

Oil Fired Blocked Vent Safety Kit Instructions

For Chimney Vent Use Only

Kit Number 3002237

Kit installation and service shall be completed by qualified agency.

⚠ WARNING

Fire, explosion, asphyxiation and electrical shock hazard. Improper installation could result in death or serious injury. Read this instruction and understand all requirements, including requirements of authority having jurisdiction, before beginning installation. Installation not complete until appliance operation is verified per Installation, Operation & Maintenance Manual provided with Appliance.

⚠ WARNING

Do not reset safety device or restart appliance unless cause for its activation has been identified and corrected by a qualified technician. Ensure switch and appliance has been serviced by a qualified technician prior to placing back into service.

Install this kit in accordance with these instructions, authority having jurisdiction, and:

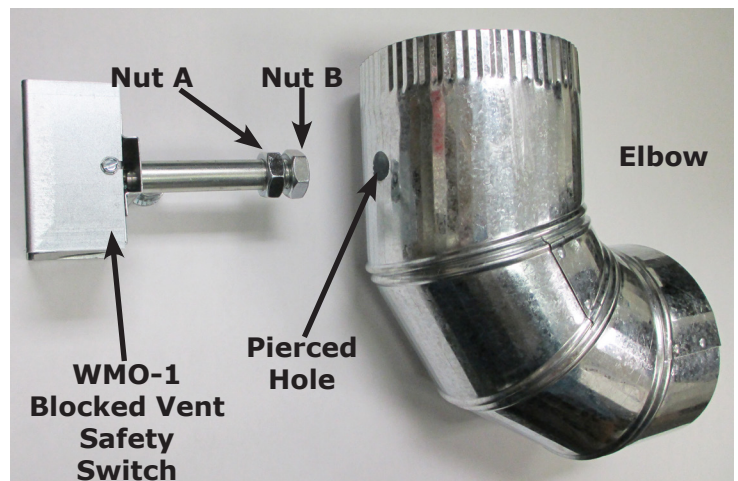
- USA - NFPA 31 Standard for the Installation of Oil Burning Equipment
- Canada - CAN/CSA B139 Installation Code for Oil Burning Equipment.

Wiring must be in accordance with Canadian Electrical Code and any other applicable federal, provincial and local code requirements.

United States installations require wiring shall be in accordance with the National Electrical Code and any other applicable federal, state and local code requirements.

Kit Contents	
Description	Qty
Elbow	1
WMO-1 Safety Control	1
Wire Harness	1
Instructions	1

Figure 1 - Blocked Vent Safety Switch



Installation

1. See Figure 1. Remove nut B from heat transfer tube of safety switch assembly.
2. Tighten nut A onto heat transfer tube as far as possible.
3. Insert threaded end of heat transfer tube into pierced hole in provided elbow. Note "UP" indicator on safety switch cover.
4. Install nut B that was removed in step 1 and tighten, securing safety switch to elbow.
5. Install elbow on breech of appliance using three (3) sheet metal screws.
6. Use supplied wire harness.
7. Connect end of harness with ring connectors to safety switch. See Figure 2.

INSTALLATION

8. Push box connector into place to secure wire harness to WMO-1 control.
9. Connect other end of harness to limit switch. See Figure 3.
10. Remove knockout from limit cover and push 90° box connector into place to secure wire harness to limit cover.
11. Wire safety switch in series with limit circuit as indicated in appliance wiring diagrams and Figures 3 and 4.
12. Secure wiring to ensure it does not contact venting system.

Blocked Vent Safety Confirmation Procedure

1. Perform start up procedure when appliance installation is complete as indicated in installation manual included with appliance. Blocked vent safety should not turn burner off provided start up and installation is completed properly.
2. Verify inspection doors and over fire draft access ports are closed. Venting connections must be secure.
3. Shut thermostat off and allow appliance to cycle off. Turn supply voltage to appliance off after cycle is complete.
4. Disconnect one connection of blocked vent safety switch.
5. Restore supply voltage to appliance.
6. Turn thermostat up to establish call for heat.
7. Appliance should not start burner. Systems with electronic fan timer boards will start circulating air blower.
8. Shut thermostat off and allow appliance to cycle off. Shut off supply voltage to appliance after cycle is complete.
9. Reconnect wiring connection of blocked vent safety switch.
10. Restore supply voltage to appliance.
11. Turn thermostat up to establish call for heat.
12. Burner should initiate call for heat as normal. Confirm burner settings such as draft, smoke and CO2.
13. Adjust thermostat set point.
14. Burner should shut down when thermostat heating call is satisfied.

