

INSTALLATION INSTRUCTION

INSTALLATION INSTRUCTIONS FOR
547842 / 555578 / 555579 / 547843 / 555580 / 555581 / 555651
POWER EXHAUST USED WITH R4GM 072
P6SD, Q6SD, R6GD 024-060 UNITS

FORM# 836B-0808 (836B-1104)

DOWN FLOW APPLICATION

I - SHIPPING AND PACKING LIST

Package 1 of 1 contains:

- 1 - Power Exhaust Assembly
- 1 - Fresh Air Hood
- 8 - #10 x 1/2 x 16 Hex Tec
- 1 - End Switch Kit

Check contents for shipping damage. Contact the last carrier immediately if any shipping damage is found.

II - APPLICATION

The power exhaust is designed to relief excess pressure that may occur with economizers or building conditions.

III - INSTALLATION

1. Disconnect all power to unit.
2. Cut and discard wire tie securing wire bundle for high voltage connection.

Important - DO NOT cut other wires. Inspect for damaged connections or loose wires.

3. Remove barometric relief hood and fresh air hood of the economizer or if installing along with economizer omit this step. See Figure 4.

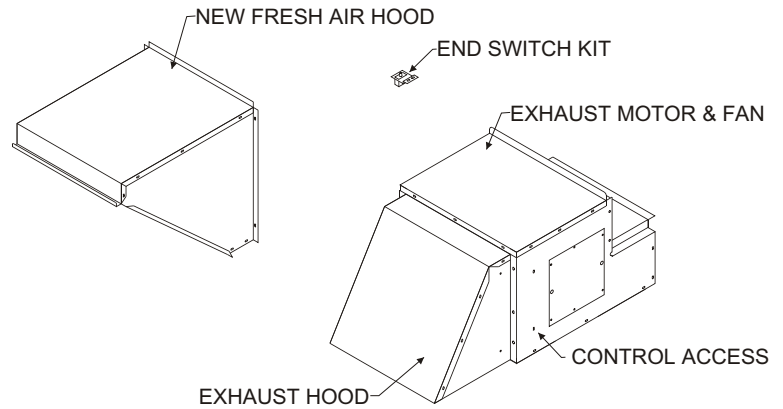


