REVE	RB-1		36	Perc.1	Allround for kick, snare and toms	REVPI	тсн	
1	Church 1	Very bright long reverb for everything	37	Crisp	Deep reverb for full drumkit	70	Wide	Stereo spread
2	Church 2	Warm reverb for everything	38	TajMahal	Long rolling reverb	71	Wide+Amb	Like #70 + ambience
3	480 Hall	General purpose bright plate	39	Ambience	Natural club sized room acoustics	72	Funky	Funky guitar
4	VocalDry	Plate for vocal	REVER	RB-3		PITCH	-1	
5	VocalWet	Plate for vocal / everything	40	GM-Hall	Warm reverb for various purposes; vocals	73	Slapitch	Slap Guitar
6	ManInBox	Dry stereo spread environment	41	Ovrmuch2	Effect, replaces old REVERB-1 preset	74	PowerOct	Octave below
7	Locker	Environment for perc.	42	WoodHall	Warm reverb for harpe and guitar	75	Valley	Detuned room
8	DryHouse	Short bright stereo spread	43	RichVerb	Short and bright. Good for almost anything	76	Climb	Pitch climbing up
9	WetHouse	For vocal / guitar	44	BigBlue2	Warm reverb, replaces old REVERB-1 preset	77	Barbshop	Minor 3rd blw, 5th abv.
10	Stage	Environment program	45	Locker2	Short reverb with early reflections; vocal, guitar	78	Fifths	5th above and below
11	Rattle	Low density program for vocal / inst.	46	5000Hall	Bright reverb for general puposes; vocal, drums	79	Octave+	Octave above
12	ShortCut	Short percussion reverb	47	SteelPlt	Emul. of EMT140 (tube) steelplate. Try also w. pre-delay	80	Chord	Major triad chord
13	SlapHall	Slapback type rev. for vocal / inst.	48	GoldPlt	Emul. of EMT240 goldplate. Try also with pre-delay	81	Horror	Spacey pitch
14	Ugly 1	Short mellow room for ie. BD	49	PercVerb	Short, general purpose reverb. Percussion and drums	82	Steel	Metallic pitch
15	Ugly 2	As 14, but longer	50	KickVerb	Very short deep reverb. Kickdrums and Toms.	83	WideBass	Chorus for bass
REVE	RB-2		51	Dense-1	Bright hall without modulation	84	VocalFml	Pitch for female vocal
16	WoddFlr	Small room	NONL	IN-1		85	Vocals	General vocal pitch
17	StoneWal	Small room	52	KitPig1		PITCH	-2	
18	HardRoom	Small room	53	KitPig2		86	Stereo	
19	Soft-1	Small room	54	SoBad		DELA	<b>/-</b> 1	
20	Soft-2	Small room	55	Shapelt		87	Straight	
21	Water	Effect	56	Closet		DELA		
22	Nuclear	Effect	57	Rumble		88	Mod-Echo	
23	Tunnel	Stereo tunnel effect	58	Reverse		89	Apollo	Soundscape
24	Concret1	Concrete room	CHOR			90	Shuffle	Rhythm delay
25	Concret2	Concrete room	59	The King	Delay + stereo spread for vocal / guitar	91	Country	For slide/steelguitar
26	BigLead	Big guitar concert sound	60	VocDelay	Delay + stereo spread for vocal / guitar	92	DlySite	Guit. chords and tones
27	AutoPark	Large autopark	61	Echoplex	Old tape echo with wow and flutter	93	Expand	Exp. Stereo image
28	Vocal1	For vocal	62	2Track	Double track with stereo spread	94	SoftEnd	Mellow guitar delay
29	Vocal2	For vocal	63	SlowMo	Slow Chorus	95 04	ExpDelay	Wide chorus delay
30	Vocal3	For vocal	64	Flanger	Normal Flanger	96	ChorEcho	Chorus on echotail
31	Egg Cups	For short percussive sound	65	Hi-Trash	Flanger with high pitch feedback	97	Spatial Dolay Pap	TC 1210 effect
32	PeterGun Priobt	Good for blending guitars into mix	66	Lo-Trash	Flanger with low pitch feedback	98 SAMB	DelayPan	TC 1210 effect
33 34	Bright Warm	Discreet hall, without loosing def.  A bright warmth to Brass and say	67 68	Plain Seashore	Normal Chorus  Just a feeling	SAMP 99	Sample	Standard sampler
35	warm Cold	A bright warmth to Brass and sax	69		· ·	77	sumple	aranaara sampier
აი	Cold	Remove harshness from HH & Cymb.	09	Flow	Chorus with delay for a slow guitar			

AMBIE	NCE		REVCC	RE2
100	TlfBooth	Environmental - Telephone booth	132	InstRoom
101	TileBath	Environmental - Bathroom with tiles	133	DarkRoom
102	LongTube	Environmental - Sewer tube	134	DarkHall
103	Festival	Environmental - Big Rock'n'roll festival	135	PercRoom
104	NextDoor	Environmental - The neighbors having a party	136	LiveRoom
105	Garage	Environmental	137	Chuch 3
106	Van1	Environmental - frontseat sound '67VWvan	138	WoodRoom
107	Van2	Environmental - luggage compartment with no interior '67VWvan	PHASE	R-1
108	SlugBug	Environmental - VolksWagen	139	Phase 1
109	Wreck	Environmental - Bad car stereo	140	Trash
110	Studio1	General purpose ambience	141	Sgt.#1
111	Studio2	General purpose ambience	142	Sgt.#2
TAPFA	С		143	Deep #1
112	MoneyBox		144	Deep #2
113	Atmosph1		145	Deep #3
114	MultiTap		DYNA	MIC1
115	BeatBox1		200	1BandCom
116	BeatBox2		201	2BandCom
117	FlamBeat		202	3BandCom
PAREG	1		203	TapeSim1
118	ParEq		204	TapeSim2
REVCC	DRE-1		205	Loudness
119	TrueRoom		206	RockLim1
120	HomeRoom		207	Hi-Fi
121	WoodChmb		208	Gain
122	Goldfoil		209	ComPand
123	The Shop		210	EasyExp1
124	Fridge		211	SoftLim
125	COREroom		212	RecComp1
126	DrewRoom		213	CDMaster
127	X&Y Mics		TOOLB	ОХ
128	Closet		214	Neutral
129	NewBooth			
130	Stage			

131 At Home

## **REVCORE-1 algorithm programs**



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	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		Х	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
	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
Щ																					

#### **REVERB-1 algorithm programs**



	PAGE		1A	1B	1C	2A	2B	2C	2D	3A	3B	3C	3D	4A	4B	4C	4D	5A	5B	5C	5C
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.		%	dΒ	dΒ	S					х	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.

