

## **Tune up of SIEM-101T (Transmitter)**

### **1. VCO voltage**

01. Connect C137 to the digital meter.
02. Adjust VC102
03. Specification: Frequency is between 1V (lowest) and 3.5V (highest).

### **2. Adjust the power of TX**

01. Connect L117 to the spectrum.
02. Adjust the signal of VC103 & VC104 to the highest.

### **3. Adjust the frequency**

01. Connect L117 to the counter.
02. Adjust VC101
03. Specification: TX Frequency  $\pm 1$ KHz

### **4. Adjust 19 KHz**

01. Connect PH201 & PH202 to the AF signal generator (560mV p-p)
02. Connect U205A#1 & U204A#1 to the oscilloscope.
03. Adjust the signal of L201 & L202 to the lowest.

### **5. Adjust the signal of sub-carrier**

01. Connect L117 to the spectrum.
02. Adjust the sub-carrier of VR203 to the lowest.

### **6. Adjust 19 KHz pilot tone**

01. Connect PH201 to the AF signal generator. (1 KHz, 560mV p-p)
02. Take the standard SIEM-101R and connect the earphone to the oscilloscope.
03. Adjust L203 till the signal of Left to the highest and Right to the lowest on the oscilloscope.

### **7. Adjust the Deviation**

01. Connect PH201 to the AF signal generator. (1 KHz, 560mV p-p)
02. Connect L117 to the deviation meter.
03. Adjust VR204.
04. Specification: 22KHz  $\pm 1$ KHz