

EXHIBIT 2

§2.1033(c)(9)

7720PLUS TUNE-UP PROCEDURE

Power is applied to the 7720PLUS from 120VAC through the supplied 10:1 transformer.

A 7720P Programming Tool is used to program the operating frequency, typically channel #10, and other operational functions listed in the Installation and Operating instructions.

Once the 7720PLUS is programmed, the input voltage is removed. The unit is then put into its "Diagnostic Mode" by grounding pin #16 of the microprocessor, U4, while input voltage is re-applied.

ADJUSTMENTS

1. Battery Charging Voltage : R357 is adjusted such that, with no battery present, a voltage of +13.8V is present at the output of Q55 (VBAT).

2. Operating Frequency : A voltage $\geq +5V$ is applied to Zone #3. This causes the 7720PLUS to transmit a low level CW signal. The TCVCXO, A2, is adjusted (if necessary) to the programmed operating frequency $\pm 460Hz$.

3. Modulation : Initially R1 and R43 are set to the middle of their adjustment range. A voltage $\geq +5V$ is applied to Zone 1. This causes the 7720PLUS to transmit a low level frequency modulated signal with modulation frequency of 625Hz. R1 is adjusted for a frequency deviation of $3kHz \pm 200Hz$. The voltage is then removed from Zone #1.

A voltage $\geq +5V$ is applied to Zone #2. This causes the 7720plus to transmit a low level frequency modulated signal with a modulation frequency of 2500Hz. R43 is adjusted for a frequency deviation of $3kHz \pm 200Hz$.

Adjustment of R1 and R43 are repeated as needed. Verification of the adjustment is done by applying a voltage $\geq +5V$ to Zones #1 and #2. This causes the 7720PLUS to transmit a low level frequency modulated signal comprised of pseudo-random data. The deviation measured shall be $3kHz \pm 200Hz$.

4. Output Power : A voltage $\geq +5V$ is applied to Zones #1 and #3. This causes bias voltage to be applied to the PA, Q4. No RF power is transmitted. R39 is adjusted for a 1V level at U16 pin #1. This corresponds to quiescent PA collector current of 50mA.

A voltage $\geq +5V$ is applied to Zones #2 and #3. This causes the 7720PLUS to transmit at full power for 50ms every 1.35 seconds (a typical transmission cycle). The output power is measured and if it is $> +37dBm$ R39 is adjusted to obtain $+37dBm$.