

## Rino 110/120 Transmitter Tune-up Procedure

1. As part of the manufacturing process, the unit will be powered on and the transmitter will be enabled. R401 will be adjusted to center the transmit signal to the desired test frequency.
2. A computer will command the unit under test to vary the voltage on I407 pin 1 until the transmit power on FRS channels is between 450mW ~ 499mW. It will then command the unit to a GMRS channel and adjust the power to be between 500mW ~ 1 watt. These voltage levels will then be stored in non-volatile memory. These values can be recalled by the unit as necessary, depending on whether the user decides to operate on FRS or GMRS channels.
3. The computer will command a function generator to output a 100mV, 500Hz audio signal to the unit under test. The computer will then command the unit to adjust I400 so modulation is between 2300Hz ~ 2499Hz.
4. The computer will command the unit to generate a 1111... data pattern and adjust I400 so modulation is between 2300Hz ~ 2499Hz.
5. The computer will command the unit to generate a sub-audible squelch tone of 156.7MHz and adjust I400 until modulation is between 350Hz ~ 600Hz.