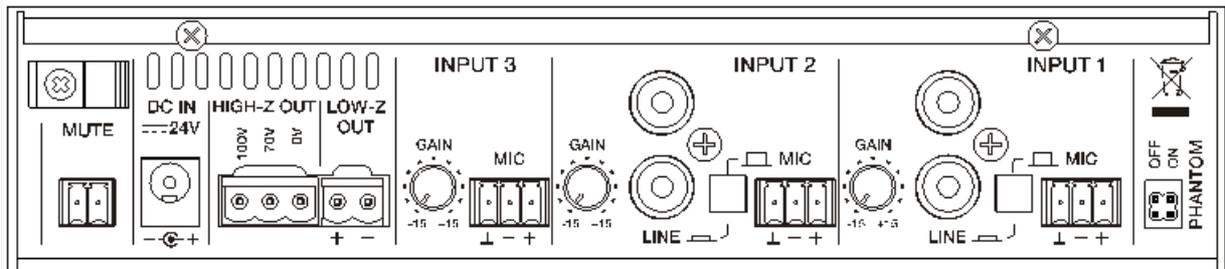
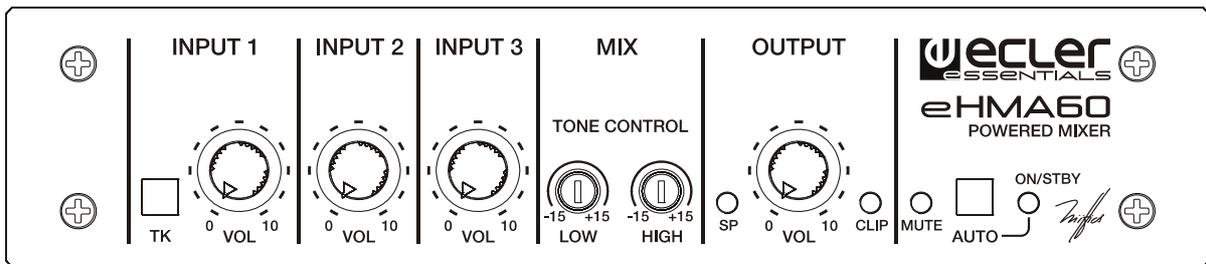


