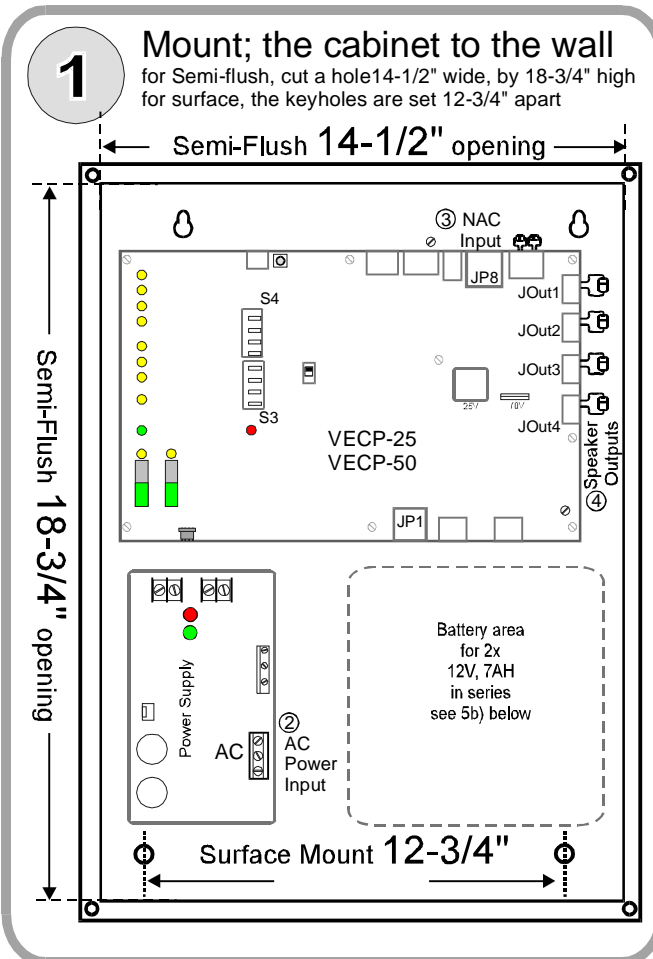


VECP-25/50 Step Installation-Wiring Diagram

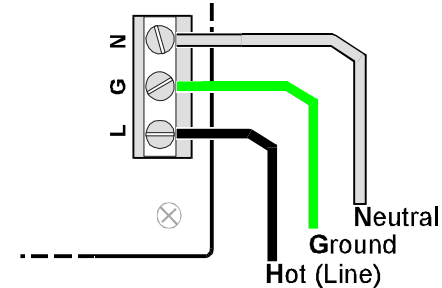
Do NOT change settings or jumpers until system is operational, the VECP is fully tested and will work out-of-the-box.

Read the manual for complete detailed installation instructions

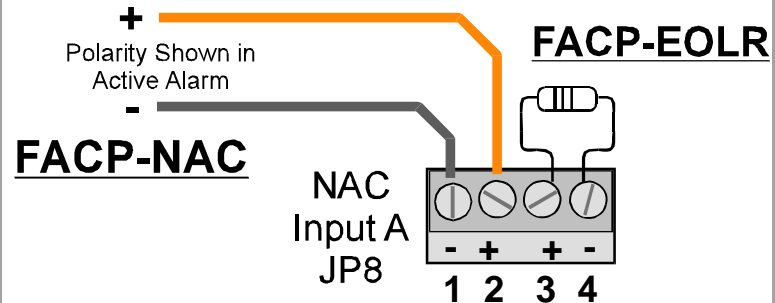
See 'Final-Setup' section to change system configuration.



