

Quick-Start Installation Procedure

Multi-Zone Telephone Paging & Background Music Interface

Model VA-TMZ



IMPORTANT! Follow These Instructions

The VA-TMZ paging and music interface has been pre-programmed to provide standard 12-zone paging and all-call paging through VoiceArrest™ controllers and/or amplified paging speakers. Additional programming is only necessary if you wish enhance or modify this basic configuration.

>>> Do not apply power to the VA-TMZ Interface until instructed to do so in Step 3F <<<

Step 1. Configure each zone output for the desired music source. You may skip this step if a music source is not being used. The VA-TMZ comes configured with all zones connected to music source 'A'. To reconfigure a zone, remove power from the unit then remove the zone module by removing the 2 screws on the face of the module and carefully pulling the module from its socket. Each zone may be set to either music source 'A', 'B', or "None" by selecting the appropriate jumper setting as shown in Figure 1.

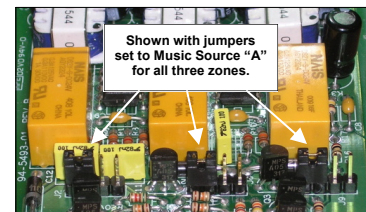
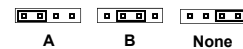


Fig. 1 Zone Module Circuit Board



Step 2. Connect VoiceArrest™ Controllers - or - Amplified Speakers to zone outputs.

Zone Output VoiceArrest™ Controller

T → Signal +
 Shield (not used)
R → Signal -

Zone Output Amplified Speaker

T → Tip
R → Ring
+24VDC → Gnd
-24VDC → -24V

Step 3. Initial level settings and system testing (do this prior to connecting to the phone system).

Important Note: All VoiceArrest™ Controllers must be on and set to their proper operating levels before setting the paging and background music levels. Note also that the paging and music levels may need to be re-adjusted after connecting to the phone system.

A. Set the following level adjustments to their mid-range (center) position.

- Zone Output Levels
- Music A and Music B Input Levels
- Tone Level
- Night Ring Level



Zone Level



Music Level



Tone Level



Night Ring Level

B. Set the following level adjustment to its fully clockwise (maximum) position.

- Limiter Threshold



Limiter Threshold

C. Set the PGM/RUN switch to the "RUN" position.



D. Configure the interface switches for a Loop Start Trunk Port interface as shown in step 4B.

E. Connect a standard single-line telephone or test set to the Trunk/Page Port jack.

Instructions continued on page 2 . . .

Step 3. (continued) Initial level settings and system testing.

- F. **Apply power to the VA-TMZ interface.** Power LED should be on.
- G. **Adjust each zone output level.** Take the telephone or test set off-hook. You will hear to short tones. Enter the 2-digit zone number (01 thru 12, or 00 for All-Call) for the zone you want to page. The zone activity LED will light up for the zone selected. Speak into the handset at a normal level and adjust each zone output level control to the desired paging level for each zone.
- H. **Adjust the LIMITER THRESHOLD setting.** Start with the control in the fully clockwise (maximum) position. While speaking into the handset at a normal level, slowly turn the control counter-clockwise until the limiter activity LED begins to consistently flash as you speak.
- I. **Connect the music source.** Connect the music source to the appropriate music inputs (A, B or both) and adjust the music input level control for the desired background music level.

Step 4. Connecting the phone system to the VA-TMZ Interface.

This step of the installation should be performed by a qualified telecom installer familiar with the particular phone or PBX system to be interfaced with. The three previous steps must be completed before proceeding.

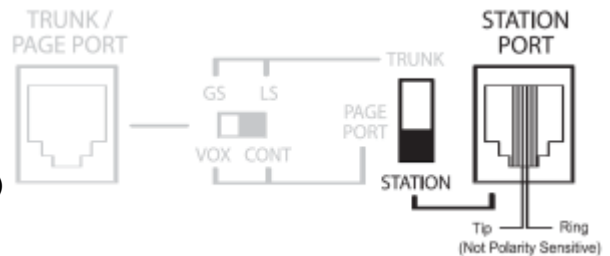
Important! Always power interface down and back up after changing interface switch settings.

Note: Phone system must provide DTMF signaling to the interface port in order for zone paging to operate.

A. Analog Station Port Interface

(Refer to page 7 on the installation manual for a complete description of this interface.)

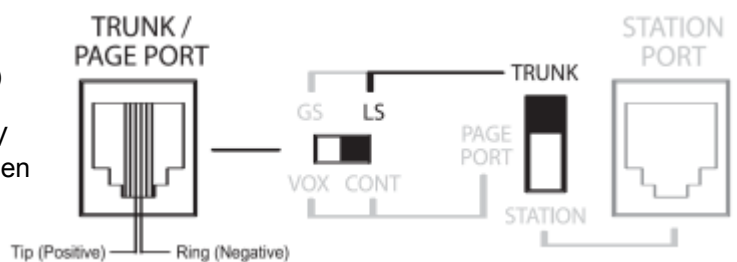
In this configuration, the unit answers immediately upon detecting a ring. CPC (Calling Party Disconnect) or Loop Disconnect must be enabled on the CO line or analog station line connected to this port.



B. Loop Start Trunk Port Interface

(Refer to page 8 on the installation manual for a complete description of this interface.)

In this configuration, the unit supplies a 24V talk battery and loop current detection. When the unit detects a loop resistance between Tip and Ring, it activates. The unit follows the status of the trunk port. The Tip and Ring have a specific polarity as shown above.



C. Page Port Contact Interface

(Refer to page 9 on the installation manual for a complete description of this interface.)

In this configuration, the unit responds to contact closure shorting the closure source to its return. When the short is removed, the page ends.

