

**REVERB-1**

1	<b>Church 1</b>	Very bright long reverb for everything
2	<b>Church 2</b>	Warm reverb for everything
3	<b>480 Hall</b>	General purpose bright plate
4	<b>VocalDry</b>	Plate for vocal
5	<b>VocalWet</b>	Plate for vocal / everything
6	<b>ManInBox</b>	Dry stereo spread environment
7	<b>Locker</b>	Environment for perc.
8	<b>DryHouse</b>	Short bright stereo spread
9	<b>WetHouse</b>	For vocal / guitar
10	<b>Stage</b>	Environment program
11	<b>Rattle</b>	Low density program for vocal / inst.
12	<b>ShortCut</b>	Short percussion reverb
13	<b>SlapHall</b>	Slapback type rev. for vocal / inst.
14	<b>Ugly 1</b>	Short mellow room for ie. BD
15	<b>Ugly 2</b>	As 14, but longer

**REVERB-2**

16	<b>WoddFlr</b>	Small room
17	<b>StoneWal</b>	Small room
18	<b>HardRoom</b>	Small room
19	<b>Soft-1</b>	Small room
20	<b>Soft-2</b>	Small room
21	<b>Water</b>	Effect
22	<b>Nuclear</b>	Effect
23	<b>Tunnel</b>	Stereo tunnel effect
24	<b>Concret1</b>	Concrete room
25	<b>Concret2</b>	Concrete room
26	<b>BigLead</b>	Big guitar concert sound
27	<b>AutoPark</b>	Large autopark
28	<b>Vocal1</b>	For vocal
29	<b>Vocal2</b>	For vocal
30	<b>Vocal3</b>	For vocal
31	<b>Egg Cups</b>	For short percussive sound
32	<b>PeterGun</b>	Good for blending guitars into mix
33	<b>Bright</b>	Discreet hall, without losing def.
34	<b>Warm</b>	A bright warmth to Brass and sax
35	<b>Cold</b>	Remove harshness from HH & Cymb.

36	<b>Perc.1</b>	Allround for kick, snare and toms
37	<b>Crisp</b>	Deep reverb for full drumkit
38	<b>TajMahal</b>	Long rolling reverb
39	<b>Ambience</b>	Natural club sized room acoustics

**REVERB-3**

40	<b>GM-Hall</b>	Warm reverb for various purposes; vocals
41	<b>Ovrmuch2</b>	Effect, replaces old REVERB-1 preset
42	<b>WoodHall</b>	Warm reverb for harpe and guitar
43	<b>RichVerb</b>	Short and bright. Good for almost anything
44	<b>BigBlue2</b>	Warm reverb, replaces old REVERB-1 preset
45	<b>Locker2</b>	Short reverb with early reflections; vocal, guitar
46	<b>5000Hall</b>	Bright reverb for general puposes; vocal, drums
47	<b>SteelPit</b>	Emul. of EMT140 (tube) steelplate. Try also w. pre-delay
48	<b>GoldPit</b>	Emul. of EMT240 goldplate. Try also with pre-delay
49	<b>PercVerb</b>	Short, general purpose reverb. Percussion and drums
50	<b>KickVerb</b>	Very short deep reverb. Kickdrums and Toms.
51	<b>Dense-1</b>	Bright hall without modulation

**NONLIN-1**

52	<b>KitPig1</b>
53	<b>KitPig2</b>
54	<b>SoBad</b>
55	<b>Shapelt</b>
56	<b>Closet</b>
57	<b>Rumble</b>
58	<b>Reverse</b>

**CHORUS-1**

59	<b>The King</b>	Delay + stereo spread for vocal / guitar
60	<b>VocDelay</b>	Delay + stereo spread for vocal / guitar
61	<b>Echoplex</b>	Old tape echo with wow and flutter
62	<b>2Track</b>	Double track with stereo spread
63	<b>SlowMo</b>	Slow Chorus
64	<b>Flanger</b>	Normal Flanger
65	<b>Hi-Trash</b>	Flanger with high pitch feedback
66	<b>Lo-Trash</b>	Flanger with low pitch feedback
67	<b>Plain</b>	Normal Chorus
68	<b>Seashore</b>	Just a feeling
69	<b>Flow</b>	Chorus with delay for a slow guitar

**REVPITCH**

70	<b>Wide</b>	Stereo spread
71	<b>Wide+Amb</b>	Like #70 + ambience
72	<b>Funky</b>	Funky guitar

**PITCH-1**

73	<b>Slapitch</b>	Slap Guitar
74	<b>PowerOct</b>	Octave below
75	<b>Valley</b>	Detuned room
76	<b>Climb</b>	Pitch climbing up
77	<b>Barbshop</b>	Minor 3rd blw, 5th abv.
78	<b>Fifths</b>	5th above and below
79	<b>Octave+</b>	Octave above
80	<b>Chord</b>	Major triad chord
81	<b>Horror</b>	Spacey pitch
82	<b>Steel</b>	Metallic pitch
83	<b>WideBass</b>	Chorus for bass
84	<b>VocalFml</b>	Pitch for female vocal
85	<b>Vocals</b>	General vocal pitch

**PITCH-2**

86	<b>Stereo</b>
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**DELAY-1**

87	<b>Straight</b>
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**DELAY-2**

88	<b>Mod-Echo</b>	
89	<b>Apollo</b>	Soundscape
90	<b>Shuffle</b>	Rhythm delay
91	<b>Country</b>	For slide/steelguitar
92	<b>DlySite</b>	Guit. chords and tones
93	<b>Expand</b>	Exp. Stereo image
94	<b>SoftEnd</b>	Mellow guitar delay
95	<b>ExpDelay</b>	Wide chorus delay
96	<b>ChorEcho</b>	Chorus on echotail
97	<b>Spatial</b>	TC 1210 effect
98	<b>DelayPan</b>	TC 1210 effect

**SAMPLE-1**

99	<b>Sample</b>	Standard sampler
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**AMBIENCE**

100	<b>TlfBooth</b>	Environmental - Telephone booth
101	<b>TileBath</b>	Environmental - Bathroom with tiles
102	<b>LongTube</b>	Environmental - Sewer tube
103	<b>Festival</b>	Environmental - Big Rock'n'roll festival
104	<b>NextDoor</b>	Environmental - The neighbors having a party
105	<b>Garage</b>	Environmental
106	<b>Van1</b>	Environmental - frontseat sound '67VWvan
107	<b>Van2</b>	Environmental - luggage compartment with no interior '67VWvan
108	<b>SlugBug</b>	Environmental - VolksWagen
109	<b>Wreck</b>	Environmental - Bad car stereo
110	<b>Studio1</b>	General purpose ambience
111	<b>Studio2</b>	General purpose ambience

**TAPFAC**

112	<b>MoneyBox</b>
113	<b>Atmosph1</b>
114	<b>MultiTap</b>
115	<b>BeatBox1</b>
116	<b>BeatBox2</b>
117	<b>FiamBeat</b>

**PAREQ**

118	<b>ParEq</b>
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**REVCORE-1**

119	<b>TrueRoom</b>
120	<b>HomeRoom</b>
121	<b>WoodChmb</b>
122	<b>Goldfoil</b>
123	<b>The Shop</b>
124	<b>Fridge</b>
125	<b>COREroom</b>
126	<b>DrewRoom</b>
127	<b>X&amp;Y Mics</b>
128	<b>Closet</b>
129	<b>NewBooth</b>
130	<b>Stage</b>
131	<b>At Home</b>

**REVCORE2**

132	<b>InstRoom</b>
133	<b>DarkRoom</b>
134	<b>DarkHall</b>
135	<b>PercRoom</b>
136	<b>LiveRoom</b>
137	<b>Chuch 3</b>
138	<b>WoodRoom</b>

**PHASER-1**

139	<b>Phase 1</b>
140	<b>Trash</b>
141	<b>Sgt.#1</b>
142	<b>Sgt.#2</b>
143	<b>Deep #1</b>
144	<b>Deep #2</b>
145	<b>Deep #3</b>

**DYNAMIC1**

200	<b>1BandCom</b>
201	<b>2BandCom</b>
202	<b>3BandCom</b>
203	<b>TapeSim1</b>
204	<b>TapeSim2</b>
205	<b>Loudness</b>
206	<b>RockLim1</b>
207	<b>Hi-Fi</b>
208	<b>Gain</b>
209	<b>ComPand</b>
210	<b>EasyExp1</b>
211	<b>SoftLim</b>
212	<b>RecComp1</b>
213	<b>CDMaster</b>

**TOOLBOX**

214	<b>Neutral</b>
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# REVCORE-1 algorithm programs