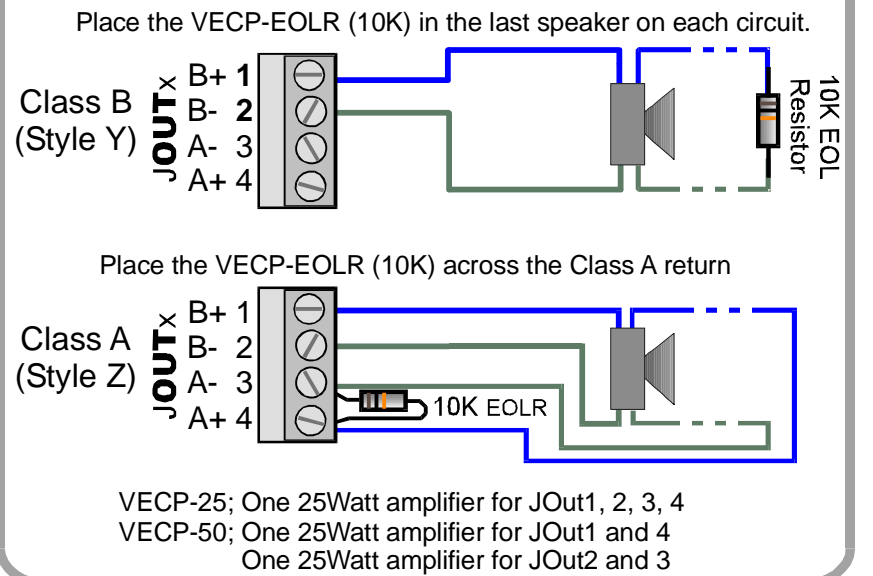
2 Connect; AC Power Attach the 120VAC line to 3 position terminal block. Use a separate knockout, and route 120VAC wiring at least 1/4" away from all power limited wiring.



3 Connect; NAC Circuit (JP8) from the FACP or Addressable control module. Trigger must be a polarity reversing, supervised, non-coded, steady, and silencable output to the VECP.



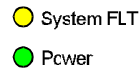
4 Connect; Speaker Circuits (JOUTx) to the appropriate OUT connectors



5 a) Apply; 120 VAC Power The Red and Green power LEDs on the power supply should light

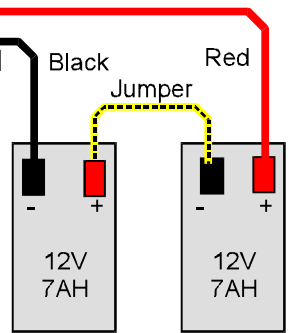


and the Green Power and Yellow System Fault LEDs on the VECP pcb should light



b) Connect; 2 x 12V, 7AH batteries in series, using the supplied jumper

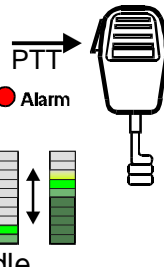
Red wire to the positive battery lead
Black wire to the negative lead



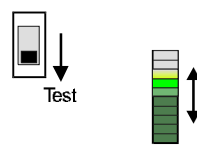
The Yellow LED should go out
And the Signal Meter(s) should now have about 5 bars lit
This could take a few seconds to respond

6 System Test

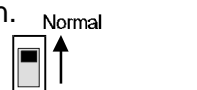
Press; PTT on Mic The Red 'Alarm' LED will light and the Signal Meter Bar(s) should go off, The Meter(s) should then vary up and down with the level of your voice. Upon releasing the PTT, the Meter Bar(s) should go back to the middle.



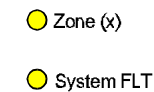
Move; Test Switch down to the 'Test' position, verify Alert tone, and Evac-message. The Meter Bar(s) will again vary with the audio intensity.



Press; PTT on Mic to verify the Local Audio 'override' function. Un-key the mic and move the Test switch back up to normal.

