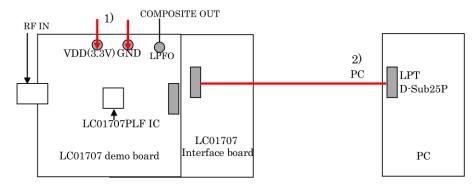


# Test Procedure for the LC01707PLFGEVB Evaluation Board

### LC01707PLF controller manual:

- 1. How to connection
- 1) Power Supply voltage of 3.3V
- 2) Connected to an exclusive cable between parallel port and interface boards

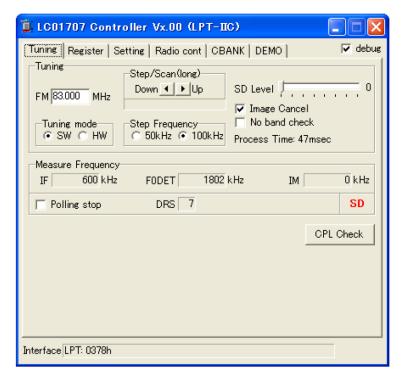


#### 2. How to start of controller

•Defrost an LC01707ControllerVxXX.zip file



•Double-click LC01707Controller.exe file When normalcy works, a [Tuning] screen opens.



When the next message is given, please reconfirm connection and power supply.

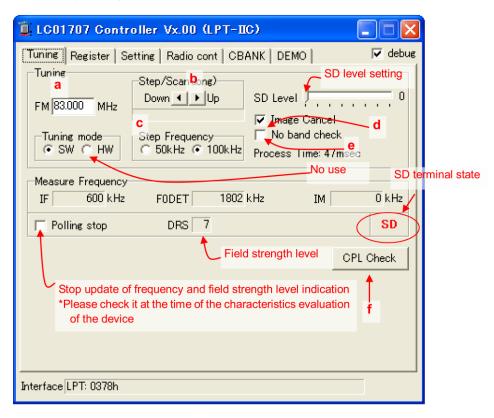




## 3. Description of all parts

• [Tuning] tab

Frequency setting and confirmation are possible.



a. Tuning

It input frequency and am tuned up with the enter key

b. Step/Scan

Short push: 1step tuning Long push: scan tuning

c. Step Frequency

Choose step frequency

\*The step frequency of the Reg.02h(DFSEL) setting is 50kHz fixation

d. Image detection change ON-OFF check box

No check . . . Automatically image detection OFF

Check . . . Automatically image detection ON

e. Reception band limitation ON-OFF check box

No check (Normal) . . . Reception Band is 76MHz - 90MHz

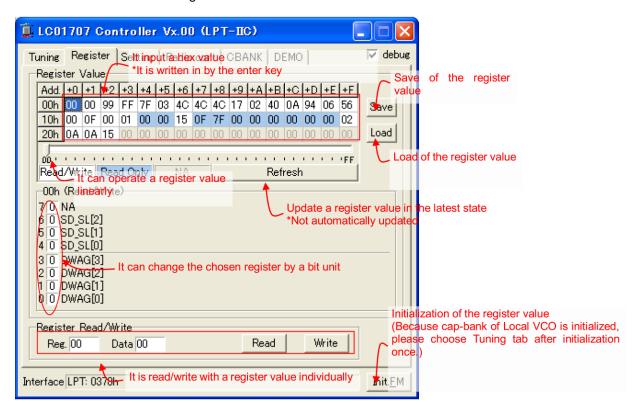
Check (For Debugging) . . . The reception frequency range becomes same as VCO movement range

f. CPL Check button

You can confirm a CP terminal voltage form IIC by clicking it



• [Register] tab Direct read/write can do a register value



### 4. How to end of controller

Please click button of the window top right corner

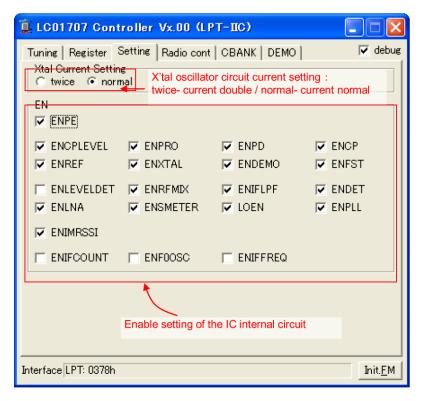
## 5. How to un-installation

Please delete the folder which you made with section 2.



