

AM15-F POWERED VENT FAN KIT – PART NO. 918164

INSTALLATION INSTRUCTIONS

NOTE: This kit must be installed only by an authorized Hobart Trained Service Technician.

NOTE: Models with gas tank heat must have the products of combustion vented to the outside air. If this powered vent fan kit is installed on a machine with gas tank heat, consult local code for proper venting requirements.

This kit is designed to fit an AM15-F dishwasher; however, the kit can also be installed on AM15-T dishwashers. The powered vent fan will add an additional 23" to the overall height of machine as measured from top of the chamber. Provision must be made to extend the 10" diameter duct to the outside air.

Install power vent fan kit using a maximum 30 ft. of 10" diameter straight duct; or, 20 ft straight and two (2) 90° elbows, or equivalent. Distances greater than the stated maximum lengths may reduce venting efficiency.

Power to power vent fan control (VFC) is line voltage (208-240/480/60) supplied through the final rinse relay normally closed contacts 1CR-3 and 1CR-7. A step down transformer is provided to drop the VFC voltage down to 120 volts matching the voltage rating of the fan.

Parts Information

1. Verify kit contents.

POWERED VENT FAN CONTROL KIT - PART NO. 918164		
Part No.	Description	Qty.
513886-2	RTV 732 Sealer	1
---	Foam Tape	1
918158	Vent Housing	1
893947	Inside Vent Deflector	1
SC 041-09	Cap Screw, 5/16-18 X 1/2	6
WS 005-32	Flat washer, 5/16	6
WL 006-23	Lock Washer, 5/16	6
NS 015-11	Hex Nut, 5/16-18 SST	6
892097	Exhaust Duct Housing	1
SC 067-07	Cap Screw 10-24 x 1/2"	4
WL 006-07	Lock Washer, #10	4
918088	Fan Motor (115 volt)	1
892250	Fan Blade 10"	1
FE 022-84	Electrical Strain Relief	2
FE 024-88	Locknut	2
294436-3	Fuse Block	1
SD 019-29	#6 Self Tapping Screw	1
FE 022-39	1.5A Fuse, 250V	1
87714-068	Time Delay Relay	1
SD 036-13	1/4-20 Self Tapping Screw	1
294500-52-1	Transformer	1
SD 08-25	#10 Self Tapping Screw	4
WL 014-07	Lock Washer, Ext #10	1
87713-18-2	Contact	1
F-25085	Installation Instructions	1
F-35397	Label, Electrical Wiring Diagram	1
F-35398	Label, Service Supply	1
---	Wire Set	1

--- Not available as replacement part.

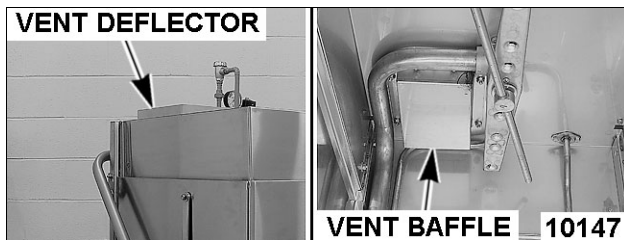
Instructions

WARNING: ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER LOCAL ELECTRICAL CODES.

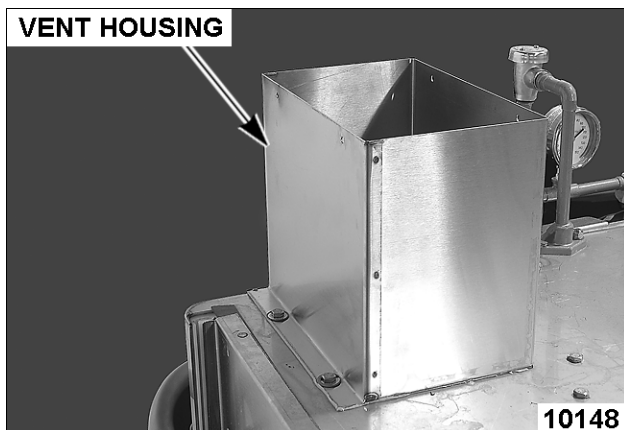


WARNING: DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES. THERE MAY BE MULTIPLE CIRCUITS. BE SURE ALL CIRCUITS ARE DISCONNECTED.

1. Remove existing vent deflector from outside top of machine. Discard part.
2. Remove the vent baffle (inside chamber) and discard. Do not remove vent flaps from top of chamber.