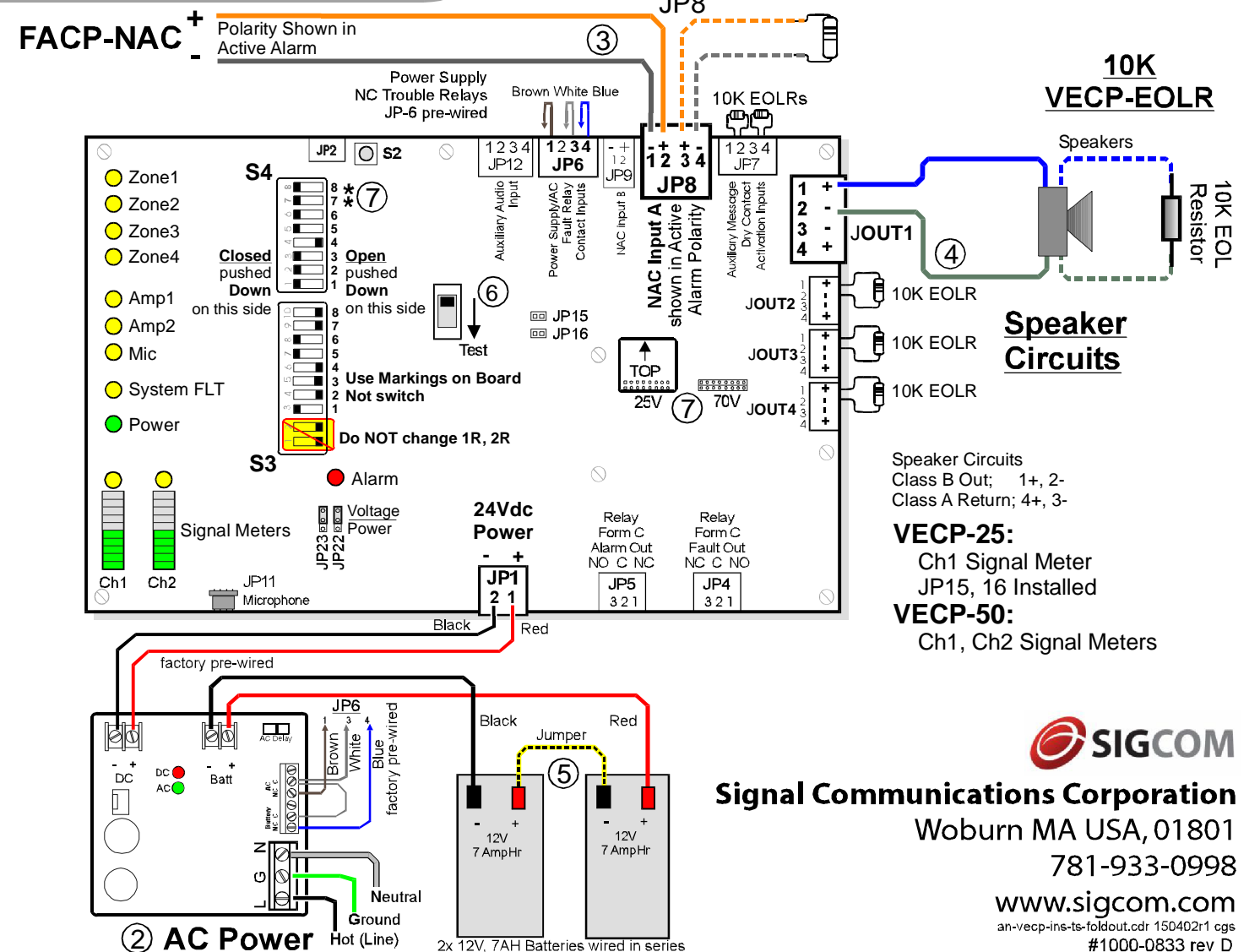


Test; Supervision by removing a speaker connection and verify that the Faults are indicated on the VECP and are reported to the FACP.



Tone Selection;
The 'Temporal Code' is selected by changing S4-7* and S4-8* to OPEN (pushed down on the right). Initial and intermediate tones can be varied and set according to the chart in the manual

7 Final Setup Speaker Voltage Selection; If and ONLY IF the system is using 70-VRMS Speakers, move JP24, 25, 26, 27 and the jumper board from 25V to 70V.



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VECP-25/50 Trouble Shooting Guide

For installation, read the other side first
Read this side, Because you DID

**change settings or jumpers before system was operational
 Or, someone has come in after installation and tried to 'fix' the system
 Read the manual (RTFM) for complete detailed installation instructions**

This is not a comprehensive trouble shooting procedure, rather it is a quick guide in response to some typical questions asked to Applications Engineering
Most troubles or Faults will turn on the yellow System FLT fault LED.
 With the System Fault light on, observe the other Fault lights to determine the problem.

