

# Reply Antenna Combining System (ACS)

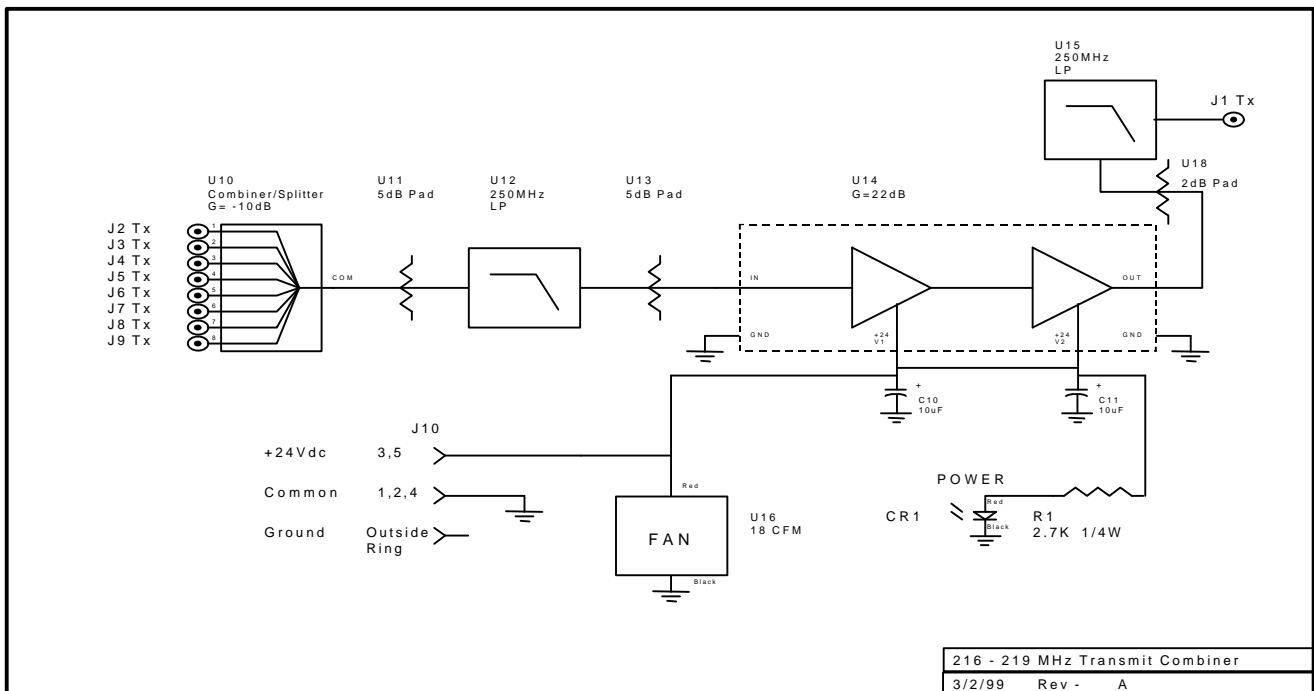
## Theory of Operation

### The ACS

The ACS combines signals from up to 8 transmitters in the band from 216 to 219 MHz. See Figure 1. It supplies 0 dB of gain from any input to the single output.

The amplifier is a very low distortion modular unit with 22 dB of gain; just enough to offset other losses. Harmonics are controlled by using two low-pass filters.

The unit is powered through an external power supply.



The ACS uses forced air cooling.