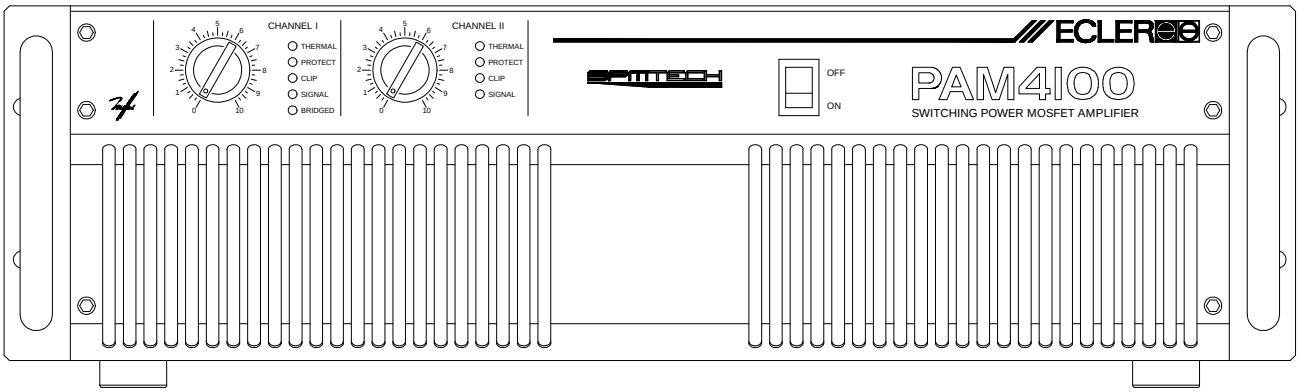
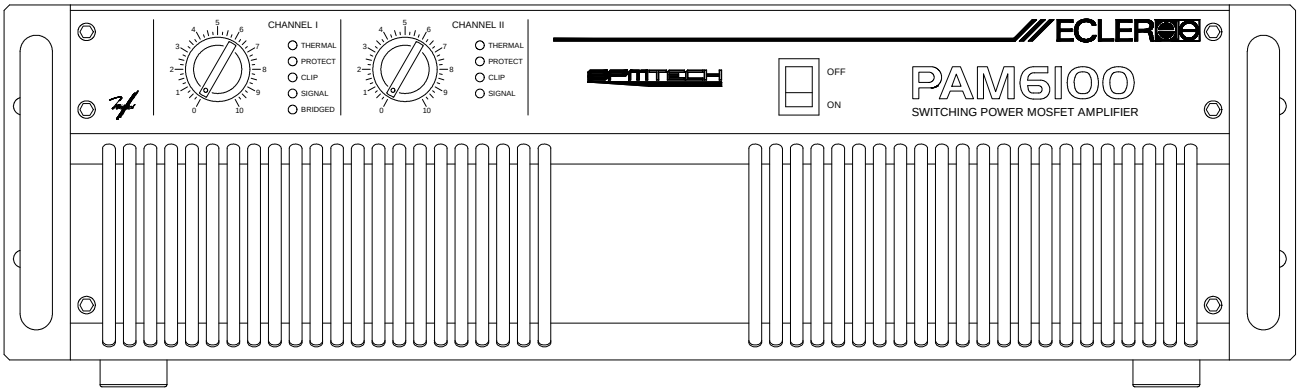
PAM4100
PAM6100

SERVICE MANUAL





ECLER

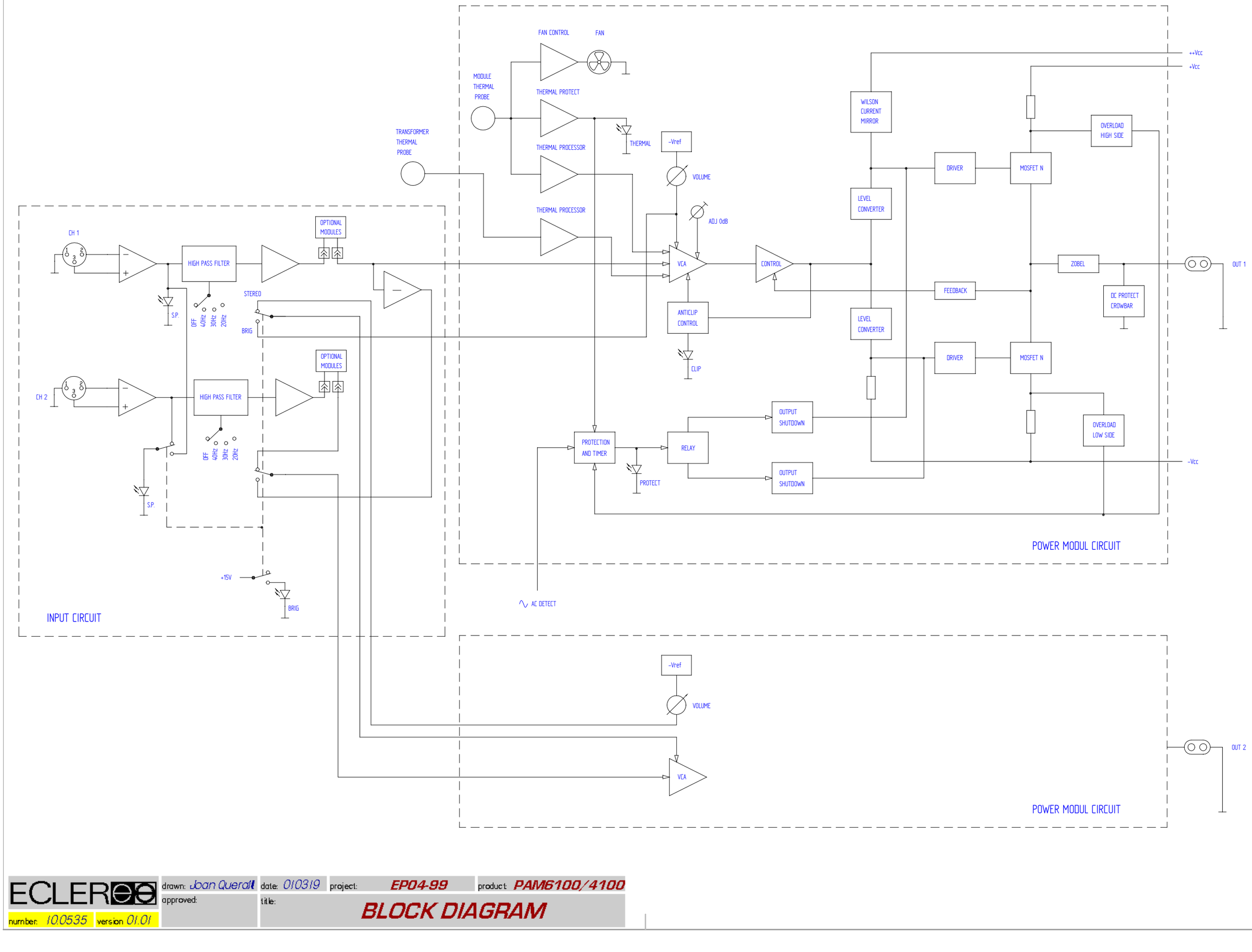
AUDIO CREATIVE POWER

SERVICE MANUAL PAM6100 / 4100

INDEX

PAM6100

PAM4100



ECLEREE

drawn: Joan Queralt | date: 010319 | project: EP04-99 | product: PAM6100/4100

approved:

number: 10.0535 | version 01.01

title: **BLOCK DIAGRAM**

EPO4-99 Power Module. Functioning description.

