

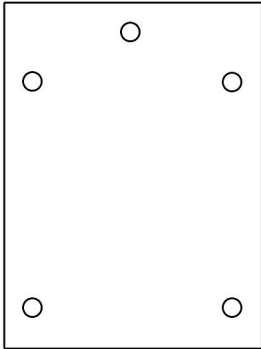
AOV MULTI ZONE - STANDARD SETUP GUIDE

It is recommended that you follow these step by step points when first installing equipment. Doing so means set up issues are easily tracked back to the last point the system was working correctly and can be identified more easily.

For location information please refer to DIAGRAM 1 for each circuit card's layout and technical details.

STEP 1

Mark out and fix Panel in correct location using the mounting holes.



STEP 2

Install 240Vac feed to the power supply ONLY. Allow the system to close and reset.

Indication will be:

Mains (green)

Fault (amber - no batteries)

Closing (amber all zones)

All zones will reset (amber off except fault indicator)

STEP 3

Test trigger the system by removing 1 wire link from a "fire all zones" terminal.

Let all zones go open (green lights) then re-insert wire link and allow all zones to close (amber) and reset (no green or amber).

System working.....Start to install actuator / vent wiring;

NOTE: If the system needs a MASTER ZONE (stairwell or shaft to open together with any other zone triggered) you must wire that zone's actuators to ZONE 1. Then wire the following zones from ZONE 2 onwards.

See APPENDIX 2 for instruction on MASTER ZONE wiring before continuing.

Once you have confirmed your MASTER ZONE setup or you do not require it carry on to STEP 4;

Wiring of the system is best done in logical order - Eg Bottom floor to Top Floor (or Master Zone then Bottom Floor to Top Floor)

STEP 4

REMOVE THE POWER

(disconnect 240vac or remove the mains fuse)

STEP 5

Wire your ZONE1 actuator into the ACT terminal above zone 1. Install each zone's actuators in the same way.

Check all actuators are installed and free moving before powering back up.

STEP 6

- > POWER UP (240vac) starts a system reset. Any actuators open will now start to close. Allow the system to reset and check all windows / vents are all closed (if not you can adjust closing timer after next step)
- > Trigger System (remove fire all zone link) allow all windows / vents to open fully. Zones will all show open (green)
- > Re-insert wire link; allow all to close. If any zones are not fully closed now adjust the zone timer to allow a longer closing time.(see DIAGRAM 1 AOVZ-01 location VR1). You can trigger Individual zones by removing just the wire link input above each zone. This will allow you to adjust the closing timer one zone at a time.

STEP 7 (installation of call points & detectors if required - See "Link trigger" on diagram)

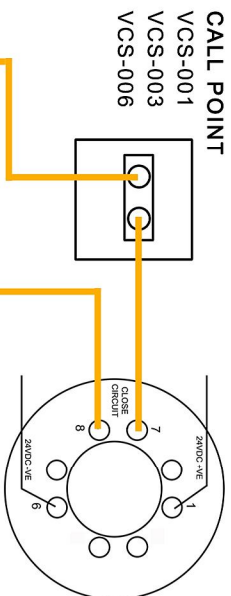
- > On the first zone to be triggered remove the wire link from the terminal marked "Link" above. This will trigger that zone and cause it to open. Insert the two wires for the trigger loop, this should then cause the zone to close. Test trigger loop.
- > Repeat for other zones.
- > If including "Fireman's Override" go to APPENDIX 1. (Then) If including "Master Zone Trigger" then go to APPENDIX 2.



