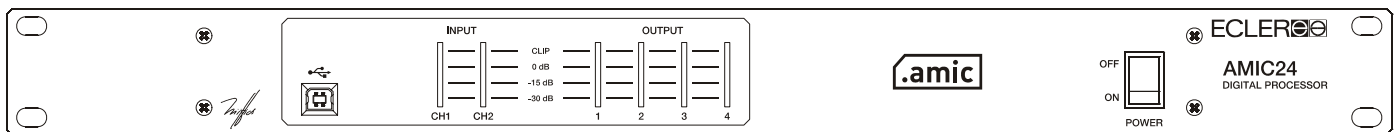


AMIC24

SERVICE MANUAL



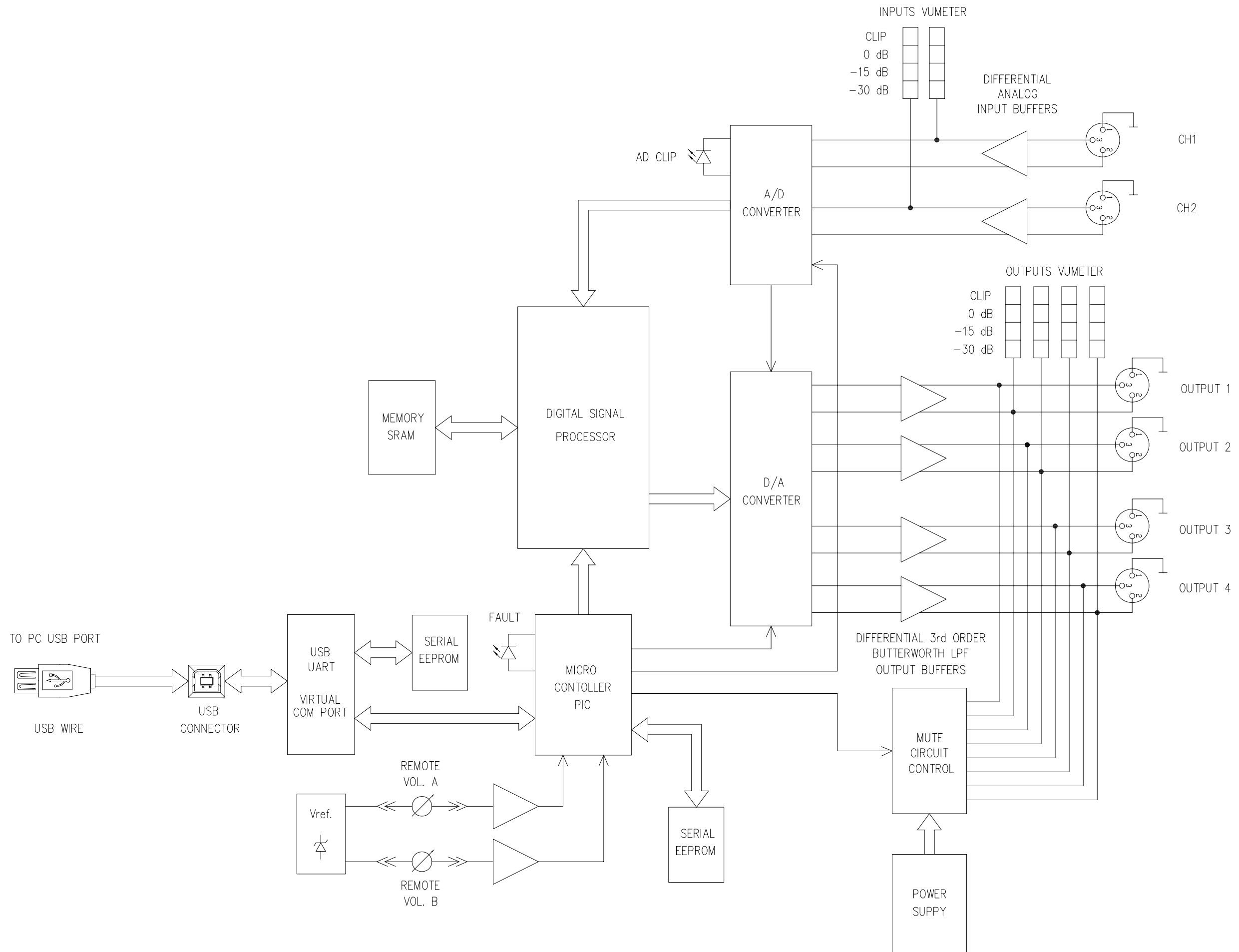
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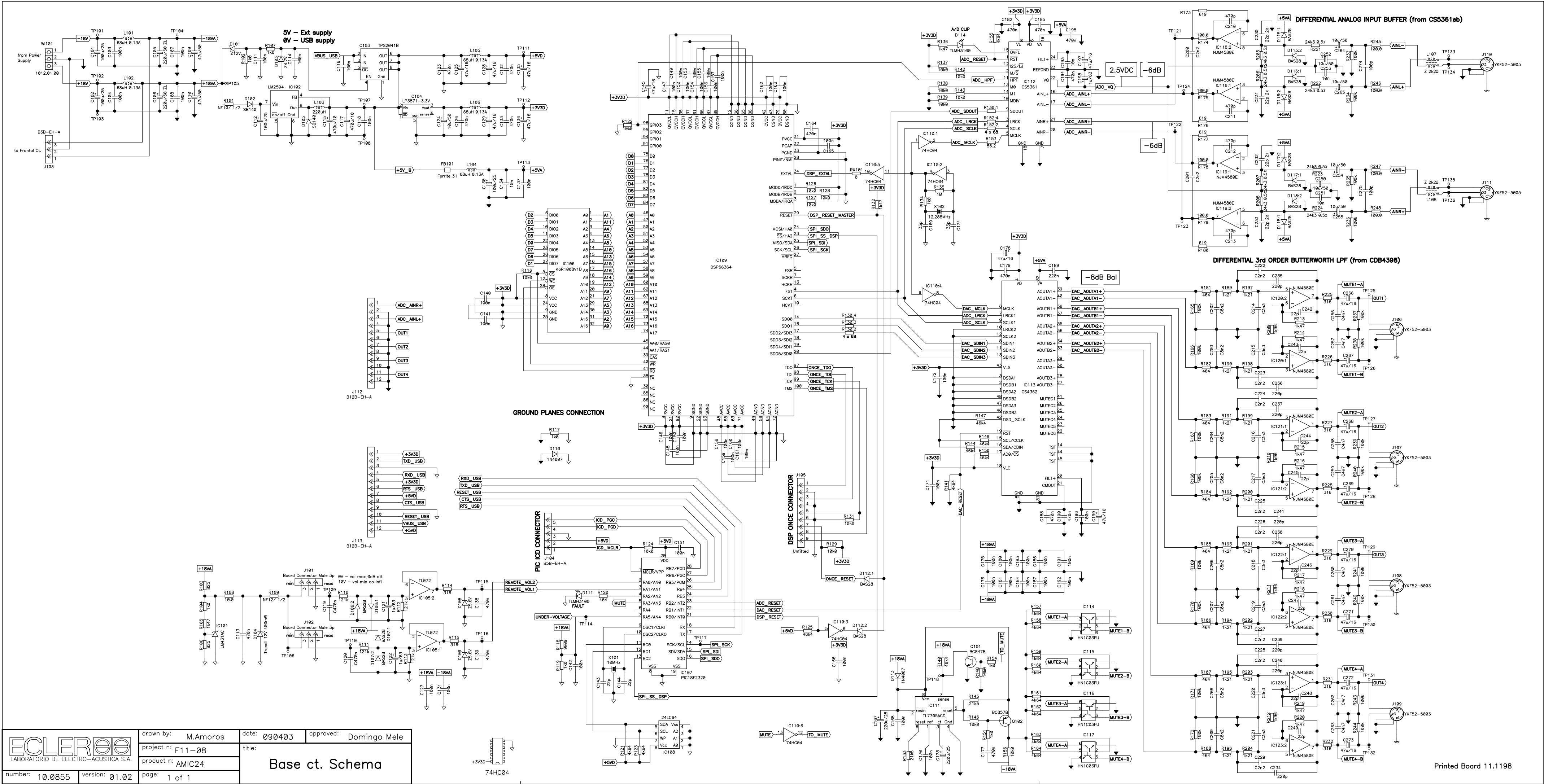
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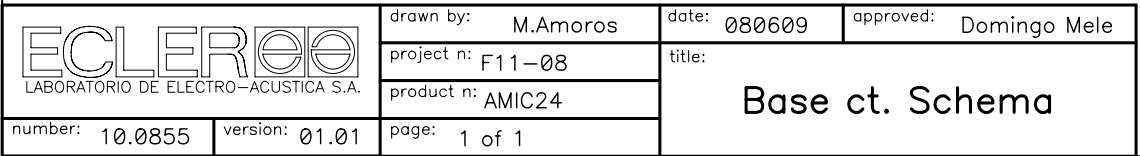
SERVICE MANUAL AMIC24