Due to the high power level required on the output load, the amplifier final stage's structure differs from the design used untill now. This is due to the breakdown voltage limit on P-channel MosFET's, wich is 200V. This final stage is formed by several shunted MosFET's, where those of the positive branch are common-drain configured, and the negative branch are mounted in common-source configuration.

The system's controlling device is a NE5534-type operational amplifier, wich is internally compensated in order to obtain gain levels equal or higher than three. The amplifier's feedback is given by a resistor and a capacitor associated to the operational amplifier's non inverting input.

Transistors BF587 and BF588 are common-base configured, forming a current supply structure. This specific transistor type is used because of the higher Vce voltage level required by this design. They perform simultaneously two functions: they polarize the MosFET's gate-source junctions, keeping them on the conducting edge, and they tranfer the OpAmp's output voltage variations referred to signal ground.

The signal variations normally reflected by Q107 and referred to the positive power supply, are now needed to be floating variations, and referred to the outputs. This function is done by Q109-110 (BF588), wich are mounted formig a Wilson-type mirror current supply. This mirror current supply transfers all of the current variations detected while descending through Q109's collector, to similar variations on Q110's collector also downward current. Resistors R167 and R174 are used to balance the current mirror, in order to avoid the use of transistors with forcibly the same beta value. C138 and C141 suppress their resistance when high frequency signal is processed. Diodes D126 and D127 avoid the transistors to get saturated, and R171 eliminates the loads on BF588's bases (Baker Circuit).

The system requires about 12Vdc additional voltage upon the usual Vcc level, this allows a correct saturation and a symetric clipping at the higher MosFET's.

The correct polarization current value is adjusted by a 4K7 potentiometer connected to the BF transistor's emitter. This adds an additional current to the current source output on th BF transistor's loading resistors.

In order to maintain the appropiate stand-by current level against varying temperature conditions, BD437-type transistors are used. As they have a particular temperature-depending base-emitter voltage curve, this voltage is used to keep a correct voltage reference for the current supply. As the temperature rises, the reference voltage level decreases, the gate-source voltage also decreases and, finally, the bias current also decreases.

Transistors Q111 and Q112, and their corresponding twins at the lower branch, form a current-buffering circuit wich allows a fast charge and discharge of the power MosFET's gates.

The Zobel circuit, a resistance-capacitance-inductance formed network associated to the amplifier's ouput, tries to keep the amplifier's output load impedance constant no matter wich load value is conected to the output, or wich frequency is processed, in order to avoid phase shifts on the feedback signal.

To avoid the presence of DC voltage on the output, a diac-triac based system is used, wich shorts the output to signal ground in case the DC level reaches the diac's triggering value. To avoid this to happen when processing correct signal (sine waveform, music...), the diac obtains its reference level from a filtering network formed by a 100K resistor and a 1mF capacitor.

The protections circuitry overhauls the MosFET's power consumption. Basically, this circuitry consists of two important sections: MosFET's Id current monitoring, and MosFET's Vds value detection.

When the MosFET's Id level rises above a certain level, transistor Q119 (controlling transistor) conducts and decreases the BF transistor's loading resistance, thus reducing also their gate-source voltage and, finally, lowering the Id current value. This system is helped by a delayed performance, due to the associated circuitry to Q145 and C174. This capacitor starts to charge when a current level above the allowed value is detected, and the protection starts. The greater is the capacitor's charge level, the higher is also the voltage applied to Q119 controlling transistor's base, increasing its conduction and, consequently, reducing the gate-source voltage and thus the Id current value. This system uses a feedback network. The delay used is necessary to avoid clipping the processed signal's dynamic range, wich should result in the typical clipping noise. In the negative branch, the protection circuitry is associated to control transistor Q120.

In case the overcurrent is not ocassional, and persists, after a period of time between 4 and 10 seconds (determined by R142 and C124), the system switches back to Stand by mode, due to a system-reset. This is done by an optocoupler (IC113) associated to the negative branch protection circuitry. When protections get activated, IC113 gradually charges C124 untill a 40106-type Schmidt trigger gate switches over . If the problem persists, this cycle is repeated.

STANDBY CIRCUITRY.

This circuit maintains the Output shutdown relay closed for about 10 seconds, and thus annulates any current through the MosFET's during this period, just untill the whole system's power supply voltage reaches its stable level. By this system, we avoid to hear through the loudspeakers any possible annoying noise proceeding from the system's start-up.

This delay time is achieved by using a RC cell, where R135 = 287K and C119 = 47mF/50V. As this cell charges, its voltage increases untill reaching the 40106 type Schmidt trigger (IC108) switching value; at this point, the relay opens and the amplifier starts to function normally.

The discharge or reset of capacitor C119 = 47mF can be done by cutting off the power supply, or by triggering the Thermal or other protections. During a short period of time, BC817-type transistor Q102 acts like a switch, shunting two 750 ohm resistors to C119.

