

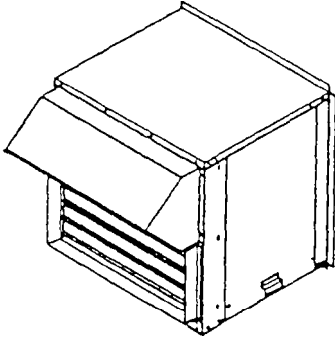
INSTALLATION INSTRUCTIONS

MODEL RXRD / RXRE

HORIZONTAL ECONOMIZER

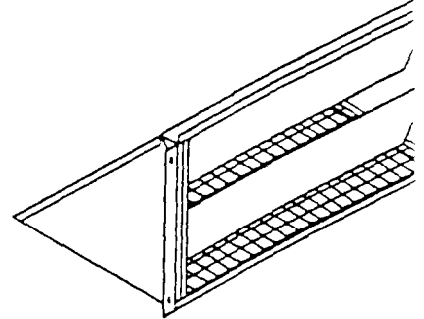
A Recognize this symbol as an indication of important Safety information!

RXRD-CCM 10 / RXRE-CCA30 Economizers are used with RQ*A/RS*A/RR*A 018-042 and RK*A/RJ*A/RL* 036-072 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 w/ Filter
- 1 - Barometric Relief Damper
- 1 - Outdoor Air Hood (Attached to Economizer)
- 1 - Wiring Diagram Sticker
- 2 - Bushing .562 ID to .875 OD (304210)

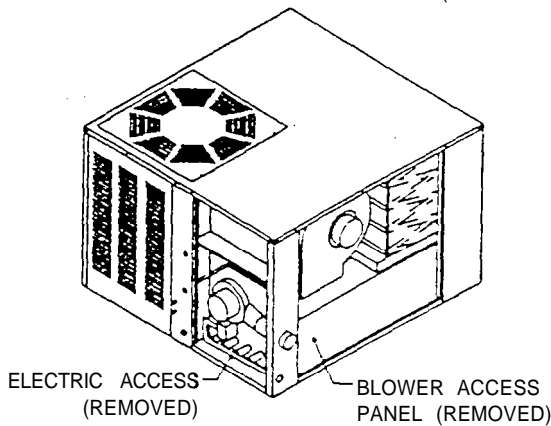
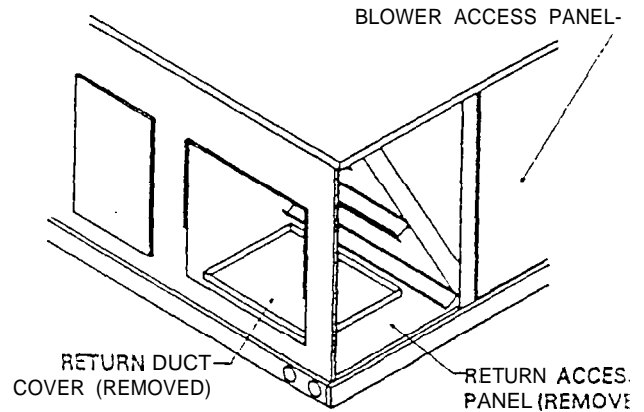
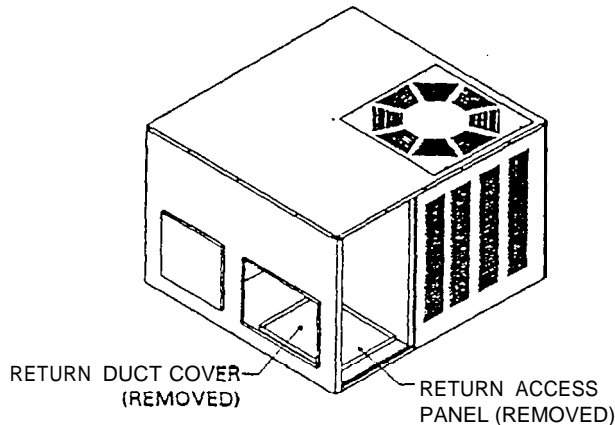


A **WARNING:**
Disconnect electrical power to the unit. Failure to do so can cause electrical shock resulting in person;

R**A 018-042

Figure 2

R**A 036-072



STEP 2:
Remove the return access panel and blower access panel. (See Figure 2.)