# **REVERB-2 algorithm programs**



	PAGE	- 9	4 A	иы	1C	2A	2B	2C	2D	зА	3B	3C	3D	4A	4B	4C	4D	5A	5B	5C	5D	6A	6B	6C	6D
NI-		Notes	.00000000	00000								*************													
100000	Name 8 CHAR.	Notes				Decay			Diffuse	Shape		PreDly	Revfeed mS					InitLev	RevLev dB	Rwidth %	I-XFeea	RevDiff %	Bullaup %	IAttack dB	IDecay dB
#	8 CHAR.		70	uв	dΒ	S	X	X	rel		Х	ms	ms	hz	dB	hz	hz	dB	UБ	70		70	70	UБ	UB
16	WoddFlr	Small room	25	0	0	0.6	0.6	1.14	8	prism	1	13.9	7.2	flat	0	200	flat	-3	0	100	on	0	12	-3	-3
17	StoneWal	Small room	25	0	0	1	0.3	1	5	prism	0.08	50	17	flat	0	1K	8K	-0.5	0	63	on	0	0	0	0
18	HardRoom	Small room	25	0	0	0.5	0.09	1.16	10	prism	0.08	12	17	flat	0	1K	8K	-0.5	0	63	on	0	0	0	0
19	Soft-1	Small room	30	0	0	0.3	1	0.9	1	hall	0.1	0	0	2K	-6	250	2K	-5	0	80	on	0	0	0	-10
20	Soft-2	Small room	40	0	0	0.5	1	0.9	1	hall	0.1	0	0	2K	-6	250	2K	-5	0	80	on	0	0	0	-10
21	Water	Effect	60	0	0	3.2	2.5	1	16	fan	4	200	13	630	-30	100	125	0	0	100	on	0	0	0	0
22	Nuclear	Effect	80	0	0	30	2.5	1	16	h.shoe	4	200	100	500	-30	100	100	-97	0	100	on	0	0	0	0
23	Tunnel	Stereo tunnel effect	25	0	0	2.6	1	1	16	prism	4	160	9.4	flat	-3	20	3.15K	-0.5	0	13	on	0	0	0	-17
24	Concret1	Concrete room	60	0	0	1.9	0.9	2	8	prism	1.6	20	0	2K	-5	250	16K	0	-3	100	on	0	38	-6	-6
25	Concret2	Concrete room	30	0	0	1.9	0.9	2	8	prism	1.6	20	0	2K	-5	250	16K	0	-2.5	100	on	0	38	-6	-6
26	BigLead	Big guitar concert sound	35	0	0	3.1	0.67	1.42	7	h.shoe	2.5	66	7	6.3K	-6	200	2K	-2.5	-7	84	on	0	10	-40	-40
27	AutoPark	Large autopark	30	0	0	3.4	1.3	1.15	14	fan	1.6	135	10	10K	-1	250	5K	-25	-2	100	on	0	90	-10.5	-10
28	Vocal1	For vocal	34	0	0	1.5	1.19	0.7	11	h.shoe	0.63	27	70	3.15K	0	315	6.3K	-4	0	100	on	0	0	0	0
29	Vocal2	For vocal	34	0	0	2.4	1.19	0.65	11	h.shoe	0.63	27	70	1.6K	0	315	6.3K	-4	0	100	on	0	0	0	0
30	Vocal3	For vocal	34	0	0	1.5	1.2	0.8	16	prism	2	20	70	10K	-6	500	5K	0	0	100	on	0	0	0	0

# **REVERB-2 algorithm programs**



	PAGE		1A	1B	1C	2A	2B	2C	2D	ЗА	3B	3C	3D	4A	4B	4C	4D	5A	5B	5C	5D	6A	6B	6C	6D
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	IAttack	IDecay
#	8 CHAR.		%	dΒ	dΒ	s	×	х	rel		х	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
		-																				4 -		4	

