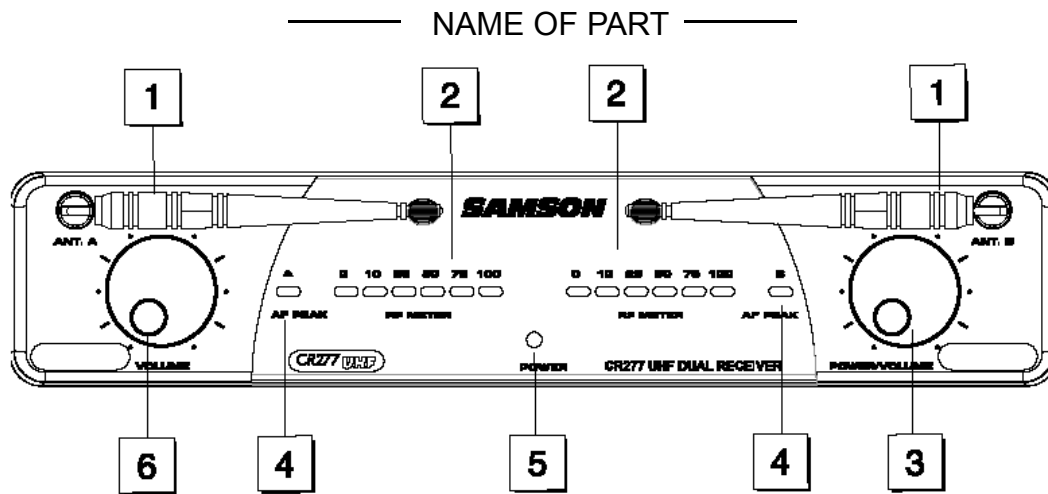
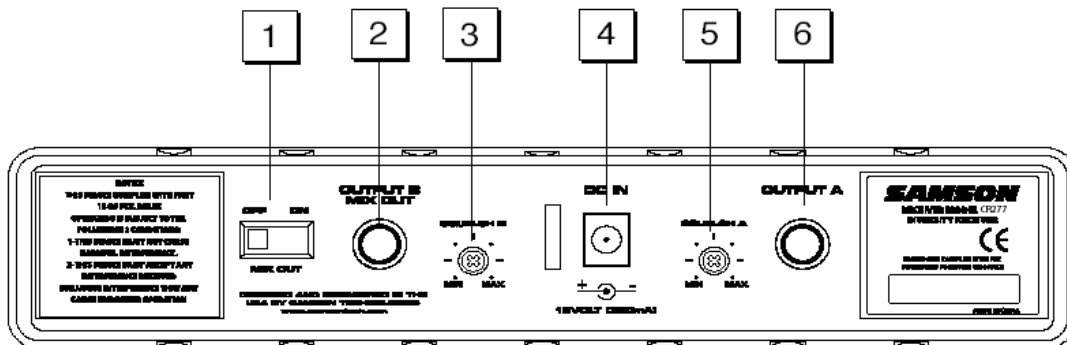


Operation description



- 1: Antennas (Channels A and B)
- 2: RF (Radio Frequency) Level meter
- 3: Volume (Channel B) / Power switch
- 4: Audio PEAK LED
- 5: Power LED
- 6: Volume control (Channel A)



- 1: MIX OUT switch
- 2: OUTPUT B / MIX OUT
- 3: Squelch B control
- 4: DC input
- 5: Squelch A control
- 6: OUTPUT A

Front panel :

1: Antennas (Channels A and B) - The antenna mountings allow full rotation for optimum placement. In normal operation, both Antenna A (the antenna on the left) and Antenna B (the antenna on the right) should be placed in a vertical position. Both antennas can be folded inward for convenience when transporting the CR277. See the "Setting Up and Using the Concert Series System" section on page 6 in this manual for information about antenna installation and positioning.

2: RF (Radio Frequency) Level meter - This "ladder" display (similar to the VU bar meter used on audio devices) indicates the strength of the incoming radio signal. When the "100%" segment is lit, the incoming RF signal is fully modulated and at optimum strength. When only the second most left-most "10%" segment is lit, the incoming signal is at just 10% of optimum strength. If no segments are lit, little or no signal is being received. See the "Setting Up and Using the Concert Series System" section on page 6 in this manual for more information.

3: Volume (Channel B) / Power switch - Use this to turn the CR277 power on and off. When the receiver is on, the Power LED is lit. The control knob sets the level of the audio signal being output through the Channel B output jack on the rear panel (see #2 on page 4 in this manual). Reference level is obtained when the knob is turned fully clockwise (to its "10" setting).

4: Audio PEAK LED - When the LED is lit, the signal is overloading and the HT7's input Level adjustment must be attenuated. See the "Setting Up and the Concert Series System" section on page 6 in this manual for more information.