eHMA60

SERVICE MANUAL

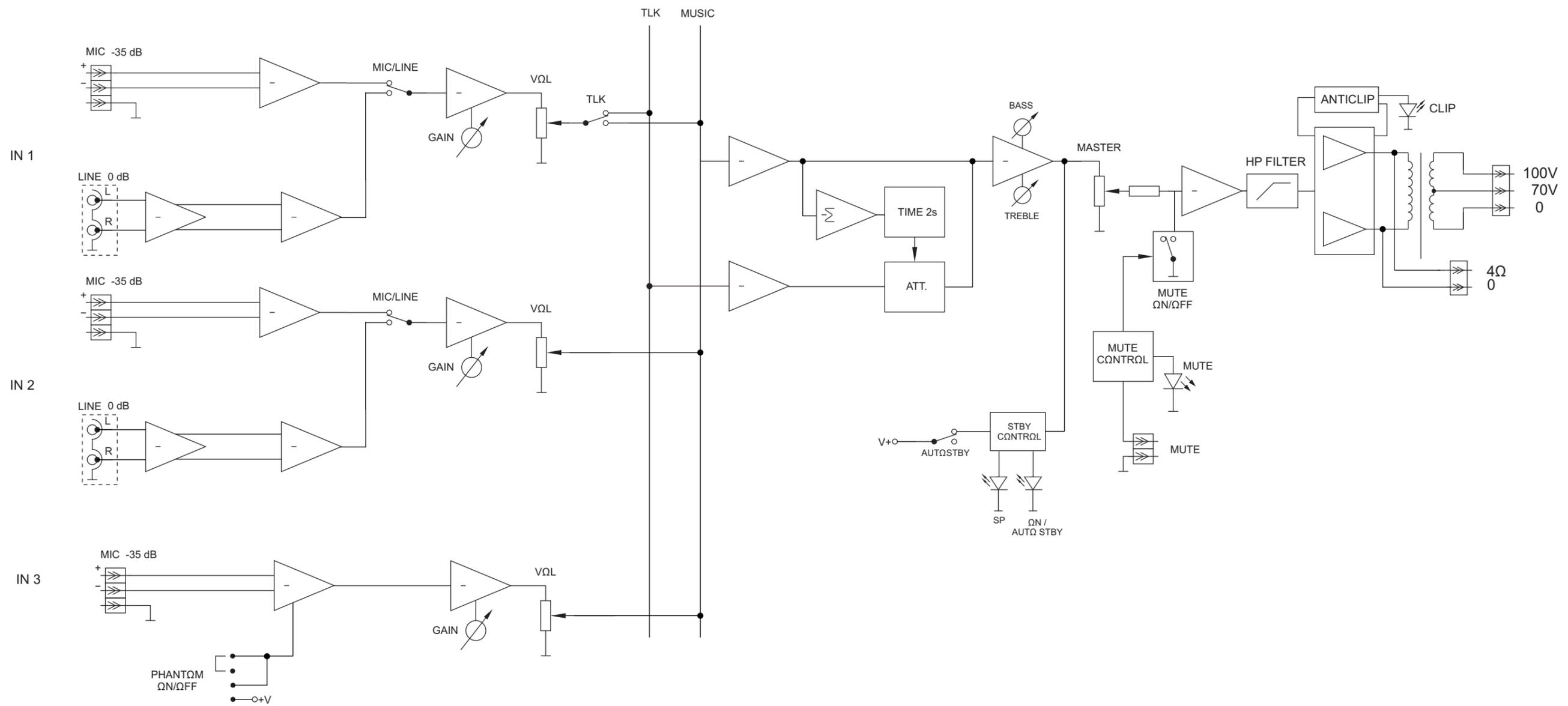


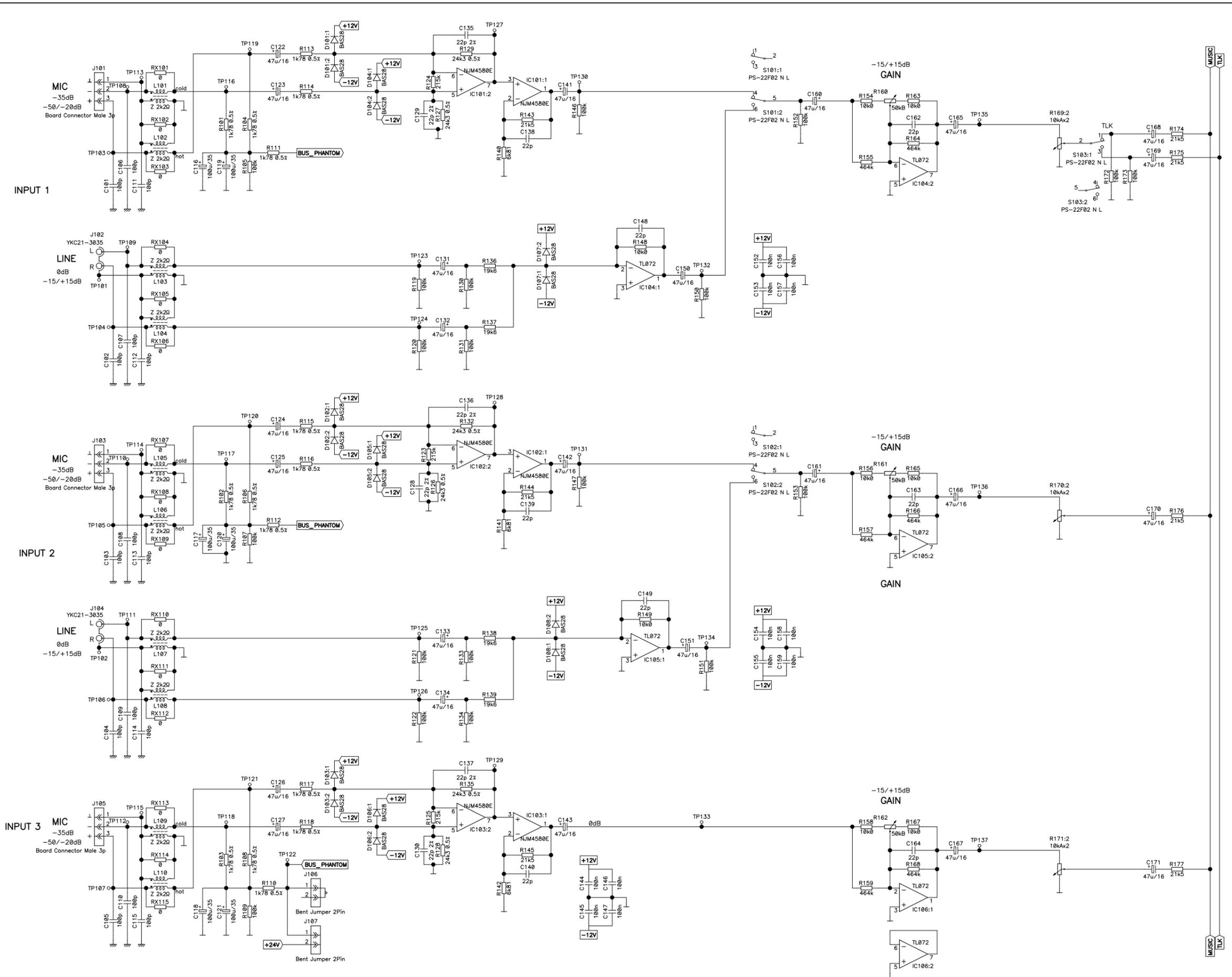
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SERVICE MANUAL eHMA60

INDEX

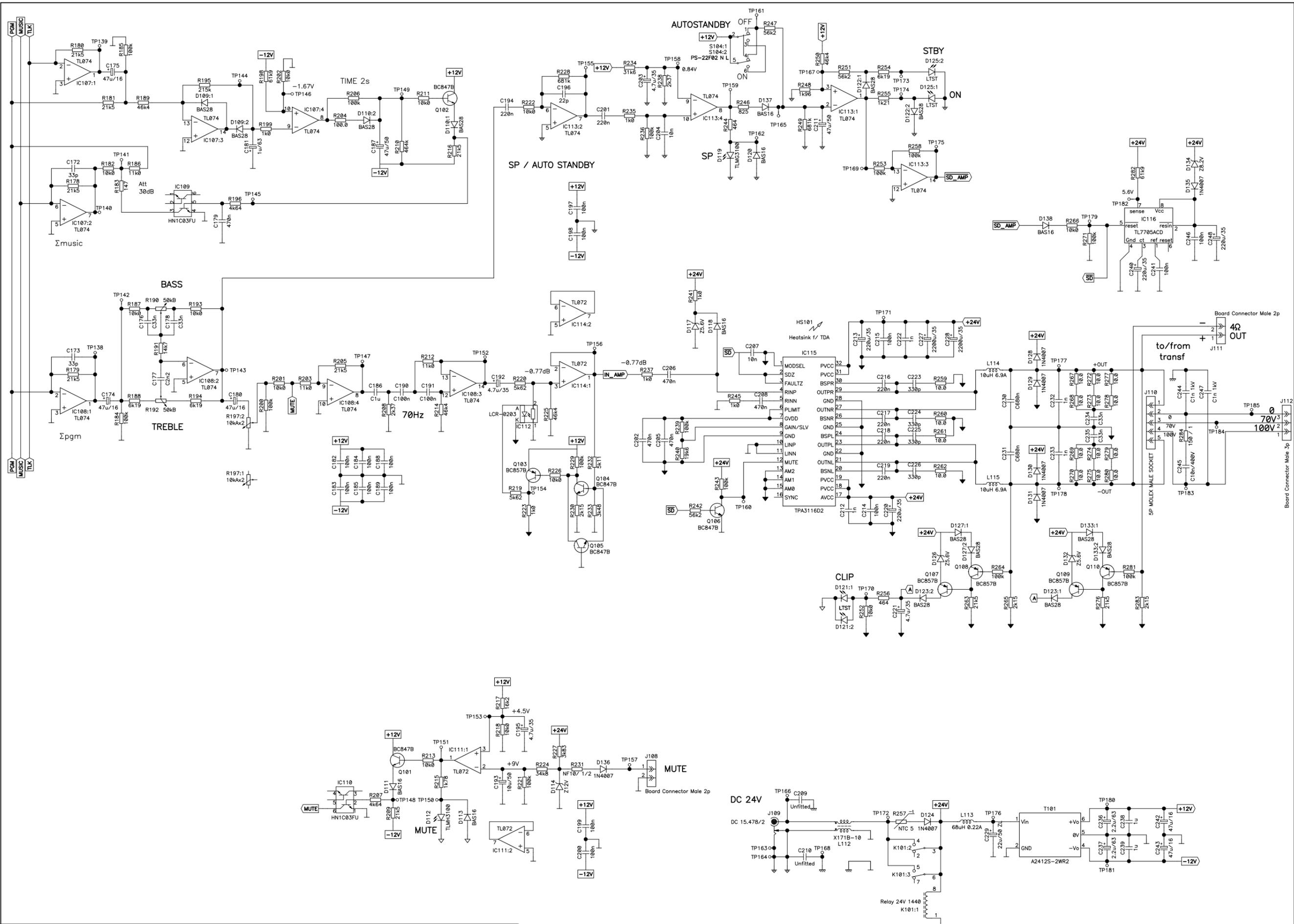
- BLOCK DIAGRAM
- SCHEMATICS
- COMPONENTS LOCATION SCHEMA
- TESTING AND QUALITY CONTROL
- TECHNICAL CHARACTERISTICS
- WIRING DIAGRAM
- MECHANICAL DIAGRAM
- PACKING DIAGRAM