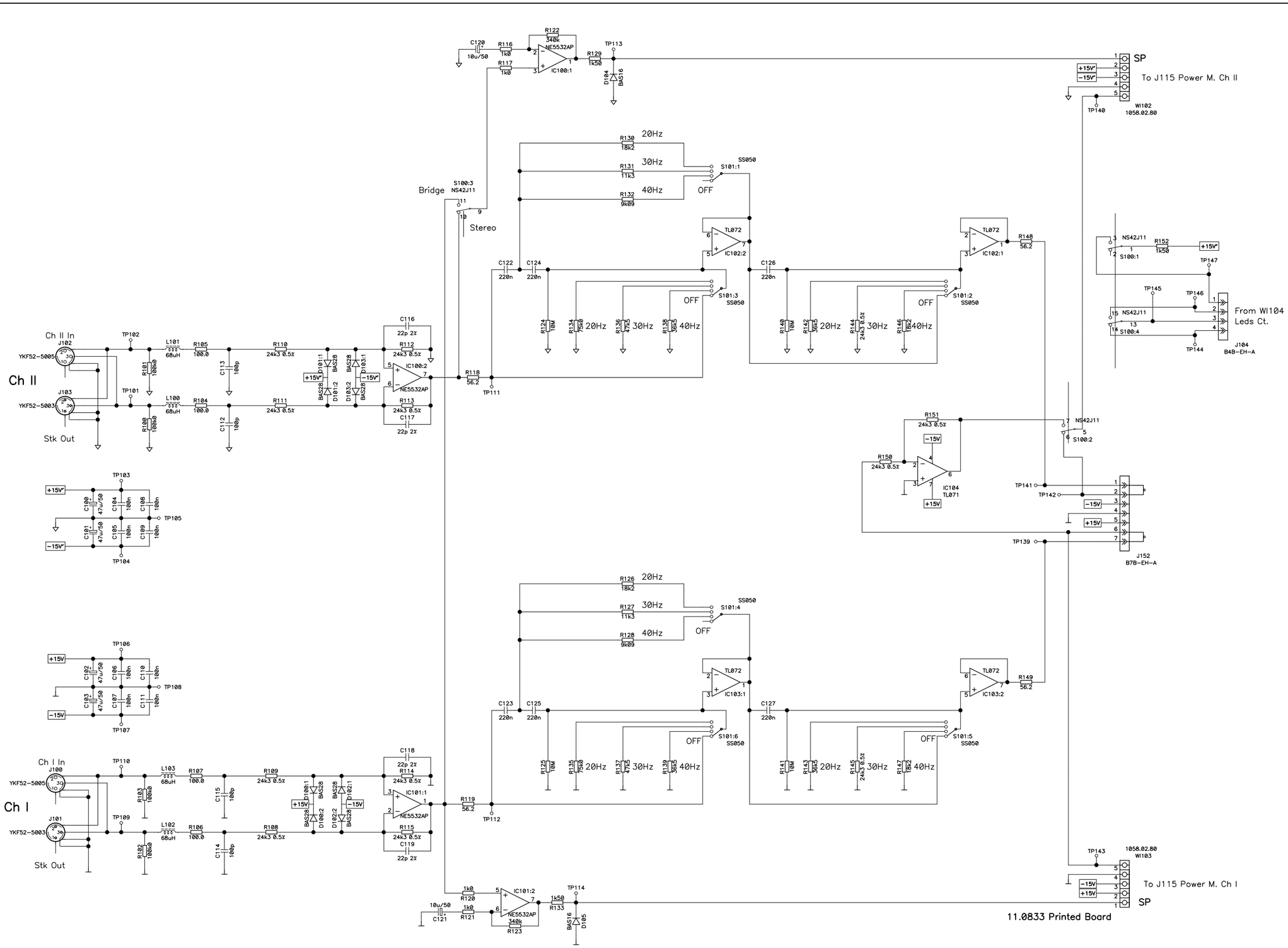
Moreover, the amplifier includes some other additional features, like:
· Volume control by a VCA system.
· An ANTICLIP system.
· A Temperature control system.

The ANTICLIP system. When the amplifier reaches clipping levels, the operational amplifier looses control on the system's performance and at its output some ±Vcc voltage peaking pulses may appear, proceeding from its power supply. This peaking pulses are used to be rectified and sent to an optocoupler (IC111), wich varies the system's VCA control voltage as a function of those pulse's amplitude, creating a negative feedback wich should pull back the system into stable functioning area.

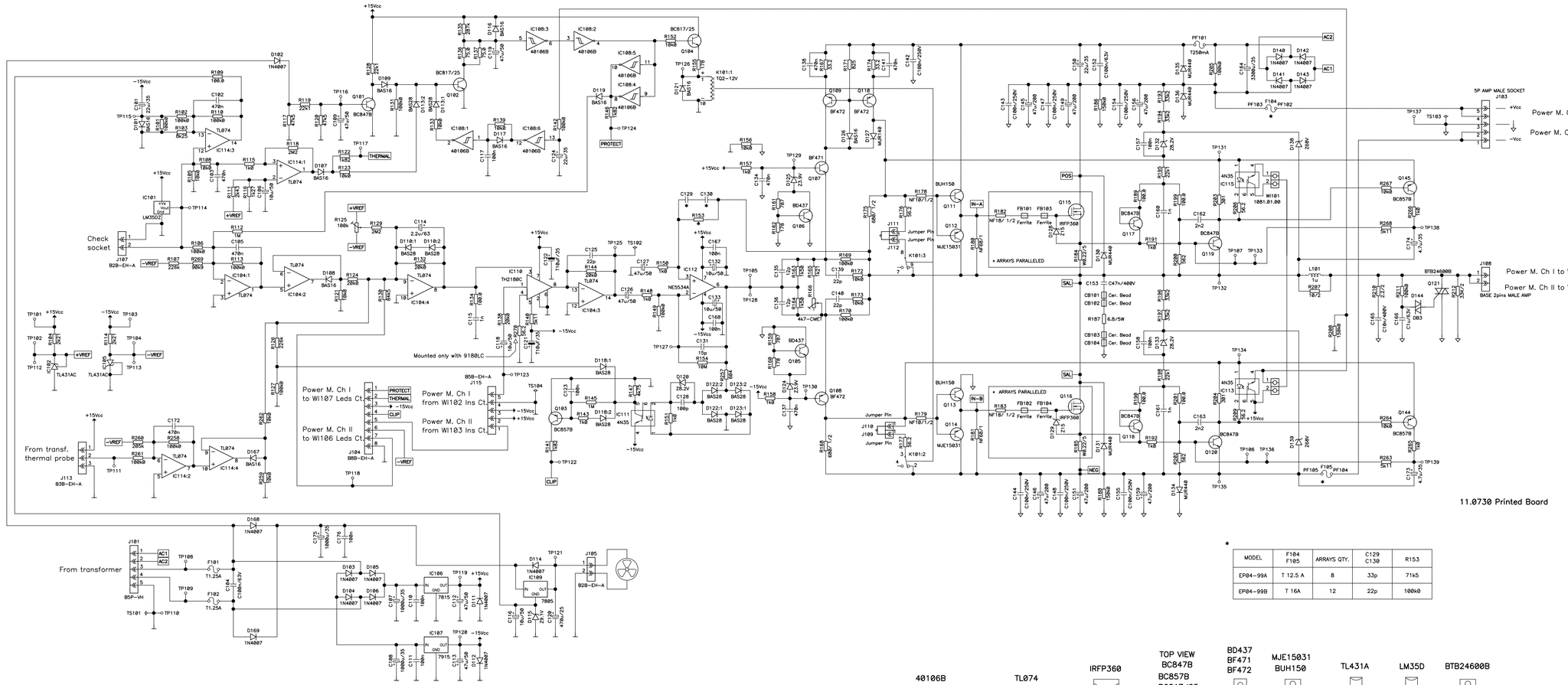
The Temperature control system has three main functions:
· Controlling the cooling fan speed, as it is a function of the measured temperature. The fan's operation voltage range is »7 to 4 Volt.
· Suspending the amplifier's functioning when the temperature exceeds »92ºC
· Reducing the amount of power output, depending on the module's temperature (as it rises above 85ºC) and on the main power supply's transformer (above 120ºC).

The temperature control system consists on two LM35D-type IC's, wich act like a thermal probe; one is placed on the amplifier's heat sink, and the other is placed into the main power supply transformer's core. Moreover, three amplifiers, a comparator for the thermal probe and a 7805-type IC to feed the cooling fan are used.

The first amplifier (1/4 IC114) acts on the cooling fan speed control. The second amplifier (1/4 IC114) modifies the VCA gain control, in order to reduce the system's gain if the temperature rises above 85ºC. The third amplifier (1/4 IC114) modifies the VCA gain control, in order to reduce the system's gain if the temperature rises above 120ºC. The comparator (1/4 IC114) is responsible for the output shutdown relay performance, in order to close it as the temperature reaches 92ºC, and thus cutting of the amplifier's MosFETs bias current. As this happens, the signal output of the whole unit is cutted off.



ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	drawn by: M. Amoros	date: 001004	approved: Angel Sanuy	
	project n: EP04-99	title: Inputs Ct.		
	product n: PAM6100/4100			
number: 10.0530	version: 01.04	page: 1 of 1		



MODEL	F104 F105	ARRAYS QTY.	C129 C130	R153
EP04-99A	T 12.5 A	8	33p	71k5
EP04-99B	T 16A	12	22p	100k0

ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	drawn by: M. Amoros	date: 020404	approved: Angel Sanuy
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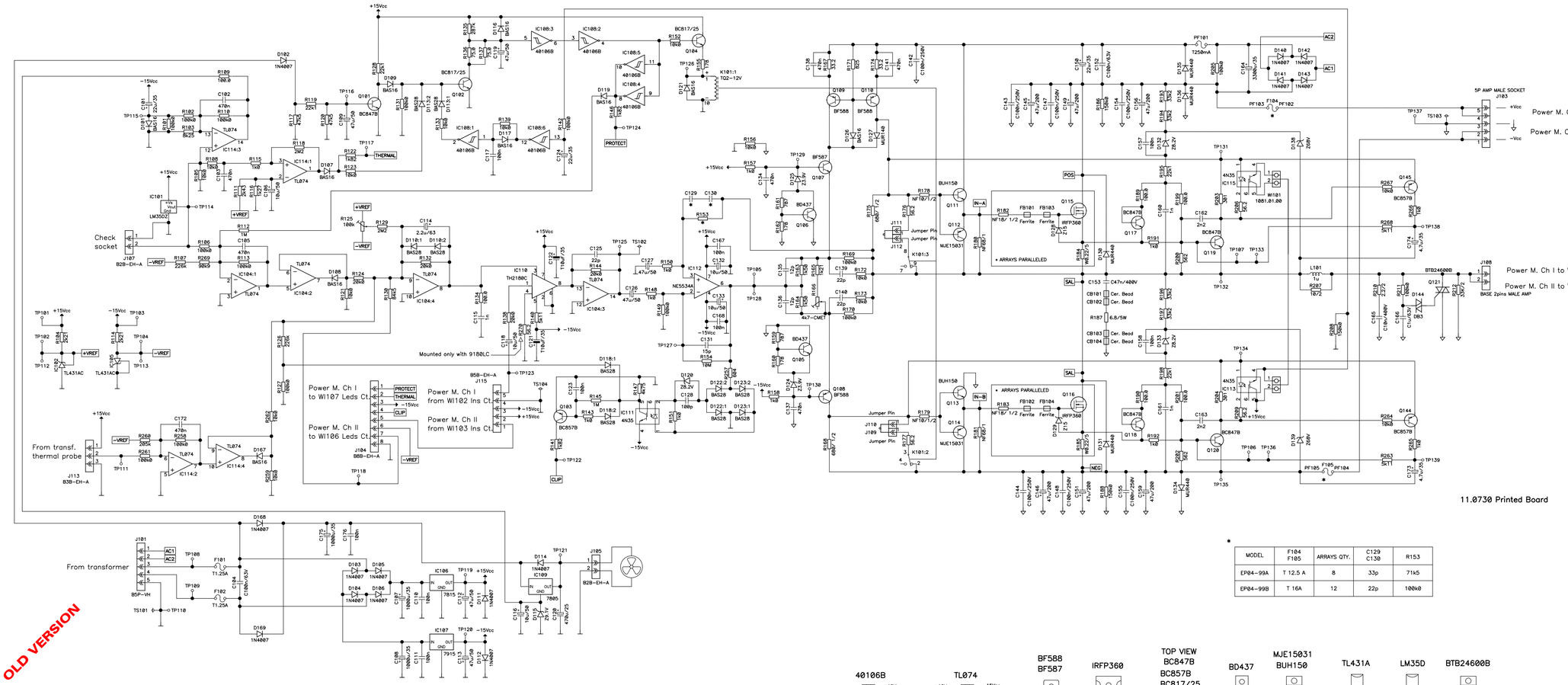
	product n: PAM6100/4100		
number: 10.0476	version: 01.07	page: 1 of 2	



MODEL	F104 F105	ARRAYS QTY.	C129 C130	R153
EP04-99A	T 12.5 A	8	33p	71k5
EP04-99B	T 16A	12	22p	100k0

ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	drawn by: M. Amoros	date: 991130	approved: Angel Sanuy
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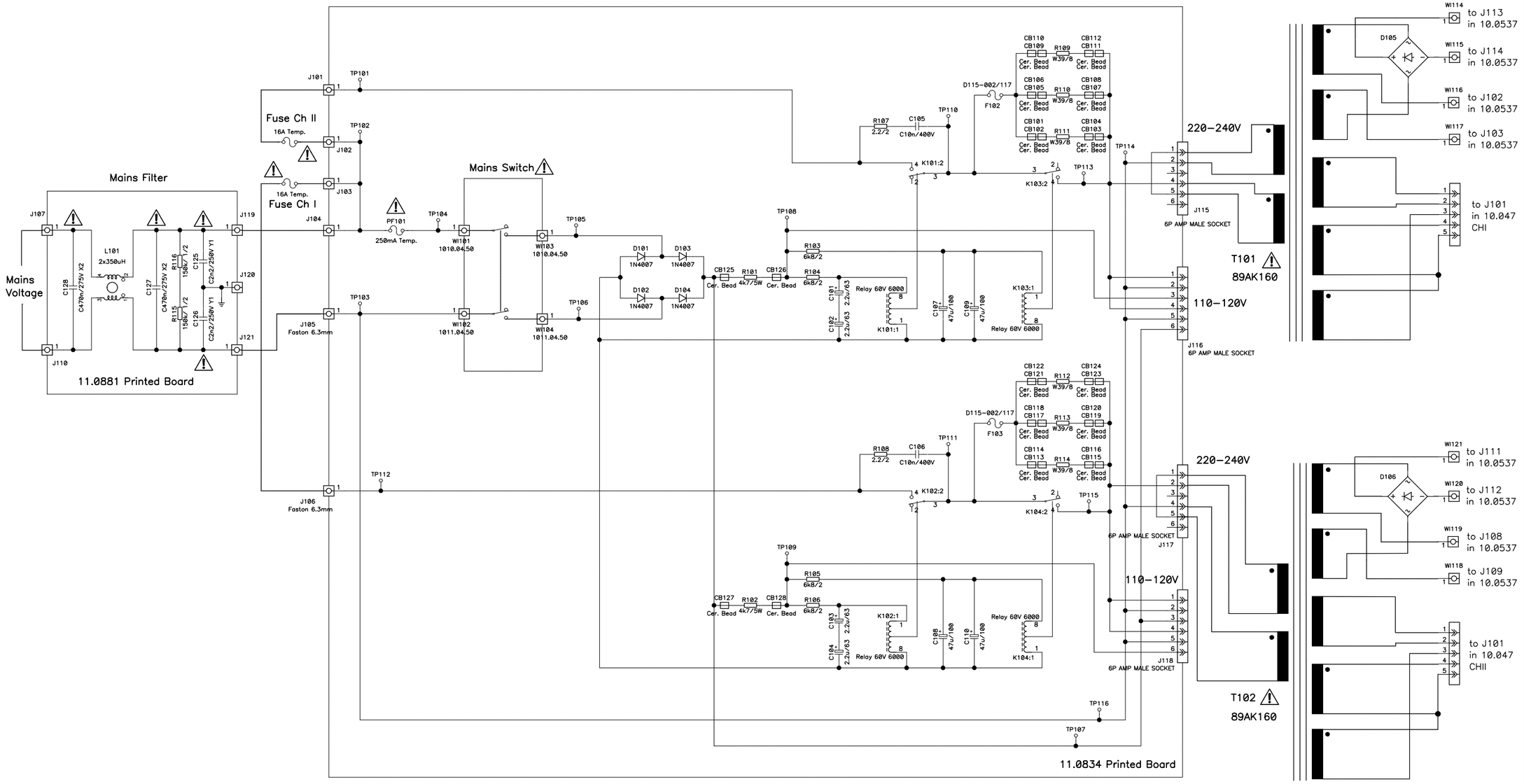
	product n: PAM6100/4100		
number: 10.0476	version: 01.06	page: 1 of 2	