5: Power LED - When the receiver is on, the red Power LED will illuminate.

6: Volume control (Channel A) - This knob sets the level of the audio signal being output through the Channel A output jack on the rear panel (see #6 on page 4 in this manual). Reference level is obtained when the knob is turned fully clockwise (to its "10" setting).

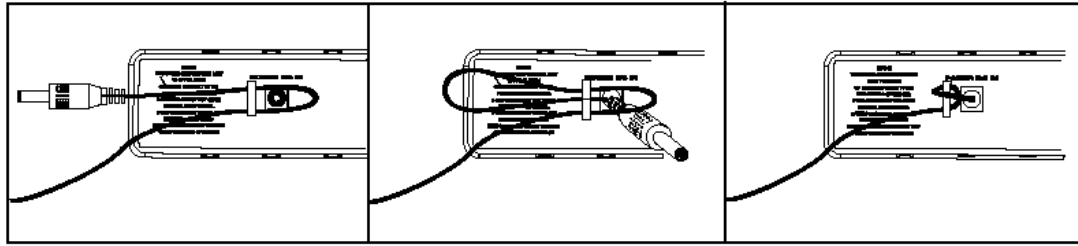
Rear panel :

1: MIX OUT switch - Sets the OUTPUT B balanced output to send either the combined signal for Channel A and B when the switch is in the "ON" position, or to just Channel B when in the "OFF" position. See the "Setting Up and Using the Concert Series System" section on page 6 in this manual for more information.

2: OUTPUT B / MIX OUT - Use this electronically balanced low impedance (600 Ohm) 1/4-inch TRS (Tip Ring Sleeve) jack when connecting the CR277 to your mixer or amplifier equipment. Depending on the position of the MIX OUT (#1) switch, the jack will carry the signal from receiver Channel B, or with the MIX OUTPUT switch set to "ON", the jack will carry the combined signal from receiver Channel A and B.

3: Squelch B control - This control determines the maximum range of the CR277 Channel B receiver before audio signal dropout. Although it can be adjusted using the supplied plastic screwdriver, it should normally be left at its factory setting. See the "Setting Up and Using the Concert Series System" section on page 6 in this manual for more information.

4: DC input - Connect the supplied 15 volt 350 mA power adapter here, using the strain relief as shown in the illustration below. **WARNING:** Do not substitute any other kind of power adapter; doing so can cause severe damage to the CR277 and will void your warranty.



Using the strain relief: Gather up a loop of wire and pass it through the strain relief, then pass the adapter plug through the loop in order to create a knot.

5: Squelch A control - This control determines the maximum range of the CR277 Channel A before audio signal dropout. Although it can be adjusted using the supplied plastic screwdriver, it should normally be left at its factory setting. See the "Setting Up and Using the Concert Series System" section on page 6 in this manual for more information.

6: OUTPUT A - Use this electronically balanced low impedance (600 Ohm) 1/4-inch TRS (Tip Ring Sleeve) jack when connecting the CR277 Channel A receiver to your mixer or amplifier.

- The CR277 receiver is a half-rack unit that can be used freestanding or can be mounted in any standard 19" rack,* making it easy to integrate into any traveling or fixed installation audio system. It includes a pair of tuned antennas and provides both balanced and unbalanced outputs, and continuously adjustable Volume and Squelch controls, as well as an audio peak LED, a six-segment Audio level meter and a six-segment RF level meter.

Specifications

Receiver (CR277)

Oscillation Type	PLL
De-emphasis	50 μ sec
IF Frequency	10.7 MHz
Antenna	1/4 Wavelength Rod
In/Out	DC Inlet, Balanced Output, Unbalanced Output
Display (LED)	Receiver A/B (Green), Power On (Red), Peak (Yellow), RF Level (5 pc)
Level Control	Audio Level Volume, Mute Level Control
Operating Temperature	0° C / 50° C
Operating Voltage	12 Volts \pm 10%
Current Consumption	160 mA (at all LED lights)
Receiving Frequency Range	US: N Channels 642 - 646 MHz Export: U Channels: 801 - 805 MHz
Sensitivity	18 dB μ (@ THD 2%)
Squelch Sensitivity	0 - 40 dB μ (Adjustable)
Selectivity	\pm 150 kHz (AF Out Ratio -60 dB)
T.H.D. (Overall)	1% Max (@AF 1 kHz, RF 46 dBu)
S/N Ratio (Overall)	90 dB (w/IHF-A Filter)
Residual Noise	90 dBv (w/IHF-A Filter)
Band Mute	\pm 40 kHz / \pm 100 kHz (RF IN: 46 dBu EMF)
AF Frequency Response	50 Hz - 15 kHz (\pm 3 dB overall)
Audio Output Level - Balanced	-20 dBm (Line), -40 dBm (Mic)
Audio Output Impedance - Balanced	600 Ohms

