

INSTALLATION INSTRUCTION

INSTALLATION INSTRUCTIONS FOR 547841 ECONOMIZERS USED WITH R4GM 072 P6SD, Q6SD, R6GD 024-060 UNITS

FORM# 599A-0808 (599A-0298)

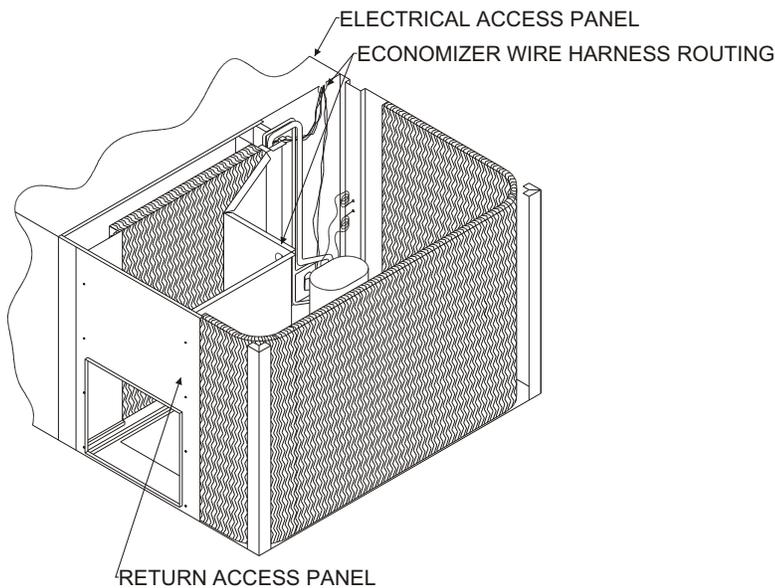
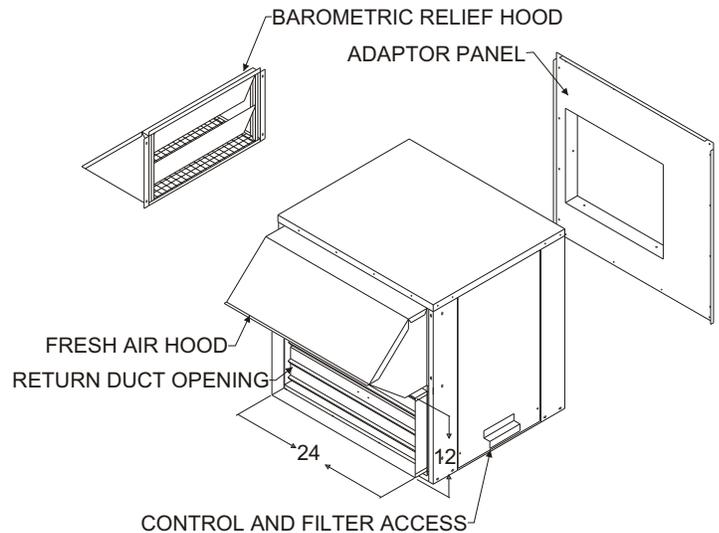
Recognize this symbol as an indication of Important Safety Information!

547841 Economizer is used 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 - Adaptor Panels (Attached to Economizer)
- 1 - Wiring Diagram Sticker
- 1 - Barometric Relief Hood
- 1 - Mixed Air Sensor (MAS)
- 1 - Wire Tie
- 2 - #10 x 16 x 1/2" Self-Tapping Screws
- 10 - #10 x 16 x 1/2" Type A Screws



WARNING:

Disconnect electrical power to the unit. Failure to do so can cause electrical shock resulting in personal injury or death.

Step 2:

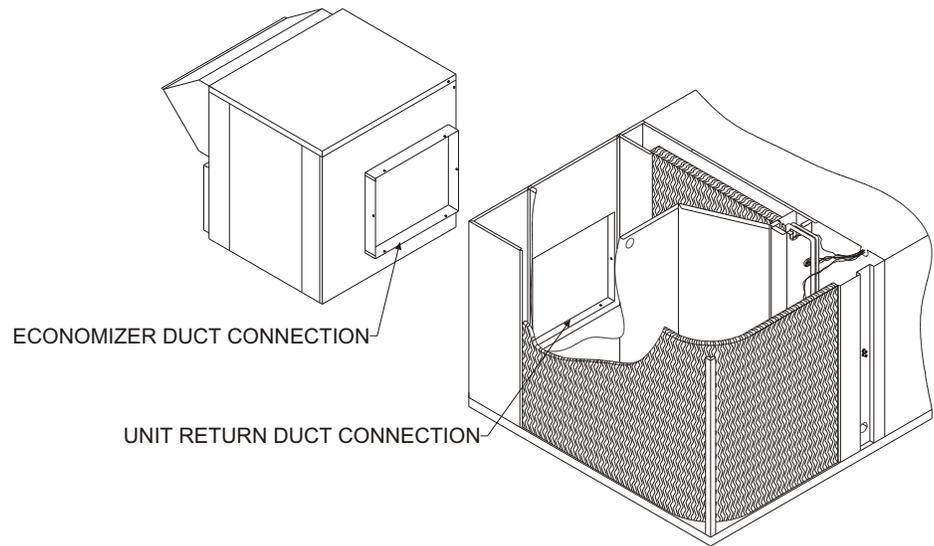
Take the economizer plug and attach to the unit economizer plug located inside the return air section above the duct opening. (Factory jumper plug must first be removed.)