ECLER LABORATORIO DE ELECTRO–ACUSTICA S.A.	drawn by: Jordi Folch	date: 010904	approved: Angel Sanuy	
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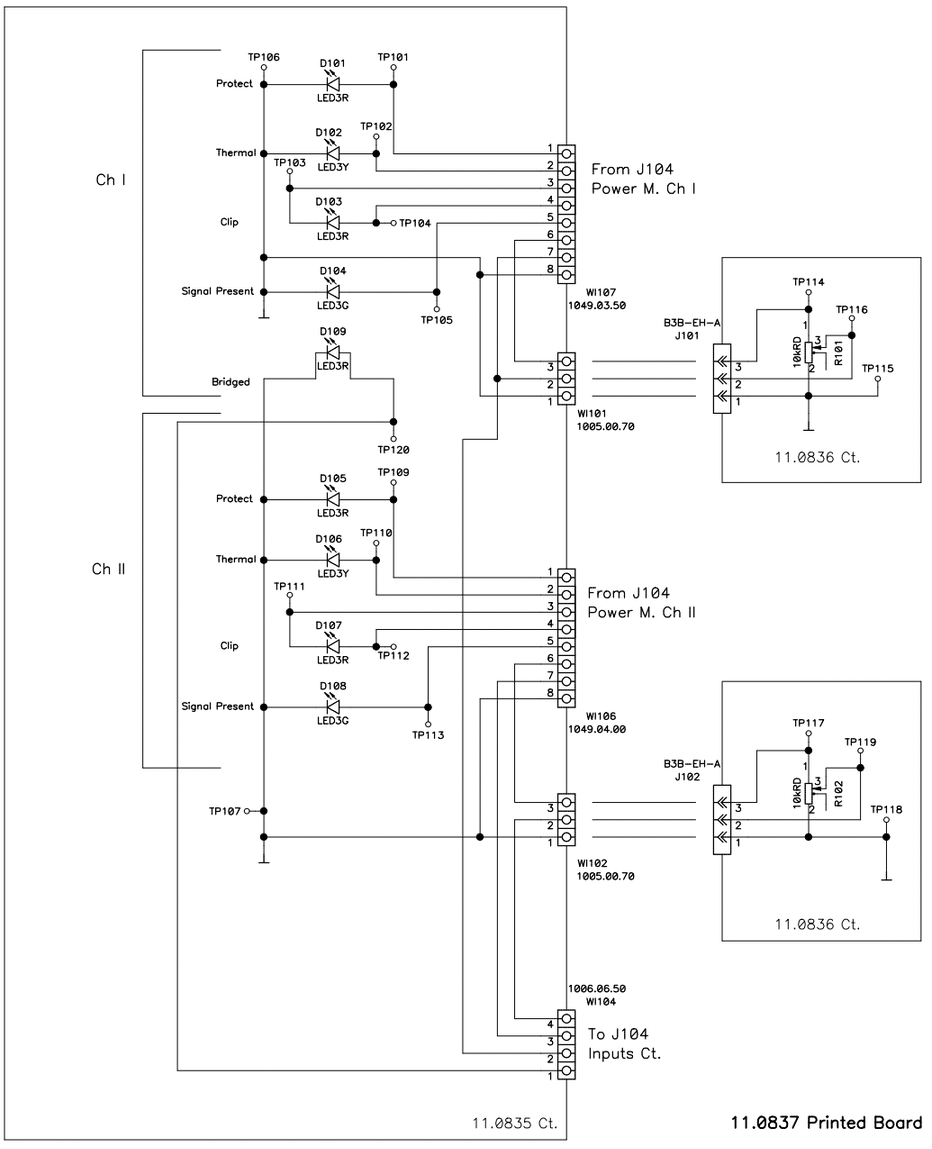
number: 10.0576	version: 01.00	page: 1 of 1		



11.0837 Printed Board

ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	drawn by: M. Amoros	date: 001016	approved: Angel Sanuy	
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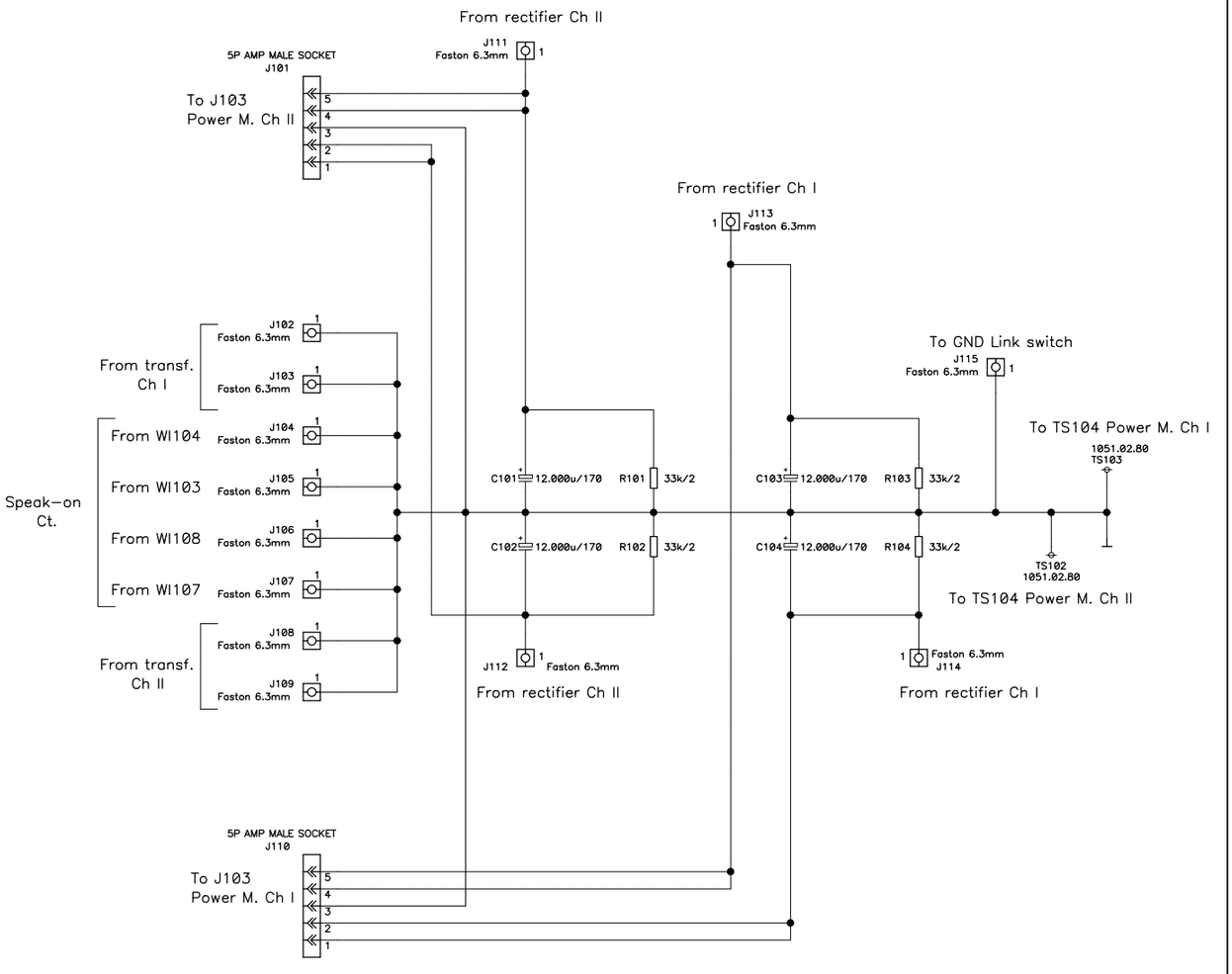
	product n: PAM6100/4100			
number: 10.0532	version: 01.02	page: 1 of 1		