This guide will look at more insidious hidden faults.
 If the problem is beyond this guide, or the determination is to repair the board, contact Customer Service or Applications Engineering for further guidance

Audio Output Level:
 There is no 'Volume Control' on the system. To raise the audio output level in any area, the 'taps' on the speakers must be changed. Confirm the new tap settings will not exceed output ratings.

Setting Temporal:
 Change S4-7* and S4-8* Down on Right (Marked *)

Setting Continuous Repeats of Message:
 Verify or change S3-1#, 2# and 3# Down on Left (Marked #)

Strobe Power:
 The VECP does NOT supply any strobe power. Although it is not recommended, up to 3Amps of strobe power from the FACP-NAC can pass through the JP8 NAC connector, to the strobes and FACP-EOLR. Strobe synchronization must be After the VECP JP8.

A System Fault Light and Power Light On
 No Signal Level / Meter Bars lit

The Signal Meter(s) should have about 1/2 scale in the standby condition.

If they are Off, a power supply fault condition may be detected, Verify AC power.

* Check to see if the two batteries are connected and that they are in series (24V). Verify that there is good voltage balance, 12volts nominally each.

* Check the connections from the Power Supply Trouble relays to the JP6 of the main board.

* Temporarily short both the connections of JP6 pins 1 to 2, and 3 to 4, could restore the meter bar indication.
 * * If shorting the JP6 connections does restore the board, then check the power supply and connections for proper operation.
 * * If the JP6 shorts do not restore the board, then there could be an onboard issue. Contact Customer Service or Tech Support for further guidance

B System Fault Light On and Power Light On
 No other fault lights or indications

The Signal Meter(s) should have about 1/2 scale in the standby condition.

If the only apparent indication of a fault condition is the System Fault light lit.

* Check the connections on JP7, in the upper right corner of the main board. There should be two 10K resistors. One across JP7 pins 1 and 2, another across pins 3 and 4. Verify placement and that they are secured into the connector.

* Completely remove the screw, in the upper right hand corner that holds the main pc board onto the back plate. Then slightly lift the corner of board off the standoff in the box. This will disconnect the 'Ground-Fault detection' from the chassis ground.

* * If the System Fault light goes out, then there is a ground fault somewhere in the system.

* * If the lights stays on, the problem could be more than this quick guide can direct. Contact Customer Service or Tech Support for further guidance.