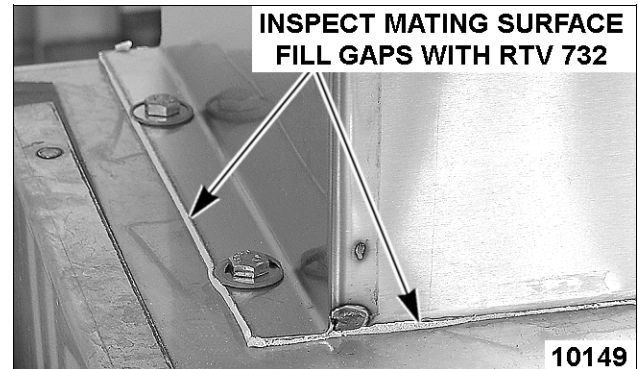


3. Clean top of chamber where vent deflector was mounted.
4. Apply foam tape to bottom of vent housing flange.
5. Install flat washers onto six 5/16-18 x 1/2" screws.
 - A. Apply PERMAGUM® to side of washer away from screw head.
6. Install vent housing onto top of chamber.
 - A. Insert a 5/16-18 x 1/2" screw and flat washer with PERMAGUM® into each mounting hole (six places).

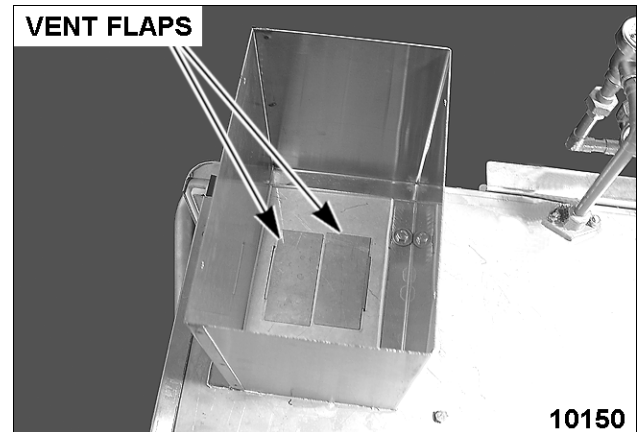


NOTE: The inside vent deflector channels air flow and does not have the cross splash baffle construction.

7. Install inside vent deflector supplied with kit and secure it into position over threads of mounting screws.
 - A. Secure with lock washers and nuts.
8. Check seal between vent housing flange and top of chamber mating surfaces. Fill any voids between foam tape and top of chamber with RTV 732.



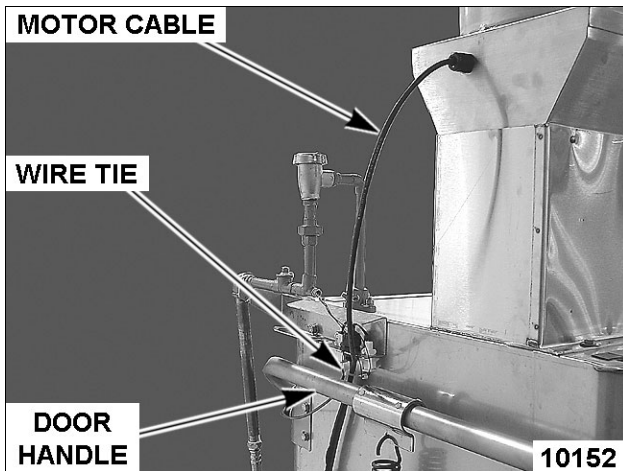
9. Verify that vent flaps are installed.



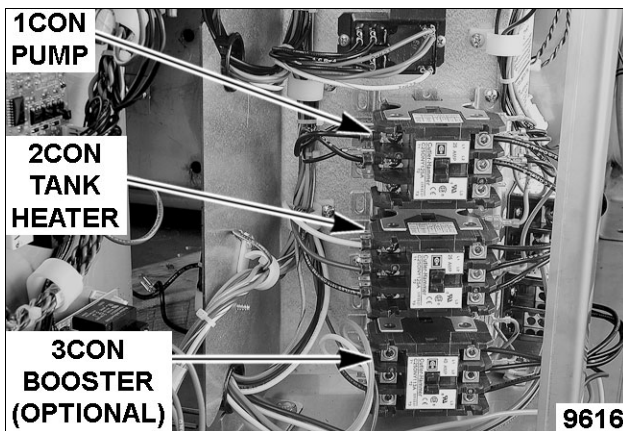
10. Install exhaust duct housing with motor cable exiting to rear of machine onto vent housing. Secure housing with supplied 10-24 screws and washers.
11. Seal the junction of the two housings with RTV 732.