	PAGE		1A	1B	2A	2B	2C	2D	2E	2F	3A	3B	3C	3D	3E	4A	4B	5A	5B	5C	5C
No	Name	Notes	Mix	In	Out	Decay	xLow	xHigh	InitLev	RevLev	Lm-Xovr	Mh-Xovr	Shape	Xsize	PreDly	RevFeed	Hicut	Att	Spread	DiffTyp	R-Width
#	8 CHAR.		%	dB	dB	s			dB	dB	Hz	Hz		x	ms	ms	Hz	dB			%
119	TrueRoom		34	0	0	0.5	0.61	0.47	-14	0	800	4	Hall	0.25	0	0	3.15	-31.5	1	1	100
120	HomeRoom		24	0	0	0.7	0.92	0.75	-10.5	0	125	3.15	Prism	0.4	0	0	4	-31.5	1	1	100
121	WoodChmb		39	0	0	1.4	0.7	0.77	-10.5	0	100	3.15	Fan	0.4	7.3	0	2.5	-23	1	1	63
122	Goldfoil		36	0	0	2.2	1.09	1.18	off	0	315	10	Fan	0.4	7.3	0	8	-23	1	1	100
123	The Shop		31	0	0	2.2	0.59	0.33	-4.5	0	1.25	2.5	H.shoe	0.25	41.5	0	4	-10.5	1	1	100
124	Fridge		33	0	0	0.4	0.83	0.27	-11.5	0	800	3.15	Prism	0.4	0	0	4	-31.5	1	1	84
125	COREroom		38	0	0	0.4	0.79	0.64	-11	0	500	5	Small	0.5	0	0	1.6	-25	1	1	100
126	DrewRoom		44	0	0	0.9	0.01	0.57	-8	0	32	3.15	Small	0.5	0	0	4	-14	1	1	93
127	X&Y Mics		27	0	0	0.3	0.59	0.07	-5	0	250	1.6	H.shoe	0.125	0	0	Flat	-37.5	1	1	100
128	Closet		39	0	0	0.4	0.88	0.13	-7.5	0	800	2	Small	0.316	1.1	0	4	-31.5	1	1	84
129	NewBooth		41	0	0	0.5	0.66	0.47	-16	0	500	2	Prism	0.16	0	0	5	-34	1	1	100
130	Stage		34	0	0	2.2	0.82	0.5	-9	0	800	2.5	H.shoe	0.63	19.3	7.1	2.5	-39	1	1	100
131	At Home		37	0	0	0.5	0.59	0.28	-18	0	160	4	Fan	0.316	1.1	0	2.5	-31	1	0	49

# REVERB-1 algorithm programs



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No	Name	Notes	Mix	In	Out	Decay	xLow	xHigh	Diffuse	Shape	xSize	PreDly	RevFeed	HiCut	Att	Lo-Xovr	Hi-Xovr	InitLev	RevLev	RWidth	I-XFeed
#	8 CHAR.		%	dB	dB	s					x	ms	ms	Hz	dB	Hz	Hz	dB	dB		
1	Church 1	Very bright long reverb for everything	25	0	0	4.2	0.7	0.18	11	fan	1.25	30	0	500	-30	125	8K	0	0	100	on
2	Church 2	Warm reverb for everything	20	0	0	2	1.2	0.6	11	h.shoe	0.63	27	50	3K15	0	315	8K	-4	0	100	on
3	480 Hall	General purpose bright plate	20	0	0	3.5	1	0.45	13	fan	0.8	30	20	6K3	-1.5	250	8K	0	-2	100	on
4	VocalDry	Plate for vocal	30	0	0	0.6	1	0.4	6	hall	0.4	18	15	2K5	-6	250	8K	0	-12.5	75	on
5	VocalWet	Plate for vocal / everything	25	0	0	1.2	0.6	0.6	11	h.shoe	0.63	0	50	3K15	-8	500	6K3	-4	0	100	on
6	ManInBox	Dry stereo spread environment	40	0	0	0.3	0.2	1.5	6	hall	0.2	20	26	4K	-6	250	8K	0	-12	70	on
7	Locker	Environment for perc.	25	0	0	0.8	0.9	0.8	6	prism	0.4	4	0	4K	-24	3K15	3K15	0	-6	70	on
8	DryHouse	Short bright stereo spread	25	0	0	0.5	1	0.4	6	hall	0.63	22	0	6K3	-6	250	8K	0	-10	20	on
9	WetHouse	For vocal / guitar	30	0	0	1.4	1	0.4	8	hall	0.63	22	0	6K3	-6	250	8K	0	-10	20	on
10	Stage	Environment program	20	0	0	2	1	0.38	7	hall	0.63	22	75	2K5	-20	250	8K	0	0	85	on
11	Rattle	Low density program for vocal / inst.	25	0	0	1.4	1	0.4	1	h.shoe	2.5	18	18	4K0	-6	250	8K	0	-10	100	on
12	ShortCut	Short percussion reverb	30	0	0	0.3	1	1	6	h.shoe	0.63	7	40	5K	-25	250	5K	-5	0	70	on
13	SlapHall	Slapback type rev. for vocal / inst.	30	0	0	1	1	0.45	6	hall	0.316	120	60	6K3	-6	250	8K	0	0	90	on
14	Ugly 1	Short mellow room for fx. BD	30	0	0	1	0.65	0.45	5	prism	1.25	10	30	800	-30	800	800	0	-3	70	on
15	Ugly 2	As 14, but longer	30	0	0	1	1	0.1	5	hall	1.25	10	30	800	-30	800	8K	0	-3	60	on

Created by Thomas Olesen, Tom Andersen and Ivar Iversen in FEEDBACK Studio 1+2, Aarhus, Denmark.

**t.c. electronic**



# REVERB-2 algorithm programs



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No	Name	Notes	Mix	In	Out	Decay	xLow	xHigh	Diffuse	Shape	Size	PreDly	Revfeed	Hicut	Att	LoXovr	HiXovr	InitLev	RevLev	Rwidth	I-XFeed	RevDiff	BuildUp	lAttack	lDecay
#	8 CHAR.		%	dB	dB	s	x	x	rel		x	ms	mS	hz	dB	hz	hz	dB	dB	%		%	%	dB	dB
31	Egg Cups	For short percussive sound	25	0	0	0.3	2	2	16	fan	4.00	55.2	26.9	16K	-19.5	2.5K	5K	-79	0	33	on	0	0	0	0
32	PeterGun	Good for blending guitars into mix	44	0	0	0.7	0.74	0.5	16	prism	0.63	8.2	40	4K	-19.5	20	200	off	0	50	on	0	0	0	0
33	Bright	Discreet hall, without loosing def.	13	0	0	3.2	1.28	0.64	9	fan	0.80	101.5	40	5K	-17	1K	8K	0	0	90	on	0	0	0	0
34	Warm	A bright warmth to Brass and sax	15	0	0	4.6	0.93	0.3	12	hall	0.63	74.2	44.8	2.5K	-25	250	3.15K	0	-2	93	on	0	0	0	0
35	Cold	Remove harshness from HH & Cym	17	0	0	2.3	0.9	0.58	6	prism	1.00	100	0	flat	0	2K	10K	0	-7	75	on	0	0	0	0
36	Perc.1	Allround for kick, snare and toms	45	0	0	0.8	1	1	16	fan	0.50	10	35.4	1.6K	-6	200	4K	0	0	75	on	0	0	0	0
37	Crisp	Deep reverb for full drumkit	16	0	0	3.2	0.69	1	10	fan	1.60	80	0	8K	-8	125	8K	0	0	100	on	0	0	0	0
38	TajMahal	Long rolling reverb	20	0	0	30	1	0.09	16	h.shoe	1.60	90.9	40.8	16K	-30	flat	630	0	0	56	on	0	0	0	0
39	Ambience	Natural club sized room acoustics	40	0	0	0.5	1	0.87	1	club	0.63	0	0	2K	-7.5	125	3.15K	-1	-4	100	on	0	88	-10	-4