C Amp Fault Light System Fault Light and Power Light on

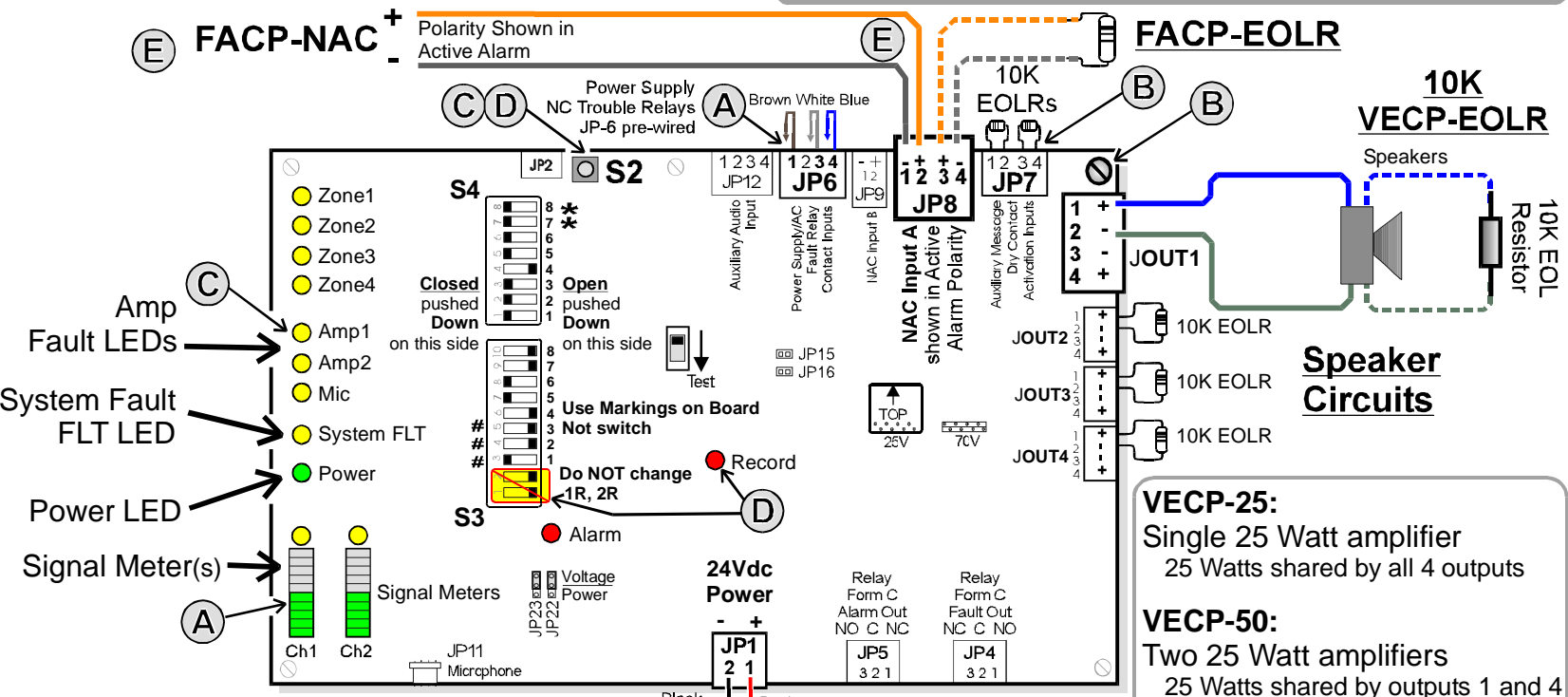
The AMP1 and or AMP2 fault lights come on when an overload of the audio amplifier(s) occurs.

Normally, if a temporary overload occurs, the amplifier will reduce the output power in a smart overload protection scheme. A longer term overload, could open an individual solid state output fuse, which will reset automatically after the load is reduced or removed for a minute or two.

* A large overload, or an amplifier failure could turn on the AMP fault lights. To test if this was transient, press and release the S2 push button near the top edge of the main board. This will do a system reset.

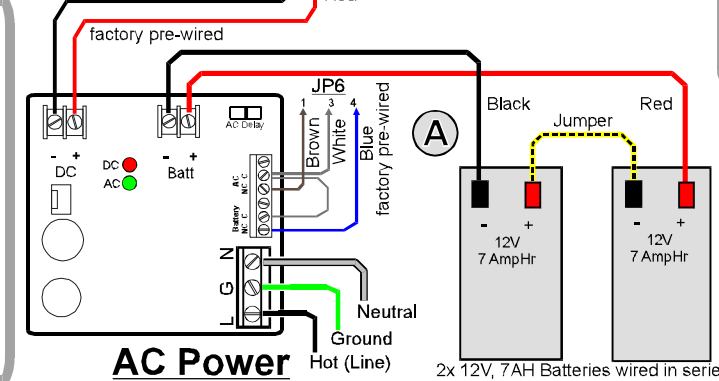
* * If then system resets back to normal, then the overload was quick, and the amplifiers are OK.

* * If the AMP fault lights come back after the reset, then the audio outputs could be damaged. Contact Customer Service or Tech Support for further guidance.



E Tone but no message

If the VECP is playing the alert Tone when tripped, but does not start the message. It could be interrupted by a non-steady trip voltage. The NAC Input on JP8 must be a Steady signal, non-coded with no Sync pulses.



VECP-25:
 Single 25 Watt amplifier
 25 Watts shared by all 4 outputs

VECP-50:
 Two 25 Watt amplifiers
 25 Watts shared by outputs 1 and 4
 25 Watts shared by outputs 2 and 3
 25 Watts maximum from any output

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