This guide explains how to install the AVS PC board assembly in a VISTA series residential control cabinet when using the AVS addressable mode. Please refer to the control’s Installation and Setup Guide and the instructions included with this module for detailed information, or if using a control not compatible with the AVS addressable mode.

Compatibility Note: When using addressable mode, the AVS is intended to work with controls having the following firmware versions: VISTA-20P series = version 7.0 or higher; VISTA-21iP series = version 3.0 or higher; VISTA-15P series = version 6.0 or higher.

1. MOUNT THE ASSEMBLY
Refer to the diagram at right.

a. Position the mounting plate/PC board assembly in the bottom of the control’s cabinet.
b. Slide the mounting plate to the right so that the plate’s left-hand tang slides under the cabinet’s tie-wrap loop.
c. Secure the assembly to the cabinet using the two self-tapping screws provided.
d. Mount the control’s PC board if not already mounted; follow the control’s instructions for mounting the board (and optional RF Receiver board, if used).

BATTERY NOTE: When using a 7AH battery, mount the battery vertically on the base unit, at least 3 feet from the cabinet (or away from the associated call point).

2. MAKE THE AVS WIRING CONNECTIONS
Refer to the diagram below.

AVS to Panel Wiring

a. ECP Connection:
   IMPORTANT: The AVS should be the only device connected to the control’s ECP terminals. Connect all other control panel ECP devices to the AVS ECP terminals. Make sure the current drain of connected ECP devices does not exceed the control’s maximum. Using the red, green, and yellow wires of the supplied harness, connect the ECP terminals from the control (ground, aux, data in, data out) to the Panel terminals on the AVS base unit.
b. Phone Connection:
   (use a Direct Connect cord)
   - Connect red and green wires to the control’s Incoming phone terminals.
   - Connect brown and gray wires to the base unit’s Handset terminals.
   - Connect the control’s Handset terminals to the base unit’s Incoming Phone Line terminals.

AVS to Station Wiring

a. Mount the Station according to its instructions.
b. Connect the base unit’s AAV terminals to the station’s AAV terminals, routing the wires through a cabinet knockout and through the opening in the station’s case or side cutout.
c. If connecting an adjacent keypad to the station, connect the station’s Keypad header to the keypad’s connection terminals.

AVS to GSMV4G/GSMX4G Module Connection

a. If using a GSMV4G or GSMX4G module for 2-way voice operation, install the module according to its instructions. NOTE: The module must be mounted within 3 feet of the control.
b. Connect the audio cable (not supplied) from the GSMV4G or GSMX4G module to the Audio connector on the AVS board.
c. Complete all other GSMV4G/GSMX4G wiring following the instructions included with that module.

Base Unit LED Functions

- **Stand On**: Base unit is powered; normal mode
- **Off**: Phone ringing for callback
- **Rapid Flash**: Program mode; waiting for callback code entry
- **Slow Flash**: 2-Way Voice mode
- **Double Flash**: Listen mode or Talk mode

(CONTINUED ON OTHER SIDE →)
3. COMPLETE ANY OTHER NEEDED CONTROL PANEL WIRING CONNECTIONS
Refer to the control's Installation and Setup Guide. Make all appropriate control panel wiring connections (sensors, other devices, etc.) if not already done. Make all phone line connections to the RJ31X terminals as shown on the other side.

4. PROGRAM THE CONTROL PANEL
Refer to the control’s Installation and Setup Guide. The following summarizes the programming steps for enabling AVS operation.

a. Program the control panel according to its instructions.
b. Set data field +91 Option Selection for AAV operation.
c. Use one of the control’s AVS Quick Program commands as follows:
   • installer code + [#] + 0 + 3: turn on AVS operation without panel sounds on the AVST speaker
   • installer code + [+] + 0 + 4: turn on AVS operation and enable panel sounds on the AVST speaker

IMPORTANT: When either Quick Program command is used, certain output functions (+80 mode) and output relays (+79 mode) are automatically programmed and are no longer available for other control panel purposes. In addition, protection zone 24 (V15P) or 48 (V20P/V21iP) and device address 08 (V15P) or address 11 (V20P/V21iP) are also automatically programmed for AVS operation and not available for other purposes. Refer to the control’s instructions for details of the automatically programmed functions.