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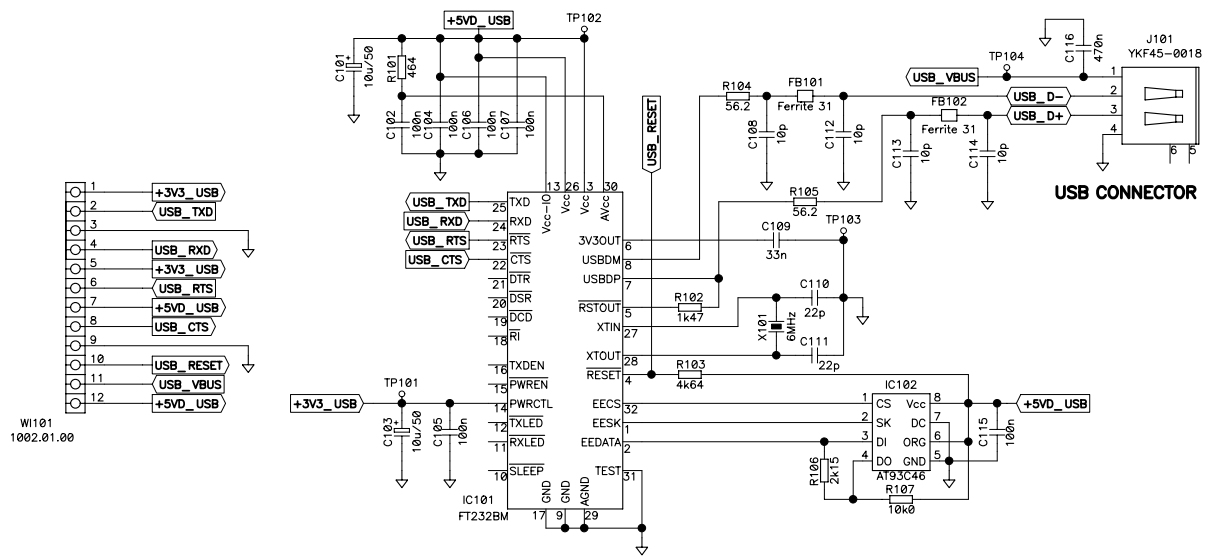
- BLOCK DIAGRAM
- SCHEMATICS
- COMPONENTS LOCATION SCHEMA
- TESTING AND QUALITY CONTROL
- TECHNICAL CHARACTERISTICS
- WIRING DIAGRAM
- MECHANICAL DIAGRAM
- PACKING DIAGRAM





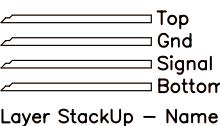





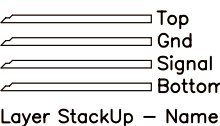



Printed Board 11.1200

ECLEREO LABORATORIO DE ELECTRO-ACUSTICA S.A.	drawn by: M.Amoros	date: 080417	approved: Domingo Mele
	project n: F11-08	USB Ct. Schema	
	product n: AMIC24		
	page: 1 of 1		
number: 10.0857	version: 01.00		



 LABORATORIO DE ELECTRO-ACUSTICA S.A.		related to:		circuit no: 11.1198-03.00		side: Component	
				schema no: 10.0855-01.02			
				insertion file no: 81.0142-01.00		view: Reference	
number: 33.1101		version: 01.02		project n: F11-08		title: <div style="text-align: center; font-size: 2em;">Base Ct.</div>	
drawn by: M. Amoros		date: 090403		product n: AMIC24			
				approved: Dominiao Mele			



 LABORATORIO DE ELECTRO-ACUSTICA S.A.		related to:		circuit no: 11.1198-03.00		side: Component	
				schema no: 10.0855-01.02		view: Value	
		insertion file no: 81.0142-01.00					
		project n: F11-08		title:			
number: 33.1102		version: 01.02		product n: AMIC24		Base Ct.	
drawn by: M. Amoros		date: 090403		approved: Dominiao Mele			

PARTS LIST: PRINTED CIRCUIT 11.1198.03.00

Code	Description	Reference
FCCE15100000	100u/25	C101
FCCE15100000	100u/25	C102
FCXCC2100000	100n	C103
FCXCC2100000	100n	C104
FCCE25220100	220u/50 ZL	C105
FCCE25220100	220u/50 ZL	C106
FCXCC2100000	100n	C107
FCXCC2100000	100n	C108
FCCE25047000	47u/50	C109
FCCE25047000	47u/50	C110
FCXCC2100000	100n	C111
FCCE15100000	100u/25	C112
FCXCD4470000	470n	C113
FCXCC2100000	100n	C114
FCCE03000000	470u/10	C115
FCXCC2100000	100n	C116
FCCE03000000	470u/10	C117
FCXCC2100000	100n	C118
FCCDK1470000	C470n	C119
FCCDK1470000	C470n	C120
FCCE30001000	1u/63	C121
FCCE30001000	1u/63	C122
FCXCD4470000	470n	C123
FCCE25010000	10u/50	C124
FCCE10000000	47u/16	C125
FCXCD4470000	470n	C126
FCXCC2100000	100n	C127
FCCE10000000	47u/16	C128
FCCE10000000	47u/16	C129
FCCE15100000	100u/25	C130
FCXCC2100000	100n	C131
FCXCD4470000	470n	C132
FCXCD4470000	470n	C133
FCXCD4010000	10n	C134
FCCE10000000	47u/16	C135
FCCE10000000	47u/16	C136
FCXCC2100000	100n	C137
FCXCD4470000	470n	C138
FCXCD4470000	470n	C139
FCXCC2100000	100n	C140
FCXCC2100000	100n	C141
FCXCC2100000	100n	C142
FCXCD1220000	22p	C143
FCXCD1220000	22p	C144
FCCE10000000	47u/16	C145
FCXCC2100000	100n	C146
FCXCC2100000	100n	C147
FCXCC2100000	100n	C148
FCXCC2100000	100n	C149
FCXCC2100000	100n	C150
FCXCC2100000	100n	C151
FCXCC2100000	100n	C152
FCXCC2100000	100n	C153
FCXCC2100000	100n	C154
FCXCC2100000	100n	C155
FCXCC2100000	100n	C156

PARTS LIST: PRINTED CIRCUIT 11.1198.03.00

Code	Description	Reference
FCXCC2100000	100n	C157
FCXCC2100000	100n	C158
FCXCC2100000	100n	C159
FCXCC2100000	100n	C160
FCXCC2100000	100n	C161
FCXCC2100000	100n	C162
FCXCC2100000	100n	C163
FCXCD4470000	470n	C164
FCXCC2100000	100n	C165
FCXCC2100000	100n	C166
FCCE15220000	220u/25	C167
FCXCD4100000	100n	C168
FCXCD1330000	33p	C169
FCXCD4100000	100n	C170
FCXCC2100000	100n	C171
FCXCC2100000	100n	C172
FCCE15220000	220u/25	C173
FCXCD1330000	33p	C174
FCXCC2100000	100n	C175
FCXCC2100000	100n	C176
FCXCD4470000	470n	C177
FCCE10000000	47u/16	C178
FCXCD4470000	470n	C179
FCXCC2100000	100n	C180
FCXCC2100000	100n	C181
FCXCD4470000	470n	C182
FCXCC2100000	100n	C183
FCXCC2100000	100n	C184
FCXCD4470000	470n	C185
FCXCC2100000	100n	C186
FCXCC2100000	100n	C187
FCXCD4470000	470n	C188
FCXCD4220000	220n	C189
FCXCD4470000	470n	C190
FCXCC2100000	100n	C191
FCXCC2100000	100n	C192
FCXCD4010000	10n	C193
FCXCD4470000	470n	C194
FCXCD4470000	470n	C195
FCXCC2100000	100n	C196
FCCE10000000	47u/16	C197
FCCE30001000	1u/63	C198
FCCE10000000	47u/16	C199
FCCDK1002200	C2n2	C200
FCCDK1002200	C2n2	C201
FCCDK1008200	C8n2	C202
FCCDK1008200	C8n2	C203
FCCDK1008200	C8n2	C204
FCCDK1008200	C8n2	C205
FCCDK1008200	C8n2	C206
FCCDK1008200	C8n2	C207
FCCDK1008200	C8n2	C208
FCCDK1008200	C8n2	C209
FCXCD2470000	470p	C210
FCXCD2470000	470p	C211
FCXCD2470000	470p	C212

PARTS LIST: PRINTED CIRCUIT 11.1198.03.00

Code	Description	Reference
FCXCD2470000	470p	C213
FCCDK1003300	C3n3	C214
FCCDK1003300	C3n3	C215
FCCDK1003300	C3n3	C216
FCCDK1003300	C3n3	C217
FCCDK1003300	C3n3	C218
FCCDK1003300	C3n3	C219
FCCDK1003300	C3n3	C220
FCCDK1003300	C3n3	C221
FCCDK1002200	C2n2	C222
FCCDK1002200	C2n2	C223
FCCDK1002200	C2n2	C224
FCCDK1002200	C2n2	C225
FCCDK1002200	C2n2	C226
FCCDK1002200	C2n2	C227
FCCDK1002200	C2n2	C228
FCCDK1002200	C2n2	C229
FCXCD1220100	22p 2%	C230
FCXCD1220100	22p 2%	C231
FCXCD1220100	22p 2%	C232
FCXCD1220100	22p 2%	C233
FCXCD2220000	220p	C234
FCXCD2220000	220p	C235
FCXCD2220000	220p	C236
FCXCD2220000	220p	C237
FCXCD2220000	220p	C238
FCXCD2220000	220p	C239
FCXCD2220000	220p	C240
FCXCD2220000	220p	C241
FCXCD1220000	22p	C242
FCXCD1220000	22p	C243
FCXCD1220000	22p	C244
FCXCD1220000	22p	C245
FCXCD1220000	22p	C246
FCXCD1220000	22p	C247
FCXCD1220000	22p	C248
FCXCD1220000	22p	C249
FCCE25010000	10u/50	C250
FCXCD4010000	10n	C251
FCCE25010000	10u/50	C252
FCXCD4010000	10n	C253
FCCE25010000	10u/50	C254
FCCE25010000	10u/50	C255
FCCDK1004700	C4n7	C256
FCCDK1004700	C4n7	C257
FCCDK1004700	C4n7	C258
FCCDK1004700	C4n7	C259
FCCDK1004700	C4n7	C260
FCCDK1004700	C4n7	C261
FCCDK1004700	C4n7	C262
FCCDK1004700	C4n7	C263
FCCE25010000	10u/50	C264
FCCE25010000	10u/50	C265
FCCE10000000	47u/16	C266
FCCE10000000	47u/16	C267
FCCE10000000	47u/16	C268

