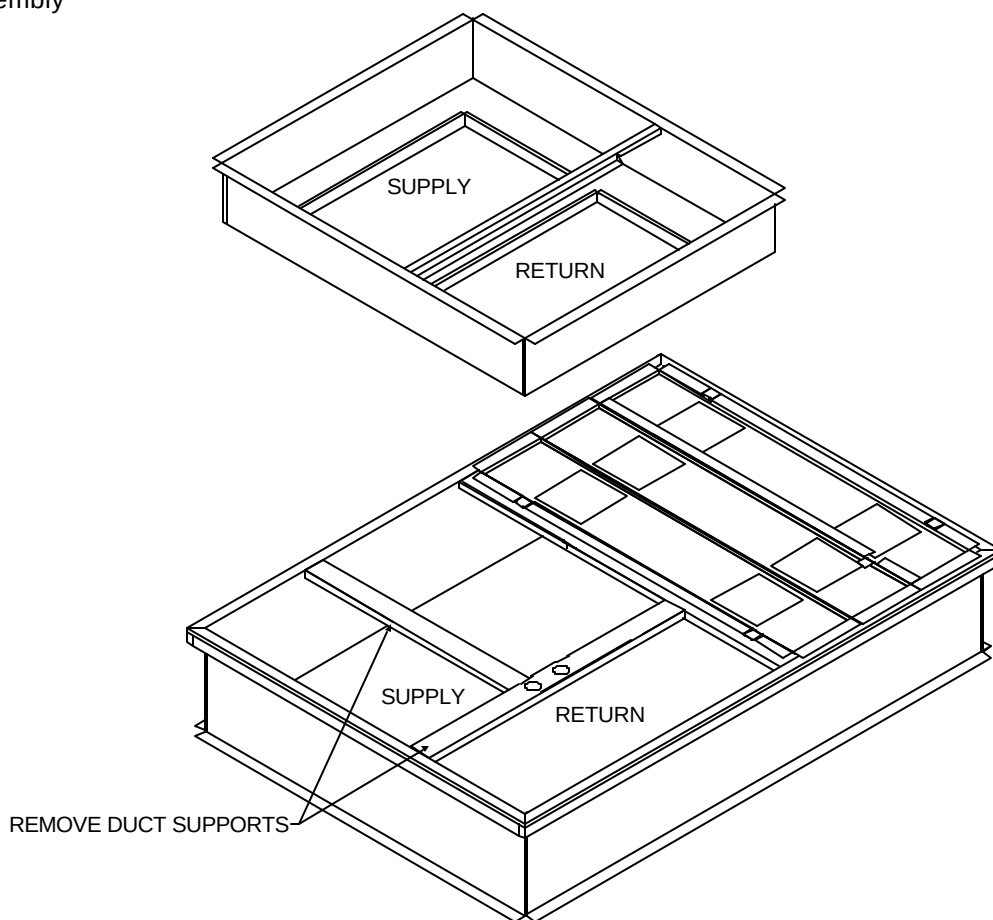
INSTALLATION INSTRUCTIONS MODEL AXB445/545/645 CTA CONCENTRIC CURB TRANSITION

The Concentric Curb Transition is designed to drop into the curb and convert the square duct unit connections to round duct. For use with:

AXB045CLA
AXB045CMA
AXB045CHA

TRANSITION#	ROOF CURB#	DUCT SIZE
AXB445CTA	AXB045CLA	20" ROUND
AXB545CTA	AXB045CMA	18 X 28 RECT ANGLE
AXB645CTA	AXB045CHA	18 X 32 RECT ANGLE

Roof Curb Assembly



STEP 1:

Check for correct part number listed above.

STEP 2:

Remove duct supports from roof curb.

STEP 3:

Install transition in supply/return opening in roof curb.

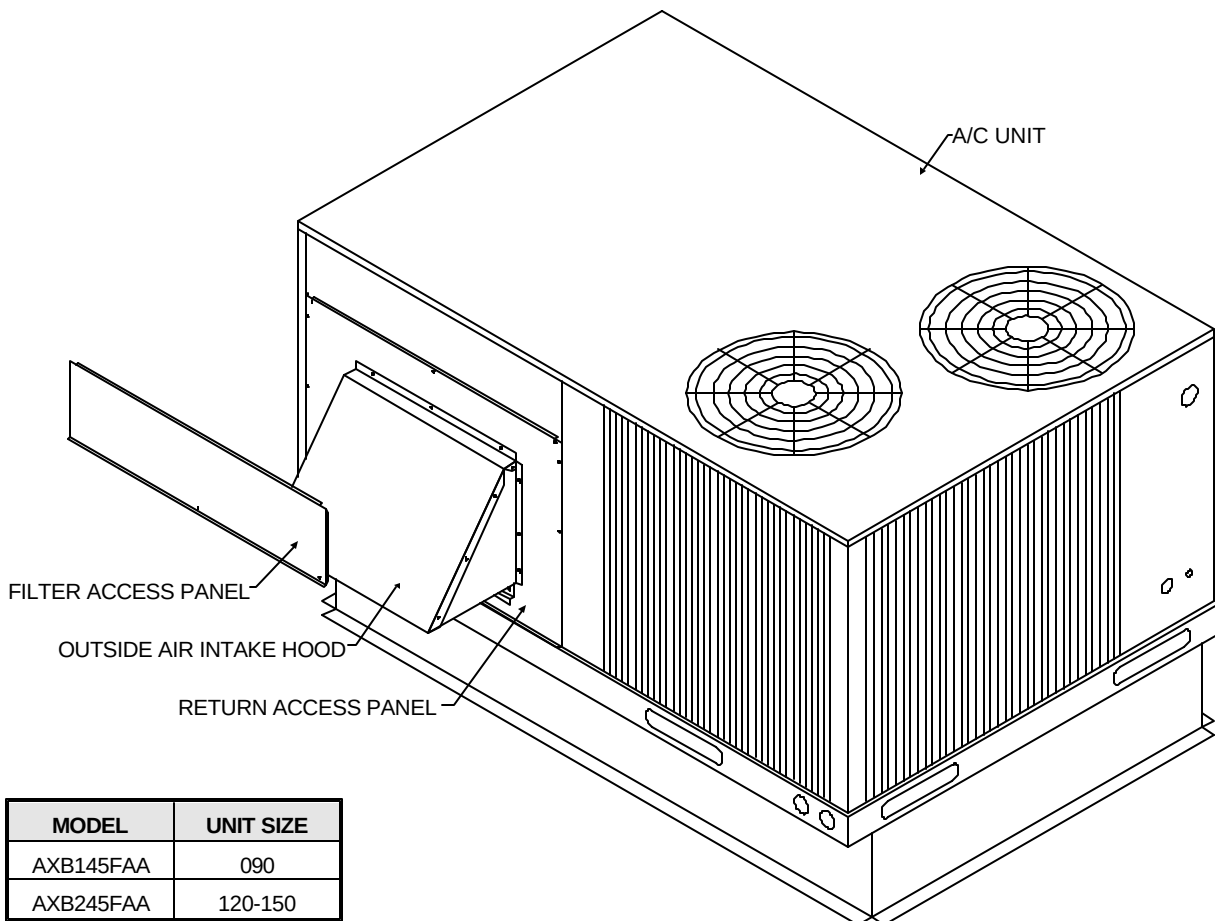
STEP 4:

Place $\frac{3}{4}$ " X $1\frac{1}{4}$ " gasket (included with the curb only) as instructed in roof curb installation sheet.

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The 0-35% manual outside air system is designed to replace the unit return access panel. The amount of outside air is controlled by simply adjusting the slide damper. The panel is fully insulated.



STEP 1:

Check for correct number of parts. See list below:

- 1 ea. - Outside Air Intake panel assembly with hood and slide damper.
- 1 ea. - Filter Access Panel.

STEP 2:

Remove return access panel from unit, and save the screws.

STEP 3:

Install outside air assembly as shown with the screws removed in Step 2.

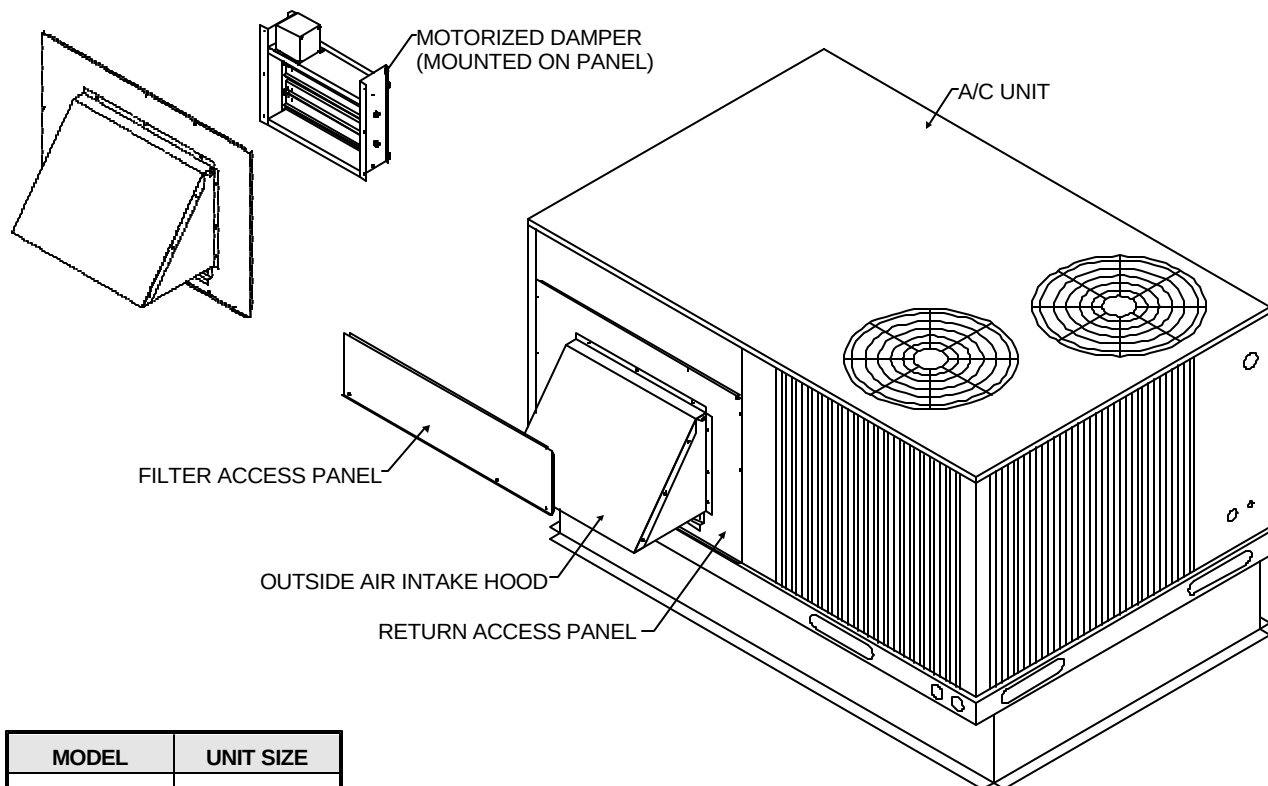
STEP 4:

Adjust the slide damper to the desired position.

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The 0-35% motorized outside air system is designed to replace the unit return access panel. The amount of outside air is controlled by a motorized damper. The panel is fully insulated.



MODEL	UNIT SIZE
AXB145FMA	090
AXB245FMA	120-150

STEP 1:

Check for correct number of parts. See list below:

- 1 ea. - Outside Air Intake panel assembly with hood and motorized damper.
- 1 ea. - Filter Access Panel.

STEP 2:

Remove return access panel from unit, and save the screws.

STEP 3:

Connect harness to unit plug.

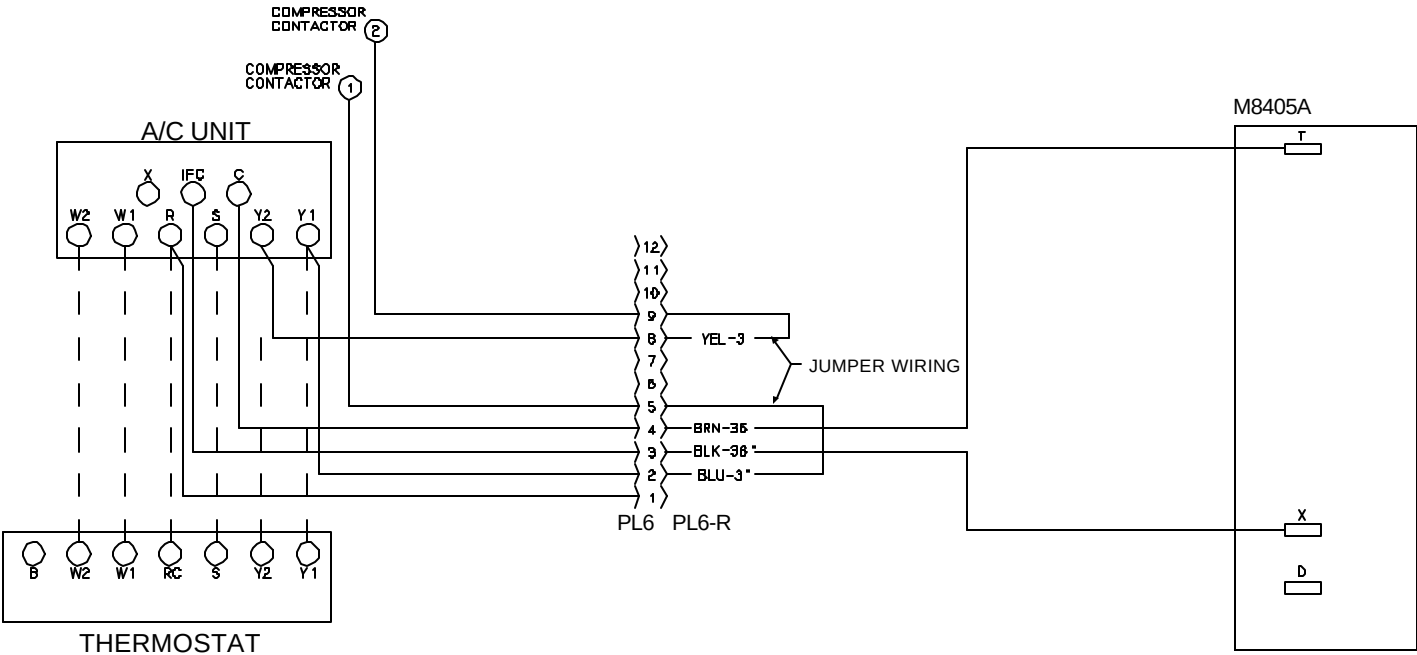
STEP 4:

Install outside air assembly as shown with the screws removed in Step 2.

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HARNESS DETAIL		COMPONENT CODE	WIRE COLOR CODE			
E# = WIRE END DESIGNATION		Economizer				
E2	STUD #6 18 Ga. Wire	M8405A	BLK	Black	BLU	Blue
E3	Female ¼ Quick Disc.		BRN	Brown	YEL	Yellow
E4	Male ¼ Quick Disc. Insul					
E6	Wire Nut Size 73B					
HARNESS ENDS AT PL6-R		Damper Actuator 24v				



CONNECTOR & CONTACT CONNECTION
PL6-R (303929) PLUG - (303926) SOCKET

Notes:
1. Unit wir ing shown as ref er ence only. Check unit wir ing for ac tual unit wir ing.

0- 35% Motorized Damper PGS/PAS 090- 150 PHS 090-120	
Int'l Comfort Products 651 Heil- Quaker Ave Post Of fice Box 128 Lewis burg, TN 37091 Phone (931) 359- 3511 Fax (931) 270- 4199	Date: March 19, 2002
	Supercedes:
	Drawn by:
	Unit # 45- 287- 17/18
Diagram# 28717W	

Economizers are used with 7 ½ - 12 ½ ton units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

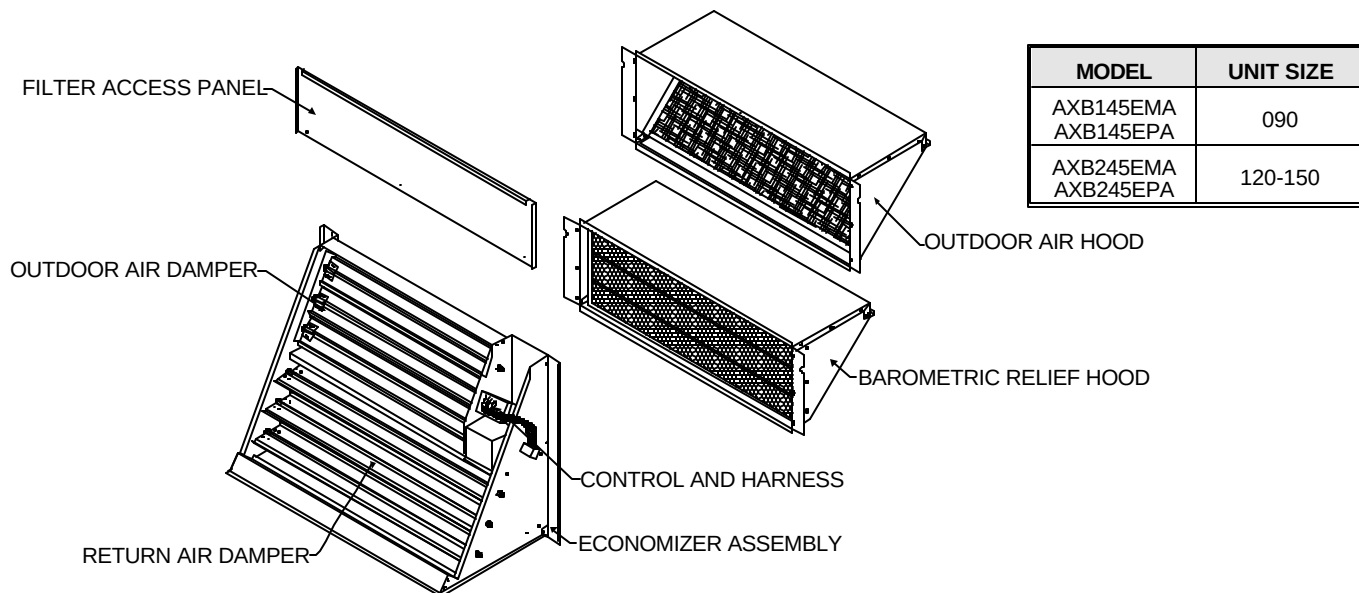


Figure 1

STEP 1:

Check for correct number of parts. See list below.

- 1 -Economizer Assembly (Discharge Air Sensor Included)
- 1 -Barometric Relief Hood
- 1 -Outdoor Air Hood
- 1 -Filter Access Panel
- 1 -Bag Hardware

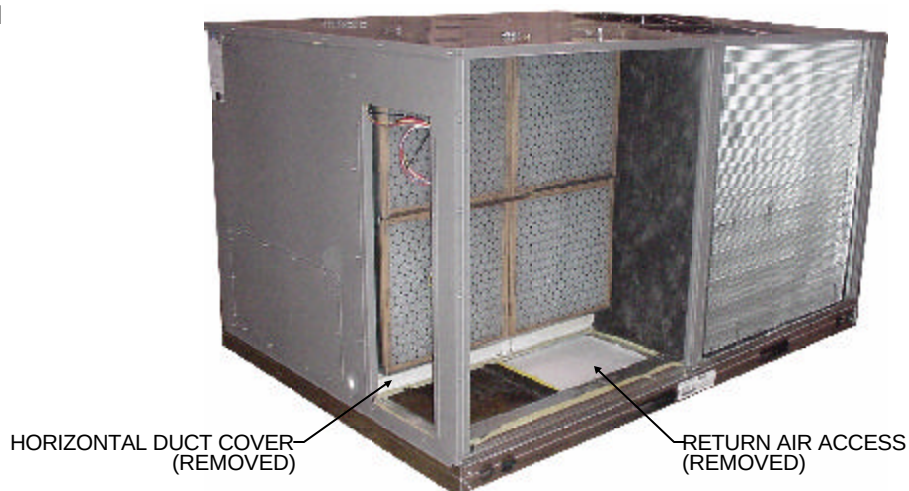


Figure 2

STEP 2:

Disconnect all power to unit.

STEP 3:

Remove return air access panel from unit, shown in Figure 2.

STEP 4:

Remove the outdoor air hood the economizer assembly. (See Figure 2).

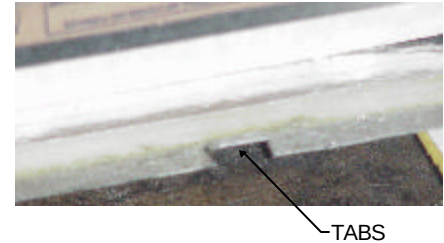
STEP 5:

Remove the barometric relief hood from the economizer assembly.



Figure 3

Back flange of economizer must fit under these tabs in unit duct flange.



STEP 6:

Slide Economizer assembly into unit over return opening. Secure economizer with the screws from step 3 starting at the bottom flange of economizer. See Figure 3.

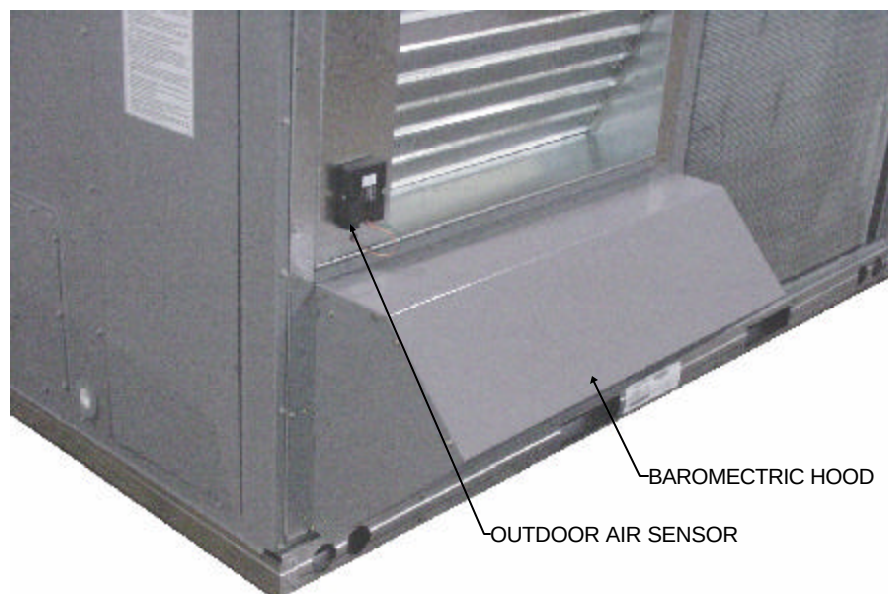


Figure 4

STEP 7:

Once the economizer is in place take the barometric hood and secure to economizer using screws from step 5. See Figure 4.

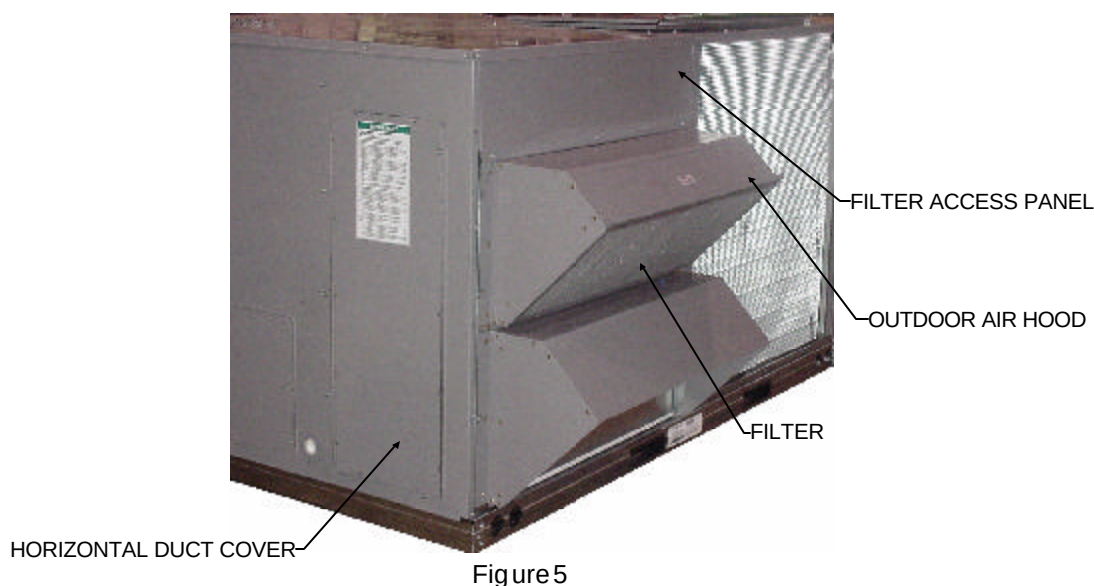


Figure 5

STEP 8:

Install the outside air hood. Its upper flange should rest against the top of the economizer.

STEP 9:

Insert filter access panel under top of unit and over top flange of outdoor air hood with #10 - 16 x ½ screws provided.

STEP 10:

Remove horizontal duct cover to connect wire harness shown in figure 6.

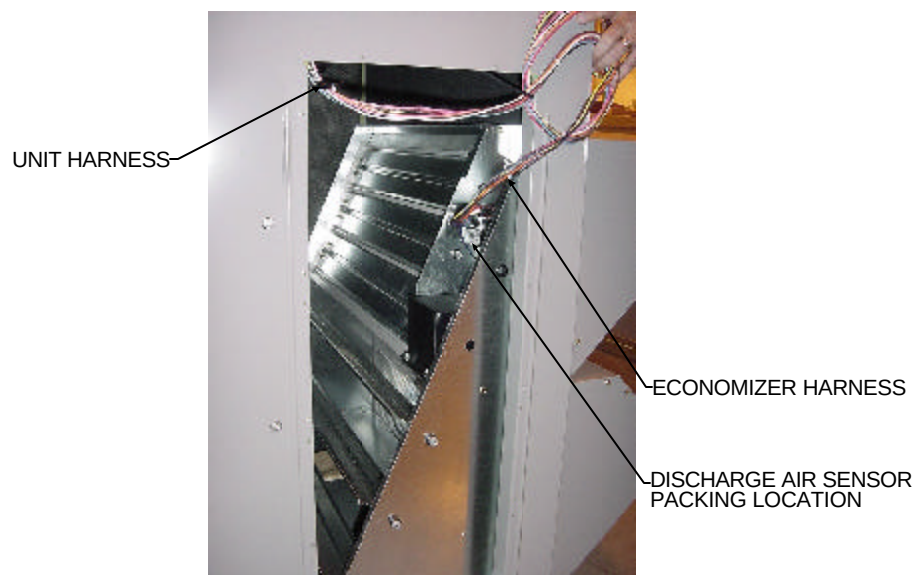


Figure 6

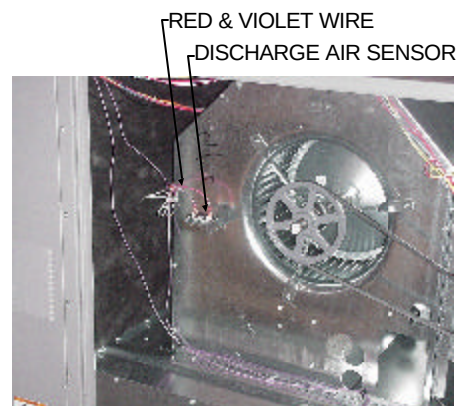


Figure 7

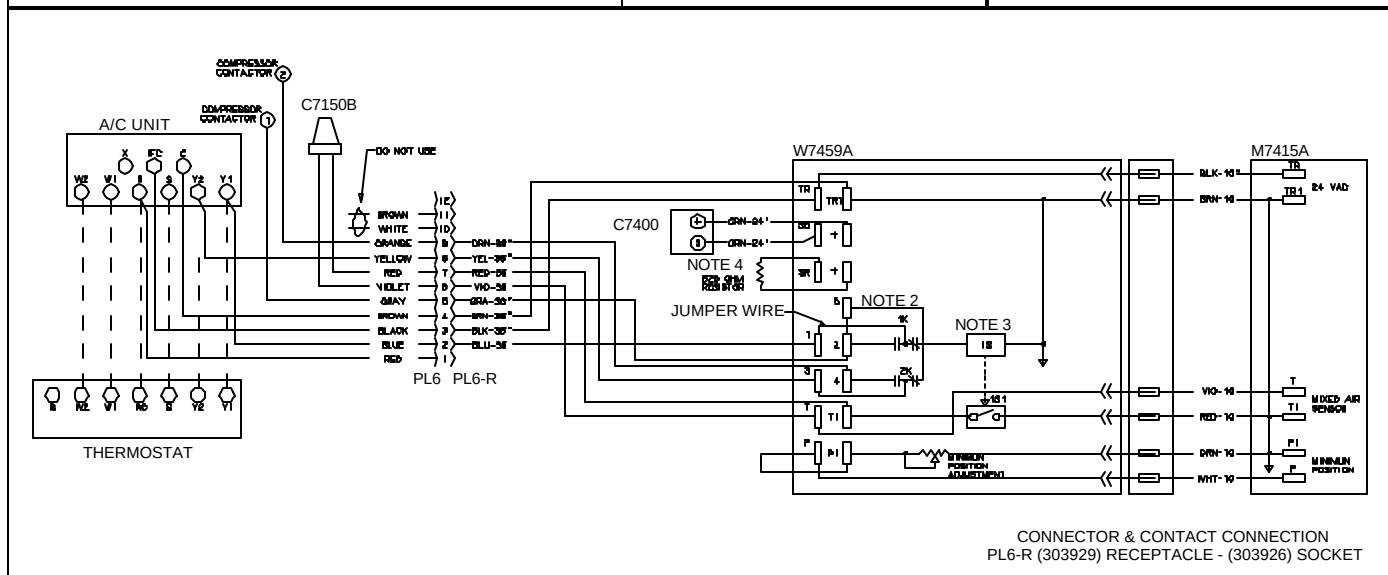
STEP 11:

Open blower access panel to install the discharge air sensor as shown in Figure 7. Connect red and violet wires to sensor.

STEP 12:

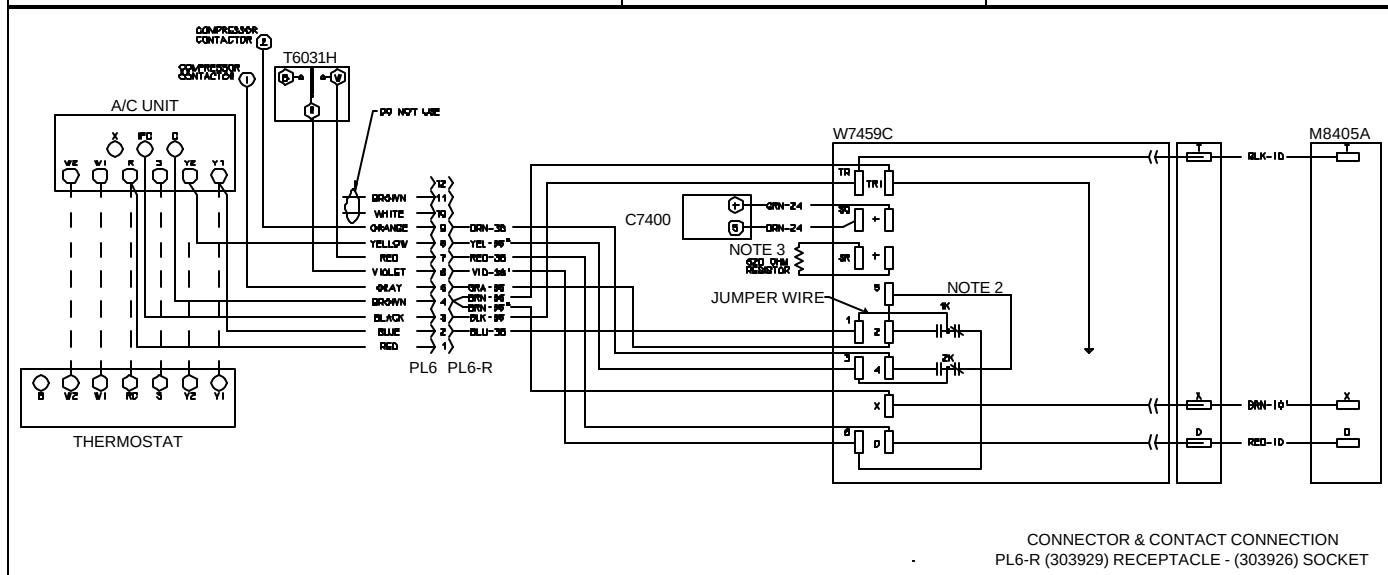
Replace all panels and restore power to the unit.

HARNESS DETAIL	COMPONENT CODE	WIRE COLOR CODE
E# = WIRE END DESIGNATION E2 STUD #6 18 Ga. Wire E3 Female 3/4 Quick Disc. E4 Male 3/4 Quick Disc. In sul E6 Wire Nut Size 73B HARNESS ENDS AT PL6-R	Economizer C7400 Fresh Air Sensor M7415A Damper Actuator 24v C7150B Mixed Air Sensor W7459A Logic Module	BLK Black BLU Blue BRN Brown GRA Gray GRN Green ORN Orange RED Red VIO Violet WHT White YEL Yellow



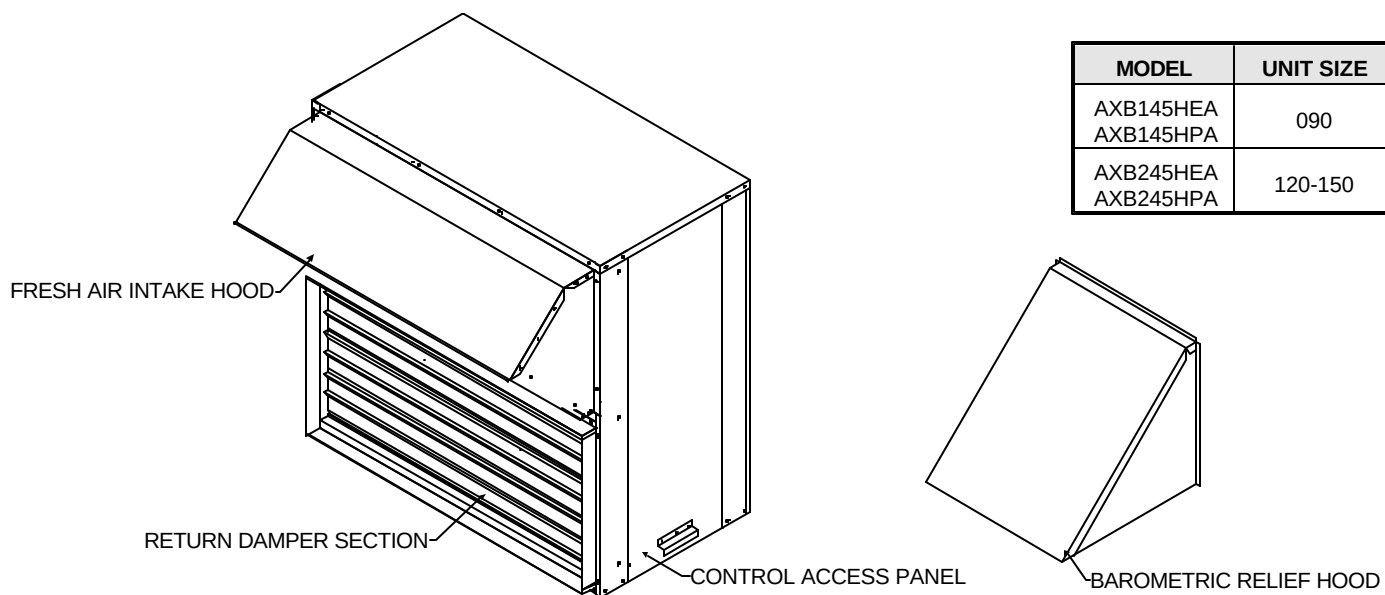
Notes: 1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring. 2. Relays 1K and 2K actuate when the Out door Air Enthalpy is lower than the Return Air Enthalpy. 3. 1S is an electronic switch which closes when powered by a 24 VAC in put. 4. Factory installed resistor should be removed only if C7400 Differential Enthalpy Sensor is added.	Modulating Economizer w/ Relief AXB145EMA / AXB245EMA Int'l Comfort Products 651 Heil- Quaker Ave PO Box 128 Lewisburg, TN 37091 Phone (931) 359-3511 Fax (931) 270-4199	Date: March 5, 2002 Supersedes: Drawn by: Unit# 45-364-17/18 Diagram# 36417W
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HARNESS DETAIL	COMPONENT CODE	WIRE COLOR CODE
E# = WIRE END DESIGNATION E2 STUD #6 18 Ga. Wire E3 Female 3/4 Quick Disc. E4 Male 3/4 Quick Disc. In sul E6 Wire Nut Size 73B HARNESS ENDS AT PL6-R	Economizer C7400 Fresh Air Sensor M8405A Damper Actuator 24v T6031H Mixed Air Sensor W7459C Logic Module	BLK Black BLU Blue BRN Brown GRA Gray GRN Green ORN Orange RED Red VIO Violet YEL Yellow



Notes: 1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring. 2. Relays 1K and 2K actuate when the Out door Air Enthalpy is lower than the Return Air Enthalpy. 3. Factory installed resistor should be removed only if C7400 Differential Enthalpy Sensor is added.	3-Position Economizer w/ Relief AXB145EPA / AXB245EPA Int'l Comfort Products 651 Heil- Quaker Ave PO Box 128 Lewisburg, TN 37091 Phone (931) 359-3511 Fax (931) 270-4199	Date: March 5, 2002 Supersedes: Drawn by: Unit# 45-365-17/18 Diagram# 36517W
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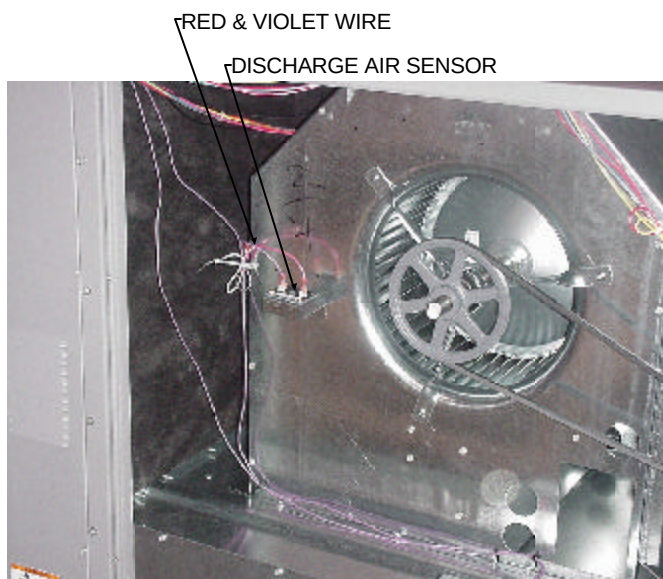
Horizontal Economizers are used with 7.5 - 12.5 ton units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.



STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly
- 1 - Barometric Relief Hood
- 1 - Wiring Diagram Sticker
- 4 - #10 - 16 x ½ Hex Tec Screws



STEP 2:

Disconnect all power to unit.

STEP 3:

Remove discharge air sensor from economizer. Remove blower access panel. Install the discharge sensor in blower section of the unit as shown.

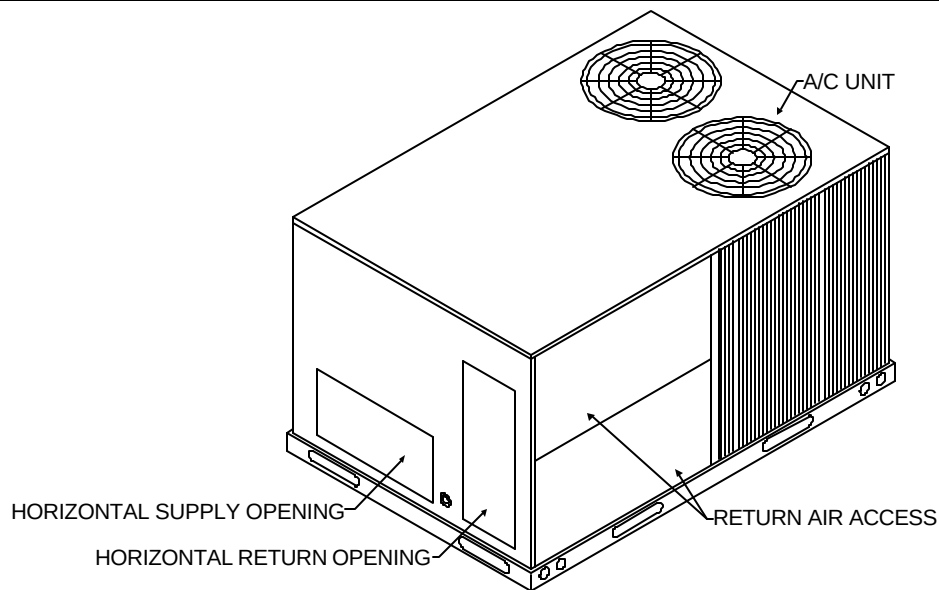


Figure 3

STEP 4:

Remove the return air access panel and horizontal duct cover. Economizer cable is to be routed through horizontal duct open. Make the connection of the Economizer plug to the unit Economizer plug.

STEP 5:

Remove control access panel. Secure Economizer to unit using screws from Step 4 (See Figure 4).

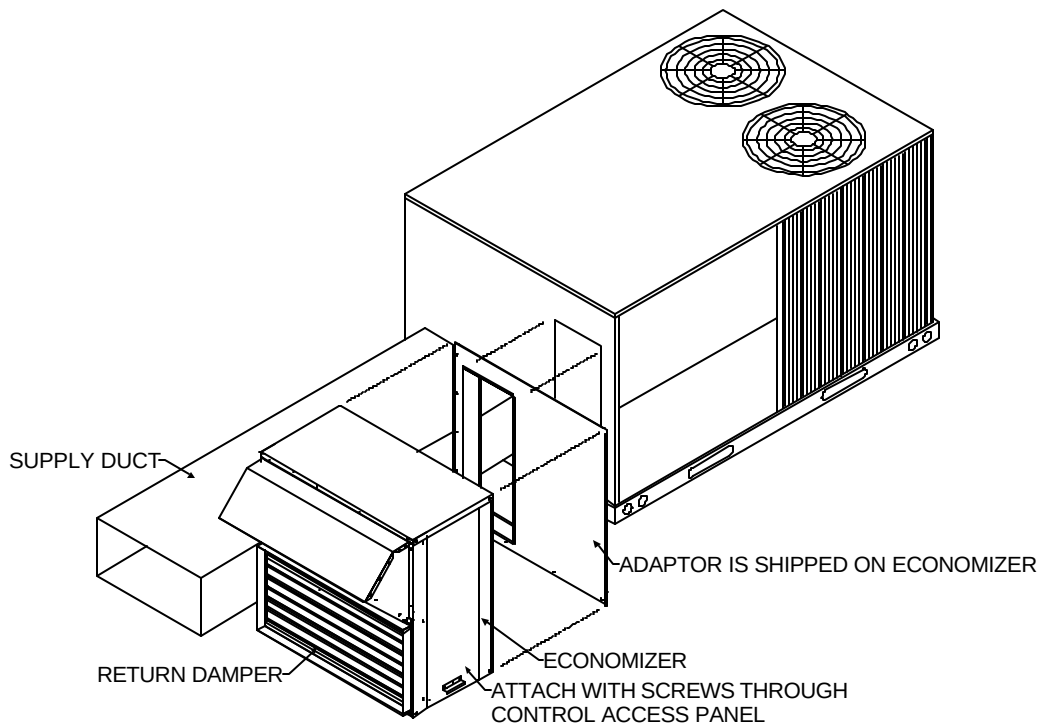


Figure 4

STEP 6:

Replace blower access panel and return access panels on unit.

STEP 7:

Attach and seal weather tight return duct to Economizer.

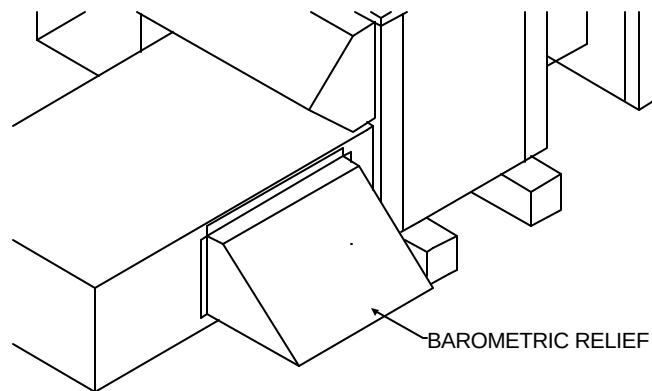


Figure 5

STEP 8:

If the barometric relief is to be installed cut a 18" x 20" hole in the return air duct near Economizer. (See Figure 5).

STEP 9:

Secure pressure relief damper near Economizer over hole in return air duct using (4) screws. Refer to Figure 5.

STEP 10:

Place the adhesive backed wiring diagram on the low voltage compartment access door by the unit diagram. Reinstall low voltage compartment access panel.

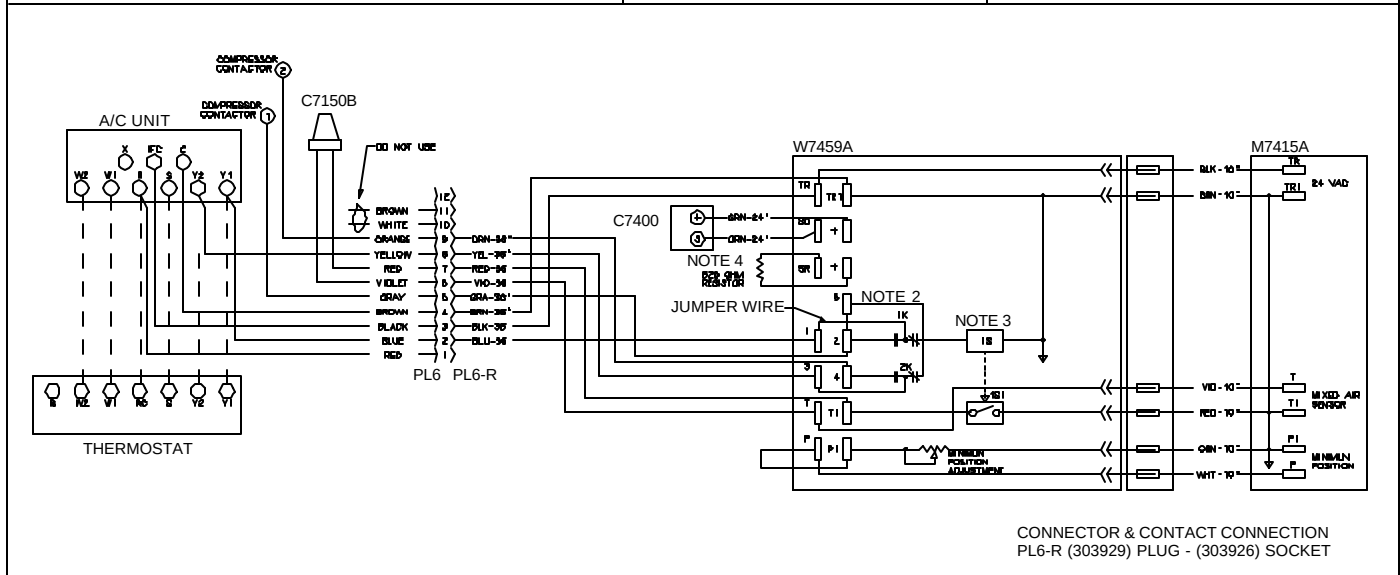
STEP 11:

See the enclosed Honeywell® specification data for operation and check out.

STEP 12:

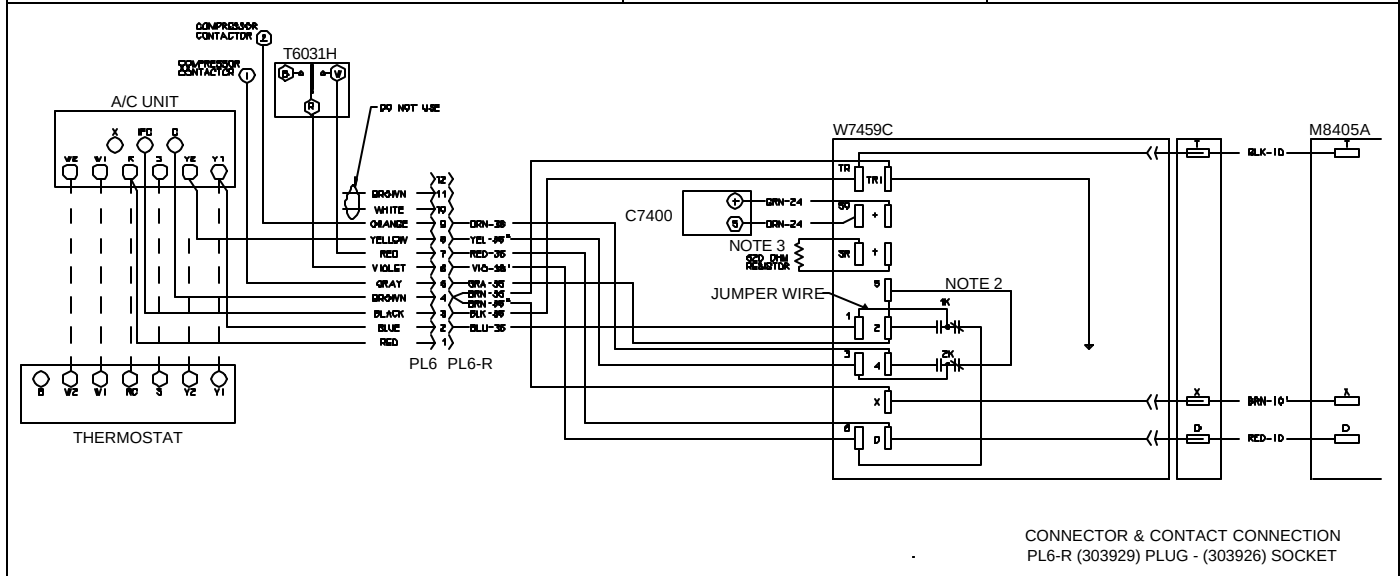
Turn power back on to the unit.

HARNESS DETAIL	COMPONENT CODE	WIRE COLOR CODE
E# = WIRE END DESIGNATION E2 STUD #6 18 Ga. Wire E3 Female 3/4 Quick Disc. E4 Male 3/4 Quick Disc. In sul E6 Wire Nut Size 73B	Economizer C7400 Fresh Air Sensor M7415A Damper Actuator 24v C7150B Mixed Air Sensor W7459A Logic Module	BLK Black BLU Blue BRN Brown GRA Gray GRN Green ORN Orange RED Red VIO Violet WHT White YEL Yellow
HARNESS ENDS AT PL6-R		



Notes:	Modulating Horizontal Economizer w/ Relief AXB145HEA / AXB245HEA
1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring. 2. Relays 1K and 2K activate when the Outdoor Air Enthalpy is lower than the Return Air Enthalpy. 3. 1S is an electronic switch which closes when powered by a 24 VAC in put. 4. Factory installed resistor should be removed only if C7400 Differential Enthalpy Sensor is added.	Int'l Comfort Products 651 Heil-Quaker Ave PO Box 128 Lewisburg, TN 37091 Phone (931) 359-3511 Fax (931) 270-4199
	Date: April 11, 2002 Supercedes: Drawn by: Unit # 45-334-17/18 Diagram # 33417W

HARNESS DETAIL	COMPONENT CODE	WIRE COLOR CODE
E# = WIRE END DESIGNATION E2 STUD #6 18 Ga. Wire E3 Female 3/4 Quick Disc. E4 Male 3/4 Quick Disc. In sul E6 Wire Nut Size 73B	Economizer C7400 Fresh Air Sensor M8405A Damper Actuator 24v T6031H Mixed Air Sensor W7459C Logic Module	BLK Black BLU Blue BRN Brown GRA Gray GRN Green ORN Orange RED Red VIO Violet YEL Yellow
HARNESS ENDS AT PL6-R		



Notes:	3-Position Horizontal Economizer w/ Relief AXB145HPA / AXB245HPA
1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring. 2. Relays 1K and 2K activate when the Outdoor Air Enthalpy is lower than the Return Air Enthalpy. 3. Factory installed resistor should be removed only if C7400 Differential Enthalpy Sensor is added.	Int'l Comfort Products 651 Heil-Quaker Ave PO Box 128 Lewisburg, TN 37091 Phone (931) 359-3511 Fax (931) 270-4199
	Date: April 11, 2002 Supercedes: Drawn by: Unit # 45-335-17/18 Diagram # 33517W

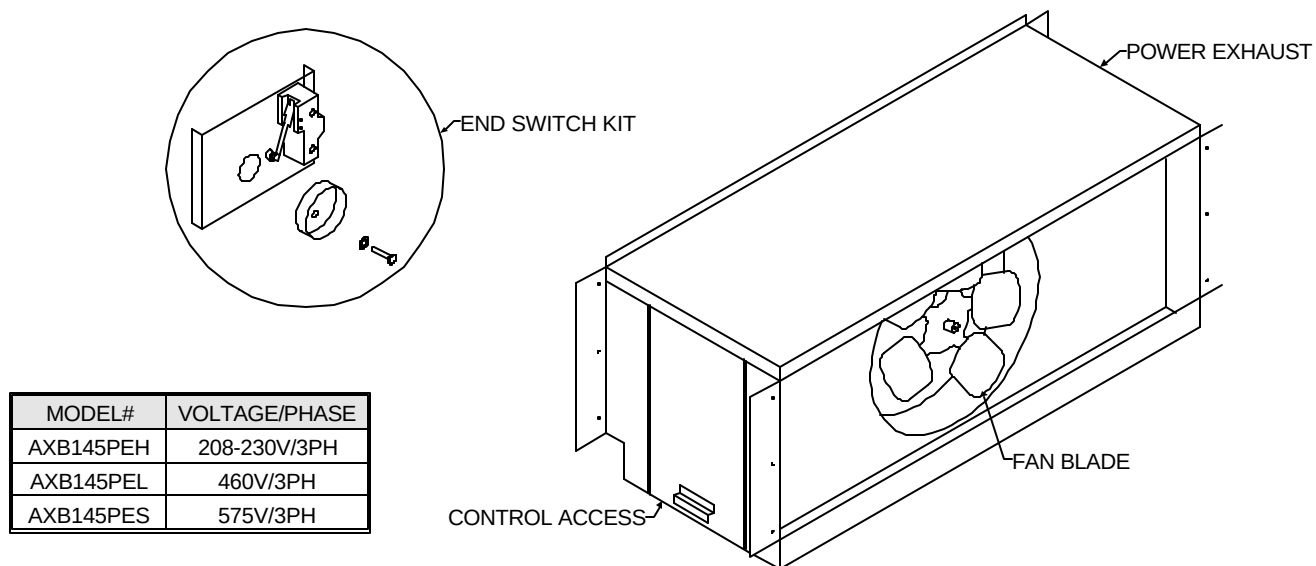


Figure 1

STEP 1:

Check for correct number of parts. See list below.

- 1 - Power Exhaust Assembly
- 1 - End Switch Kit
- 1 - Hardware Bag

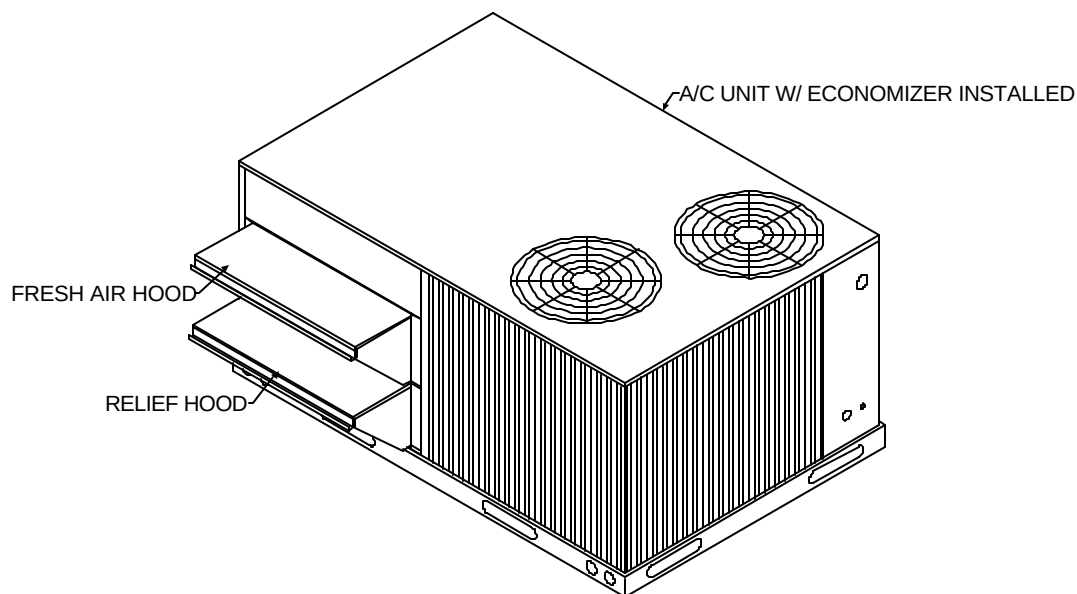


Figure 2

STEP 2:

Disconnect all power to unit.

STEP 3:

Remove the relief hood of economizer and retain the screws.

STEP 4:

Install the power exhaust where relief hood was mounted using same holes and screws from step 3.

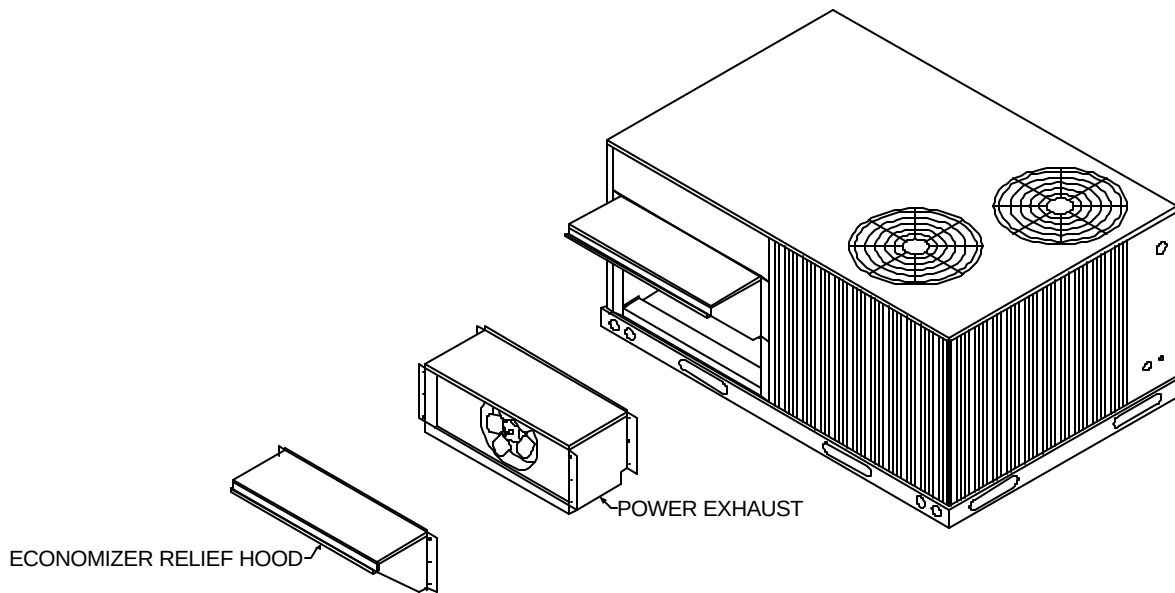


Figure 3

STEP 5:

Reinstall economizer relief hood over front of power exhaust using screws provided.

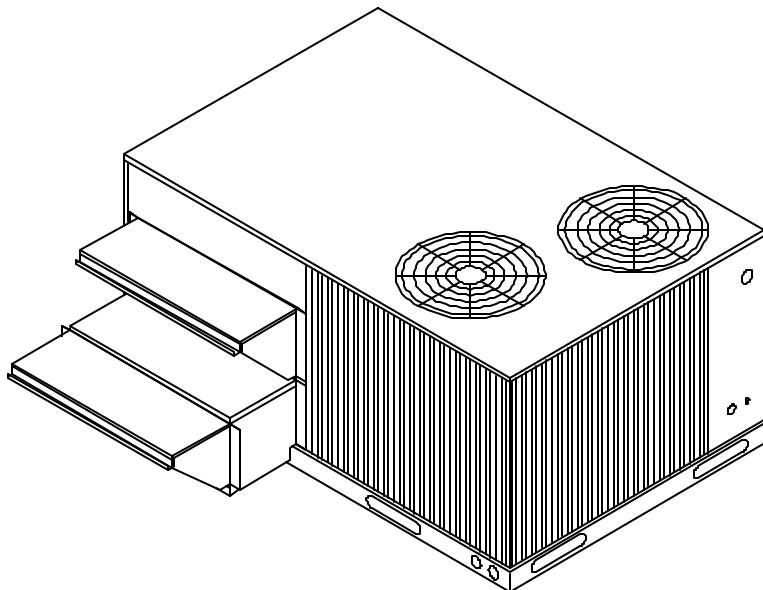


Figure 4

STEP 6:

Install end switch kit to economizer using prepunched holes in economizer frame. Set cam over damper blade pivot and secure with self tapping screws w/ washer provided.

STEP 7:

End switch wires through economizer side panel and connect to end switch per diagram.

INSTALLATION INSTRUCTIONS

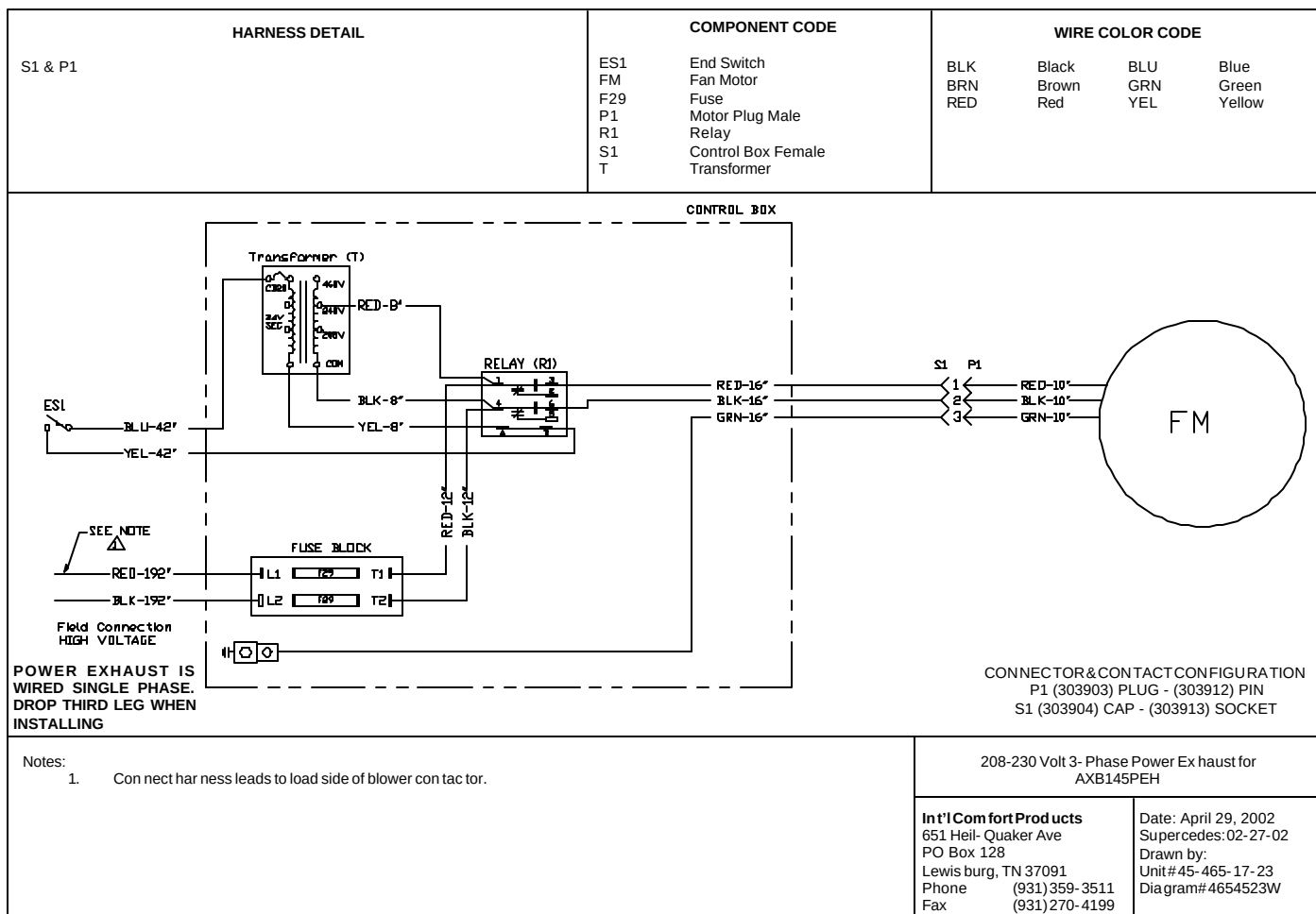
AXB145PEH/AXB145PEL/AXB145PES

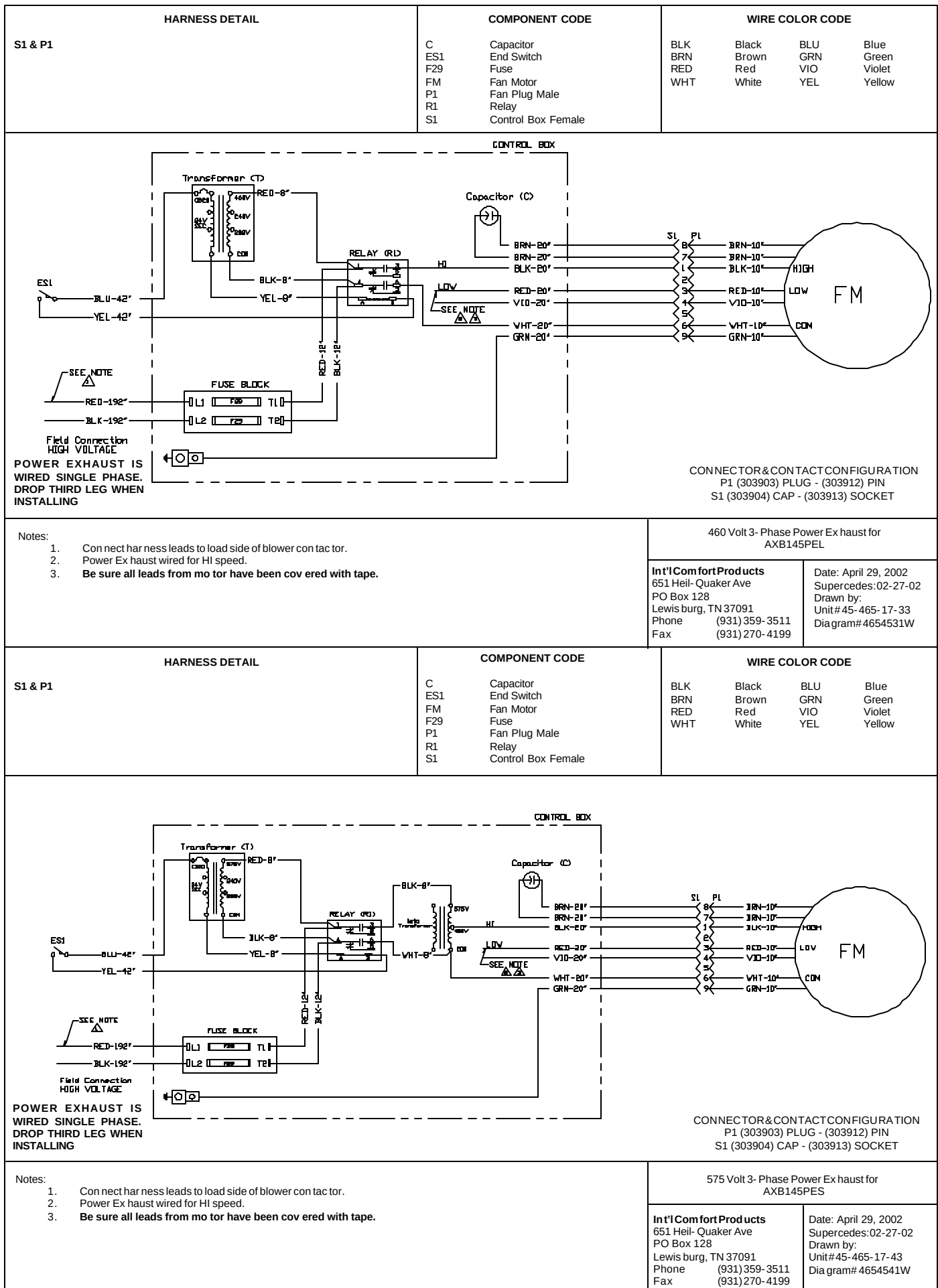
POWER EXHAUST



Figure 5

VOLT	PHASE	MOTOR			UNIT								
		QTY	HP	RPM	CIR. QTY	LRA	FLA	MCA	FUSE SIZE	@ 0.0		@ 0.3	
-2 (208/230)	3	1	1/2	1725	1	10.2	4.3	5.4	8	CFM	RPM	CFM	RPM
-3 (460)				1625		4.1	1.7	2.2	5	2400	1725	2100	1725
-4 (575)										2300	1625	2000	1625





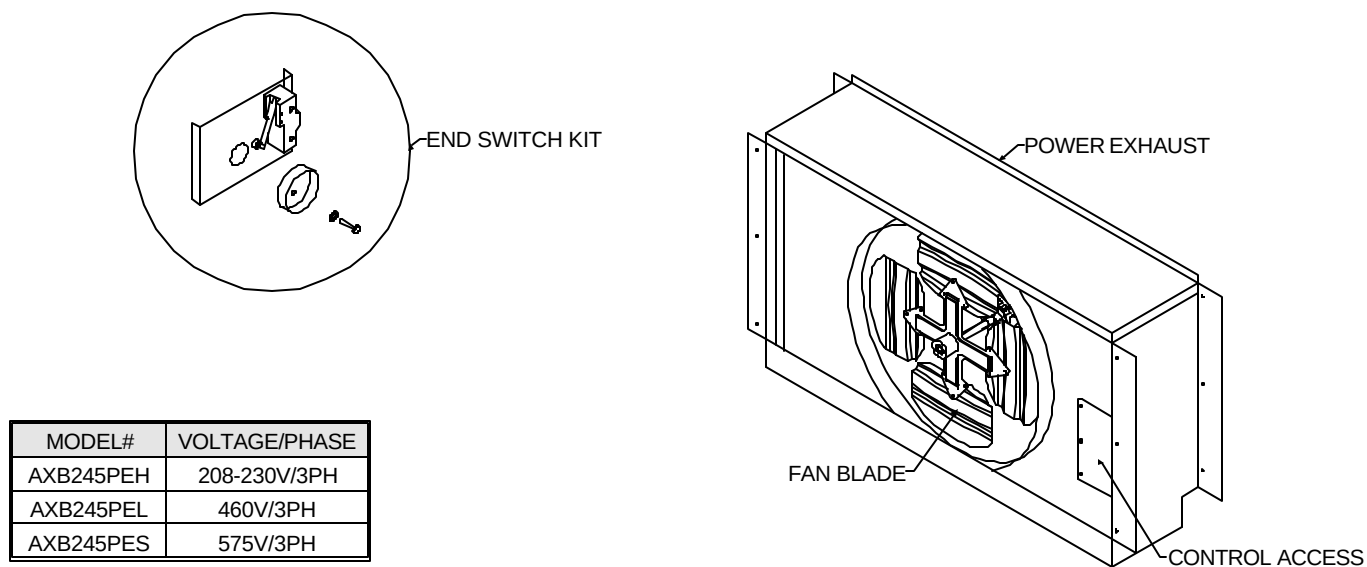


Figure 1

STEP 1:

Check for correct number of parts. See list below.

- 1 - Power Exhaust Assembly
- 1 - End Switch Kit
- 1 - Hardware Bag

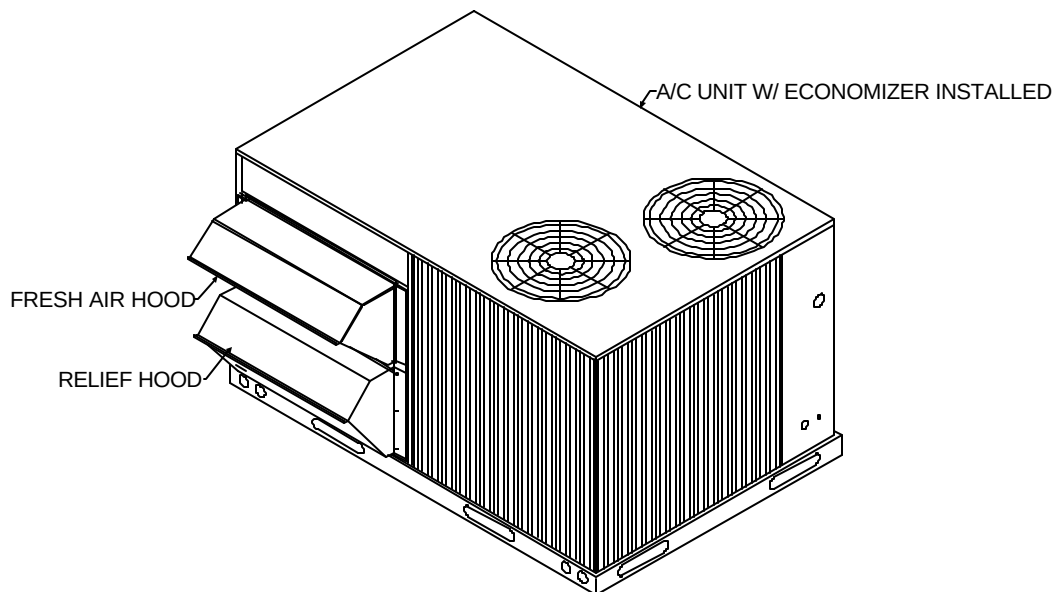


Figure 2

STEP 2:

Disconnect all power to unit.

STEP 3:

Remove the relief hood of economizer and retain the screws.

STEP 4:

Install the power exhaust where relief hood was mounted using same holes and screws from step 3.

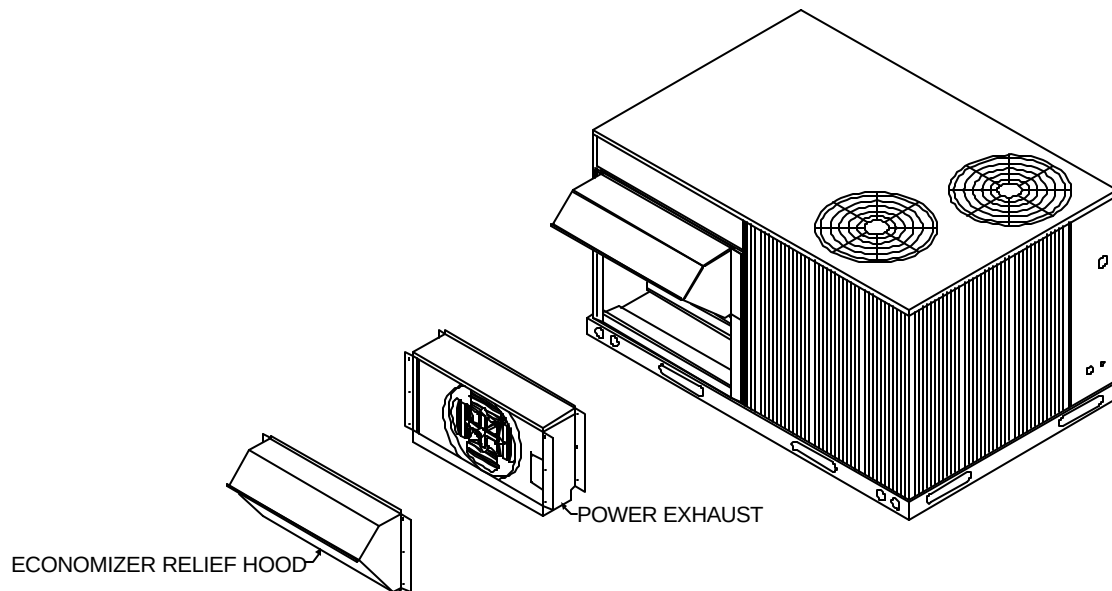


Figure 3

STEP 5:

Reinstall economizer relief hood over front of power exhaust using screws provided.

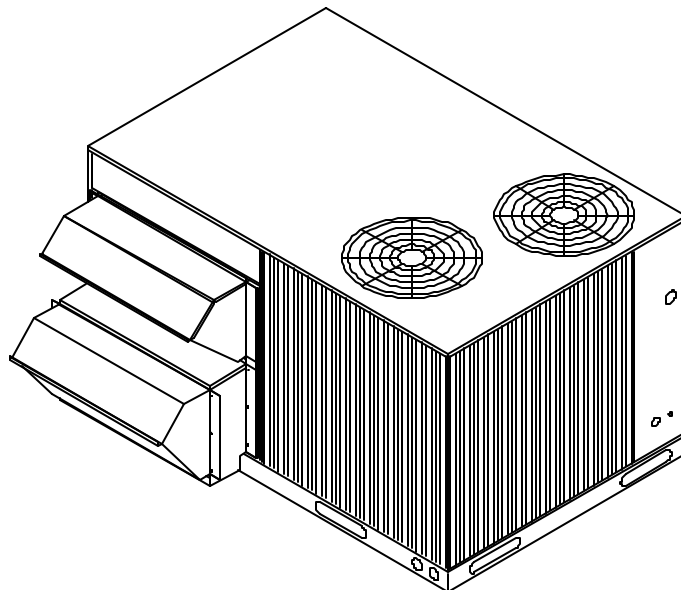


Figure 4

STEP 6:

Install end switch kit to economizer using prepunched holes in economizer frame. Set cam over damper blade pivot and secure with self tapping screws w/ washer provided.

