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**The Weather Star® Jr  
Audio Weather Alert Generator  
Installation and Testing Guide**



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Installation and Testing Guide

## ***Weather Star® Jr Audio Weather Alert Generator***

### **Section 1: System Description**

The Audio Weather Alert Generator is triggered by the closing of The Weather Star® Jr's Weather Warning contact closure causing the **Start** terminal on the Audio Weather Alert Generator to ground.

A ground terminal is positioned next to the **Start** terminal. The audio output is active, balanced and capable of driving a 600 Ohm load to +14dBm or better. The audio output is adjusted via the potentiometer located on the circuit board near the right side of the generator. The generator features an optoisolator protected Star input. The program audio loop is passive so that an equipment failure should not disrupt regular program audio.

## Section 2: Installation

Figure 1 shows a block overview of the Weather Star Jr. and the Audio Weather Alert Generator.

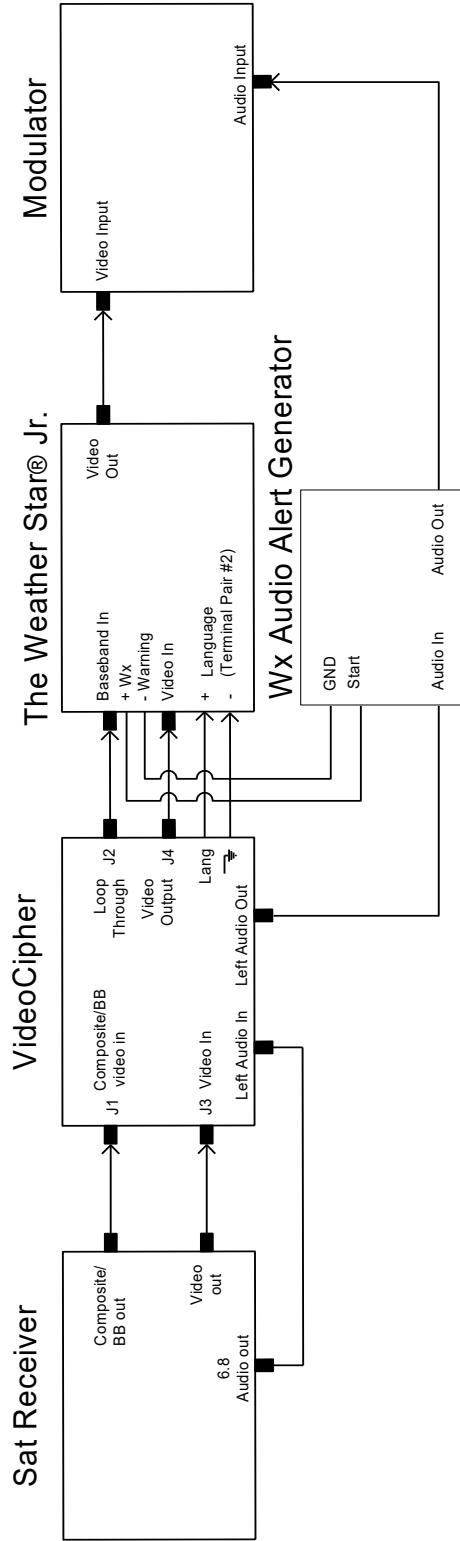
**Note:** You do not need to power down the Weather Star Jr. to install the Audio Weather Alert Generator.

To install the Audio Weather Alert Generator, complete the following steps:

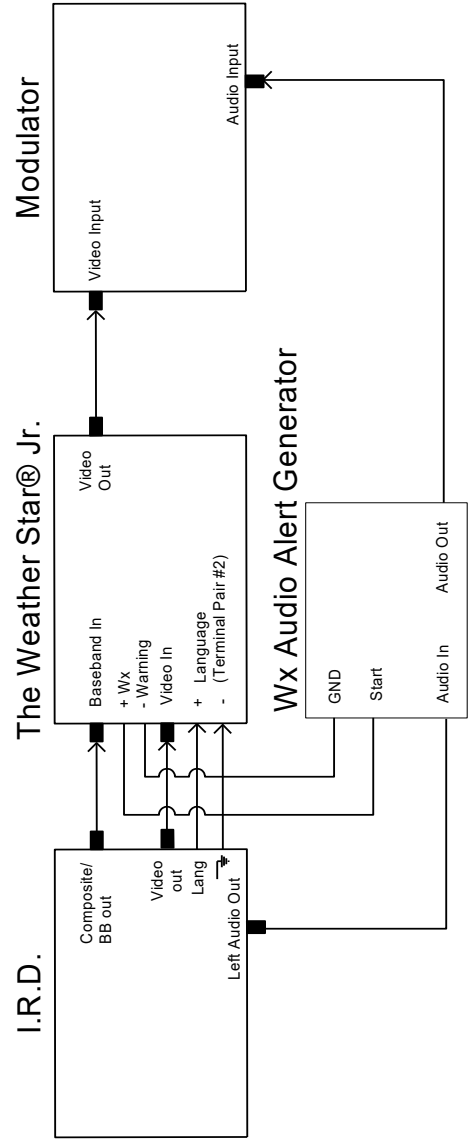
<input checked="" type="checkbox"/>	Step	Instructions
<input type="checkbox"/>	1	Disconnect the Audio In wires from the Channel Modulator or the Commercial Insertion equipment.  These wires originate from the Left Audio Output of the IRD or VideoCipher.
<input type="checkbox"/>	2	Connect the Left Audio Output wires from the IRD or VideoCipher to the Audio Input pins (see Figure 2) of the Audio Weather Alert Generator.
<input type="checkbox"/>	3	Connect the Audio Output pins of the Audio Weather Alert Generator to the Channel Modulator or Commercial Insertion Equipment.
<input type="checkbox"/>	4	Connect the <b>GND</b> pin of the Audio Weather Alert Generator to the Weather Warning – pin on the back of the Weather Star Jr. (see Figure 3).
<input type="checkbox"/>	5	Connect the <b>Start</b> pin of the Audio Weather Alert Generator to the Weather Warning + pin on the back of the Weather Star Jr. (see Figure 3).
<input type="checkbox"/>	6	Connect the power adapter to the PWR pins of the Audio Weather Alert Generator (see Figure 2).
<input type="checkbox"/>	7	Mount the Audio Weather Alert Generator directly under the Weather Star Jr.  Do not mount the Audio Weather Alert Generator on top of the Weather Star Jr. or you will restrict airflow.
<input type="checkbox"/>	8	Plug the Audio Weather Alert Generator into an AC power source (14 to 20V).  The Audio Weather Alert Generator will also accept a DC power source. The Red LED on the front of the Audio Weather Alert Generator (see Figure 4) will light. This indicates power to the unit.

The Audio Weather Alert Generator is ready to be tested.

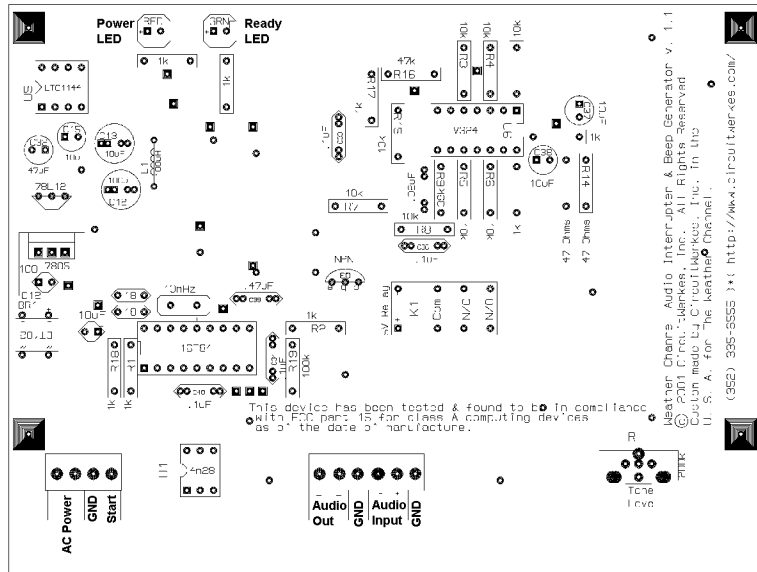
Standard Connections Using A Separate Receiver and VideoCipher®



