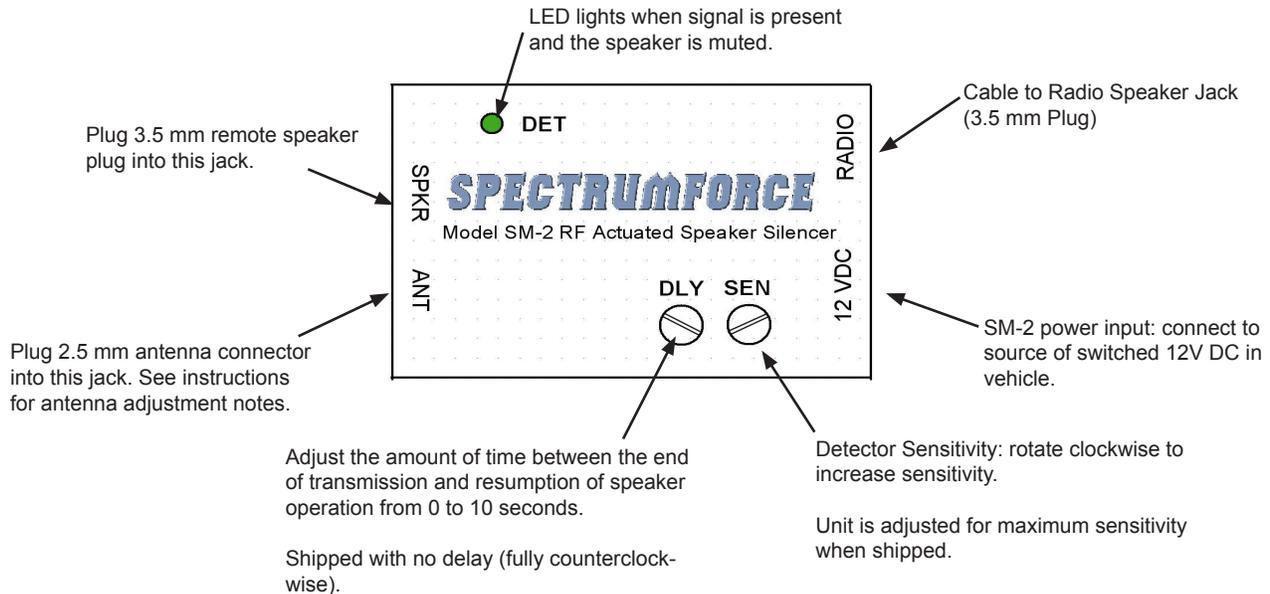


# SpectrumForce SM-2 RF Actuated Speaker Silencer

Thank you for purchasing the SpectrumForce Model SM-2 RF Actuated Speaker Silencer. The SM-2 connects between your scanner and remote speaker to silence the audio from the speaker when it detects a very close radio transmission on frequencies between 1 MHz and 1000 MHz. It is intended to prevent the transmission of background radio noise by first responders, amateur radio operators, or anyone with 2-way radio installations. When muted, the scanner speaker output is switched to a resistive load to protect the scanner's audio amplifier (5 watts maximum).

**INSTALLATION:** Physical placement is not critical and the unit may be tucked away under the dash or wherever convenient. The only electrical wiring aspect of installation is to provide a source of switched 12V DC power, connecting the fused red power lead to positive and the black lead to negative. The SM-2 input is then connected to the external speaker jack of the scanner through the black cable emerging under the "RADIO" label. The external speaker is then connected to the jack labelled "SPKR" and the antenna is plugged in to the "ANT" jack.



**ADJUSTMENT:** The SM-2 is factory configured for maximum sensitivity and no resume delay. A thin narrow screwdriver blade may be used to adjust these characteristics to suit each operator's individual situation. Turning the **DLY** control clockwise increases the amount of time the speaker remains muted after transmission ceases.

The **SEN** control adjusts the sensitivity of the unit and will, likely, only need adjustment in the event that other strong local transmissions trigger the silencer. The green LED marked **DET** will glow when a transmission is detected and the speaker muted. It allows adjustment of the **SEN** control without the need for an audio signal from the scanner. Rotating the SEN control counterclockwise DECREASES the sensitivity.

When transmitted power is low at higher frequencies (> 150 MHz) antenna length and placement become more critical. It may be necessary to experiment with the best location and orientation for the antenna. It may also be beneficial to cut the antenna to be more resonant at the transmitter operating frequency. The approximate length (inches) may be found by dividing the transmitting frequency into 2800. For example, 450 MHz = 6.25", 850 MHz = 3.3". Note that the calculated length is approximate and surrounding metallic objects may affect the best length. If shortening the supplied antenna is necessary, cut it about an inch longer than calculated as a starting point.

**SpectrumForce Products**  
260 Hopping Brook Road  
Holliston, MA 01746  
508-474-6880  
www.spectrumforce.com

*This unit is warranted for a period of 90 days against defects in materials or workmanship. Warranty is void in the event of physical abuse or improper electrical connection (reverse polarity, for example). Contact your distributor in the event Warranty service is required.*