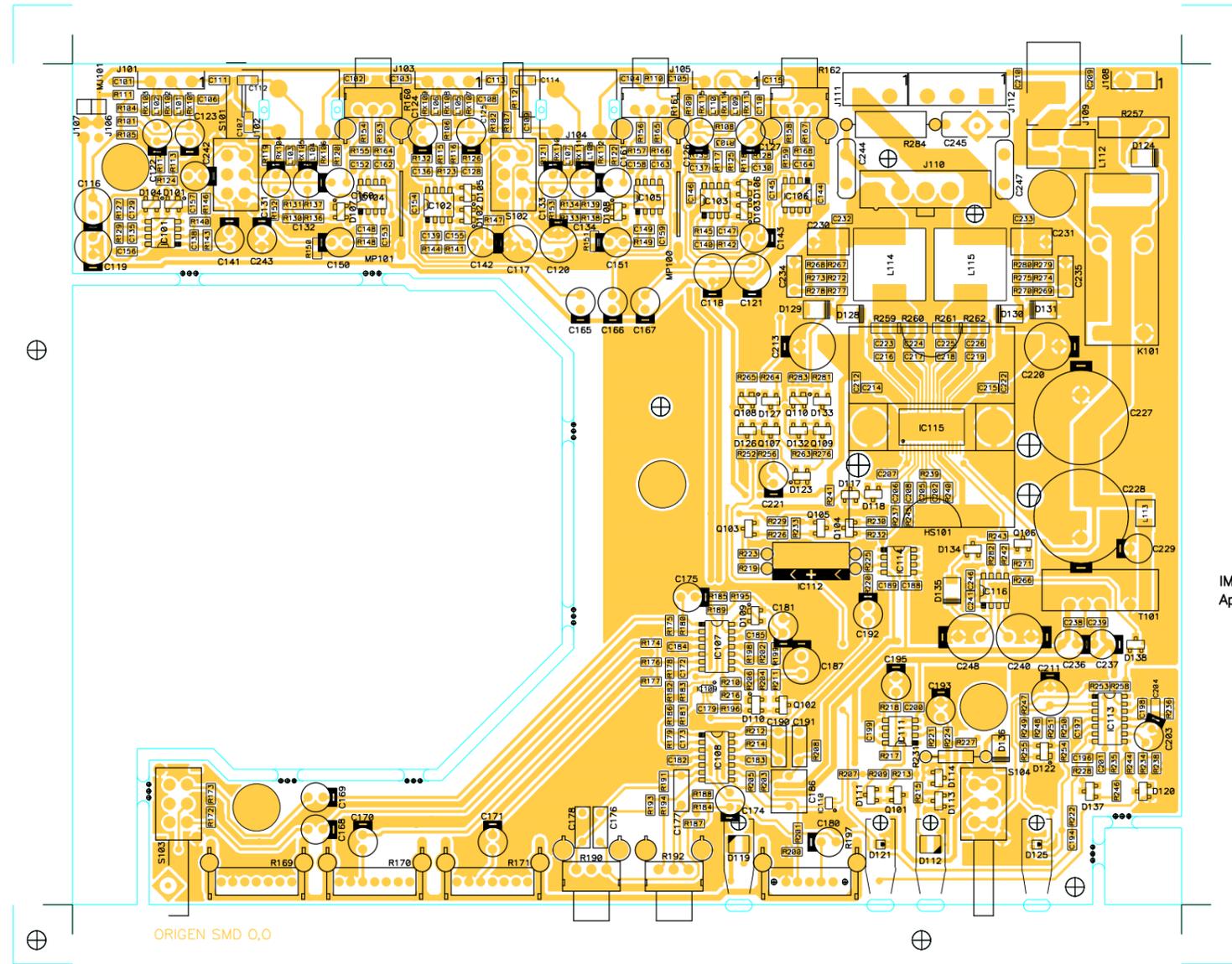


Printed Board 11.1528

	drawn by: J.M.Pinol	date: 010716	approved: Mingo Mele
	project n: EP15-16	title: Overall Sch.	
number: 10.1132	version: 02.00	page: 1 of 2	

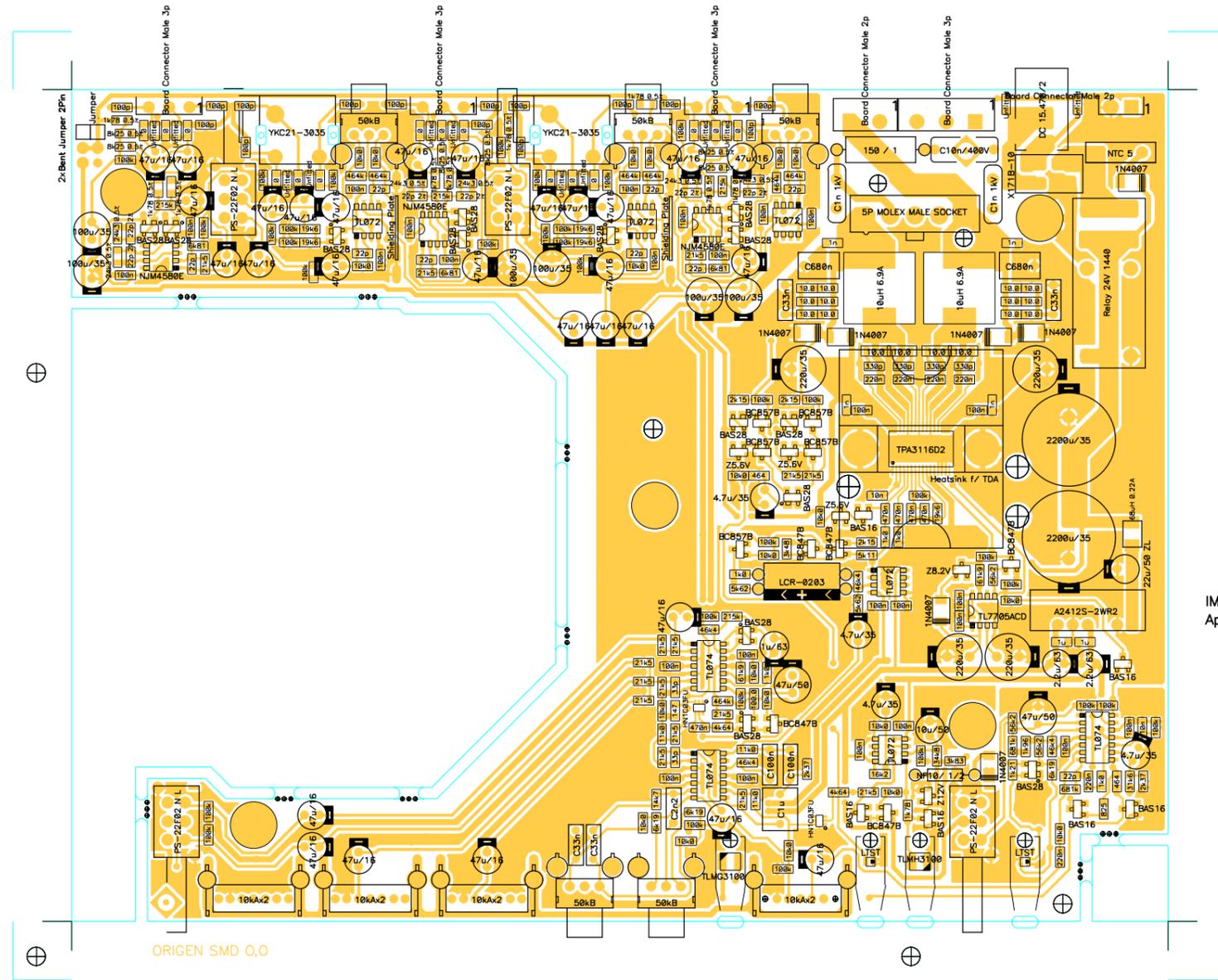


	drawn by: J.M. Pinol	date: 010716	approved: Mingo Mele
	project n: EP15-16	title: Overall Sch.	
number: 10.1132	product n: eHMA60	page: 2 of 2	
version: 02.00			

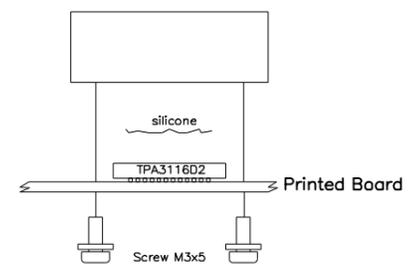


IMPORTANT NOTE:
Apply Clear Silicone in component T101

		related to:	circuit no: 11.1528.04.00 schema no: 10.1132.04.00 insertion file no: 81.0263.04.00	side: Component
		project n:	EP15-16	view: Reference
number: 33.1456	version: 04.00	product n:	eHMA60	<h2>Main Ct.</h2>
drawn by: JM Pinol	date: 161006	approved:	Mingo Mele	