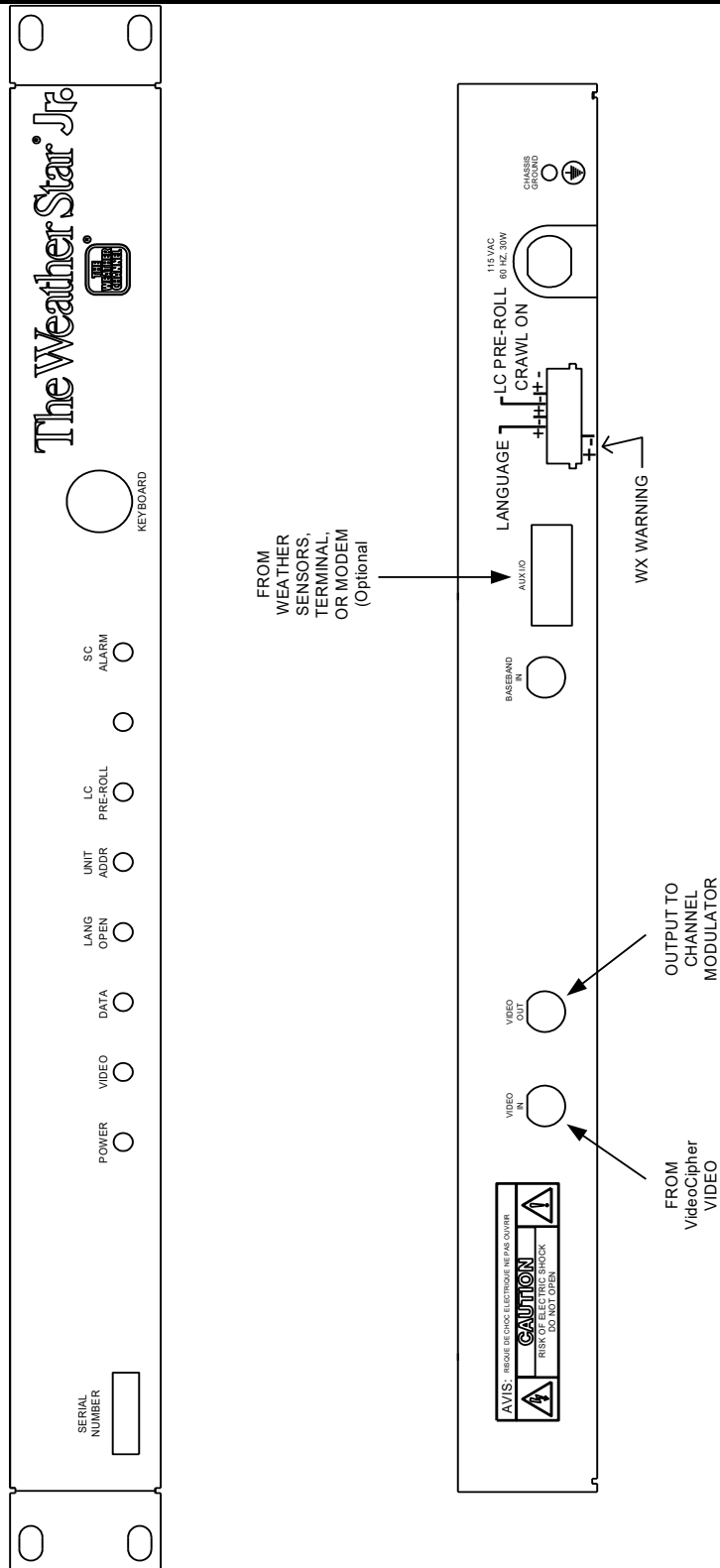
Standard Connections Using An Integrated Receiver/Descrambler (I.R.D.)