## **REVERB-3 algorithm programs**



	PAGE		1A	1B	1C	2A	2B	2C	2D	3A	3B	3C	3D	4A	4B	4C	4D	5A	5B	5C
No	Name	Notes	Mix	In	Out	Decay	xLow	xLoMid	xHigh	Diffuse	Lo-Xovr	LM-Xovr	Hi-Xovr	Predly	Distans	HiCut	Att	ModRate	ModDpth	DifType
#	8 CHAR.		%	dΒ	dB	S	x	x	x		Hz	Hz	Hz	ms	dB	Hz	dΒ		%	
40	GM-Hall	Warm reverb for various purposes; vocals	55	0	0	5.9	0.01	1	0.07	58	20	200	4K	80	15	10K	-40	60	100	Smooth1
41	Ovrmuch2	Effect, replaces old REVERB-1 preset	55	0	0	7.5	0.7	1.68	0.4	85	63	1K	8K	20	15	2,5K	-7.5	27	24	Smooth2
42	WoodHall	Warm reverb for harpe and guitar	23	0	0	2.4	2.1	1.5	0.1	70	63	800	4K	25	13	2K	-15	22	60%	Smooth2
43	RichVerb	Short and bright. Good for almost anything	32	0	0	1.6	0.6	1	0.85	27	40	200	10K	1	15	4K	-6	70	95	Smooth1
44	BigBlue2	Warm reverb, replaces old REVERB-1 preset	25	0	0	3.5	0.8	1.3	0.3	45	125	630	4K	27	12	1,6K	-8	27	35	Short1
45	Locker2	Short reverb with early reflections; vocal, guitar	39	0	0	1.2	0.6	1.3	0.35	25	40	800	6,3K	6	7	2,5K	-6	28	55	Short2
46	5000Hall	Bright reverb for general puposes; vocal, drums	28	0	0	2.6	0.6	1	0.45	90	40	200	5K	12	14	4K	-5	27	65	Smooth1
47	SteelPlt	Emul. of EMT140 (tube) steelplate. Try also w. pre-delay	30	0	0	2.8	0.65	2.5	0.3	80	315	1,6K	2,5K	1	15	2,5K	-14	20	55	Short1
48	GoldPlt	Emul. of EMT240 goldplate. Try also with pre-delay	28	0	0	4.4	0.9	1.65	0.3	72	100	630	4K	1	15	5K	-12	12	30	Short1
49	PercVerb	Short, general purpose reverb. Percussion and drums	31	0	0	1.1	1.47	1.14	0.37	50	630	1,6K	4K	10	13	6,3K	-6.5	100	50	Smooth2
50	KickVerb	Very short deep reverb. Kickdrums and Toms.	39	0	0	0.6	2.5	1.14	0.56	50	200	1,6K	4K	10	13	8K	-9	100	50	Short2
51	Dense-1	Bright hall without modulation	55	0	0	4	1	1	1	61	20	200	16K	10	5	16K	-10	100	0	Smooth1

# NONLIN-1 algorithm programs



		- 9 - F - 9													AINFRAME
	PAGE 	N -	1A	1B	1C	2A	2B	2C	2D	3A	3C	4A	4B	4C	4D
	Name	Notes	Mix	InLev	OutLev	PreDly	Attack	Hold	Release	LoCut	HiCut	Diffuse	PreDiff	DifType	Width
7	8 CHAR.		%	dB	dB	ms	ms	ms	ms	dB	dB				%
52	KitPig1		30	0	0	22	22	42	210	20	6.3K	5	15	warm	100
53	KitPig2		30	0	0	0	100	10	175	100	8K	4	15	midtone	100
54	SoBad		30	0	0	0	27	172	0	20	6.3K	1	0	bright1	100
55	Shapelt		20	0	0	0	14	90	150	50	10K	1	60	bright1	100
56	Closet		40	0	0	0	0	40	50	100	2.5K	6	0	midtone	100
57	Rumble		30	0	0	0	27	60	170	32	2K	1	65	bright2	100
58	Reverse		30	0	0	0	200	50	0	20	6.3K	5	22	warm	100

## **CHORUS-1 algorithm programs**



	PAGE		1A	1B	1C	1D	2A	2B	2C	2D	3A	3B	3C	3D
No	Name	Notes	Mix	InLev	OutLev	Phase	Delay	FB	Speed	Depth	FbLoCut	FbHiCut	HiCut	Att
#	8 CHAR.		%	dB	dB	deg	ms	%	Hz	%	Hz	Hz	Hz	dB
59	The King	Delay + stereo spread for vocal / guitar	40	0	0	90	120	20	0.56	15	100	4K	6K3	-6
60	VocDelay	Delay + stereo spread for vocal / guitar	20	0	0	90	220	20	0.28	5	100	8K	10K	-6
61	Echoplex	Old tape echo with wow and flutter	35	0	0	90	425	35	0.141	20	400	2K	1K6	-18
62	2Track	Double track with stereo spread	40	0	0	90	40	20	0.28	5	100	8K	10K	-3
63	SlowMo	Slow Chorus	50	0	0	90	12	0	0.16	50	off	off	3K15	-10
64	Flanger	Normal Flanger	50	0	0	90	5	85	0.56	8	200	4K	off	off
65	Hi-Trash	Flanger with high pitch feedback	50	0	0	90	1	93	0.2	8	800	off	off	off
66	Lo-Trash	Flanger with low pitch feedback	50	0	0	90	1	99	0.2	13	off	1K	off	off
67	Plain	Normal Chorus	50	0	0	90	10	0	1	14	0	off	off	off
68	Seashore	Just a feeling	70	0	0	90	30	30	4	3	400	off	off	off
69	Flow	Chorus with delay for a slow guitar	40	0	0	90	370	31	1	14	200	off	off	off

#### **REVPITCH algorithm programs**



		orr argorn																								ILAM OLO	V
	PAGE		1A	1B	1C	2A	2B	2C	2D	3A	3B	3C	3D	4A	4B	4B	4D	5A	5B	5C	5D	6A	6B	6C	6D	6B	6D
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	Xfb 1>2	Xfb 2>1	Ambmix	Predly	Shape	xSize	PitcDly	PitcCft
#	8 CHAR.		%	dΒ	dB		%		%	%	%	%	%	Hz	dB	Hz	dB	%	%	%	%	%	mS		x	mS	ms
70	Wide	Stereo spread	40	0	0	0	8	0	-8	0	50R	0	50L	flat	0	flat	0	0	0	0	0	0	25	small	1.6	40	100
71	Wide+Amb	Like #70 + ambience	40	0	0	0	12	0	-12	0	50R	0	50L	8K	-3	8K	-3	7	10	10	8	35	25	small	2	40	100
72	Funky	Funky guitar	40	0	0	0	12	0	-12	0	50R	0	50L	flat	0	flat	0	7	10	0	0	35	80	delay	2.5	40	100

# PITCH-1 algorithm programs



	PAGE		1A	1B	1C	2A	2B	2C	2D	ЗА	3B	3C	3D	4A	4B	4B	4D	5A	5B	5C	5D	6A	6B	7A	7B	7C	7D
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	Dgfilt
#	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	0.10	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	0.28	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	0.28	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	0.28	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	0.28	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	0.10	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	0.20	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	0.20	20	18	2