STEP 7:

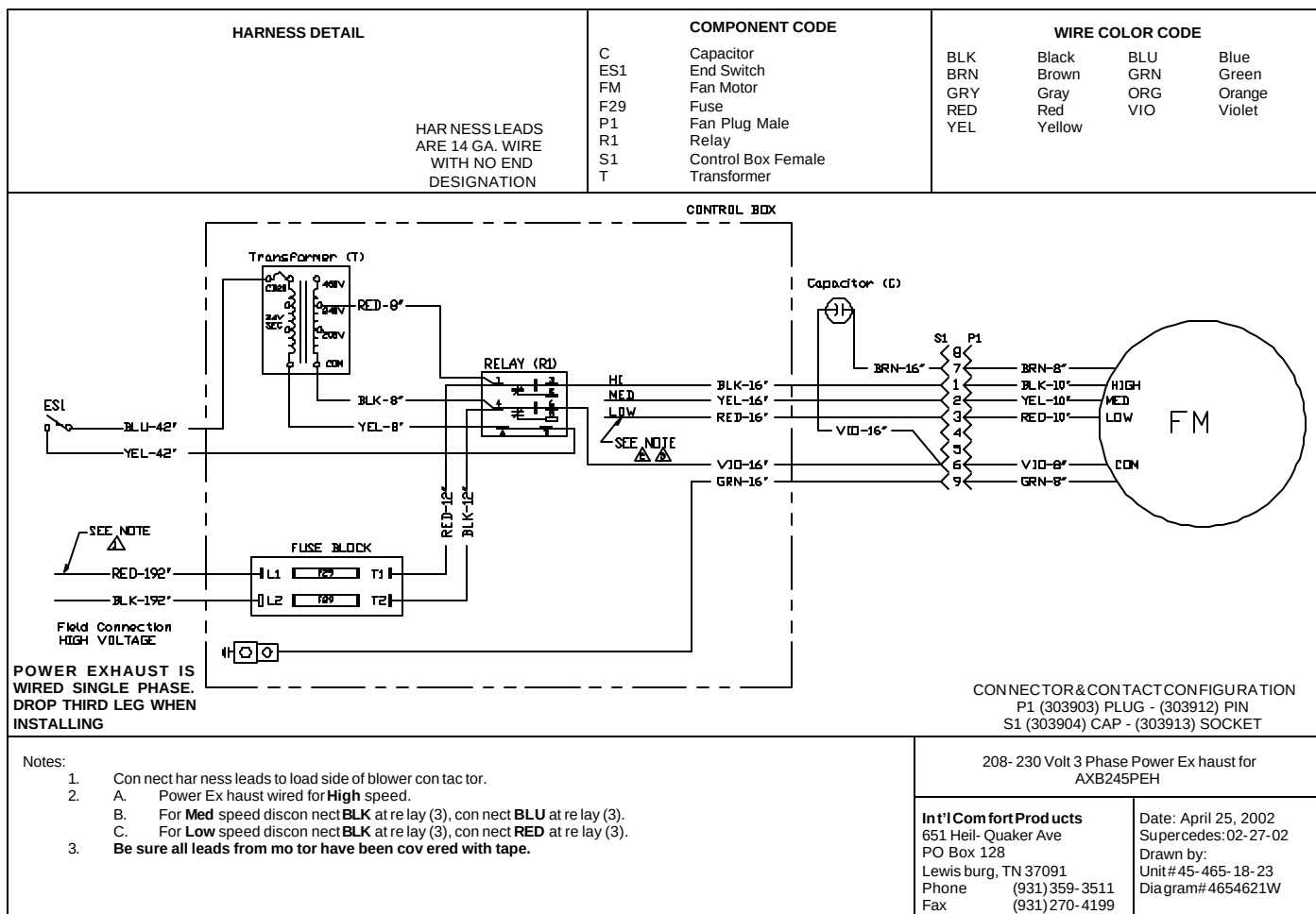
End switch wires through economizer side panel and connect to end switch per diagram.

INSTALLATION INSTRUCTIONS AXB245PEH/AXB245PEL/AXB245PES POWER EXHAUST

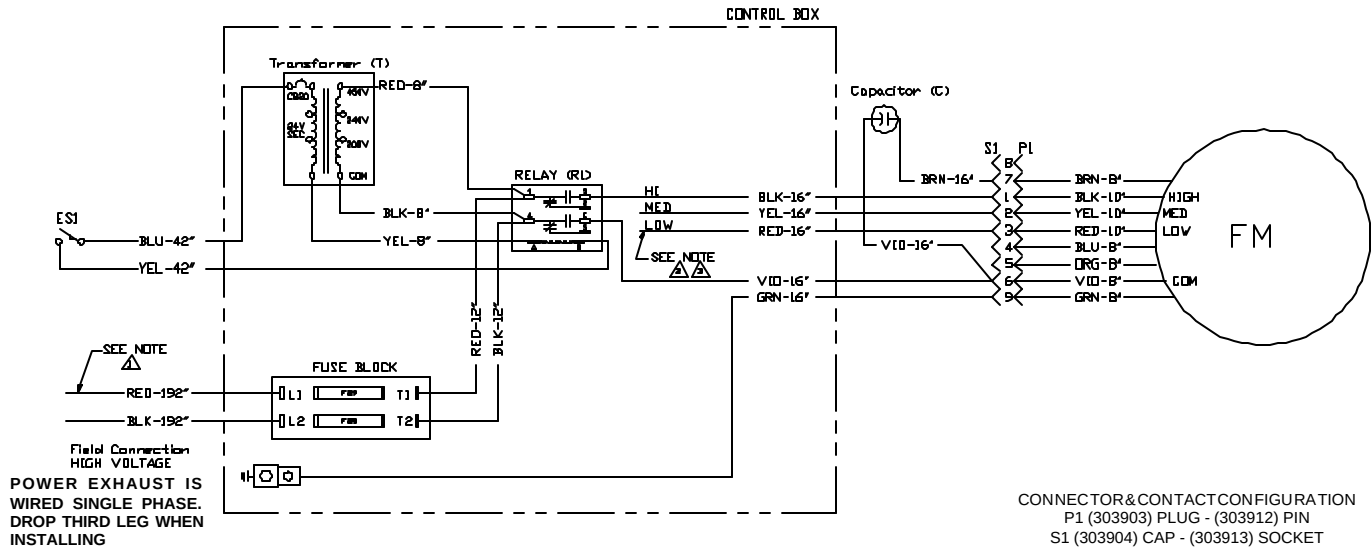


Figure 5

VOLT	PHASE	MOTOR			UNIT (PER CIR CUIT)					CFM @ .1
		HP	RPM	QTY	CIR. QTY	LRA	FLA	MCA	FUSE SIZE	
208/230	3	3/4	1075	1	1	24.9	5.0	6.3	10	4,800
460			1050			N/A	2.2	2.8	5	
575							1.5	1.9	4	

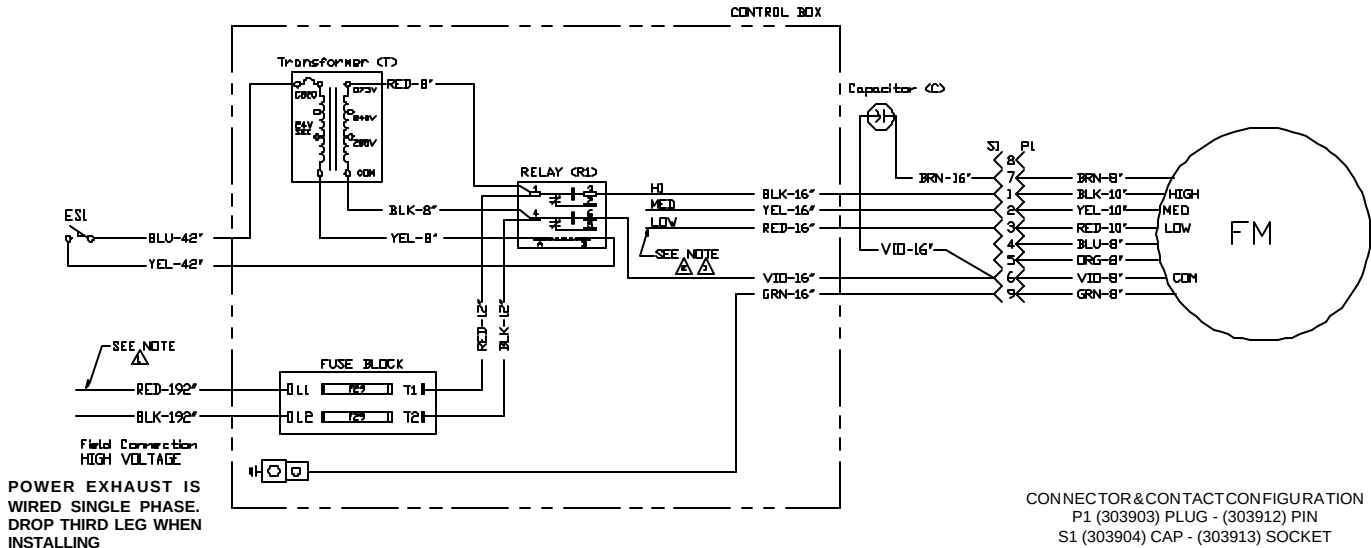


HARNESS DETAIL		COMPONENT CODE		WIRE COLOR CODE			
HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION	C	Capacitor	BLK	Black	BLU	Blue	
	ES1	End Switch	BRN	Brown	GRN	Green	
	FM	Fan Motor	GRY	Gray	ORG	Orange	
	F29	Fuse	RED	Red	VIO	Violet	
	P1	Fan Plug Male	YEL	Yellow			
	R1	Relay					
	S1	Control Box Female					
	T	Transformer					



Notes: 1. Connect harness leads to load side of blower contactor. 2. A. Power Exhaust wired for High speed. B. For Med speed disconnect BLK at relay (3), connect BLU at relay (3). C. For Low speed disconnect BLK at relay (3), connect RED at relay (3). 3. Be sure all leads from motor have been covered with tape.	460 Volt 3 Phase Power Exhaust for AXB245PEL		
	<table> <tr> <td data-bbox="1047 913 1274 1039"> Int'l Comfort Products 651 Heil-Quaker Ave PO Box 128 Lewisburg, TN 37091 Phone (931) 359-3511 Fax (931) 270-4199 </td><td data-bbox="1274 913 1481 1039"> Date: April 25, 2002 Supersedes: 02-27-02 Drawn by: Unit# 45-465-18-33 Diagram# 4654631W </td></tr> </table>	Int'l Comfort Products 651 Heil-Quaker Ave PO Box 128 Lewisburg, TN 37091 Phone (931) 359-3511 Fax (931) 270-4199	Date: April 25, 2002 Supersedes: 02-27-02 Drawn by: Unit# 45-465-18-33 Diagram# 4654631W
Int'l Comfort Products 651 Heil-Quaker Ave PO Box 128 Lewisburg, TN 37091 Phone (931) 359-3511 Fax (931) 270-4199	Date: April 25, 2002 Supersedes: 02-27-02 Drawn by: Unit# 45-465-18-33 Diagram# 4654631W		

HARNESS DETAIL		COMPONENT CODE		WIRE COLOR CODE			
HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION	C	Capacitor	BLK	Black	BLU	Blue	
	ES1	End Switch	BRN	Brown	GRN	Green	
	FM	Fan Motor	GRY	Gray	ORG	Orange	
	F29	Fuse	RED	Red	VIO	Violet	
	P1	Fan Plug Male	YEL	Yellow			
	R1	Relay					
	S1	Control Box Female					
	T	Transformer					



Notes: 1. Connect harness leads to load side of blower contactor. 2. A. Power Exhaust wired for High speed. B. For Med speed disconnect BLK at relay (3), connect BLU at relay (3). C. For Low speed disconnect BLK at relay (3), connect RED at relay (3). 3. Be sure all leads from motor have been covered with tape.	575 Volt 3 Phase Power Exhaust for AXB245PES		
	<table> <tr> <td data-bbox="1047 1869 1274 2001"> Int'l Comfort Products 651 Heil-Quaker Ave PO Box 128 Lewisburg, TN 37091 Phone (931) 359-3511 Fax (931) 270-4199 </td><td data-bbox="1274 1869 1481 2001"> Date: April 25, 2002 Supersedes: 02-27-02 Drawn by: Unit# 45-465-18-43 Diagram# 4654641W </td></tr> </table>	Int'l Comfort Products 651 Heil-Quaker Ave PO Box 128 Lewisburg, TN 37091 Phone (931) 359-3511 Fax (931) 270-4199	Date: April 25, 2002 Supersedes: 02-27-02 Drawn by: Unit# 45-465-18-43 Diagram# 4654641W
Int'l Comfort Products 651 Heil-Quaker Ave PO Box 128 Lewisburg, TN 37091 Phone (931) 359-3511 Fax (931) 270-4199	Date: April 25, 2002 Supersedes: 02-27-02 Drawn by: Unit# 45-465-18-43 Diagram# 4654641W		

The Coil Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- 1 - Rear Coil Guard
- 1 - Side coil Guard
- 1 - Hardware Package
 - #10- 16 x $\frac{1}{2}$ Screw
 - Installation Instruction

STEP 1:

Check for correct model number and number of parts above:

STEP 2:

Take rear coil guard and center left to right with top flange of guard under top of coil.

STEP 3:

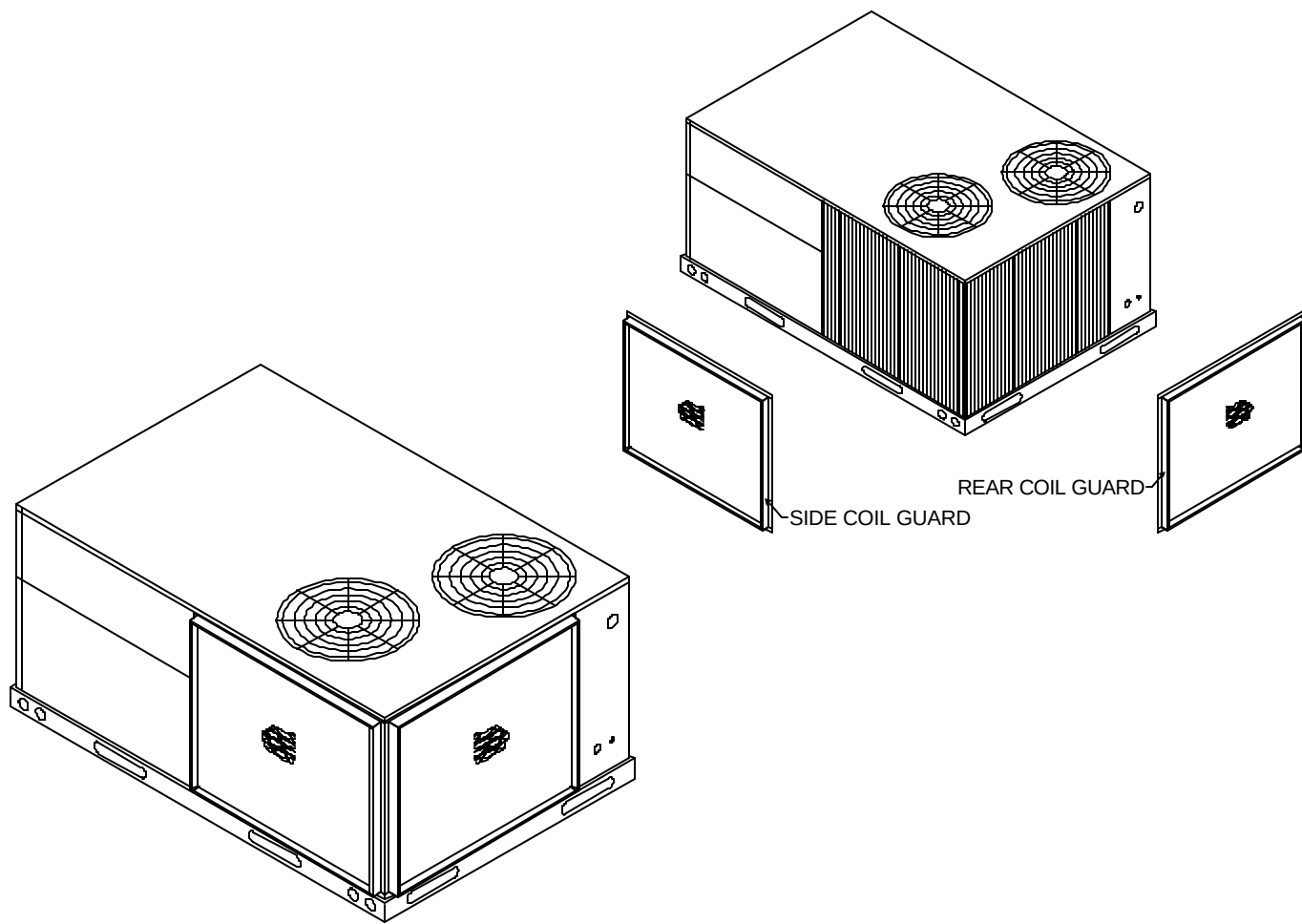
Then secure with screws provided.

STEP 4:

Take side coil guard and center left to right with top flange of guard under top of coil.

STEP 5:

Then secure with screws provided.



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The Hail Guard is designed to prevent damage to the condensor coil of the unit. The following list of parts are required:

STEP 1:

Check for correct number of parts. See list below.

- 1 - Rear Hail Guard (A)
- 1 - Side Hail Guard (B)
- 1 - Rear Top Panel (C)
- 1 - Side Top Panel (D)
- 4 - Vertical Side Panel (E)
- 1 - Hardware Package
- #10- 16 x ½ Screw
- Installation Instruction

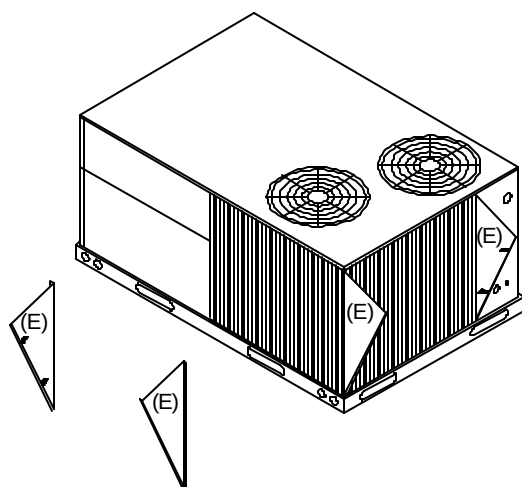


Figure 2

STEP 4:

Then secure (A) and (B) hail guard kits in between clips on vertical side panel and close clips to hold in position.

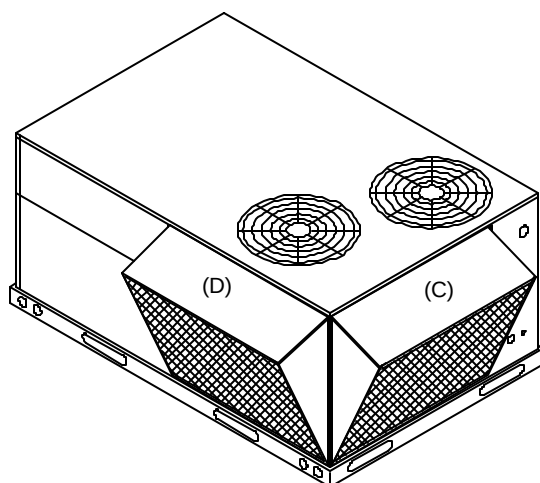


Figure 4

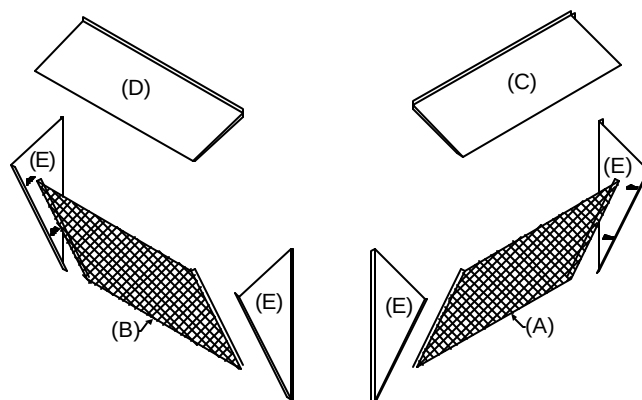


Figure 1

STEP 2:

Take (E) vertical side panel and align inside of side panels with outside edge of coil. Then secure with the screws provided.

STEP 3:

Repeat Step 2 for the other side of unit.

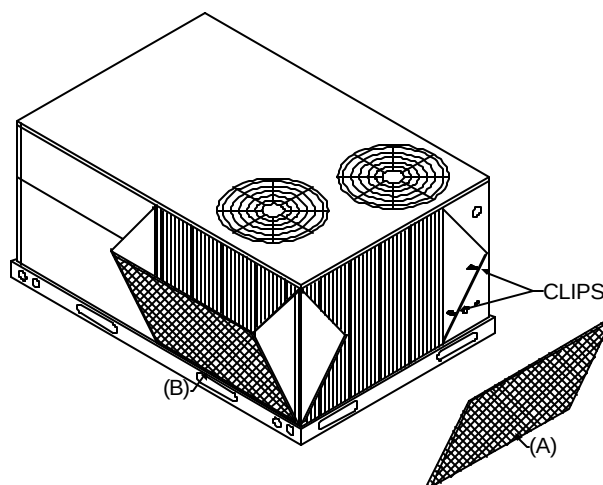


Figure 3

STEP 5:

Now secure the (C) rear top panel and (D) side top panel with the flange under top of unit and flange over side panels.

This Roof Curb is NRCA approved and is constructed of 16 gauge galvanized steel with a full perimeter 2" x 4" wood nailer strip. The curb is designed to be used with the Cooling, Gas Electric, and Heat Pump Models. The curb is shipped with the following parts, (see figure 2):

- 1) 2 ea. Curb Short Sides - 75 $\frac{9}{16}$ " Long (A)
- 2) 2 ea. Curb Long Sides - 77 $\frac{3}{4}$ " Long (B)
- 3) 1 ea. Condensor Pans - 74 x 17 $\frac{3}{16}$ " (C)
- 4) 1 ea. Condensor Pans - 74 x 12 $\frac{3}{16}$ " (D)
- 5) 1 ea. Condensor Pans - 74 x 22 $\frac{3}{4}$ " (E)
- 6) 1 ea. Hardware Package Includes:
 - 4 ea. "Hinge" Pins $\frac{3}{16}$ "
 - 6 ea. Hex Washers screws #10 x $\frac{1}{2}$ "
- 8) 2 ea. Gasket $\frac{3}{4}$ " x 1 $\frac{1}{4}$ " x 14' (28 ft. total)

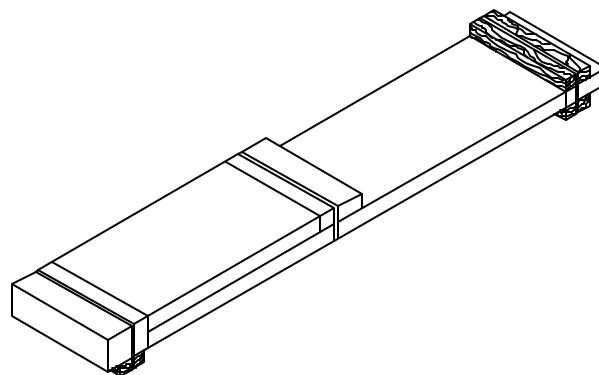


Figure 1

Step 1:

Curb Package is shown as shipped with easy to identify part numbers on all sides. Cut shipping bands and remove Hardware, Gasket, and 3 Condensor Pans.

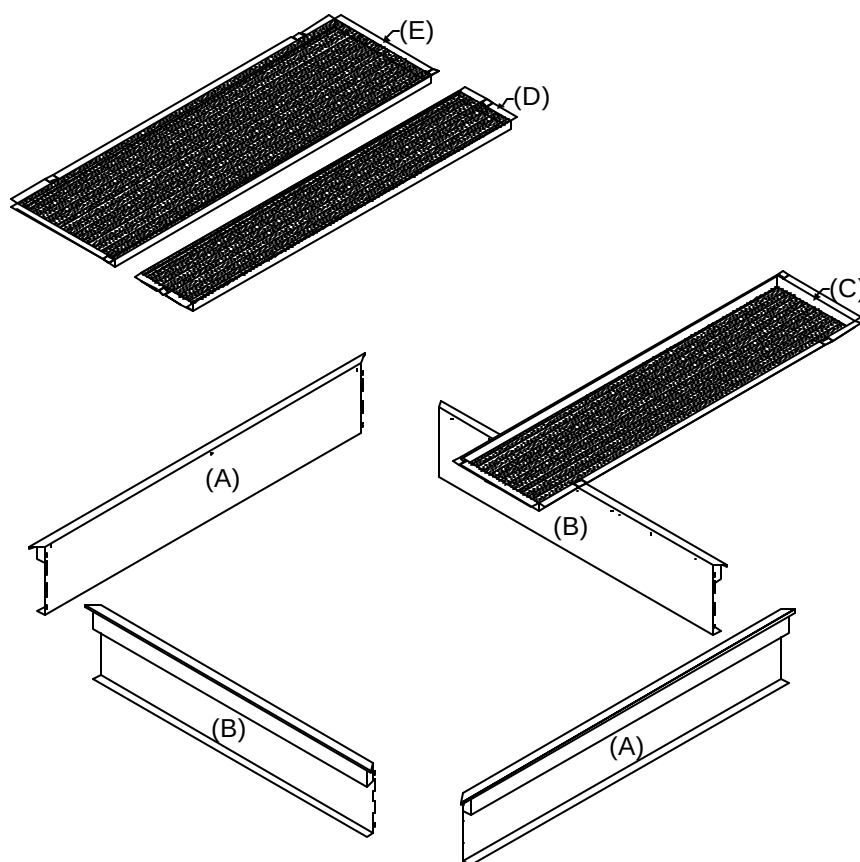


Figure 2

Step 2:

Layout the curb pieces before assembly to insure that all the necessary pieces are included.

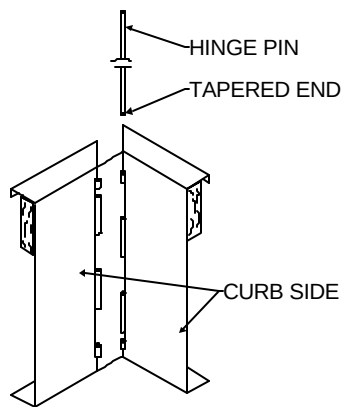


Figure 3

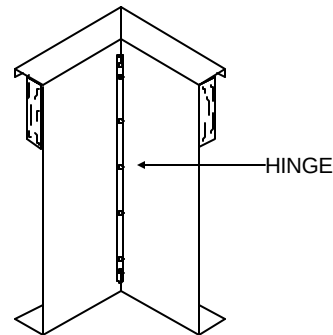


Figure 4

STEP 3:

Corner Assembly: Align each curb side as shown in (Figure 3). Using a hammer, drive the curb “hinge” pin down until the top of the pin is below the top of the curb (Figure 4).

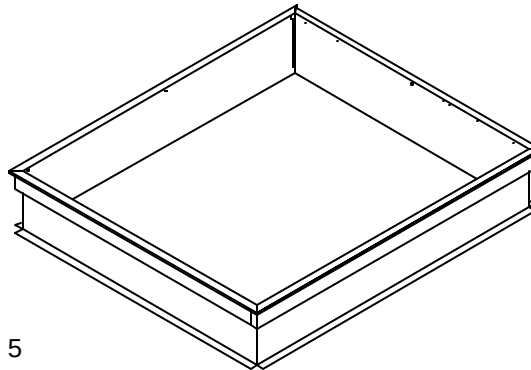
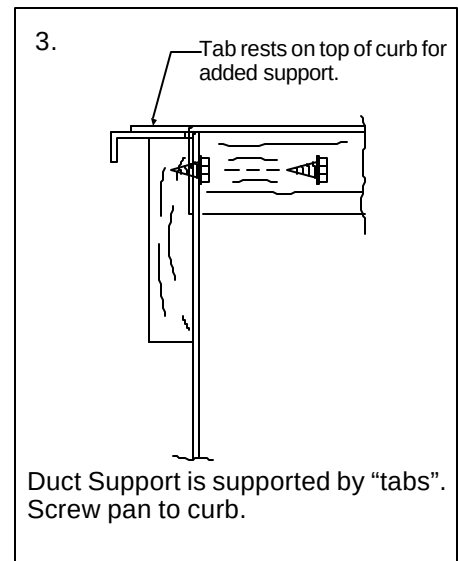
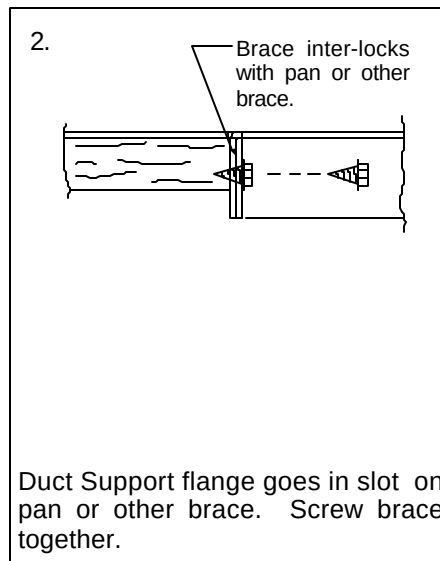
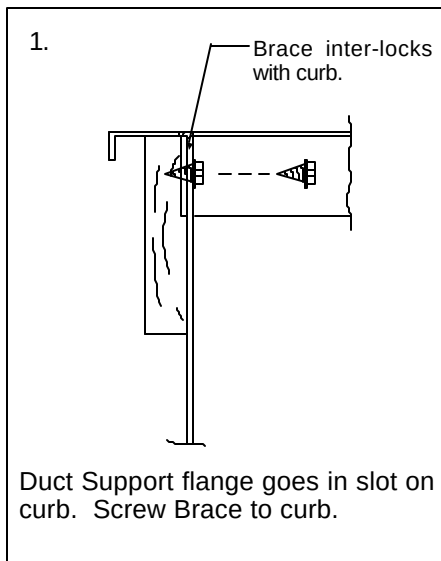


Figure 5

STEP 4:

After the four corners are assembled; the curb should be checked to be sure it is in “square”. Do this by measuring diagonally from each opposite corner. The two measurements should be the same for each direction.

DETAILS



Note:

Condenser pan can be located on either end depending on individual applications.

Step 5:

Install the condenser pan (C) as shown with opening over the desired duct location (Figure 6).

Step 6:

Install the condenser pan (D) as shown (Figure 6).

Step 7:

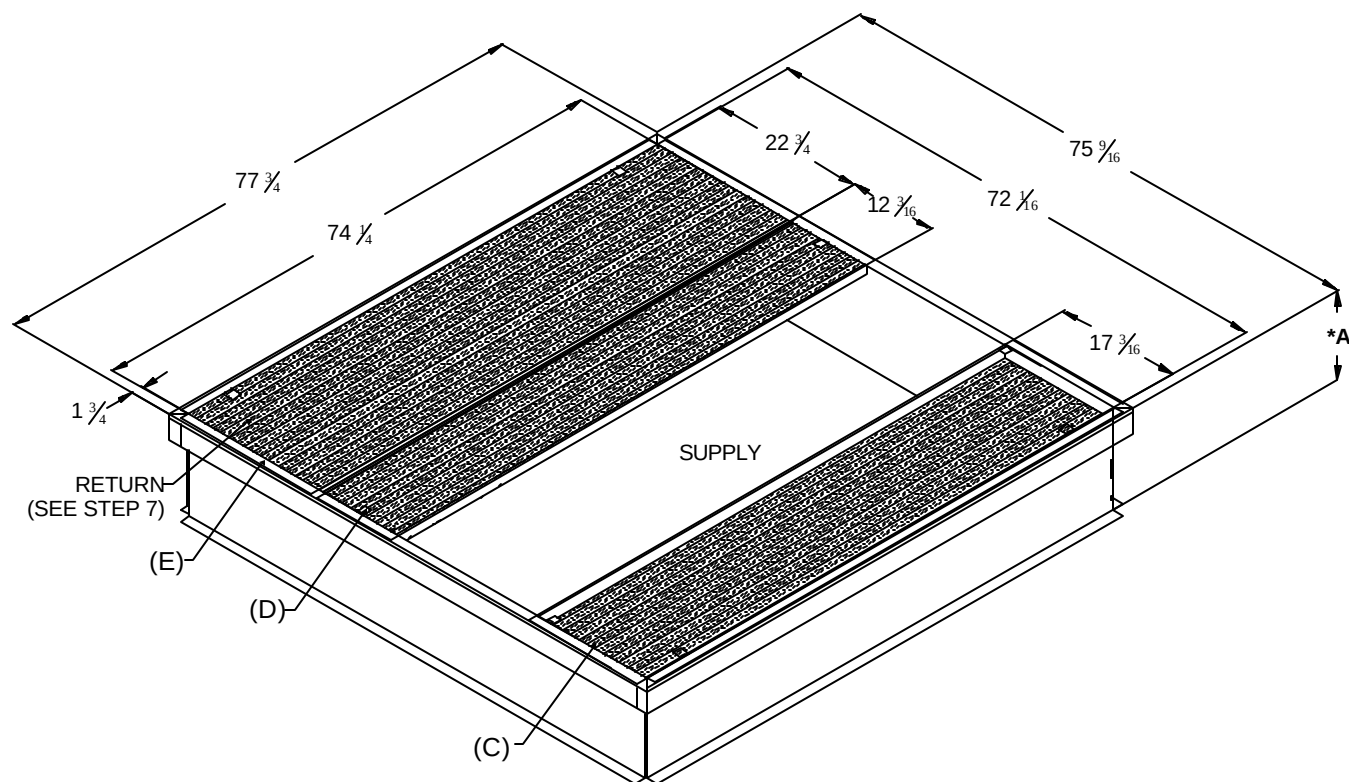
Install the condenser pan (E) if being used in a horizontal application only (Figure 6).

Step 8:

If the curb is being assembled and moved to another location, attach the condenser pans as shown in "Details".

Step 9:

Place the $\frac{3}{4}$ " x $1\frac{1}{4}$ " Gasket on all of the top edges of the Roof Curb, including the condenser pans.



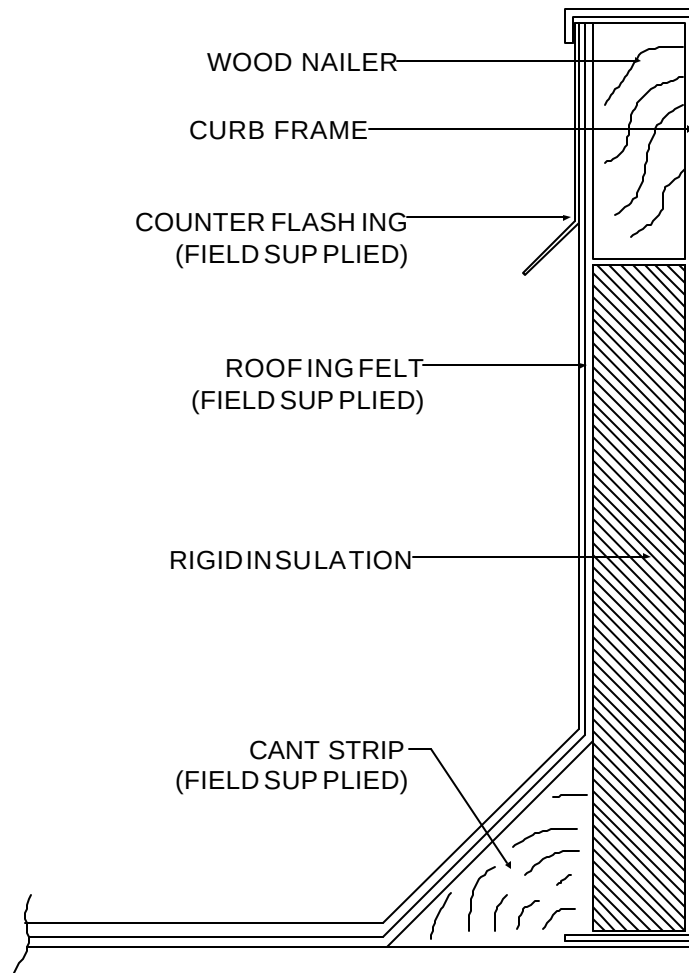
ICP PART NO	PART NO	*A
AXB060 CLA	45-201-1908	8
AXB060 CMA	45-201-1914	14
AXB060 CHA	45-201-1924	24

ROOF OPENING:
74" Long
55" Wide

DUCT SIZES ARE:
Return 68.500 X 22.250
Supply 73.750 X 19.313

Figure 6

ROOF INSTRUCTIONS



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This Roof Curb is NRCA approved and is constructed of 16 gauge galvanized steel with a full perimeter 2" x 4" wood nailer strip. The curb is designed to be used with the Cooling, Gas Electric, and Heat Pump Models. The curb is shipped with the following parts, (see figure 2):

- 2 ea. Curb Short Sides - 75 $\frac{1}{16}$ " Long (A)
- 1 ea. Curb Long Sides - 77 $\frac{3}{4}$ " Long (B)
- 1 ea. Curb Long Side w/ Duct Opening - 77 $\frac{3}{4}$ " Long (C)
- 1 ea. Condensor Pans - 74 x 17 $\frac{3}{16}$ " (D)
- 1 ea. Condensor Pans - 74 x 12 $\frac{3}{16}$ " (E)
- 1 ea. Condensor Pans - 74 x 22 $\frac{3}{4}$ " (F)
- 2 ea. Horizontal Braces (G)
- 3 ea. Duct Panel - 74 $\frac{1}{4}$ x 18 $\frac{1}{4}$ " (H)
- 1 ea. Divider Panel - 74 $\frac{1}{4}$ x 21 $\frac{1}{8}$ " (J)
- 2 ea. Deflectors - 74 $\frac{1}{4}$ x 15 $\frac{1}{8}$ " (K)
- 1 ea. Hardware Package Includes:
 - 4 ea. "Hinge" Pins $\frac{3}{16}$ "
 - 90 ea. Hex Washers screws #10 x $\frac{1}{2}$ "
- 2 ea. Gasket $\frac{3}{4}$ " x 1 $\frac{1}{4}$ " x 14' (28 ft. total)

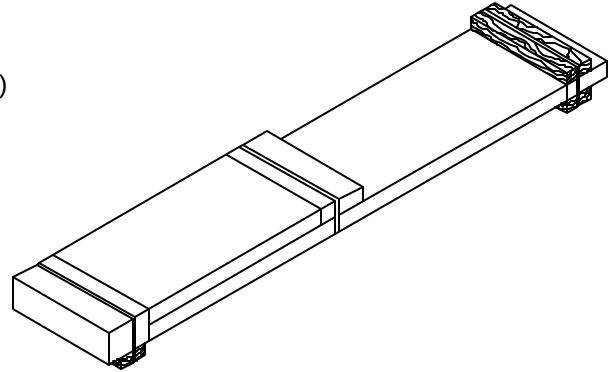


Figure 1

Step 1:

Curb Package is shown as shipped with easy to identify part numbers on all sides. Cut shipping bands and remove all parts to verify parts to above list.