11.0842 Printed Board

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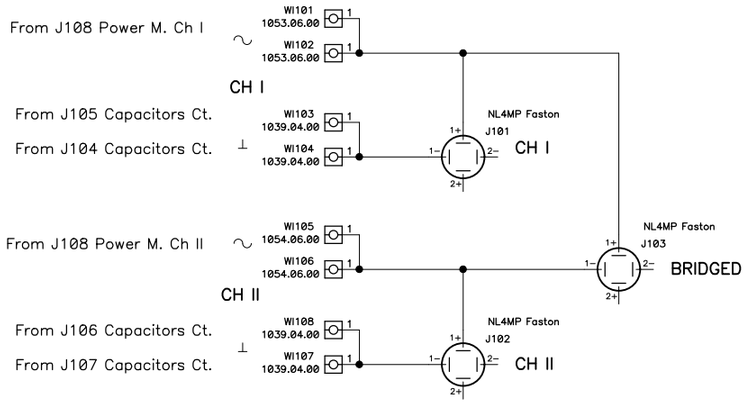
	product n: PAM6100/4100			
number: 10.0537	version: 01.03	page: 1 of 1		



11.0839 Printed Board

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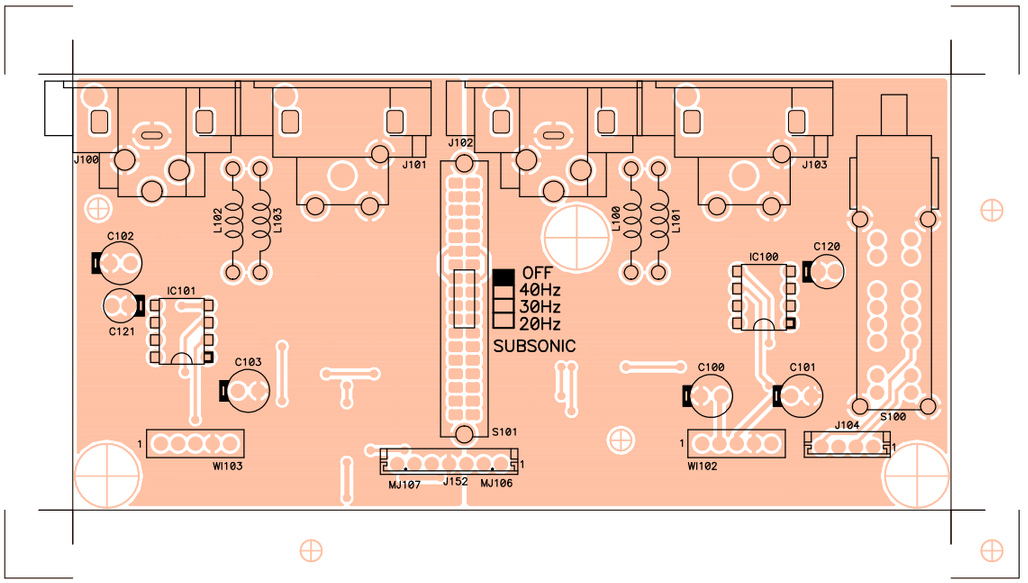
number: 10.0533	version: 01.01	page: 1 of 1		



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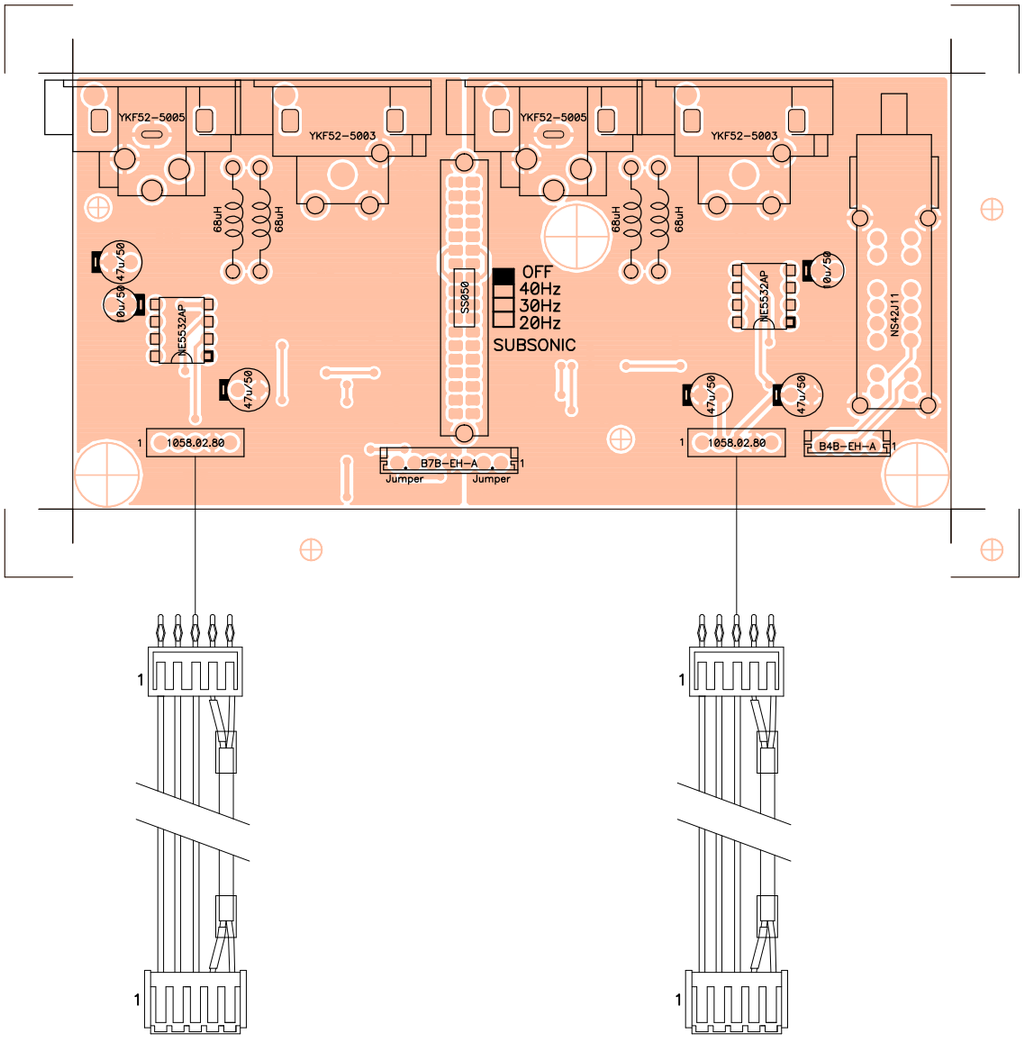
drawn by: M. Amoros	date: 001004	product n: PAM6100/4100	
		approved: Angel Sanuy	