STEP 3:
Remove both the horizontal return duct panels. (See Figure 2.)

STEP 2:
Remove the return access panel and the return duct cover. (See Figure 2.)

STEP 3:
Remove the blower access panel and the electrical access panel's.

STEP 4:
Remove the return air access panel. (See Figure 2.)

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STEP 5:
Optional wiring methods.

Method A

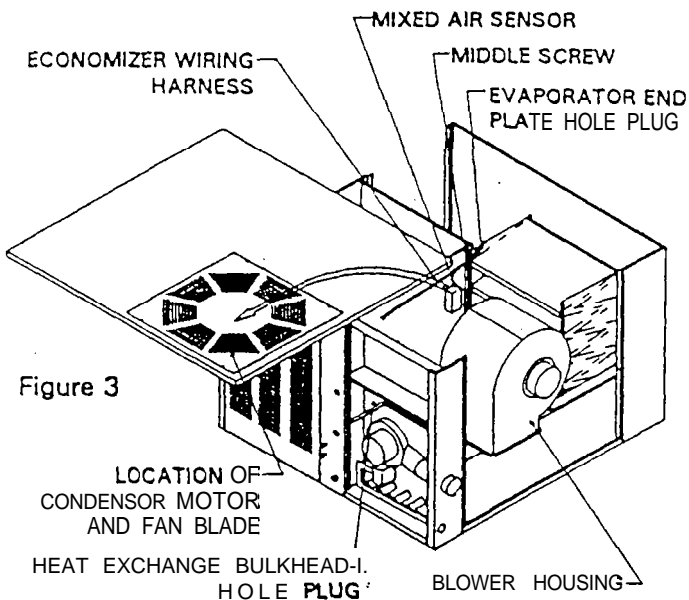


Figure 3

1. Remove all the screws from the perimeter of the top and screw in center of top.
2. Lift up approximately 8' and rotate 90° degrees, then set top down on the unit. 'IMPORTANT DO NOT LET TOP REST ON MOTOR OR FAN BLADE!'
3. Push out hole Plugs from the heat exchanger mounting bulkhead and from the top of the evaporator endplate.
4. Install the mixed air sensor, remove the middle screw from the coil support then place the through hole on the sensor mount and reinstall **screw**. Connect gray wire's to mixed air sensor terminals.
5. Lift and rotate the top back into place and secure with same screws.

Method B

1. Unplug wires from the limit control (Gas Heat Only) and the blower motor.
2. Remove 2 screws securing the blower housing to the blower shelf.
3. Slide the blower out of the unit.
4. Push out hole plugs from the heat exchanger mounting bulkhead and from the top of evaporator endplate.
5. Install the mixed air sensor, remove middle screw from coil support then place through hole on sensor mount and reinstall screw. Connect gray wire's to mixed air sensor terminals.
6. Slide blower back into the unit.
7. Secure blower housing with 2 screws removed earlier.
 - a. Plug wires back onto limit control (Gas Heat Only) and blower motor. Refer to unit wiring diagram for proper wiring connections.