DIAGRAM 1 - AOV MULTI-ZONE WIRING & INDICATION

BASIC CONNECTIONS:

LINK TRIGGER
all parts must be wired in series (a loop on 2 wires) not parallel see the example below - the final part closes the loop



ACT
Each Zone has one ACT block for connecting:
> actuator
> vent motor
open = + 24V dc
close = - 24V dc
not activated = no voltage

MASTER ZONE

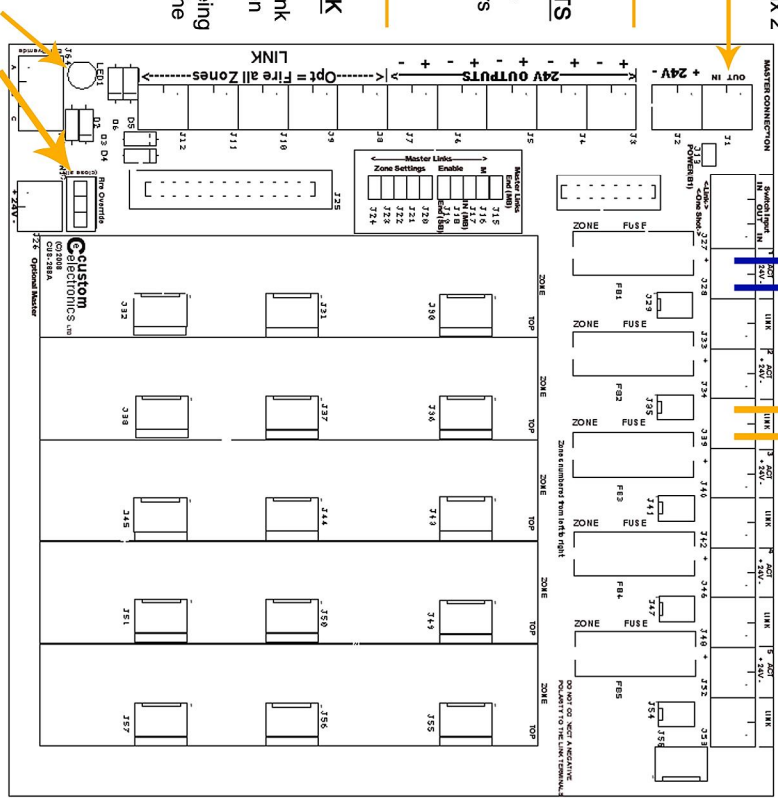
see appendix 2 for detailed setup

24V OUTPUTS

> 24V power to detectors

FIRE ALL ZONES LINK

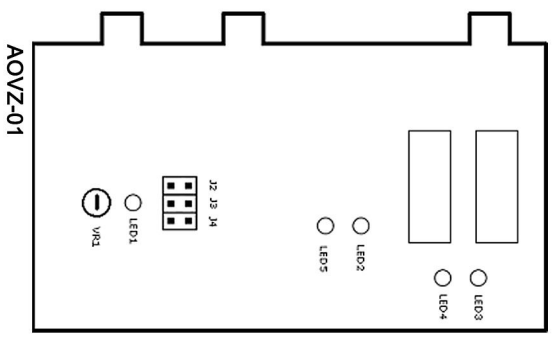
Breaking a link here will open all zones.
When not being used leave the wire links in place.



FIRE PANEL
If you are triggering a zone via a fire panel using a volt free contact use the LINK terminal. If using with a call point or detector this connection also needs to be wired in series.

MANUAL OVERRIDE

You can manually close all the zones by moving the fire override switch to the left (ACTIVE). This will illuminate LED1. **IMPORTANT > THIS IS A TOP LEVEL OVERRIDE - YOU MUST RETURN IT TO THE RIGHT FOR THE PANEL TO FUNCTION NORMALLY (NOT ACTIVE).**

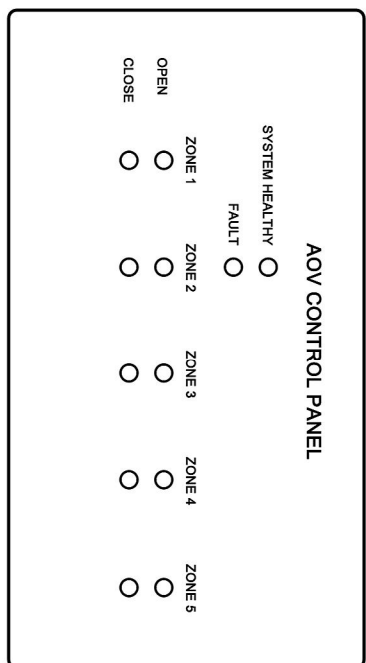


AOVZ-01 (ZONE CARD) INFORMATION:

- LED3 (GREEN) - Zone Opening (+24Vdc on ACT)
- LED4 (AMBER) - Zone Closing (-24Vdc on ACT)
- LED2 (GREEN) - Reverse Triggered
- LED5 (GREEN) - Zone Resetting / Reset
- Timer Settings: start with jumper on J4 and adjust VR1
 - J4 - 0s - 55s closing time
 - J3 - 55s - 2m closing time
 - J2 - 2m - 3m 30s closing time
- LED1 (GREEN) - Timer Active
- VR1 - timer adjustment: clockwise = less time
anti-clockwise = more time

INDICATION INFORMATION:

- OPEN = GREEN : Zone Opening
- CLOSE = AMBER : Zone Closing
- OPEN & CLOSE = OFF : Zone Reset
- SYSTEM HEALTHY = GREEN FAULT = OFF : Mains OK + Battery OK.
- SYSTEM HEALTHY = GREEN FAULT = AMBER : Mains OK + Battery FAULT or Psu FAULT
- SYSTEM HEALTHY = OFF FAULT = AMBER : Mains FAULT + Battery OK.
- SYSTEM HEALTHY = OFF FAULT = OFF : NO POWER (mains or battery)



FIREMANS OVERRIDE CALL POINT

If you require a firemans override call point on your system please see appendix 1 for wiring information.

Firemans Call Points are : VCS-004 or VCS-007

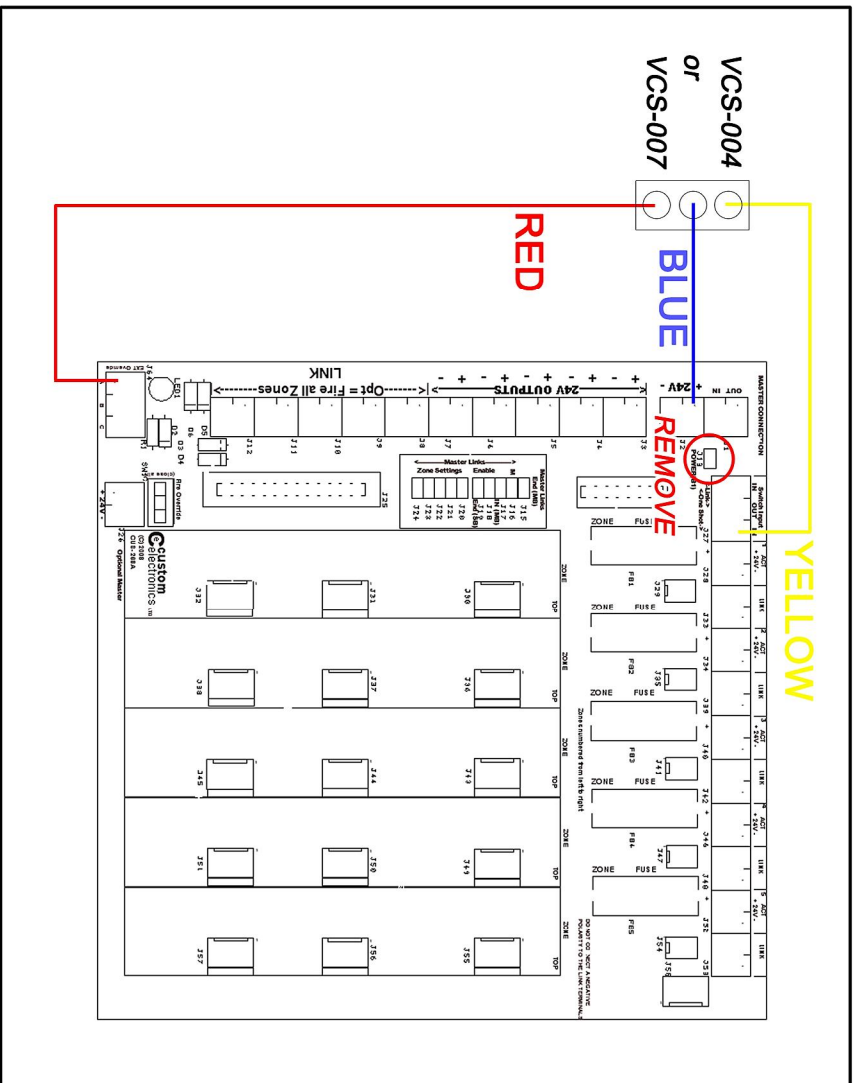
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APPENDIX 1 - Fireman's Call Point Wiring (VCS-004 & VCS-007)