## PITCH-2 algorithm programs



	PAGE																	1,	<b>A</b>	1B	1C	2A	2B	2C	2D	3A	3D	4A		4B	4B	4D
No	Name	)	N	otes														Mi	x lı	nlev	Outlev	Pitch	Fine	FB	Delay	Hicut	Att	Dgsp	eed	Polyspd	Polydly	Dgfilt
#	8 CHA	AR.																9/	)	dΒ	dB		%	%	mS	Hz	dB					Hz
86	Stereo	)																6	5	0	0	1	100	0	0	6,3K	-20	0.2		20	18	2K
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## **DELAY-1** algorithm programs



	PAGE		1A	1B	1C	2A	2B	2C	4A	4B	4B	4D
No	Name	Notes	Mix	InLev	OutLev	L-Delay	R-Delay	Fb	FbLocut	FbHicut	Hicut	Att
#	8 CHAR.		%	dB	dB	ms	ms	dB	Hz	Hz	Hz	dB
87	Straight		50	0	0	100	100	off	off	off	flat	0

# **DELAY-2 algorithm programs**



	PAGE		1A	1B	1C	2A	2B	2C	2D	3A	3B	3C	3D	4A	4B	4C	4D	5A	5B	5C	5D	6A	6B	6C	6D
No	Name	Notes	Mix	In	Out	Delay-1	Delay-2	HiCut	Att	Level-1	Pan-1	Level-2	Pan-2	Speed	Depth	Phase	Inv Pan	FB-1	FB-2	XFB 1>2	XFB 2>1	Lo-FB	Hi-FB	Lo-Xovr	Hi-Xovr
#	8 CHAR.		%	dΒ	dΒ	ms	ms	Hz	dB	dB	dB	dB	dB	Hz	%	deg	sw	%	%	%	%	dB	dB	Hz	Hz
88	Mod-Echo		50	0	0	320	300	flat	0	0	50 L	0	50 R	0.16	50	90	off	50	50	0	0	0	0	20	flat
89	Apollo	Soundscape	60	0	0	500	250	1,6K	0	0	50 L	0	50 R	0.125	40	90	off	40	55	60	-20	0	-6	20	16K
90	Shuffle	Rhythm delay	38	0	0	450	670	8K	0	0	50 L	0	50 R	0.1	20	180	on	20	20	50	-50	0	0	20	flat
91	Country	For slide/steelguitar	40	0	0	30	100	10K	0	0	50 L	0	50 R	0.316	60	180	on	20	20	50	-50	0	0	20	flat
92	DlySite	Guit. chords and tones	40	0	0	200	250	8K	0	0	50 L	0	50 R	0.1	100	0	off	30	30	20	-20	0	0	20	flat
93	Expand	Exp. Stereo image	60	0	0	10	75	flat	0	0	50 L	0	50 R	0.224	80	180	off	0	0	0	0	0	0	20	flat
94	SoftEnd	Mellow guitar delay	40	0	0	330	290	630	-32.5	0	50 L	0	50 R	0.1	60	90	off	40	40	40	-40	0	0	20	flat
95	ExpDelay	Wide chorus delay	42	0	0	250	255	10K	0	0	50 L	0	50 R	0.1	0	180	off	20	20	10	-10	0	0	20	flat
96	ChorEcho	Chorus on echotail	45	0	0	402	570	8K	0	0	50 L	0	50 R	0.125	70	180	on	30	30	20	-20	0	0	20	flat
97	Spatial	TC 1210 effect	100	0	0	11	8	flat	0	0	center	0	center	0.1	0	180	on	0	0	0	0	0	0	20	flat
98	DelayPan	TC 1210 effect	100	0	0	10	10	flat	0	0	50 L	0	50 R	0.4	9	90	off	0	0	0	0	0	0	20	flat

# **SAMPLE-1** algorithm programs.



	PAGE			1B	******************	2A	2B	2C	2D	3A	2D	30	3П	4A	4D	5A	5B	5C	5D	6A	6B	6C	6D
	Name	Notes												Recmode				Fadein				Deadbnd	Retrig
200000000000000000000000000000000000000	8 CHAR.		%		dB	- Ср.С	Mode	Sek.	<u> </u>	Sek.				Mode	On/Off	dB		sek.	sek.		dB	dB	Sek.
					0				d0		0	0	0		- 66						0.5	2	
99	Sample	Standard sampler	100	0	0	sample	None	0	ready?	0	U	0	0	mono	off	0	center	0	0.01	manual	-25	-3	0.1

# **AMBIENCE algorithm programs**



	PAGE		1A	1B	1C	2A	2B	2C	2D	3A	3B	3C	3D	4A	4B	4C
No	Name	Notes	Mix	In	Out	Shape	xSize	PreDly	Width	LoCut	Att	HiCut	Att	PreDly	Depth	PdlyMul
#	8 CHAR.		%	dΒ	dΒ	-	X	ms	%	Hz	dB	Hz	dB	ms	%	
100	TlfBooth	Environmental - Telephone booth	100	0	0	club	0.25	0	70	100	-5.5	1K	-4.5		0	x size
101	TileBath	Environmental - Bathroom with tiles	60	0	0	small	0.8	2	100	100	-5.5	1K	-2.5		0	x size
102	LongTube	Environmental - Sewer tube	95	0	0	fan	0.25	0	100	100	-5.5	1K	-2.5	0.18	25	x size
103	Festival	Environmental - Big Rock'n'roll festival	50	0	0	small	4	100	100	125	0	1K	-3	0.112	27	x size
104	NextDoor	Environmental - The neighbors having a party	100	0	0	small	0.04	0	0	40	0	1K	-40		0	x size
105	Garage	Environmental	50	0	0	hall	0.5	2	100	100	-5.5	1K	-0.5		0	x size
106	67VWvan1	Environmental - frontseat sound	100	0	0	prism	0.25	0	100	100	-3.5	1K	-4.5		0	x size
107	67VWvan2	Environmental - luggage compartment with no interior	100	0	0	prism	0.5	0	100	125	-5.5	1K	0		0	x size
108	SlugBug	Environmental - VolksWagen	100	0	0	club	0.25	0	100	100	-8.5	1K	-3.5		0	x size
109	Wreck	Environmental - Bad car stereo	100	0	0	prism	0.125	0	100	800	-19	1K	-0.5		0	x size
110	Studio1	General purpose ambience	35	0	0	hall	1.6	2	100	100	-5.5	1K	-3		0	x size
111	Studio2	General purpose ambience	40	0	0	hall	0.5	0	100	100	-5.5	1K	-3		0	x size