PARTS LIST: PRINTED CIRCUIT 11.1198.03.00

Code	Description	Reference
FCCE10000000	47u/16	C269
FCCE10000000	47u/16	C270
FCCE10000000	47u/16	C271
FCCE10000000	47u/16	C272
FCCE10000000	47u/16	C273
FCXCD2100000	100p	C274
FCXCD2100000	100p	C275
FCXI01198000	Printed Board 11.1198	CI102
FCXZ00012000	Z12V	D101
FCXDDSB14000	SB140	D102
FCXZ00004700	Z4.7V	D103
FCDDKE120000	Transil 12V 400mW	D104
FCXDDSB14000	SB140	D105
FCXDDBAS2800	BAS28	D106
FCXDDBAS2800	BAS28	D107
FCXZ00005600	Z5.6V	D108
FCXZ00005600	Z5.6V	D109
FCXDD4007000	1N4007	D110
FCLEDSMD2000	TLMH3100	D111
FCXDDBAS2800	BAS28	D112
FCXDD4007000	1N4007	D113
FCLEDSMD2000	TLMH3100	D114
FCXDDBAS2800	BAS28	D115
FCXDDBAS2800	BAS28	D116
FCXDDBAS2800	BAS28	D117
FCXDDBAS2800	BAS28	D118
FCXFER010000	Ferrite 31	FB101
FCIC43101000	LM431AC	IC101
FCIC25941000	LM2594	IC102
FCIC2041B000	TPS2041B	IC103
FCREG3871000	LP3871-3.3V	IC104
FCIC07201000	TL072	IC105
FCICK6R1008V	K6R1008V1D	IC106
FCIC18F23200	PIC18F2320	IC107
FCIC02464000	24LC64	IC108
FCIC56364100	DSP56364	IC109
FCIC74040100	74HC04	IC110
FCIC77050000	TL7705ACD	IC111
FCIC53610100	CS5361	IC112
FCIC43620100	CS4362	IC113
FCTRH1C0300	HN1C03FU	IC114
FCTRH1C0300	HN1C03FU	IC115
FCTRH1C0300	HN1C03FU	IC116
FCTRH1C0300	HN1C03FU	IC117
FCIC4580E000	NJM4580E	IC118
FCIC4580E000	NJM4580E	IC119
FCIC4580E000	NJM4580E	IC120
FCIC4580E000	NJM4580E	IC121
FCIC4580E000	NJM4580E	IC122
FCIC4580E000	NJM4580E	IC123
FCREG1017000	Board Connector Male 3p	J101
FCREG1017000	Board Connector Male 3p	J102
FCCTM0003000	B3B-EH-A	J103
FCCTM0005000	B5B-EH-A	J104
FCBASX100000	YKF52-5003	J106
FCBASX100000	YKF52-5003	J107

PARTS LIST: PRINTED CIRCUIT 11.1198.03.00

Code	Description	Reference
FCBASX100000	YKF52-5003	J108
FCBASX100000	YKF52-5003	J109
FCBASX090000	YKF52-5005	J110
FCBASX090000	YKF52-5005	J111
FCCTM0012000	B12B-EH-A	J112
FCCTM0012000	B12B-EH-A	J113
FCCHKX068000	68uH 0.13A	L101
FCCHKX068000	68uH 0.13A	L102
FCIND0040000	220uH	L103
FCCHKX068000	68uH 0.13A	L104
FCCHKX068000	68uH 0.13A	L105
FCCHKX068000	68uH 0.13A	L106
FCCHKX220000	Z 2k2ê	L107
FCCHKX220000	Z 2k2ê	L108
FCXTT0847000	BC847B	Q101
FCXTT0857000	BC857B	Q102
FCRF22100000	NF10/ 1/2	R101
FCXR53100000	1k0	R102
FCXR52825000	825	R103
FCXR53100000	1k0	R104
FCXR53147000	1k47	R105
FCXR52825000	825	R106
FCXR53100000	1k0	R107
FCXR51100000	10.0	R108
FCRF22120000	NF12/ 1/2	R109
FCXR55121000	121k	R110
FCXR55121000	121k	R111
FCXR55121000	121k	R112
FCXR55121000	121k	R113
FCXR52316000	316	R114
FCXR52316000	316	R115
FCXR54100000	10k0	R116
FCXR53100000	1k0	R117
FCXR53909000	9k09	R118
FCXR53100000	1k0	R119
FCXR52464000	464	R120
FCXR53464000	4k64	R121
FCXR54100000	10k0	R122
FCXR53464000	4k64	R123
FCXR54100000	10k0	R124
FCXR54464000	46k4	R125
FCXR54100000	10k0	R126
FCXR54100000	10k0	R127
FCXR54100000	10k0	R128
FCXR54100000	10k0	R129
FCRX62680000	4 x 68	R130
FCXR54100000	10k0	R131
FCXR53147000	1k47	R132
FCXR54215000	21k5	R133
FCXR53100000	1k0	R134
FCXR56100000	1M	R135
FCXR53147000	1k47	R136
FCXR54100000	10k0	R137
FCXR54100000	10k0	R138
FCXR54100000	10k0	R139
FCXR54464000	46k4	R140

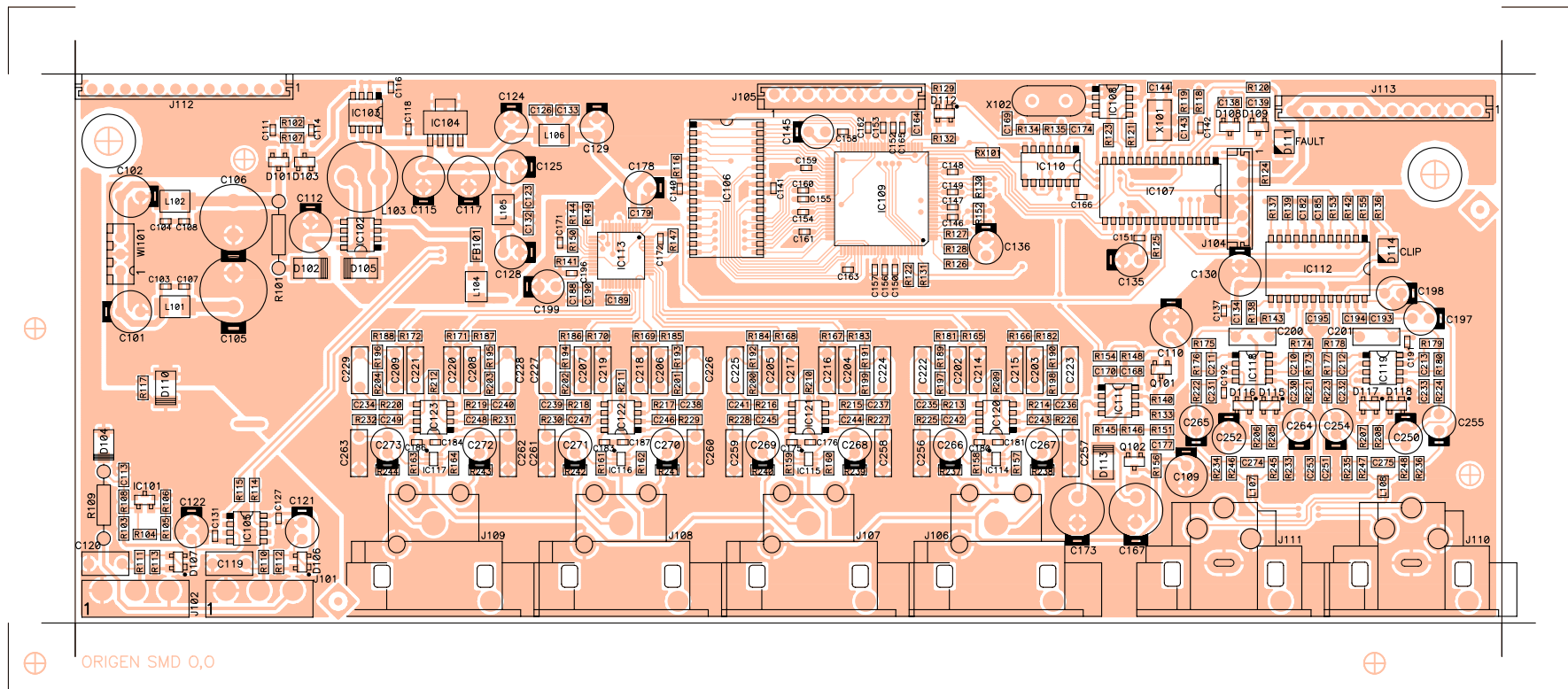
PARTS LIST: PRINTED CIRCUIT 11.1198.03.00

Code	Description	Reference
FCXR53464000	4k64	R141
FCXR54100000	10k0	R142
FCXR54100000	10k0	R143
FCXR54464000	46k4	R144
FCXR54215000	21k5	R145
FCXR54100000	10k0	R146
FCXR54464000	46k4	R147
FCXR54100000	10k0	R148
FCXR54464000	46k4	R149
FCXR54464000	46k4	R150
FCXR53100000	1k0	R151
FCRX62680000	4 x 68	R152
FCXR51562000	56.2	R153
FCXR53100000	1k0	R154
FCXR53464000	4k64	R155
FCXR54100000	10k0	R156
FCXR53464000	4k64	R157
FCXR53464000	4k64	R158
FCXR53464000	4k64	R159
FCXR53464000	4k64	R160
FCXR53464000	4k64	R161
FCXR53464000	4k64	R162
FCXR53464000	4k64	R163
FCXR53464000	4k64	R164
FCXR55100000	100k	R165
FCXR55100000	100k	R166
FCXR55100000	100k	R167
FCXR55100000	100k	R168
FCXR55100000	100k	R169
FCXR55100000	100k	R170
FCXR55100000	100k	R171
FCXR55100000	100k	R172
FCXR52619000	619	R173
FCXR52100000	100.0	R174
FCXR52100000	100.0	R175
FCXR52619000	619	R176
FCXR52619000	619	R177
FCXR52100000	100.0	R178
FCXR52100000	100.0	R179
FCXR52619000	619	R180
FCXR52464000	464	R181
FCXR52464000	464	R182
FCXR52464000	464	R183
FCXR52464000	464	R184
FCXR52464000	464	R185
FCXR52464000	464	R186
FCXR52464000	464	R187
FCXR52464000	464	R188
FCXR53121000	1k21	R189
FCXR53121000	1k21	R190
FCXR53121000	1k21	R191
FCXR53121000	1k21	R192
FCXR53121000	1k21	R193
FCXR53121000	1k21	R194
FCXR53121000	1k21	R195
FCXR53121000	1k21	R196