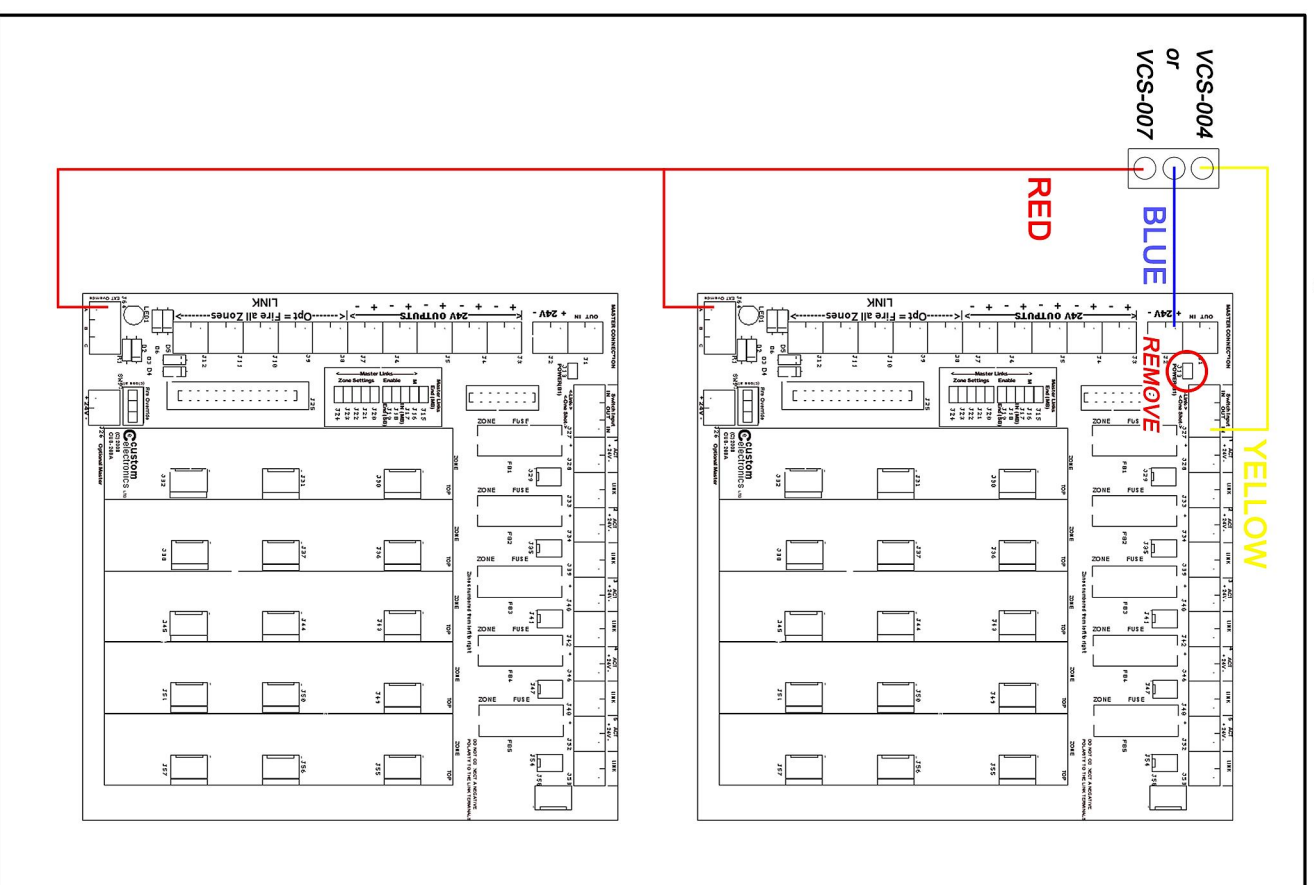
If you are including a Fireman's override wire this after first proving the system is working correctly.
Follow the diagrams below to see how it is fitted.