## **TAPFAC Algorithm presets**

Preset: 112	Use this preset for:
MoneyBox	

1	MIX	INLEV	OUTLEV	
	50	0	0	
H	Scale (%)	0		

18

6L

3 Тар	Delay (ms)	Level (%)	Pan (±10)
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

4	LoCut (Hz)	Att (dB)	HiCut (Hz)	Att (dB)
	20	0	6.3K	-40

12

400.3

493.4

615.3

5	Speed (Hz)	Depth (%)
	0.2	0

16 17

Preset: 113	Use this preset for:
Atmosph1	

1	MIX	INLEV	OUTLEV	
	50	0	0	

2	Scale (%)	PreDly (ms)	Width (%)	LastTap
	25	0	100	18

3	Tap	Delay (ms)	Level (%)	Pan (±10)
	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
4	LoCut (Hz)	Att (dB)	HiCut (Hz)	Att (dB)

4	LoCut (Hz)	Att (dB)	HiCut (Hz)	Att (dB)
	20	0	2.5k	-20
			_	

I	5	Speed (Hz)	Depth (%)	
		0.2	0	



Preset: 114	Use this preset for:
MultiTap	

1	MIX	INLEV	OUTLEV	
	50	0	0	

2	Scale (%)	PreDly (ms)	Width (%)	LastTap
	100	0	100	18

3	Tap	Delay (ms)	Level (%)	Pan (±10)
	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

4	LoCut (Hz)	Att (dB)	HiCut (Hz)	Att (dB)
	20	0	2.5k	-20

5	Speed (Hz)	Depth (%)	
	0.2	0	



#### **TAPFAC Algorithm presets**

	•	
Preset: 115	Use this preset for:	
BeatBox1		

1	1 N	ЛIX	INLEV	OUTLEV	
	,	50	0	0	

2	Scale (%)	PreDly (ms)	Width (%)	LastTap
	100	0	100	14

3	Tap	Delay (ms)	Level (%)	Pan (±10)
	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			
F				

4	LoCut (Hz)	Att (dB)	HiCut (Hz)	Att (dB)
	20	0	2.5k	0

5	Speed (Hz)	Depth (%)
		0

Preset: 116	Use this preset for:
BeatBox2	

1	MIX	INLEV	OUTLEV	
	25	0	0	
$\equiv$	•			

2	Scale (%)	PreDly (ms)	Width (%)	LastTap
	77	0	100	4

3	Tap	Delay (ms)	Level (%)	Pan (±10)
	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			
	1-0-4 (1-)	AH /JDX	LIICA AULA	AH /JD\

ı		20	U	2.0K
	5	Speed (Hz)	Depth (%)	



Preset: 117	Use this preset for:
FlamBeat	

1	MIX	INLEV	OUTLEV	
	34	0	0	

2	Scale (%)	PreDly (ms)	Width (%)	LastTap
	80	0	100	5

3	Tap	Delay (ms)	Level (%)	Pan (±10)
	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			

4	LoCut (Hz)	Att (dB)	HiCut (Hz)	Att (dB)
	20	0	2.5k	0

5	Speed (Hz)	Depth (%)	
	0.2	50	



Preset: 200	Use this preset for:
1BandCom	

_	1000/	00-10	00-10	
	100%	0.0dB	0.0dB	center
2	LowCut	Lo-Xovr	Hi-Xovr	SoftClip
	2.0Hz	low-off	mid-off	on

OUTLEV

Balance

3	LEVELS	low	mid	high
	Bnd-Lev	0.0dB	0.0dB	0.0dB
	0dB ref	-8.0dB	-8.0dB	-8.0dB
	Meters	5dB	5dB	5dB

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

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

EXPAND	low	mid	high
Threshold	-40.0dB	-40.0dB	-40.0dB
Ratio	off	off	off
Attack	1.0ms	1.0ms	0.3ms
Release	1.0s	1.0s	1.0s
Range	-30.0dB	-30.0dB	-30.0dB
	Threshold Ratio Attack Release	Threshold         -40.0dB           Ratio         off           Attack         1.0ms           Release         1.0s	Threshold         -40.0dB         -40.0dB           Ratio         off         off           Attack         1.0ms         1.0ms           Release         1.0s         1.0s

7	Par-Lnk	Nom-Dly	
	on	10.0ms	

Preset: 201		Use this pre	set for:	
2Bc	andCom			
1	MIX	INLEV	OUTLEV	Balance
	100%	0.0dB	0.0dB	center

2	LowCut	Lo-Xovr	Hi-Xovr	SoftClip
	2.0Hz	low-off	400Hz	on
3	LEVELS	low	mid	hiah
_				

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

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

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

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

7	Par-Lnk	Nom-Dly	
	off	10.0ms	



D	GITAL AUDIO MAINTHAML
Preset: 202	Use this preset for:
3BandCom	

ш	MIX	INLEV	OUILEV	Raiance
	100%	0.0dB	0.0dB	center
2	LowCut	Lo-Xovr	Hi-Xovr	SoftClip