# PITCH-1 algorithm programs

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No	Name	Notes	Mix	Inlev	Outlev	Pitch-1	Fine-1	Pitch-2	Fine-2	Level-1	Pan-1	Level-2	Pan-2	Hicut-1	Att-1	Hicut-2	Att-2	FB-1	FB-2	Xfb1>2	Xfb2>1	Delay-1	Delay-2	Dgspeed	Polyspd	Polydly	Dgfltr	
#	8 CHAR.		%	dB	dB		%		%	%	%	%	%	Hz	dB	Hz	dB	%	%	%	%	mS	mS					KHz
73	Slapitch	Slap Guitar	30	0	0	0	-10	0	0	0	50 R	0	50 L	10k	-30	10k	-30	50	50	0	100	10	84	0.50	50	18	2	
74	PowerOct	Octave below	45	0	0	-12	-1200	-12	-1200	0	50 L	0	50 R	flat	0	flat	0	0	0	0	0	0	0	0	0.10	20	18	2
75	Valley	Detuned room	20	0	0	0	-10	0	10	0	50 L	0	50 R	10	-40	10	-40	50	50	0	100	40	60	0.50	50	18	2	
76	Climb	Pitch climbing up	50	0	0	7	700	3	300	0	50 R	0	50 L	flat	0	flat	0	30	30	20	20	310	155	0.28	50	18	2	
77	Barbshop	Minor 3rd blw, 5th abv.	60	0	0	-3	-300	7	700	0	Center	0	Center	flat	0	flat	0	0	0	0	0	0	0	0	0.28	50	18	2
78	Fifths	5th above and below	50	0	0	6	690	7	710	0	50 R	0	50 L	flat	0	flat	0	0	0	0	0	0	0	0	0.28	50	18	2
79	Octave+	Octave above	35	0	0	11	1190	12	1200	0	50 R	0	50 L	flat	0	flat	0	0	0	0	0	0	0	0	0.28	50	18	2
80	Chord	Major triad chord	60	0	0	5	500	9	900	0	10 R	0	10 L	flat	0	flat	0	0	0	0	0	0	0	0	0.28	50	18	2
81	Horror	Spacey pitch	60	0	0	-1	-100	1	100	0	50 L	0	50 R	flat	0	flat	0	50	50	30	50	100	140	0.28	50	18	2	
82	Steel	Metallic pitch	50	0	0	11	1190	12	1200	0	50 L	0	50 R	flat	0	flat	0	20	20	50	60	50	50	0.28	50	18	2	
83	WideBass	Chorus for bass	40	0	0	0	8	0	-8	0	center	0	center	flat	0	flat	0	0	0	0	0	0	0	0	0.10	20	12	2
84	VocalFml	Pitch for female vocal	67	0	0	0	14	0	-13	0	50 L	0	50 R	6.3k	-6	6.3k	-3	0	0	0	0	0	0	0	0.20	20	10	2
85	Vocals	General vocal pitch	65	0	0	-3	-300	0	-18	-10	20 R	-6.5	20 L	6.3k	-20	6.3k	-20	0	0	0	0	0	0	0	0.20	20	18	2













# TAPFAC Algorithm presets

<b>Preset: 112</b>	<b>Use this preset for:</b>
MoneyBox	

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	
	50	0	0	

<b>2</b>	<b>Scale (%)</b>	<b>PreDly (ms)</b>	<b>Width (%)</b>	<b>LastTap</b>
	20	0	100	18

<b>3</b>	<b>Tap</b>	<b>Delay (ms)</b>	<b>Level (%)</b>	<b>Pan (±10)</b>
	1	3.4	32	8L
	2	15.5	71	4R
	3	31.5	63	7L
	4	33.9	56	5R
	5	38.1	50	10L
	6	59.2	45	10R
	7	55.6	40	4R
	8	83.4	35	10L
	9	84.5	31	10R
	10	93.6	28	5R
	11	134	25	7L
	12	152.9	22	5R
	13	205.2	20	6L
	14	248.7	18	5R
	15	293.2	16	6L
	16	400.3	14	7R
	17	493.4	12	6L
	18	615.3	11	7R

<b>4</b>	<b>LoCut (Hz)</b>	<b>Att (dB)</b>	<b>HiCut (Hz)</b>	<b>Att (dB)</b>
	20	0	6.3K	-40

<b>5</b>	<b>Speed (Hz)</b>	<b>Depth (%)</b>
	0.2	0

<b>Preset: 113</b>	<b>Use this preset for:</b>
Atmosph1	

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	
	50	0	0	

<b>2</b>	<b>Scale (%)</b>	<b>PreDly (ms)</b>	<b>Width (%)</b>	<b>LastTap</b>
	25	0	100	18

<b>3</b>	<b>Tap</b>	<b>Delay (ms)</b>	<b>Level (%)</b>	<b>Pan (±10)</b>
	1	5.5	32	8L
	2	29.3	71	4R
	3	44.5	63	7L
	4	63.3	56	6R
	5	78.5	50	10L
	6	91.6	45	10R
	7	106.8	40	4R
	8	140.6	35	10L
	9	179.3	31	10R
	10	210	28	6R
	11	253.9	25	7L
	12	297.5	22	5R
	13	327.8	20	6L
	14	385.8	18	5R
	15	430.8	16	6L
	16	479.9	14	7R
	17	555.4	12	6L
	18	621.6	11	7R

<b>4</b>	<b>LoCut (Hz)</b>	<b>Att (dB)</b>	<b>HiCut (Hz)</b>	<b>Att (dB)</b>
	20	0	2.5k	-20

<b>5</b>	<b>Speed (Hz)</b>	<b>Depth (%)</b>
	0.2	0



<b>Preset: 114</b>	<b>Use this preset for:</b>
MultiTap	

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	
	50	0	0	

<b>2</b>	<b>Scale (%)</b>	<b>PreDly (ms)</b>	<b>Width (%)</b>	<b>LastTap</b>
	100	0	100	18

<b>3</b>	<b>Tap</b>	<b>Delay (ms)</b>	<b>Level (%)</b>	<b>Pan (±10)</b>
	1	22.5	32	8L
	2	73.2	71	4R
	3	119.9	63	7L
	4	162.8	56	6R
	5	220.4	50	10L
	6	263.2	45	10R
	7	299.7	40	4R
	8	325.7	35	10L
	9	383.1	31	10R
	10	419.4	28	6R
	11	427.1	25	7L
	12	480.1	22	5R
	13	489.7	19	6L
	14	519	18	5R
	15	546.3	16	6L
	16	585.6	14	7R
	17	602.7	12	6L
	18	623	11	7R

<b>4</b>	<b>LoCut (Hz)</b>	<b>Att (dB)</b>	<b>HiCut (Hz)</b>	<b>Att (dB)</b>
	20	0	2.5k	-20

<b>5</b>	<b>Speed (Hz)</b>	<b>Depth (%)</b>
	0.2	0

# TAPFAC Algorithm presets



<b>Preset: 115</b>	<b>Use this preset for:</b>
BeatBox1	

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	
	50	0	0	

<b>2</b>	<b>Scale (%)</b>	<b>PreDly (ms)</b>	<b>Width (%)</b>	<b>LastTap</b>
	100	0	100	14

<b>3</b>	<b>Tap</b>	<b>Delay (ms)</b>	<b>Level (%)</b>	<b>Pan (±10)</b>
	1	100	70	10R
	2	100.7	70	10R
	3	100	63	10L
	4	200.6	56	10L
	5	300	50	10R
	6	300.8	45	10R
	7	400	40	10L
	8	400.5	35	10L
	9	400	31	10R
	10	400.7	28	10R
	11	500	22	10L
	12	500.4	22	10L
	13	600	19	10R
	14	600.5	19	10R
	15			
	16			
	17			
	18			

<b>4</b>	<b>LoCut (Hz)</b>	<b>Att (dB)</b>	<b>HiCut (Hz)</b>	<b>Att (dB)</b>
	20	0	2.5k	0

<b>5</b>	<b>Speed (Hz)</b>	<b>Depth (%)</b>
		0

<b>Preset: 116</b>	<b>Use this preset for:</b>
BeatBox2	

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	
	25	0	0	

<b>2</b>	<b>Scale (%)</b>	<b>PreDly (ms)</b>	<b>Width (%)</b>	<b>LastTap</b>
	77	0	100	4

<b>3</b>	<b>Tap</b>	<b>Delay (ms)</b>	<b>Level (%)</b>	<b>Pan (±10)</b>
	1	150	50	10L
	2	300	50	2L
	3	450	50	3R
	4	600	100	0
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			
	13			
	14			
	15			
	16			
	17			
	18			

<b>4</b>	<b>LoCut (Hz)</b>	<b>Att (dB)</b>	<b>HiCut (Hz)</b>	<b>Att (dB)</b>
	20	0	2.5k	0

<b>5</b>	<b>Speed (Hz)</b>	<b>Depth (%)</b>
		0

<b>Preset: 117</b>	<b>Use this preset for:</b>
FlamBeat	

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	
	34	0	0	

<b>2</b>	<b>Scale (%)</b>	<b>PreDly (ms)</b>	<b>Width (%)</b>	<b>LastTap</b>
	80	0	100	5

