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# ADSP<sup>2</sup> Speaker Manual

## 1 Specifications

### General

Size 3" X 5" X 2-1/2"  
 Weight 11 oz

### Audio Limits

Min Input 100 mV RMS  
 Max Input 5 volt RMS  
 Power Output 5 Watts RMS

### Current Consumption

Idle 110 mA  
 Full Out 500 mA

Out of Band Rejection -45 dB

Noise Floor -60 dB

### Functions

	1 <sup>st</sup> Click	2 <sup>nd</sup> Click	3 <sup>rd</sup> Click
Noise Reduction (Red Button)	13 d	26 dB	0 dB
Filter Selection (Blk/Wht Button)	1800 Hz	500 Hz	100 Hz
Time Delay	6.5 ms	13 ms	
Tone Rejection	-50 dB	-65 dB	

## 2 ADSP<sup>2</sup> Speaker Connections

There are only two connections to make with your ADSP<sup>2</sup> Speaker: 12VDC Power and Audio In.

### 2.1 12 VDC Power



A black wire and a red wire are provided without connectors for 12 VDC power. The red wire should be connected to 12 VDC and the black wire to ground. The speaker unit should operate well with voltages from 10-15 volts. The unit itself is protected against power reversal, so there will be no harm if it is connected backwards inadvertently.

### 2.2 Connecting to your Speaker Output



ADSP<sup>2</sup> Speaker connects directly to your Speaker or Headphones jack on your transceiver. The audio connection is provided with a monaural mini-plug connector. If your receiver uses another connection, you may either replace the existing connector or use an adapter selected to fit your needs.



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### **3 Speaker Operation**

The ADSP<sup>2</sup> Speaker operation is easy with a “One Touch” control for noise reduction and tone interference rejection. When power is applied to the ADSP<sup>2</sup> Speaker, the small red LED will light to let you know power is on. On initial power up, the speaker is in bypass mode and the audio signal is connected directly to the speaker. When the first level of noise reduction is enabled, one green LED will light. When the second level of noise reduction is enabled, two green LEDs will light. There is no LED indication for the filter level, which can be determined by sound.

### **4 Troubleshooting**

At times, the LEDs may become out of sequence. When this or other problems occur, un-hook the power and re-apply. This should re-set the speaker. For other questions, contact SGC technical support.

### **5 Standard Warranty**

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