FIGURE 1

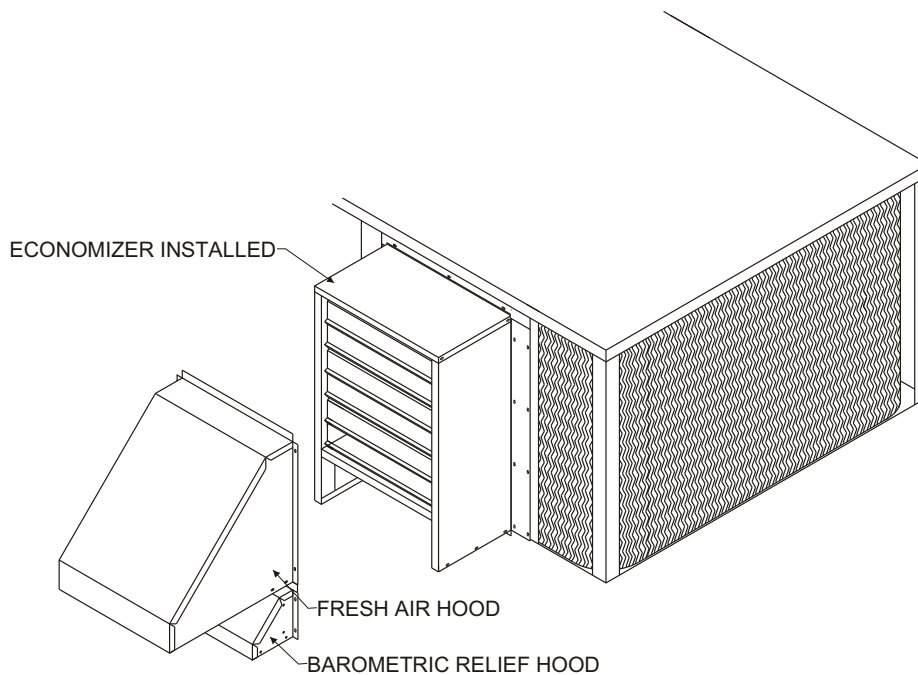
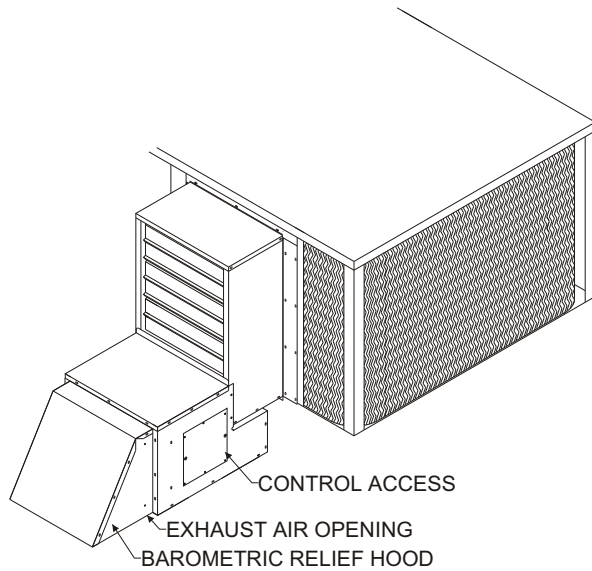
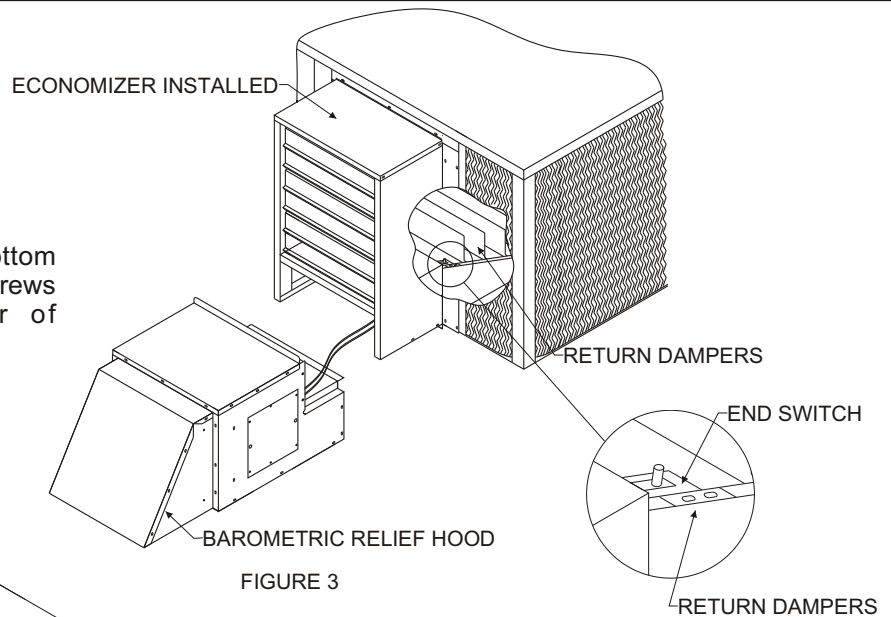


FIGURE 2

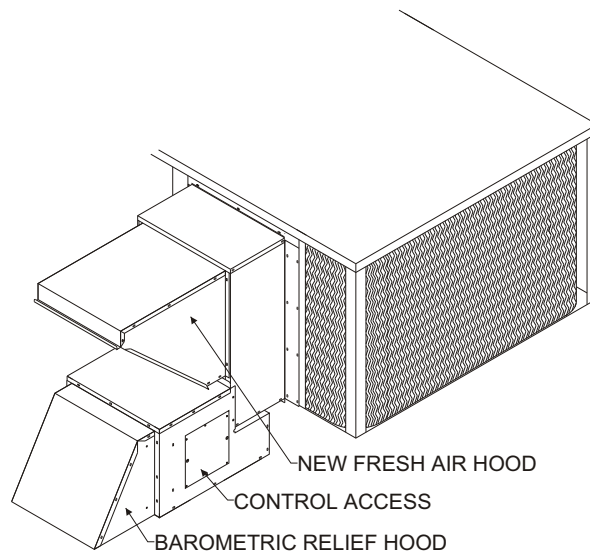
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4. Route end switch wires through bottom opening in economizer. Secure with screws provided to the return damper of



5. Secure power exhaust to the unit face with screws provided.



6. Install new fresh air hood in front of economizer.
7. Restore power to unit and check for proper operation.

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HORIZONTAL APPLICATION

I - SHIPPING AND PACKING LIST

Package 1 of 1 contains:

- 1 - Power Exhaust Assembly
- 1 - Fresh Air Hood
- 6 - #10 x ½ x 16 Hex Tec
- 1 - End Switch Kit

Check contents for shipping damage. Contact the last carrier immediately if any shipping damage is found.

II - APPLICATION

The power exhaust is designed to relief excess pressure that may occur with economizers or building conditions.