IMPORTANT NOTE:
Apply Clear Silicone in component T101



		related to:	circuit no: 11.1528.04.00 schema no: 10.1132.04.00 insertion file no: 81.0263.04.00	side:	Component
		project n:	EP15-16	view:	Value
number:	33.1457	version:	04.00	<h1>Main Ct.</h1>	
drawn by:	JM Pinol	date:	161006		
		product n:	eHMA60		
		approved:	Mingo Mele		

PARTS LIST: Printed Board 11.1528.03.00

Code	Description	Reference
FCXCD2100000	100p	C101
FCXCD2100000	100p	C102
FCXCD2100000	100p	C103
FCXCD2100000	100p	C104
FCXCD2100000	100p	C105
FCXCD2100000	100p	C106
FCXCD2100000	100p	C107
FCXCD2100000	100p	C108
FCXCD2100000	100p	C109
FCXCD2100000	100p	C110
FCXCD2100000	100p	C111
FCXCD2100000	100p	C112
FCXCD2100000	100p	C113
FCXCD2100000	100p	C114
FCXCD2100000	100p	C115
FCCE15100000	100u/35	C116
FCCE15100000	100u/35	C117
FCCE15100000	100u/35	C118
FCCE15100000	100u/35	C119
FCCE15100000	100u/35	C120
FCCE15100000	100u/35	C121
FCCE10000000	47u/16	C122
FCCE10000000	47u/16	C123
FCCE10000000	47u/16	C124
FCCE10000000	47u/16	C125
FCCE10000000	47u/16	C126
FCCE10000000	47u/16	C127
FCXCD1220100	22p 2%	C128
FCXCD1220100	22p 2%	C129
FCXCD1220100	22p 2%	C130
FCCE10000000	47u/16	C131
FCCE10000000	47u/16	C132
FCCE10000000	47u/16	C133
FCCE10000000	47u/16	C134
FCXCD1220100	22p 2%	C135
FCXCD1220100	22p 2%	C136
FCXCD1220100	22p 2%	C137
FCXCD1220000	22p	C138
FCXCD1220000	22p	C139
FCXCD1220000	22p	C140
FCCE10000000	47u/16	C141
FCCE10000000	47u/16	C142
FCCE10000000	47u/16	C143
FCXCD4100000	100n	C144
FCXCD4100000	100n	C145
FCXCD4100000	100n	C146
FCXCD4100000	100n	C147
FCXCD1220000	22p	C148
FCXCD1220000	22p	C149
FCCE10000000	47u/16	C150
FCCE10000000	47u/16	C151
FCXCD4100000	100n	C152
FCXCD4100000	100n	C153
FCXCD4100000	100n	C154
FCXCD4100000	100n	C155
FCXCD4100000	100n	C156
FCXCD4100000	100n	C157
FCXCD4100000	100n	C158
FCXCD4100000	100n	C159
FCCE10000000	47u/16	C160
FCCE10000000	47u/16	C161
FCXCD1220000	22p	C162
FCXCD1220000	22p	C163
FCXCD1220000	22p	C164
FCCE10000000	47u/16	C165
FCCE10000000	47u/16	C166

PARTS LIST: Printed Board 11.1528.03.00

Code	Description	Reference
FCCE10000000	47u/16	C167
FCCE10000000	47u/16	C168
FCCE10000000	47u/16	C169
FCCE10000000	47u/16	C170
FCCE10000000	47u/16	C171
FCXCD1330000	33p	C172
FCXCD1330000	33p	C173
FCCE10000000	47u/16	C174
FCCE10000000	47u/16	C175
FCCDK1033000	C33n	C176
FCCDK1002200	C2n2	C177
FCCDK1033000	C33n	C178
FCXCD4470000	470n	C179
FCCE10000000	47u/16	C180
FCCE30001000	1u/63	C181
FCXCD4100000	100n	C182
FCXCD4100000	100n	C183
FCXCD4100000	100n	C184
FCXCD4100000	100n	C185
FCCDK2001000	C1u	C186
FCCE25047000	47u/50	C187
FCXCD4100000	100n	C188
FCXCD4100000	100n	C189
FCCDK1100000	C100n	C190
FCCDK1100000	C100n	C191
FCCE20004700	4.7u/35	C192
FCCE25010000	10u/50	C193
FCXCD4220000	220n	C194
FCCE20004700	4.7u/35	C195
FCXCD1220000	22p	C196
FCXCD4100000	100n	C197
FCXCD4100000	100n	C198
FCXCD4100000	100n	C199
FCXCD4100000	100n	C200
FCXCD4220000	220n	C201
FCXCD4470000	470n	C202
FCCE20004700	4.7u/35	C203
FCXCD4010000	10n	C204
FCXCD4470000	470n	C205
FCXCD4470000	470n	C206
FCXCD4010000	10n	C207
FCXCD4470000	470n	C208
FCCE25047000	47u/50	C211
FCXCD4001000	1n	C212
FCCE15220000	220u/35	C213
FCXCD4100000	100n	C214
FCXCD4100000	100n	C215
FCXCD4220000	220n	C216
FCXCD4220000	220n	C217
FCXCD4220000	220n	C218
FCXCD4220000	220n	C219
FCCE15220000	220u/35	C220
FCCE20004700	4.7u/35	C221
FCXCD4001000	1n	C222
FCXCD2330000	330p	C223
FCXCD2330000	330p	C224
FCXCD2330000	330p	C225
FCXCD2330000	330p	C226
FCCE21220000	2200u/35	C227
FCCE21220000	2200u/35	C228
FCCE25022000	22u/50 ZL	C229
FCCDK1680000	C680n	C230
FCCDK1680000	C680n	C231
FCXCD4001000	1n	C232
FCXCD4001000	1n	C233
FCCDK1033000	C33n	C234