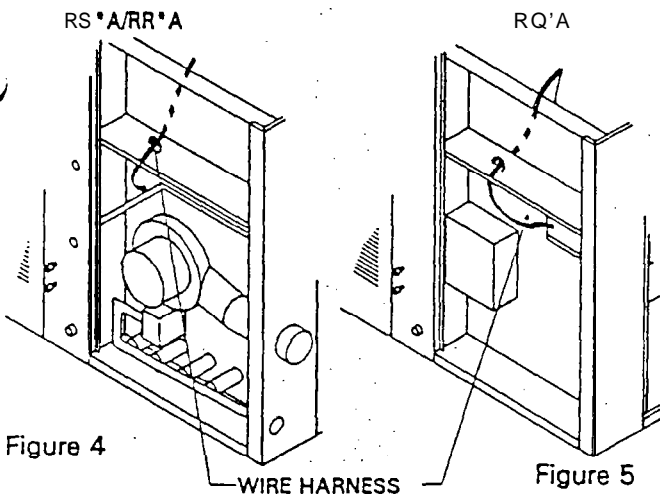


Figure 4

Figure 5

STEP 6:

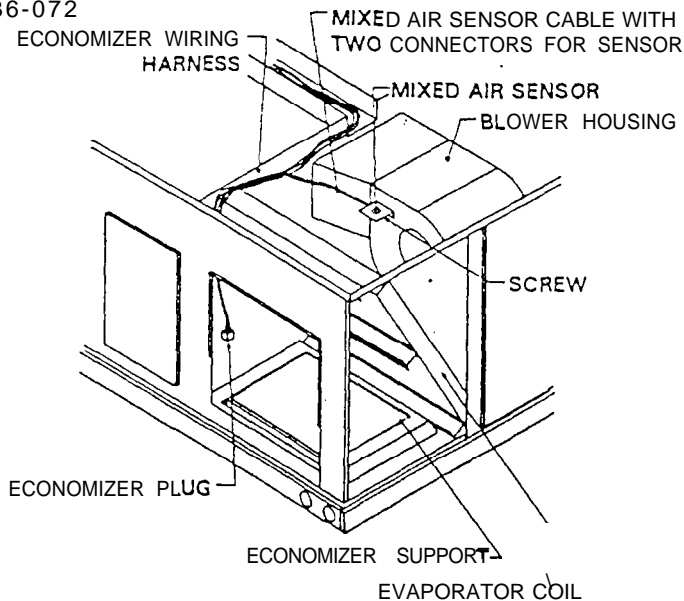
Route wire's through the division wall and into designated **location shown above, then connect as shown in the wiring diagram. Shown on back page. Replace removed panels and secure.**

R**A 036-072

STEP 4:
Remove the receptacle (with jumper) from the unit economizer plug and discard it. Plug the economizer plug into the unit economizer plug provided. Be sure the plugs are rotated correctly for proper mating.

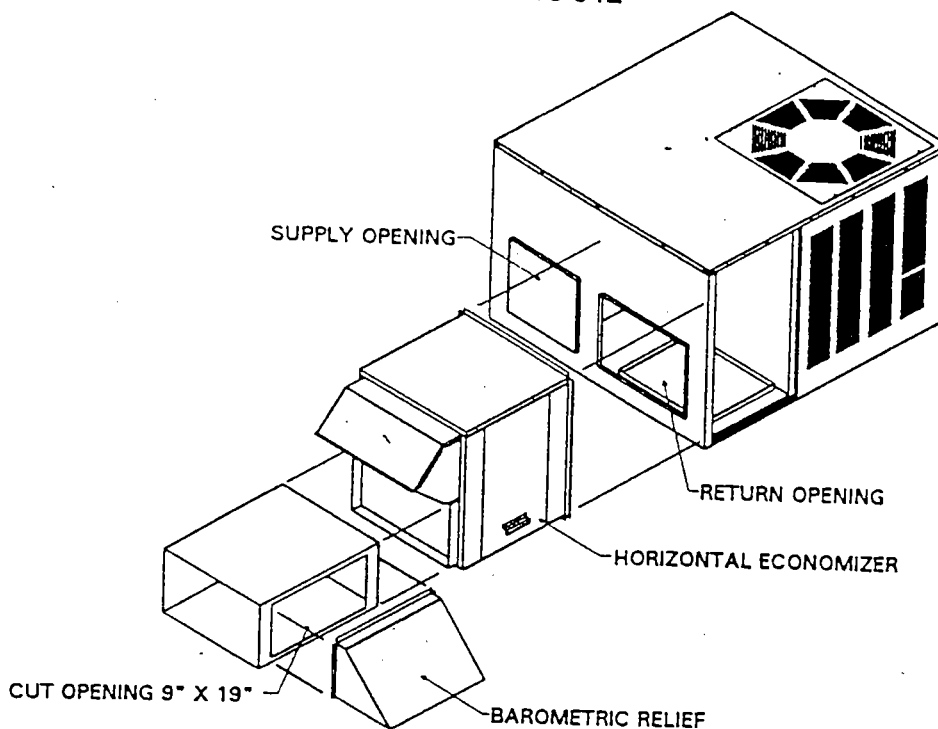
STEP 5:
Mount the mixed air sensor to the blower housing as shown by Figure 3 and connect the two leads from the sensor to the two connectors provided on the pigtails fastened to the wire harness near the blower.