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

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

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

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

7	Par-Lnk	Nom-Dly	
	off	10.0ms	

MIX

Preset: 203	Use this preset for:	
TapeSim1		

	100%	0dB	0dB	center
2	LowCut	Lo-Xovr	Hi-Xovr	SoftClip
	2.0hz	400Hz	2.5KHz	on

INLEV

OUTLEV

Balance

3	LEVELS	low	mid	high
	Bnd-Lev	0dB	-0.5dB	-3.5dB
	0dB ref	0dB	0dB	0dB
	Meters	10dB	10dB	10dB

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

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

6	EXPAND	low	mid	high
	Threshold			
	Ratio	off	off	off
	Attack			
	Release			
	Range			

7	Par-Lnk	Nom-Dly	
	off	10ms	

Pre	eset: 204	Use this pres	set for:	
	TapeSim2			
1	MIX	INLEV	OUTLEV	Balance
	100%	0dB	0.0dB	center
2	LowCut	Lo-Xovr	Hi-Xovr	SoftClip
	2.0hz	315Hz	4KHz	on
3	LEVELS	low	mid	high
	Bnd-Lev	-1.0dB	-3.5dB	-8.0dB
	0dB ref	0dB	0dB	0dB
	Meters	20dB	20dB	20dB
1	COMPRES	low	mid	high
7	Threshold	-14dB	-14dB	-18dB
	Ratio	3.2>1	3.2>1	3.2>1
	Gain	9.6dB	9.6dB	12.3dB
	Attack	3.0ms	2.0ms	1.4ms
	Release	1.0s	700ms	300ms
	FeedFwd	4ms	3ms	2.5ms
	Crest	12dB	12dB	12dB
5	LIMITER	low	mid	high
	Threshold	-1.0dB	-1.0dB	-6.0dB
	Ratio	infin>1	infin>1	infin>1
	Attack	100us	100us	50us
	Release	300ms	140ms	50ms
	FeedFwd	0.1ms	0.1ms	0.1ms
6	EXPAND	low	mid	high
1	Threshold			
1	Ratio	off	off	off
	Attack			
1	Release			
L	Range			
7	Par-Lnk	Nom-Dly		
ľ	off	3ms		
_				



Preset:

Use this preset for:

| NIX | INLEV | OUTLEY | Balance

2	LowCut	Lo-Xovr	Hi-Xovr	SoftClip
		000000000000000000000000000000000000000		

3	LEVELS	low	mid	high
	Bnd-Lev			
	0dB ref			
	Meters			

4	COMPRES	low	mid	high
	Threshold			
	Ratio			
	Gain			
	Attack			
	Release			
	FeedFwd			
	Crest			

5	LIMITER	low	mid	high
	Threshold			
	Ratio			
	Attack			
	Release			
	FeedFwd			

6	EXPAND	low	mid	high
	Threshold			
	Ratio			
	Attack			
	Release			
	Range			

7	Par-Lnk	Nom-Dly	

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MIX

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

	100%	0dB	0.0dB	center
2	LowCut	Lo-Xovr	Hi-Xovr	SoftClip
	2.0hz	200Hz	4.0KHz	on

INLEV OUTLEV

Balance

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

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

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

6	EXPAND	low	mid	high
	Threshold			
	Ratio	off	off	off
	Attack			
	Release			
	Range			

7	Par-Lnk	Nom-Dly	
	off	10ms	

Preset: 206	Use this preset for:
RockLim1	
1	INIEV OUTLEV Balance

	IVIIA	IINLEV	OUILEV	puluice
	100%	0dB	0dB	center
2	LowCut	Lo-Xovr	Hi-Xovr	SoftClip

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

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

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

6	EXPAND	low	mid	high
	Threshold			
	Ratio	off	off	off
	Attack			
	Release			
	Range			

2	Par-Lnk	Nom-Dly	
	off	10ms	



D	I G	IT.	ΑI	Α	ш	D	- 1	0	М	Α	1	N	F	R	Α	м	F

Preset: 207	Use this preset for:
Hi-Fi	

1	MIX	INLEV	OUTLEV	Balance
	100%	0dB	0dB	center
_				

2.0Hz 63Hz 2.50KHz on	2	LowCut	Lo-Xovr	Hi-Xovr	SoftClip
		2.0Hz	63Hz	2.50KHz	on
		Z.OTIZ	OOTIZ	2.001(112	OH

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

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

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

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

7	Par-Lnk	Nom-Dly	
	off	10.0ms	

MIX

Preset: 208	Use this preset for:	
Gain		

INLEV

OUTLEV

Balance

	100%	0.0dB	0.0dB	center
2	LowCut	Lo-Xovr	Hi-Xovr	SoftClip
	2.0Hz	low-off	mid-off	on
3	LEVELS	low	mid	high
	Bnd-Lev	3.0dB	3.0dB	3.0dB
	0dB ref	-8.0dB	-8.0dB	-8.0dB
	Meters	5dB	5dB	5dB

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

5	LIMITER	low	mid	high
	Threshold	0.0dB	0.0dB	0.0dB
	Ratio	infin>1	infin>1	infin>1
	Attack	1.0ms	1.0ms	1.0ms
	Release	1.4s	1.4s	1.4s
	FeedFwd	1.0ms	1.0ms	1.0ms
7				

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

7	Par-Lnk	Nom-Dly	
	on	10.0ms	

D.,	Preset: 209 Use this preset for:					
Pre	eset: 209	use this pres	ser for:			
	ComPand					
	Comi ana					
<u> </u>						
1	MIX	INLEV	OUTLEV	Balance		
	100%	0.0dB	0.0dB	center		
2	LowCut	Lo-Xovr	Hi-Xovr	SoffClip		
	2.0Hz	100Hz	3.15KHz	on		
3	LEVELS	low	mid	high		
ľ	Bnd-Lev	-2.0dB	-1.0dB	-1.0dB		
	0dB ref	-8.0dB	-8,0dB	-8,0dB		
	Meters	5dB	5dB	5dB		
4	COMPRES	low	mid	high		
	Threshold	-8.5dB	-2.5dB	-10.5dB		
	Ratio	4.0>1	2.5>1	2.0>1		
	Gain	6.3dB	1.5dB	5.2dB		
	Attack	30ms	20ms	20ms		
	Release	300ms	500ms	700ms		
	FeedFwd Crest	10.0ms RMS	10.0ms RMS	10.0ms RMS		
L	Cresi	KIVIS	KIVIS	KIVIS		
5	LIMITER	low	mid	high		
	Threshold	-1.5dB	-1.5dB	-1.5dB		
	Ratio	infin>1	infin>1	infin>1		
	Attack	1.4ms	1.4ms	1.4ms		
	Release	1.4s	1.4s	1.4s		
	FeedFwd	1.0ms	1.0ms	1.0ms		
6	EXPAND	low	mid	high		
	Threshold	-24.0dB	-24.0dB	-24.0dB		
	Ratio	1>3.2	1>3.2	1>3.2		
	Attack	0.3ms	0.3ms	0.3ms		
	Release	1.0s	1.0s	1.0s		
	Range	-40.0dB	-40.0dB	-40.0dB		
7	Par-Lnk	Nom-Dly				
ľ	off	10.0ms				
<u> </u>	OII	10.0110				