PARTS LIST: PRINTED CIRCUIT 11.1198.03.00

Code	Description	Reference
FCXR53121000	1k21	R197
FCXR53121000	1k21	R198
FCXR53121000	1k21	R199
FCXR53121000	1k21	R200
FCXR53121000	1k21	R201
FCXR53121000	1k21	R202
FCXR53121000	1k21	R203
FCXR53121000	1k21	R204
FCXR64243000	24k3 0.5%	R205
FCXR64243000	24k3 0.5%	R206
FCXR64243000	24k3 0.5%	R207
FCXR64243000	24k3 0.5%	R208
FCXR53196000	1k96	R209
FCXR53196000	1k96	R210
FCXR53196000	1k96	R211
FCXR53196000	1k96	R212
FCXR53147000	1k47	R213
FCXR53147000	1k47	R214
FCXR53147000	1k47	R215
FCXR53147000	1k47	R216
FCXR53147000	1k47	R217
FCXR53147000	1k47	R218
FCXR53147000	1k47	R219
FCXR53147000	1k47	R220
FCXR64243000	24k3 0.5%	R221
FCXR64243000	24k3 0.5%	R222
FCXR64243000	24k3 0.5%	R223
FCXR64243000	24k3 0.5%	R224
FCXR52316000	316	R225
FCXR52316000	316	R226
FCXR52316000	316	R227
FCXR52316000	316	R228
FCXR52316000	316	R229
FCXR52316000	316	R230
FCXR52316000	316	R231
FCXR52316000	316	R232
FCXR55100000	100k	R233
FCXR55100000	100k	R234
FCXR55100000	100k	R235
FCXR55100000	100k	R236
FCXR55100000	100k	R237
FCXR55100000	100k	R238
FCXR55100000	100k	R239
FCXR55100000	100k	R240
FCXR55100000	100k	R241
FCXR55100000	100k	R242
FCXR55100000	100k	R243
FCXR55100000	100k	R244
FCXR52100000	100.0	R245
FCXR52100000	100.0	R246
FCXR52100000	100.0	R247
FCXR52100000	100.0	R248
FCXR50000000	0	RX101
FC0C01210000	1012.01.00	WI101
FCCRISX10000	10MHz	X101
FCCRIS012288	12,288MHz	X102

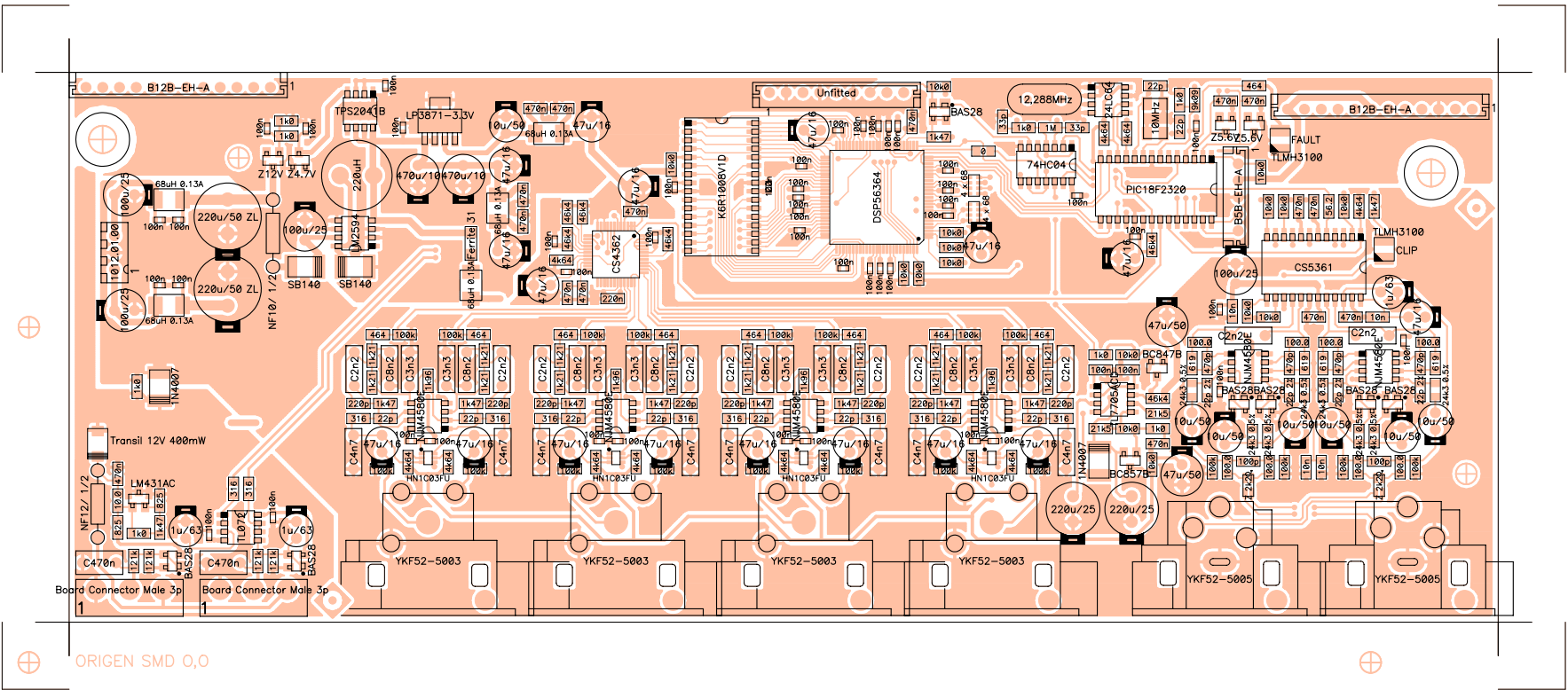
Top
Gnd
Signal
Bottom
Layer StackUp - Name




OLD VERSION

 LABORATORIO DE ELECTRO-ACUSTICA S.A.		related to: circuit no: 11.1198-02.00 schema no: 10.0855-01.01 insertion file no: 81.0142-01.00		side: Component
		project n: F11-08		view: Reference
number: 33.1101	version: 01.01	product n: AMIC24	Base Ct.	
drawn by: M. Amoros	date: 080609	approved: Domingo Mele		

Top
Gnd
Signal
Bottom
Layer StackUp – Name



OLD VERSION

 LABORATORIO DE ELECTRO-ACUSTICA S.A.		related to: circuit no: 11.1198-02.00 schema no: 10.0855-01.01 insertion file no: 81.0142-01.00		side: Component	
				view: Value	
project n: F11-08		title: Base Ct.			
number: 33.1102	version: 01.01				product n: AMIC24
drawn by: M. Amoros	date: 080609				approved: Domingo Mele

PARTS LIST: PRINTED CIRCUIT 11.1198.02.00

Code	Description	Reference
FCCE15100000	100u/25	C101
FCCE15100000	100u/25	C102
FCXCC2100000	100n	C103
FCXCC2100000	100n	C104
FCCE25220100	220u/50 ZL	C105
FCCE25220100	220u/50 ZL	C106
FCXCC2100000	100n	C107
FCXCC2100000	100n	C108
FCCE25047000	47u/50	C109
FCCE25047000	47u/50	C110
FCXCC2100000	100n	C111
FCCE15100000	100u/25	C112
FCXCD4470000	470n	C113
FCXCC2100000	100n	C114
FCCE03000000	470u/10	C115
FCXCC2100000	100n	C116
FCCE03000000	470u/10	C117
FCXCC2100000	100n	C118
FCCDK1470000	C470n	C119
FCCDK1470000	C470n	C120
FCCE30001000	1u/63	C121
FCCE30001000	1u/63	C122
FCXCD4470000	470n	C123
FCCE25010000	10u/50	C124
FCCE10000000	47u/16	C125
FCXCD4470000	470n	C126
FCXCC2100000	100n	C127
FCCE10000000	47u/16	C128
FCCE10000000	47u/16	C129
FCCE15100000	100u/25	C130
FCXCC2100000	100n	C131
FCXCD4470000	470n	C132
FCXCD4470000	470n	C133
FCXCD4010000	10n	C134
FCCE10000000	47u/16	C135
FCCE10000000	47u/16	C136
FCXCC2100000	100n	C137
FCXCD4470000	470n	C138
FCXCD4470000	470n	C139
FCXCC2100000	100n	C140
FCXCC2100000	100n	C141
FCXCC2100000	100n	C142
FCXCD1220000	22p	C143
FCXCD1220000	22p	C144
FCCE10000000	47u/16	C145
FCXCC2100000	100n	C146
FCXCC2100000	100n	C147
FCXCC2100000	100n	C148
FCXCC2100000	100n	C149
FCXCC2100000	100n	C150
FCXCC2100000	100n	C151
FCXCC2100000	100n	C152
FCXCC2100000	100n	C153
FCXCC2100000	100n	C154
FCXCC2100000	100n	C155
FCXCC2100000	100n	C156