III - INSTALLATION

1. Disconnect all power to unit.
2. Cut and discard wire tie securing wire bundle for high voltage connection.

Important - DO NOT cut other wires. Inspect for damaged connections or loose wires.

3. Remove barometric relief hood from return duct of the economizer or if installing along with economizer omit this step. See Figure 4.
4. Mount end switch kit and harness to economizer damper motor as shown on the next two pages.

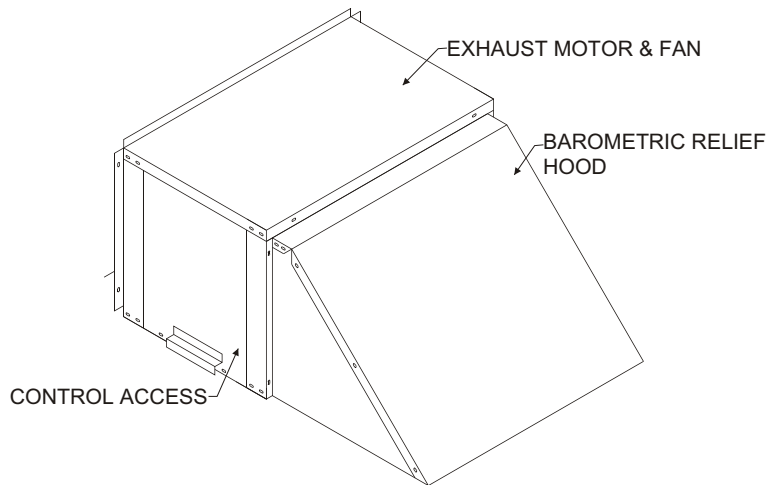


FIGURE 1

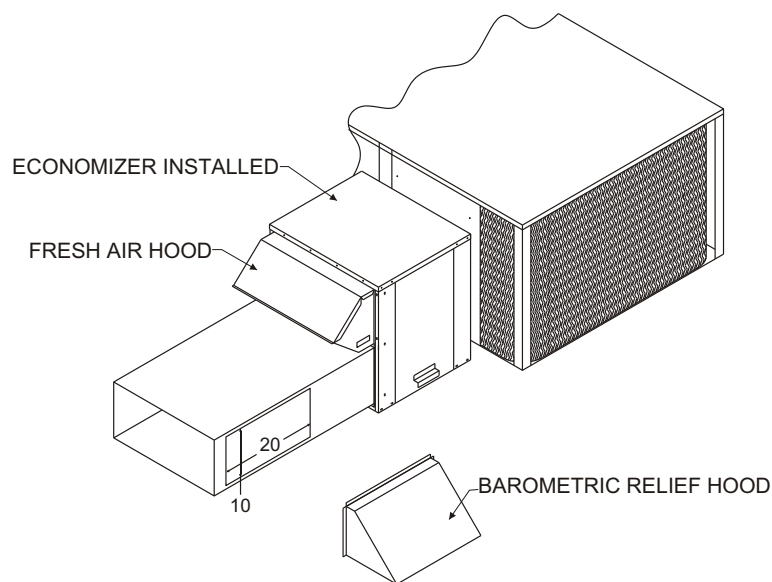


FIGURE 2

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MOUNTING

1. Determine the crank arm stroke range (See Fig. 1) by running the actuator through one complete cycle. Mount the switch on the side opposite of the crank arm stroke range.
2. Disconnect power to the actuator and the device to be controlled by the 4074EKV Auxiliary Switch.
3. Assemble the switch and plastic insulating boot (See Fig. 2). Attach the switch and plastic insulating boot to the switch mounting plate with the two #4-40 screws, two washers and two lock washers provided with the switch assembly.