- Route motor cable between right side door handle and back of machine and through the P-clips. Verify cable is not crimped by door handle and is routed away from the flue (gas machines only).



- Remove front and right side covers.
 - Open control door.
- Remove knockout on right rear bottom bracket of machine.
 - Install electrical strain relief into opening.
 - Route motor cable into electrical control area of machine through strain relief. Tighten relief.
- Note connection points and disconnect wires from 1CON contactor.
 - Remove 1CON contactor from the front control panel.



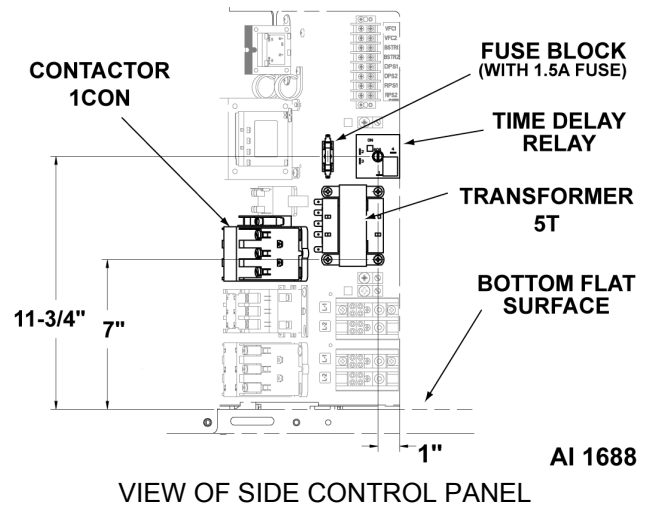
- Cut the terminals off of 1CON - T1, T2 and T3 wires. Strip the insulation on wires back 0.500-0.625 inches.
- Install new contactor supplied in the kit and reconnect wires to contactor.
 - Affix label F-35398 to tank if label is not present.



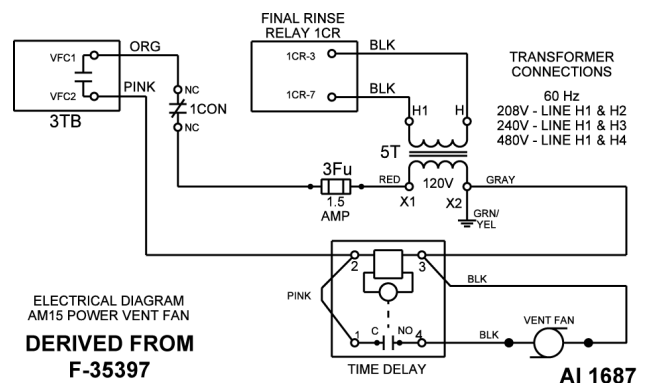
- Use the dimensions shown in the illustration for locating the power vent fan electrical control components.

NOTE: Use the bottom flat surface of machine frame as a reference when taking measurements.

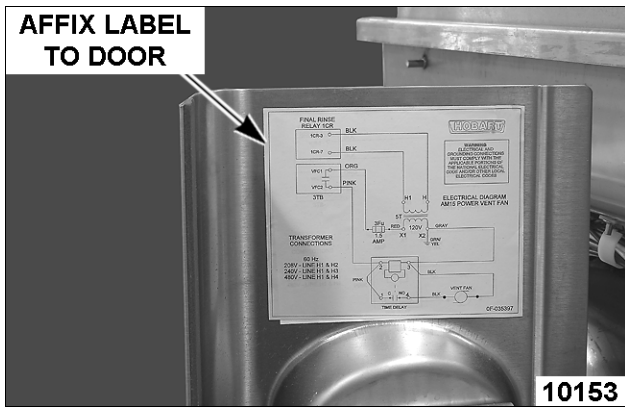
Component	Drill Size	Screw Size	Qty.
Transformer	5/32"	No.10	4
Fuse Block	No. 32	No. 6	1
Time Delay Relay	7/32"	1/4"	1



- Install the 1.5A fuse into the fuse block.
- Wire the components into the circuit as indicated using the wire set provided in the kit.



21. Affix electric diagram F-35397 to top of control door.



Sequence of Operation

NOTE: The time the fan is on is adjustable from 1-60 seconds.

1. Turn power on to machine, VFC1 and VFC2 contacts close.
 - A. An initial fan cycle will begin. After 6 seconds the fan will turn on for the preset time and then shut off.
2. Under normal operation a fan cycle will begin at the end of the final rinse cycle. After 6 seconds the fan will turn on for a preset time and then shut off.

Powered Vent Fan - Exploded View