## 6. Description of other tabs

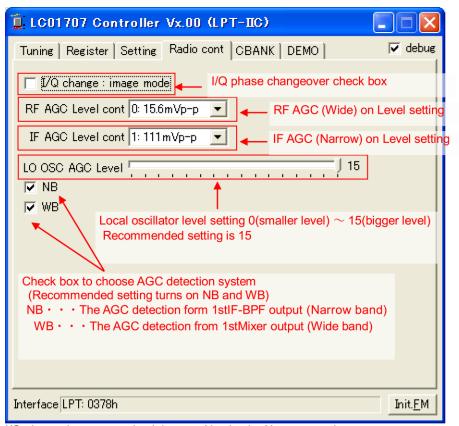
• [Setting] tab



### About IC internal circuit enable setting

- · ENPE . . . Whole circuit enable
- ENCPLEVEL . . . Charge pump level comparator enable
- ENPRO . . . Program counter enable
- · ENPD . . . Phase comparator enable
- ENCP . . . Charge pump enable
- · ENREF . . . Signal meter enable
- ENXTAL . . . X'tal oscillator enable
- ENDEMO . . . Demodulator enable
- · ENFST . . . BPF and IF-AGC block enable
- ENLEVELDET . . . No use (OFF)
- ENRFMIX . . . RF-Mixer enable
- ENIFLPF . . . IF-LPF enable
- ENDET . . . Wide-AGC and Narrow-AGC enable
- ENLNA . . . LNA block enable
- · ENSMETER . . . Reference counter enable
- · LOEN . . . Local oscillator enable
- ENPLL . . . PLL block enable
- · ENIMRSSI . . . X'tal oscillator circuit current setting enable
- ENIFCOUNT . . . Analog block frequency counter enable (IF counter), only at the time of scan
- ENFOOSC ... f0 detection oscillator circuit enable, only at the time of setup and initial tuning
- ENIFFREQ . . . Logic block reference clock enable
- [Radio cont] tab





I/Q phase changeover check box . . . No check : Upper reception,

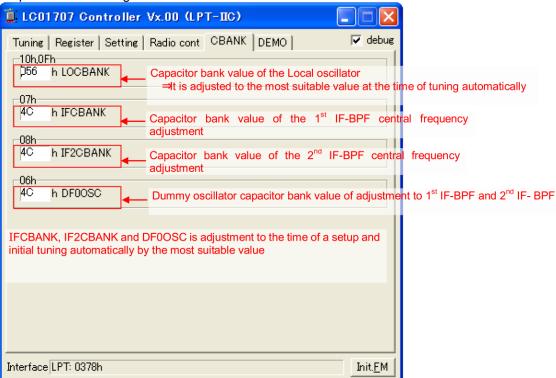
Check: When an imege frequency exists, it change to the Lower reception

Please refer to Page 7 for the detailed movement of I/Q phase changeover check box.

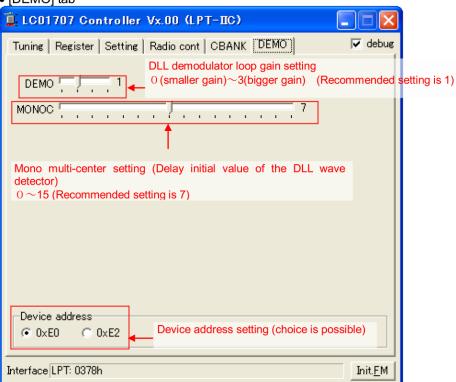


• [CBANK] tab

Capacitor bank setting of the IC internal circuit



• [DEMO] tab





## 7. About an image detection change

The function of the image detection Upper/Lower change ON/OFF check box of Screen 1 is as follows.

### When you checked it . . .

When an image detection function is ON, a Local oscillation changes to Upper or Lower automatically according to an image disturbance situation.

#### When there is no check . . .

An image detection function is turned off, and is not concerned with the existence of image disturbance, but usually becomes Upper reception.

When changing to Lower reception compulsorily, if the I/Q change check box of Screen 2 is turned on and it changes to the Tuning screen of Screen 1, it will not be concerned with the existence of image disturbance, but will become Lower reception.

If the I/Q change check box of Screen 2 is unchecked and it changes to the Tuning screen of Screen 1 also when changing from Lower reception to Upper reception, it will not be concerned with the existence of image disturbance, but will become Upper reception.