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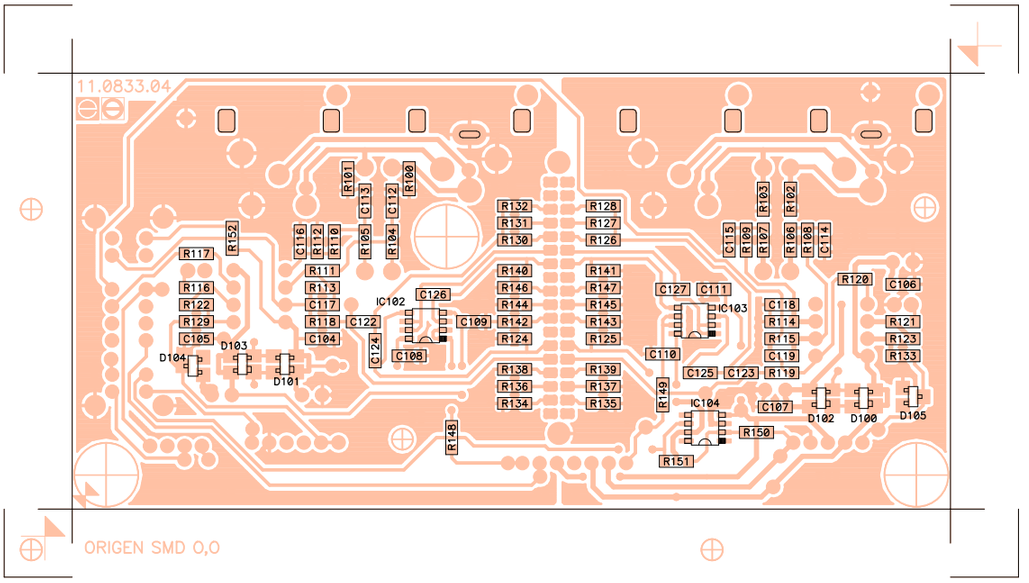
drawn by: M. Amoros	date: 001004	product n: PAM6100/4100		
		approved: Angel Sanuy		



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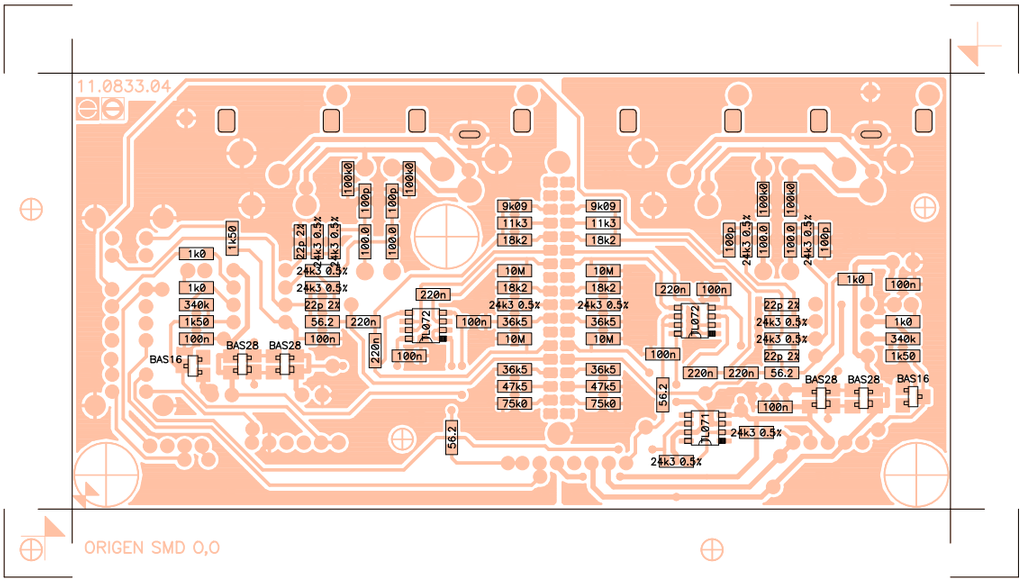
		approved: Angel Sanuy		



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number: 33.0548	version: 01.04	project n: EP04-99	title: Inputs Ct.
drawn by: M. Amoros	date: 001004	product n: PAM6100/4100	
		approved: Angel Sanuy	

PARTS LIST: PRINTED CIRCUIT 11.0833.04.00

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1	FCCE250470	47u/50	C100
1	FCCE250470	47u/50	C101
1	FCCE250470	47u/50	C102
1	FCCE250470	47u/50	C103
1	FCXCN41000	100n	C104
1	FCXCN41000	100n	C105
1	FCXCN41000	100n	C106
1	FCXCN41000	100n	C107
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1	FCXCN41000	100n	C110
1	FCXCN41000	100n	C111
1	FCXCN21000	100p	C112
1	FCXCN21000	100p	C113
1	FCXCN21000	100p	C114
1	FCXCN21000	100p	C115
1	FCXCN12201	22p 2%	C116
1	FCXCN12201	22p 2%	C117
1	FCXCN12201	22p 2%	C118
1	FCXCN12201	22p 2%	C119
1	FCCE250100	10u/50	C120
1	FCCE250100	10u/50	C121
1	FCXCN42200	220n	C122
1	FCXCN42200	220n	C123
1	FCXCN42200	220n	C124
1	FCXCN42200	220n	C125
1	FCXCN42200	220n	C126
1	FCXCN42200	220n	C127
1	FCCIPAM833	11.0833 Printed Board	CI100
1	FCXDDBAS28	BAS28	D100
1	FCXDDBAS28	BAS28	D101
1	FCXDDBAS28	BAS28	D102
1	FCXDDBAS28	BAS28	D103
1	FCXDDBAS16	BAS16	D104
1	FCXDDBAS16	BAS16	D105
1	FCIC553200	NE5532AP	IC100
1	FCIC553200	NE5532AP	IC101
1	FCIC072010	TL072	IC102
1	FCIC072010	TL072	IC103
1	FCIC071010	TL071	IC104
1	FCBASX0900	YKF52-5005	J100
1	FCBASX1000	YKF52-5003	J101
1	FCBASX0900	YKF52-5005	J102
1	FCBASX1000	YKF52-5003	J103
1	FCCTM00040	B4B-EH-A	J104
1	FCCTM00070	B7B-EH-A	J152
1	FCCHK00680	68uH	L100
1	FCCHK00680	68uH	L101
1	FCCHK00680	68uH	L102
1	FCCHK00680	68uH	L103
1	FCMJ000100	Jumper	MJ106
1	FCMJ000100	Jumper	MJ107
1	FCXR151000	100k0	R100
1	FCXR151000	100k0	R101