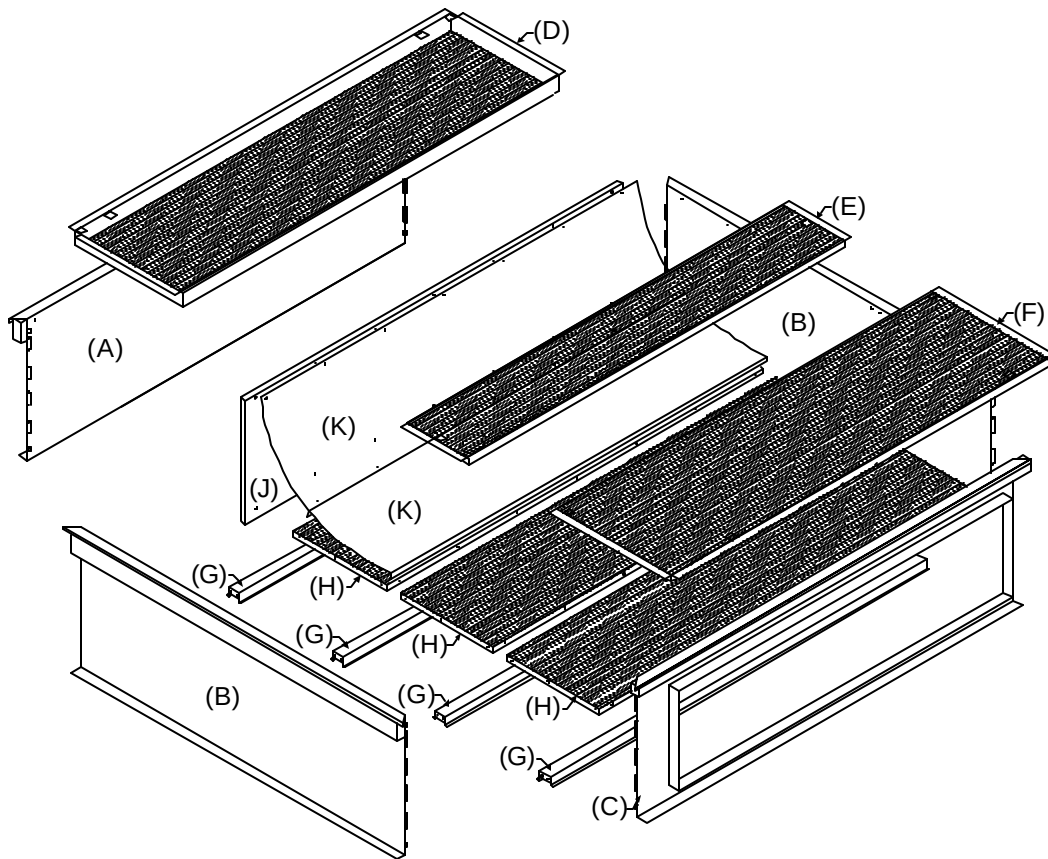


Figure 2

Step 2:

Layout the curb pieces before assembly to insure that all the necessary pieces are included.

STEP 3:

Corner Assembly: Align each curb side as shown in Detail "A". Using a hammer, drive the curb "hinge" pin down until the top of the pin is below the top of the curb as shown in Detail "B".

STEP 4:

After the four corners are assembled; the curb should be checked to be sure it is in "square". Do this by measuring diagonally from each opposite corner. The two measurements should be the same for each direction. See Figure 3.

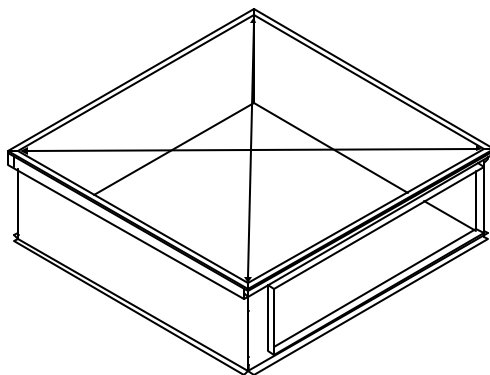
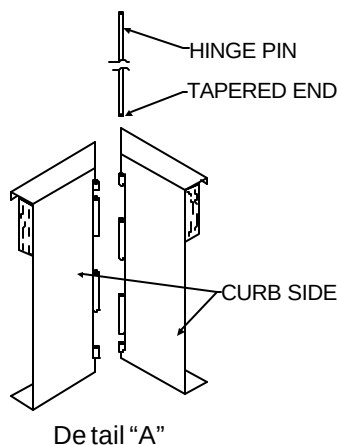
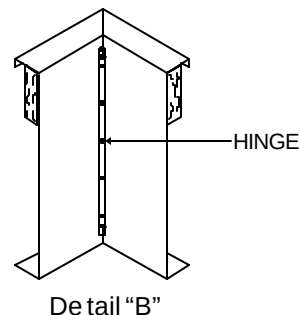


Figure 3



STEP 5:

Install horizontal braces to support lower panels. Use prepunched holes to align braces. See Figure 4.

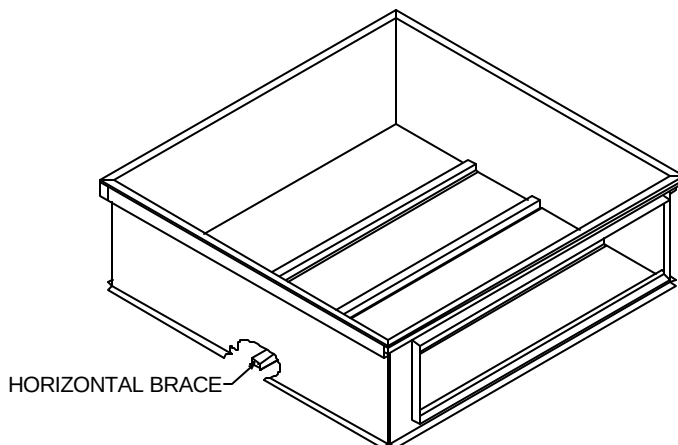


Figure 4

STEP 6:

Install divider behind the fourth horizontal brace use prepunched holes for alignment. See Figure 5.

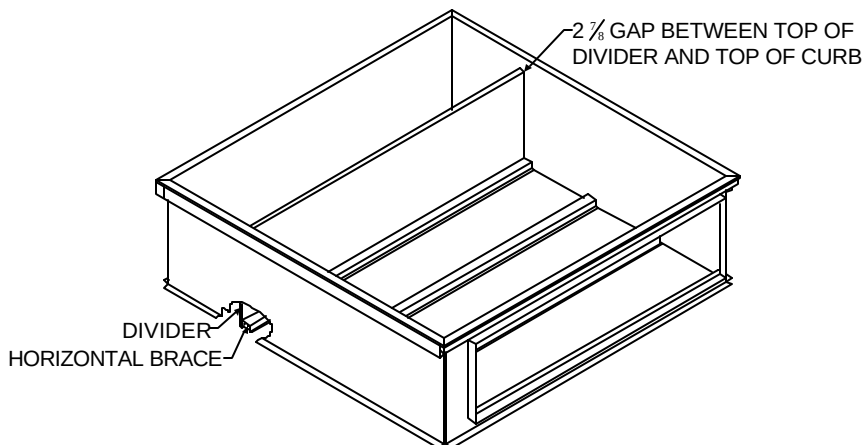


Figure 5

STEP 7:

Install duct panel #1 with holes located as shown in Figure 6. Secure duct panel #1 to divider and curb sides.

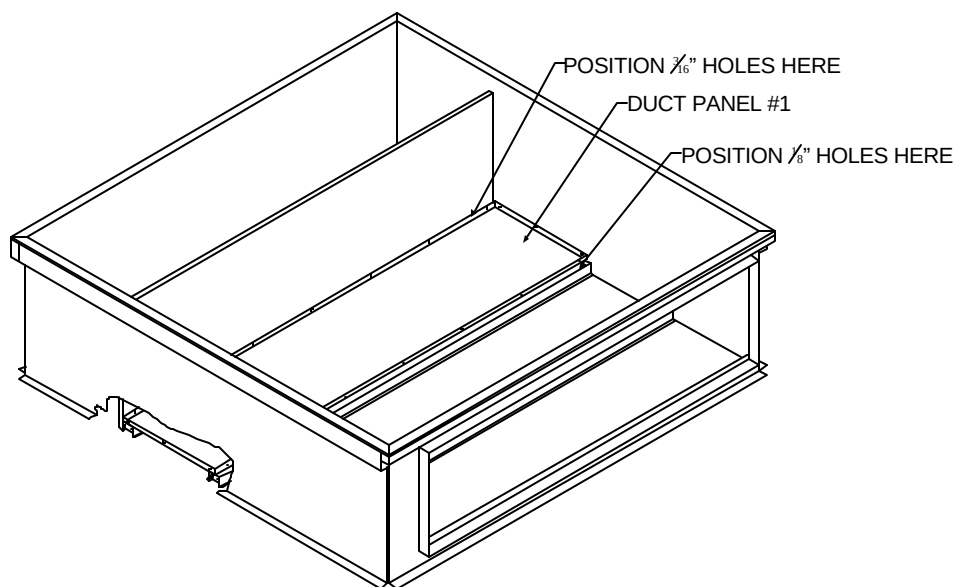


Figure 6

STEP 8:

Screw defelctors together as shown in Figure 7.

STEP 9:

Place deflector assembly into curb and screw to divider.

STEP 10:

Install duct panel #2 into curb making sure the deflector is between duct panel #1 and duct panel #2 as shown in Detail "C".

Step 11:

Install duct panel #3. Then secure all 4 sides of duct panel #2 and duct panel #3.

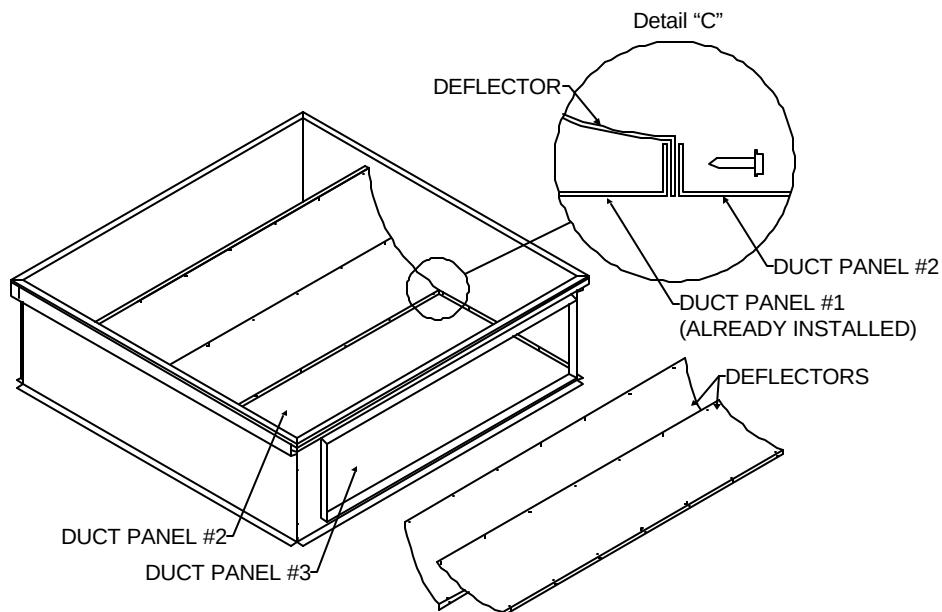


Figure 7

INSTALLATION INSTRUCTIONS MODEL AXB165 CHA HORIZONTAL ROOF CURB WITH DUCT

Step 12:

Install the condenser pan (D) as shown in Figure 8.

Step 13:

Install the condenser pan (F) as shown Figure 8.

Step 14:

Install the condenser pan (E) as shown in Figure 8.

Step 15:

If the curb is being assembled and moved to another location, attach the condenser pans.

Step 16:

Place the $\frac{3}{4}$ " x $1\frac{1}{4}$ " gasket on all of the top edges of the roof curb, including the condenser pans.

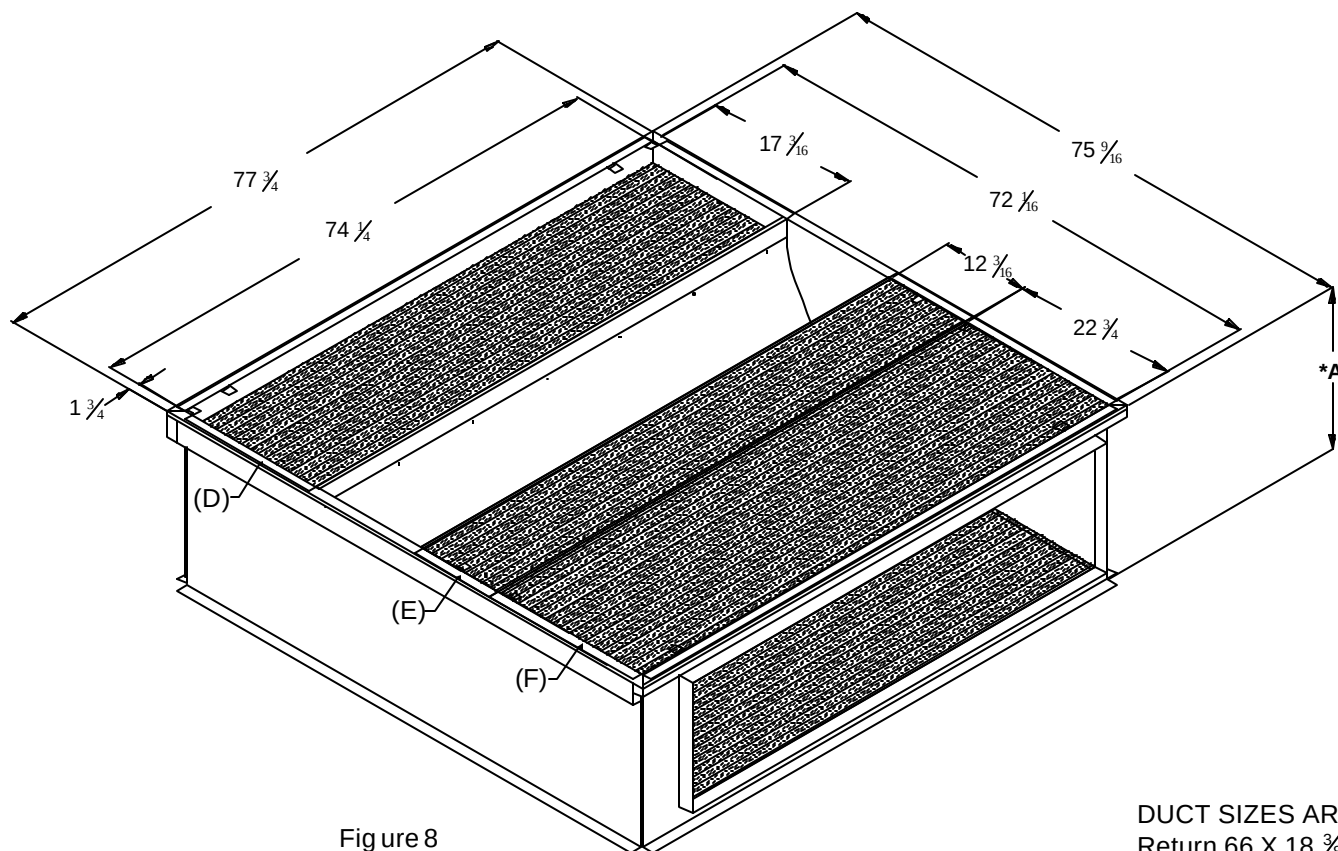
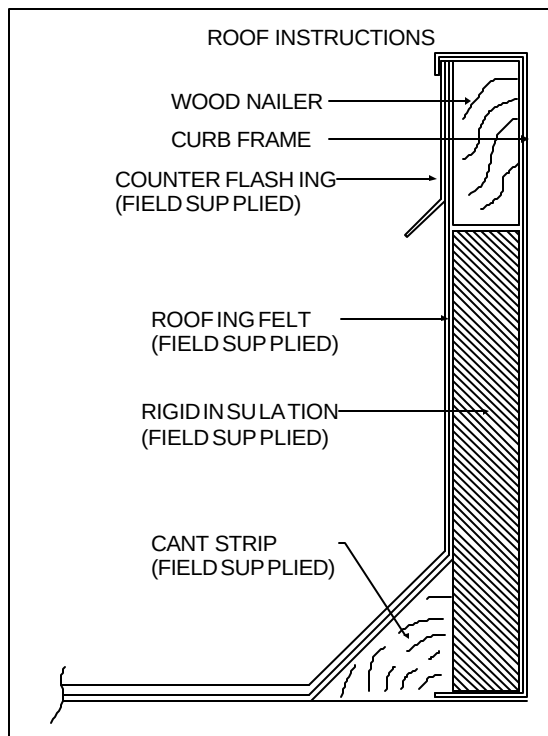


Figure 8

DUCT SIZES ARE:
Return 66 X $18\frac{3}{8}$
Supply 66 X 18

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- 1 ea. Curb Long Sides - 77 $\frac{3}{4}$ " Long (B)
- 1 ea. Curb Long Side w/ Duct Opening - 77 $\frac{3}{4}$ " Long (C)
- 1 ea. Condensor Pans - 74 x 17 $\frac{3}{16}$ " (D)
- 1 ea. Condensor Pans - 74 x 12 $\frac{3}{16}$ " (E)
- 1 ea. Condensor Pans - 74 x 22 $\frac{3}{4}$ " (F)
- 1 ea. Hardware Package Includes:
 - 4 ea. "Hinge" Pins $\frac{3}{16}$ "
 - 6 ea. Hex Washers screws #10 x $\frac{1}{2}$ "
- 2 ea. Gasket $\frac{3}{4}$ " x 1 $\frac{1}{4}$ " x 14' (28 ft. total)

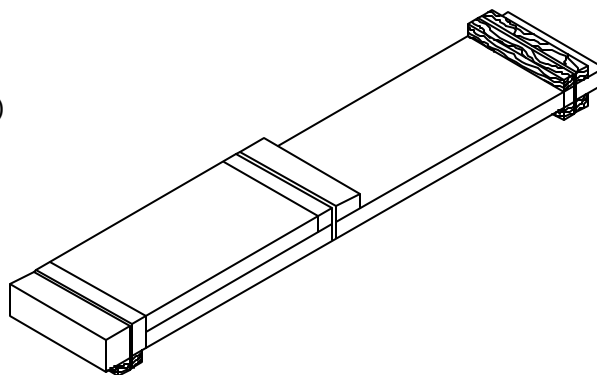


Figure 1

Step 1:

Curb Package is shown as shipped with easy to identify part numbers on all sides. Cut shipping bands and remove Hardware, Gasket, and 3 Condensor Pans.

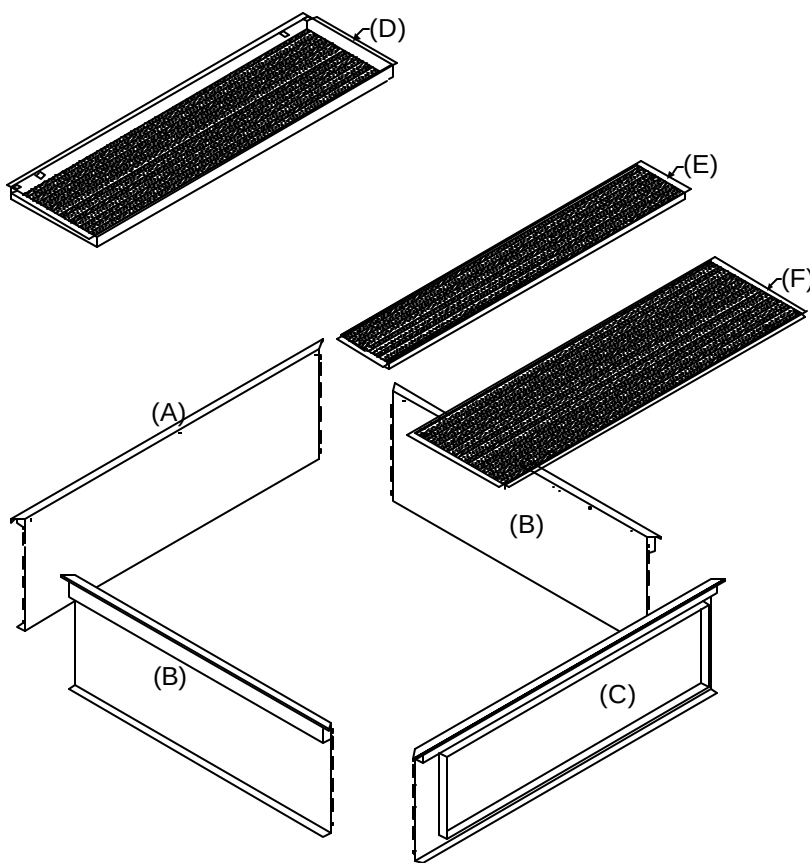


Figure 2

Step 2:

Layout the curb pieces before assembly to insure that all the necessary pieces are included.

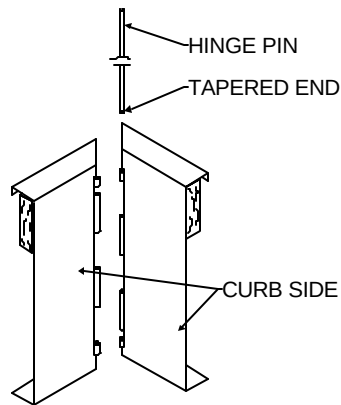


Figure 3

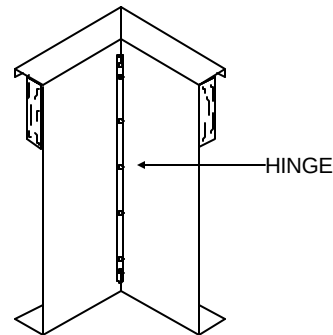


Figure 4

STEP 3:

Corner Assembly: Align each curb side as shown in Figure 3. Using a hammer, drive the curb “hinge” pin down until the top of the pin is below the top of the curb as shown in Figure 4.

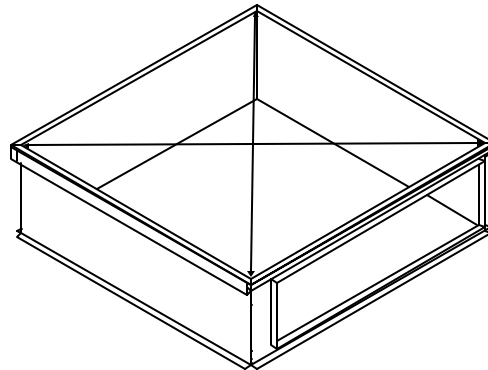
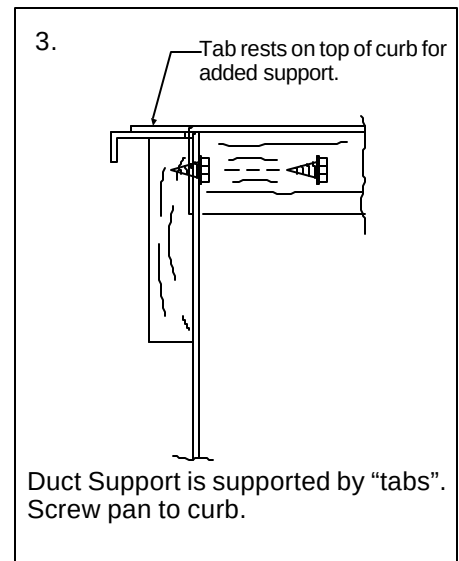
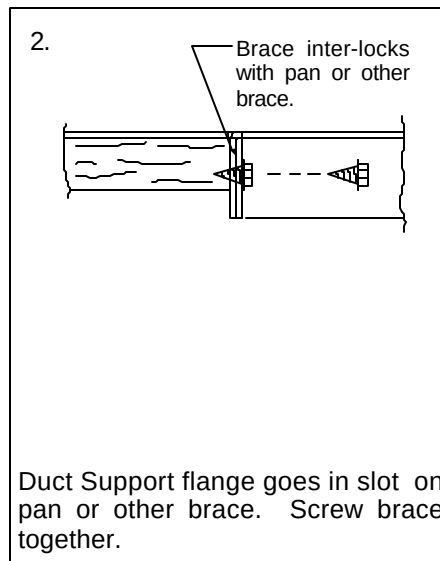
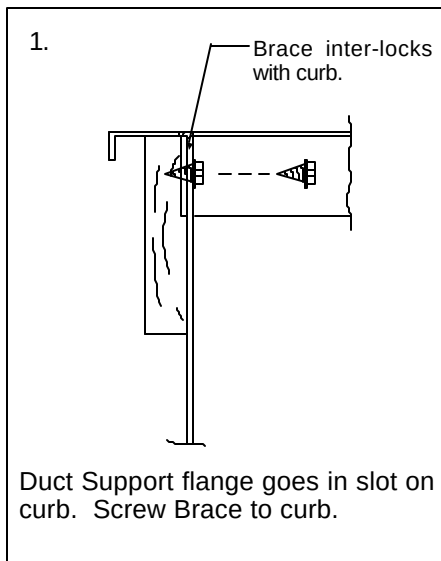


Figure 5

STEP 4:

After the four corners are assembled; the curb should be checked to be sure it is in “square”. Do this by measuring diagonally from each opposite corner. The two measurements should be the same for each direction. See Figure 5.

DETAILS



Step 5:

Install the condenser pan (D) as shown with opening over the desired duct location as shown in Figure 6.

Step 6:

Install the condenser pan (E) as shown in Figure 6.

Step 7:

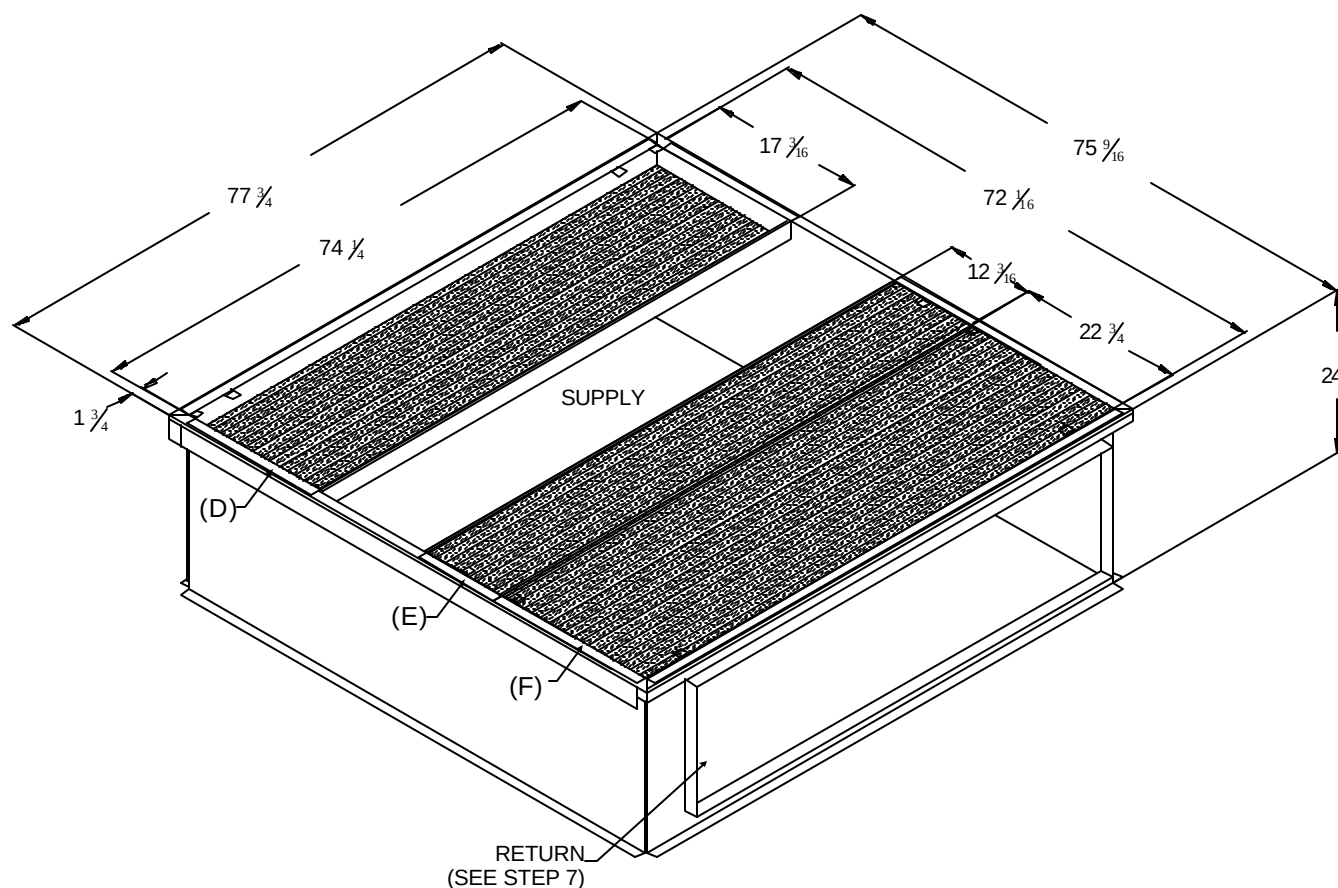
Install the condenser pan (F) if being used in a **horizontal application only** as shown in Figure 6.

Step 8:

If the curb is being assembled and moved to another location, attach the condenser pans as shown in "Details".

Step 9:

Place the $\frac{3}{4}$ " x $1\frac{1}{4}$ " Gasket on all of the top edges of the Roof Curb, including the condenser pans.

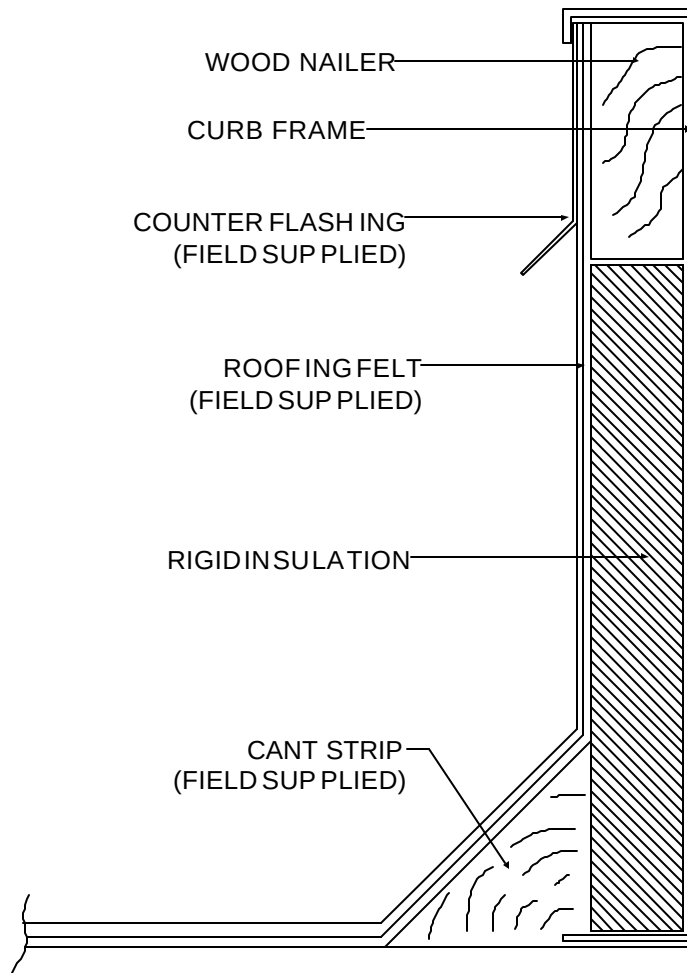


ROOF OPENING:
74" Long
55" Wide

DUCT SIZES ARE:
Return 66 X 18
Supply 73.750 X 19.313

Figure 6

ROOF INSTRUCTIONS



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INSTALLATION INSTRUCTIONS MODEL AXB160/260 CTA CONCENTRIC CURB TRANSITION

The Concentric Curb Transition is designed to drop into the curb and convert the square duct unit connections to round duct.

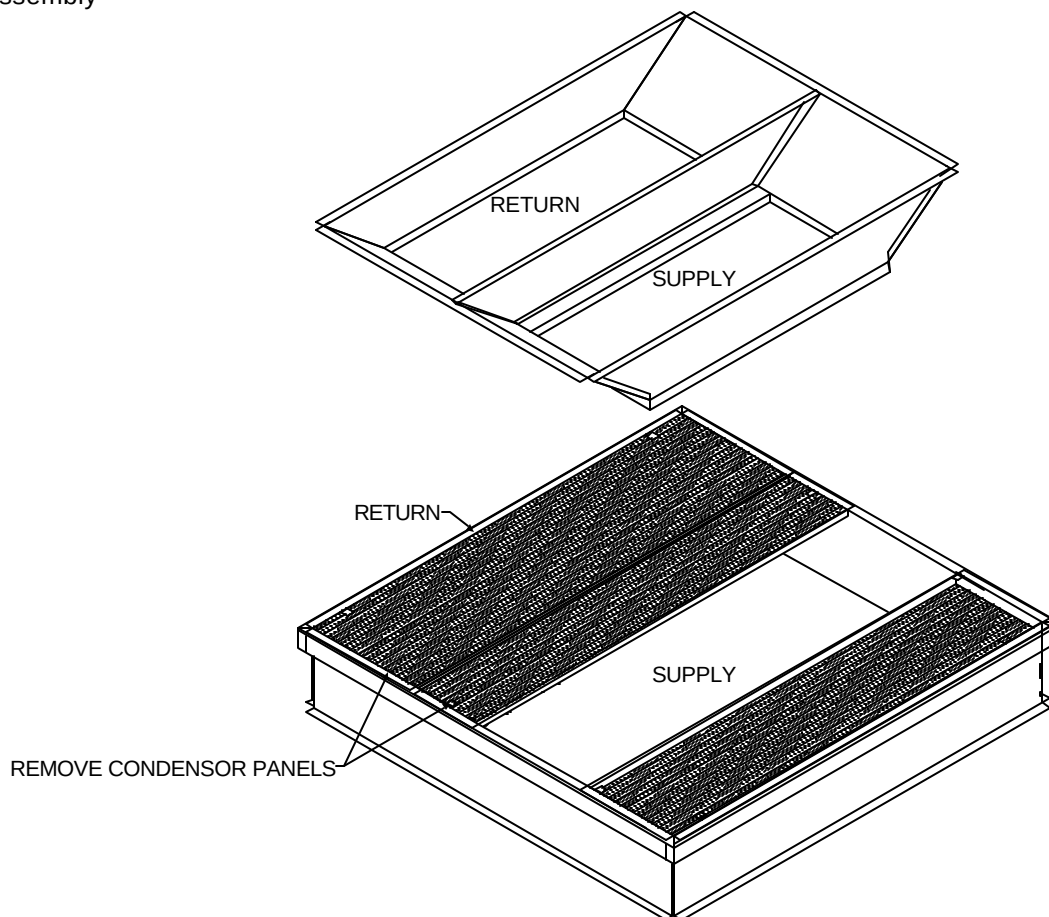
For use with:

AXB060CMA

AXB060CHA

Roof Curb Assembly

TRANSITION#	ROOF CURB#	DUCT SIZE
AXB160CTA	AXB060CMA	18 X 36 RECTANGLE
AXB260CTA	AXB060CHA	24 X 48 RECTANGLE



STEP 1:

Check for correct part number listed above.

STEP 2:

Remove both condensor panels from roof curb.

STEP 3:

Install transition in supply/return opening in roof curb.

STEP 4:

Place $\frac{3}{4}$ " X $1\frac{1}{4}$ " gasket (included with the curb only) as instructed in roof curb installation sheet.

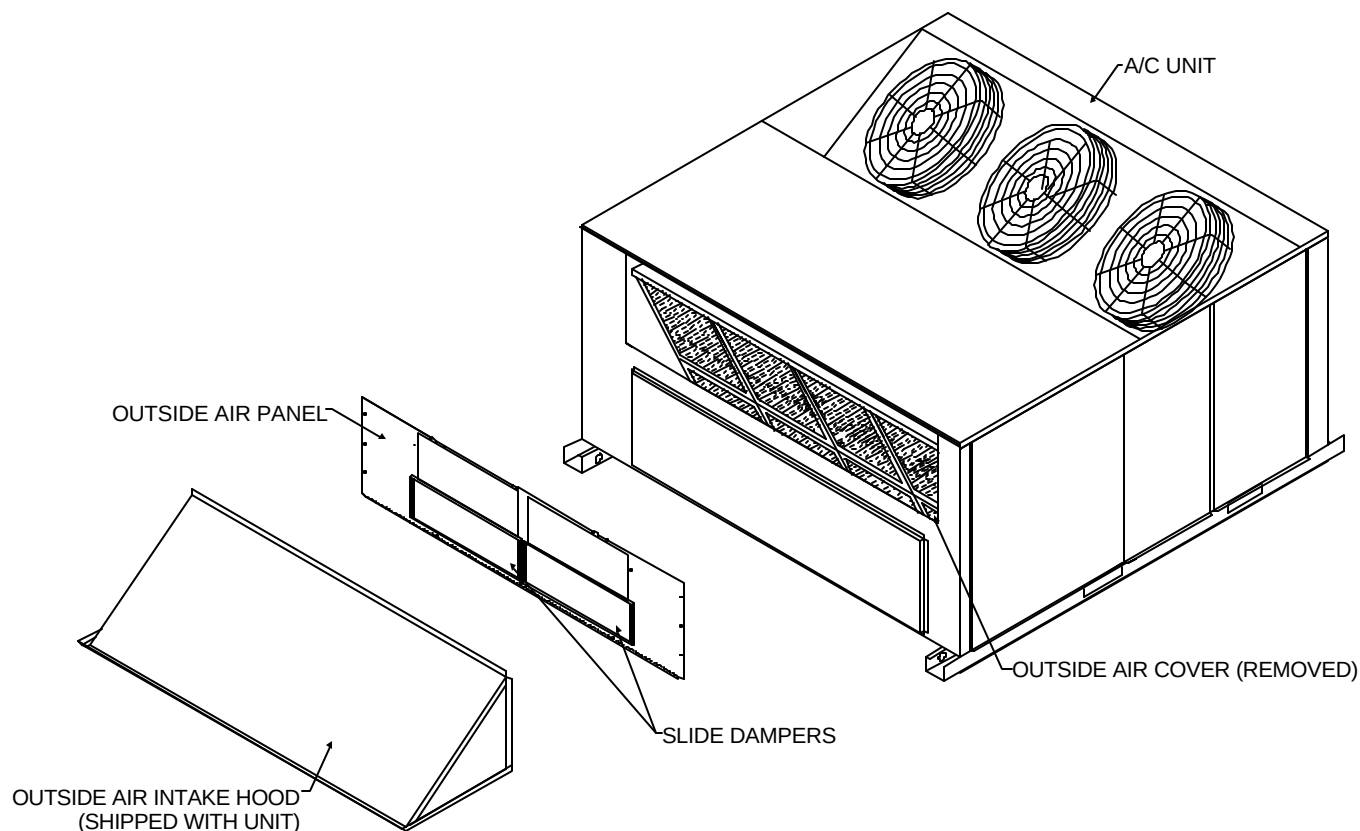
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LEWISBURG, TENNESSEE
37091

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FAX (931) 270-4199

The 0-35% manual outside air system is designed to replace the outside air cover. The amount of outside air is controlled by simply adjusting the slide damper. The panel is fully insulated.