Step 3:

Slide Economizer over horizontal return opening of the unit. Secure Economizer using the screws that were provided.

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Step 4:

Locate the mixed air sensor (MAS) on the blower deck next to the blower intake opening using the self-tapping screw provided. Connect MAS to two (2) prewired red wires in blower compartment.

Step 5:

Attach and seal weather tight return duct to Economizer.

Step 6:

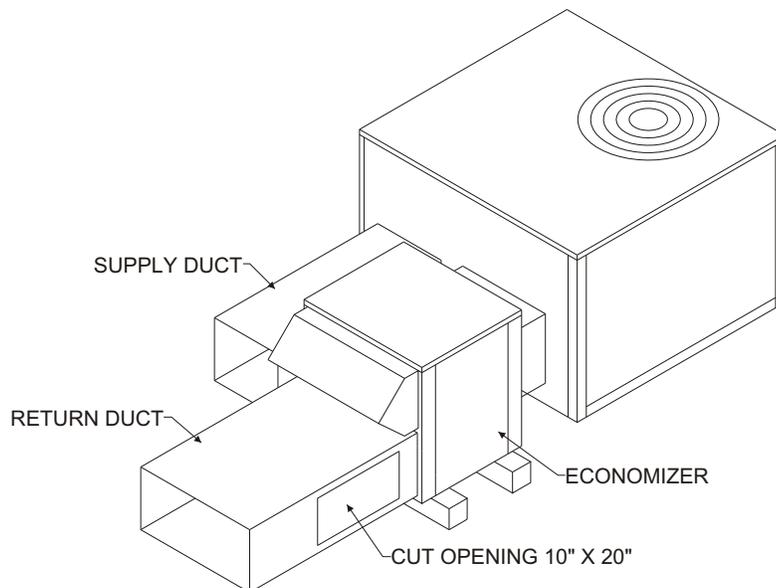
If the barometric relief is to be installed cut a 10" x 20" hole in the return air duct near Economizer.

Step 7:

Secure barometric relief damper near Economizer over hole in return air duct using (4) screws provided.

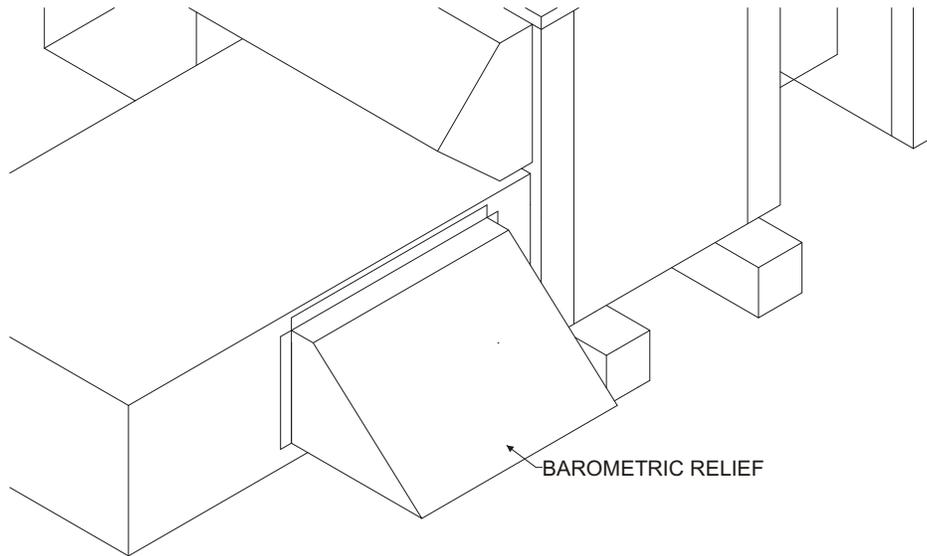
Step 8:

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



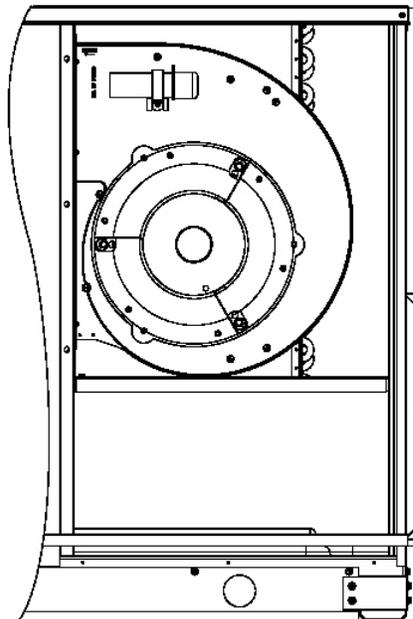
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Step 9:

Turn power back on to the unit. See the enclosed Honeywell specification data for operation and check out.