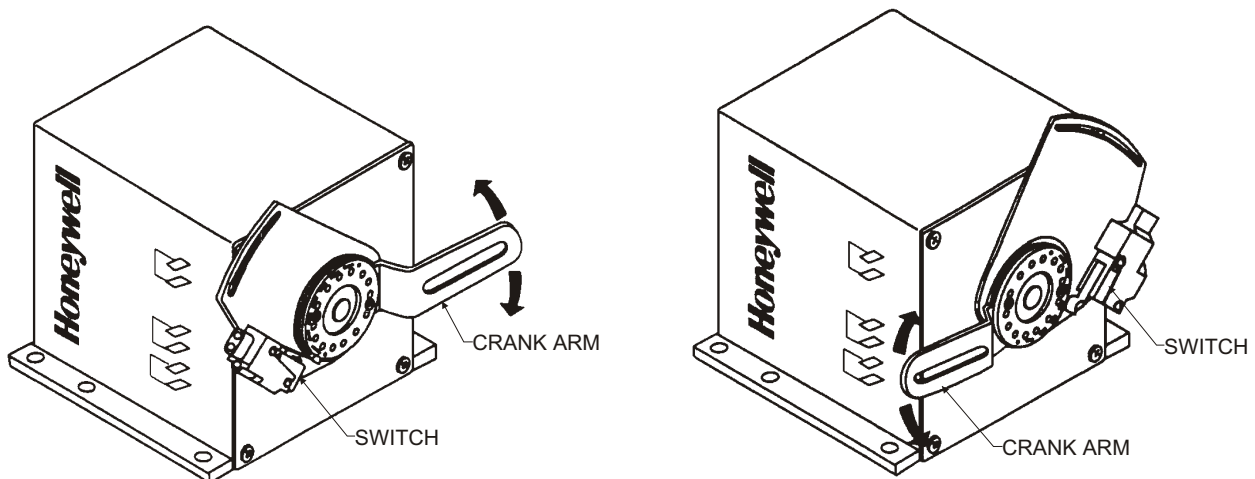
Note: The #4-40 screws provided with the switch assembly are sized to allow the switch mounting plate to mount flush against the actuator side panel.

4. Mark the actuator crank arm position on the actuator panel with a pencil, pen or tape.
5. Remove the actuator crank arm.
6. Based on the determination of the crank arm stroke range in Step 1 above, remove the screw from the upper actuator corner where the switch mounting plate is to be assembled. (See Fig. 1)
7. Place the switch mounting plate over the actuator drive spindle and fasten it in place with the actuator corner screw from Step 6 (See Fig. 3). Center the screw in the switch mounting plate slot.
8. Place the actuator crank arm over the switch mounting plate, aligning the crank arm with the placement marks from Step 4.
9. Determine at which point in the actuator crank arm rotation the auxiliary switch should close. Install the circular switch cam over the actuator crank arm, positioning one of the small reference holes in the circular switch cam at the switch close point on the actuator crank arm (See Fig. 4). The two small holes in the circular switch cam are references for the make/break point of the switch. The portion of the circular switch cam shown with a dotted line in Fig. 4 identifies the cam area that will close the switch when the actuator crank arm rotates.

Note: Two small protrusions on the bottom of the circular switch cam fit into holes on the actuator crank arm to position the cam.

10. Bend the metal arm on the switch arm loop (if necessary) by using a small screwdriver blade to adjust the switch open and close points on each side of the reference hole (See Fig. 5).

Fig. 1 - Determine placement of 4074EKV Auxiliary Switch on actuator.



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Fig. 2 - Assemble switch and plastic insulating boot and attach to switch mounting plate.

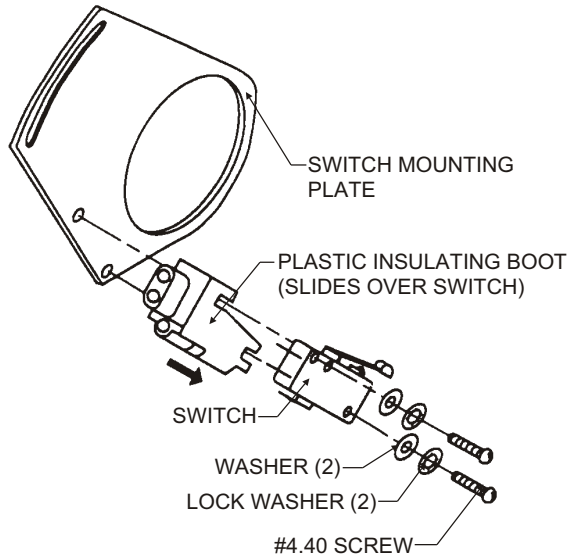


Fig. 3 - Mount switch mounting plate on actuator.

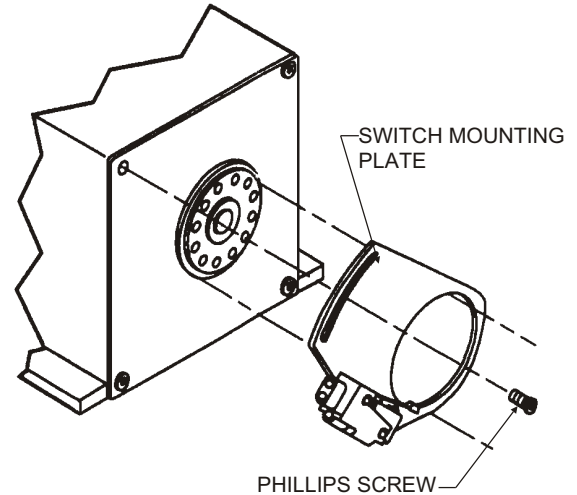


Fig. 4 - Set circular switch cam for make/break points.