**STEP 1:**

Check for correct number of parts. See list below:

1 ea. - Outside air panel assembly with slide dampers.

STEP 2:

Remove outside air cover and hood assembly from unit, and save the screws.

STEP 3:

Install new outside air panel as shown over duct opening with the screws removed in Step 2.

STEP 4:

Adjust the slide damper to the desired position.

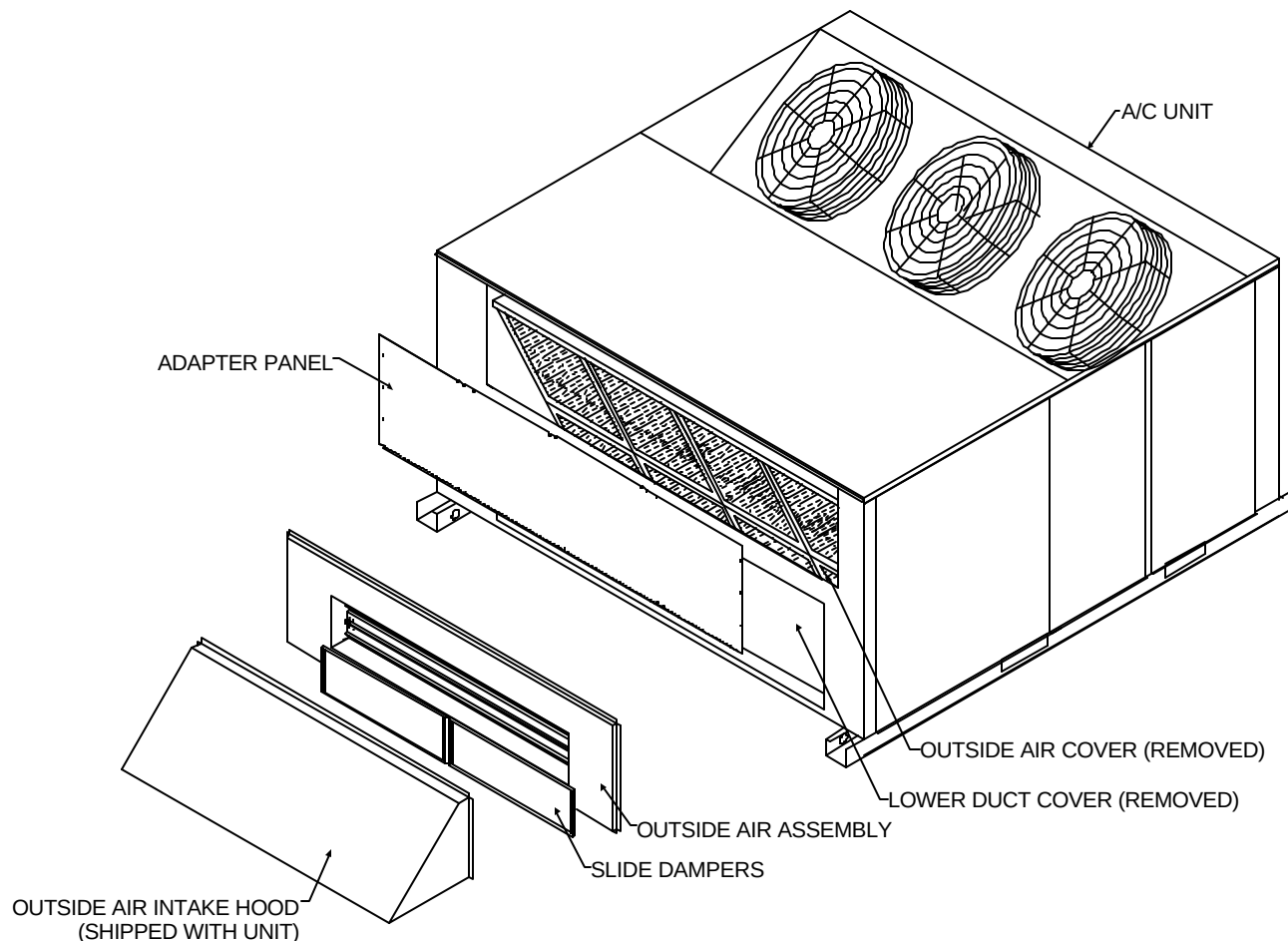
STEP 5:

Follow instructions supplied with outside air hood for hood assembly.

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FAX (931) 270- 4199

The 0-35% motorized outside air system is designed to replace the outside air cover and lower duct cover. The amount of outside air is controlled by a motorized damper. The panel is fully insulated.

**STEP 1:**

Check for correct number of parts. See list below:

1 ea. - Outside air panel assembly with hood and motorized damper.

1 ea. - Adaptor Panel.

STEP 2:

Remove outside air duct cover and hood then discard. Save the screws to mount the adaptor panel in place of outside air duct cover.

STEP 3:

Remove the lower duct cover and discard. Save the screws to mount the outside air assembly in its place.

STEP 4:

Connect harness to unit plug.

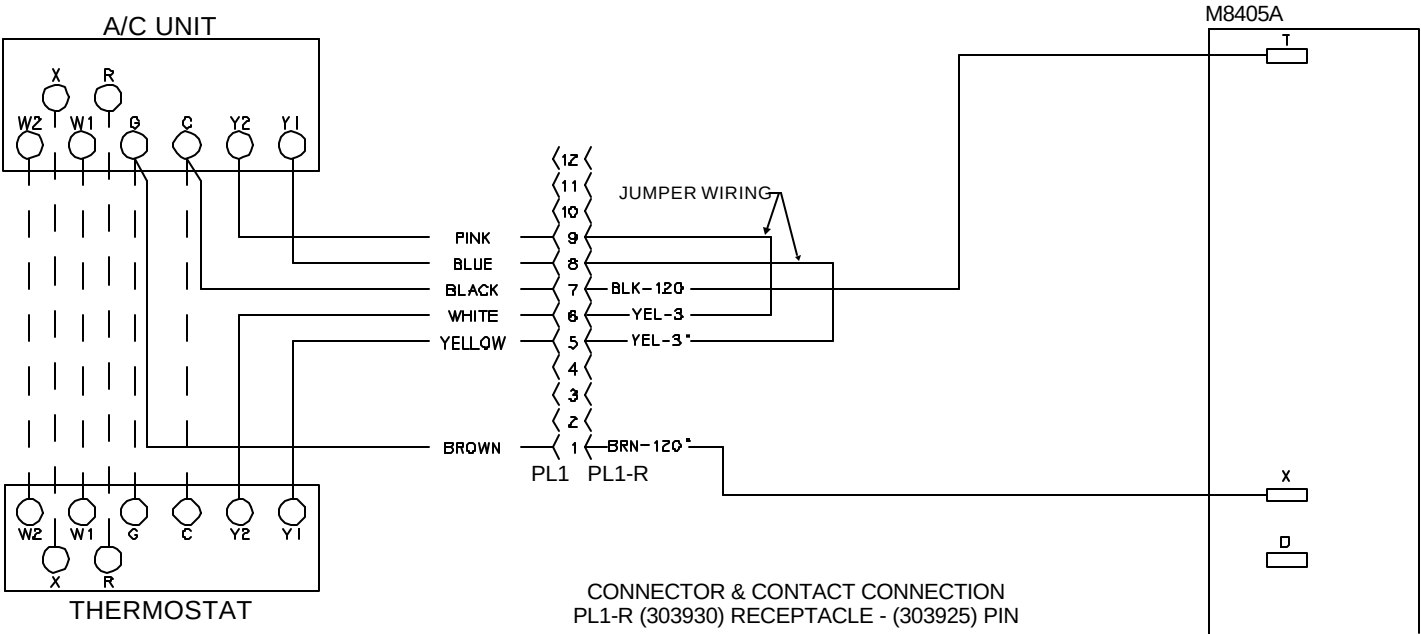
STEP 5:

Install outside air assembly as shown with the screws removed in Step 3.

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HARNESS DETAIL		COMPONENT CODE		WIRE COLOR CODE			
E# = WIRE END DESIGNATION		Economizer					
E2	STUD #6 18 Ga. Wire	M8405A	Damper Actuator 24v	BLK	Black	BRN	Brown
E3	Female ¼ Quick Disc.			YEL	Yellow		
E4	Male ¼ Quick Disc. Insul						
E6	Wire Nut Size 73B						
HARNESS ENDS AT PL1-R							



- Notes:
- Unit wir ing shown as ref er ence only. Check unit wir ing for ac tual unit wir ing.

0- 35% Mo tor ized Da mper AXB060FMA	
Roof top Systems, Inc. 2405 McIver Lane Car roll ton, Texas 75006 Phone (972) 247- 7447 Fax (972) 243- 0940	Date: March 5, 2002
	Supercedes:
	Drawn by:
	Unit # 45- 287-19
Dia gram# 28719W	

Economizers are used with 15-20 ton units for automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

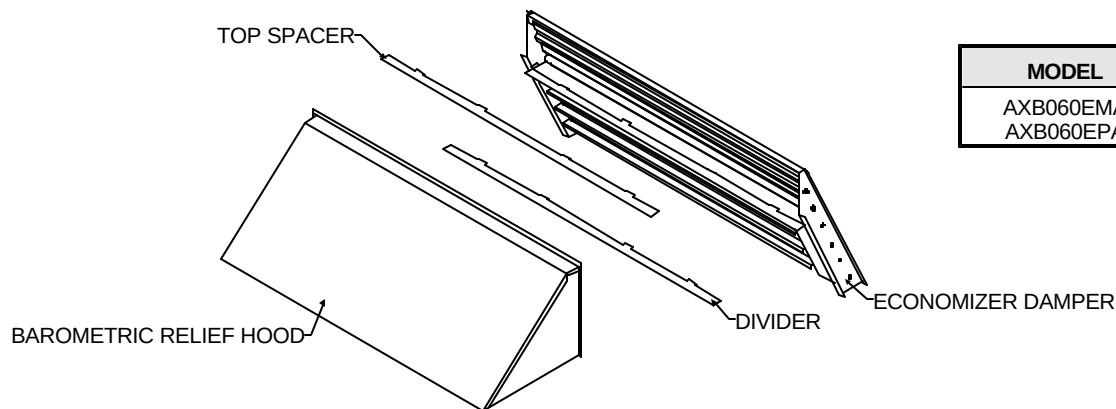


Figure 1

MODEL	UNIT SIZE
AXB060EMA AXB060EPA	15 - 20 TON

STEP 1:

Check for correct number of parts. See list below.

- 1 - Economizer Assembly (Discharge Air Sensor Included)
- 1 - Barometric Relief Hood
- 1 - Top Spacer
- 1 - Divider
- 1 - Hardware Bag

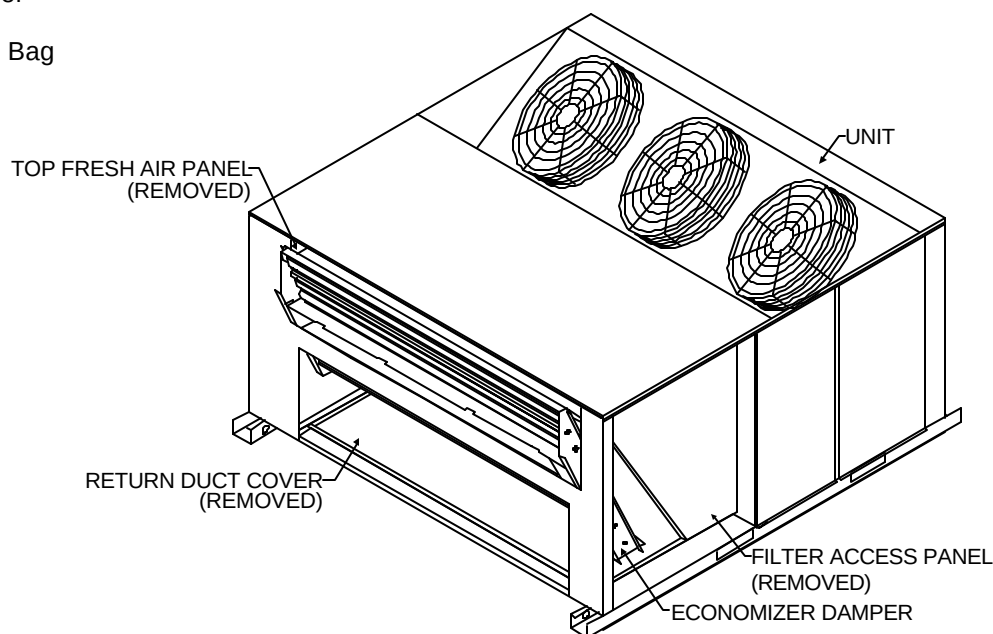


Figure 2

STEP 2:

Disconnect all power to unit.

STEP 3:

Remove the following parts shipped with the air conditioning unit:

- A - Fresh air hood top
- B - Fresh air filters and spacer
- C - Filter access panel
- D - Fresh Air hood sides
- E - Filters
- F - Top fresh air panel (discard panel but retain screws)
- G - Lower return duct cover (discard panel but retain screws)

STEP 4:

Take the economizer damper and slide into the top opening. Damper must slide at a 30 degree angle off the face of the cabinet as shown in Figure 3.

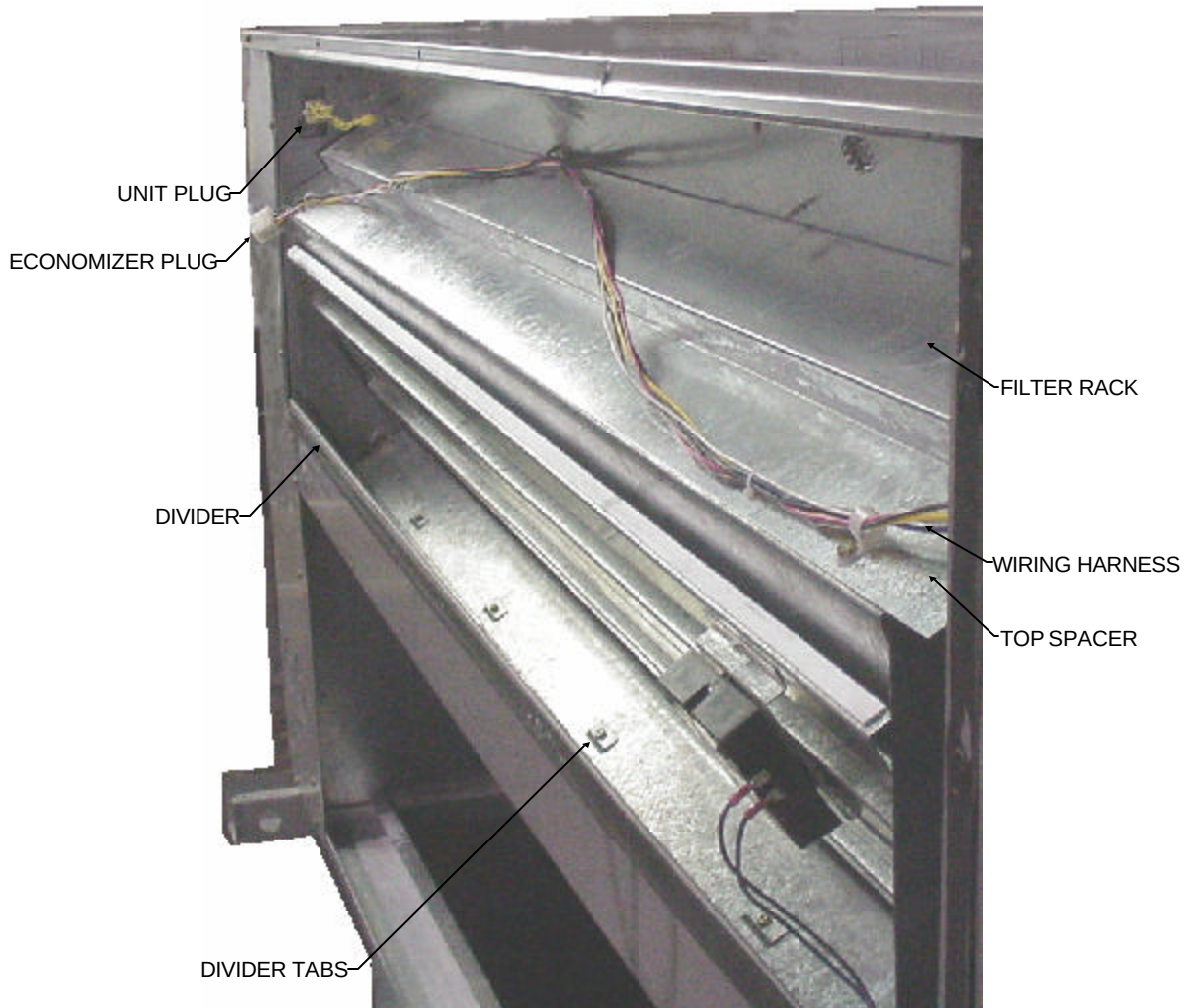


Figure 3

STEP 5:

Once damper is set on the base of A/C. Insert top spacers 1" flange up under top filter rack push damper back towards filter rack and screw to top spacer.

STEP 6:

Insert divider tabs into divider of damper let drop into place and secure with screws.

STEP 7:

Route wiring harness up and around damper and plug into unit plug. Secure harness up out of the way of damper blades.

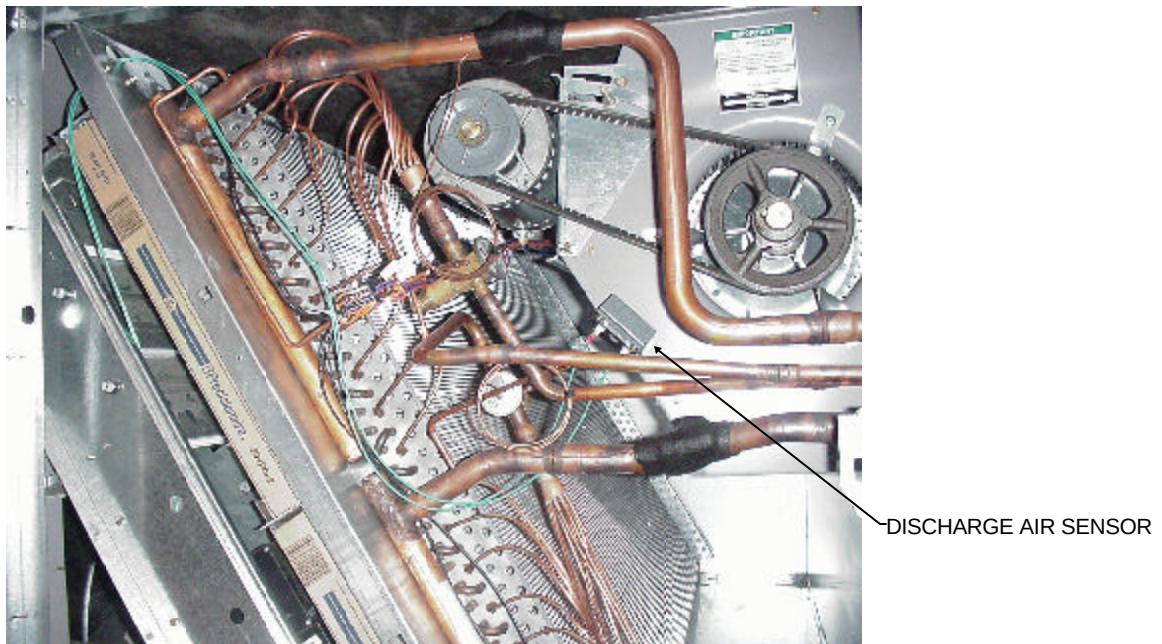


Figure 4

STEP 8:
Install the discharge air sensor as shown in Figure 4.

STEP 9:
Install barometric relief hood over lower return opening using screws retain from Step 3.

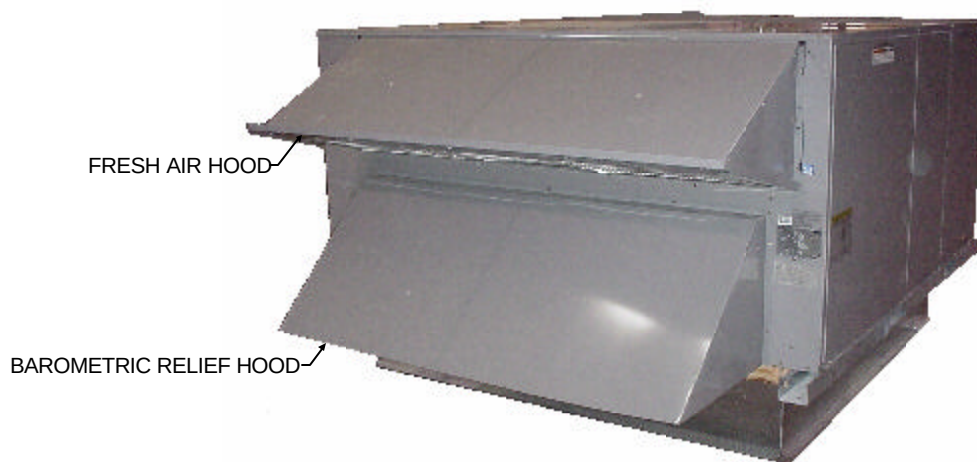
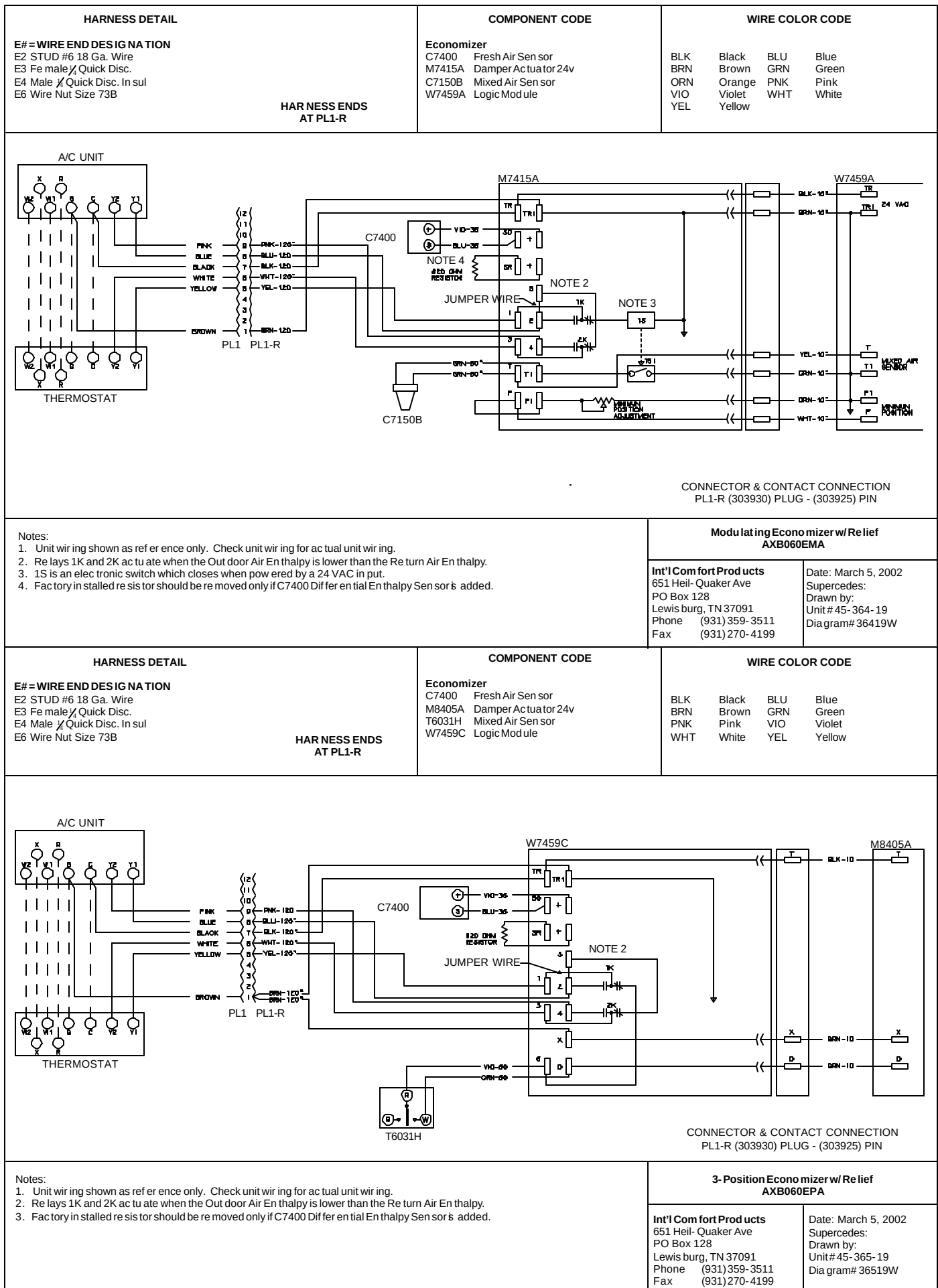


Figure 5

STEP 10:
Follow installation of fresh air hood that comes with air conditioner.

STEP 11:
Replace all panels and restore power to the unit.



INSTALLATION INSTRUCTIONS AXB060PEH/AXB060PEL/AXB060PES POWER EXHAUST

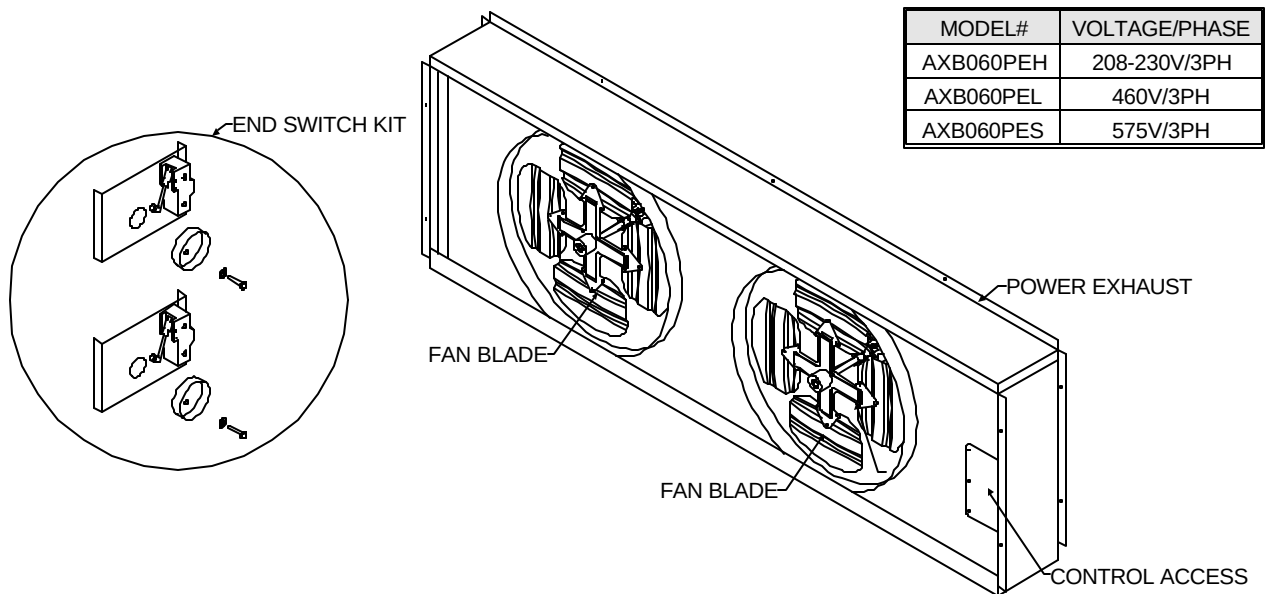


Figure 1

STEP 1:

Check for correct number of parts. See list below.

- 1 - Power Exhaust Assembly
- 1 - End Switch Kit
- 1 - Hardware Bag

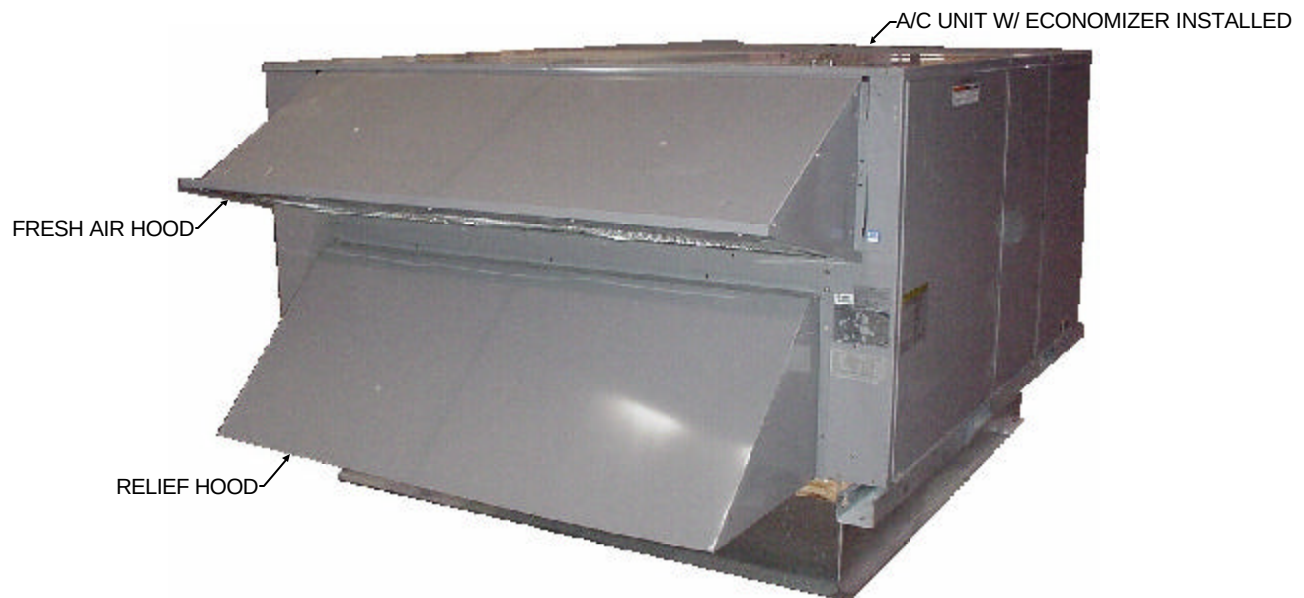


Figure 2

STEP 2:

Disconnect all power to unit.

STEP 3:

Remove the relief hood of economizer and retain the screws.

STEP 4:

Install the power exhaust where relief hood was mounted using same holes and screws from step 3.

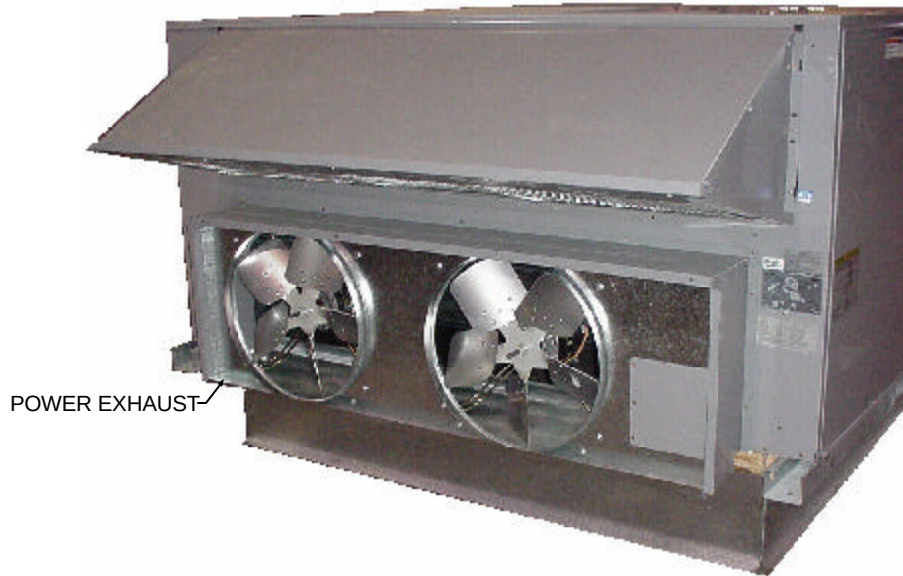


Figure 3

STEP 5:

Reinstall economizer relief hood over front of power exhaust using screws provided.



Figure 4

STEP 6:

Install end switch kit to economizer using prepunched holes in economizer frame. Set cam over damper blade pivot and secure with self tapping screws w/ washer provided.

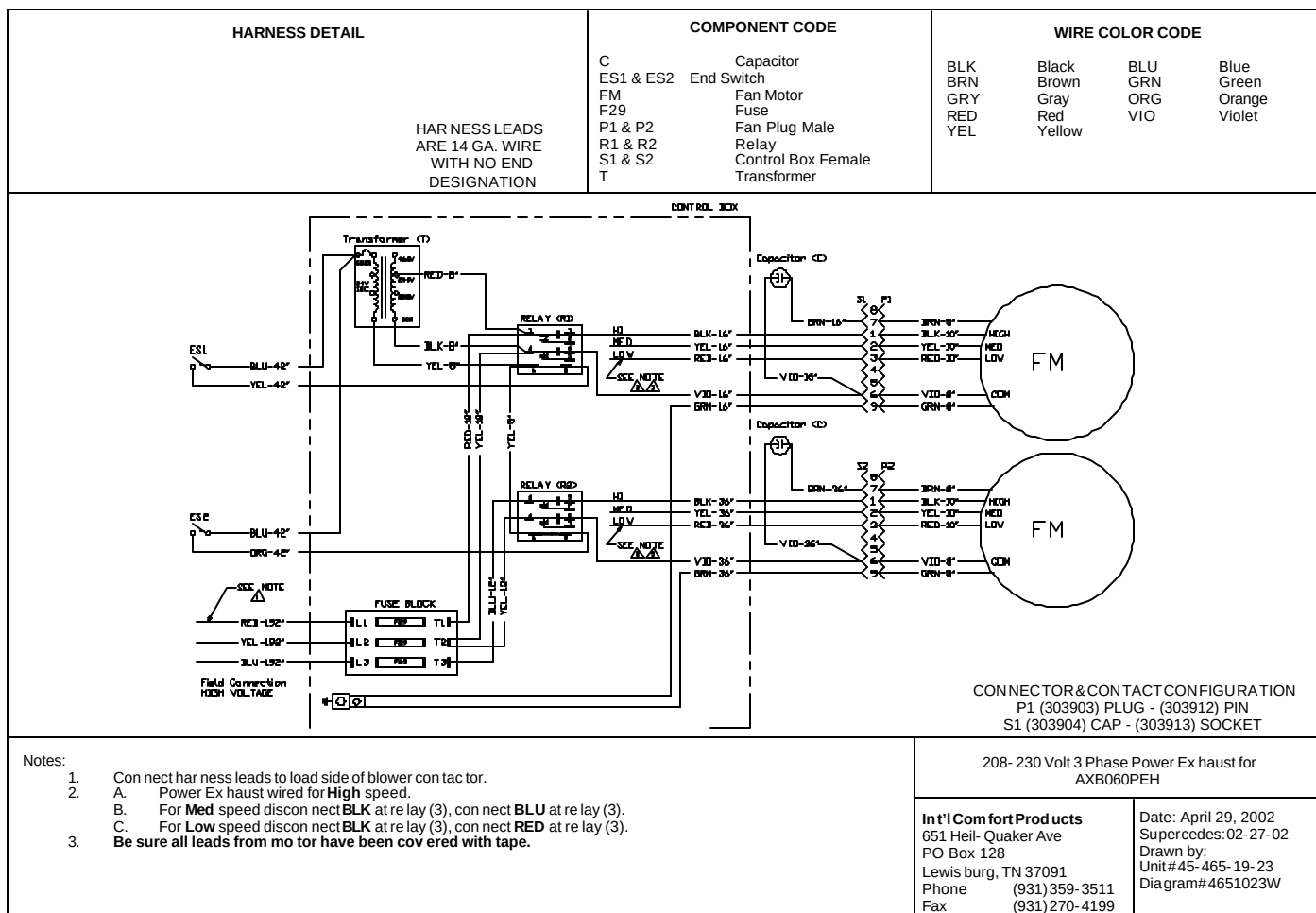
STEP 7:

End switch wires through economizer side panel and connect to end switch per diagram.