	DIG	i I I A L	ΑU	טוט	IVI A	4   1	1 +	н	А	M	t
Preset: 210		Use this	prese	t for:							
EasyExp1											

1	MIX	INLEV	OUTLEV	Balance
	100%	0.0dB	0.0dB	center
2	LowCut	Lo-Xovr	Hi-Xovr	SoffClip
	2.0Hz	200Hz	1.60KHz	off
3	LEVELS	low	mid	high
	Bnd-Lev	-3.0dB	-3.0dB	-6.0dB
	0dB ref	0.0dB	0.0dB	0.0dB
	Meters	10dB	10dB	10dB
4	COMPRES	low	mid	high
Ì	Threshold	-14.0dB	-14.0dB	-18.0dB
	Ratio	2.0>1	2.0>1	2.5>1
	Gain	7.0dB	7.0dB	10.8dB
	Attack	3.0ms	2.0ms	1.4ms
ı	Release	1 Os	700ms	300ms

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

3.0ms

12dB

FeedFwd Crest 3.0ms

12dB

2.5ms

12dB

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

Par-Lnk	Nom-Dly	
off	3.0ms	



MIX

<b>9</b>				
Preset: 211	Use this preset for:			
SoftLim				

2	LowCut	Lo-Xovr	Hi-Xovr	SoftClip
	2.0Hz	low-off	mid-off	on

INLEV OUTLEV

Balance

3	LEVELS	low	mid	high
	Bnd-Lev	4.0dB	4.0dB	4.0dB
	0dB ref	0.0dB	0.0dB	0.0dB
	Meters	10dB	10dB	10dB

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

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

EXPAND	low	mid	high
Threshold	-32.0dB	-38.0dB	-46dB
Ratio	off	off	off
Attack	1.0ms	1.0ms	1.0ms
Release	300ms	300ms	300ms
Range	-20.0dB	-20.0dB	-20.0dB
	Ratio Attack Release	Ratio off Attack 1.0ms Release 300ms	Ratio         off         off           Attack         1.0ms         1.0ms           Release         300ms         300ms

7	Par-Lnk	Nom-Dly	
	on	0.0ms	

Pro	eset: 212	Use this preset for:		
	RecComp1			
ī	MIX 100%	INLEV 0.0dB	OUTLEV 0.0dB	<b>Balance</b> center
L				
2	LowCut 8.0Hz	Lo-Xovr 200Hz	Hi-Xovr 2.00KHz	SoftClip on
3	LEVELS	low	mid	high
	Bnd-Lev	-3.0dB	-3.5dB	-5.5dB
	0dB ref	0.0dB	0.0dB	0.0dB
L	Meters	10dB	10dB	10dB
4	COMPRES	low	mid	high
Γ	Threshold	-14.0dB	-14.0dB	-18.0dB
	Ratio	1.80>1	1.80>1	2.0>1
	Gain	6.2dB	6.2dB	9.0dB
	Attack	2.0ms	1.4ms	1.0ms
	Release	1.0s	700ms	300ms
	FeedFwd	2.0ms	1.4ms	0.5ms
	Crest	10dB	10dB	10dB
5	LIMITER	low	mid	high
ľ	Threshold	-1.5dB	-2.5dB	-4.0dB
	Ratio	infin>1	infin>1	infin>1
	Attack	100µs	100µs	50µs
	Release	300ms	140ms	70ms
	FeedFwd	0.2ms	0.2ms	0.2ms
6	EXPAND	low	mid	high
ĺ	Threshold	-64dB	-64dB	-70dB
Ĭ	Ratio	1>2.0	1>2.0	1>2.0
	Attack	1.0ms	0.7ms	0.5ms
Ĭ	Release	700ms	700ms	700ms
	Range	-10dB	-10dB	-10dB
7	Por-Unk	Nom-Dly		
ľ	IUIUIN	יוט וווטאו		

0.3ms



DIGITAL AUDIO MAINFRAME

Preset:	Use this preset for:		

1	MIX	INLEV	OUTLEV	Balance
2	LowCut	Lo-Yovr	l Hi-Xovr	SoftClin

Ξ				
3	LEVELS	low	mid	high
	Bnd-Lev			
	0dB ref			

Meters

4	COMPRES	low	mid	high
	Threshold			
	Ratio			
	Gain			
	Attack			
	Release			
	FeedFwd			
	Crest			

5	LIMITER	low	mid	high
	Threshold			
	Ratio			
	Attack			
	Release			
	FeedFwd			

6	EXPAND	low	mid	high
	Threshold			
	Ratio			
	Attack			
	Release			
	Range			

7	Par-Lnk	Nom-Dly	

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# **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 CON	FIGURATION:			
FRAME SERIAL NO:				
	NO: 1	NO: 2	NO: 3	NO: 4
ADA-1 SERIAL NO:				
DSP-2 SERIAL NO:				
DSP-1 SERIAL NO:				
5DISKSERIAL NO:		DIS K T YPE : 720 Kb/1.4	4 Mb	DD/HD
MEMORY CARD TYPE	:	SIZE:		
SOFTWARE CONF	FIGURATION			
BIOS VERSION: *				
APPL.SOFTWARE: **				
M5000 CONNECTI	ONS			
Analog IN:	YES	NO	Balanced	Unbalanced
Digital IN:	YES	NO	AES/EBU	SPDIF RCA/OPT.
Analog OUT :	YES	NO	B alanced	U nbalanced
Digtal OUT:	YES	NO	AES/EBU	SPDIF RCA/OPT.
WHAT KIND OF EQUIP	MENT IS CONNECTED	)TOTHE M5000 ?		
DESCRIBETHE PROB	LEM AND IN WHICH ST	TUATION 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.