<b>3</b>	<b>Tap</b>	<b>Delay (ms)</b>	<b>Level (%)</b>	<b>Pan (±10)</b>
	1	150	80	10L
	2	300	100	10R
	3	465	100	10L
	4	35	100	10R
	5	35	100	0
	6			
	7			
	8			
	9			
	10			
	11			
	12			
	13			
	14			
	15			
	16			
	17			
	18			

<b>4</b>	<b>LoCut (Hz)</b>	<b>Att (dB)</b>	<b>HiCut (Hz)</b>	<b>Att (dB)</b>
	20	0	2.5k	0

<b>5</b>	<b>Speed (Hz)</b>	<b>Depth (%)</b>
	0.2	50

# DYNAMIC1 Algorithm



DIGITAL AUDIO MAINFRAME

<b>Preset: 200</b>	<b>Use this preset for:</b>		
1BandCom			

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0.0dB	0.0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0Hz	low-off	mid-off	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	0.0dB	0.0dB	0.0dB
	<b>0dB ref</b>	-8.0dB	-8.0dB	-8.0dB
	<b>Meters</b>	5dB	5dB	5dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-4.0dB	-4.0dB	-4.0dB
	<b>Ratio</b>	2.0>1	2.0>1	2.0>1
	<b>Gain</b>	2.0dB	2.0dB	2.0dB
	<b>Attack</b>	20ms	20ms	20ms
	<b>Release</b>	500ms	500ms	500ms
	<b>FeedFwd</b>	10.0ms	10.0ms	10.0ms
	<b>Crest</b>	RMS	RMS	RMS

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	0.0dB	0.0dB	0.0dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	1.4ms	1.4ms	1.4ms
	<b>Release</b>	1.4s	1.4s	1.0s
	<b>FeedFwd</b>	1.0ms	1.0ms	1.0ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-40.0dB	-40.0dB	-40.0dB
	<b>Ratio</b>	off	off	off
	<b>Attack</b>	1.0ms	1.0ms	0.3ms
	<b>Release</b>	1.0s	1.0s	1.0s
	<b>Range</b>	-30.0dB	-30.0dB	-30.0dB

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	on	10.0ms		

<b>Preset: 201</b>	<b>Use this preset for:</b>		
2BandCom			

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0.0dB	0.0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0Hz	low-off	400Hz	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	0.0dB	-0.5dB	-2.0dB
	<b>0dB ref</b>	-8.0dB	-8.0dB	-8.0dB
	<b>Meters</b>	5dB	5dB	5dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	0.0dB	-7.5dB	-6.5dB
	<b>Ratio</b>	2.0>1	2.0>1	2.0>1
	<b>Gain</b>	0.0dB	3.7dB	3.2dB
	<b>Attack</b>	20ms	20ms	20ms
	<b>Release</b>	500ms	500ms	500ms
	<b>FeedFwd</b>	10.0ms	10.0ms	10.0ms
	<b>Crest</b>	RMS	RMS	RMS

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	0.0dB	0.0dB	0.0dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	1.4ms	1.4ms	1.4ms
	<b>Release</b>	1.4s	1.4s	1.0s
	<b>FeedFwd</b>	1.0ms	1.0ms	1.0ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-40.0dB	-40.0dB	-40.0dB
	<b>Ratio</b>	off	off	off
	<b>Attack</b>	1.0ms	1.0ms	0.3ms
	<b>Release</b>	1.0s	1.0s	1.0s
	<b>Range</b>	-30.0dB	-30.0dB	-30.0dB

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	off	10.0ms		

<b>Preset: 202</b>	<b>Use this preset for:</b>		
3BandCom			

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0.0dB	0.0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0Hz	100Hz	3.15KHz	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	-2.0dB	-1.0dB	-1.0dB
	<b>0dB ref</b>	-8.0dB	-8.0dB	-8.0dB
	<b>Meters</b>	5dB	5dB	5dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-8.5dB	-2.5dB	-10.5dB
	<b>Ratio</b>	4.0>1	2.5>1	2.0>1
	<b>Gain</b>	6.3dB	1.5dB	5.2dB
	<b>Attack</b>	30ms	20ms	20ms
	<b>Release</b>	300ms	500ms	700ms
	<b>FeedFwd</b>	10.0ms	10.0ms	10.0ms
	<b>Crest</b>	RMS	RMS	RMS

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	0.0dB	0.0dB	0.0dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	1.4ms	1.4ms	1.4ms
	<b>Release</b>	1.4s	1.4s	1.0s
	<b>FeedFwd</b>	1.0ms	1.0ms	1.0ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-40.0dB	-40.0dB	-40.0dB
	<b>Ratio</b>	off	off	off
	<b>Attack</b>	1.0ms	1.0ms	0.3ms
	<b>Release</b>	1.0s	1.0s	1.0s
	<b>Range</b>	-30.0dB	-30.0dB	-30.0dB

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	off	10.0ms		

# DYNAMIC1 Algorithm



DIGITAL AUDIO MAINFRAME

<b>Preset: 203</b>	<b>Use this preset for:</b>
TapeSim1	

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0dB	0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0hz	400Hz	2.5KHz	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	0dB	-0.5dB	-3.5dB
	<b>0dB ref</b>	0dB	0dB	0dB
	<b>Meters</b>	10dB	10dB	10dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-14dB	-14dB	-18dB
	<b>Ratio</b>	1.6>1	1.6>1	1.8>1
	<b>Gain</b>	5.2dB	5.2dB	7.9dB
	<b>Attack</b>	3.0ms	2.0ms	1.4ms
	<b>Release</b>	1s	700ms	300ms
	<b>FeedFwd</b>	4.0ms	3.0ms	2.5ms
	<b>Crest</b>	12dB	12dB	12dB

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-1.5dB	-2.5dB	-4.0dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	100us	100us	50us
	<b>Release</b>	200ms	200ms	200ms
	<b>FeedFwd</b>	3.0ms	1.0ms	1.0ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>			
	<b>Ratio</b>	off	off	off
	<b>Attack</b>			
	<b>Release</b>			
	<b>Range</b>			

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	off	10ms		

<b>Preset: 204</b>	<b>Use this preset for:</b>
TapeSim2	

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0dB	0.0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0hz	315Hz	4KHz	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	-1.0dB	-3.5dB	-8.0dB
	<b>0dB ref</b>	0dB	0dB	0dB
	<b>Meters</b>	20dB	20dB	20dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-14dB	-14dB	-18dB
	<b>Ratio</b>	3.2>1	3.2>1	3.2>1
	<b>Gain</b>	9.6dB	9.6dB	12.3dB
	<b>Attack</b>	3.0ms	2.0ms	1.4ms
	<b>Release</b>	1.0s	700ms	300ms
	<b>FeedFwd</b>	4ms	3ms	2.5ms
	<b>Crest</b>	12dB	12dB	12dB

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-1.0dB	-1.0dB	-6.0dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	100us	100us	50us
	<b>Release</b>	300ms	140ms	50ms
	<b>FeedFwd</b>	0.1ms	0.1ms	0.1ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>			
	<b>Ratio</b>	off	off	off
	<b>Attack</b>			
	<b>Release</b>			
	<b>Range</b>			

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	off	3ms		

<b>Preset:</b>	<b>Use this preset for:</b>

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>			
	<b>0dB ref</b>			
	<b>Meters</b>			

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>			
	<b>Ratio</b>			
	<b>Gain</b>			
	<b>Attack</b>			
	<b>Release</b>			
	<b>FeedFwd</b>			
	<b>Crest</b>			

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>			
	<b>Ratio</b>			
	<b>Attack</b>			
	<b>Release</b>			
	<b>FeedFwd</b>			

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>			
	<b>Ratio</b>			
	<b>Attack</b>			
	<b>Release</b>			
	<b>Range</b>			

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		

# DYNAMIC1 Algorithm



DIGITAL AUDIO MAINFRAME

<b>Preset: 205</b>	<b>Use this preset for:</b>		
Loudness			

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0dB	0.0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0hz	200Hz	4.0KHz	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	1.0dB	-1.5dB	1.0dB
	<b>0dB ref</b>	-6dB	-6dB	-6dB
	<b>Meters</b>	10dB	10dB	10dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-10dB	-15dB	-12.5dB
	<b>Ratio</b>	8.0>1	3.2>1	5.6>1
	<b>Gain</b>	8.7dB	10.3dB	10.2dB
	<b>Attack</b>	2.0ms	2.0ms	2.0ms
	<b>Release</b>	50ms	1.0s	1.0s
	<b>FeedFwd</b>	1.0ms	10ms	10ms
	<b>Crest</b>	rms	peak	peak