**Figure 1. Installation Block Diagram**



**Figure 2. Audio Output/Input**



**Figure 3. The Weather Star Jr. Front and Rear Panels**



**Figure 4. Red LED is Lit Indicating Power is On**

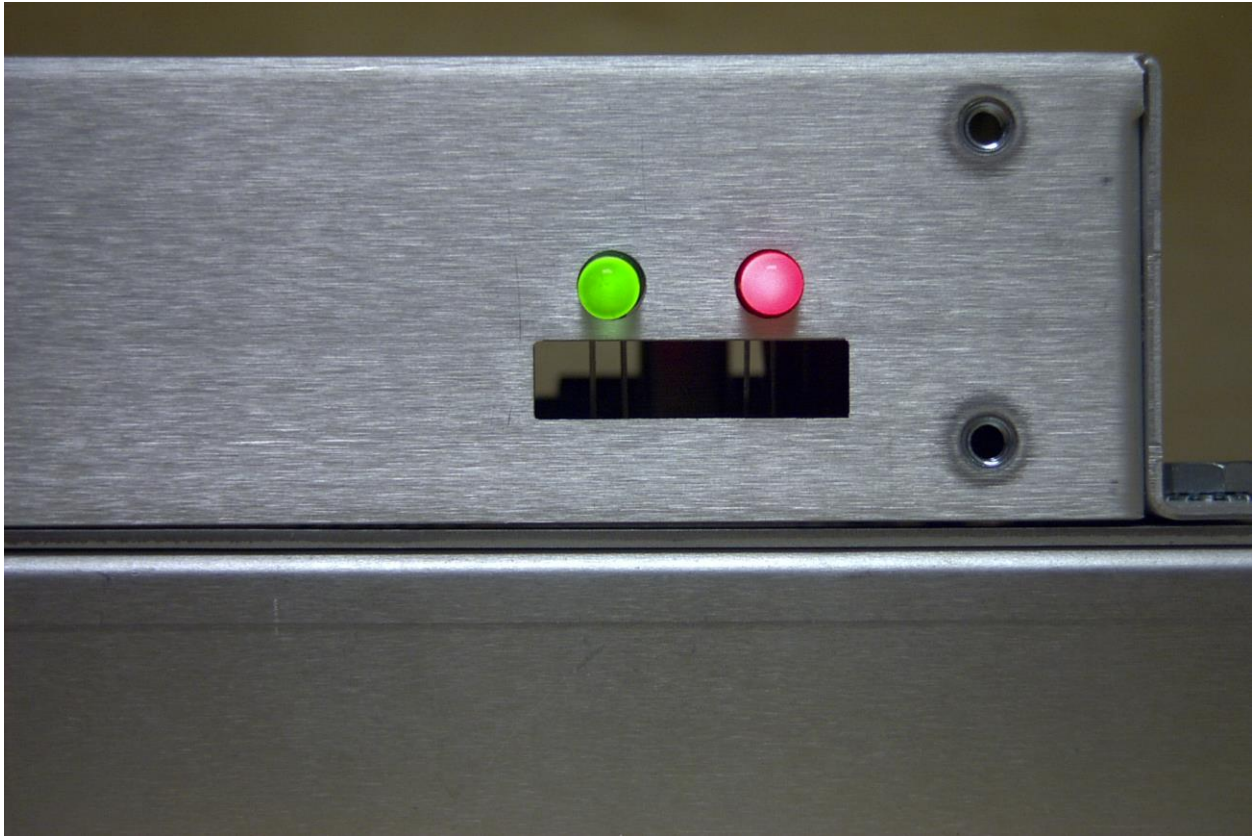
### Section 3: Testing

To test the Audio Weather Alert Generator, complete the following steps:

<input checked="" type="checkbox"/>	Step	Instructions
<input type="checkbox"/>	1	Attach the Weather Star Jr. keyboard to the front of the unit (see Figure 3).
<input type="checkbox"/>	2	Enter diagnostic mode by pressing [ALT] + [F10] on the keyboard.  On the bottom of The Weather Channel's video output, you will see a blue box containing alphanumeric text.
<input type="checkbox"/>	3	Locate the RLYS section on the blue box.  There are four relays and the normal display is: 0100.
<input type="checkbox"/>	4	Press [F1] on the keyboard.  The RLYS display should change to: 1100. The Green LED on the Audio Weather Alert Generator will light, and you will hear an audio beep overriding The Weather Channel's audio (see Figure 5).
<input type="checkbox"/>	5	Press [F1] again.  The display will change to: 0100 and the audio beep will stop.
<input type="checkbox"/>	6	Press [ALT] + [F10] to exit diagnostic mode.  The blue box on the video output will also disappear.

You have now completed the installation and testing of the Audio Weather Alert Generator. The next time a weather warning crawl appears on the screen, the audio beeps will alert your viewers at the start of the warning.

If you do not hear the audio beeps or have other questions, contact The Weather Channel Solution Center at 1-800-554-7354 option #1 or email us at: [StarOps@weather.com](mailto:StarOps@weather.com).



**Figure 5. Red LED is Lit; Green LED is Lit Indicating Tone Generator is Active.**