

NSA2010 ADJUSTMENT AND MEASUREMENT GUIDE

<Key operation> <Function/LCD indication>

1: [Power Switch].....No Service

2: ~KeyRubberSwitch~

[5]+[4]+[#]+[3]+[MENU]+[2]+[#].....Test Mode

3: [MENU]+[MEM]+[SEND]Align Mode

4: [CLR]01-255

5: [CLR]02-255

6: [CLR]03-TCXO-F

Then, transmit output power (CH0799), 848.970000MHZ is generated.

In case of generating a frequency shift, adjust the frequency according to the following method.

ADJUSTMENT PROCEDURES:

Generating high shift, → push [<*] key (the frequency goes down)

Generating low shift, → push [#>] key (the frequency goes up)

→To fix the adjustment, push [MENU] key.

7: [CLR].....04-DEM0D

Adjust SG Input to 50dBm CH0384 (881.52MHZ).

Deviation-2.9kHz

DeviationFrequency-1kHz

Adjust AF output to 110mA±5mA

8: [CLR].....05-PL0-LOW

Adjust output to 620mW±10mW

c.f How to adjust

9: [CLR]06-PL3-LOW

Adjust output to 250mW±10mW

c.f How to adjust

10: [CLR]07-PL4-LOW

Adjust output to 100mW±10mW

c.f How to adjust

11: [CLR]08-PL5-LOW

Adjust output to 40mW±0.5mW

c.f How to adjust

12: [CLR]09-PL6-LOW

Adjust output 16mW±0.8mW

c.f How to adjust

13: [CLR]10-PL7-LOW

Adjust output 6.0mW±0.6mW

c.f How to adjust

14: [CLR].....11-PL0-MID

Adjust output to 620mW±10mW

c.f How to adjust

15: [CLR]12-PL3-MID

Adjust output to $250\text{mW} \pm 10\text{mW}$

c.f How to adjust

16: [CLR]13-PL4-MID

Adjust output to $100\text{mW} \pm 10\text{mW}$

c.f How to adjust

17: [CLR]14-PL5-MID

Adjust output to $40\text{mW} \pm 0.5\text{mW}$

c.f How to adjust

18: [CLR]15-PL6-MID

Adjust output $16\text{mW} \pm 0.8\text{mW}$

c.f How to adjust

19: [CLR]16-PL7-MID

Adjust output $6.0\text{mW} \pm 0.6\text{mW}$

c.f How to adjust

20: [CLR].....17-PL0-HI

Adjust output to $620\text{mW} \pm 10\text{mW}$

c.f How to adjust

21: [CLR].....18-PL3-HI

Adjust output to $250\text{mW} \pm 10\text{mW}$

c.f How to adjust

22: [CLR]19-PL4-HI

Adjust output to $100\text{mW} \pm 10\text{mW}$

c.f How to adjust

23: [CLR]20-PL5-HI

Adjust output to $40\text{mW} \pm 0.5\text{mW}$

c.f How to adjust

24: [CLR]21-PL6-HI

Adjust output $16\text{mW} \pm 0.8\text{mW}$

c.f How to adjust

25: [CLR]22-PL7-HI

Adjust output $6.0\text{mW} \pm 0.6\text{mW}$

c.f How to adjust

26: [CLR]23-LIMIT-L

27: [CLR].....24-LIMIT-M

28: [CLR].....25-LIMIT-H

LIMIT has three channels LIMIT- Low, Middle, High.

Adjust Max Deviation in this channel to $10.8\text{kHz} \pm 0.5\text{kHz}$.

<Test Condition>

~H/P 8920B~

Input level: 121dBmV
IF Filter: 230KHz
Filter1: 50HZ HPF
Filter2: 15KHZ LPF
De-Emphasis: OFF

29: [CLR]26-ST-LOW
30: [CLR].....27-ST-MID
31: [CLR].....28-ST-HI

ST has three channels ST-Low, Middle, High.
In this channel (low), adjust signal tone deviation.
Adjust Max Deviation 8.0±0.2Khz.

<Test Condition>

~H/P 8920B~

External Input: OFF
IF Filter: 230KHz
Filter1: 300HZ HPF
Filter2: 15KH LPF
De-Emphasis: OFF

32: [CLR]29-SAT-LOW
33: [CLR].....30-SAT-MID
34: [CLR].....31-SAT-HI

SAT has three channels SAT-Low, Middle, High.
In this channel, adjust SAT Deviation to 2.0kHz/2.3kHz

<Test Condition>

~H/P 8920B~

External Input: OFF
IF Filter: 15 kHz
Filter1: less than 20 HZ HPF/300Hz HPF
Filter2: 6KBPF/15kHz LPF
De-Emphasis: OFF

35: [CLR].....32-VOICE-L
36: [CLR].....33-VOICE-M
37: [CLR].....34-VOICE-H

Voice has three channels VOICE-Low, Middle, High.
In this channel, adjust VOI-EXT Deviation to 2.9kHz.

<Test Condition>

~H/P 8920B~

Input level: 99dBuV
IF Filter: 15kHz
Filter1: C MESSAGE
Filter2: 99K LPF
De-Emphasis: OFF

38: [CLR].....35-DTMF-LO
39: [CLR].....36-DTMF-MI
40: [CLR].....37-DTMF-HI

DTMF has three channels, Low, Middle, High.
In this channel, adjust Deviation to 8.6kHz.

<Test Condition>

~H/P 8920B~

External Input: OFF
IF Filter: 230kHz

Filter1: 300HPF
Filter2: 3K LPF
De-Emphasis: OFF

41: [CLR].....40-ANT-2
 Antenna display 2: -110dBm
42: [CLR].....41-ANT-3
 Antenna display 3: -100dBm
43: [CLR].....42-ANT-4
 Antenna display 4: -90dBm

That is all to adjust for NSA2010.
The other channels have nothing to do with this function set, so please do not touch them.