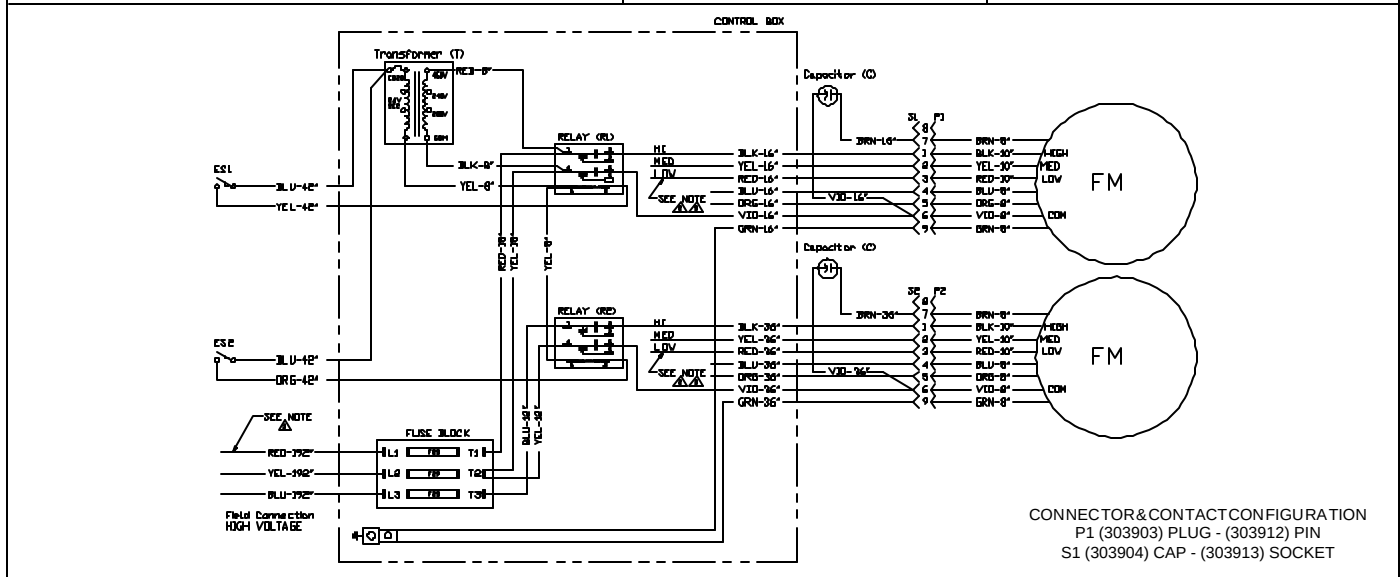


Figure 5

VOLT	PHASE	MOTOR			UNIT (PER CIR CUIT)					CFM @ .1
		HP	RPM	QTY	CIR. QTY	LRA	FLA	MCA	FUSE SIZE	
208/230	3	3/4	1075	2	1	24.9	10.0	12.6	15	9,600
460						N/A	4.4	5.6	8	
575			1050				3.0	3.8	5	



HARNESS DETAIL	COMPONENT CODE	WIRE COLOR CODE
HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION	C Capacitor ES1 & ES2 End Switch FM Fan Motor F29 Fuse P1 & P2 Fan Plug Male R1 & R2 Relay S1 & S2 Control Box Female	BLK Black BLU Blue BRN Brown GRN Green GRY Gray ORG Orange RED Red VIO Violet YEL Yellow



The Coil Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- 1 - Rear Coil Guard
- 1 - Hardware Package
 - #10- 16 x $\frac{1}{2}$ Screw
 - Installation Instruction

STEP 1:

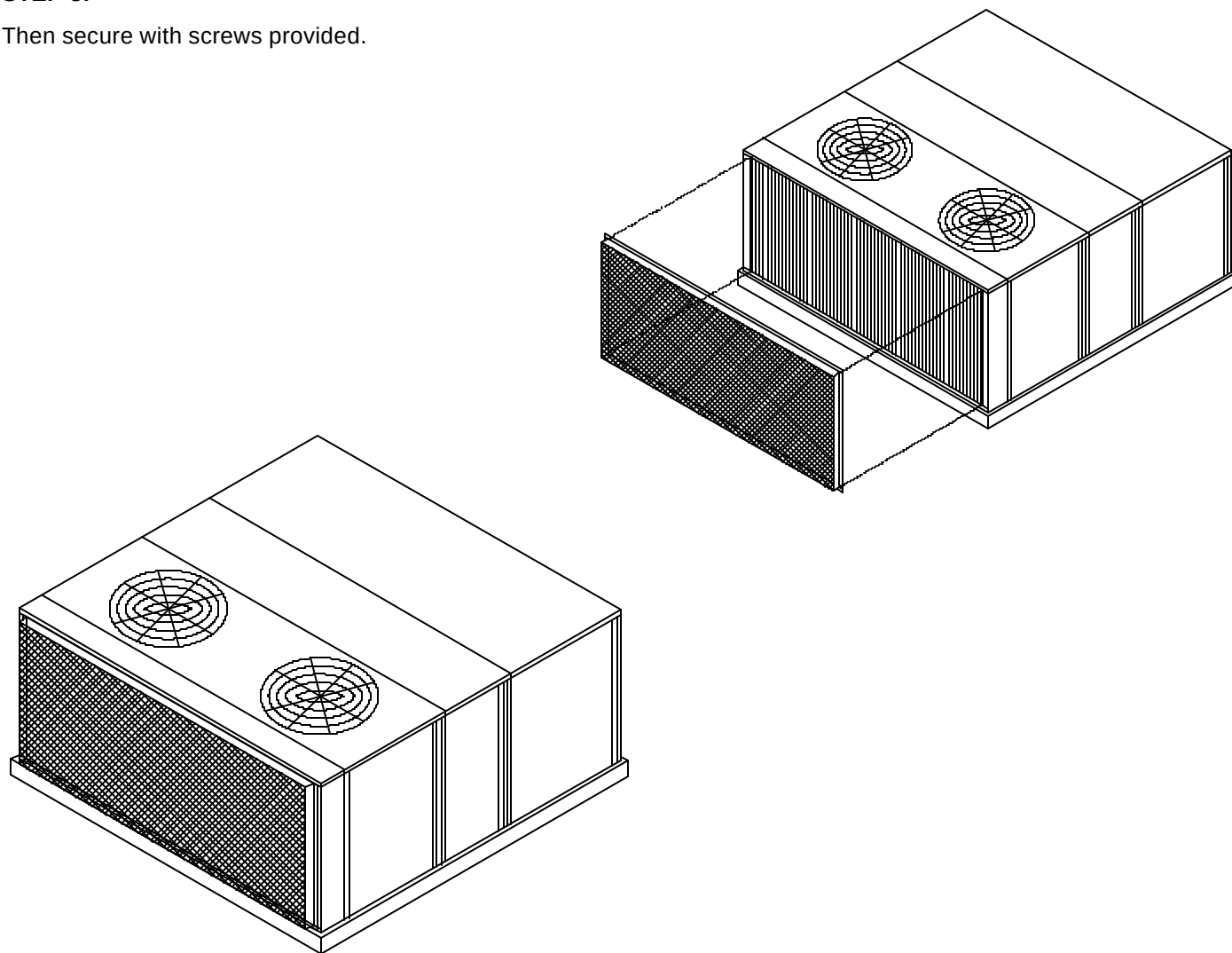
Check for correct model number and number of parts above:

STEP 2:

Take rear coil guard and center left to right with top flange of guard under top of unit.

STEP 3:

Then secure with screws provided.



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The Hail Guard is designed to prevent damage to the condensor coil of the unit. The following list of parts are required:

STEP 1:

Check for correct number of parts. See list below.

- 1 - Rear Hail Guard (A)
- 1 - Rear Top Panel (B)
- 2 - Vertical Side Panel (C)
- 1 - Hardware Package
#10- 16 x ½ Screw
Installation Instruction

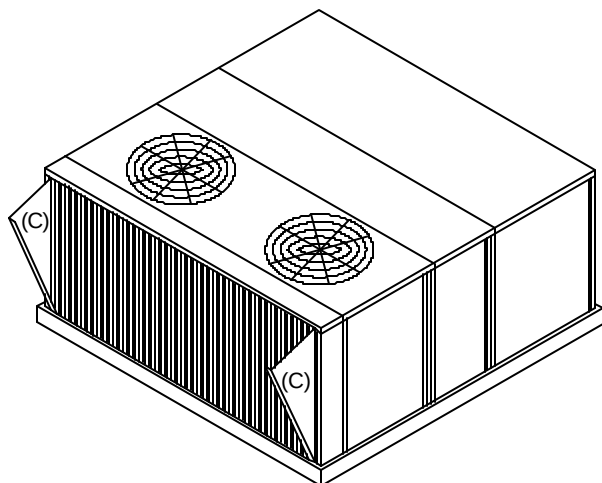


Figure 2

STEP 3:

Then secure (A) hail guard in between clips on vertical side panel and close clips to hold in position.

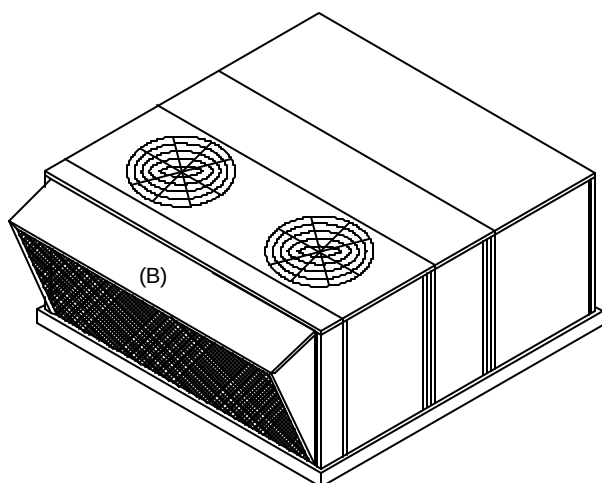


Figure 4

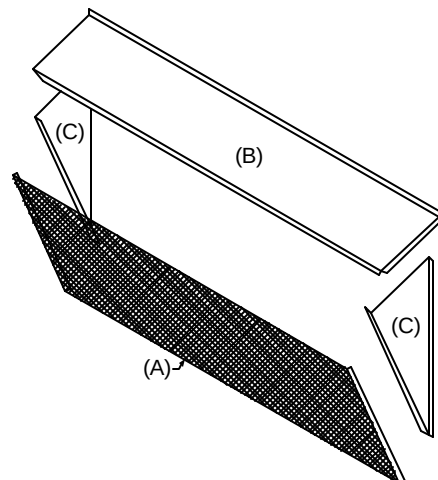


Figure 1

STEP 2:

Take (C) vertical side panel and align inside of side panels with outside edge of coil. Then secure with the screws provided.

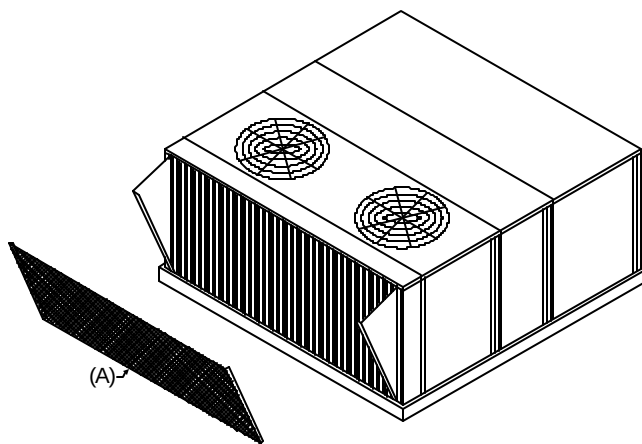


Figure 3

STEP 4:

Now secure the (B) rear top panel flange under top of unit and flange over side panels. Then secure with screws provided.

The mixing box is designed for the automatic sensor-controlled introduction of outdoor air into the system through an electro-mechanically controlled damper.

STEP 1:

Check for correct number of parts. See list below:

- 1 ea. - Mixing Box
- 1 ea. - Fresh Air Sensor (Mount on Fresh Air Blades)
- 12 ea. - #10-16 x ½" Self tapping screws.

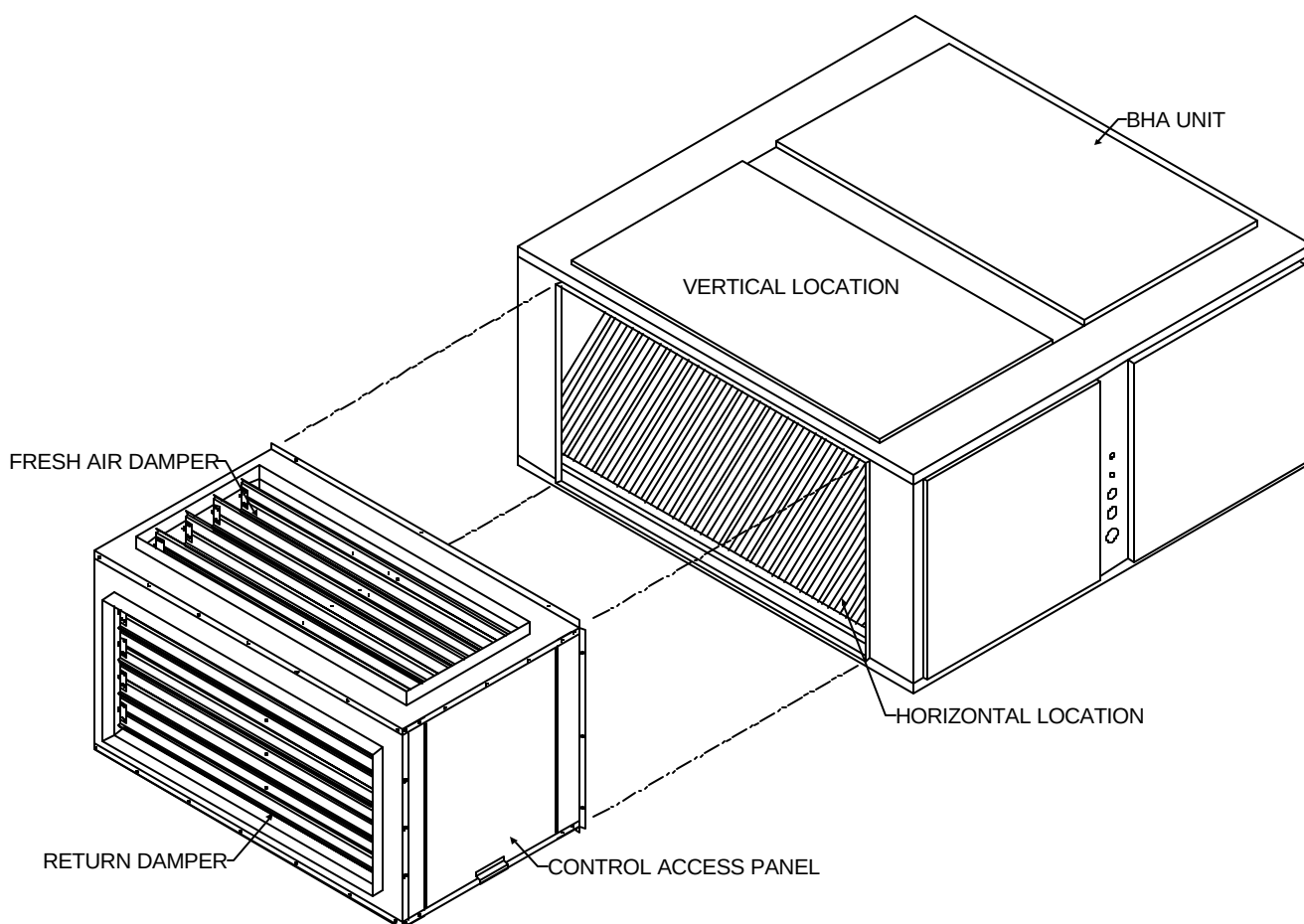


FIGURE 1

STEP 2:

Locate mixing box over appropriate opening and secure to face of unit. See Figure 2.

STEP 3:

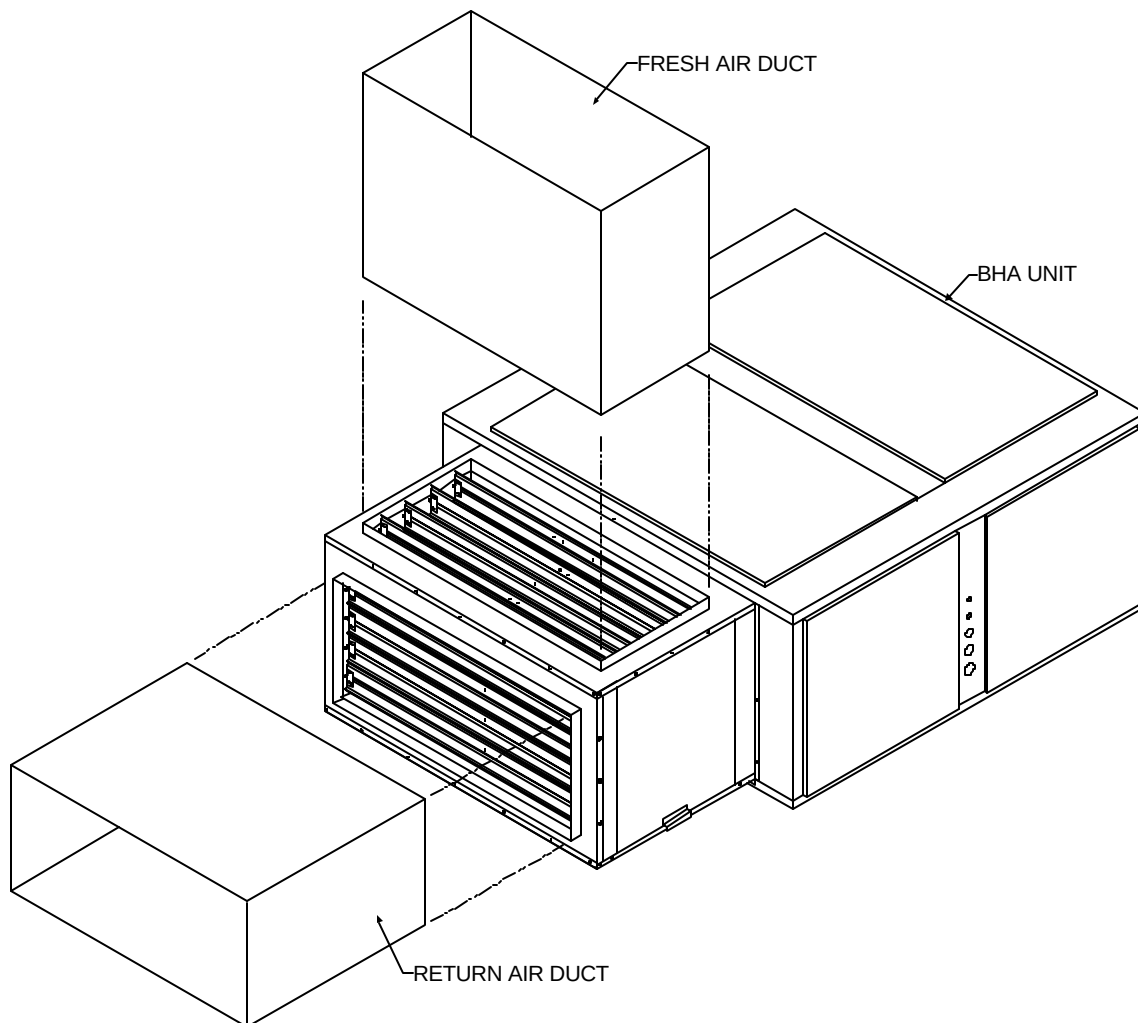
Route wiring from terminal strip (TS-1) of mixing box to the low voltage wiring of BHA unit and connect as shown in diagram on back.

STEP 4:

Disconnect fresh air sensor from blades and relocate to the end of fresh air duct by outside air inlet. Wiring can be run in or out of duct.

STEP 5:

Connect return and fresh air duct to mixing box duct connections.



STEP 6:

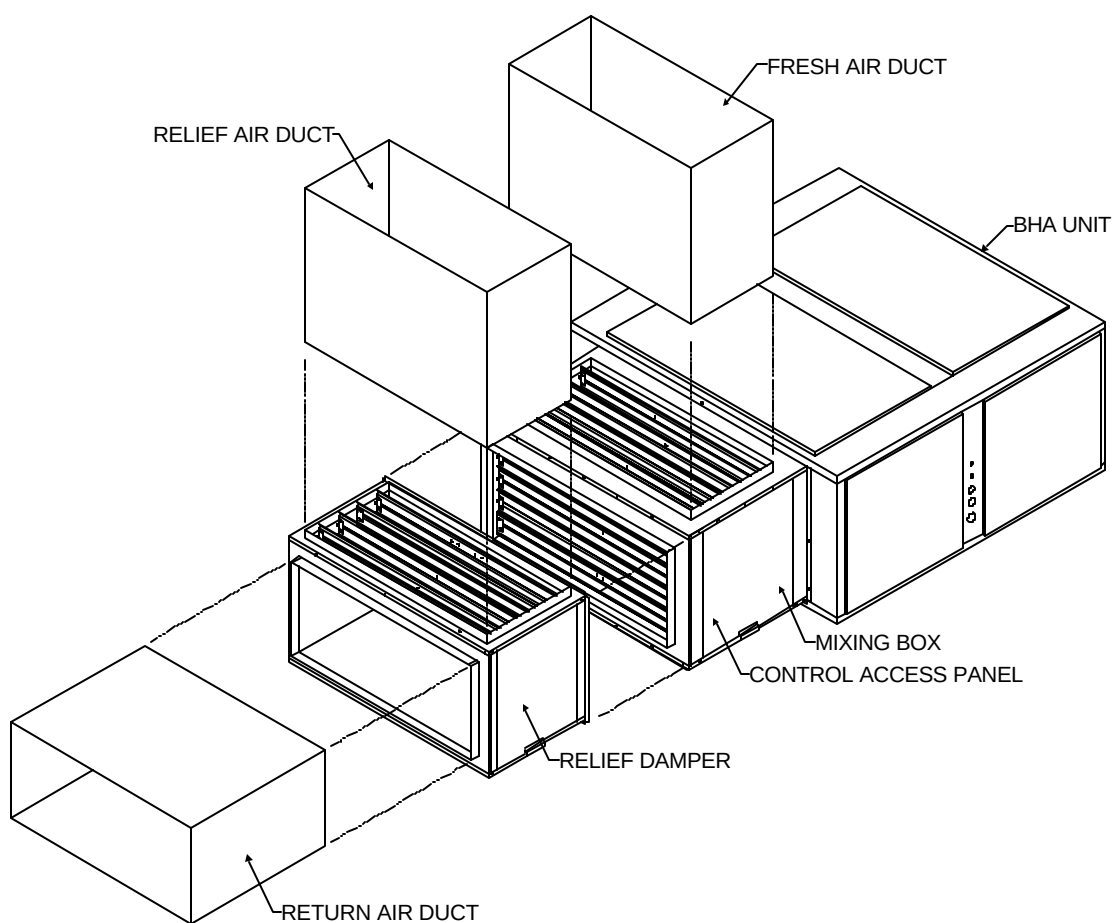
When a relief damper is used it requires a relief duct addition and the return duct to be moved to the front of relief damper.

STEP 7:

Run the wiring from the relief damper motor to the mixing box module.

STEP 8:

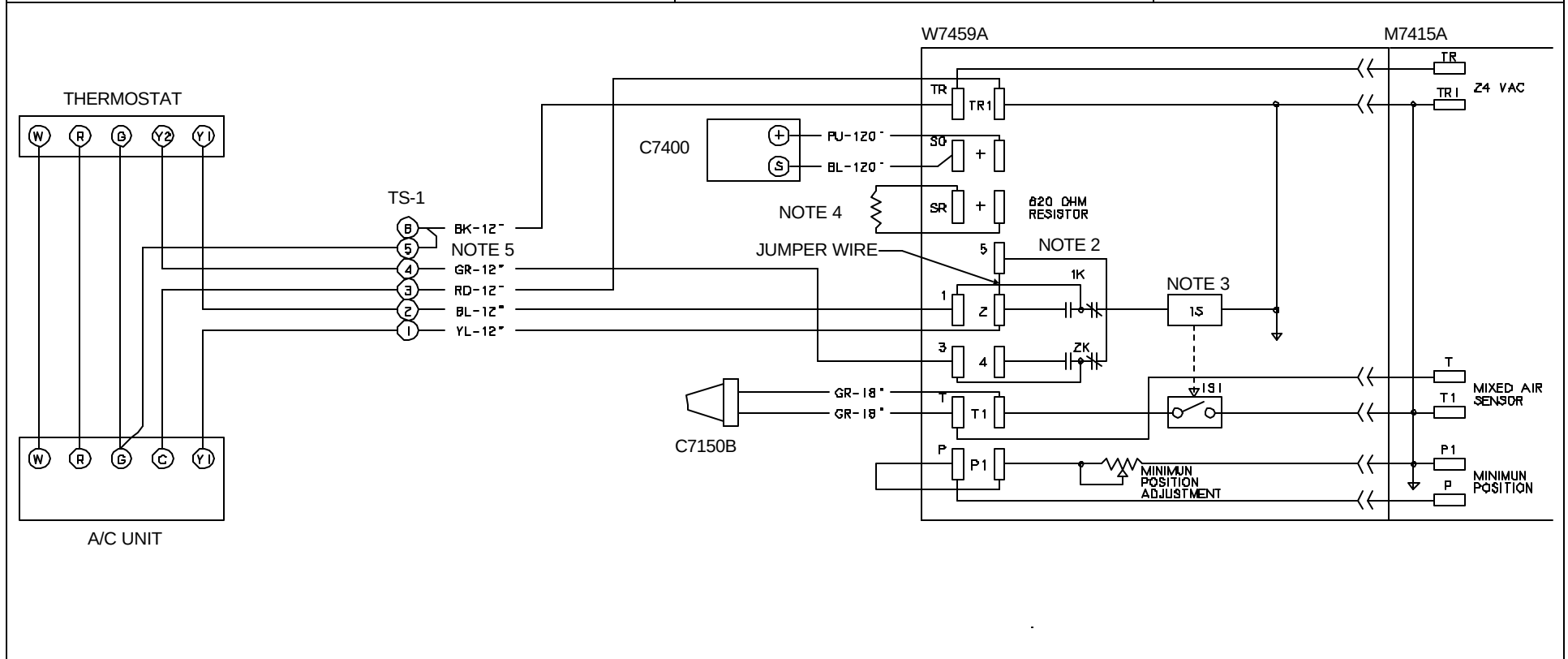
Mount the relief damper to face of mixing box over return damper.



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HARNESSDETAIL	COMPONENTCODE	WIRE COLOR CODE
E# = WIRE END DESIGNATION E2 STUD #6 18 Ga. Wire E3 Female ¼ Quick Disc. E4 Male ¼ Quick Disc. Insul E6 Wire Nut Size 73B	Economizer TS-1 Economizer Terminal Strip C7400 Fresh Air Sensor M7415A Damper Actuator 24v C7150B Mixed Air Sensor W7459A Logic Module	RD Red BL Blue GR Green YL Yellow PU Purple BK Black
NO HARNESS		



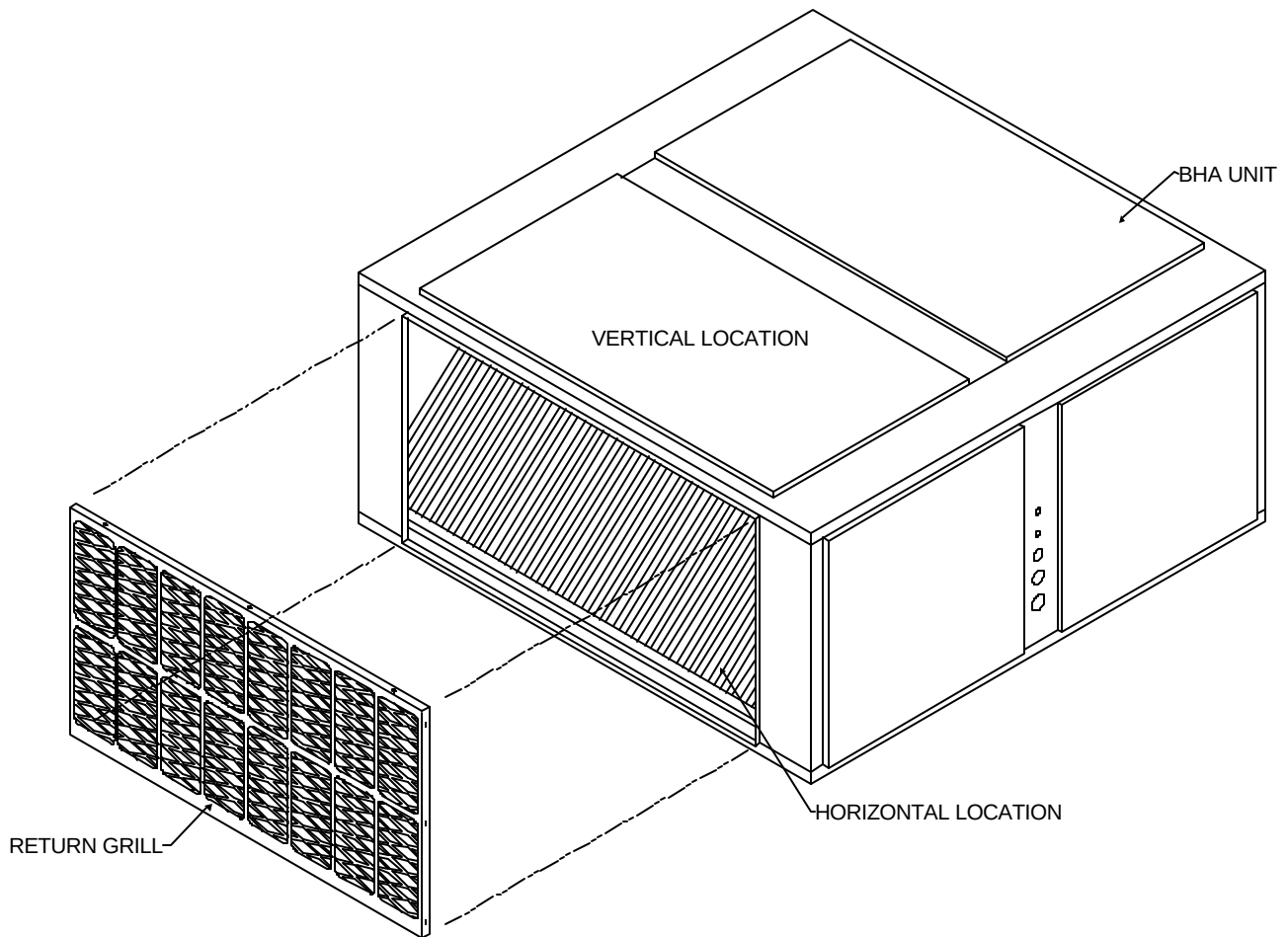
Notes: 1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring. 2. Relays 1K and 2K actuate when the Outdoor Air Enthalpy is lower than the Return Air Enthalpy. 3. 1S is an electronic switch which closes when powered by a 24 VAC in put. 4. Factory installed resistor should be removed only if C7400 Differential Enthalpy Sensor is added. 5. Remove Jumper for Optional Controls	Standard "374" Modulating Economizer	
	INT'L COMFORT PRODUCTS 651 HEIL-QUAKER AVE POST OFFICE BOX 128 LEWISBURG, TENNESSEE 37091 PHONE: (931) 359-3511 FAX: (931) 270-4199	Date: April 13, 1993
		Drawn by:
		Unit # 01-374-01
		Diagram# 0137401W

The return grill may be installed in the horizontal position as shown or in the vertical position over opening indicated.

STEP 1:

Check for correct number of parts. See list below:

- 1 ea. - Return Grill
- 12 ea. - #10 - 16 x ½" Self Tapping Screws



STEP 2:

Locate return grill over appropriate opening and screw into duct flange of opening.

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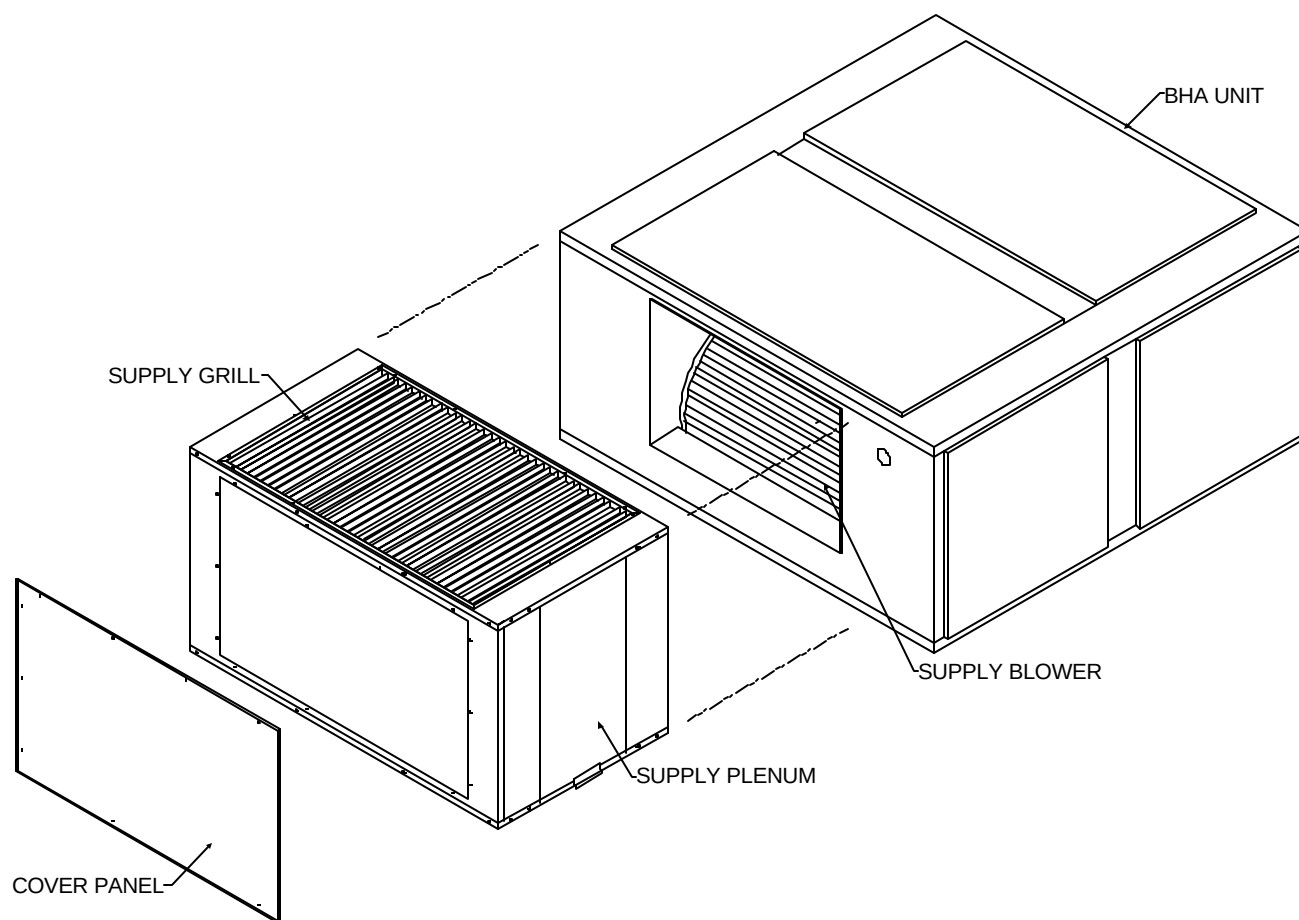
The supply plenum may be installed in the vertical position as shown or in the horizontal position over opening indicated.

STEP 1:

Check for correct number of parts. See list below:

- 1 ea. - Supply Plenum
- 1 ea. - Supply Grill (Attached)
- 1 ea. - Cover Panel (Attached)
- 12 ea. - #10 - 16 x ½" Self Tapping Screws

Note: Supply grill and cover panel can be interchanged according to application.

**STEP 2:**

Locate supply plenum over opening and screw into the face of unit over blower opening.

STEP 3:

Locate supply grill and cover panel in the appropriate places.

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The Coil Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- A - Rear Coil Guard (1)
- B - Side Coil Guard (1)
- C - Hardware Package (1)
 - 12 - #10- 16 x $\frac{1}{2}$ Screw
 - 1 - Installation Instruction

MODEL	UNIT SIZE
AGC09CU0A	12.5 TON
AGC10CU0A	15 TON

STEP 1:

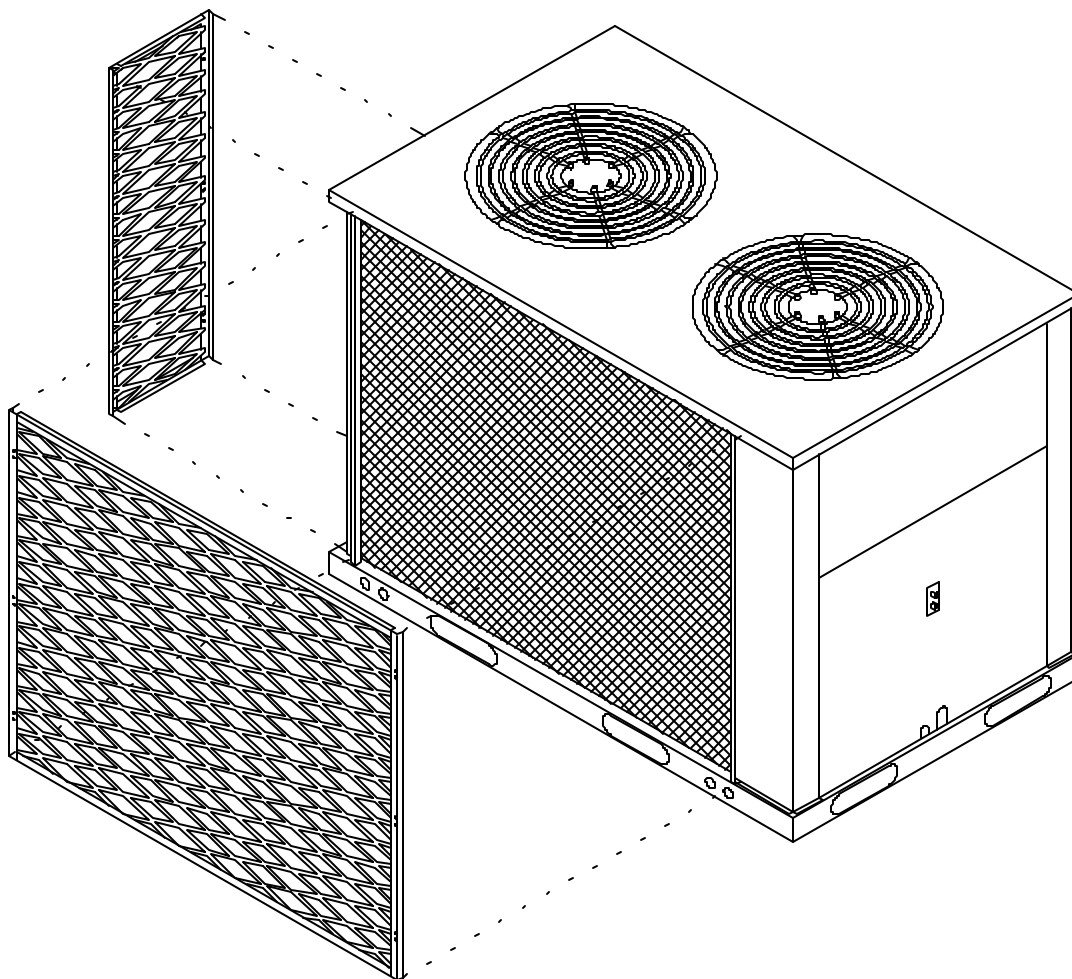
Check for correct model number and number of parts above:

STEP 2:

Take (A) rear coil guard and align holes with corner posts of unit and secure.

STEP 3:

Then take (B) side coil guard and align holes with corner posts of unit and secure.