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.1198.02.00

Code	Description	Reference
FCXCC2100000	100n	C157
FCXCC2100000	100n	C158
FCXCC2100000	100n	C159
FCXCC2100000	100n	C160
FCXCC2100000	100n	C161
FCXCC2100000	100n	C162
FCXCC2100000	100n	C163
FCXCD4470000	470n	C164
FCXCC2100000	100n	C165
FCXCC2100000	100n	C166
FCCE15220000	220u/25	C167
FCXCD4100000	100n	C168
FCXCD1330000	33p	C169
FCXCD4100000	100n	C170
FCXCC2100000	100n	C171
FCXCC2100000	100n	C172
FCCE15220000	220u/25	C173
FCXCD1330000	33p	C174
FCXCC2100000	100n	C175
FCXCC2100000	100n	C176
FCXCD4470000	470n	C177
FCCE10000000	47u/16	C178
FCXCD4470000	470n	C179
FCXCC2100000	100n	C180
FCXCC2100000	100n	C181
FCXCD4470000	470n	C182
FCXCC2100000	100n	C183
FCXCC2100000	100n	C184
FCXCD4470000	470n	C185
FCXCC2100000	100n	C186
FCXCC2100000	100n	C187
FCXCD4470000	470n	C188
FCXCD4220000	220n	C189
FCXCD4470000	470n	C190
FCXCC2100000	100n	C191
FCXCC2100000	100n	C192
FCXCD4010000	10n	C193
FCXCD4470000	470n	C194
FCXCD4470000	470n	C195
FCXCC2100000	100n	C196
FCCE10000000	47u/16	C197
FCCE30001000	1u/63	C198
FCCE10000000	47u/16	C199
FCCDK1002200	C2n2	C200
FCCDK1002200	C2n2	C201
FCCDK1008200	C8n2	C202
FCCDK1008200	C8n2	C203
FCCDK1008200	C8n2	C204
FCCDK1008200	C8n2	C205
FCCDK1008200	C8n2	C206
FCCDK1008200	C8n2	C207
FCCDK1008200	C8n2	C208
FCCDK1008200	C8n2	C209
FCXCD2470000	470p	C210
FCXCD2470000	470p	C211
FCXCD2470000	470p	C212

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.1198.02.00

Code	Description	Reference
FCXCD2470000	470p	C213
FCCDK1003300	C3n3	C214
FCCDK1003300	C3n3	C215
FCCDK1003300	C3n3	C216
FCCDK1003300	C3n3	C217
FCCDK1003300	C3n3	C218
FCCDK1003300	C3n3	C219
FCCDK1003300	C3n3	C220
FCCDK1003300	C3n3	C221
FCCDK1002200	C2n2	C222
FCCDK1002200	C2n2	C223
FCCDK1002200	C2n2	C224
FCCDK1002200	C2n2	C225
FCCDK1002200	C2n2	C226
FCCDK1002200	C2n2	C227
FCCDK1002200	C2n2	C228
FCCDK1002200	C2n2	C229
FCXCD1220100	22p 2%	C230
FCXCD1220100	22p 2%	C231
FCXCD1220100	22p 2%	C232
FCXCD1220100	22p 2%	C233
FCXCD2220000	220p	C234
FCXCD2220000	220p	C235
FCXCD2220000	220p	C236
FCXCD2220000	220p	C237
FCXCD2220000	220p	C238
FCXCD2220000	220p	C239
FCXCD2220000	220p	C240
FCXCD2220000	220p	C241
FCXCD1220000	22p	C242
FCXCD1220000	22p	C243
FCXCD1220000	22p	C244
FCXCD1220000	22p	C245
FCXCD1220000	22p	C246
FCXCD1220000	22p	C247
FCXCD1220000	22p	C248
FCXCD1220000	22p	C249
FCCE25010000	10u/50	C250
FCXCD4010000	10n	C251
FCCE25010000	10u/50	C252
FCXCD4010000	10n	C253
FCCE25010000	10u/50	C254
FCCE25010000	10u/50	C255
FCCDK1004700	C4n7	C256
FCCDK1004700	C4n7	C257
FCCDK1004700	C4n7	C258
FCCDK1004700	C4n7	C259
FCCDK1004700	C4n7	C260
FCCDK1004700	C4n7	C261
FCCDK1004700	C4n7	C262
FCCDK1004700	C4n7	C263
FCCE25010000	10u/50	C264
FCCE25010000	10u/50	C265
FCCE10000000	47u/16	C266
FCCE10000000	47u/16	C267
FCCE10000000	47u/16	C268

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.1198.02.00

Code	Description	Reference
FCCE1000000	47u/16	C269
FCCE1000000	47u/16	C270
FCCE1000000	47u/16	C271
FCCE1000000	47u/16	C272
FCCE1000000	47u/16	C273
FCXCD2100000	100p	C274
FCXCD2100000	100p	C275
FCCI01198000	Printed Board 11.1198	CI102
FCXZ00012000	Z12V	D101
FCXDDSB14000	SB140	D102
FCXZ00004700	Z4.7V	D103
FCDDKE120000	Transil 12V 400mW	D104
FCXDDSB14000	SB140	D105
FCXDDBAS2800	BAS28	D106
FCXDDBAS2800	BAS28	D107
FCXZ00005600	Z5.6V	D108
FCXZ00005600	Z5.6V	D109
FCXDD4007000	1N4007	D110
FCLEDSMD2000	TLMH3100	D111
FCXDDBAS2800	BAS28	D112
FCXDD4007000	1N4007	D113
FCLEDSMD2000	TLMH3100	D114
FCXDDBAS2800	BAS28	D115
FCXDDBAS2800	BAS28	D116
FCXDDBAS2800	BAS28	D117
FCXDDBAS2800	BAS28	D118
FCXFER010000	Ferrite 31	FB101
FCIC43101000	LM431AC	IC101
FCIC25941000	LM2594	IC102
FCIC2041B000	TPS2041B	IC103
FCREG3871000	LP3871-3.3V	IC104
FCIC07201000	TL072	IC105
FCICK6R1008V	K6R1008V1D	IC106
FCIC18F23200	PIC18F2320	IC107
FCIC02464000	24LC64	IC108
FCIC56364100	DSP56364	IC109
FCIC74040100	74HC04	IC110
FCIC77050000	TL7705ACD	IC111
FCIC53610100	CS5361	IC112
FCIC43620100	CS4362	IC113
FCTRH1C0300	HN1C03FU	IC114
FCTRH1C0300	HN1C03FU	IC115
FCTRH1C0300	HN1C03FU	IC116
FCTRH1C0300	HN1C03FU	IC117
FCIC4580E000	NJM4580E	IC118
FCIC4580E000	NJM4580E	IC119
FCIC4580E000	NJM4580E	IC120
FCIC4580E000	NJM4580E	IC121
FCIC4580E000	NJM4580E	IC122
FCIC4580E000	NJM4580E	IC123
FCREG1017000	Board Connector Male 3p	J101
FCREG1017000	Board Connector Male 3p	J102
FCCTM0005000	B5B-EH-A	J104
FCBASX100000	YKF52-5003	J106
FCBASX100000	YKF52-5003	J107
FCBASX100000	YKF52-5003	J108

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.1198.02.00

Code	Description	Reference
FCBASX100000	YKF52-5003	J109
FCBASX090000	YKF52-5005	J110
FCBASX090000	YKF52-5005	J111
FCCTM0012000	B12B-EH-A	J112
FCCTM0012000	B12B-EH-A	J113
FCCHKX068000	68uH 0.13A	L101
FCCHKX068000	68uH 0.13A	L102
FCIND0040000	220uH	L103
FCCHKX068000	68uH 0.13A	L104
FCCHKX068000	68uH 0.13A	L105
FCCHKX068000	68uH 0.13A	L106
FCCHKX220000	Z 2k2ê	L107
FCCHKX220000	Z 2k2ê	L108
FCXTT0847000	BC847B	Q101
FCXTT0857000	BC857B	Q102
FCRF22100000	NF10/ 1/2	R101
FCXR53100000	1k0	R102
FCXR52825000	825	R103
FCXR53100000	1k0	R104
FCXR53147000	1k47	R105
FCXR52825000	825	R106
FCXR53100000	1k0	R107
FCXR51100000	10.0	R108
FCRF22120000	NF12/ 1/2	R109
FCXR55121000	121k	R110
FCXR55121000	121k	R111
FCXR55121000	121k	R112
FCXR55121000	121k	R113
FCXR52316000	316	R114
FCXR52316000	316	R115
FCXR54100000	10k0	R116
FCXR53100000	1k0	R117
FCXR53909000	9k09	R118
FCXR53100000	1k0	R119
FCXR52464000	464	R120
FCXR53464000	4k64	R121
FCXR54100000	10k0	R122
FCXR53464000	4k64	R123
FCXR54100000	10k0	R124
FCXR54464000	46k4	R125
FCXR54100000	10k0	R126
FCXR54100000	10k0	R127
FCXR54100000	10k0	R128
FCXR54100000	10k0	R129
FCRX62680000	4 x 68	R130
FCXR54100000	10k0	R131
FCXR53147000	1k47	R132
FCXR54215000	21k5	R133
FCXR53100000	1k0	R134
FCXR56100000	1M	R135
FCXR53147000	1k47	R136
FCXR54100000	10k0	R137
FCXR54100000	10k0	R138
FCXR54100000	10k0	R139
FCXR54464000	46k4	R140
FCXR53464000	4k64	R141

