

Adjustment instrucion

PUBLIC PARTS (commissioning equipment: VOLTAGE METER):

- 1、BATTERY VOLTAGE: $7.4V \pm 0.1V$.
FREQUENCY RANGE: 136-174MHz.
- 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: 4.68W. check the
average current $\leq 1.0\text{A}$.
- 3、Low power adjust: 1.50W. 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: $1.0 \pm 0.2\text{W}$. 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 RDR3500V, RDR3600V 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%.