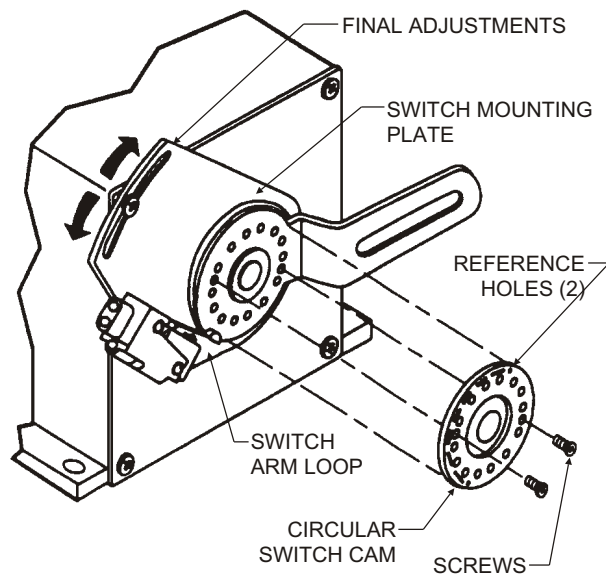
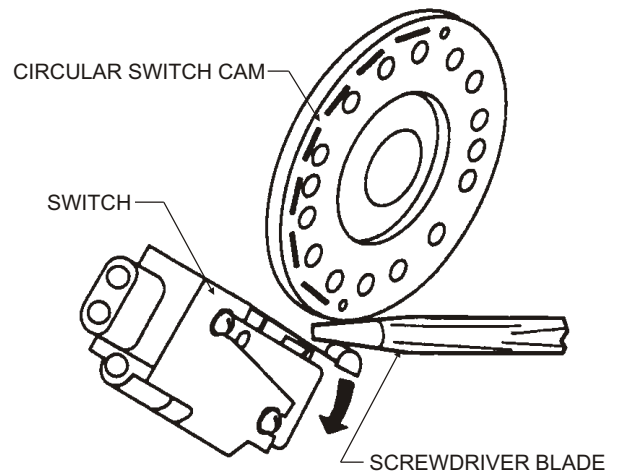


Fig. 5 - Bending the metal arm on the switch for adjustment of switch make and break.



ADJUSTMENT

If a finer adjustment is necessary, loosen the screw holding the switch mounting plate on the actuator and move the switch mounting plate to correctly place the switch arm loop on the circular switch cam. Carefully tighten the Phillips screw. Do not over torque the screw to prevent stripping the actuator plastic case threads.

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5. Secure power exhaust to the face of the return damper with screws provided.
6. Route high voltage harness per building code.
7. Restore power to unit and check for proper operation.

