ADJUSTMENTPROCEDURES

1. Transmitter Power Adjustment

a).Adjust the DC power supply so that 12V is obtained at the battery terminals. Confirm that the power meter, dummy load and output tester are prepared.

b).Turn the power on and plug a XTAL element(72.550MHz)into the crystal socket.

c).Adjust T101,T102,T103,T104 and T105 in this order so the power meter reading become maximum.

d).Repeat procedure c several times. The RF power meter reading should be more fhan 0.10W when the power is on and at a normal temperature. Then check the current meter reading should be less than 100mA.

2. Transmission Deviation Adjustment

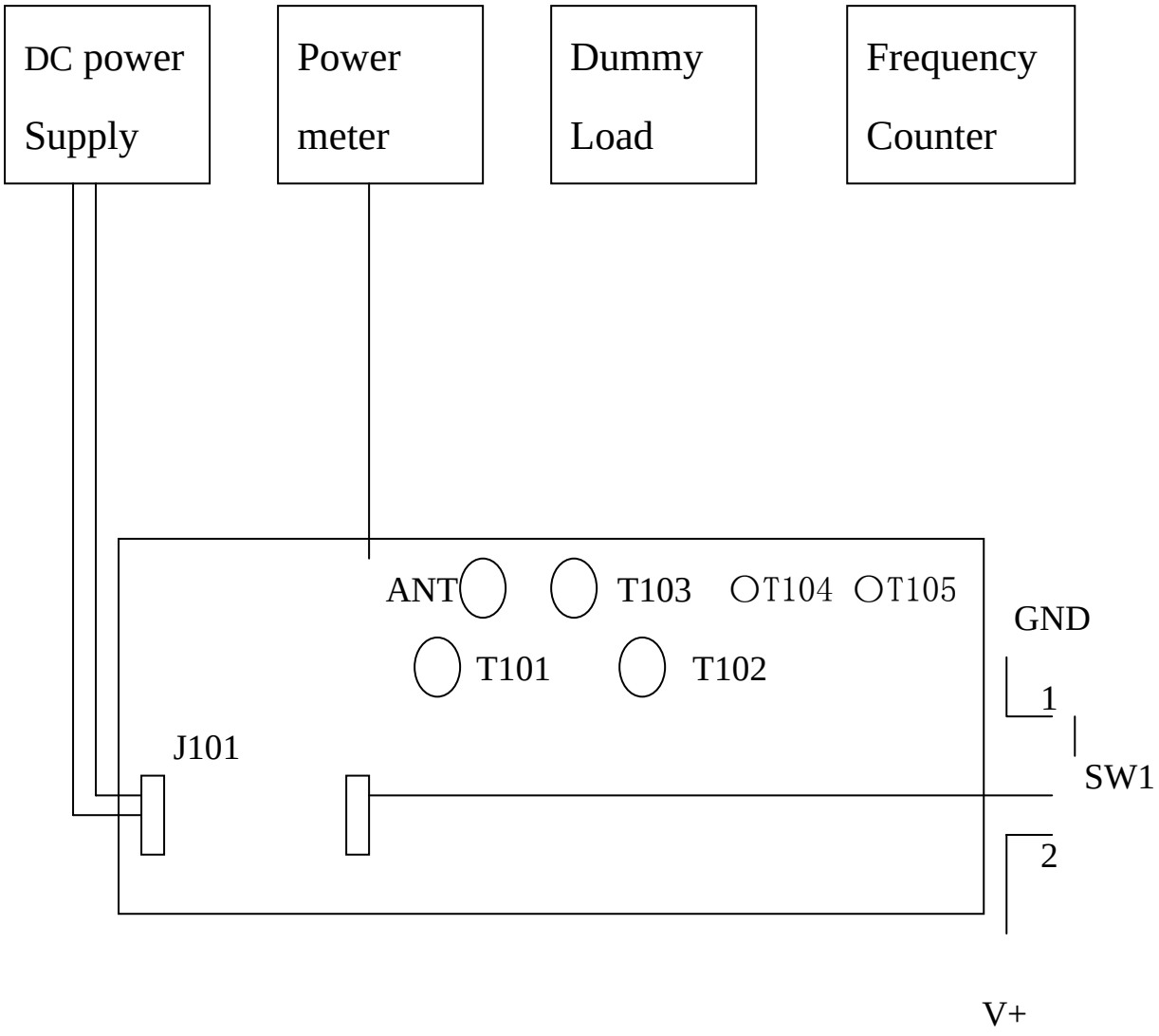
a).Set up the unit for the transmission mode.

b).Set the Switch 1 to position “1”,then adjust VR101 so that the frequency counter reading is-1.5KHz (72.5485MHz)

c).Set the Switch 1 to position “2”,then adjust VR102 so that the frequency counter reading is+1.5KHz(72.5515MHz)

d).Repeat procedure b, c, so that maximum deviation is ±1.5 KHz Adjustment setup block diagram

ADJUSTMENT SETUP BLOCK DLAGRAM



NOTE:The elements illustrated above are solely for explaining the adjustment procedure.