

Adjustment instrucion

PUBLIC PARTS (commissioning equipment: VOLTAGE METER):

- 1、 BATTERY VOLTAGE: $7.5V \pm 0.1V$.
FREQUENCY RANGE: 400-500MHz.
- 2、 check RX VCO lock voltage: high end: $3.5V \pm 0.2V$.
Low end: 0.6V.
- 3、 check TX VCO lock voltage: high end: $3.8V \pm 0.2V$.
Low end: 0.6V.

Transmitting part (commissioning equipment : AEROFLEX3920,3A standard power supply. tesing software: PX-800 programming software)

- 1、 Frequency adjust: nominal frequency $\pm 50\text{Hz}$.
- 2、 Adjust high power: (high, middle, low ,nine points in total) $5.0 \pm 1.0\text{W}$. check the average current $\leq 1.0\text{A}$.
- 3、 Low power adjust: (high, middle, low, nine points in total) $1.0 \pm 0.2\text{W}$. check the current $\leq 0.8\text{A}$.
- 4、 Bit error rate adjustment: adjust the MOD1, MOD2 amplitude separately, make 4FSK level +3、 -3 deviation value is $\pm 1.944 \pm 0.1\text{KHz}$, +1、 -1 deviation $\pm 0.648 \pm 0.1\text{KHz}$, bit error $\leq 3\%$.

Receiver part (commissioning equipment: AEROFLEX3920, 3A standard power supply. tesing software: PX-800 programming software)

RX audio power: check the maximum audio power: $1.2 \pm 0.1\text{W}$. current $\leq 0.4\text{A}$.

- 1、 RX sensitivity adjustment:

Signal source output the standard digital signal, the amplitude is -116dBm, adjust the sensitivity items in the PX-800 , PX-820 software for the RX PCTV voltage of high, middle, low 9 frequency points in total, and make all the RX bit error rate are less than 3%.