PARTS LIST: Printed Board 11.1528.03.00

Code	Description	Reference
FCCDK1033000	C33n	C235
FCCE30002200	2.2u/63	C236
FCCE30002200	2.2u/63	C237
FCXCD4001020	1u	C238
FCXCD4001020	1u	C239
FCCE15220000	220u/35	C240
FCXCD4100000	100n	C241
FCCE10000000	47u/16	C242
FCCE10000000	47u/16	C243
FCCCD5100100	C1n 1kV	C244
FCCDH7101100	C10n/400V	C245
FCXCD4100000	100n	C246
FCCCD5100100	C1n 1kV	C247
FCCE15220000	220u/35	C248
FCCI01528000	Printed Board 11.1528	CI101
FCXDDBAS2800	BAS28	D101
FCXDDBAS2800	BAS28	D102
FCXDDBAS2800	BAS28	D103
FCXDDBAS2800	BAS28	D104
FCXDDBAS2800	BAS28	D105
FCXDDBAS2800	BAS28	D106
FCXDDBAS2800	BAS28	D107
FCXDDBAS2800	BAS28	D108
FCXDDBAS2800	BAS28	D109
FCXDDBAS2800	BAS28	D110
FCXDDBAS1600	BAS16	D111
FCLEDSMD2000	TLMH3100	D112
FCXDDBAS1600	BAS16	D113
FCXZ00012000	Z12V	D114
FCXZ00005600	Z5.6V	D117
FCXDDBAS1600	BAS16	D118
FCLEDSMD3000	TLMG3100	D119
FCXDDBAS1600	BAS16	D120
FCLEDSMD4000	LTST	D121
FCXDDBAS2800	BAS28	D122
FCXDDBAS2800	BAS28	D123
FCXDD4007000	1N4007	D124
FCLEDSMD4000	LTST	D125
FCXZ00005600	Z5.6V	D126
FCXDDBAS2800	BAS28	D127
FCXDD4007000	1N4007	D128
FCXDD4007000	1N4007	D129
FCXDD4007000	1N4007	D130
FCXDD4007000	1N4007	D131
FCXZ00005600	Z5.6V	D132
FCXDDBAS2800	BAS28	D133
FCXZ00008200	Z8.2V	D134
FCXDD4007000	1N4007	D135
FCXDD4007000	1N4007	D136
FCXDDBAS1600	BAS16	D137
FCXDDBAS1600	BAS16	D138
FCRAD3389000	Heatsink f/ TDA	HS101
FCIC4580E000	NJM4580E	IC101
FCIC4580E000	NJM4580E	IC102
FCIC4580E000	NJM4580E	IC103
FCIC07201000	TL072	IC104
FCIC07201000	TL072	IC105
FCIC07201000	TL072	IC106
FCIC07401000	TL074	IC107
FCIC07401000	TL074	IC108
FCTRH1C0300	HN1C03FU	IC109
FCTRH1C0300	HN1C03FU	IC110
FCIC07201000	TL072	IC111
FCOPTVTL5100	LCR-0203	IC112
FCIC07401000	TL074	IC113
FCIC07201000	TL072	IC114

PARTS LIST: Printed Board 11.1528.03.00

Code	Description	Reference
FCIC03116000	TPA3116D2	IC115
FCIC77050000	TL7705ACD	IC116
FCREG3007000	Board Connector Male 3p	J101
FCBASR060000	YKC21-3035	J102
FCREG3007000	Board Connector Male 3p	J103
FCBASR060000	YKC21-3035	J104
FCREG3007000	Board Connector Male 3p	J105
FCTERM060000	Bent Jumper 2Pin	J106
FCTERM060000	Bent Jumper 2Pin	J107
FCREG3008000	Board Connector Male 2p	J108
FCBASAL15478	DC 15.478/2	J109
FCCTAMP05100	5P MOLEX MALE SOCKET	J110
FCREG1016000	Board Connector Male 2p	J111
FCREG1017000	Board Connector Male 3p	J112
FCREL1007400	Relay 24V 1440	K101
FCCHKX220000	Unfitted	L101
FCCHKX220000	Unfitted	L102
FCCHKX220000	Unfitted	L103
FCCHKX220000	Unfitted	L104
FCCHKX220000	Unfitted	L105
FCCHKX220000	Unfitted	L106
FCCHKX220000	Unfitted	L107
FCCHKX220000	Unfitted	L108
FCCHKX220000	Unfitted	L109
FCCHKX220000	Unfitted	L110
FCCHK0100B10	X171B-10	L112
FCCHKX068000	68uH 0.22A	L113
FCCHKX100010	10uH 6.9A	L114
FCCHKX100010	10uH 6.9A	L115
FCMJ00010000	Jumper	MJ101
FP0289300000	Shielding Plate	MP100
FP0289300000	Shielding Plate	MP101
FCXTT0847000	BC847B	Q101
FCXTT0847000	BC847B	Q102
FCXTT0857000	BC857B	Q103
FCXTT0847000	BC847B	Q104
FCXTT0847000	BC847B	Q105
FCXTT0847000	BC847B	Q106
FCXTT0857000	BC857B	Q107
FCXTT0857000	BC857B	Q108
FCXTT0857000	BC857B	Q109
FCXTT0857000	BC857B	Q110
FCXR63825000	8k25 0.5%	R101
FCXR63825000	8k25 0.5%	R102
FCXR63825000	8k25 0.5%	R103
FCXR63825000	8k25 0.5%	R104
FCXR55100000	100k	R105
FCXR63825000	8k25 0.5%	R106
FCXR55100000	100k	R107
FCXR63825000	8k25 0.5%	R108
FCXR55100000	100k	R109
FCXR63178000	1k78 0.5%	R110
FCXR63178000	1k78 0.5%	R111
FCXR63178000	1k78 0.5%	R112
FCXR63178000	1k78 0.5%	R113
FCXR63178000	1k78 0.5%	R114
FCXR63178000	1k78 0.5%	R115
FCXR63178000	1k78 0.5%	R116
FCXR63178000	1k78 0.5%	R117
FCXR63178000	1k78 0.5%	R118
FCXR55100000	100k	R119
FCXR55100000	100k	R120
FCXR55100000	100k	R121
FCXR55100000	100k	R122
FCXR55215000	215k	R123
FCXR55215000	215k	R124

PARTS LIST: Printed Board 11.1528.03.00

Code	Description	Reference
FCXR55215000	215k	R125
FCXR64243000	24k3 0.5%	R126
FCXR64243000	24k3 0.5%	R127
FCXR64243000	24k3 0.5%	R128
FCXR64243000	24k3 0.5%	R129
FCXR55100000	100k	R130
FCXR55100000	100k	R131
FCXR64243000	24k3 0.5%	R132
FCXR55100000	100k	R133
FCXR55100000	100k	R134
FCXR64243000	24k3 0.5%	R135
FCXR54196000	19k6	R136
FCXR54196000	19k6	R137
FCXR54196000	19k6	R138
FCXR54196000	19k6	R139
FCXR53681000	6k81	R140
FCXR53681000	6k81	R141
FCXR53681000	6k81	R142
FCXR54215000	21k5	R143
FCXR54215000	21k5	R144
FCXR54215000	21k5	R145
FCXR55100000	100k	R146
FCXR55100000	100k	R147
FCXR54100000	10k0	R148
FCXR54100000	10k0	R149
FCXR55100000	100k	R150
FCXR55100000	100k	R151
FCXR55100000	100k	R152
FCXR55100000	100k	R153
FCXR54100000	10k0	R154
FCXR55464000	464k	R155
FCXR54100000	10k0	R156
FCXR55464000	464k	R157
FCXR54100000	10k0	R158
FCXR55464000	464k	R159
FCPR11703000	50kB	R160
FCPR11703000	50kB	R161
FCPR11703000	50kB	R162
FCXR54100000	10k0	R163
FCXR55464000	464k	R164
FCXR54100000	10k0	R165
FCXR55464000	464k	R166
FCXR54100000	10k0	R167
FCXR55464000	464k	R168
FCPR21004000	10kAx2	R169
FCPR21004000	10kAx2	R170
FCPR21004000	10kAx2	R171
FCXR55100000	100k	R172
FCXR55100000	100k	R173
FCXR54215000	21k5	R174
FCXR54215000	21k5	R175
FCXR54215000	21k5	R176
FCXR54215000	21k5	R177
FCXR54215000	21k5	R178
FCXR54215000	21k5	R179
FCXR54215000	21k5	R180
FCXR54215000	21k5	R181
FCXR54100000	10k0	R182
FCXR52147000	147	R183
FCXR55100000	100k	R184
FCXR55100000	100k	R185
FCXR54110000	11k0	R186
FCXR54100000	10k0	R187
FCXR53619000	6k19	R188
FCXR54464000	46k4	R189
FCPR11703000	50kB	R190