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.1198.02.00

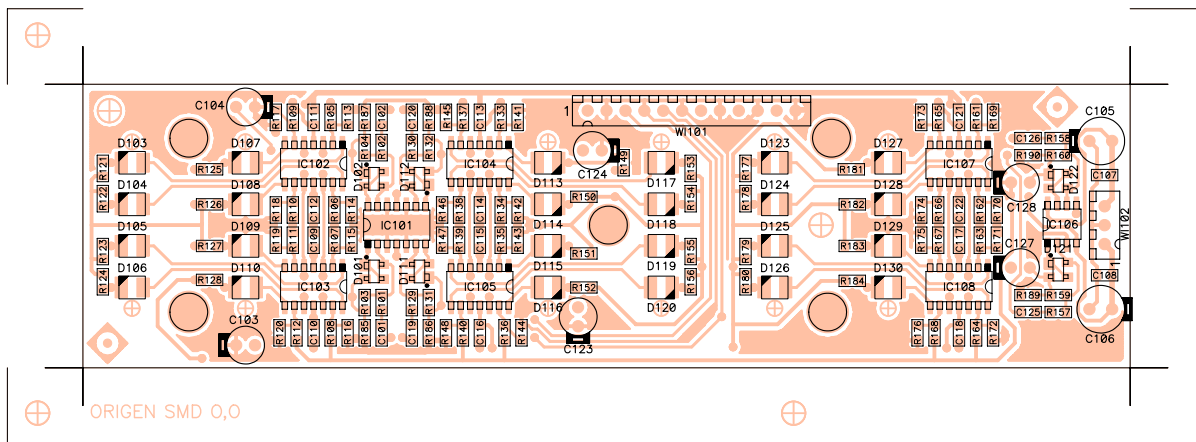
Code	Description	Reference
FCXR54100000	10k0	R142
FCXR54100000	10k0	R143
FCXR54464000	46k4	R144
FCXR54215000	21k5	R145
FCXR54100000	10k0	R146
FCXR54464000	46k4	R147
FCXR54100000	10k0	R148
FCXR54464000	46k4	R149
FCXR54464000	46k4	R150
FCXR53100000	1k0	R151
FCRX62680000	4 x 68	R152
FCXR51562000	56.2	R153
FCXR53100000	1k0	R154
FCXR53464000	4k64	R155
FCXR54100000	10k0	R156
FCXR53464000	4k64	R157
FCXR53464000	4k64	R158
FCXR53464000	4k64	R159
FCXR53464000	4k64	R160
FCXR53464000	4k64	R161
FCXR53464000	4k64	R162
FCXR53464000	4k64	R163
FCXR53464000	4k64	R164
FCXR55100000	100k	R165
FCXR55100000	100k	R166
FCXR55100000	100k	R167
FCXR55100000	100k	R168
FCXR55100000	100k	R169
FCXR55100000	100k	R170
FCXR55100000	100k	R171
FCXR55100000	100k	R172
FCXR52619000	619	R173
FCXR52100000	100.0	R174
FCXR52100000	100.0	R175
FCXR52619000	619	R176
FCXR52619000	619	R177
FCXR52100000	100.0	R178
FCXR52100000	100.0	R179
FCXR52619000	619	R180
FCXR52464000	464	R181
FCXR52464000	464	R182
FCXR52464000	464	R183
FCXR52464000	464	R184
FCXR52464000	464	R185
FCXR52464000	464	R186
FCXR52464000	464	R187
FCXR52464000	464	R188
FCXR53121000	1k21	R189
FCXR53121000	1k21	R190
FCXR53121000	1k21	R191
FCXR53121000	1k21	R192
FCXR53121000	1k21	R193
FCXR53121000	1k21	R194
FCXR53121000	1k21	R195
FCXR53121000	1k21	R196
FCXR53121000	1k21	R197

OLD VERSION

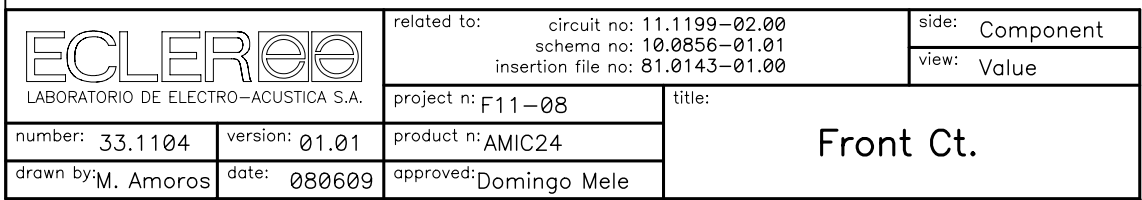
PARTS LIST: PRINTED CIRCUIT 11.1198.02.00

Code	Description	Reference
FCXR53121000	1k21	R198
FCXR53121000	1k21	R199
FCXR53121000	1k21	R200
FCXR53121000	1k21	R201
FCXR53121000	1k21	R202
FCXR53121000	1k21	R203
FCXR53121000	1k21	R204
FCXR64243000	24k3 0.5%	R205
FCXR64243000	24k3 0.5%	R206
FCXR64243000	24k3 0.5%	R207
FCXR64243000	24k3 0.5%	R208
FCXR53196000	1k96	R209
FCXR53196000	1k96	R210
FCXR53196000	1k96	R211
FCXR53196000	1k96	R212
FCXR53147000	1k47	R213
FCXR53147000	1k47	R214
FCXR53147000	1k47	R215
FCXR53147000	1k47	R216
FCXR53147000	1k47	R217
FCXR53147000	1k47	R218
FCXR53147000	1k47	R219
FCXR53147000	1k47	R220
FCXR64243000	24k3 0.5%	R221
FCXR64243000	24k3 0.5%	R222
FCXR64243000	24k3 0.5%	R223
FCXR64243000	24k3 0.5%	R224
FCXR52316000	316	R225
FCXR52316000	316	R226
FCXR52316000	316	R227
FCXR52316000	316	R228
FCXR52316000	316	R229
FCXR52316000	316	R230
FCXR52316000	316	R231
FCXR52316000	316	R232
FCXR55100000	100k	R233
FCXR55100000	100k	R234
FCXR55100000	100k	R235
FCXR55100000	100k	R236
FCXR55100000	100k	R237
FCXR55100000	100k	R238
FCXR55100000	100k	R239
FCXR55100000	100k	R240
FCXR55100000	100k	R241
FCXR55100000	100k	R242
FCXR55100000	100k	R243
FCXR55100000	100k	R244
FCXR52100000	100.0	R245
FCXR52100000	100.0	R246
FCXR52100000	100.0	R247
FCXR52100000	100.0	R248
FCXR50000000	0	RX101
FC0C01210000	1012.01.00	WI101
FCCRISX10000	10MHz	X101
FCCRIS012288	12,288MHz	X102

OLD VERSION



<div><div>ECLEREE</div><div>LABORATORIO DE ELECTRO-ACUSTICA S.A.</div></div>		related to: circuit no: 11.1199-02.00 schema no: 10.0856-01.01 insertion file no: 81.0143-01.00		side: Component
		project n: F11-08	title:	view: Reference
number: 33.1103	version: 01.01	product n: AMIC24	Front Ct.	
drawn by: M. Amoros	date: 080609	approved: Domingo Mele		



PARTS LIST: PRINTED CIRCUIT 11.1199.02.00

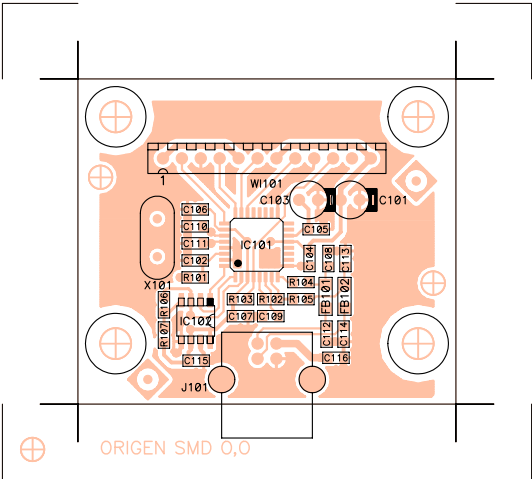
Code	Description	Reference
FCXCD4470000	470n	C101
FCXCD4470000	470n	C102
FCCE30001000	1u/63	C103
FCCE30001000	1u/63	C104
FCCE25047000	47u/50	C105
FCCE25047000	47u/50	C106
FCXCD4100000	100n	C107
FCXCD4100000	100n	C108
FCXCD4100000	100n	C109
FCXCD4100000	100n	C110
FCXCD4100000	100n	C111
FCXCD4100000	100n	C112
FCXCD4100000	100n	C113
FCXCD4100000	100n	C114
FCXCD4100000	100n	C115
FCXCD4100000	100n	C116
FCXCD4100000	100n	C117
FCXCD4100000	100n	C118
FCXCD4470000	470n	C119
FCXCD4470000	470n	C120
FCXCD4100000	100n	C121
FCXCD4100000	100n	C122
FCCE30001000	1u/63	C123
FCCE30001000	1u/63	C124
FCXCD4470000	470n	C125
FCXCD4470000	470n	C126
FCCE30001000	1u/63	C127
FCCE30001000	1u/63	C128
FCCI01199000	Printed Board 11.1199	CI101
FCXDDBAS2800	BAS28	D101
FCXDDBAS2800	BAS28	D102
FCLEDSMD2000	TLMH3100	D103
FCLEDSMD2500	TLMY3100	D104
FCLEDSMD3000	TLMG3100	D105
FCLEDSMD3000	TLMG3100	D106
FCLEDSMD2000	TLMH3100	D107
FCLEDSMD2500	TLMY3100	D108
FCLEDSMD3000	TLMG3100	D109
FCLEDSMD3000	TLMG3100	D110
FCXDDBAS2800	BAS28	D111
FCXDDBAS2800	BAS28	D112
FCLEDSMD2000	TLMH3100	D113
FCLEDSMD2500	TLMY3100	D114
FCLEDSMD3000	TLMG3100	D115
FCLEDSMD3000	TLMG3100	D116
FCLEDSMD2000	TLMH3100	D117
FCLEDSMD2500	TLMY3100	D118
FCLEDSMD3000	TLMG3100	D119
FCLEDSMD3000	TLMG3100	D120
FCXDDBAS2800	BAS28	D121
FCXDDBAS2800	BAS28	D122
FCLEDSMD2000	TLMH3100	D123
FCLEDSMD2500	TLMY3100	D124
FCLEDSMD3000	TLMG3100	D125
FCLEDSMD3000	TLMG3100	D126
FCLEDSMD2000	TLMH3100	D127

