

BLOCKED VENT SAFETY KIT INSTRUCTIONS

TRIFIRE SERIES B

CHIMNEY INSTALLATIONS ONLY

⚠️ 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 verified per Installation, Operation & Maintenance Manual provided with boiler.

⚠️ WARNING

Fire, explosion, asphyxiation and electrical shock hazard. This appliance including the switch requires annual inspection and maintenance by a qualified technician. Failure to properly maintain this appliance and switch could result in death or serious injury.

⚠️ WARNING

Electrical shock hazard. Turn OFF electrical power supply at service panel.

Do not reset safety device or restart appliance unless cause for its activation has been identified and corrected by a qualified technician.

Verify switch and appliance has been serviced by qualified technician prior to placing back into service.

A qualified technician must perform annual inspection.

Installation shall be in accordance with requirements of authority having jurisdiction refer to:

- Canada - Canadian Electrical Code, Part I, CSA C22.1: Safety Standard for Electrical Installations.
- USA- National Electrical Code, ANSI/NFPA 70.

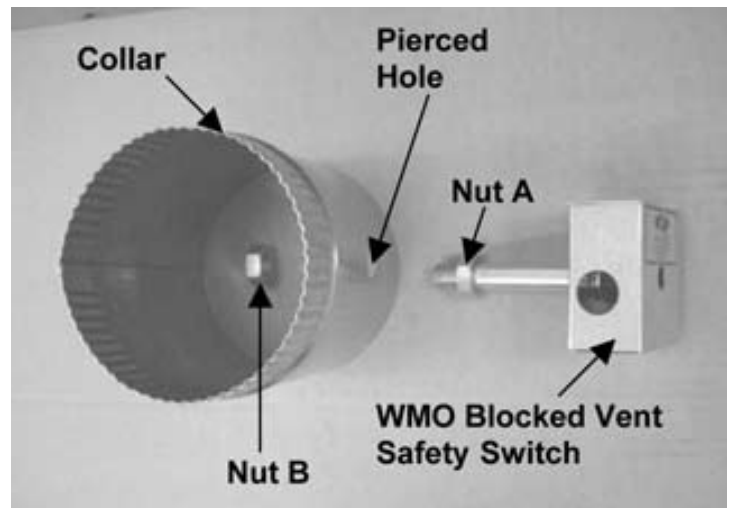
Installation Rear Breach

1. Remove Nut B from safety switch assembly pipe. Tighten Nut A (remaining nut) onto heat transfer tube as far as possible. See Figure 1.
2. Insert threaded pipe end into pierced hole of provided collar. Reinstall Nut B.
3. Secure collar onto breach of the appliance using three sheet metal screws. See Figures 3 & 4 for correct positioning. Locate safety switch to permit service.
4. Safety switch is factory pre-wired. If replacing wire, the two black wires go to each side of switch and green wire to ground lug. See Figure 2.
5. Plug side of electrical cable is plugged into limit control connector. See Wiring Diagram.

PART NUMBER	DESCRIPTION	QTY
550001930*	6" FLUE KIT (CONTAINS THE FOLLOWING)	
30656	6" COLLAR	1
30660	WMO-1 SAFETY CONTROL	1
240007547	WIRE HARNESS	1
550001931*	5" FLUE KIT (CONTAINS THE FOLLOWING)	
30655	5" COLLAR	1
30660	WMO-1 SAFETY CONTROL	1
240007547	WIRE HARNESS	1

* Requires p/n 240004880 Vent Safety Wiring Harness (Connects to Limit Control) (Not part of kit, provided with Canadian boilers only)

Figure 1 - Safety Switch Orientation



Blocked Vent Safety Confirmation Procedure

1. When appliance installation is complete, perform proper start up procedure as indicated in installation manual included with appliance. Blocked vent safety should not turn burner off, if start up and installation is completed properly. Verify inspection doors and over fire draft access ports are closed. Secure all venting connections.
2. Turn thermostat off. Allow appliance to cycle off. Turn supply voltage to appliance off after cycle is complete.
3. Disconnect one connection of blocked vent safety switch.

NOTICE

Refer to system check out procedure section before operating.

4. Restore supply voltage to appliance.
5. Turn thermostat up to establish call for heat.
6. Appliance should not start heating cycle. Boiler burners will not start. There should be no power to limit control.
7. Turn thermostat off and allow appliance to cycle off. Turn off supply voltage to appliance after cycle is complete.
8. Re-connect wiring connection of blocked vent safety switch.
9. Restore supply voltage to appliance.
10. Turn thermostat up to establish call for heat.
11. Burner initiates call for heat. Confirm burner settings such as draft, smoke and CO2.
12. Adjust thermostat set point.
13. Burner should shut down when thermostat heating call is satisfied.

If system has shut down during operation, investigate and correct cause before resetting safety switch and re-starting the system.

Figure 2 - Safety Switch Wiring

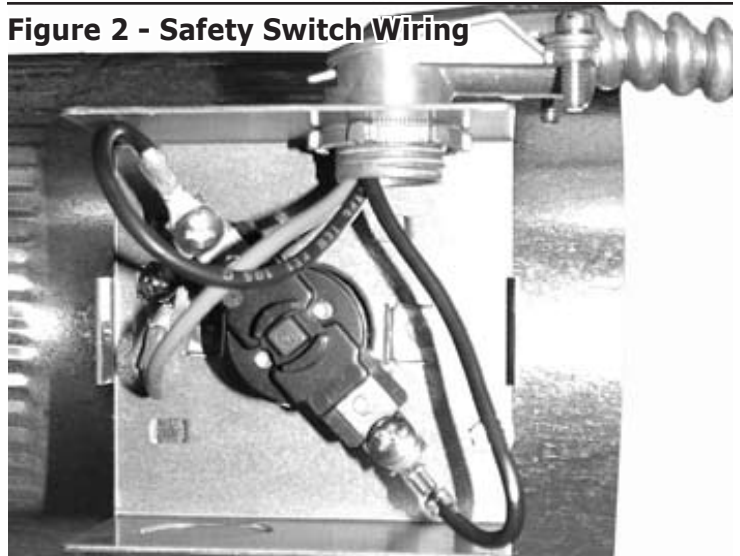


Figure 3 - Acceptable Mounting Position 1



Figure 4 - Acceptable Mounting Position 2



Maintenance

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

NOTICE

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

5. Remove thermal switch. 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. Two black wires attach to switch terminal and green wire to ground lug. See Figure 2.
9. Restore power to appliance. Perform Blocked Vent Safety Confirmation Procedure from previous page.
10. Secure cover of vent safety switch assembly using two screws removed in step 2.

Wiring Diagram for 3 Pass Oil Chimney Vent Boilers with Blocked Vent Switch