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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**.

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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.

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#### **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

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.

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ERROR	DESCRIPTION	ACTION
EO1	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.
EO2	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.

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## **APPENDIX D**

#### TECHNICAL SPECIFICATIONS

M5000

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

**Max. Input Level** @ - 8 dB gain, + 22,0 dBu

@ 0 dB gain, + 14,8 dBu

@ 12 dB gain, + 2,8 dBu

**Input Impedance** 20 KOhm, electronically balanced, pin 2+, 3-

Input Gain  $\pm 12 \text{ dB}$ 

Input CMRR DC - 1 KHz, > 60 dB

1 KHz - 20 KHz > 40 dB

Max. Output Level + 22 dBu

Output Signal Balance >40 dB @ 1 KHz (BBC method)

Output Impedance 100 Ohm, electronically balanced, floating

type, pin 2+, 3-

Output Gain -18 dB to + 12 dB

Frequency Response 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

**Total Harmonic Dist.** < 0.03 %, 1 KHz, 0 dBu

**Inter modulation Dist.** < 0.03 %

**Dynamic Range** > 98 dB

Crosstalk < -80 dB @ 1 KHz

**Group Delay Linearity** < 5 μS

Phase Linearity Better than 5°

**Digital Conversion** Input: Delta Sigma 64x oversampling, 18 bit res.

Output: Linear 8x oversampling, 20 bit res.

Sampling Rate 48.0 KHz, 44.1 KHz, 32.0 KHz

**Environment** Operating 0° to 50°, storage -20° to 60°

Power Requirements 100 - 240 Vac, 50-60 Hz

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**Power Consumption** 20 - 60 watts, depending on configuration

**Finish** Black anodized aluminum face plate.

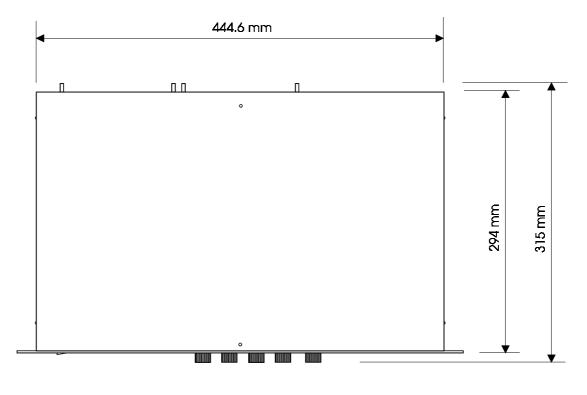
Black painted steel top and buttom plate.

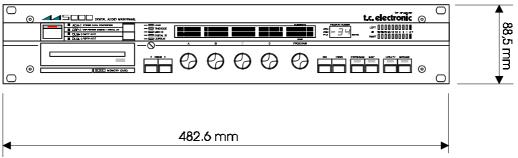
Chromatic steel chassis.

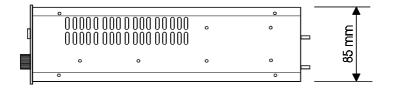
Net Weight 8.6 kg (19 lbs)
Shipping Weight 10 kg (22 lbs)

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

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#### **CONTROLS & DISPLAYS**

**Parameter Display** 

**Power Switch** Rocker type

Device SelectorSelects the DSP to be controlledEdit PageSelects next or previous Edit PageDials A, B, C, DFour dials for parameter editing

**Program Dial**Control Program- recall, view and store

**Do, Undo**Executes and cancels changes made**Program**Selects Program Algorithm Mode

Edit Selects Edit Parameter Mode

Utility Selects utility display

Bypass of active devices

**Load LED** Lit when parameters are updating

Timecode LED Lit when receiving timecode

MIDI In LED Lit when receiving MIDI

Digital In LEDLit when receiving at digital inputsLAN/SCSI LEDLit when reading or writing data

Algorithm/Program Displays algorithm type and program name

80 character alphanumeric display

**Program Number** 3 digit program number display

**Input Level Meter** Dual 10 segment LED

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MIDI In, Out and Thru

**Remote** 7-way custom RS-232 or RS485 In and Out,

power

**Pedal** Programmable switch type, not implemented

**SMPTE** Input for cuelist management. The SMPTE jack

plug must be an **unbalanced** connection with the **TIP = HOT** and the **RING = GROUND**. The SMPTE input accepts signals from -10 dBu and

up

**OPTION** 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

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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

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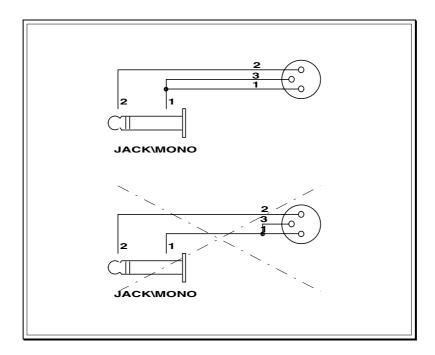
#### **ADA-1 CONNECTIONS**

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.

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#### **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.

AES/EBU PROFESSIONAL DIGITAL AUDIO				
Manufacturer	Туре			
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)			
SPDIF CONSUMER DIGITAL AUDIO				
Manufacturer	Туре			
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.

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#### **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 IBMtm, Ataritm or MACtm 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>	Number to call	Baud rate	Data bits	Parity	Stop bits
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>&</sup>lt;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	1.12 SAMPLING option		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

<sup>\*</sup> Updating to BIOS 2.00 will improve ATAC performance

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!

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<sup>\*\*</sup> Only if MD2 is installed