The controls manufacturers literature is included for proper control settings.



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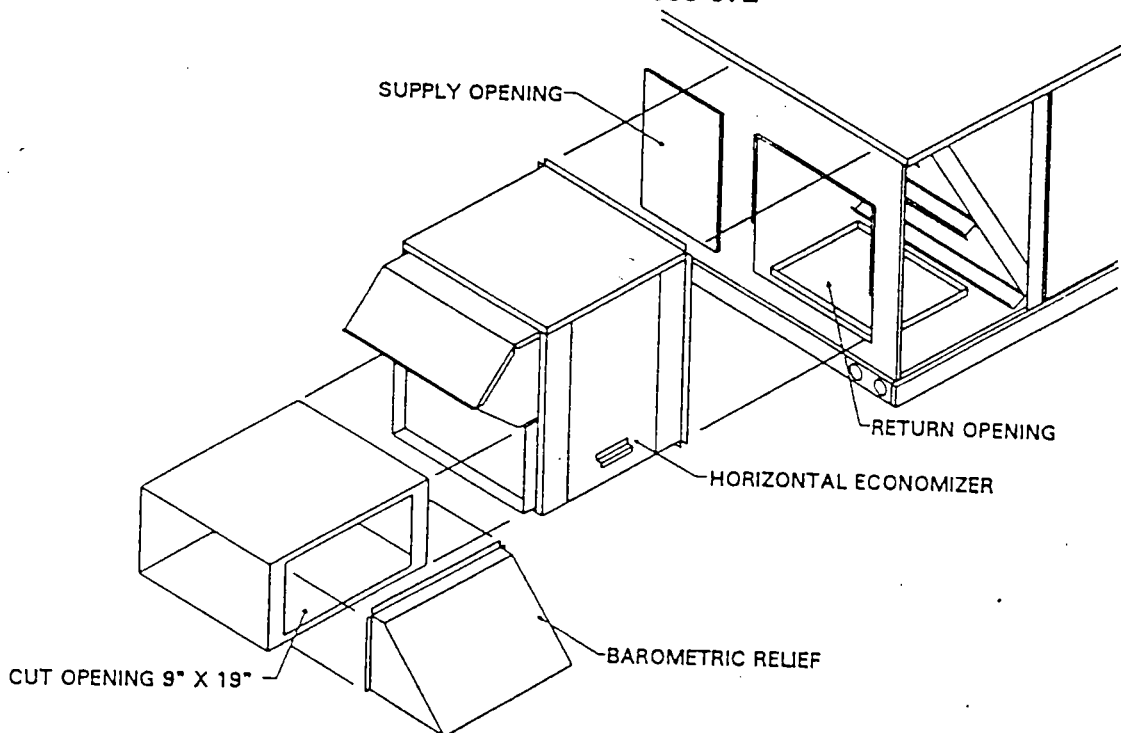
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STEP 7:

Slide the economizer assembly in place and secure with $\frac{1}{2}$ x 10 self tapping screws provided. Connect the plug on the economizer to the plug on the harness. Place all other removed panels including filter access panel

R**A 036-072

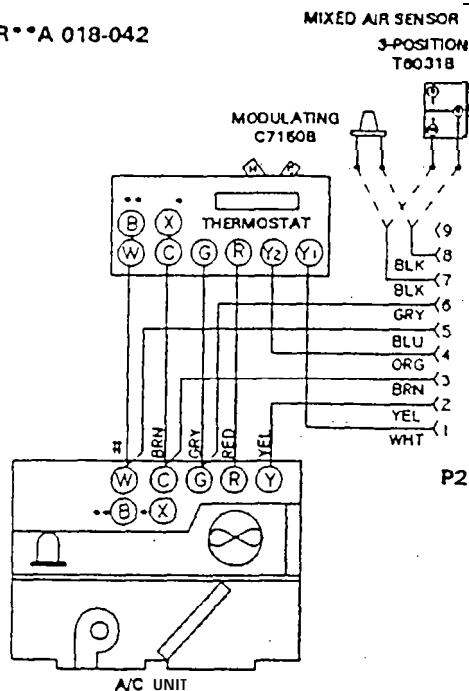


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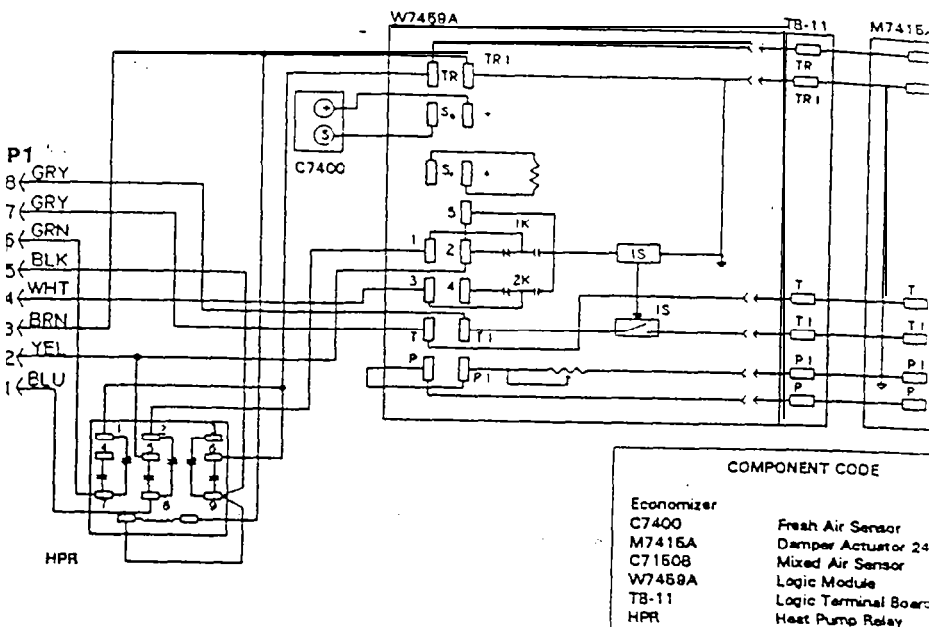
R**A 018-042



NOTE:

- THE "C" TERMINAL IS REPLACED WITH "X" TERMINAL ON HEAT PUMP AND SELF-CONTAINED.
- THE "W" TERMINAL IS REPLACED WITH "B" TERMINAL ON HEAT PUMP.
- UNIT L.V. PIGTAIL "BK/WH" ON A/C UNITS AND "BL" ON HEAT PUMP.