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-2.0dB	-2.0dB	-2.0dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	50us	50us	50us
	<b>Release</b>	200ms	200ms	200ms
	<b>FeedFwd</b>	3.0ms	1.0ms	1.0ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>			
	<b>Ratio</b>	off	off	off
	<b>Attack</b>			
	<b>Release</b>			
	<b>Range</b>			

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	off	10ms		

<b>Preset: 206</b>	<b>Use this preset for:</b>		
RockLim1			

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0dB	0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0hz	400Hz	3.15KHz	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	-1.0dB	-3.0dB	-2.5dB
	<b>0dB ref</b>	-6dB	-6dB	-6dB
	<b>Meters</b>	10dB	10dB	10dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-13.5dB	-12dB	-15dB
	<b>Ratio</b>	32>1	32>1	32>1
	<b>Gain</b>	13.0dB	11.6dB	14.5dB
	<b>Attack</b>	10ms	10ms	10ms
	<b>Release</b>	1.0s	1.0s	1.0s
	<b>FeedFwd</b>	10ms	10ms	10ms
	<b>Crest</b>	12dB	12dB	12dB

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-4.5dB	-6.5dB	-8.0dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	100us	140us	100us
	<b>Release</b>	50ms	50ms	50ms
	<b>FeedFwd</b>	3.0ms	1.0ms	1.0ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>			
	<b>Ratio</b>	off	off	off
	<b>Attack</b>			
	<b>Release</b>			
	<b>Range</b>			

<b>2</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	off	10ms		

<b>Preset: 207</b>	<b>Use this preset for:</b>		
Hi-Fi			

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0dB	0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0Hz	63Hz	2.50KHz	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	-5.0dB	0.0dB	-3.0dB
	<b>0dB ref</b>	-8.0dB	-8.0dB	-8.0dB
	<b>Meters</b>	5dB	5dB	5dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-13.0dB	0.0dB	-16.0dB
	<b>Ratio</b>	8.0>1	2.5>1	2.0>1
	<b>Gain</b>	11.3dB	0.0dB	8.0dB
	<b>Attack</b>	30ms	20ms	20ms
	<b>Release</b>	500ms	500ms	700ms
	<b>FeedFwd</b>	10.0ms	10.0ms	10.0ms
	<b>Crest</b>	RMS	RMS	RMS

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	0.0dB	0.0dB	0.0dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	1.4ms	1.4ms	1.4ms
	<b>Release</b>	1.4s	1.4s	1.4s
	<b>FeedFwd</b>	1.0ms	1.0ms	1.0ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-40.0dB	-40.0dB	-40.0dB
	<b>Ratio</b>	off	off	off
	<b>Attack</b>	1.0ms	1.0ms	0.3ms
	<b>Release</b>	1.0s	1.0s	1.0s
	<b>Range</b>	-30dB	-30dB	-30dB

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	off	10.0ms		

# DYNAMIC1 Algorithm

<b>Preset: 208</b>	<b>Use this preset for:</b>
Gain	

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0.0dB	0.0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0Hz	low-off	mid-off	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	3.0dB	3.0dB	3.0dB
	<b>0dB ref</b>	-8.0dB	-8.0dB	-8.0dB
	<b>Meters</b>	5dB	5dB	5dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	0.0dB	0.0dB	0.0dB
	<b>Ratio</b>	off	off	off
	<b>Gain</b>	0.0dB	0.0dB	0.0dB
	<b>Attack</b>	30ms	20ms	20ms
	<b>Release</b>	500ms	500ms	700ms
	<b>FeedFwd</b>	10.0ms	10.0ms	10.0ms
	<b>Crest</b>	RMS	RMS	RMS

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	0.0dB	0.0dB	0.0dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	1.0ms	1.0ms	1.0ms
	<b>Release</b>	1.4s	1.4s	1.4s
	<b>FeedFwd</b>	1.0ms	1.0ms	1.0ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-40dB	-40dB	-40dB
	<b>Ratio</b>	off	off	off
	<b>Attack</b>	1.0ms	1.0ms	0.3ms
	<b>Release</b>	1.0s	1.0s	1.0s
	<b>Range</b>	-30.0dB	-30.0dB	-30.0dB

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	on	10.0ms		

<b>Preset: 209</b>	<b>Use this preset for:</b>
ComPand	

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0.0dB	0.0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0Hz	100Hz	3.15KHz	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	-2.0dB	-1.0dB	-1.0dB
	<b>0dB ref</b>	-8.0dB	-8.0dB	-8.0dB
	<b>Meters</b>	5dB	5dB	5dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-8.5dB	-2.5dB	-10.5dB
	<b>Ratio</b>	4.0>1	2.5>1	2.0>1
	<b>Gain</b>	6.3dB	1.5dB	5.2dB
	<b>Attack</b>	30ms	20ms	20ms
	<b>Release</b>	300ms	500ms	700ms
	<b>FeedFwd</b>	10.0ms	10.0ms	10.0ms
	<b>Crest</b>	RMS	RMS	RMS

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-1.5dB	-1.5dB	-1.5dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	1.4ms	1.4ms	1.4ms
	<b>Release</b>	1.4s	1.4s	1.4s
	<b>FeedFwd</b>	1.0ms	1.0ms	1.0ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-24.0dB	-24.0dB	-24.0dB
	<b>Ratio</b>	1>3.2	1>3.2	1>3.2
	<b>Attack</b>	0.3ms	0.3ms	0.3ms
	<b>Release</b>	1.0s	1.0s	1.0s
	<b>Range</b>	-40.0dB	-40.0dB	-40.0dB

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	off	10.0ms		



DIGITAL AUDIO MAINFRAME

<b>Preset: 210</b>	<b>Use this preset for:</b>
EasyExp1	

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0.0dB	0.0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0Hz	200Hz	1.60KHz	off

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	-3.0dB	-3.0dB	-6.0dB
	<b>0dB ref</b>	0.0dB	0.0dB	0.0dB
	<b>Meters</b>	10dB	10dB	10dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-14.0dB	-14.0dB	-18.0dB
	<b>Ratio</b>	2.0>1	2.0>1	2.5>1
	<b>Gain</b>	7.0dB	7.0dB	10.8dB
	<b>Attack</b>	3.0ms	2.0ms	1.4ms
	<b>Release</b>	1.0s	700ms	300ms
	<b>FeedFwd</b>	3.0ms	3.0ms	2.5ms
	<b>Crest</b>	12dB	12dB	12dB

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-1.5dB	-2.5dB	-4.0dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	100µs	100µs	50µs
	<b>Release</b>	300ms	140ms	70ms
	<b>FeedFwd</b>	0.2ms	0.2ms	0.2ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-32.0dB	-38dB	-46dB
	<b>Ratio</b>	1>2.0	1>2.0	1>2.0
	<b>Attack</b>	1.0ms	1.0ms	1.0ms
	<b>Release</b>	300ms	300ms	300ms
	<b>Range</b>	-20dB	-20dB	-20dB

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	off	3.0ms		



# DYNAMIC1 Algorithm

<b>Preset: 211</b>	<b>Use this preset for:</b>		
SoftLim			

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0.0dB	0.0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	2.0Hz	low-off	mid-off	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	4.0dB	4.0dB	4.0dB
	<b>0dB ref</b>	0.0dB	0.0dB	0.0dB
	<b>Meters</b>	10dB	10dB	10dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	0.0dB	0.0dB	0.0dB
	<b>Ratio</b>	off	off	off
	<b>Gain</b>	0.0dB	0.0dB	0.0dB
	<b>Attack</b>	3.0ms	2.0ms	1.4ms
	<b>Release</b>	1.0s	700ms	300ms
	<b>FeedFwd</b>	0.0ms	0.0ms	0.0ms
	<b>Crest</b>	12dB	12dB	12dB

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	0.0dB	0.0dB	0.0dB
	<b>Ratio</b>	off	off	off
	<b>Attack</b>	100µs	100µs	50µs
	<b>Release</b>	300ms	140ms	70ms
	<b>FeedFwd</b>	0.2ms	0.2ms	0.2ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-32.0dB	-38.0dB	-46dB
	<b>Ratio</b>	off	off	off
	<b>Attack</b>	1.0ms	1.0ms	1.0ms
	<b>Release</b>	300ms	300ms	300ms
	<b>Range</b>	-20.0dB	-20.0dB	-20.0dB

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	on	0.0ms		

<b>Preset: 212</b>	<b>Use this preset for:</b>		
RecComp1			

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>
	100%	0.0dB	0.0dB	center

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>
	8.0Hz	200Hz	2.00KHz	on

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>	-3.0dB	-3.5dB	-5.5dB
	<b>0dB ref</b>	0.0dB	0.0dB	0.0dB
	<b>Meters</b>	10dB	10dB	10dB