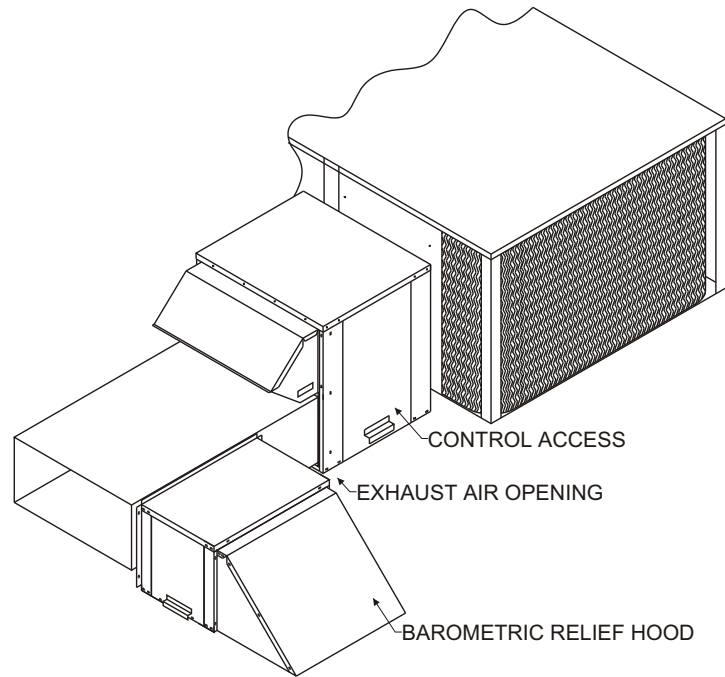
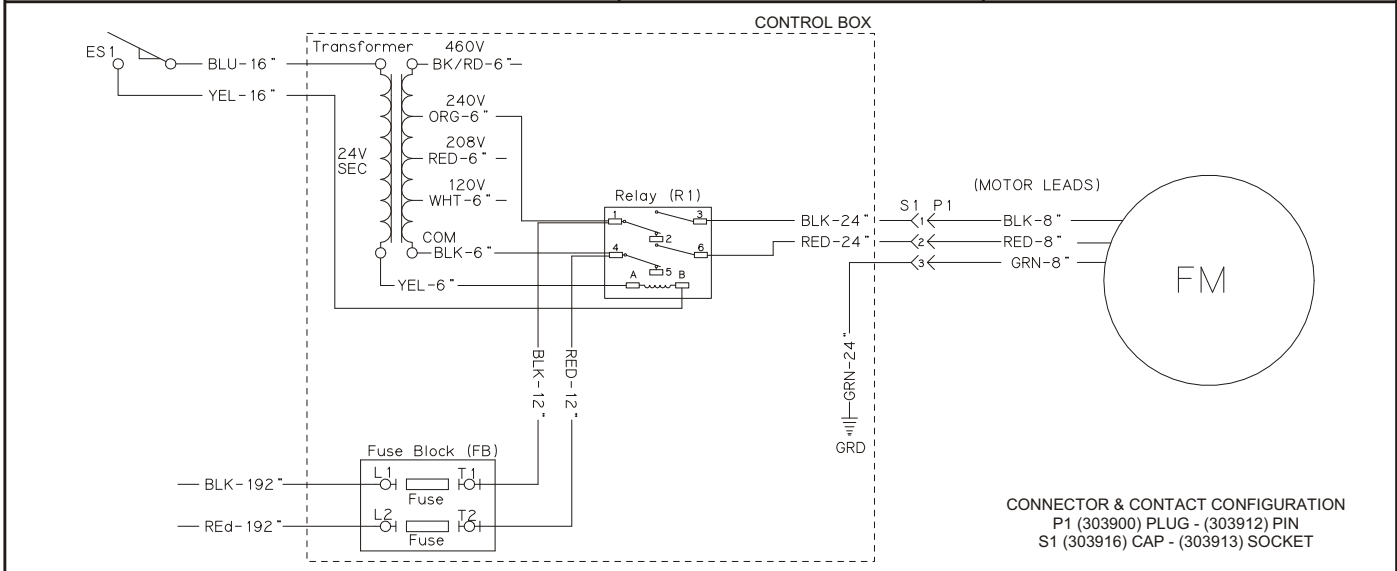