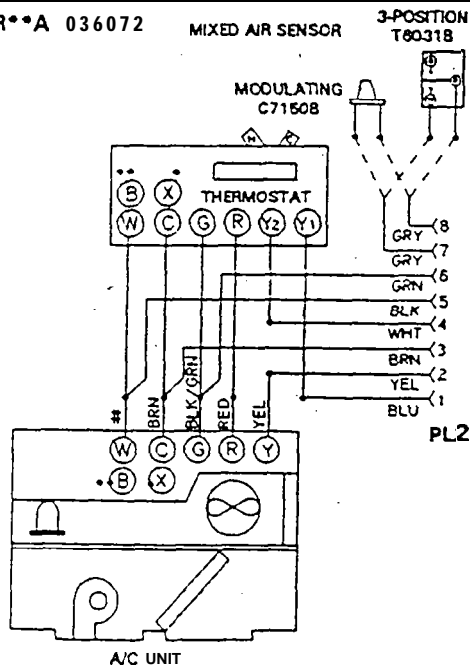
MODULATING CONTROLS SYSTEMS



COMPONENT CODE

Economizer	Fresh Air Sensor
C7400	Damper Actuator 24
M7415A	Mixed Air Sensor
C7150B	Logic Module
W7459A	Logic Terminal Board
TB-11	Heat Pump Relay
HPR	

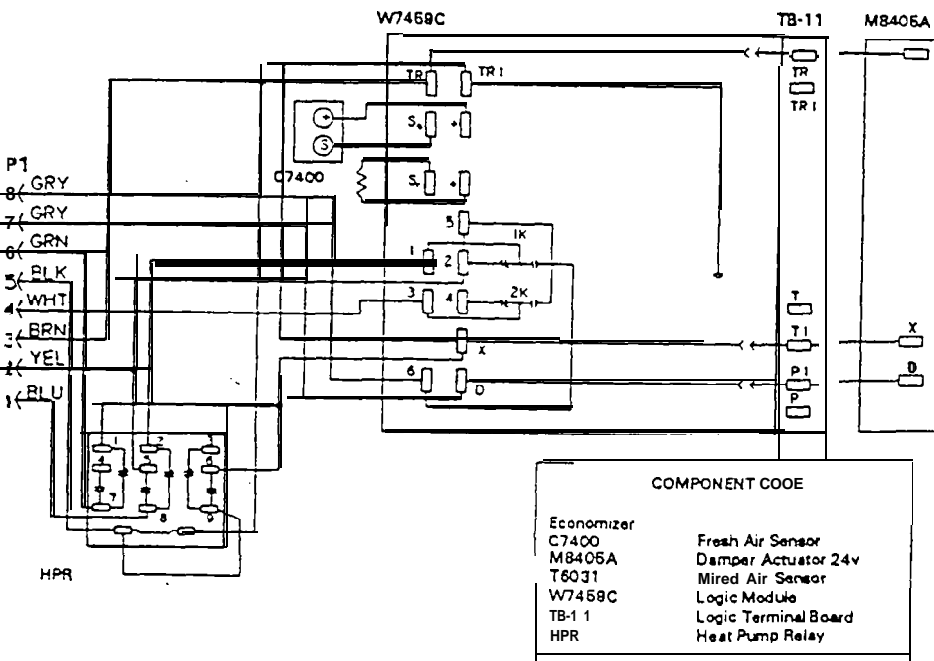
R**A 036072



NOTE:

- THE "C" TERMINAL IS REPLACED WITH "X" TERMINAL ON HEAT PUMP.
- THE "W" TERMINAL IS REPLACED WITH "B" TERMINAL ON HEAT PUMP.
- UNIT L.V. PIGTAIL "BK/WH" ON PACKAGED IS "BK" AND "BL" ON HEAT PUMP.

3-POSITION CONTROLS SYSTEMS



COMPONENT CODE

Economizer	Fresh Air Sensor
C7400	Damper Actuator 24V
M8405A	Mixed Air Sensor
T6031	Logic Module
W7459C	Logic Terminal Board
TB-11	Heat Pump Relay
HPR	

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 input. (Modulating)
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.