The Coil Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- A - Side Coil Guard (2)
- B - Hardware Package (1)
 - 12 - #10- 16 x ½ Screw
 - 1 - Installation Instruction

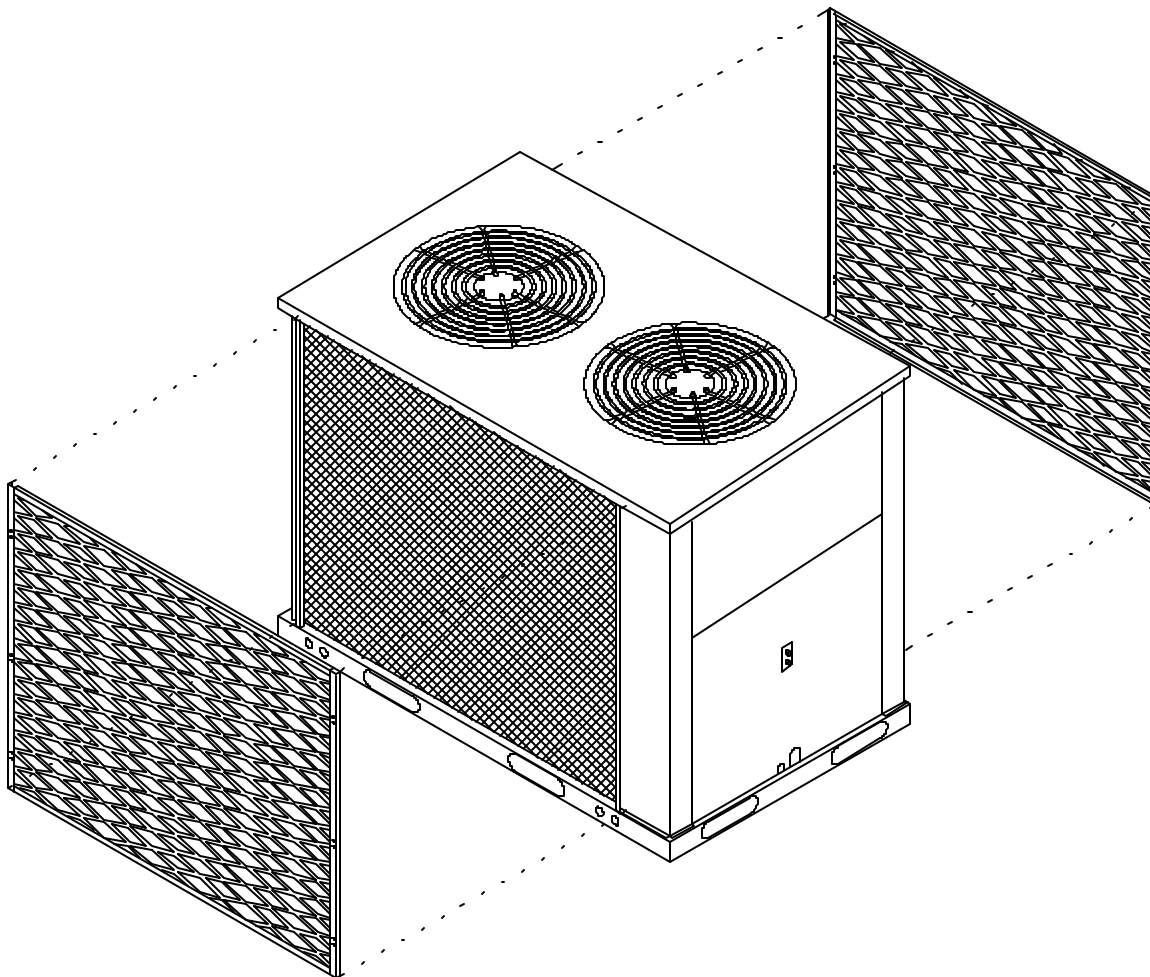
MODEL	UNIT SIZE
AGC11CU0A	20 TON

STEP 1:

Check for correct model number and number of parts above:

STEP 2:

Then take (B) side coil guard and align holes with corner posts of unit and secure.



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The Hail Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- A - Rear Hail Guard Kit (1)
- B - Side Hail Guard Kit (1)
- C - Rear Top Panel (1)
- D - Side Top Panel (1)
- E - Vertical Side Panel (4)
- F - Hardware Package (1)
 - 24 - #10- 16 x $\frac{1}{2}$ Screw
 - 1 - Installation Instruction

MODEL	UNIT SIZE
AGH09CU0A	12.5 TON
AGH10CU0A	15 TON

STEP 1:

Check for correct model number and number of parts above:

STEP 2:

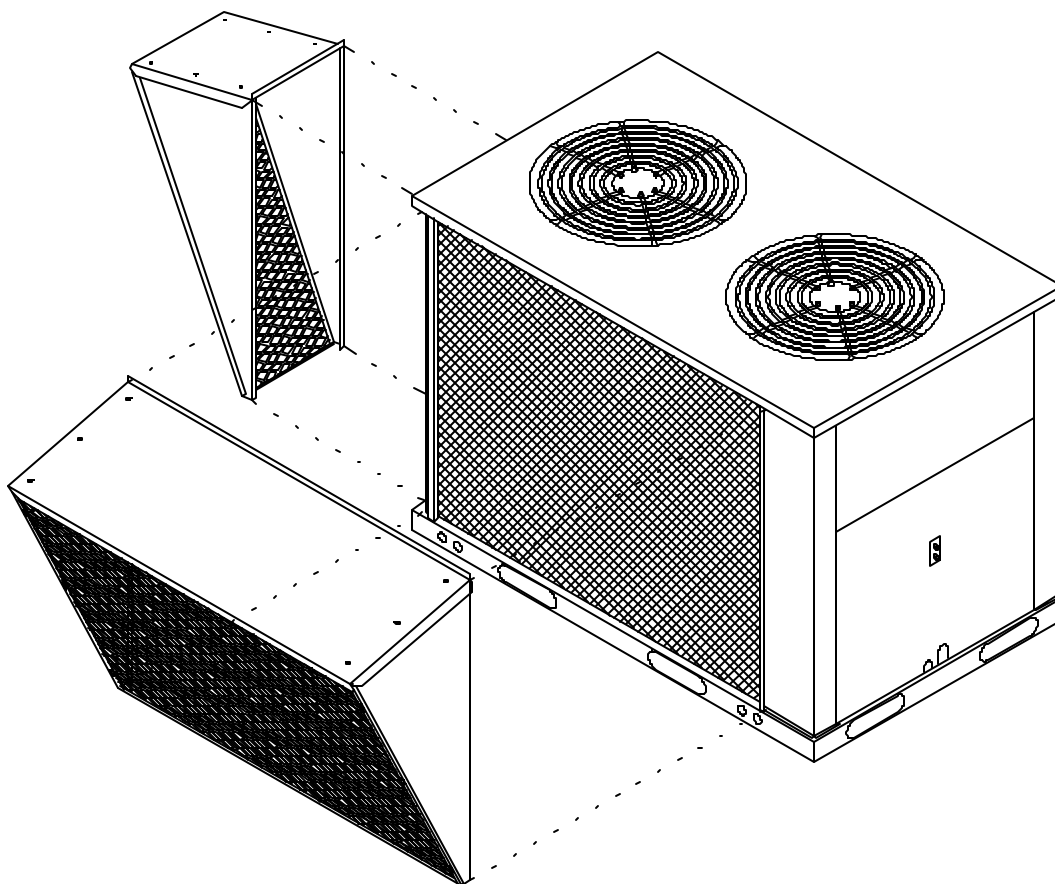
Take (E) vertical side panel and align holes with corner posts of unit and secure.

STEP 3:

Then secure (A) and (B) hail guard kits in holes provided.

STEP 4:

Now secure the (C) rear top panel and (D) side top panel with the .8" flange under top of unit and 2" flange over hail guard kit.



The Hail Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- A - Side Hail Guard Kit (2)
- B - Side Top Panel (2)
- C - Vertical Side Panel (4)
- D - Hardware Package (1)
 - 24 - #10- 16 x $\frac{1}{2}$ Screw
 - 1 - Installation Instruction

MODEL	UNIT SIZE
AGH11CU0A	20 TON

STEP 1:

Check for correct model number and number of parts above:

STEP 2:

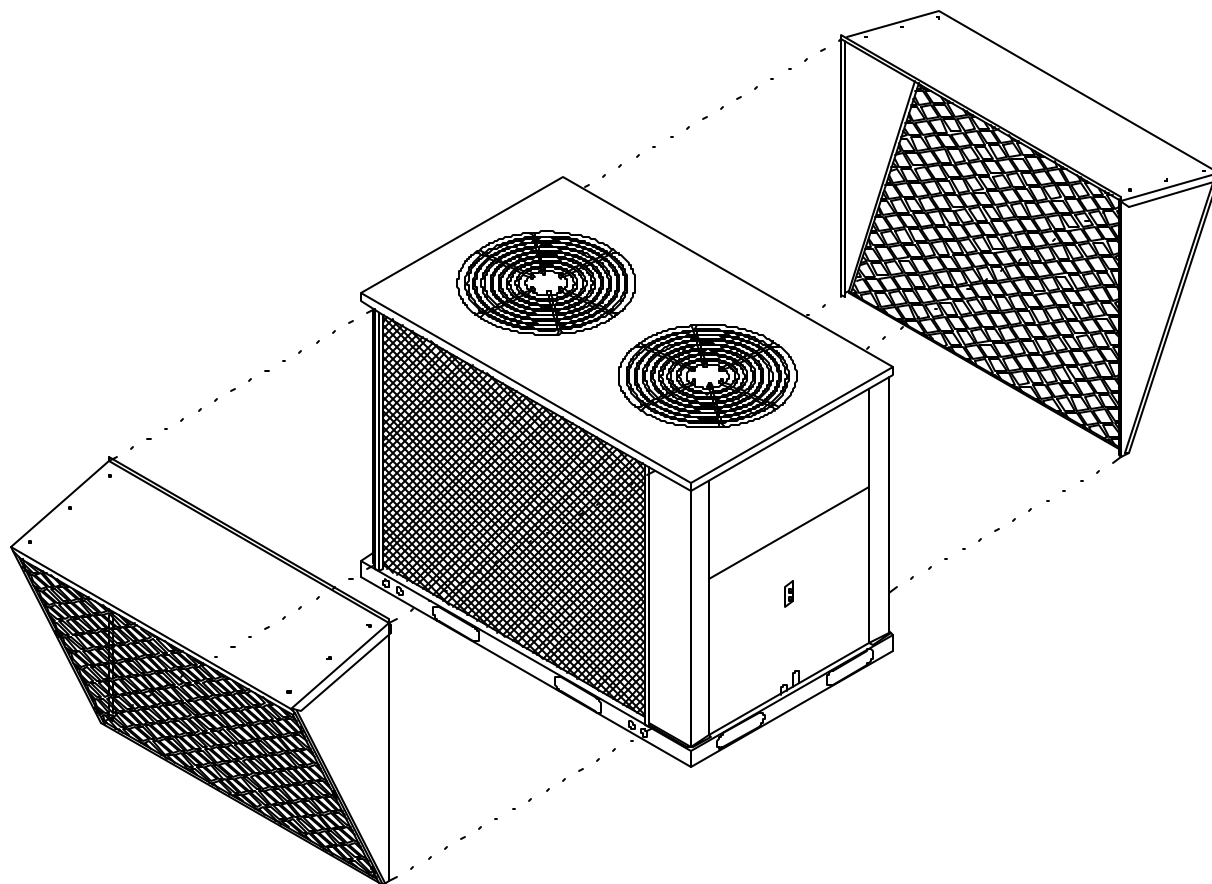
Take (C) vertical side panel and align holes with corner posts of unit and secure.

STEP 3:

Then secure (A) hail guard kits in holes provided.

STEP 4:

Now secure the (B) side top panel with the .8" flange under top of unit and 2" flange over hail guard kit.



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The Coil Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- A - Rear Coil Guard (1)
- B - Side Coil Guard (1)
- C - Hardware Package (1)
 - 12 - #10- 16 x $\frac{1}{2}$ Screw
 - 1 - Installation Instruction

MODEL	UNIT SIZE
AGC09CU0A	12.5 TON
AGC10CU0A	15 TON

STEP 1:

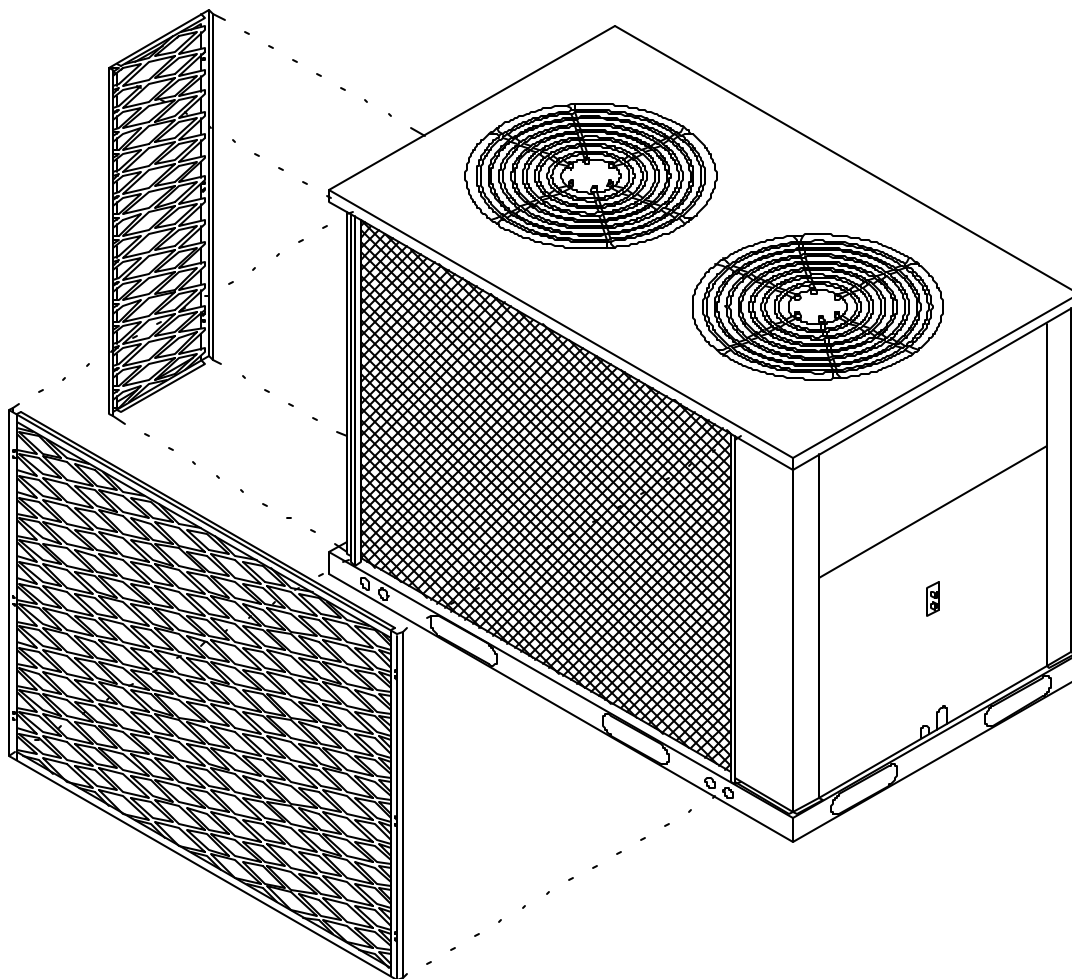
Check for correct model number and number of parts above:

STEP 2:

Take (A) rear coil guard and align holes with corner posts of unit and secure.

STEP 3:

Then take (B) side coil guard and align holes with corner posts of unit and secure.



The Coil Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- A - Side Coil Guard (2)
- B - Hardware Package (1)
 - 12 - #10- 16 x ½ Screw
 - 1 - Installation Instruction

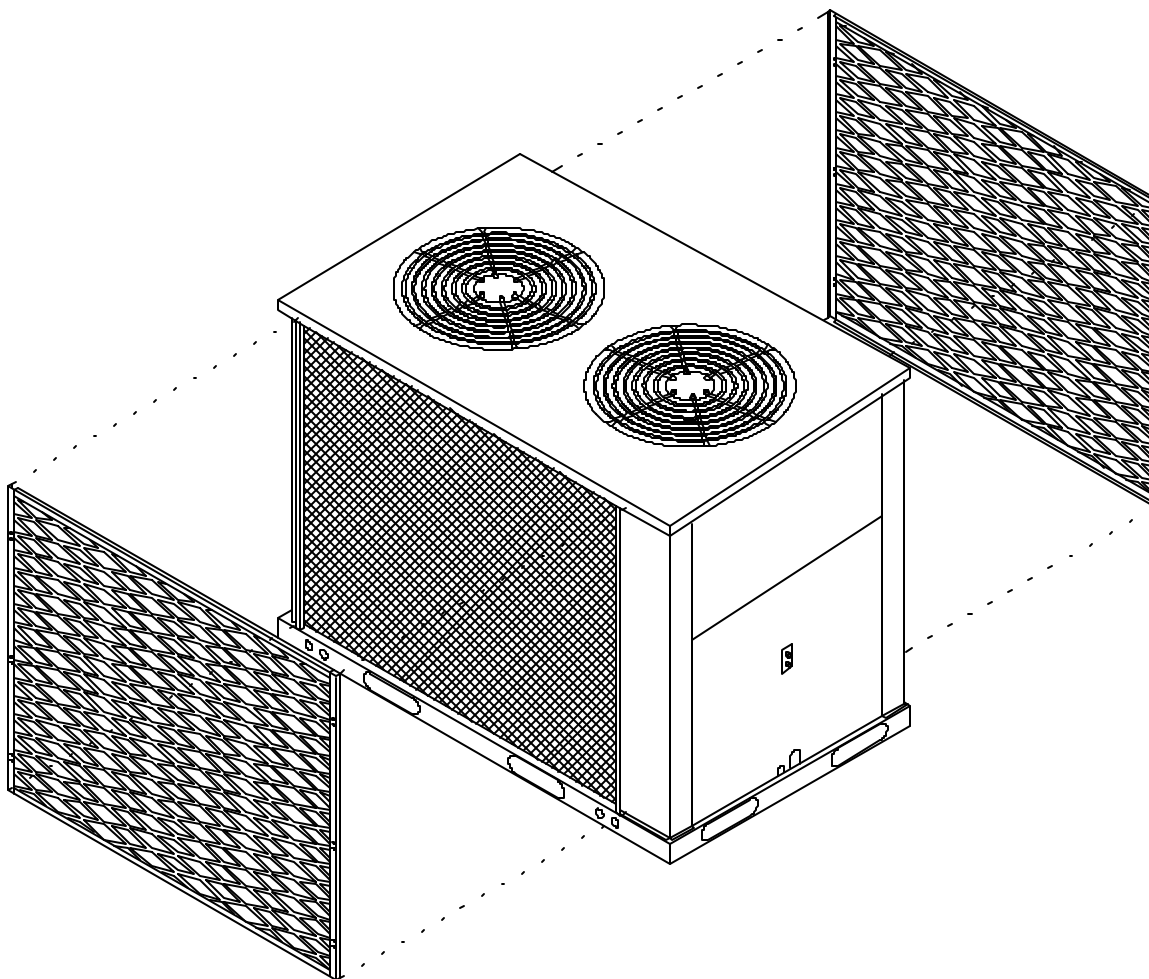
MODEL	UNIT SIZE
AGC11CU0A	20 TON

STEP 1:

Check for correct model number and number of parts above:

STEP 2:

Then take (B) side coil guard and align holes with corner posts of unit and secure.



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The Hail Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- A - Rear Hail Guard Kit (1)
- B - Side Hail Guard Kit (1)
- C - Rear Top Panel (1)
- D - Side Top Panel (1)
- E - Vertical Side Panel (4)
- F - Hardware Package (1)
 - 24 - #10- 16 x $\frac{1}{2}$ Screw
 - 1 - Installation Instruction

MODEL	UNIT SIZE
AGH09CU0A	12.5 TON
AGH10CU0A	15 TON

STEP 1:

Check for correct model number and number of parts above:

STEP 2:

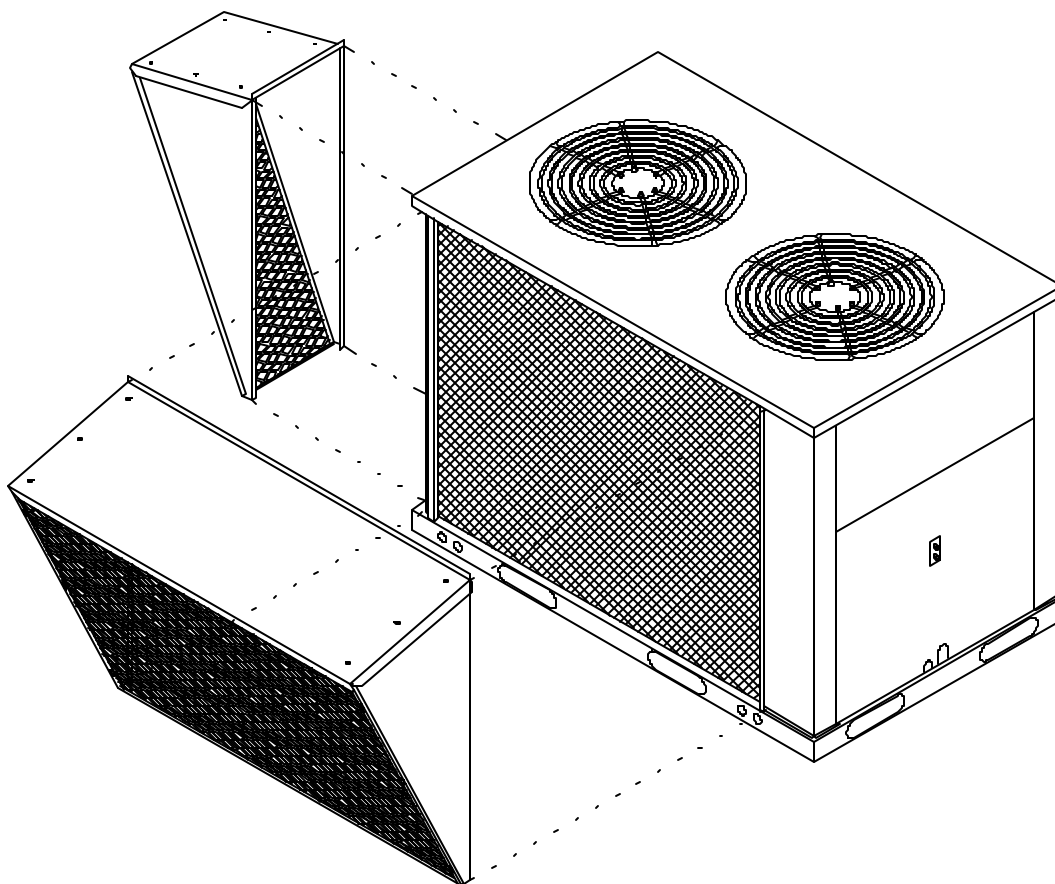
Take (E) vertical side panel and align holes with corner posts of unit and secure.

STEP 3:

Then secure (A) and (B) hail guard kits in holes provided.

STEP 4:

Now secure the (C) rear top panel and (D) side top panel with the .8" flange under top of unit and 2" flange over hail guard kit.



The Hail Guard is designed to prevent damage to the condenser coil of the unit. The following parts are required:

- A - Side Hail Guard Kit (2)
- B - Side Top Panel (2)
- C - Vertical Side Panel (4)
- D - Hardware Package (1)
 - 24 - #10- 16 x 1/2 Screw
 - 1 - Installation Instruction

MODEL	UNIT SIZE
AGH11CU0A	20 TON

STEP 1:

Check for correct model number and number of parts above:

STEP 2:

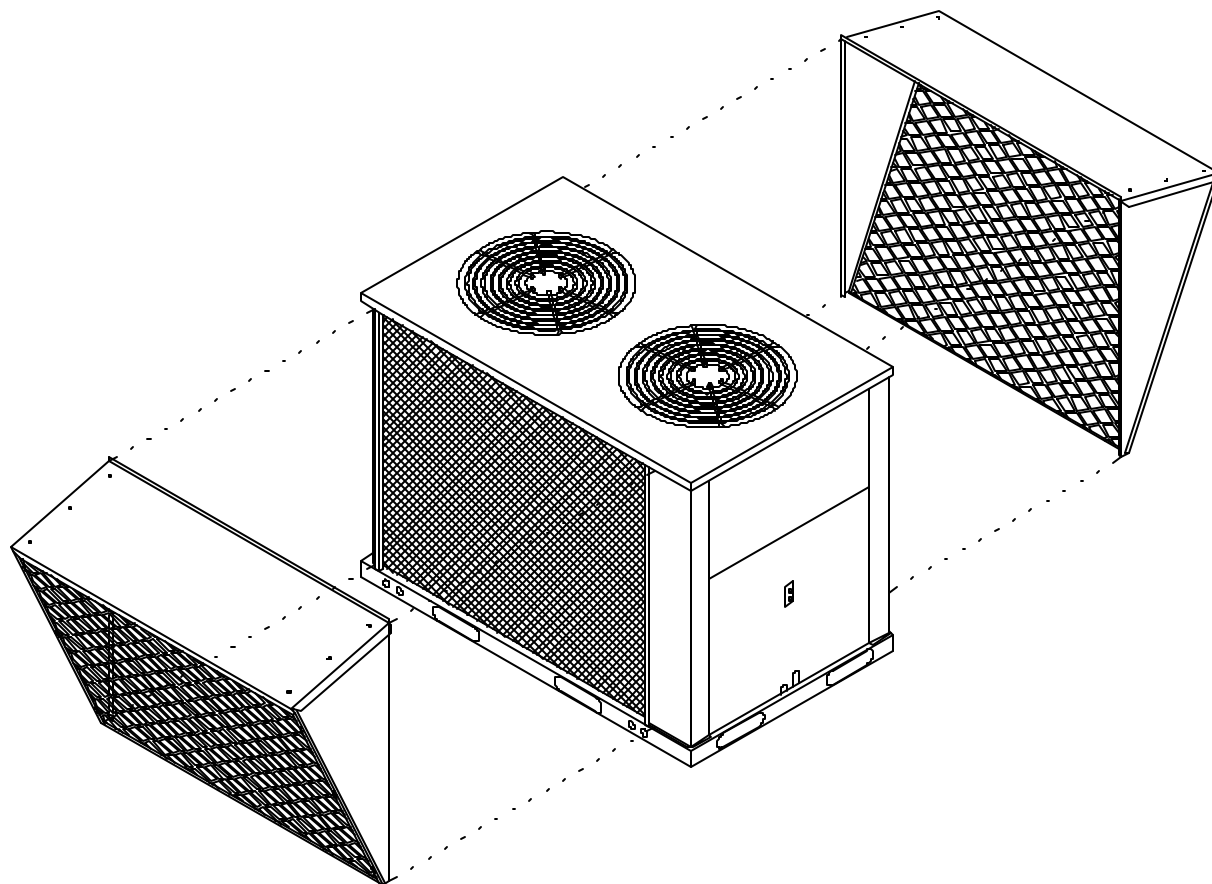
Take (C) vertical side panel and align holes with corner posts of unit and secure.

STEP 3:

Then secure (A) hail guard kits in holes provided.

STEP 4:

Now secure the (B) side top panel with the .8" flange under top of unit and 2" flange over hail guard kit.

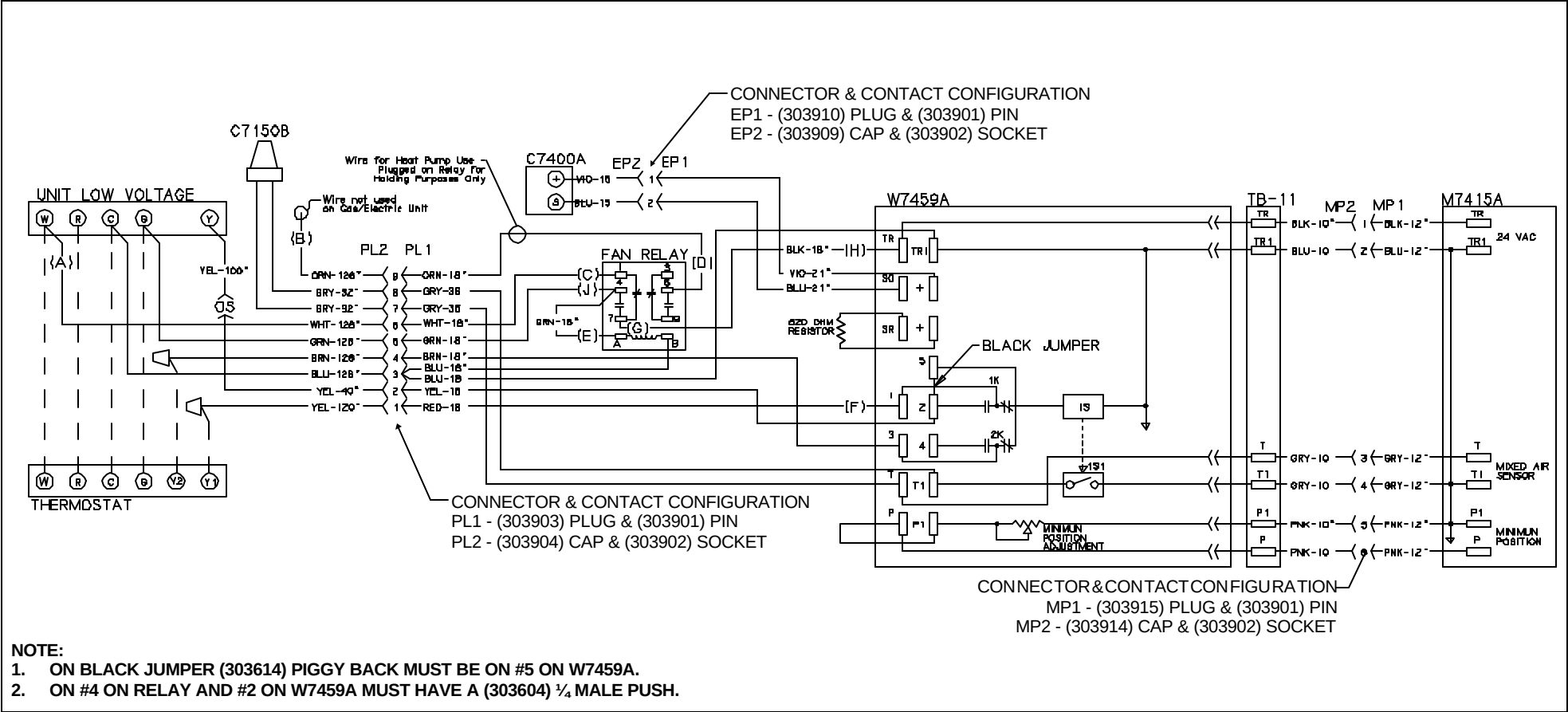


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MATERIALSLIST		
QTY.	RSI PART#	DESCRIPTION
18"	303000	Wire 18 Ga. Red
162"	303001	Wire 18 Ga. Green
36"	303002	Wire 18 Ga. Violet
278"	303003	Wire 18 Ga. Yel low
40"	303004	Wire 18 Ga. Black
144"	303005	Wire 18 Ga. White
220"	303006	Wire 18 Ga. Blue
144"	303007	Wire 18 Ga. Or ange
180"	303008	Wire 18 Ga. Gray
44"	303009	Wire 18 Ga. Pink
144"	303010	Wire 18 Ga. Brown
6"	303080	½ Split Tubing
1	303100	M7415A1006 #1/HW Mo tor
1	303101	W7459A1001 Logic Mod ule
1	303103	C7150B1004 Mixed Air Sen sor
1	303140	C7400A1004 Ent halpy Control
1	303399	Re lay - 24v DPDT
1	303510	TB- 11 Terminal Board
5	303596	¾ Fe male Quick Disc. Insul
1	303597	¾ Male Quick Disc. Insul
2	303604	Male ¾ Push On Adap tor
32	303605	Fe male ¾ Quick Disc.
1	303614	¾ Piggy Back
10	303620	Wire Ties 3 ¾" L
9	303901	AMP Pin Con tact Male
9	303902	AMP Socket Con tact Female
1	303903	AMP 9 Cir Plug Con nec tor Male
1	303904	AMP 9 Cir Cap Con nec tor Fe male
1	303909	AMP 2 Cir Cap Con nec tor Fe male
1	303910	AMP 2 Cir Plug Con nec tor Male
1	303914	AMP 6 Cir Cap Con nec tor Fe male
1	303915	AMP 6 Cir Plug Con nec tor Male

HARNESS DETAIL		COMPONENT CODE				WIRE COLOR CODE			
E# = WIRE END DESIGNATION		Economizer							
E2	STUD #6 18 Ga. Wire	C7400	Fresh Air Sensor	W7459A	Logic Module	BLK	Black	BLU	Blue
E3	Female 3/4 Quick Disc.	PL1	Economizer Plug (Male)	C7150B	Mixed Air Sensor	BRN	Brown	GRN	Green
E4	Male 3/4 Quick Disc. Insul	PL2	Economizer Plug (Female)	M7415A	Damper Actuator 24v	GRY	Gray	ORN	Orange
E6	Wire Nut	EP1	Fresh Air Sensor Plug (Male)			PNK	Pink	RED	Red
		EP2	Fresh Air Sensor Plug (Female)			VIO	Violet	WHT	White
		MP1	Motor Plug (Male)			YEL	Yellow		
		MP2	Motor Plug (Female)						
		TB-11	Terminal Board						

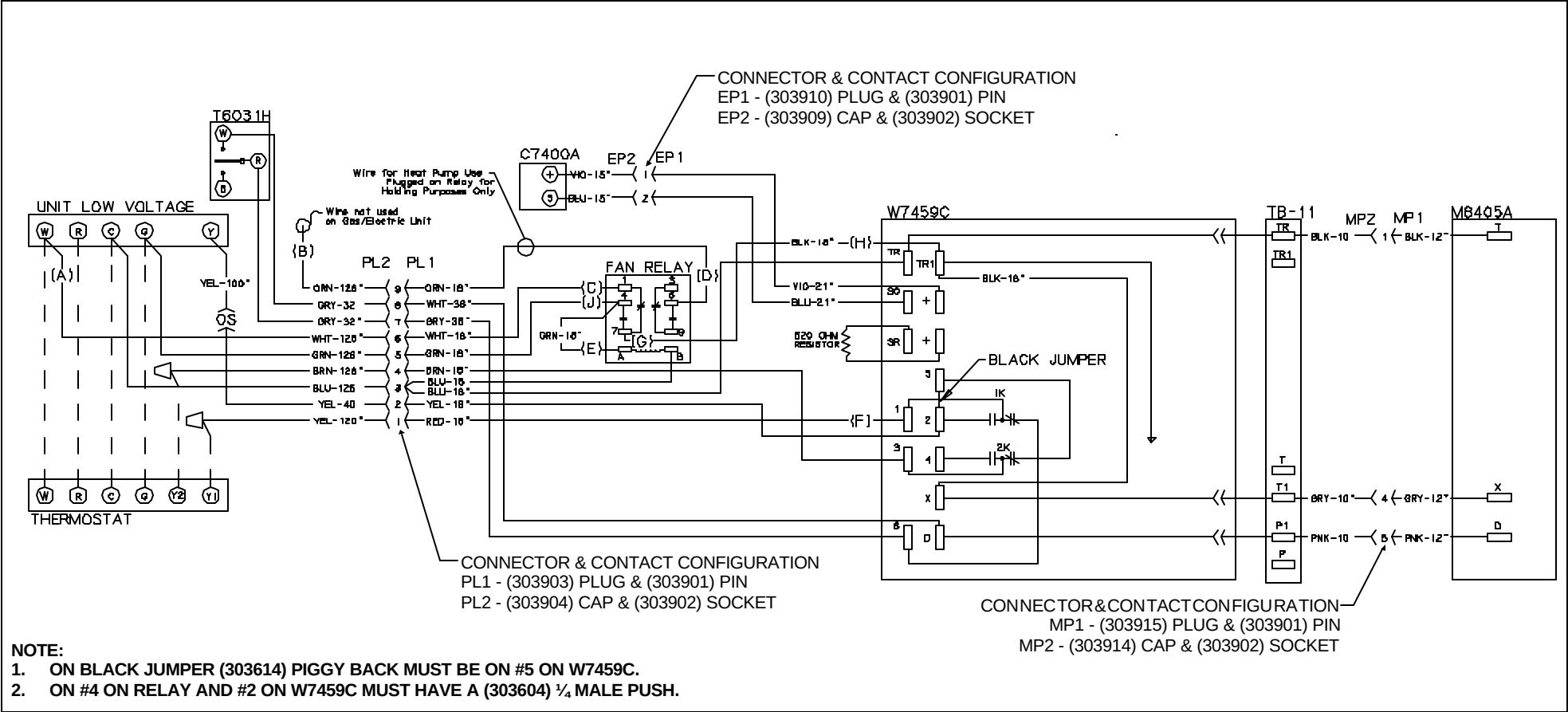
SEE HARNESS
DE TAIL ON BACK
SIDE



Notes: 1. Con nect mixed air sen sor red to “T” and white to “T1”. 2. Unit wir ing shown as ref er ence only. Check unit wir ing for ac tual unit wir ing. 3. Re lays 1K and 2K ac tu ate when the Out door Air En thalpy is higher than the Re turn Air En thalpy. 4. Fac tory in stalled re sis tor should be re moved only if C7400 Dif fer en tial En thalpy Sen sor is added. 5. Y2 must be en er gized for the com pres sor to op er ate.	Modulating Economizer Model# AEM02FB0A	
	INT’L COMFORT PRODUCTS 1136 HEIL-QUAKER BOULEVARD POST OFFICE BOX 3005 LAVERGNE, TENNESSEE 37086-1985 (615) 793-0450 FAX (615) 793-0493	Date: No vem ber 20, 1998
		Supercedes:
		Drawn by:
		Unit # 45- 364- 08
		Dia gram# 36408W

MATERIALSLIST		
QTY.	RSI PART#	DESCRIPTION
18"	303000	Wire 18 Ga. Red
162"	303001	Wire 18 Ga. Green
36"	303002	Wire 18 Ga. Violet
276"	303003	Wire 18 Ga. Yel low
58"	303004	Wire 18 Ga. Black
180"	303005	Wire 18 Ga. White
198"	303006	Wire 18 Ga. Blue
144"	303007	Wire 18 Ga. Or ange
122"	303008	Wire 18 Ga. Gray
22"	303009	Wire 18 Ga. Pink
144"	303010	Wire 18 Ga. Brown
6"	303080	½ Split Tubing
1	303140	C7400A1004 En thalpy Control
1	303300	M8405A1006 #3/HW Mo tor
1	303302	T6031H1004 Mixed Air Sen sor
1	303303	W7459C1007 Logic Mod ule
1	303399	Re lay - 24v DPDT
1	303510	TB- 11 Terminal Board
5	303596	¼ Fe male Quick Disc. Insul
1	303597	¼ Male Quick Disc. Insul
2	303604	Male ¼ Push On Adap tor
26	303605	Fe male ¼ Quick Disc.
2	303606	STUD #6 18 Ga. Wire
1	303614	¼ Piggy Back
10	303620	Wire Ties 3 ¾" L
9	303901	AMP Pin Con tact Male
9	303902	AMP Socket Con tact Female
1	303903	AMP 9 Cir Plug Con nec tor Male
1	303904	AMP 9 Cir Cap Con nec tor Fe male
1	303909	AMP 2 Cir Cap Con nec tor Fe male
1	303910	AMP 2 Cir Plug Con nec tor Male
1	303914	AMP 6 Cir Cap Con nec tor Fe male
1	303915	AMP 6 Cir Plug Con nec tor Male

