

Telex/EVI
Strategic Projects

FACSIMILE TRANSMISSION

Date: October 23, 1998
To: Keith/Top-in-Sound
Fax: 765/641-7270
Subject: DN8000 Parameters
From: Jim Long

Attached is a page with the official Xi-1122/85 and Xi-1191 parameter settings. Also, I have marked in parameters for the DMS-1181 and DMS-2181, based on Dx34A settings (one has to make a "Q to bandwidth" transformation in going from the Dx34A to the DN8000). (Ain't' DSP fun?)

The only other comment I can think of is that the 1122's are programmed for full-range performance (60-Hz low-frequency 3-dB-down point), so their low end will overlap the high end of the 1181's high passed at 80 Hz. Depending on the relative locations of the mains and the subs, subwoofer delay and phase may have to be adjusted to get summing instead of cancellation in the overlap region.

Enc.

cc: Starin/Chesterton

EV Xi X-Array Install Loudspeakers
KT DN8000 Digital Parameters

Loudspeaker System		Xi-1191 Subwoofer Only			Xi-1122/85 Stereo 2-Way + Sub						
Notes		*Two options shown for output 5 - no other outputs shown. *Use normal tuning for most circumstances. Use step-down tuning only when extended subwoofer response is required. Foam block must be inserted in Xi-1191 port for step-down tuning to be used. *Adjust subwoofer level as necessary. Adjust subwoofer phase & delay for LF summation with full-range system. *Select Input A, B or A+B. *Adjust limiters for driver protection. *Adjust compressors & gates as necessary.			*Select Input A or B. *Adjust limiters for driver protection. *Adjust compressors & gates as necessary. *Subwoofer optional - Adjust levels as necessary.						
Programmer: 1st Rev. - Last Rev.		DEC: 06/03/98 - DEC: 07/28/98			DEC: 04/16/98 - DEC: 07/28/98						
DN8000 Program Title		XI-1191 S-D/N			XI-1122/85						
Main Input Master Delays (uS)		A: 20 B: 20			A: 20 B: 20						
Frequency Band		1191 Step-Down SUB		1191 Normal SUB	1122/85 LF (L)	1122/85 HF (L)	1122/85 LF (R)	1122/85 HF (R)	1191 SUB		
DN8000 Output		5		5	1	2	3	4	5		
Main Menu	Input Source (A, B)	A+B		A+B	A	A	B	B			
	Output Align Delay (uS)	See Notes		20 - See Notes	312	20	312	20			
	Polarity (Normal, Invert)	Invert		Invert	Norm	Norm	Norm	Norm			
	Phase Adjust (Deg.)	See Notes		0 - See Notes	0	0	0	0			
	Output Mute (On, Off)	Off		Off	Off	Off	Off	Off			
	Digital Output Level (dB)	+12.0		+12.0	+8.0	-2.0	+8.0	-2.0			
Output Display Label		Sub		Sub	Lo	Hi	Lo	Hi			
EQ Menu	HPF Freq. (Hz)	37	23.4	31.5	55.3	1.50k	55.3	1.50k			
	HPF Resp. (Type-dB/Oct)	But 12	But 24	But 24	But 24	LR 24	But 24	LR 24			
	HPF Lift/Boost (dB)	0	0	0	0	0	0	0			
	LPF Freq. (Hz)	80	80.0	80.0	1.50k	16.0k	1.50k	16.0k			
	LPF Resp. (Type-dB/Oct)	LR 24	LR 24	LR 24	LR 24	But 24	LR 24	But 24			
	PEQ1 Freq. (Hz)	42	29.5	37.4	67.2	1.21k	67.2	1.21k			
	PEQ1 BW (Oct)	0.41	0.6	0.5	0.7	0.8	0.7	0.8			
	PEQ1 Level (dB)	+4.0	+5.0	+4.0	+9.0	-2.5	+9.0	-2.5			
	PEQ2 Freq. (Hz)	---	48.4	50.0	130	3.37k	130	3.37k			
	PEQ2 BW (Oct)	---	0.3	0.4	1.0	0.5	1.0	0.5			
	PEQ2 Level (dB)	0	-1.5	0	+1.5	-2.5	+1.5	-2.5			
	LEQ Freq. (Hz)	---	75.0	75.0	610	1.00k	610	1.00k			
	LEQ BW, SL (Oct, dB/Oct)	---	0.7	0.7	0.7	2.0	0.7	2.0			
	LEQ Level (dB)	0	0	0	-1.5	0	-1.5	0			
HEQ Freq. (Hz)	---	500	500	610	15.0k	610	15.0k				
HEQ BW, SL (Oct, dB/Oct)	---	0.7	0.7	6HSF	1.0	6HSF	1.0				
HEQ Level (dB)	0	0	0	-3.5	+9.0	-3.5	+9.0				
Dynamics Menu	Comp. Thresh. (dBu)	+10.0	+10.0	+10.0	+10.0	+10.0	+10.0	+10.0			
	Comp. Ratio (X:1)	2	2	2	2	3	2	3			
	Comp. Attack (mS)	10	10	10	10	1	10	1			
	Comp. Release (mS)	200	200	200	200	100	200	100			
	Gate Thresh. (dBu)	-80	-80	-80	-80	-80	-80	-80			
	Gate Range (dB)	Off	Off	Off	Off	Off	Off	Off			
	Gate Decay (dB/mS)	0.02	0.02	0.02	0.04	0.06	0.04	0.06			
Knob	Limiter Thresh. (dBu)	+6.0	+6.0	+6.0	+5.0	+3.0	+5.0	+3.0			
	Output Knobs (dB)	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0			
Options Menu	Input Knobs (dB)	A: 0 B: 0			A: 0 B: 0						
	Limiter Thresh. Reference	dBu (0dBu=.775v)			dBu (0dBu=.775v)						
	Comp. Thresh. Ref. & Link.	dBu (0dBu=.775v)			No Linkage			dBu (0dBu=.775v)		No Linkage	
	Output Meter Reference	dB from Limit			dB from Limit						
	Output Meter Peak Hold	Auto Clear			Auto Clear						
Delay Units & Temp. Comp.	uSec			20 Deg C Set			uSec			20 Deg C Set	
Maximum Output Voltage	2.45v: Power Amp (+10.0 dBu)			2.45v: Power Amp (+10.0 dBu)							

See Xi-1191 Subwoofer Parameter Section for Normal Tuning & Step-Down Tuning

1. Use closest available value.