PARTS LIST: Printed Board 11.1528.03.00

Code	Description	Reference
FCXR54147000	14k7	R191
FCPR11703000	50kB	R192
FCXR54100000	10k0	R193
FCXR53619000	6k19	R194
FCXR55215000	215k	R195
FCXR53464000	4k64	R196
FCPR21004000	10kAx2	R197
FCXR54619000	61k9	R198
FCXR53100000	1k0	R199
FCXR55100000	100k	R200
FCXR54100000	10k0	R201
FCXR54100000	10k0	R202
FCXR54110000	11k0	R203
FCXR52100000	100.0	R204
FCXR54215000	21k5	R205
FCXR55100000	100k	R206
FCXR53464000	4k64	R207
FCXR53237000	2k37	R208
FCXR54215000	21k5	R209
FCXR55464000	464k	R210
FCXR54100000	10k0	R211
FCXR54110000	11k0	R212
FCXR54100000	10k0	R213
FCXR54464000	46k4	R214
FCXR53178000	1k78	R215
FCXR54215000	21k5	R216
FCXR54162000	16k2	R217
FCXR54100000	10k0	R218
FCXR53562000	5k62	R219
FCXR53562000	5k62	R220
FCXR55100000	100k	R221
FCXR54100000	10k0	R222
FCXR53100000	1k0	R223
FCXR54348000	34k8	R224
FCXR54464000	46k4	R225
FCXR54100000	10k0	R226
FCXR53383000	3k83	R227
FCXR55681000	681k	R228
FCXR55100000	100k	R229
FCXR53215000	2k15	R230
FCRF22100000	NF10/ 1/2	R231
FCXR53511000	5k11	R232
FCXR53348000	3k48	R233
FCXR54316000	31k6	R234
FCXR53100000	1k0	R235
FCXR55100000	100k	R236
FCXR53100000	1k0	R237
FCXR53237000	2k37	R238
FCXR55100000	100k	R239
FCXR54196000	19k6	R240
FCXR53100000	1k0	R241
FCXR54562000	56k2	R242
FCXR55100000	100k	R243
FCXR52464000	464	R244
FCXR53100000	1k0	R245
FCXR52825000	825	R246
FCXR54562000	56k2	R247
FCXR53196000	1k96	R248
FCXR55681000	681k	R249
FCXR54464000	46k4	R250
FCXR54562000	56k2	R251
FCXR54100000	10k0	R252
FCXR55100000	100k	R253
FCXR53619000	6k19	R254
FCXR53121000	1k21	R255
FCXR52464000	464	R256

PARTS LIST: Printed Board 11.1528.03.00

Code	Description	Reference
FCNTC0000500	NTC 5	R257
FCXR55100000	100k	R258
FCXR11100000	10.0	R259
FCXR11100000	10.0	R260
FCXR11100000	10.0	R261
FCXR11100000	10.0	R262
FCXR54215000	21k5	R263
FCXR55100000	100k	R264
FCXR53215000	2k15	R265
FCXR54100000	10k0	R266
FCXR51100000	10.0	R267
FCXR51100000	10.0	R268
FCXR51100000	10.0	R269
FCXR51100000	10.0	R270
FCXR55100000	100k	R271
FCXR51100000	10.0	R272
FCXR51100000	10.0	R273
FCXR51100000	10.0	R274
FCXR51100000	10.0	R275
FCXR54215000	21k5	R276
FCXR51100000	10.0	R277
FCXR51100000	10.0	R278
FCXR51100000	10.0	R279
FCXR51100000	10.0	R280
FCXR55100000	100k	R281
FCXR54619000	61k9	R282
FCXR53215000	2k15	R283
FCRP52150000	150 / 1	R284
FCXR50000000	0	RX101
FCXR50000000	0	RX102
FCXR50000000	0	RX103
FCXR50000000	0	RX104
FCXR50000000	0	RX105
FCXR50000000	0	RX106
FCXR50000000	0	RX107
FCXR50000000	0	RX108
FCXR50000000	0	RX109
FCXR50000000	0	RX110
FCXR50000000	0	RX111
FCXR50000000	0	RX112
FCXR50000000	0	RX113
FCXR50000000	0	RX114
FCXR50000000	0	RX115
FCINTAP01700	PS-22F02 N L	S101
FCINTAP01700	PS-22F02 N L	S102
FCINTAP01700	PS-22F02 N L	S103
FCINTAP01700	PS-22F02 N L	S104
FCT803005000	Screw M3x5 combi	SC101
FCT803005000	Screw M3x5 combi	SC102
FCFONT012000	A2412S-2WR2	T101

BURNING TEST

Leave the unit at the BURNING ROOM plugged to +24VDC and 4 OHM load for at least 12 hours and alternating switch ON and OFF cycles.

At least one unit of each series must be plugged to a +24 VDC with 4 ohm load and input signal. This could be done in ECLER Barcelona.

CHECKING WITH MUSIC PROCEDURE

REQUIRED MATERIAL

- Balanced microphone or MPAGE 1 console
- CD Player
- Mixer (SAM312i or equivalent)
- One AUDEO106 cabinet or similar
- Special EUROBLOCK plug with two LEDS (tool provided by ECLER)
- Special short-circuited EUROBLOCK plug (tool provided by ECLER)

PRELIMINARY

1. Place all the pushbuttons upwards (OFF position). Press the AUTOSTBY pushbutton only.
2. Turn the INPUT volumes down.
3. Adjust the MIC and MUSIC tone controls (Bass & Treble) to the center position.
4. Adjust the INPUT1 and INPUT2 ADJ (rear panel) to the CENTER.
5. Connect a CD player (music source) to one of the mixer's inputs.
6. Connect the loudspeaker to the AUDEO106 or similar, in 100V LINE configuration.
7. Plug the +24V POWER SUPPLY to the unit.
8. Check that the ON led is lighting and no more LEDs are turned off. Check that after a few seconds, the AUTOSTBY LED turns ON. Press the AUTOSTBY pushbutton again in order to disconnect the AUTOSTBY function.

LINE 1-2 INPUTS CHECKING

1. Turn the INPUT 1 volume potentiometer down. Connect the mixer output to the eHMA60 LINE1 input.
2. Press the MIC/LINE1 PUSHBUTTON. Turn the LINE1 volume potentiometer up. Verify that the SP and CLIP LEDS light properly (if needed, turn the mixer output level up to force that the CLIP LED turns on).
3. Check the behavior of the INPUT 1 GAIN potentiometer. Turn left and right and verify that it gains or reduces the signal level.
4. Make sure that the sound quality is correct, free from noise and distortion and with flat frequency response.
5. Repeat steps 1 to 4 for the LINE2.

MIC 1-2-3 INPUTS CHECKING and TALKOVER CHECKING

1. Verify that the PHANTOM is placed in ON position. If not, the MPAGE1 will not make any noise. Place it into ON position with the device off-powered.
2. Connect the microphone to the eHMA60 MIC1 input and release the MIC/LINE1 PUSHBUTTON.
3. Verify that the SP and CLIP LEDS light properly when making some noise onto the microphone cap.
4. Make sure that the sound quality is correct, free from noise and distortion and with flat frequency response.
5. Press the TLK PUSHBUTTON onto the INPUT 1 and connect the mixer output to the LINE 2 input. Press the MIC/LINE2 PUSHBUTTON. Verify that the use of the microphone fades the music level away. The release time is 2 seconds. Release the TLK PUSHBUTTON.
6. Place the PHANTOM jumper is placed on OFF position. Check that the PHANTOM is not working by placing the EUROBLOCK tool into the MIC inputs.
7. Repeat steps 1 to 4 for the MIC2 and MIC3.