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-14.0dB	-14.0dB	-18.0dB
	<b>Ratio</b>	1.80>1	1.80>1	2.0>1
	<b>Gain</b>	6.2dB	6.2dB	9.0dB
	<b>Attack</b>	2.0ms	1.4ms	1.0ms
	<b>Release</b>	1.0s	700ms	300ms
	<b>FeedFwd</b>	2.0ms	1.4ms	0.5ms
	<b>Crest</b>	10dB	10dB	10dB

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-1.5dB	-2.5dB	-4.0dB
	<b>Ratio</b>	infin>1	infin>1	infin>1
	<b>Attack</b>	100µs	100µs	50µs
	<b>Release</b>	300ms	140ms	70ms
	<b>FeedFwd</b>	0.2ms	0.2ms	0.2ms

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>	-64dB	-64dB	-70dB
	<b>Ratio</b>	1>2.0	1>2.0	1>2.0
	<b>Attack</b>	1.0ms	0.7ms	0.5ms
	<b>Release</b>	700ms	700ms	700ms
	<b>Range</b>	-10dB	-10dB	-10dB

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		
	off	0.3ms		



DIGITAL AUDIO MAINFRAME

<b>Preset:</b>	<b>Use this preset for:</b>		

<b>1</b>	<b>MIX</b>	<b>INLEV</b>	<b>OUTLEV</b>	<b>Balance</b>

<b>2</b>	<b>LowCut</b>	<b>Lo-Xovr</b>	<b>Hi-Xovr</b>	<b>SoftClip</b>

<b>3</b>	<b>LEVELS</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Bnd-Lev</b>			
	<b>0dB ref</b>			
	<b>Meters</b>			

<b>4</b>	<b>COMPRES</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>			
	<b>Ratio</b>			
	<b>Gain</b>			
	<b>Attack</b>			
	<b>Release</b>			
	<b>FeedFwd</b>			
	<b>Crest</b>			

<b>5</b>	<b>LIMITER</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>			
	<b>Ratio</b>			
	<b>Attack</b>			
	<b>Release</b>			
	<b>FeedFwd</b>			

<b>6</b>	<b>EXPAND</b>	<b>low</b>	<b>mid</b>	<b>high</b>
	<b>Threshold</b>			
	<b>Ratio</b>			
	<b>Attack</b>			
	<b>Release</b>			
	<b>Range</b>			

<b>7</b>	<b>Par-Lnk</b>	<b>Nom-Dly</b>		

# APPENDIX C

If problems or questions arise regarding your M5000, please check the following before you contact your dealer, TC Distributor or TC's head office in Denmark:

HARDWARE CONFIGURATION:				
FRAME SERIAL NO:				
	NO: 1	NO: 2	NO: 3	NO: 4
ADA-1 SERIAL NO:				
DSP-2 SERIAL NO:				
DSP-1 SERIAL NO:				
5DISK SERIAL NO:		DISK TYPE: 720 Kb/1.44 Mb		DD/HD
MEMORY CARD TYPE:		SIZE:		

SOFTWARE CONFIGURATION	
BIOS VERSION: *	
APPL. SOFTWARE: **	

M5000 CONNECTIONS				
Analog IN:	YES	NO	Balanced	Unbalanced
Digital IN:	YES	NO	AES/EBU	SPDIF RCA/OPT.
Analog OUT:	YES	NO	Balanced	Unbalanced
Digital OUT:	YES	NO	AES/EBU	SPDIF RCA/OPT.
WHAT KIND OF EQUIPMENT IS CONNECTED TO THE M5000 ?				

DESCRIBE THE PROBLEM AND IN WHICH SITUATION IT OCCURS:

\* Refer to the 'SOFTWARE INSTALLATION'-module in the 'CONFIGURATION'-SECTION.

\*\* Switch the M5000 OFF. During next 'power on', software version is shown in the display for a few seconds.



## **SELF TEST PROCEDURE IN BIOS 1.07 or higher M5000**

The BIOS 1.07 (or higher) has built-in diagnostic test features. Hopefully you will never need them but they are implemented in order that the user can check the machine before it is sent for repair. Each time the M5000 is powered on, a quick test is done. These tests consist of the following steps:

- All 4 LEDs on the CPU board are turned on.
- Check BIOS EPROM checksum, if the checksum is bad LD1 on the CPU-board will turn on, and if the front panel is working then the preset LED's will show 'E01'. The M5000 will then halt.
- Part of the dynamic RAM is tested, if the RAM is bad LD2 on the CPU-board will turn on, and if the front panel is working then the preset LED's will show 'E02'. The M5000 will then halt.
- Contact to the LCD display is tested, if no contact is established LD1 and LD2 on the CPU-board will turn on, and if the front panel is working then the preset LEDs will show 'E03'. The M5000 will then halt.
- LD4 on the CPU-board will stay on showing power is on.

If any problems occurs during operation of the M5000, e.g. disk problems or MIDI communication the user can select 2 different test sessions to be run.

### **SESSION 1: Total CPU test.**

This session will run the following tests:

- 1. DYN RAM**
- 2. JEIDA MEMORY CARD SLOT**
- 3. EEPROM TEST**
- 4. EXTERNAL INTERRUPTS**
- 5. MIDI PORTS**
- 6. DISK DRIVE TEST**
- 7. MODULE CARD DETECTION (cannot detect DSP cards with a “+”)**

A MIDI cable must be connected from MIDI output to MIDI input in order to check the MIDI ports.

In order to test the disk drive, a formatted 720 Kb or 1.44 Mb disk must be inserted. **The data on the disk will be preserved.**

Keep BYPASS and EDIT pressed while turning power on. After a while the display will show:

M5000 diagnostics  
Please wait

Now release the keys.

The test will run by it self and if any errors are detected user will be prompted and asked to take action. It will be shown on the LCD display.

Before the JEIDA test, the user will be prompted :

JEIDA test will destroy all data on card  
Press DO to continue, UNDO to skip.

Insert a JEIDA memory card in the slot in order to check the Memory card slot.

**If DO is pressed the data on the JEIDA card will be lost**, if UNDO is pressed, this test will be skipped and the next test will be done.

When all tests are done and no errors were detected, the display will show :

Tests OK  
Press DO to continue (\*)

If any errors were detected the display will show:

Errors detected  
Press DO to continue (\*)

Pressing DO will result in the following message:

Push any key to detect Cards..  
Then push any key to continue..

The M5000 will look for installed cards, and show the type and address of the detected cards.

If one ADDA and one DSP are installed the display will show:

ADDA at addr 1    DSP at addr 0

Pressing DO will enter the service card software mode. This is for future use. At this point all tests are done, and the M5000 should be powered down.

## SESSION 2: Front panel test.

Keep BYPASS and PROGRAM pressed while turning power on. After a while the display will show:

Press DO and verify that LCD is filled with black squares. (then press DO/SW7)

Pressing DO should give the following display:

```
#####  
#####
```

Pressing DO now will continue the front test:

Verify BackLight & viewing angle knob.  
cw=black , ccw=white (then press DO/SW7)

Make sure that the green backlight is on. Turn the small viewing angle knob clockwise and verify that the display turns black, then turn the knob counterclockwise and verify that the display turns clear (green).

Now turn the knob to the position that gives you the best contrast.

Pressing DO will continue the front test:

Turn A and verify all LEDs  
0 Press DO/SW7 to continue

When turning knob A the LEDs on the front will turn on one at a time. Verify that all LED's on the front panel works, and that only one LED is on at a time.

Pressing DO will continue the front test:

Check if all LEDs are flashing  
(except meters) press DO/SW7

All LEDs on the front panel should now flash except the meters, which will be on all the time.

Pressing DO will continue the front test:

Try all encoders 0..9 Then press DO/SW7  
0 0 0 0 0

Try to turn all knobs and verify that numbers from 0 to 9 can be selected.

Pressing DO will continue the front test:

Try all keys  
NO KEY PRESSED

Press all keys - one at a time - and verify that the name of the key is shown in the display.

The front panel test is done. Turn power off.