NOTE: Once the wires are fitted you must remove J13 for the call point to become active.

5 ZONE Wiring



10 ZONE Wiring



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NB

If continuing to APPENDIX 2 to configure MASTER ZONE
you still need to keep J13 removed to keep the Fireman's
Override Call Point active.

APPENDIX 2 - Master Zone Setup Guide (ZONE 1 triggers together with any other zone)

If you require MASTER ZONE setup assign the zones correctly then wire and test as normal. Change jumper settings to test MASTER ZONE last after you have proved the system works normally. **The MASTER ZONE is always wired as ZONE 1.** If it needs to open independently and with another zone you need ZONE 1 & ZONE 2 inputs for the MASTER ZONE.

Master Zone only (triggers ONLY when another zone is triggered)

Wire: > ZONE 1 "ACT" = MASTER Actuator/Vent > ZONE 2 & Onwards = Other Zones

Master Zone also triggered independently (will trigger separately & together with another zone)

Wire: > ZONE 1 "ACT" = MASTER Actuator/Vent > ZONE 2 "LINK" = MASTER Call Point &/or Detector > ZONE 3 & Onwards - Other Zones

Multi Zone (1-5) jumper links zone 1 master

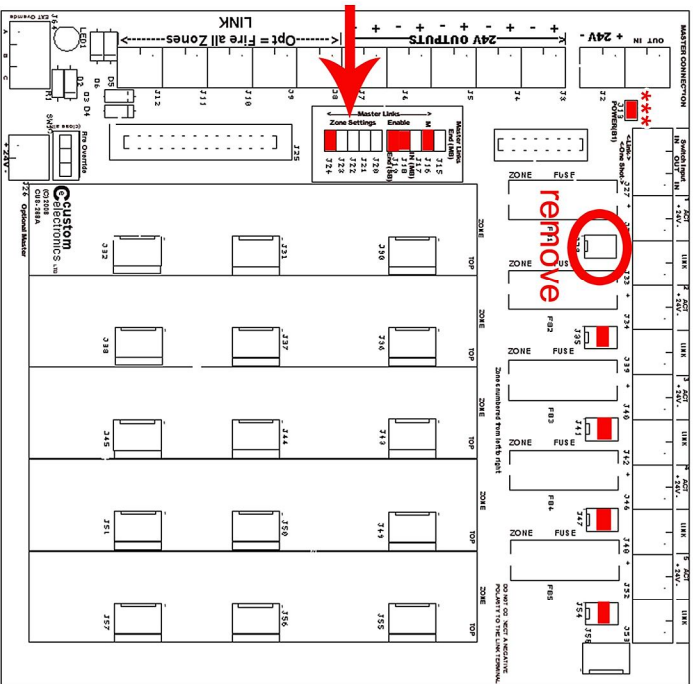
Jumper Fitted

*** ONLY if fitting VCS-004 or 007 from Appendix 1 also **remove J13.**

last zone to trigger with zone 1.