OUTPUTS and MUTE CHECKING

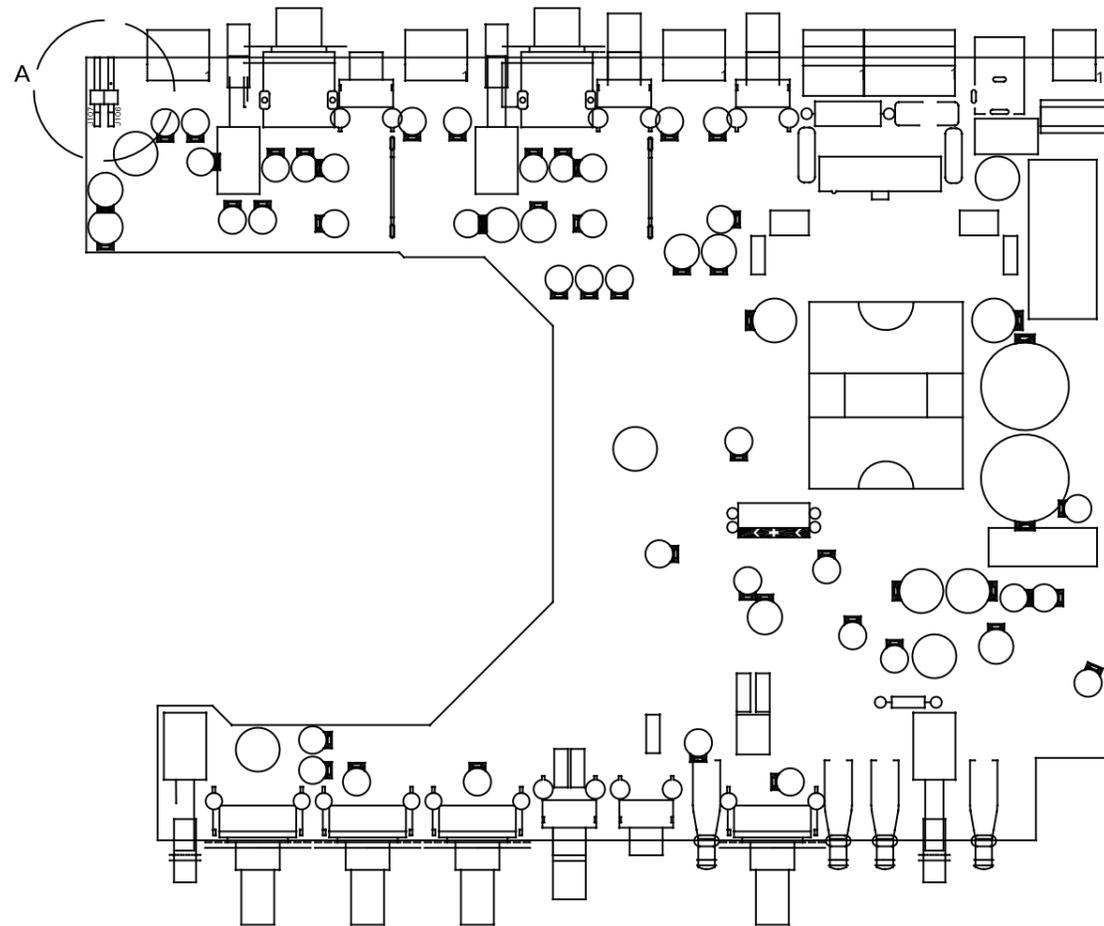
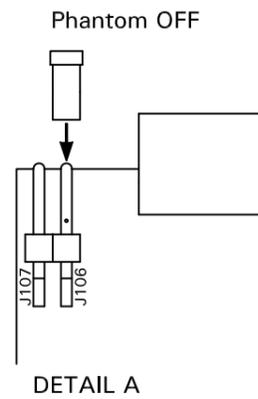
1. Connect the eHMA60 100V OUTPUT to the input of the AUDEO106. Make sure that the sound quality on the cabinet is correct, free from noise and distortion and with flat frequency response.
2. Connect the AUDEO106 to the eHMA60 4 OHM OUTPUT. Make sure that the sound quality on the cabinet is correct, free from noise and distortion and with flat frequency response.
3. Verify that the TONE CONTROL works properly by moving the BASS and TREBLE potentiometers to adjust the SOUND RESPONSE. Finally, adjust the TONE CONTROLS to the CENTER.
4. Plug the special short-circuited EUROBLOCK into the MUTE input and verify that the music mutes. Unplug the EUROBLOCK and verify that the music returns smoothly.
5. Short the output terminals of the 4Ω OUTPUT while the music sounds in the loudspeaker. Verify that, once the short-circuit is removed, the output sounds properly.