**TROUBLESHOOTING/ERR. CODES****M5000**

<b>ERROR</b>	<b>DESCRIPTION</b>	<b>ACTION</b>
E01	EPROM checksum error (IC 31 & IC 32). The BIOS EPROMs may be defect or is badly connected in the socket.	Turn the M5000 off and on. If the error still is there, fill in the check form on page 1 and contact your dealer.
E02	Static RAM error (IC 22). The Static RAM may be defect or has a bad connection to the socket.	Turn the M5000 off and on. If the error still is there, fill in the check form on page 1 and contact your dealer.
E03	Bad contact between Display - CPU-board.	Turn the M5000 off and on. If the error still is there, fill in the check form on page 1 and contact your dealer.
E04	Internal error trap. A heavy line transient might cause these errors or bad internal connections.	Make note on the ALGO/PROGRAM you are running and the keys you pressed up to the error. Try to power off and the reestablish the error. If this is possible, please contact your dealer.
E05	Stack overflow in CPU (IC 4).	
E06	Multitask overflow in CPU (IC 4).	
#1 (LCD display)	EEPROM error (IC 14). Probably you will get a serial# type mismatch message as well on next power up.	Turn the M5000 off and on. If the error still is there, fill in the check form on page 1 and contact your dealer.
#2 (LCD display)	Flash PROM error (IC 23). The Flash PROM may be defect or has a bad connection in the socket.	Turn the M5000 off and on. If the error still is there, fill in the check form on page 1 and contact your dealer.
Serial information mismatch ...	RAM/Backup failure. Installed options are lost. Standard software can run with BIOS higher than 1.08.	Press as noted DO and write down the 16 character code and M5000 frame serial no (28 xx xx) and contact your dealer. In a tight situation you might press UNDO instead of DO and run the standard software (BIOS higher than 1.08), however, it may need to be re-installed. The error message will appear on every power up.
Device is hanging after ADA-1 was removed (1.13)	While the ADA-1 was present the I/O selector was still set to A/A&D. It will expect analog input and there isn't any.	Reinstall the ADA-1 module again change the I/O selector from A/A&D to D/D mode. Then you can remove the ADA-1 module. This problem was fixed in software version 1.14.

APPENDIX C

M5TROUBL

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# APPENDIX D

## TECHNICAL SPECIFICATIONS

**M5000**

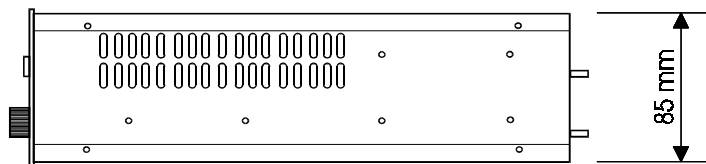
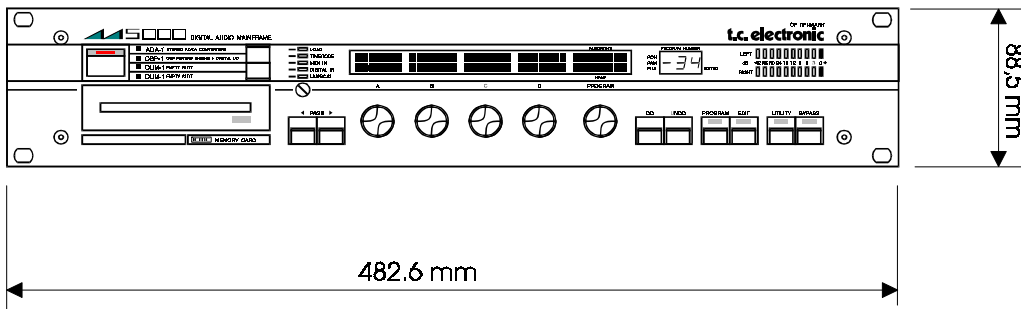
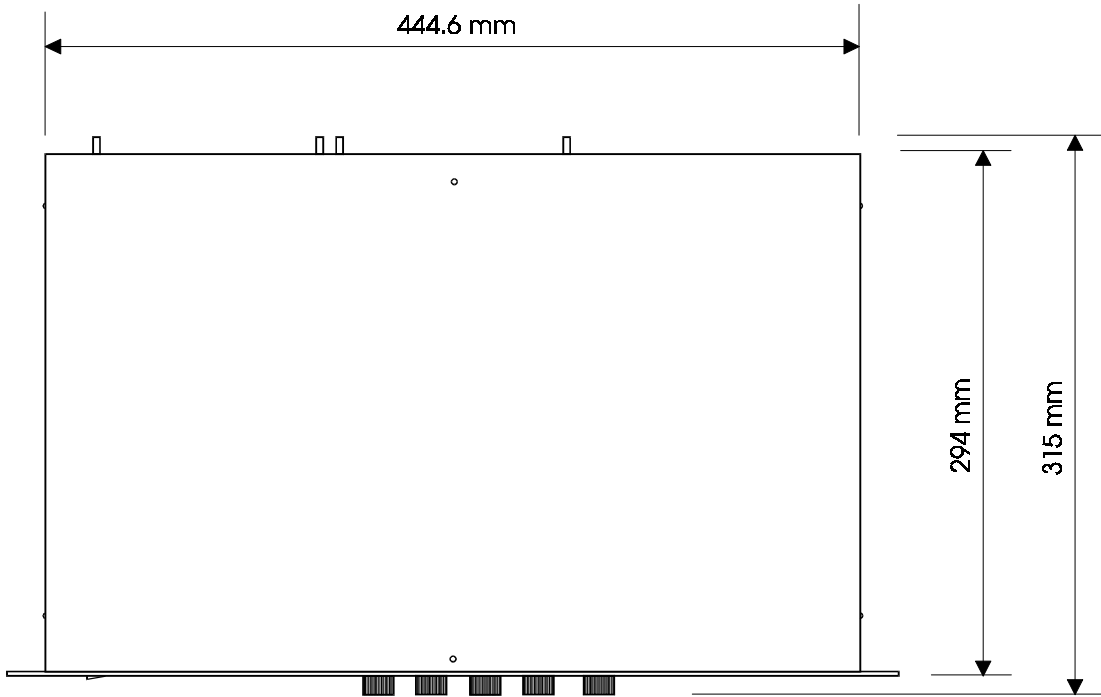
All Specs is measured with ADA-1 STEREO ANALOG IN/OUT module installed.

<b>Max. Input Level</b>	@ - 8 dB gain, + 22,0 dBu @ 0 dB gain, + 14,8 dBu @ 12 dB gain, + 2,8 dBu
<b>Input Impedance</b>	20 KOhm, electronically balanced, pin 2+, 3-
<b>Input Gain</b>	± 12 dB
<b>Input CMRR</b>	DC - 1 KHz, > 60 dB 1 KHz - 20 KHz, > 40 dB
<b>Max. Output Level</b>	+ 22 dBu
<b>Output Signal Balance</b>	>40 dB @ 1 KHz (BBC method)
<b>Output Impedance</b>	100 Ohm, electronically balanced, floating type, pin 2+, 3-
<b>Output Gain</b>	-18 dB to + 12 dB
<b>Frequency Response</b>	10-22 KHz, +0 -1 dB, Fs=48.0KHz 10-20 KHz, +0 -1 dB, Fs=44.1KHz 10-15 KHz, +0 -0.5 dB, Fs=32.0KHz
<b>Total Harmonic Dist.</b>	< 0.03 %, 1 KHz, 0 dBu
<b>Inter modulation Dist.</b>	< 0.03 %
<b>Dynamic Range</b>	> 98 dB
<b>Crosstalk</b>	< -80 dB @ 1 KHz
<b>Group Delay Linearity</b>	< 5 µS
<b>Phase Linearity</b>	Better than 5°
<b>Digital Conversion</b>	Input: Delta Sigma 64x oversampling, 18 bit res. Output: Linear 8x oversampling, 20 bit res.
<b>Sampling Rate</b>	48.0 KHz, 44.1 KHz, 32.0 KHz
<b>Environment</b>	Operating 0° to 50°, storage -20° to 60°
<b>Power Requirements</b>	100 - 240 Vac, 50-60 Hz

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<b>Power Consumption</b>	20 - 60 watts, depending on configuration
<b>Finish</b>	Black anodized aluminum face plate. Black painted steel top and bottom plate. Chromatic steel chassis.
<b>Net Weight</b>	8.6 kg (19 lbs)
<b>Shipping Weight</b>	10 kg (22 lbs)

**Due to continuous development, TC Electronic reserves the right to change specifications without further notice.**



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<b>Power Switch</b>	Rocker type
<b>Device Selector</b>	Selects the DSP to be controlled
<b>Edit Page</b>	Selects next or previous Edit Page
<b>Dials A, B, C, D</b>	Four dials for parameter editing
<b>Program Dial</b>	Control Program- recall, view and store
<b>Do, Undo</b>	Executes and cancels changes made
<b>Program</b>	Selects Program Algorithm Mode
<b>Edit</b>	Selects Edit Parameter Mode
<b>Utility</b>	Selects utility display
<b>Bypass</b>	Bypass of active devices
<b>Load LED</b>	Lit when parameters are updating
<b>Timecode LED</b>	Lit when receiving timecode
<b>MIDI In LED</b>	Lit when receiving MIDI
<b>Digital In LED</b>	Lit when receiving at digital inputs
<b>LAN/SCSI LED</b>	Lit when reading or writing data
<b>Parameter Display</b>	80 character alphanumeric display
<b>Algorithm/Program</b>	Displays algorithm type and program name
<b>Program Number</b>	3 digit program number display
<b>Input Level Meter</b>	Dual 10 segment LED