To undo the Quick Command programming, use the following commands:
   • installer code + [+] + 0 + 5: remove all options that were set if [+]+03 quick command was performed
   • installer code + [+] + 0 + 6: remove all options that were set if [+]+04 quick command was performed

d. Use data field +55 Dynamic Signaling Priority to select the desired reporting paths (phone line and/or GSMV4G or GSMX4G) and path for AAV communication. Refer to the control’s instructions for details of these fields.

5. PROGRAM THE AVS
Refer to the AVS Installation and Setup Guide for additional information and for the procedure for setting remote station ID addresses.

a. Set the DIP switches.
   There are two DIP switches on the base unit. The 4-position switch sets the module’s mode; the 5-position switch sets the module’s device address.

   Mode DIP Switch: 
   - Program mode (for callback code) / Normal mode
   - OFF when programming of callback code is complete.

b. Program the Callback Code (applies to phone line only):
Program the 6-digit central station callback code as follows:
1. Set DIP switch 2 to the ON position to enable Callback code programming mode. The system generates a beep every 10 seconds at remote stations to indicate this mode is enabled.
2. Have the central station operator call the premises. The system will go off-hook after it detects a single telephone ring. It will issue a continuous command-prompt beep to the operator and the LED will flash rapidly indicating that it is waiting for a 6-digit access code to be entered. If no code digits are entered within 10 seconds, the system will hang up.
3. Have the central station operator enter the 6-digit access code. After the system has detected the access code, it will issue a single beep to the operator indicating that it is ready for the central station operator to re-enter the code for confirmation.
4. Have the central station operator re-enter the code. If the two entered codes match, the system will issue two beeps and then hang up. If both codes do not match, or if an invalid key is pressed, the system will issue an error tone (high-frequency beep followed by a low-frequency beep). In these cases, the system will clear all previously entered digits and wait for a new code to be entered.
5. After the code has been properly programmed, reset DIP switch 2 to the OFF position to disable callback code programming mode. The system will stop generating beeps at inside remote stations.

IMPORTANT: Avoid programming an access code that ends with the digits “1” or “2”. This will prevent the system from unexpectedly entering Talk or 2-way conversation modes if the last digit of the access code is accidentally pressed twice while entering the code to start a 2-way voice session.

6. 2-WAY VOICE OPERATION – TELEPHONE COMMANDS

<table>
<thead>
<tr>
<th>Operation</th>
<th>Telephone Keys</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initiate voice session in low-volume Listen mode.</td>
<td>6-Digit Access Code</td>
<td>Call premises and enter code.</td>
</tr>
<tr>
<td>Select Talk mode.</td>
<td>1</td>
<td>Press momentarily.</td>
</tr>
<tr>
<td>Select 2-way voice mode.</td>
<td>2</td>
<td>Press momentarily.</td>
</tr>
<tr>
<td>Select Listen mode.</td>
<td>3</td>
<td>Press momentarily. Repeat to toggle between low, mid and high volume.</td>
</tr>
<tr>
<td>Select next inside station and disables all other stations.</td>
<td>4</td>
<td>Press momentarily. Repeat to select next inside station in sequence again.</td>
</tr>
<tr>
<td>Re-initialize 5-minute timeout.</td>
<td>7</td>
<td>Press momentarily.</td>
</tr>
<tr>
<td>Clear key buffer.</td>
<td>#</td>
<td>Press momentarily.</td>
</tr>
<tr>
<td>End voice session.</td>
<td>99</td>
<td>Enter both digits.</td>
</tr>
<tr>
<td>Select station number “n” where “n” is 1-3; disables all other stations.</td>
<td>#n</td>
<td>Enter all three digits.</td>
</tr>
<tr>
<td>End 2-way voice session, but open 5-minute callback window (applicable for phone line connection only; not applicable for GSMV connection to panel).</td>
<td>88</td>
<td>Enter both digits.</td>
</tr>
<tr>
<td>Start voice session in low-volume Listen mode (immediate mode only. Entry of valid access code starts the session in callback mode.)</td>
<td>*</td>
<td>Press *.</td>
</tr>
</tbody>
</table>

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