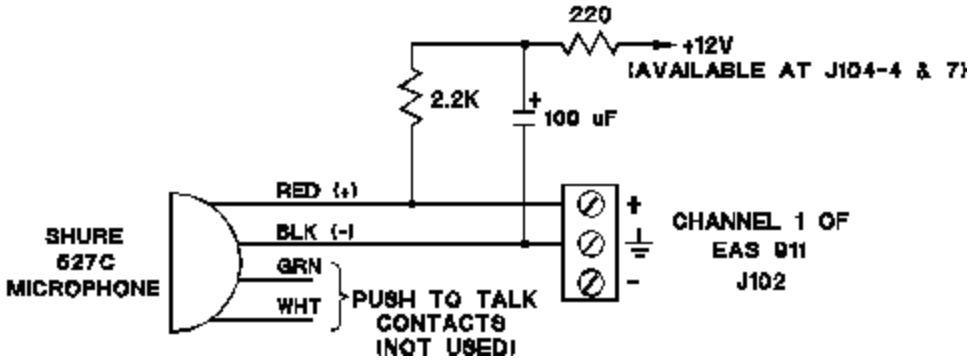
EAS APPLICATION NOTE No. 1007

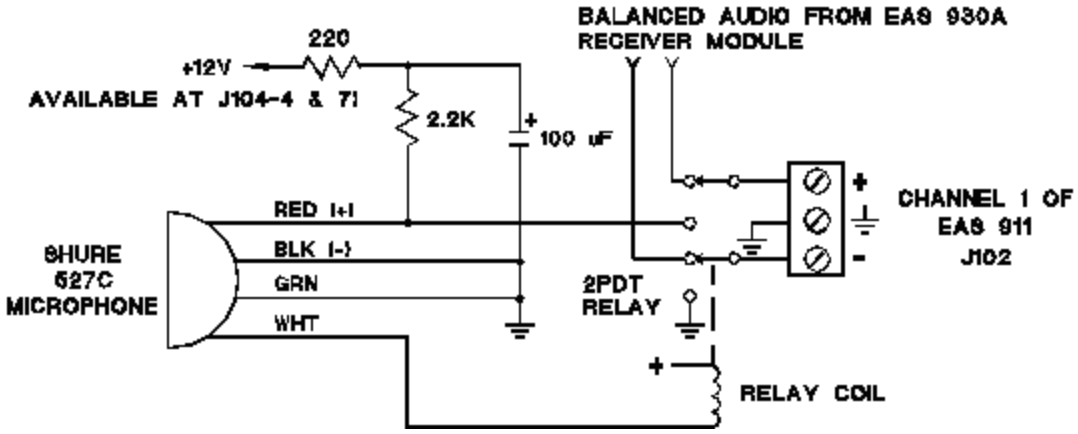
Interfacing the Shure 527C Microphone to the TFT EAS 911

The EAS 911's audio inputs expect to see line level (approximately 0 dBm) signals. Standard dynamic microphones have output levels about 50 dB below that, so they will not work properly if directly connected to the EAS 911. An external amplifier can be used to raise the mic's output to line level, or an amplified microphone can be connected directly to the EAS 911's Channel 1 input.

The Shure 527C microphone provides a high level audio output and can be connected to the 911 with a minimum of components. The schematic below illustrates the connection.



The 220 Ohm resistor and 100 uF capacitor filter any transients that may appear on the power supply; the 2.2K resistor provides the signal load for the mic's internal amplifier. An external DC blocking capacitor is not required; the 911's audio input provides it internally. If Channel 1 is dedicated to a monitor receiver, a relay can be added as shown below, to connect the microphone only when it is being used to pre-record a voice message. The relay should be powered externally, because only a limited amount of current is available from J104-4 or 7.



TFT, Inc. • 1953 Concourse Drive • San Jose, CA 95131 USA
Telephone: (+1)408-943-9323 • Fax: (+1)408-432-9218 • Website: www.TFTInc.com • Email: info@TFTInc.com