- J21 - zone 2 (zone 1-2)
- J22 - zone 3 (zone 1-3)
- J23 - zone 4 (zone 1-4)
- J24 - zone 5 (zone 1-5)

NB
This example shows any zone up to zone 5 will also trigger zone 1. If you have less zones (eg 3 zones) you must have the jumper on the very last zone card (eg J22 as this is the 3rd zone)



Multi Zone (1-10) jumper links zone 1 master

Jumper Fitted

*** ONLY if fitting VCS-004 or 007 from Appendix 1 also **remove J13.**

last zone to trigger with zone 1.

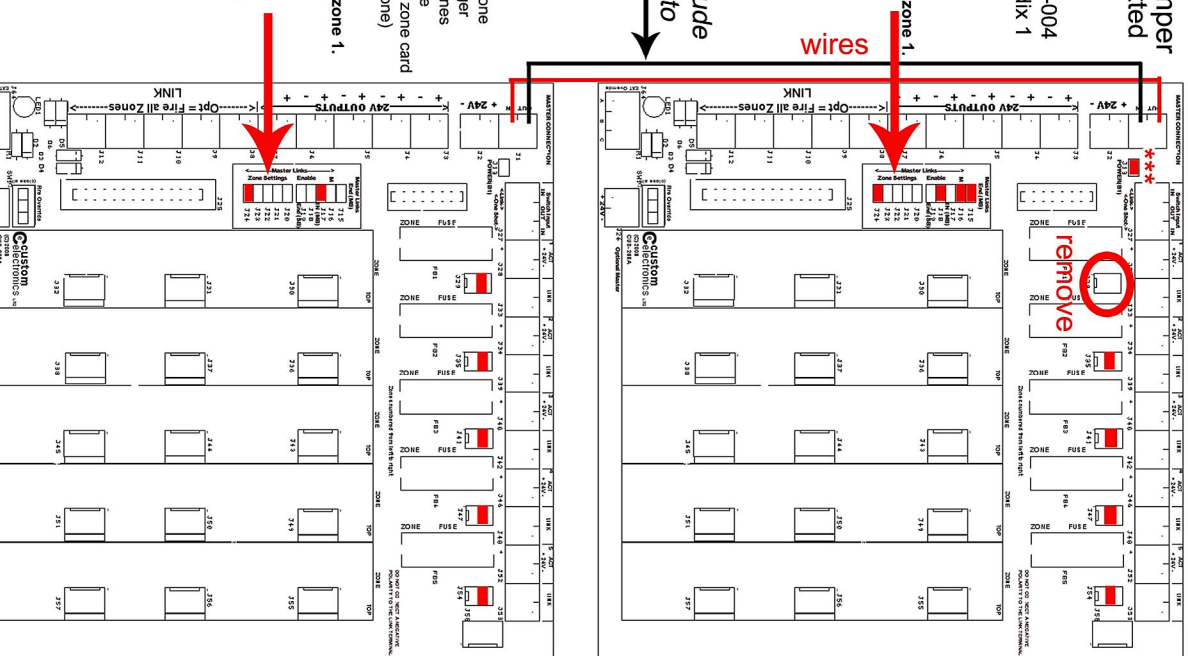
- J21 - zone 2 (zone 1-2)
- J22 - zone 3 (zone 1-3)
- J23 - zone 4 (zone 1-4)
- J24 - zone 5 (zone 1-5)

You must include these 2 wires to complete the circuit

NB
This example shows any zone up to zone 10 will also trigger zone 1. If you have less zones (eg 8 zones) you must have the jumper on the very last zone card (eg J22 as this is the 8th zone)

last zone to trigger with zone 1.

- J20 - zone 6 (zone 6)
- J21 - zone 7 (zone 6-7)
- J22 - zone 8 (zone 6-8)
- J23 - zone 9 (zone 6-9)
- J24 - zone 10 (zone 6-10)



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NB - all zones to trigger zone 1 must be in a block starting from zone 2. eg 2-4 or 2-6

Example:
If you only want zone 1 to trigger when you open zone 2-6 but you have 8 zones in total. Put your last zone jumper pin on J20 so that the final two zones will trigger alone.