Within the “**AudioBoost**” folder there are several files, I’ll list out there names and the components each refer to:

**bta2dp.parameters** - bluetooth headsets (when using stereo output)  
  
**btmono-hfp.parameters** - bluetooth headsets (of some type)  
  
**btmono-hsp.parameters** - bluetooth headsets (of some other type)  
  
**hp.parameters** - earphone (phone calls)

**ihf.parameters** – speakers

**Plz note that the N900 speakers are very sensitive and easy to blow, therefore I do not recommend playing with this file, if you do choose to mess with it, do not disable ”xprot” for the sake of God or…..you will regret it…..**

**ihfandfmtx.parameters** - fm transmitter  
  
**fmtx.parameters** - fm transmitter (used for applications other than the default media player to access)  
  
**hs.parameters** - head**sets** (of some type)  
  
**ihfandheadset.parameters** - head**sets** (of some other type, mainly used by the head**set** the n900 comes with)  
  
**ihfandlineout.parameters** - audio jacks (for some type, also used for head**phones**)  
  
**lineout.parameters** - audio jacks (for some other other type)  
  
**ihfandtv-out.parameters** - tv out audio (for default nokia n900 tv cable)  
  
**tvout.parameters** - tv out

The above files address the audio output system directly, meaning that they mainly deal with Audio Quality, Volume steps, Loudness, Bass & Trebble. It is also good to note that these files also deal with the raw audio system for **maemo**, meaning that they are the base for Audio Output used by programs working with the “Maemo 5” Operating system. Nitdroid and other OS’s are not used by (or affected) by these files.

Opening the files with a note pad editor you would find several lines relating to Boolean operations; I’ll try to explain what each does:

**x-maemo.aep = “…”** :- Enables an audio boost (makes volume lightly louder)

**x-maemo.nrec = “…”** :- Turn up Background music quality

**x-maemo.nb\_eeq = “…”** :- Turns up the tweeter

**x-maemo.nb\_meq = “…”** :- Also turns up the tweeter (further)

**x-maemo.wb\_eeq = "…"** :- Turns up the bass

**x-maemo.wb\_meq = "…"** :- Also turns up the bass (further)

**x-maemo.stereo-widening = "…"** :- Stereo Widening

**x-maemo.xprot.displacement = "…"** :- Limits volume / makes it lower than it should be for protection

**x-maemo.xprot.temperature = "…”** :- Limits the distortion in audio output for protection

**x-maemo.alsa\_sink.mixer\_control = "HP DAC:off,Headphone:control,Earphone:off"**

This refers to the aspect off the audio system the file is in control of in this case it **controls** the headphones**.**

**Editing The “VOLUME STEPS”**

**x-maemo.alsa\_sink.mixer\_tuning = (Values)** :- This refers to the volume output/loudness of the **“actual”** audio system.

**x-maemo.alsa\_sink.alt\_mixer\_tuning = (Values)** :- This refers to the volume output of the audio system used by applications. This also works in conjunction with the **“actual”** audio system values.

Looking at each Value, you would notice that most of them are negatives (-Values). This is because the higher you go the Louder the audio output becomes. For, example a value of “36:-300” would sound softer than a value of “36:300”. Values from Left to right represent the Lowest to the Highest volume.

You can also reduce volume steps from say 10 button touches to 5….Meaning that if you want to touch the volume up button 5 times to get full to volume, rather than 10 times; You could then edit the file values to look like this.

The below represents a 5 step audio system:

x-maemo.alsa\_sink.mixer\_tuning = "… =0:-6000,74:-500,82:-40,90:-30,94:-2,98:-1, 118:0"

x-maemo.alsa\_sink.alt\_mixer\_tuning = “… =0:-6000,74:-500,82:-40,90:-30,94:-2,98:-1, 118:0

x-maemo.audio\_aep\_mb\_steps = "-6000,-2200,-1800,-1400,-1200,-1000,-800,-600,-400,800,0"

The below represents a 6 step audio system:

x-maemo.alsa\_sink.mixer\_tuning = "… =0:-6000,74:-500,82:-40,90:-30,94:-2,98:-1,114:100, 118:0"

x-maemo.alsa\_sink.alt\_mixer\_tuning = “… =0:-6000,74:-500,82:-40,90:-30,94:-2,98:-1,114:100, 118:0”

x-maemo.audio\_aep\_mb\_steps = "-6000,-2200,-1800,-1400,-1200,-1000,-800,-600,-400,800,0"

**x-maemo.ear\_ref\_padding = (Value)** :- This refers to the **tone** of the overall audio output. Turning it up to a value of say, 1000 for headsets/headphones would give you an idea of what it does.

**If you are willing to try any tests, I recommend you use the headphone file settings (ihfandlineout.parameters or lineout.parameters) for experimentation because it’s safer that way.**

**Changing Loudness**

**This is quite simple, all you have to do is change the second to last values for example:**

x-maemo.alsa\_sink.mixer\_tuning = "… =0:-6000,74:-500,82:-40,90:-30,94:-2,98:-1,114:100, 118:0"

x-maemo.alsa\_sink.alt\_mixer\_tuning = “… =0:-6000,74:-500,82:-40,90:-30,94:-2,98:-1,114:100, 118:0”

x-maemo.audio\_aep\_mb\_steps = "-6000,-2200,-1800,-1400,-1200,-1000,-800,-600,-400,100,0"

**The Values in red represents the one you should** **change…**