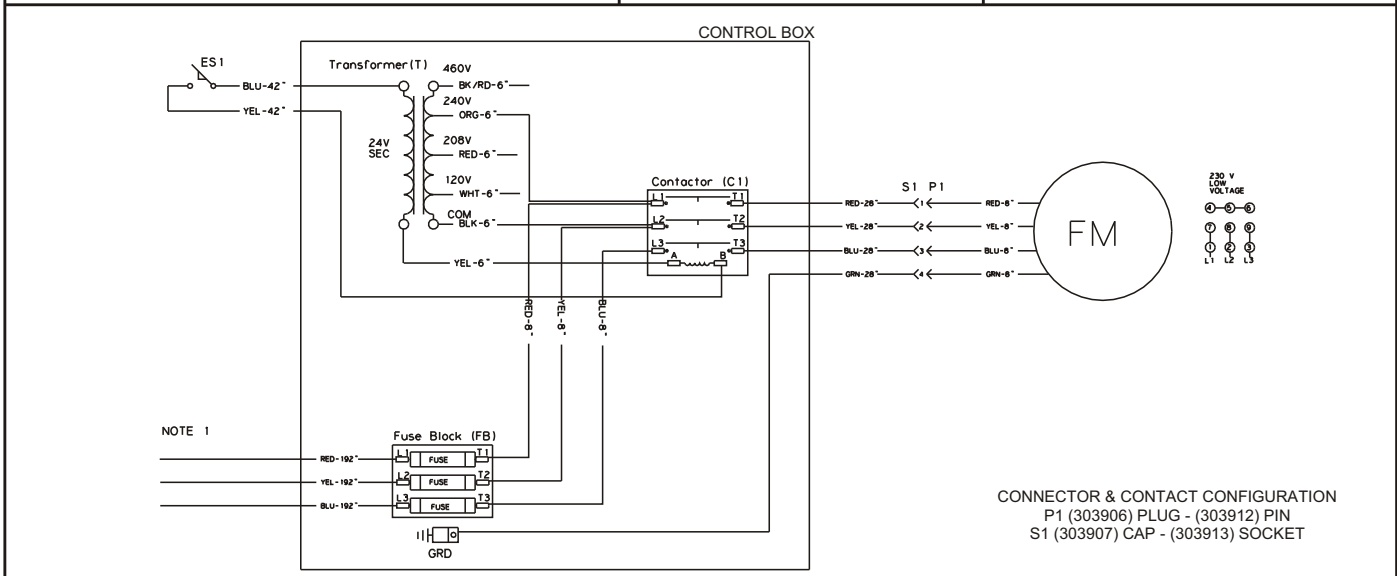
Figure 3

E# = WIRE END DESIGNATION	HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION	COMPONENT CODE	WIRE COLOR CODE
E2	STUD #6 18 Ga. Wire	FM	Fan Motor
E3	Female ¼ Quick Disc.	ES1	End Switch
E4	Male ¼ Quick Disc. Insul	P1	Motor Plug Male
E6	Wire Nut Size 73B	S1	Control Box Female
		R1	Relay
		FB	Fuse Block
		GRD	Ground
BK/RD	Black/Red	BLK	Black
BLU	Blue	BRN	Brown
GRN	Green	ORG	Orange
RED	Red	WHT	White
YEL	Yellow		



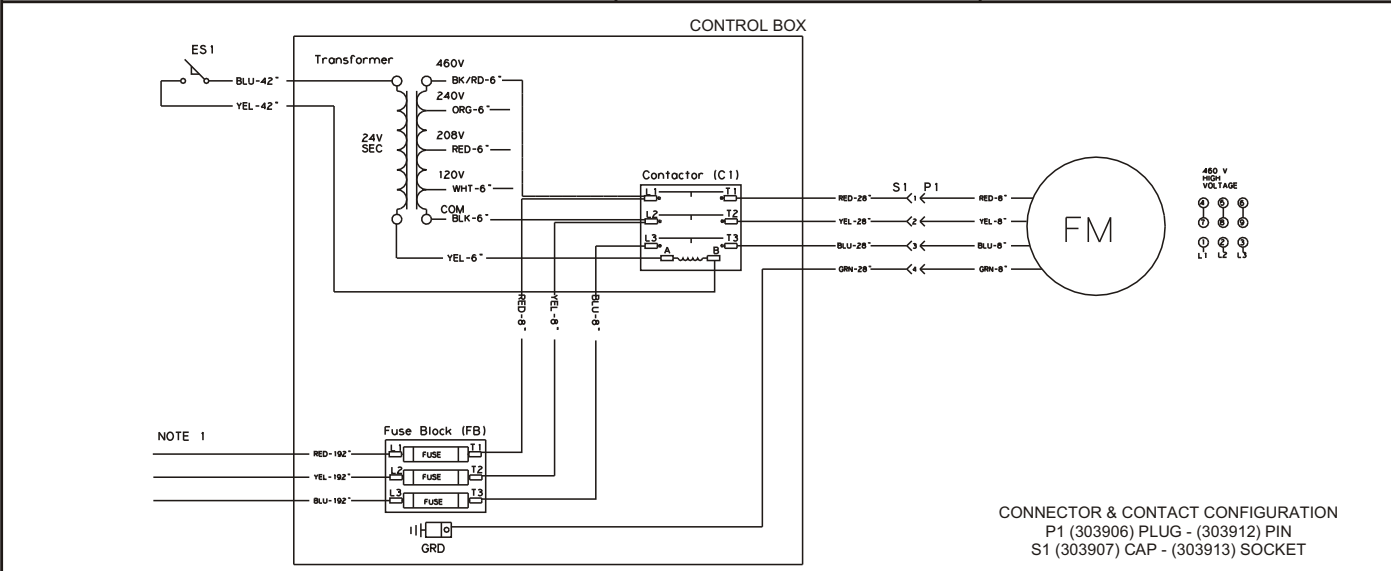
Notes: 1. Unit may be wired for HI or LO speeds. Diagram shows the HI speed set up, to rewire for LO speed, disconnect BLK wire from relay and connect RED for LO. 2. Be sure all leads from motor have been covered with tape.	230 Volt 1-Phase Power Exhaust
	Date: November 25, 2003 Supercedes: Drawn by: Unit #: 547842/547843 Diagram#: 4650621W

E# = WIRE END DESIGNATION	HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION	COMPONENT CODE	WIRE COLOR CODE
E2	STUD #6 18 Ga. Wire	FM	Fan Motor
E3	Female ¼ Quick Disc.	C1	Contactor
E4	Male ¼ Quick Disc. Insul	T	Transformer
E6	Wire Nut Size 73B	ES1	End Switch
		P1	Fan Plug Male
		S1	Control Box Female
		GRD	Ground
BK/RD	Black/Red	BLK	Black
YEL	Yellow	WHT	White
ORG	Orange	RED	Red
GRN	Green	BLU	Blue