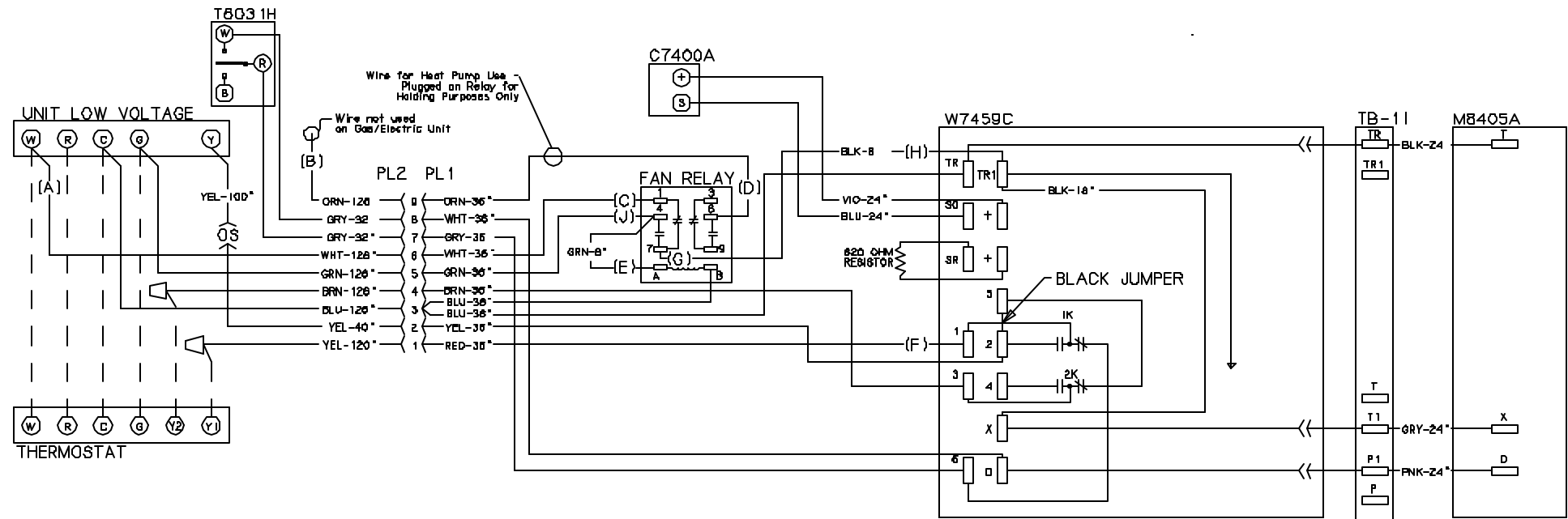
HARNESS DETAIL		COMPONENT CODE				WIRE COLOR CODE			
E# = WIRE END DESIGNATION		Economizer							
E2	STUD #6 18 Ga. Wire	C7400	Fresh Air Sensor	W7459C	Logic Module	BLK	Black	BLU	Blue
E3	Female ¼ Quick Disc.	PL1	Economizer Plug (Male)	T6031H	Mixed Air Sensor	BRN	Brown	GRN	Green
E4	Male ¼ Quick Disc. Insul	PL2	Economizer Plug (Female)	M8405A	Damper Actuator 24v	GRY	Gray	ORN	Orange
E6	Wire Nut	EP1	Fresh Air Sensor Plug (Male)			PNK	Pink	RED	Red
		EP2	Fresh Air Sensor Plug (Female)			VIO	Violet	WHT	White
		MP1	Motor Plug (Male)			YEL	Yellow		
		MP2	Motor Plug (Female)						
		TB-11	Terminal Board						



Notes: 1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring. 2. Relays 1K and 2K activate when the Outdoor Air Enthalpy is higher than the Return Air Enthalpy. 3. Factory in stalled resistor should be removed only if C7400 Differential Enthalpy Sensor is added. 4. Y2 must be energized for the compressor to operate.	3-Position Economizer Model# AEP02FB0A	
	INT'L COMFORT PRODUCTS 1136 HEIL-QUAKER BOULEVARD POST OFFICE BOX 3005 LAVERGNE, TENNESSEE 37086-1985 (615) 793-0450 FAX (615) 793-0493	Date: November 20, 1998
		Drawn by:
		Unit# 45-365-08
		Diagram# 36508W

MATERIALSLIST		
QTY.	RSI PART#	DESCRIPTION
36"	303000	Wire 18 Ga. Red
170"	303001	Wire 18 Ga. Green
24"	303002	Wire 18 Ga. Violet
296"	303003	Wire 18 Ga. Yel low
32"	303004	Wire 18 Ga. Black
198"	303005	Wire 18 Ga. White
222"	303006	Wire 18 Ga. Blue
162"	303007	Wire 18 Ga. Or ange
124"	303008	Wire 18 Ga. Gray
24"	303009	Wire 18 Ga. Pink
162"	303010	Wire 18 Ga. Brown
6"	303080	½ Split Tubing
1	303140	C7400A1004 En thalpy Con trol
1	303300	M8405A1006 #3/HW Mo tor
1	303302	T6031H1004 Mixed Air Sen sor
1	303303	W7459C1007 Logic Mod ule
1	303399	Re lay - 24v DPDT
1	303510	TB-11 Terminal Board
5	303596	✓ Fe male Quick Disc. Insul
1	303597	✓ Male Quick Disc. Insul
2	303604	Male ✓ Push On Adap tor
26	303605	Fe male ✓ Quick Disc.
2	303606	STUD #6 18 Ga. Wire
1	303614	✓ Piggy Back
10	303620	Wire Ties 3 ✓" L
9	303901	AMP Pin Con tact Male
9	303902	AMP Socket Con tact Female
1	303903	AMP 9 Cir Plug Con nec tor Male
1	303904	AMP 9 Cir Cap Con nec tor Fe male

HARNESS DETAIL		COMPONENT CODE		WIRE COLOR CODE			
E# = WIRE END DESIGNATION		Economizer					
E2	STUD #6 18 Ga. Wire	C7400	Fresh Air Sensor	BLK	Black	BLU	Blue
E3	Female ¼ Quick Disc.	PL1	Economizer Plug (Male)	BRN	Brown	GRN	Green
E4	Male ¼ Quick Disc. Insul	PL2	Economizer Plug (Female)	GRY	Gray	ORN	Orange
E6	Wire Nut	M8405A	Damper Actuator 24v	PNK	Pink	RED	Red
		W7459C	Logic Module	VIO	Violet	WHT	White
		T6031H	Mixed Air Sensor	YEL	Yellow		
		TB-11	Terminal Board				



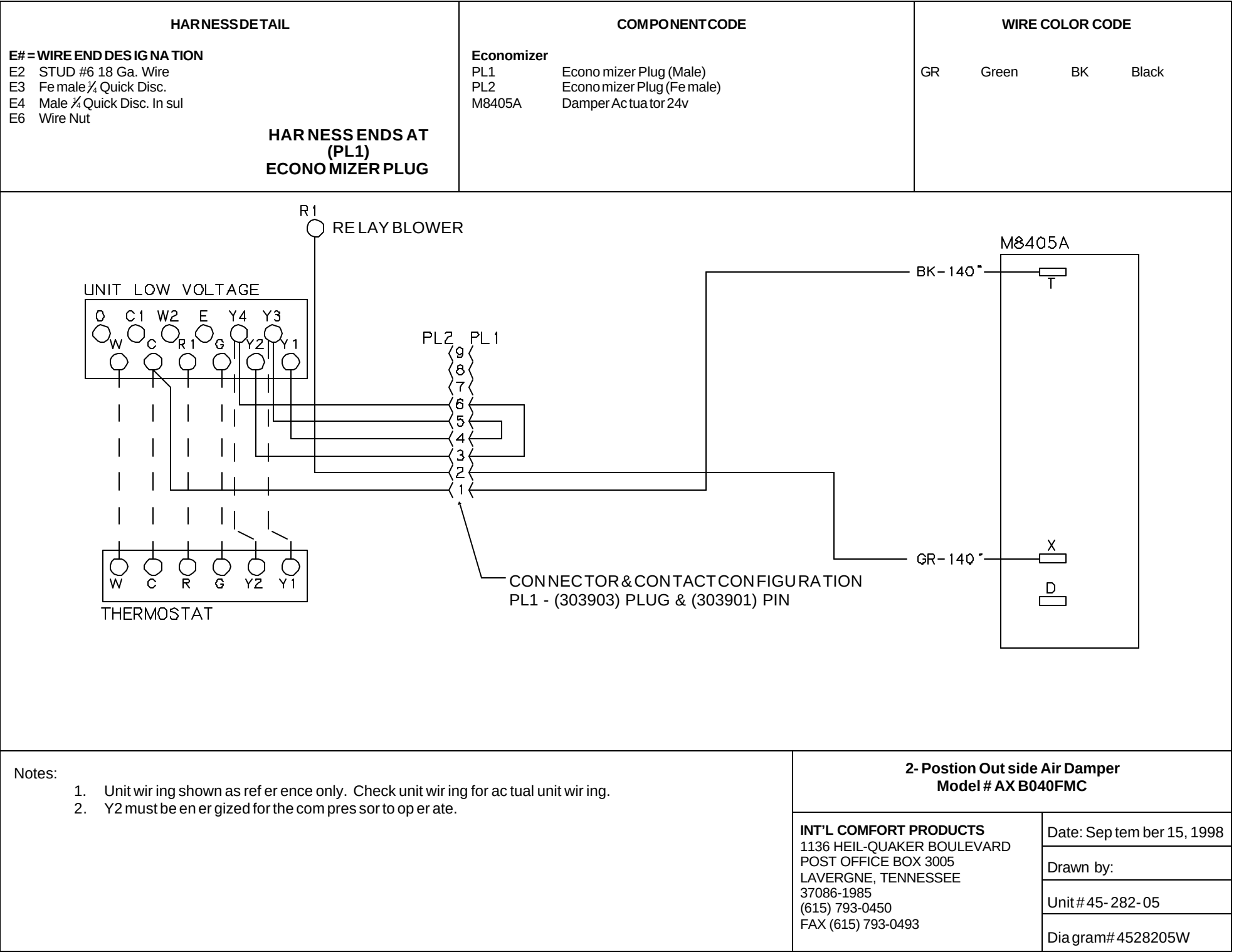
CONNECTOR & CONTACT CONFIGURATION
PL2 - (303904) CAP & (303902) SOCKET
PL1 - (303903) PLUG & (303901) PIN

NOTE:

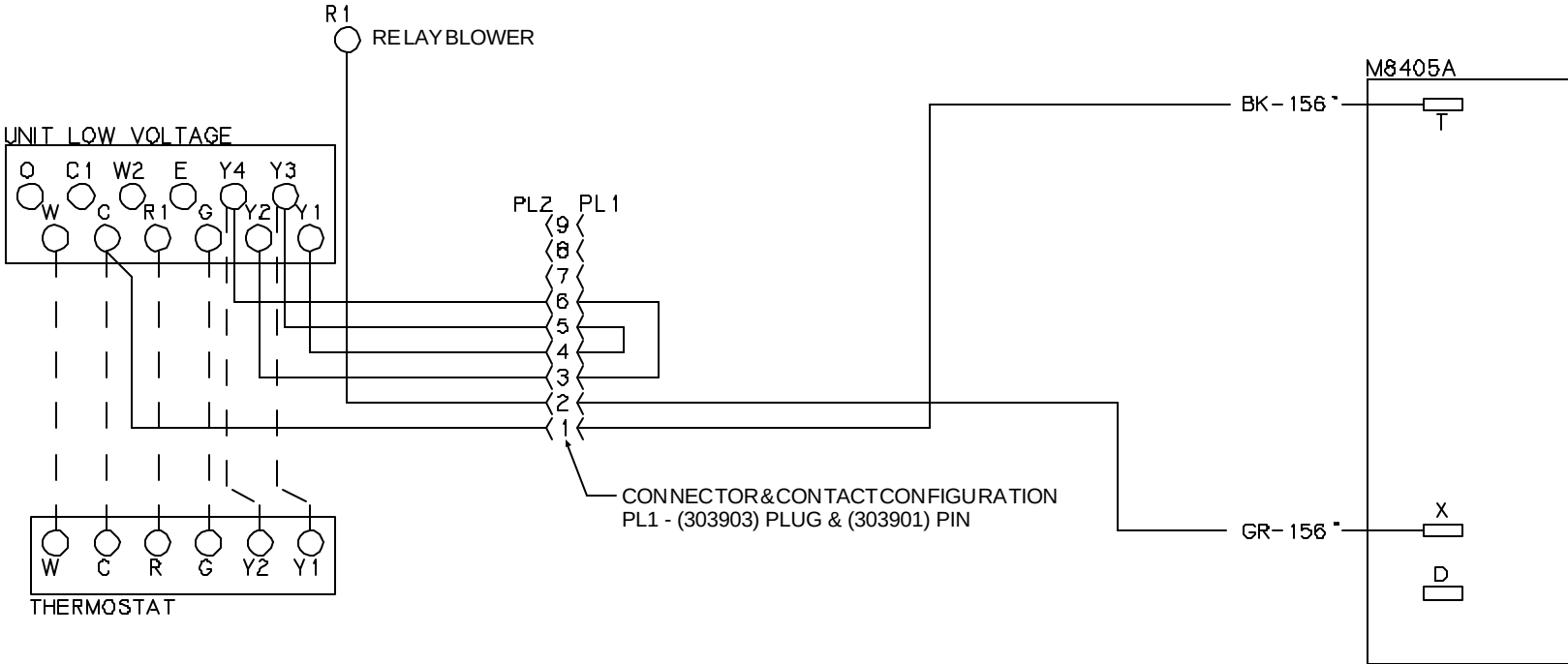
1. ON BLACK JUMPER (303614) PIGGY BACK MUST BE ON #5 ON W7459C.
2. ON #4 ON RELAY AND #2 ON W7459C MUST HAVE A (303604) ¼ MALE PUSH.

Notes: 1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring. 2. Relays 1K and 2K activate when the Outdoor Air Entropy is higher than the Return Air Entropy. 3. Factory in stalled resistor should be removed only if C7400 Differential Entropy Sensor is added. 4. Y2 must be energized for the compressor to operate.	Modulating Economizer Model# AHP01/02FB0A	
	INT'L COMFORT PRODUCTS 1136 HEIL-QUAKER BOULEVARD POST OFFICE BOX 3005 LAVERGNE, TENNESSEE 37086-1985 (615) 793-0450 FAX (615) 793-0493	Date: November 20, 1998
		Drawn by:
		Unit# 45- 395- 08/09
		Diagram# 39509W

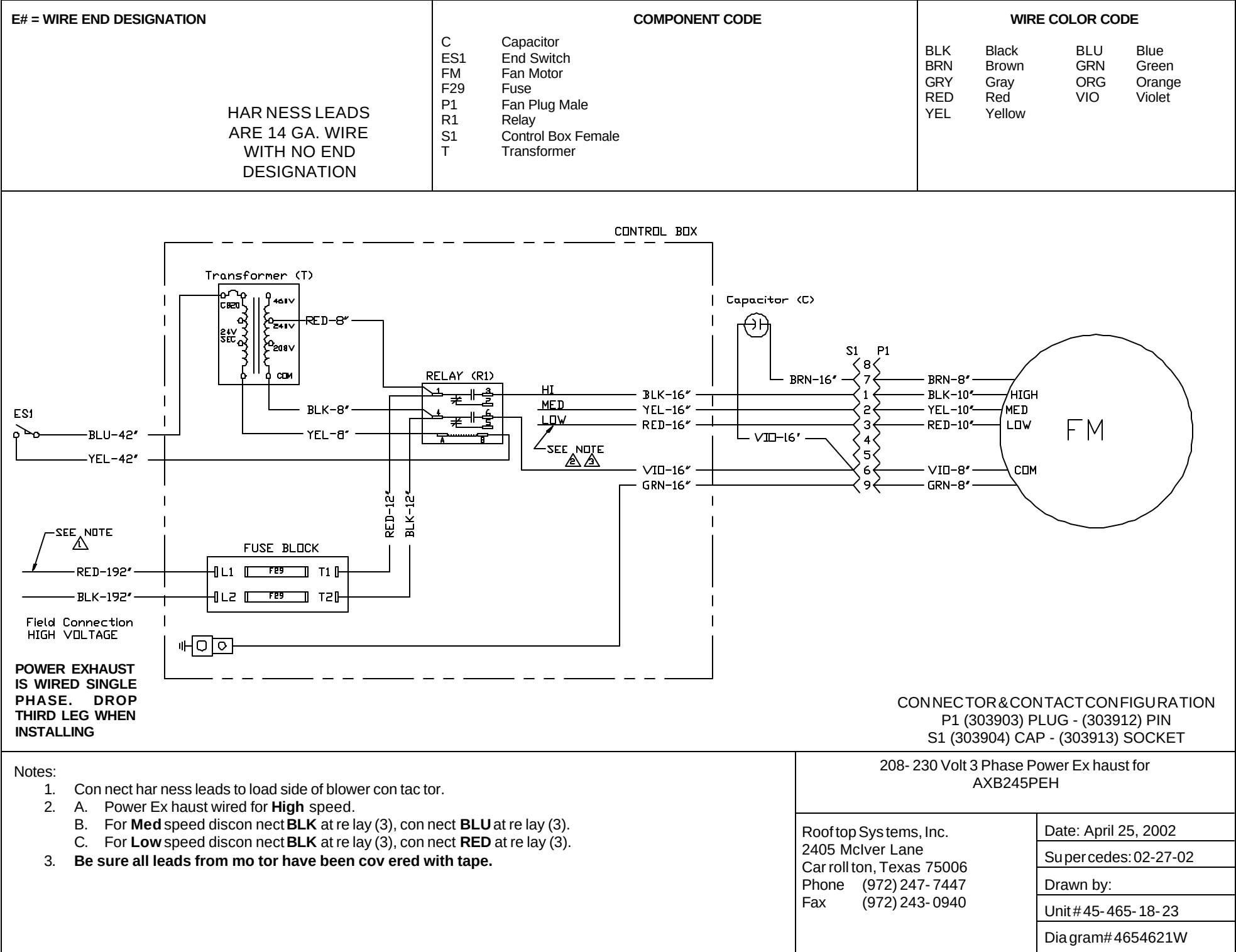
MATERIALSLIST		
QTY.	RSI PART#	DESCRIPTION
140"	303001	Wire 18 Ga. Green
140"	303004	Wire 18 Ga. Black
1	303300	M8405A1006 #3/HW Mo tor
2	303605	Fe male 3/4 Quick Disc.
10	303620	Wire Ties 3/4" L
6	303901	AMP Pin Con tact Male
1	303903	AMP 9 Cir Plug Con nec tor Male



MATERIALSLIST		
QTY.	RSI PART#	DESCRIPTION
156"	303001	Wire 18 Ga. Green
156"	303004	Wire 18 Ga. Black
1	303300	M8405A1006 #3/HW Mo tor
2	303605	Fe male ¼ Quick Disc.
10	303620	Wire Ties 3 7/8" L
6	303901	AMP Pin Con tact Male
1	303903	AMP 9 Cir Plug Con nec tor Male

HARNESSDETAIL		COMPONENTCODE		WIRE COLOR CODE			
E# = WIRE END DES IG NA TION E2 STUD #6 18 Ga. Wire E3 Fe male¼ Quick Disc. E4 Male ¼ Quick Disc. In sul E6 Wire Nut		Economizer PL1 Econo mizer Plug (Male) PL2 Econo mizer Plug (Fe male) M8405A Damper Actua tor 24v		GR	Green	BK	Black
HAR NESS ENDS AT (PL1) ECONOMIZER PLUG							
							
Notes: 1. Unit wir ing shown as ref er ence only. Check unit wir ing for ac tual unit wir ing. 2. Y2 must be en er gized for the com pres sor to op er ate.				2- Postion Out side Air Damper Model # AX B050FMC			
				INT'L COMFORT PRODUCTS 1136 HEIL-QUAKER BOULEVARD POST OFFICE BOX 3005 LAVERGNE, TENNESSEE 37086-1985 (615) 793-0450 FAX (615) 793-0493			Date: Sep tem ber 15, 1998
							Drawn by:
							Unit# 45- 282- 06
							Dia gram# 4528206W

MATERIALSLIST		
QTY.	RSI PART#	DESCRIPTION
24"	303000	Wire Red
16"	303001	Wire Green
32"	303002	Wire Violet
66"	303003	Wire Yellow
24"	303004	Wire Black
42"	303006	Wire Blue
16"	303010	Wire Brown
204"	303050	Wire Black
204"	303051	Wire Red
1'	303090	Tape - Electrical
1	303370	Fuse Holder
2	303377	Fuse 10 AMP
1	303400	Relay - 24 Volt 20 AMP
1	303412	Capacitor - 12.5 MFD
1	303413	Capacitor - Rubber Boot
1	303414	Capacitor - Strap (Metal)
1	303421	Transformer
1	303450	Belly Mount - 20" / 5.5 DIA.
1	303465	Fan Blade - Y12E07- 2040 x 1/2 CW
1	303480	Auxiliary Switch Kit (H/W)
6	303596	Female 1/4" Quick Disc. Insul (Red)
1	303598	Ring Grd.
2	303602	Female 1/4" Quick Disc. Insul (Blue)
6	303605	Female 1/4" Quick Disc. (Red)
2	303606	Spade - 18 Ga. Wire
2	303613	Spade - 16/14 Ga. Wire
2	303614	Female 1/4" Quick Disc. (Piggy Back)
10	303620	Wire Ties - 3 3/4 "L
1	303677	Motor - 3/4 HP 1075 RPM
1	303903	AMP 9 Cir Plug Conn. Male
1	303904	AMP 9 Cir Cap Conn. Female
6	303912	AMP Pin Contact Male
6	303913	AMP Socket Contact Female



MATERIALSLIST		
QTY.	RSI PART#	DESCRIPTION
24"	303000	Wire Red
16"	303001	Wire Green
32"	303002	Wire Violet
66"	303003	Wire Yellow
24"	303004	Wire Black
42"	303006	Wire Blue
16"	303010	Wire Brown
204"	303050	Wire Black
204"	303051	Wire Red
1'	303090	Tape - Electrical
1	303370	Fuse Holder
2	303379	Fuse 5 AMP
1	303400	Relay - 24 Volt 20 AMP
1	303412	Capacitor - 12.5 MFD
1	303413	Capacitor - Rubber Boot
1	303414	Capacitor - Strap (Metal)
1	303421	Transformer
1	303450	Belly Mount - 20" / 5.5 DIA.
1	303465	Fan Blade - Y12E07- 2040 x 1/2 CW
1	303480	Auxiliary Switch Kit (H/W)
6	303596	Female 1/4" Quick Disc. Insul (Red)
1	303598	Ring Grd.
2	303602	Female 1/4" Quick Disc. Insul (Blue)
6	303605	Female 1/4" Quick Disc. (Red)
2	303606	Spade - 18 Ga. Wire
2	303613	Spade - 16/14 Ga. Wire
2	303614	Female 1/4" Quick Disc. (Piggy Back)
10	303620	Wire Ties - 3 3/4 "L
1	303694	Motor - 3/4 HP 1050 RPM
1	303903	AMP 9 Cir Plug Conn. Male
1	303904	AMP 9 Cir Cap Conn. Female
8	303912	AMP Pin Contact Male
6	303913	AMP Socket Contact Female

E# = WIRE END DESIGNATION

HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION

COMPONENT CODE

C Capacitor
ES1 End Switch
FM Fan Motor
F29 Fuse
P1 Fan Plug Male
R1 Relay
S1 Control Box Female
T Transformer

WIRE COLOR CODE

BLK Black BLU Blue
BRN Brown GRN Green
GRY Gray ORG Orange
RED Red VIO Violet
YEL Yellow

Transformer (T)

24V SEC

461V

241V

208V

COM

RELAY (R1)

HI

MED

LOW

SEE NOTE

FUSE BLOCK

L1 F29 T1

L2 F29 T2

Field Connection HIGH VOLTAGE

CONTROL BOX

Capacitor (C)

S1 P1

BRN-16"

VIO-16"

GRN-16"

RED-8"

BLK-10"

YEL-10"

RED-10"

BLU-8"

ORG-8"

VIO-8"

GRN-8"

FM

HIGH

MED

LOW

COM

POWER EXHAUST IS WIRED SINGLE PHASE. DROP THIRD LEG WHEN INSTALLING

CONNECTOR & CONTACT CONFIGURATION
P1 (303903) PLUG - (303912) PIN
S1 (303904) CAP - (303913) SOCKET

Notes:

1. Connect harness leads to load side of blower connector.

A. Power Exhaust wired for **High** speed.

B. For **Med** speed disconnect **BLK** at relay (3), connect **BLU** at relay (3).

C. For **Low** speed disconnect **BLK** at relay (3), connect **RED** at relay (3).

3. Be sure all leads from motor have been covered with tape.

460 Volt 3 Phase Power Exhaust for AXB245PEL

Roof top Systems, Inc.
2405 McIver Lane
Carrollton, Texas 75006
Phone (972) 247-7447
Fax (972) 243-0940

Date: April 25, 2002

Supersedes: 02-27-02

Drawn by:

Unit # 45-465-18-33

Diagram# 4654631W

MATERIALS LIST		
QTY.	RSI PART#	DESCRIPTION
24"	303000	Wire Red
16"	303001	Wire Green
32"	303002	Wire Violet
66"	303003	Wire Yellow
24"	303004	Wire Black
42"	303006	Wire Blue
16"	303010	Wire Brown
204"	303050	Wire Black
204"	303051	Wire Red
1'	303090	Tape - Electrical
1	303370	Fuse Holder
2	303388	Fuse 3 AMP
1	303400	Relay - 24 Volt 20 AMP
1	303412	Capacitor - 12.5 MFD
1	303413	Capacitor - Rubber Boot
1	303414	Capacitor - Strap (Metal)
1	303423	Transformer
1	303450	Belly Mount - 20" / 5.5 DIA.
1	303465	Fan Blade - Y12E07- 2040 x 1/2 CW
6	303596	Female 1/4" Quick Disc. Insul (Red)
1	303598	Ring Grd.
2	303602	Female 1/4" Quick Disc. Insul (Blue)
6	303605	Female 1/4" Quick Disc. (Red)
2	303606	Spade - 18 Ga. Wire
2	303613	Spade - 16/14 Ga. Wire
2	303614	Female 1/4" Quick Disc. (Piggy Back)
10	303620	Wire Ties - 3 3/4 "L
1	303690	Motor - 3/4 HP 1050 RPM
1	303903	AMP 9 Cir Plug Conn. Male
1	303904	AMP 9 Cir Cap Conn. Female
8	303912	AMP Pin Contact Male
6	303913	AMP Socket Contact Female

E# = WIRE END DESIGNATION

HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION

COMPONENT CODE

C Capacitor
ES1 End Switch
FM Fan Motor
F29 Fuse
P1 Fan Plug Male
R1 Relay
S1 Control Box Female
T Transformer

WIRE COLOR CODE

BLK Black BLU Blue
BRN Brown GRN Green
GRY Gray ORG Orange
RED Red VIO Violet
YEL Yellow

Transformer (T)

RELAY (R1)

FUSE BLOCK

Capacitor (C)

FM

Field Connection HIGH VOLTAGE

SEE NOTE

SEE NOTE

575 Volt 3 Phase Power Exhaust for AXB245PES

Roof top Systems, Inc.
2405 McIver Lane
Carrollton, Texas 75006
Phone (972) 247- 7447
Fax (972) 243- 0940

Date: April 25, 2002
Supersedes: 02-27-02
Drawn by:
Unit # 45- 465-18- 43
Diagram# 4654641W

Notes:

1. Connect harness leads to load side of blower connector.

A. Power Exhaust wired for **High** speed.

B. For **Med** speed disconnect **BLK** at relay (3), connect **BLU** at relay (3).

C. For **Low** speed disconnect **BLK** at relay (3), connect **RED** at relay (3).

3. Be sure all leads from motor have been covered with tape.

MATERIALSLIST		
QTY.	RSI PART#	DESCRIPTION
6"	303003	Wire Yellow
120"	303004	Wire Black
120"	303010	Wire Brown
1	303300	#3/HW Mo tor
2	303605	Fe male ¼" Quick Disc. 18 Ga. Wire
5	303620	Wire Ties ¾" L
6	303925	Mo lex Male Pin
1	303930	Mo lex 12 Cir Male Plug

HARNESS DETAIL		COMPONENT CODE		WIRE COLOR CODE			
E# = WIRE END DESIGNATION E2 STUD #6 18 Ga. Wire E3 Female ¼ Quick Disc. E4 Male ¼ Quick Disc. Insul E6 Wire Nut Size 73B HARNESS ENDS AT PL1-R		Economizer M8405A Damper Actuator 24v		BLK	Black	BRN	Brown
				YEL	Yellow		
A/C UNIT W2 W1 G C Y2 Y1 X R W2 W1 G C Y2 Y1 X R THERMOSTAT 12 11 10 9 8 7 6 5 4 3 2 1 PL1 PL1-R PINK BLUE BLACK WHITE YELLOW BROWN BLK-120 YEL-3 YEL-3* BRN-120* JUMPER WIRING CONNECTOR & CONTACT CONNECTION PL1-R (303930) PLUG - (303925) PIN M8405A T X D							
Notes: 1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring.				0- 35% Motor ized Damper AXB060FMA			
				Roof top Sys tems, Inc. 2405 Mclver Lane Car roll ton, Texas 75006 Phone (972) 247- 7447 Fax (972) 243- 0940		Date: March 5, 2002	
						Supercedes:	
						Drawn by:	
						Unit # 45- 287-19	
				Diagram# 28719W			

MATERIALSLIST		
QTY.	RSI PART#	DESCRIPTION
60"	303000	Wire Red
52"	303001	Wire Green
104"	303002	Wire Violet
110"	303003	Wire Yellow
60"	303004	Wire Black
84"	303006	Wire Blue
42"	303007	Wire Orange
52"	303010	Wire Brown
222"	303050	Wire Black
222"	303051	Wire Red
1'	303090	Tape - Electrical
1	303371	Fuse Holder
3	303378	Fuse 15 AMP
2	303400	Relay - 24 Volt 20 AMP
2	303412	Capacitor - 12.5 MFD
2	303413	Capacitor - Rubber Boot
2	303414	Capacitor - Strap (Metal)
1	303421	Transformer
2	303450	Belly Mount - 20" / 5.5 DIA.
2	303465	Fan Blade - Y12E07- 2040 x 1/2 CW
2	303480	Auxiliary Switch Kit (H/W)
12	303596	Female 1/4" Quick Disc. Insul (Red)
2	303598	Ring Grd.
4	303602	Female 1/4" Quick Disc. Insul (Blue)
11	303605	Female 1/4" Quick Disc. (Red)
4	303606	Spade - 18 Ga. Wire
4	303613	Spade - 16/14 Ga. Wire
3	303614	Female 1/4" Quick Disc. (Piggy Back)
10	303620	Wire Ties - 3 3/4 "L
2	303677	Motor - 3/4 HP 1075 RPM
2	303903	AMP 9 Cir Plug Conn. Male
2	303904	AMP 9 Cir Cap Conn. Fe male
12	303912	AMP Pin Contact Male
12	303913	AMP Socket Contact Fe male

E# = WIRE END DESIGNATION

HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION

COMPONENT CODE

C	Capacitor
ES1 & ES2	End Switch
FM	Fan Motor
F29	Fuse
P1 & P2	Fan Plug Male
R1 & R2	Relay
S1 & S2	Control Box Female
T	Transformer

WIRE COLOR CODE

BLK	Black	BLU	Blue
BRN	Brown	GRN	Green
GRY	Gray	ORG	Orange
RED	Red	VIO	Violet
YEL	Yellow		

CONNECTOR & CONTACT CONFIGURATION
P1 (303903) PLUG - (303912) PIN
S1 (303904) CAP - (303913) SOCKET

Notes:

1. Connect harness leads to load side of blower connector.

2. A. Power Exhaust wired for **High** speed.
B. For **Med** speed disconnect **BLK** at relay (3), connect **BLU** at relay (3).
C. For **Low** speed disconnect **BLK** at relay (3), connect **RED** at relay (3).

3. **Be sure all leads from motor have been covered with tape.**

208- 230 Volt 3 Phase Power Exhaust for AXB060PEH

Roof top Systems, Inc.
2405 McIver Lane
Carrollton, Texas 75006
Phone (972) 247- 7447
Fax (972) 243- 0940

Date: April 29, 2002

Supersedes: 02-27-02

Drawn by:

Unit # 45- 465- 19- 23

Diagram# 4651023W

MATERIALSLIST		
QTY.	RSI PART#	DESCRIPTION
60"	303000	Wire Red
52"	303001	Wire Green
104"	303002	Wire Violet
110"	303003	Wire Yellow
60"	303004	Wire Black
84"	303006	Wire Blue
42"	303007	Wire Orange
52"	303010	Wire Brown
222"	303050	Wire Black
222"	303051	Wire Red
1'	303090	Tape - Electrical
1	303371	Fuse Holder
3	303384	Fuse 7 AMP
2	303400	Relay - 24 Volt 20 AMP
2	303412	Capacitor - 12.5 MFD
2	303413	Capacitor - Rubber Boot
2	303414	Capacitor - Strap (Metal)
1	303421	Transformer
2	303450	Belly Mount - 20" / 5.5 DIA.
2	303465	Fan Blade - Y12E07- 2040 x 1/2 CW
2	303480	Auxiliary Switch Kit (H/W)
12	303596	Female 1/4" Quick Disc. Insul (Red)
2	303598	Ring Grd.
4	303602	Female 1/4" Quick Disc. Insul (Blue)
4	303603	Male 1/4" Quick Disc. (Insul)
11	303605	Female 1/4" Quick Disc. (Red)
4	303606	Spade - 18 Ga. Wire
4	303613	Spade - 16/14 Ga. Wire
3	303614	Female 1/4" Quick Disc. (Piggy Back)
10	303620	Wire Ties - 3 3/4 "L
2	303694	Motor - 3/4 HP 1050 RPM
2	303903	AMP 9 Cir Plug Conn. Male
2	303904	AMP 9 Cir Cap Conn. Female
16	303912	AMP Pin Connector Male
16	303913	AMP Socket Connector Female

E# = WIRE END DESIGNATION

HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION

COMPONENT CODE

C	Capacitor
ES1 & ES2	End Switch
FM	Fan Motor
F29	Fuse
P1 & P2	Fan Plug Male
R1 & R2	Relay
S1 & S2	Control Box Female
T	Transformer

WIRE COLOR CODE

BLK	Black	BLU	Blue
BRN	Brown	GRN	Green
GRY	Gray	ORG	Orange
RED	Red	VIO	Violet
YEL	Yellow		

CONNECTOR & CONTACT CONFIGURATION
P1 (303903) PLUG - (303912) PIN
S1 (303904) CAP - (303913) SOCKET

Notes:

1. Connect harness leads to load side of blower connector.

2. A. Power Exhaust wired for **High** speed.
B. For **Med** speed disconnect **BLK** at relay (3), connect **BLU** at relay (3).
C. For **Low** speed disconnect **BLK** at relay (3), connect **RED** at relay (3).

3. **Be sure all leads from motor have been covered with tape.**

460 Volt 3 Phase Power Exhaust for AXB060PEL

Roof top Systems, Inc.
2405 McIver Lane
Carrollton, Texas 75006
Phone (972) 247- 7447
Fax (972) 243- 0940

Date: April 29, 2002

Supersedes: 02-27-02

Drawn by:

Unit # 45- 465- 19- 33

Diagram# 4651033W

MATERIALSLIST		
QTY.	RSI PART#	DESCRIPTION
60"	303000	Wire Red
52"	303001	Wire Green
104"	303002	Wire Violet
110"	303003	Wire Yellow
60"	303004	Wire Black
84"	303006	Wire Blue
42"	303007	Wire Orange
52"	303010	Wire Brown
222"	303050	Wire Black
222"	303051	Wire Red
1'	303090	Tape - Electrical
1	303371	Fuse Holder
3	303379	Fuse 5 AMP
2	303400	Relay - 24 Volt 20 AMP
2	303412	Capacitor - 12.5 MFD
2	303413	Capacitor - Rubber Boot
2	303414	Capacitor - Strap (Metal)
1	303423	Transformer
2	303450	Belly Mount - 20" / 5.5 DIA.
2	303465	Fan Blade - Y12E07- 2040 x 1/2 CW
2	303480	Auxiliary Switch Kit (H/W)
12	303596	Female 1/4" Quick Disc. Insul (Red)
4	303597	Male 1/4" Quick Disc. Insul (Red)
2	303598	Ring Grd.
4	303603	Male 1/4" Quick Disc. (Insul)
11	303605	Female 1/4" Quick Disc. (Red)
4	303606	Spade - 18 Ga. Wire
4	303613	Spade - 16/14 Ga. Wire
10	303620	Wire Ties - 3 3/4 "L
2	303690	Motor - 3/4 HP 1050 RPM
2	303903	AMP 9 Cir Plug Conn. Male
2	303904	AMP 9 Cir Cap Conn. Female
16	303912	AMP Pin Connector Male
16	303913	AMP Socket Connector Female

E# = WIRE END DESIGNATION

HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION

COMPONENT CODE

C Capacitor
ES1 & ES2 End Switch
FM Fan Motor
F29 Fuse
P1 & P2 Fan Plug Male
R1 & R2 Relay
S1 & S2 Control Box Female
T Transformer

WIRE COLOR CODE

BLK Black BLU Blue
BRN Brown GRN Green
GRY Gray ORG Orange
RED Red VIO Violet
YEL Yellow

CONNECTOR & CONTACT CONFIGURATION
P1 (303903) PLUG - (303912) PIN
S1 (303904) CAP - (303913) SOCKET

Notes:

1. Connect harness leads to load side of blower connector.

2. A. Power Exhaust wired for **High** speed.
B. For **Med** speed disconnect **BLK** at relay (3), connect **BLU** at relay (3).
C. For **Low** speed disconnect **BLK** at relay (3), connect **RED** at relay (3).

3. **Be sure all leads from motor have been covered with tape.**

575 Volt 3 Phase Power Exhaust for AXB060PES

Roof top Systems, Inc.
2405 McIver Lane
Carrollton, Texas 75006
Phone (972) 247-7447
Fax (972) 243-0940

Date: April 29, 2002
Supersedes: 02-27-02
Drawn by:
Unit # 45-465-19-43
Diagram # 4651043W