QUALITY CONTROL

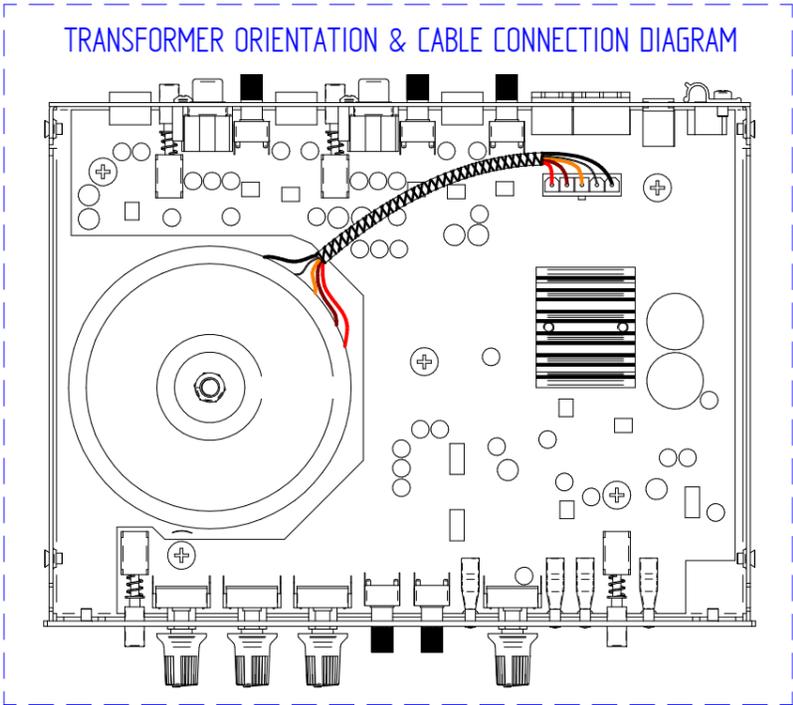
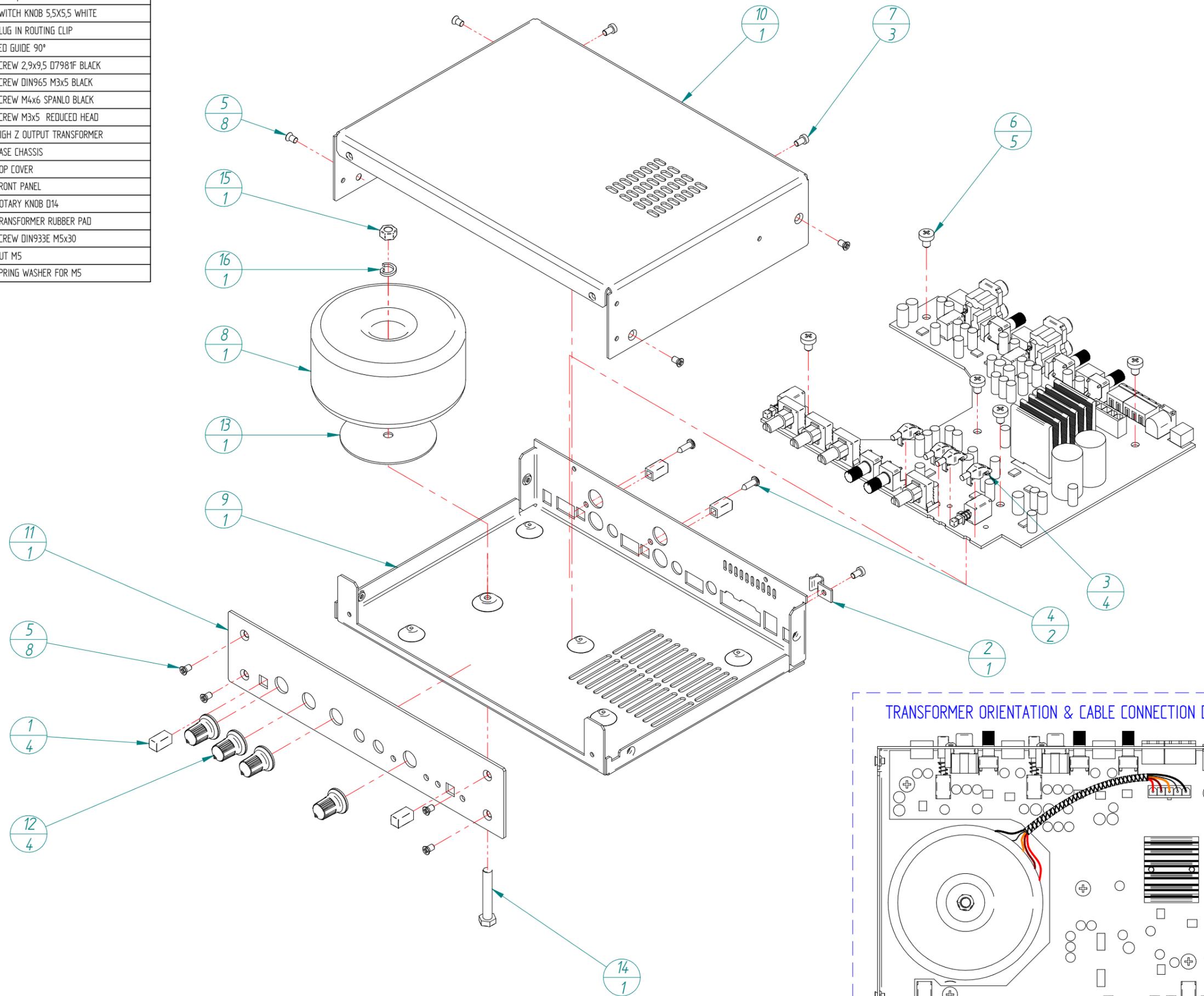
1. All mechanical parts should be visually revised, in order to detect scratches on the unit's painting and silk screen defects.
2. Verify that all buttons are well-centered and don't brush with the chassis.
3. Verify that all the adjustment potentiometers (Bass & Treble in the front panel and Gain in the rear panel) are well-centered with their respective chassis holes.
4. All screws should be on their place, correctly tight and unmarked.
5. Check out the unit's general presentation.

POWER (100V OUTPUT)		60W @ 166Ω 1% THD
POWER (LOW Z OUTPUT)		66W @ 4Ω 1% THD
Frequency response (HPF at 70Hz)		70Hz - 30kHz (-3dB)
THD+Noise @ 1kHz Full Power, SPEAKER OUTPUT, LINE		<0.08%
Channel Crosstalk @ 1KHz		>65dB
Input Sensitivity / Nominal impedance	INPUT 1 LINE	-15dBV to +15dBV / >10kΩ
	INPUT 2 LINE	-15dBV to +15dBV / >10kΩ
	INPUT 1 MIC	-20 to -50dBV / >1kΩ
	INPUT 2 MIC	-20 to -50dBV / >1kΩ
	INPUT 3 MIC	-20 to -50dBV / >1kΩ
CMRR	MICRO (BAL)	>65dB @ 1kHz
High Pass Filter		70Hz
Tone control	BASS	100Hz ±15dB
	TREBLE	10KHz ±15dB
Signal Noise Ratio (Gain at center, low Z output)	LINE	>85dB
	MIC (BAL)	>75dB
Talkover (MIC1)	TIME	2 Sec.
	DEPTH	-30dB
Phantom voltage		+24VDC / 10mA max.
MUTE INPUT		By dry contact (normally open)
DC Supply		24V
Mains (Using supplied DC adapter)		90-264VAC 47-63Hz
Power consumption (pink noise, 1/8 power)		33VA/17W
Power consumption (pink noise, 1/3 power)		62VA/36W
Power consumption in Standby mode (time 2 minutes)		<4W
Dimensions WxDxH (knobs excluded)		200x150x44mm
Weight		1.9Kg

JUMPER FACTORY ADJUST



N°	Qty.	Code	Description
1	4	FCBOTRE01030	SWITCH KNOB 5,5X5,5 WHITE
2	1	FCGRAPO30100	PLUG IN ROUTING CLIP
3	4	FCGUIAL15000	LED GUIDE 90°
4	2	FCT400290900	SCREW 2,9x9,5 D7981F BLACK
5	8	FCT803005500	SCREW DIN965 M3x5 BLACK
6	5	FCT804006000	SCREW M4x6 SPANLO BLACK
7	3	FCT850300500	SCREW M3x5 REDUCED HEAD
8	1	FCTFTHMA6000	HIGH Z OUTPUT TRANSFORMER
9	1	FP0351100000	BASE CHASSIS
10	1	FP0351200000	TOP COVER
11	1	FP0513000000	FRONT PANEL
12	4	FRBOT0049000	ROTARY KNOB D14
13	1	GENERIC	TRANSFORMER RUBBER PAD
14	1	GENERIC	SCREW DIN933E M5x30
15	1	GENERIC	NUT M5
16	1	GENERIC	SPRING WASHER FOR M5



N°	Qty.	Code	Description
1	4	FCARANY06000	WASHER M6 NYLON BLACK 12x6,4x1,5
2	2	FCBOL0010000	PLASTIC SLEEVE 60x80
3	1	FCCAJSTA520E	PACKING CARDBOARD BOX ST52
4	1	FCCAJSTA5220	INTERIOR CARDBOARD REINFORCEMENT
5	2	FCETI0951140	PRODUCT LABEL PACK (ONE FOR EACH UNIT)
6	1	FCFONTE24065	EXTERNAL P.S. MODULE 24V 65W
7	2	FCFUNMAN00000	USER MANUAL BAG
8	1	FCMANGEN00000	GENERIC USER MANUAL
9	4	FCPIE1125500	RUBBER FOOT
10	1	FCREG1006000	CONNECTING TERMINAL STRIPS 2C P=5,08
11	1	FCREG1007000	CONNECTING TERMINAL STRIPS 3C P=5,08
12	1	FCREG2006000	CONNECTING TERMINAL STRIPS 2C
13	3	FCREG2007000	CONNECTING TERMINAL STRIPS 3C
14	1	FCTARJG00000	WARRANTY CARD
15	1	GENERIC	AC POWER CORD (SUPPLIED w POWER SUPPLY)