HARNESS DETAIL

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
- E7 Raw End
- E8 Female ⅜ Quick Disc.

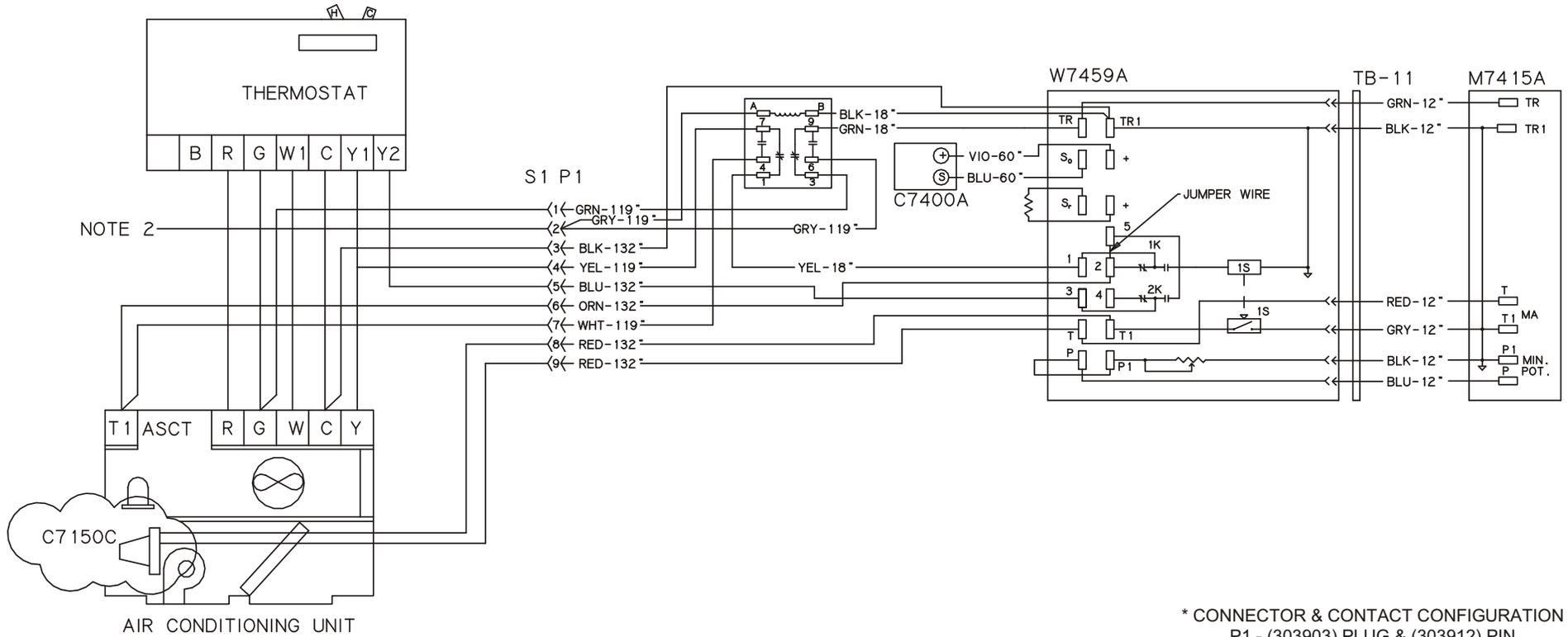
**HARNESS
ENDS AT P1**

COMPONENT CODE

- C7400A Fresh Air Sensor
- M7415A Damper Actuator 24v
- C7150C Mixed Air Sensor
- W7459A Logic Module
- P1 Economizer Plug
- S1 Unit Economizer Plug
- TB-11 Terminal Board

WIRE COLOR CODE

- | | | | |
|-----|--------|-----|-------|
| BLK | Black | BLU | Blue |
| GRN | Green | GRY | Gray |
| ORN | Orange | RED | Red |
| VIO | Violet | WHT | White |
| YEL | Yellow | | |



* CONNECTOR & CONTACT CONFIGURATION
P1 - (303903) PLUG & (303912) PIN

Notes:

1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring.
2. Connection: "R4" units: Yellow side of gas valve
"P4" units: "W" on A/C unit
"Q4" units: "B" on indoor thermostat sub-base.
3. Y2 must be energized for the compressor to operate during economizer operation.

**Horizontal Modulating Economizer
R4GM 072 P6SD, Q6SD, R6GD 024-060 Units**

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Date: January 14, 2002

Supercedes: 01-10-02

Drawn by:

Unit # 47-324-06

Diagram# 32406W