<b>MIDI</b>	In, Out and Thru
<b>Remote</b>	7-way custom RS-232 or RS485 In and Out, + power
<b>Pedal</b>	Programmable switch type, not implemented
<b>SMPTE</b>	Input for cue list management. The SMPTE jack plug must be an <b>unbalanced</b> connection with the <b>TIP = HOT</b> and the <b>RING = GROUND</b> . The SMPTE input accepts signals from -10 dBu and up
<b>OPTION</b>	For future options such as PCMCIA or SCSI, a Local Area Network option 2.5 Mbit/Sec. high speed data exchange between M5000 and Macintosh, Optical drive, Hard drive or another M5000

**AES/EBU In/Out**

XLR Professional Format. Sample rates between 32.0 KHz and 48.0 KHz

**Optical In/Out**

Optical Consumer Digital Format. Sample rates between 32.0 KHz and 48.0 KHz

**SPDIF In/Out**

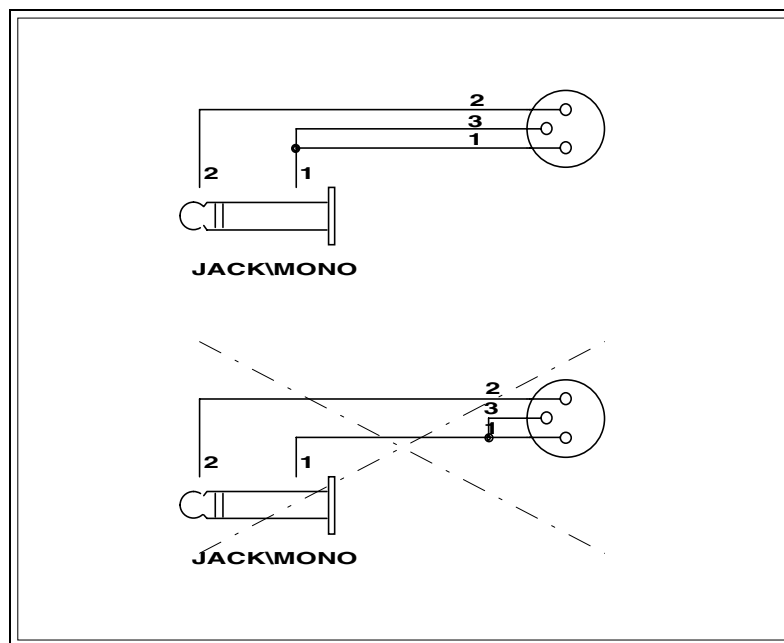
RCA Phono Consumer Digital Format. Sample rates between 32.0 KHz and 48.0 KHz

**Left & Right Input**

XLR 20 KOhm balanced. Max. input +22 dBu, pin 2 +, Pin 3 -.

**Left & Right Output**

XLR 100 Ohm balanced, floating type. Max. output +22 dBu, pin 2 +, Pin 3 -



To unbalance an input or output to the ADA-1 module, make that the the cable with the unbalancing pin 3/1 connection is made at the mono plug end of the cable, as shown on the figure. Pin 1 is the shield.

# APPENDIX E

## CABLES FOR DIGITAL AUDIO

**M5000**

In order to get a clean and noiseless digital signal flow the cable in which the digital signal is running has a great influence - especially over longer distances. Here is a list of cables recommended for digital interfaces by the corresponding manufacturer.

<b>AES/EBU PROFESSIONAL DIGITAL AUDIO</b>	
<b>Manufacturer</b>	<b>Type</b>
GOTHAM AG R'DORF, SWITZERLAND	GAC-2 (AES/EBU), 115ohm, +/-20%
NEGLEX – MOGAMI	3080 (AES/EBU), 110 ohm
GEPCO INT'L INC, CHICAGO	PN5524 – E131675 (ul), CM 24 AWG SHIELDED 75c
CANARE	105 AES/EBU
BELDEN	9860 (br. Sh.) 9271 (foil. Sh.), 124 ohm (Coaxial)
<b>SPDIF CONSUMER DIGITAL AUDIO</b>	
<b>Manufacturer</b>	<b>Type</b>
BELDEN	8217 OR 9259, 75OHM (Coaxial, RG-59/U-type)
TOSHIBA	TOCP174Y (OPTICAL)
SONY	POC-15 (OPTICAL)

Use always high-quality, low capacitance cables with fixed impedance (Coaxial), 110  $\Omega$  for AES/EBU and 75  $\Omega$  for SPDIF. There is no guarantee that it will work properly if an ordinary microphone cable is used for AES/EBU-communication or ordinary RCA cables for typical HI-FI equipment.

# APPENDIX F

**TC BBS**

**M5000**

The purpose of the TC Bulletin Board is to distribute new software, programs and presets for TC products and to share information between TC Electronic and the users of TC equipment.

In order to use the TC BBS you need the following:

1. An IBM<sup>tm</sup>, Atari<sup>tm</sup> or MAC<sup>tm</sup> computer.
2. A communication program such as Procomm, Crosstalk or one of several public domain programs.
3. A modem, (a modem is an interface for your computer that enables you to connect your computer to another computer through the telephone line).

In the communication program you have to set certain parameters: i.e. (for the bulletin board in Denmark) 300-14400 Baud, 8 Data bits, No parity and 1 Stop bit. You get the best result if you set your program to use the ANSI terminal emulator.

Depending on where you are in the world, you can call the following numbers:

<b>Bulletin Board</b>	<b>Number to call</b>	<b>Baud rate</b>	<b>Data bits</b>	<b>Parity</b>	<b>Stop bits</b>
TC Denmark	+45 86 26 28 99	300-14400	8	N	1
Germany <sup>1</sup>	+49 40 45 80 90	300-19200	8	N	1
TC USA	805-374 9343	300-14400	8	N	1

## Important!

Once you are connected to the bulletin board, you will be asked what the serial number of your M5000 frame is - so you better have that ready before calling, in order not to waste expensive on-line time while looking for the serial number on the M5000 - notice that you need the serial number from the frame - not the number from the modules - it will begin with 28x xxx.

When you are on-line, you will be guided through the menus and messages on the screen will explain what to do, when you want to download (receive) a program, read a message or leave a message etc.

On the bulletin board you will find the latest software version for the M5000 together with different utilities such as programs for dumping software to the M5000 from a computer through MIDI, program-files, newest information from TC and much more.

**Call the bulletin board NOW and see for yourself...**

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<sup>1</sup>ProAudio Net - A commercial BBS.

# APPENDIX M

## BIOS AND FLASH MINIMUM REQUIREMENT

The following table shows a connection between the released software versions and the BIOS versions. Also the required Flash EPROM size is shown:

SOFTWARE version	BIOS version	FLASH size
1.04	1.04	1 Megabit
1.06	1.04	1 Megabit
1.07	1.04	1 Megabit
1.09	1.04	1 Megabit
1.11	1.04	1 Megabit
1.12	1.04	1 Megabit
1.13	1.04	1 Megabit
1.14A (ATAC)	1.04	1 Megabit
1.15	1.04	1 Megabit
next release	2.00	2 Megabit

**Note: Some of the features in software version 1.14 and higher will not be supported in BIOS version 1.04. A list of such features are found in the following table:**

SOFTWARE version	FEATURES	Min. BIOS version	Min. FLASH size
x.xx	Self test proc.	1.07	1 Megabit
1.12	SAMPLING option	1.04	1 Megabit
1.13	MD2	1.04	1 Megabit
1.14	MD2	1.04	1 Megabit
1.14ATAC	ATAC support,	1.04*	1 Megabit
1.15	SAMPLER (SIMM) TOOLBOX** SMPTE PARAMETRIC EQ	2.00	2 Megabit

\* Updating to BIOS 2.00 will improve ATAC performance

\*\* Only if MD2 is installed

The software version is shown in the display during the power-on sequence of the M5000. The BIOS version and the Flash EPROM size are shown in the M5000 Setup Utility Menu. Refer to page 2 in the SOFTWARE INSTALLATION chapter in the CONFIGURATION section.

**All M5000s with a higher serial number than 281 000 are all updated with BIOS version higher than 2.0 and 2 Megabit FLASH EPROM size !**