

1.Adjustment Manual

Issue	Y M D	Azden Adjustment Standard	Category	
Adjusted date	Y M D	33-542-01 (2000BT) Adjustment Manual	No.	
<p>Default conditions for the adjustment Power supply:3.0V VR position:center</p> <p>1. Adjustment of VCO 1) Set the frequency to 42-01(638.125MHz) 2) Connect the DC voltmeter to TP201 3) Confirm the DC voltmeter indicates 1.2V 4) Set the frequency to 45-47(661.875MHz) and confirm the voltage is 2.2V on the DC voltmeter</p> <p>2. Adjustment of the RF output power 1) Set the frequency to CH43-47(649.875MHz). 2) Connect the power meter to CN2 3) Adjust the power to 50mW by VR201 4) Connect the spectrum analyzer to CN2 5) Confirm that the spurious is at least 40dB lower than the carrier frequency</p> <p>3. Adjustment of the transmitting frequency 1) Set the frequency to CH43-47 2) Connect the frequency counter to CN2 3) Adjust VC201 so that the frequency counter shows 649.875MHz</p> <p>4. Adjustment of the AF modulation 1) Connect the RC Oscillator to CN101. 2) Set the oscillator output level -35dBu(The frequency is 1kHz) 3) Connect the AC voltmeter to TP101 and confirm the the voltmeter shows -16dBu. 4) Connect the linear detector to CN2. 5) Adjust VR103 so that the deviation level is plus-minus 20kHz</p> <p>5. Adjustment of the AF peak indicator 1) Set the oscillator output level -23dBu(The frequency is 1kHz) 2) Confirm Peak LED(LED302) is glow.</p> <p>6. Adjustment of the tone modulation 1) Set 120kHz(LPF) on the linear detector. 2) Adjust VR301 so that the deviation level becomes plus-minus 3.2kHz</p> <p>7. Confirming of the battery indicator 1) Supply 2.1V to the transmitter. 2) Confirm the battery indicator turns on Red from Green.</p> <p>8. Other confirming points 1) Set up the receiver for communication check 2) Connect the lavalier microphone to the transmitter and send the audio to check whether it operates correctly 3) Make an impact on the body and check whether the unit does not show any abnormal sound 4) Check the unit frequency range from 638.125 to 661.875MHz in 125kHz step 5) Factory default conditions - Power : off, Channel : 42-01,VR position:Center</p>				