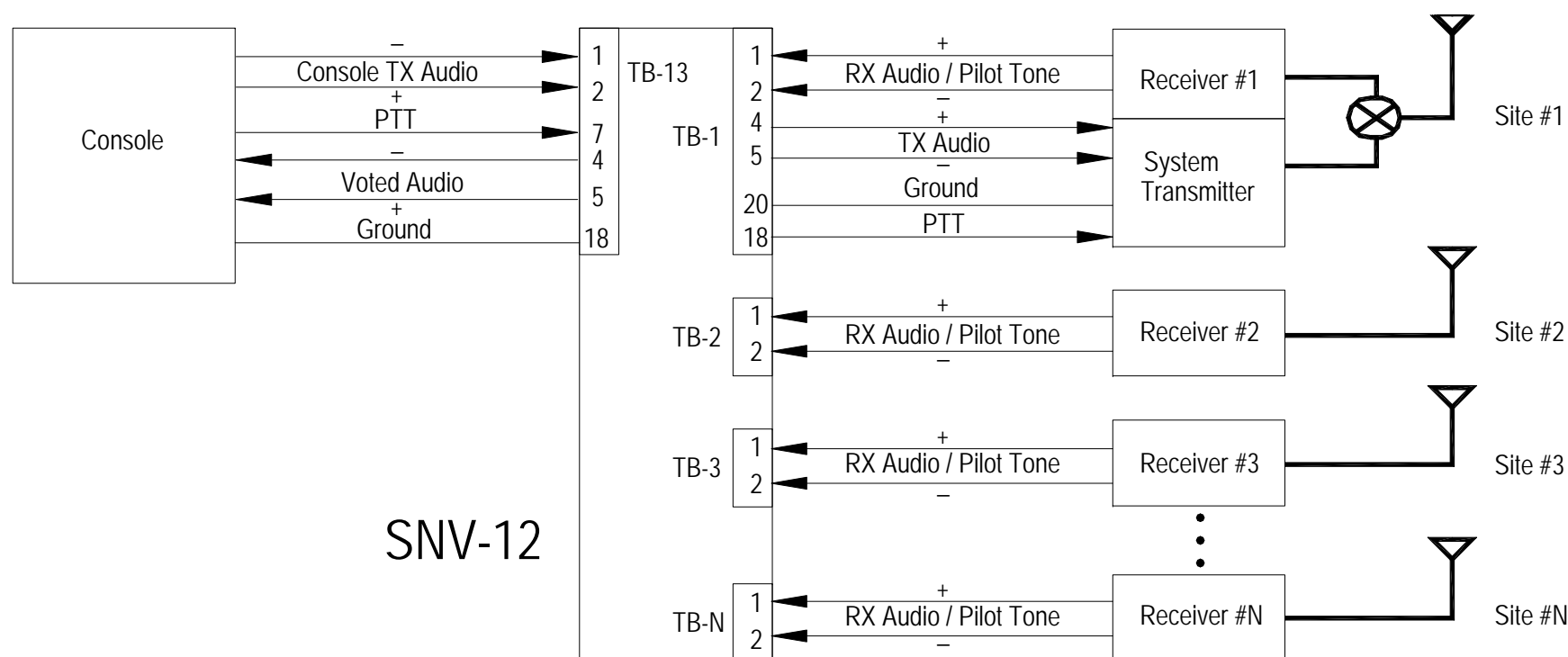


## SNV-12 Voter Quick Start Guide

This Quick Start Guide describes a typical SNV-12 installation with multiple receivers, a single transmitter, and a dispatch console. The SNV-12 voter can be set up for a wide variety of other system configurations; please refer to the manual for advanced capabilities and options.

The SNV-12 is configured and adjusted at the factory for the following:

- FM receivers (use line audio, not discriminator audio)
- 1950 Hz pilot tone from all receivers (the PTG-10 Pilot Tone Generator is available from Raytheon)
- E&M Console keying input to voter (relay closure to ground or low level logic input signal activates the voter's PTT input)
- Hard-wired transmitter keying output (open collector transistor pulls transmitter PTT low; relay contact closure optional – see page 2)
- Full Duplex (each SVM module can simultaneously transmit and receive)
- Repeat Mode is enabled, so voted audio is retransmitted via SVM module #1
- Console Priority is selected, so transmissions from the dispatcher will preempt retransmission of voted audio
- All audio is 600 ohm balanced; input/output audio levels are initially set to -10dBm



## *SNV-12 Voter Quick Start Guide*

### **Basic Installation Instructions**

Refer to the SNV-12 manual for more complete instructions and explanations of alternate configurations and advanced features.

- 1) **Unpack** - Refer to Table 1-2 (Equipment and Accessories Supplied) and the Installation Section of the manual.
- 2) **Pilot Tone** - For 2175 Hz pilot tone (rather than 1950 Hz), change switch SW2-1 from "1" to "0" on each SVM module that uses 2175 Hz. If a receiver's hardwired COR (Unsquench) output is used, connect to terminal 13 of the SVM-2 terminal block. Connect a ground to terminal 7.
- 3) **Transmitter Keying** - If a relay contact closure to ground is needed, change JP4 of SVM-2 #1 to pins 2&3 "E&M." If EIA keying tones are used to key the transmitter, change CIM module switch SW2-1,2,3 from "0,0,0" to "1,1,1."
- 4) **Console Keying** - If EIA keying tones will be sent from the console to the voter, change CIM module switch SW2-6 from "0" to "1."
- 5) **TX / RX Site Connections** - The transmit site must be connected to SVM-2 #1, which resides in the left most slot as viewed from the front of the voter. SVM-2 #1 interfaces its transmitter and receiver via rear panel terminal block TB1:  
Audio from receiver: use TB1 terminals 1(+) & 2  
Audio to transmitter: use TB1 terminals 4(+) & 5  
PTT output to transmitter: use TB1 terminal 18 (not needed if EIA keying tone output is used)  
Ground to transmitter: use TB1 terminal 20
- 6) **RX Site Connections** - Connect the inputs to the SVM modules via the rear panel TB2 through TB12:  
Audio from receiver site 2: use TB2 terminals 1(+) & 2  
Audio from receiver site 3: use TB3 terminals 1(+) & 2  
⋮  
Audio from receiver site 12: use TB12 terminals 1(+) & 2
- 7) **Console Connections** - The console interfaces the SNV-12 CIM module via rear panel TB13:  
Console TX audio to Voter: use TB13 terminals 1 & 2(+)  
Voted audio to the console: use TB13 terminals 4 & 5(+)  
PTT input to Voter: use TB13 terminal 7 (not needed if EIA keying tone input is used)  
Ground to Voter: use TB13 terminal 18
- 8) **Connect Power** - 110 VAC or 12 VDC. When power is applied, the unit will self-test. The CPM-1 Fault LED will flash until the unit is fully ready to begin operation. The unit may also be set for 220 VAC; see the Installation Section of the manual for details.
- 9) **Adjust Audio Levels** - RX audio at each SVM must be adjusted as detailed in the Installation Section of the manual. TX audio must be set for proper transmitter operation. If a console is used, its audio to the voter's CIM console TX audio input must also be adjusted, and the proper Voted Audio output level set from the SNV-12 to the console.