PARTS LIST: PRINTED CIRCUIT 11.1199.02.00

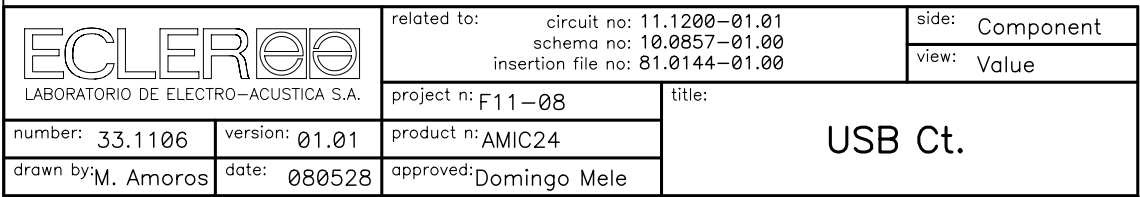
Code	Description	Reference
FCLEDSMD2500	TLMY3100	D128
FCLEDSMD3000	TLMG3100	D129
FCLEDSMD3000	TLMG3100	D130
FCIC07401000	TL074	IC101
FCIC07401000	TL074	IC102
FCIC07401000	TL074	IC103
FCIC07401000	TL074	IC104
FCIC07401000	TL074	IC105
FCIC07201000	TL072	IC106
FCIC07401000	TL074	IC107
FCIC07401000	TL074	IC108
FCXR54348000	34k8	R101
FCXR54348000	34k8	R102
FCXR55100000	100k	R103
FCXR55100000	100k	R104
FCXR54147000	14k7	R105
FCXR54162000	16k2	R106
FCXR54178000	17k8	R107
FCXR54562000	56k2	R108
FCXR54147000	14k7	R109
FCXR54162000	16k2	R110
FCXR54178000	17k8	R111
FCXR54562000	56k2	R112
FCXR53316000	3k16	R113
FCXR53100000	1k0	R114
FCXR52178000	178	R115
FCXR52100000	100.0	R116
FCXR53316000	3k16	R117
FCXR53100000	1k0	R118
FCXR52178000	178	R119
FCXR52100000	100.0	R120
FCXR54133000	13k3	R121
FCXR54100000	10k0	R122
FCXR54100000	10k0	R123
FCXR54100000	10k0	R124
FCXR54133000	13k3	R125
FCXR54100000	10k0	R126
FCXR54100000	10k0	R127
FCXR54100000	10k0	R128
FCXR54681000	68k1	R129
FCXR54681000	68k1	R130
FCXR55100000	100k	R131
FCXR55100000	100k	R132
FCXR54147000	14k7	R133
FCXR54162000	16k2	R134
FCXR54178000	17k8	R135
FCXR54562000	56k2	R136
FCXR54147000	14k7	R137
FCXR54162000	16k2	R138
FCXR54178000	17k8	R139
FCXR54562000	56k2	R140
FCXR53316000	3k16	R141
FCXR53100000	1k0	R142
FCXR52178000	178	R143
FCXR52100000	100.0	R144
FCXR53316000	3k16	R145

PARTS LIST: PRINTED CIRCUIT 11.1199.02.00

Code	Description	Reference
FCXR53100000	1k0	R146
FCXR52178000	178	R147
FCXR52100000	100.0	R148
FCXR54133000	13k3	R149
FCXR54100000	10k0	R150
FCXR54100000	10k0	R151
FCXR54100000	10k0	R152
FCXR54133000	13k3	R153
FCXR54100000	10k0	R154
FCXR54100000	10k0	R155
FCXR54100000	10k0	R156
FCXR54681000	68k1	R157
FCXR54681000	68k1	R158
FCXR55100000	100k	R159
FCXR55100000	100k	R160
FCXR54147000	14k7	R161
FCXR54162000	16k2	R162
FCXR54178000	17k8	R163
FCXR54562000	56k2	R164
FCXR54147000	14k7	R165
FCXR54162000	16k2	R166
FCXR54178000	17k8	R167
FCXR54562000	56k2	R168
FCXR53316000	3k16	R169
FCXR53100000	1k0	R170
FCXR52178000	178	R171
FCXR52100000	100.0	R172
FCXR53316000	3k16	R173
FCXR53100000	1k0	R174
FCXR52178000	178	R175
FCXR52100000	100.0	R176
FCXR54133000	13k3	R177
FCXR54100000	10k0	R178
FCXR54100000	10k0	R179
FCXR54100000	10k0	R180
FCXR54133000	13k3	R181
FCXR54100000	10k0	R182
FCXR54100000	10k0	R183
FCXR54100000	10k0	R184
FCXR55100000	100k	R185
FCXR55100000	100k	R186
FCXR55100000	100k	R187
FCXR55100000	100k	R188
FCXR55100000	100k	R189
FCXR55100000	100k	R190
FCSEPCI02000	Spacer M3x13	SP101
FCSEPCI02000	Spacer M3x13	SP102
FCSEPCI02000	Spacer M3x13	SP103
FCSEPCI02000	Spacer M3x13	SP104
FCSEPCI02000	Spacer M3x13	SP105
FC4R00214000	1002.01.40	WI101
FC0C01215000	1012.01.50	WI102



<div><div>ECLEREE</div><div>LABORATORIO DE ELECTRO-ACUSTICA S.A.</div></div>		related to: circuit no: 11.1200-01.01 schema no: 10.0857-01.00 insertion file no: 81.0144-01.00		side: Component
		project n: F11-08	title:	view: Reference
number: 33.1105	version: 01.01	product n: AMIC24	USB Ct.	
drawn by: M. Amoros	date: 080528	approved: Domingo Mele		



PARTS LIST: PRINTED CIRCUIT 11.1200.01.01

Code	Description	Reference
FCCE25010000	10u/50	C101
FCXCD4100000	100n	C102
FCCE25010000	10u/50	C103
FCXCD4100000	100n	C104
FCXCD4100000	100n	C105
FCXCD4100000	100n	C106
FCXCD4100000	100n	C107
FCXCD1100000	10p	C108
FCXCD4033000	33n	C109
FCXCD1220000	22p	C110
FCXCD1220000	22p	C111
FCXCD1100000	10p	C112
FCXCD1100000	10p	C113
FCXCD1100000	10p	C114
FCXCD4100000	100n	C115
FCXCD4470000	470n	C116
FCCI01200000	Printed Board 11.1200	CI101
FCXFER010000	Ferrite 31	FB101
FCXFER010000	Ferrite 31	FB102
FCIC02320000	FT232BM	IC101
FCIC093C4600	AT93C46	IC102
FCBASUSB0000	YKF45-0018	J101
FCXR52464000	464	R101
FCXR53147000	1k47	R102
FCXR53464000	4k64	R103
FCXR51562000	56.2	R104
FCXR51562000	56.2	R105
FCXR53215000	2k15	R106
FCXR54100000	10k0	R107
FC4R00210000	1002.01.00	WI101
FCCRIS006000	6MHz	X101

BURNING TEST

Leave the unit connected to its nominal mains voltage during 24 hours.

SAFETY VERIFICATION TESTS

Preliminary:

Unplug the unit to be tested from the mains outlet.

Short all ground terminals from signal inputs, outputs and other external connectors, except the mains plug's ground.

Turn ON the unit's main power switch.

Ground continuity test:

Connect the tester probes between the mains ground contact and the unit's backside main ground test point. When applying a 10A current, verify that the ground impedance is lower than 0'1Ω.

Electrical insulation test:

Connect the electrical insulation tester probes between the mains outlet ground contact and both shorted mains input poles.

Adjust the tester's current limit down to 10mA.

Apply 1500Vac during 5 seconds.

The unit's insulation should be able to resist this voltage, without generating spurious sparks or a sparkover effect, and the tester may not detect any malfunction.

CAUTION: Do not disconnect nor touch the test probes until the test has finished completely!

QUALITY CONTROL

All mechanical parts should be visually revised, in order to detect scratches on the unit's painting; all screws should be on their place, correctly tight and unmarked. Check out the unit's general presentation.

PRELIMINARY

Have an audio signal source available, such as a CD-player (recommended).

Also have available a mixing console with balanced output ports.

Connect the output (balanced) of the mixer with the CH1 input of the AMIC24 processor.

Use balanced audio wiring for all connections during tests on this unit.

VERIFICATION

Connect the input channel of the amplifier to OUTPUT 1 of the processor.

Verify the processor is filtering correctly.

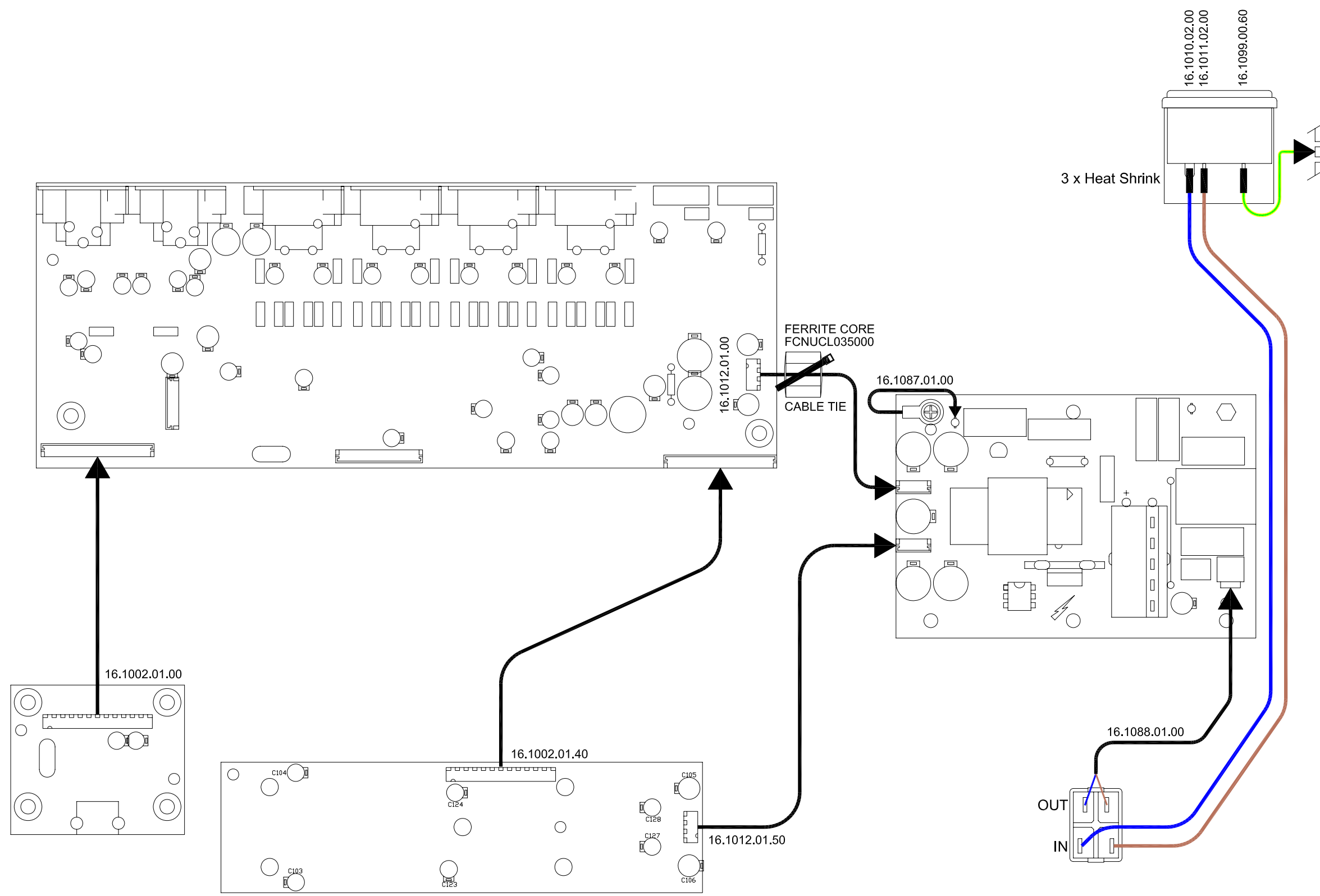
The Vu-meter indicating led should be lit.