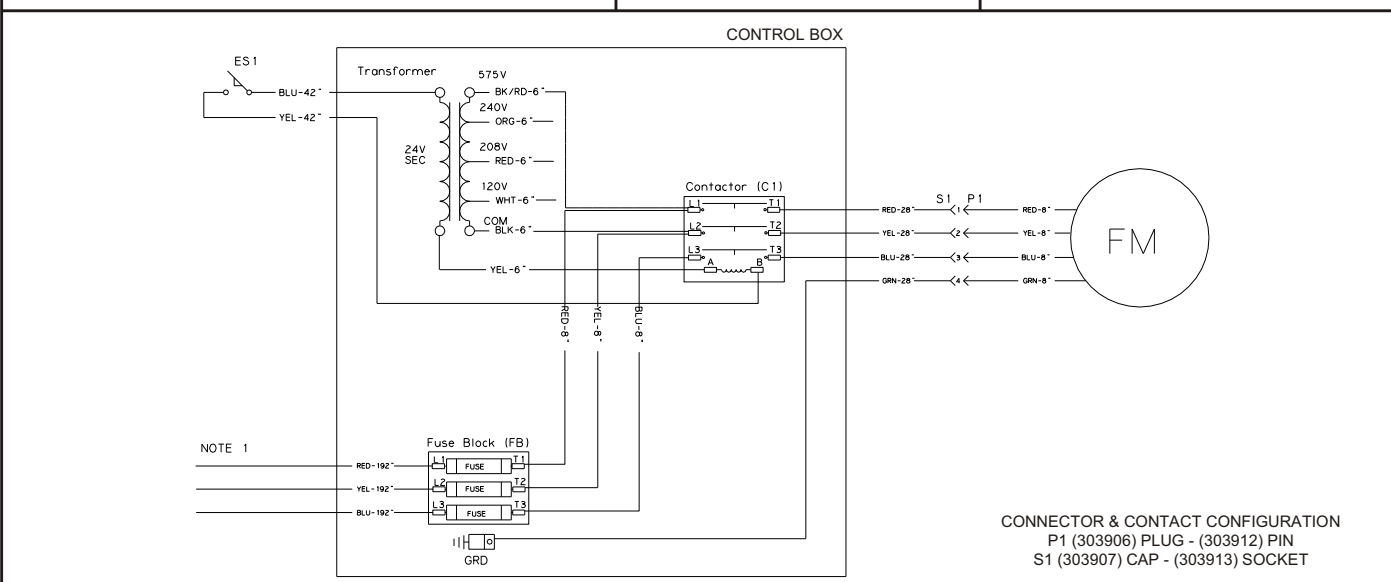
Notes: 1. Connect harness leads to load side of blower contactor.	230 Volt 3 Phase Power Exhaust
	Date: November 25, 2003 Supercedes: Drawn by: Unit #: 555578/555580 Diagram#: 4650623W

E# = WIRE END DESIGNATION		COMPONENT CODE	WIRE COLOR CODE
E2 STUD #6 18 Ga. Wire E3 Female ¼ Quick Disc. E4 Male ¼ Quick Disc. Insul E6 Wire Nut Size 73B	HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION	FM Fan Motor C1 Contactor T Transformer ES1 End Switch P1 Fan Plug Male S1 Control Box Female GRD Ground	BK/RD Black/Red BLK Black YEL Yellow WHT White ORG Orange RED Red GRN Green BLU Blue



Notes: 1. Connect harness leads to load side of blower contactor.	460 Volt 3 Phase Power Exhaust
	Date: November 25, 2003 Supercedes: Drawn by: Unit #: 555579/555581 Diagram#: 4650633W

E# = WIRE END DESIGNATION		COMPONENT CODE	WIRE COLOR CODE
E2 STUD #6 18 Ga. Wire E3 Female ¼ Quick Disc. E4 Male ¼ Quick Disc. Insul E6 Wire Nut Size 73B	HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION	FM Fan Motor C1 Contactor T Transformer ES1 End Switch P1 Fan Plug Male S1 Control Box Female GRD Ground	BK/RD Black/Red BLK Black YEL Yellow WHT White ORG Orange RED Red GRN Green BLU Blue



Notes: 1. Connect harness leads to load side of blower contactor.	575 Volt 3 Phase Power Exhaust
	Date: February 2, 2005 Supercedes: Drawn by: Unit #: 555651 Diagram#: 4650643W