Figure 2 - Connections Inside WMO-1

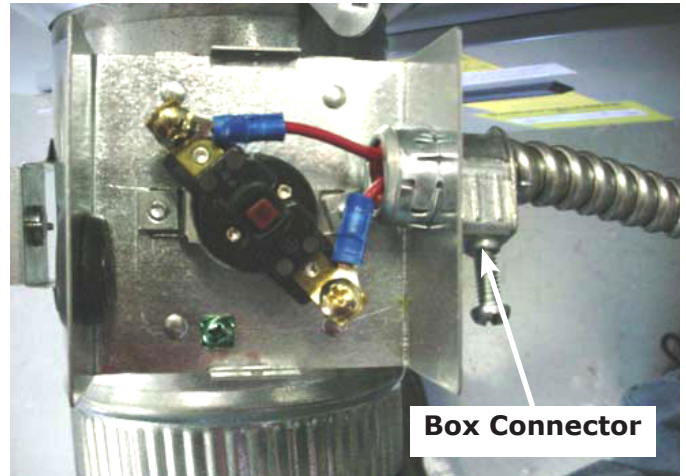
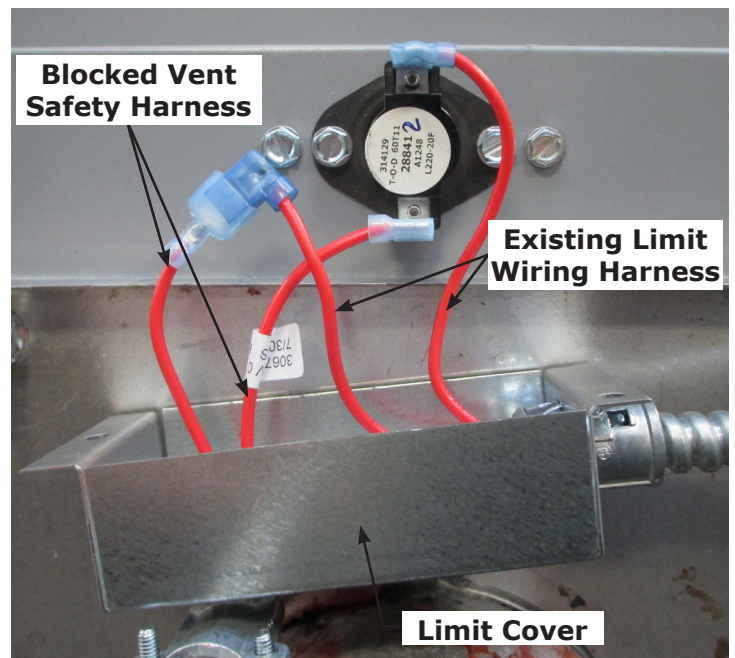


Figure 3 - Wire Connections Inside Limit Cover



INSTALLATION

⚠ WARNING

Fire, explosion, asphyxiation and electrical shock hazard. If for any reason system has shut down during operation, investigate cause of system failure and correct before resetting safety switch and restarting system. Failure to follow these instructions could result in death or serious injury.

NOTICE

Do not dent or scratch surface of thermal switch. If thermal switch is damaged, replacement is required.

Maintenance

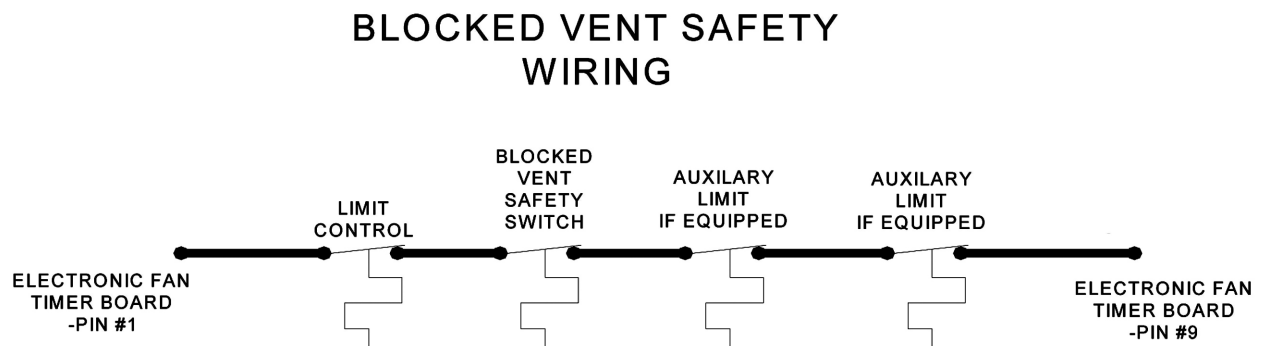
NOTICE

Appliance and switch require annual inspection and cleaning by a qualified technician for continued safe operation.

1. Disconnect power to appliance.
2. Remove two screws securing WMO-1 vent switch assembly cover. Remove cover.
3. Remove wiring connections from terminals of thermal switch.
4. Remove one of two bolts securing thermal switch to assembly base and loosen other.

5. Remove thermal switch and clean residue or particulates from surface.
6. Clean any residue or particulate accumulated inside heat transfer tube.
7. Secure thermal switch to assembly base.
8. Secure wiring connections to terminals of thermal switch.
9. Secure cover of assembly using two screws removed in step 2.
10. Restore power to appliance
11. Perform confirmation procedure outlined in Blocked Vent Safety Confirmation Procedure.

Figure 4 - Blocked Vent Safety Wiring





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