Repeat this procedure on the all inputs and output's processor channels.

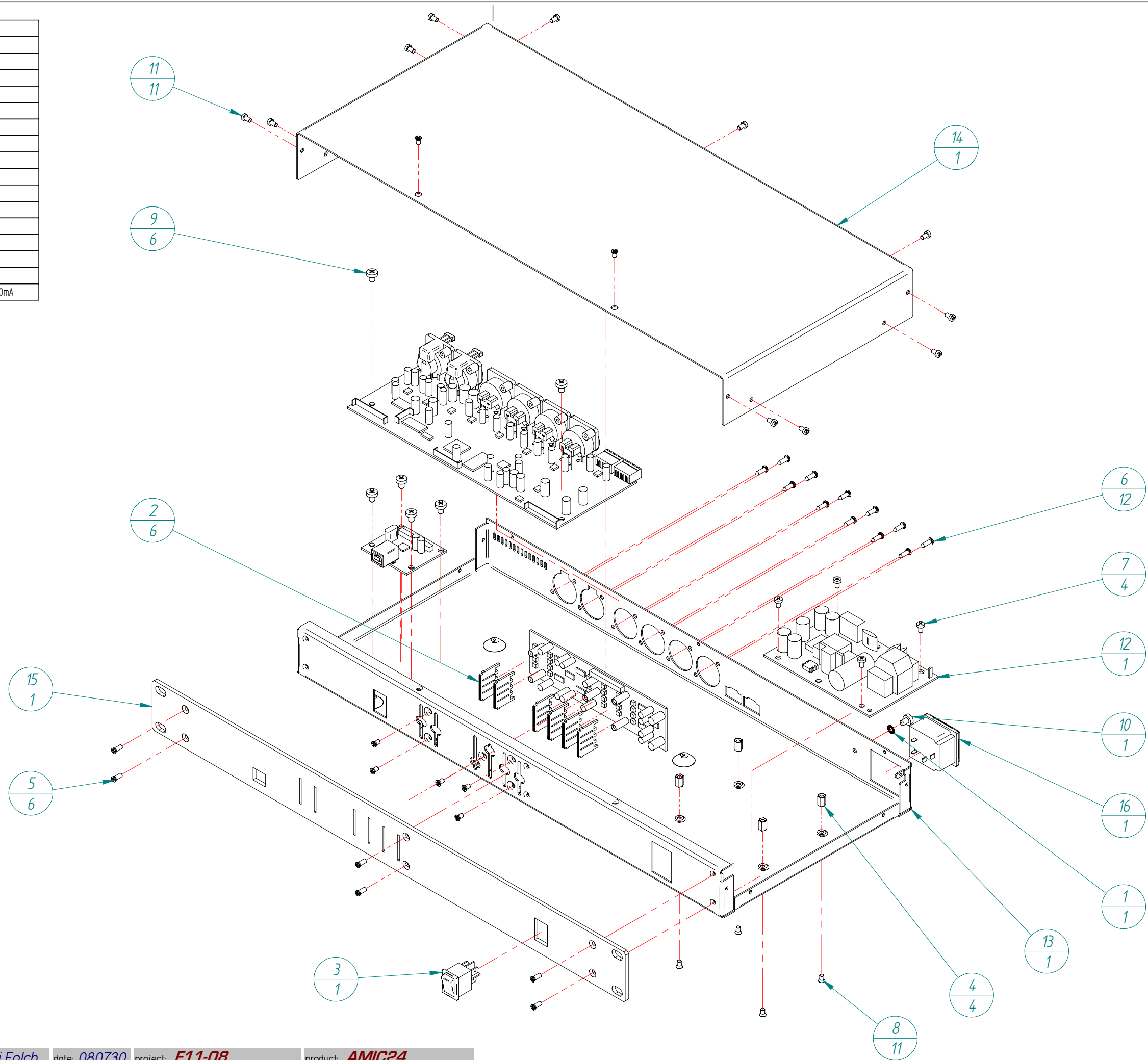
Verify all inputs and output's background noise, hit the unit again your working table and check that no annoying noise is heard due to a junction default.

Processing:	
A/D & D/A	24 bit, 48kHz
DSP	48 bits
Latency	0.585ms
Input / Output:	2 Inputs / 4 outputs
Input Levels: Nominal / Maximum	0dBV / +12dBV
Input attenuator:	Stepless from -84dB to +12dB
Input Impedance:	Balanced, 30k Ω
Output impedance:	300 Ω balanced
CMRR (20Hz - 20kHz):	>60dB
Distortion @ 0dBV 20Hz-20kHz:	<0.008%
Frequency Response (-0.3dB):	10Hz - 20kHz
Noise from 20Hz to 20kHz:	below -105dB
Crosstalk (20Hz-20kHz):	>85dB
Maximum Delay:	910ms (312.5m) total for all 4 channels.
Delay resolution:	20.83 μ s (7mm)
Compressor / Limiter:	
Threshold	from -48dBV to +12dBV
Ratio	1:1 to ∞ :1 (limiter)
Attack time	Auto or from 0.1ms to 150ms.
Release time	Auto or from 1ms to 5s.
High & Low pass Crossover filters	Butterworth in 6/12/18/24dB/oct. Bessel in 12/18/24dB/oct Linkwitz-Riley in 12/24dB/oct.
Parametric Eq types (10 max. per output)	-Bypass -Param. Eq. 20Hz-20kHz; -60/+12dB; Q from =.3 to 200 -Low & High Shelf 6/12 dB/oct -Low & High Pass 6/12 dB/oct. -All-Pass 1/2 order
Built In signal generator	-Sine (20Hz to 20kHz) -Polarity(20Hz to 20kHz) -White -Pink
Signal Mute	Yes
Signal Polarity Invert	Yes
Analog Volume remote control (0-10VDC)	0V.= no attenuation (0dB) / +10V. = full attenuation (- ∞ .)
Connectivity:	USB1.1 (2.0 compatible)
Mains	90-264VAC 47-63Hz
Power consumption	25VA
Dimensions	482.6x44x198mm
Weight	2.25 kg.

OLD VERSION



Nº	Qty.	Code	Description
1	1	FCARS4000000	SEGMENTED WASHER M4
2	6	FCGUAL50000	VUMETER LIGHT GUIDE 4 LEDS
3	1	FCINTRED2000	MAINS SWITCH
4	4	FCSEP3080000	HEXAGONAL SPACER M3x8
5	6	FCT200300800	SCREW DIN965 M3x8 BLACK
6	12	FCT400290900	SCREW 2,9x9,5 D7981F BLACK
7	4	FCT803005000	SCREW DIN 7985 M3x5 COMBI
8	11	FCT803005500	SCREW DIN965 M3x5 BLACK
9	6	FCT804006000	SCREW M4x6 SPANLO BLACK
10	1	FCT804006100	SCREW M4x6 SPANLO WHITE
11	11	FCT850300500	SCREW M3x5 REDUCED HEAD
12	1	FMFONT30C000	FONT30C POWER SUPPLY
13	1	FP0307500000	BASE CHASSIS
14	1	FP0307600000	TOP COVER
15	1	FP0307700000	FRONT PANEL
16	1	FRBASRE20680	MAINS SOCKET AC013 W/FUSE 500mA



N°	Qty.	Code	Description
1	4	FCARANY06000	WASHER M6 NYLON BLACK 12x6,4x1,5
2	1	FCBOL0010000	PLASTIC SLEEVE 60x80
3	1	FCBOLS010000	STANDARD PLASTIC BAG 43x60
4	1	FCCAUSTA1600	PACKING CARDBOARD BOX
5	2	FCCANT113000	INTERIOR REINFORCEMENT 1U
6	1	FCCDR0035000	AMICLAB2 SOFTWARE CD
7	1	FCCONX017500	MAINS CABLE 3x1
8	1	FCCXUSB010	USB A-B INTERCONNECTION CABLE
9	1	FCETI0951140	PRODUCT LABEL PACK (ONE FOR EACH UNIT)
10	1	FCFUNMAN0000	USER MANUAL BAG
11	2	FCREG1007000	CONNECTING TERMINAL STRIPS 3C
12	1	FCTARJG00000	WARRANTY CARD

