<u>Wireless microphone circuit description of AMERICAN STARPOWER X2</u>

AUDIO CIRCUIT
The audio signal is injected via the microphone sensor into the audio circuit composed of the amp transistors 1815 & IC-31101. The level of the output signal is controlled by the resistors VR 10k ohm.

MODULATOR CIRCUIT
The modulator circuit is a direct FM type built around the local oscillator controlled by D2368,crystal, 2 IFT (23~24 turns & 26~27turns), transistor 9018. The modulated output from the oscillator is sent to the RF amp.

RF PRE-AMPLIFIER & FINAL AMPLIFIER
One transistor amplifier stages, using H10 transistor, culminating with a normal transmitter output of <1mW. The output filter comprised of 2 capacitors and 2 coils to suppress the output harmonics and matches the output to the integrate antenna.

POWER CIRCUIT
The power is controlled by IC 78L05.