PARTS LIST: PRINTED CIRCUIT 11.0833.04.00

Q	Code	Description	Reference
1	FCXR151000	100k0	R102
1	FCXR151000	100k0	R103
1	FCXR121000	100.0	R104
1	FCXR121000	100.0	R105
1	FCXR121000	100.0	R106
1	FCXR121000	100.0	R107
1	FCXR242430	24k3 0.5%	R108
1	FCXR242430	24k3 0.5%	R109
1	FCXR242430	24k3 0.5%	R110
1	FCXR242430	24k3 0.5%	R111
1	FCXR242430	24k3 0.5%	R112
1	FCXR242430	24k3 0.5%	R113
1	FCXR242430	24k3 0.5%	R114
1	FCXR242430	24k3 0.5%	R115
1	FCXR131000	1k0	R116
1	FCXR131000	1k0	R117
1	FCXR115620	56.2	R118
1	FCXR115620	56.2	R119
1	FCXR131000	1k0	R120
1	FCXR131000	1k0	R121
1	FCXR153400	340k	R122
1	FCXR153400	340k	R123
1	FCXR071000	10M	R124
1	FCXR071000	10M	R125
1	FCXR141820	18k2	R126
1	FCXR141130	11k3	R127
1	FCXR139090	9k09	R128
1	FCXR131500	1k50	R129
1	FCXR141820	18k2	R130
1	FCXR141130	11k3	R131
1	FCXR139090	9k09	R132
1	FCXR131500	1k50	R133
1	FCXR147500	75k0	R134
1	FCXR147500	75k0	R135
1	FCXR144750	47k5	R136
1	FCXR144750	47k5	R137
1	FCXR143650	36k5	R138
1	FCXR143650	36k5	R139
1	FCXR071000	10M	R140
1	FCXR071000	10M	R141
1	FCXR143650	36k5	R142
1	FCXR143650	36k5	R143
1	FCXR242430	24k3 0.5%	R144
1	FCXR242430	24k3 0.5%	R145
1	FCXR141820	18k2	R146
1	FCXR141820	18k2	R147
1	FCXR115620	56.2	R148
1	FCXR115620	56.2	R149
1	FCXR242430	24k3 0.5%	R150
1	FCXR242430	24k3 0.5%	R151
1	FCXR131500	1k50	R152
1	FCINTAP080	NS42J11	S100
1	FCINTD7500	SS050	S101
1	FC6K058460	1058.04.60	WI102

PARTS LIST: PRINTED CIRCUIT 11.0833.04.00

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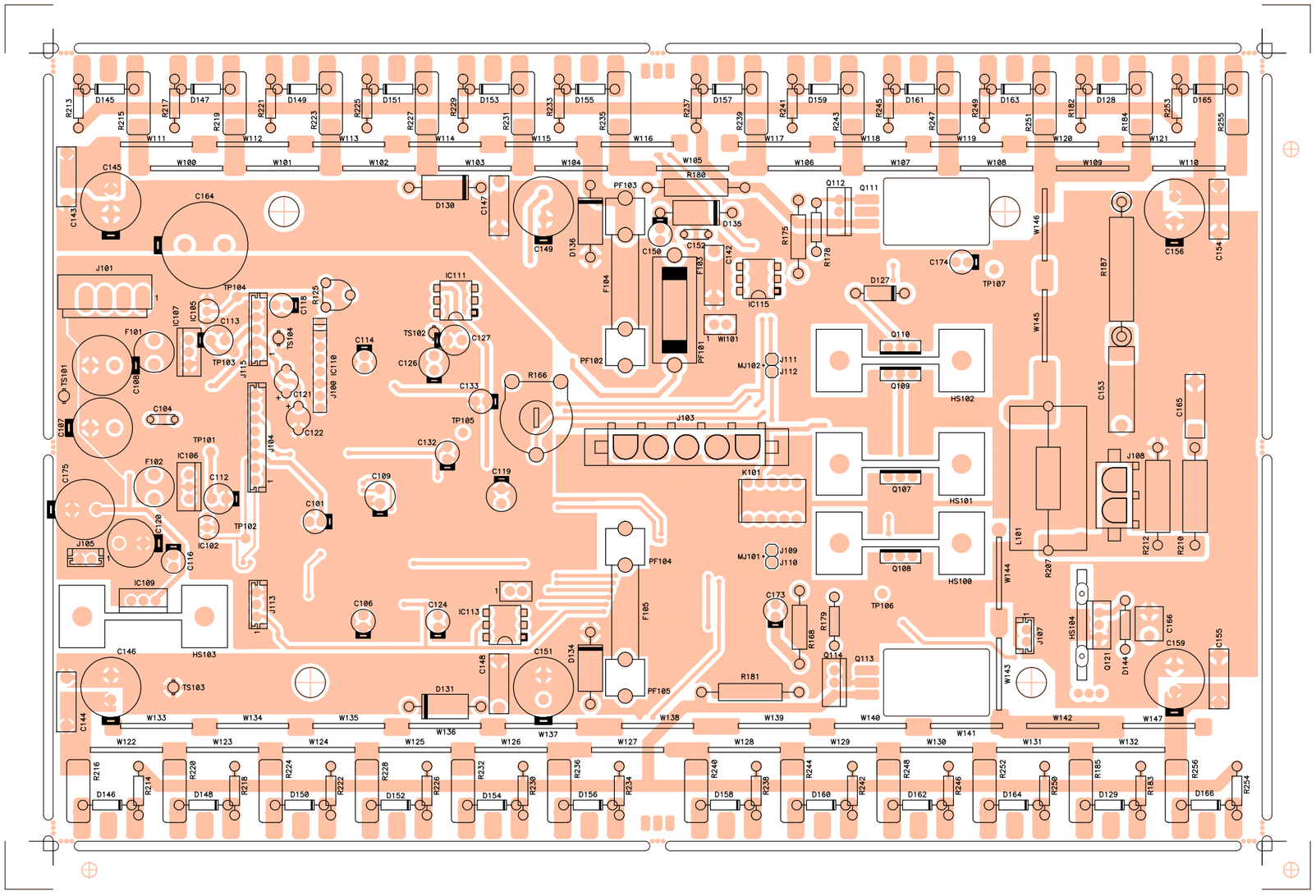
1	FC6K058460	1058.04.60	WI103



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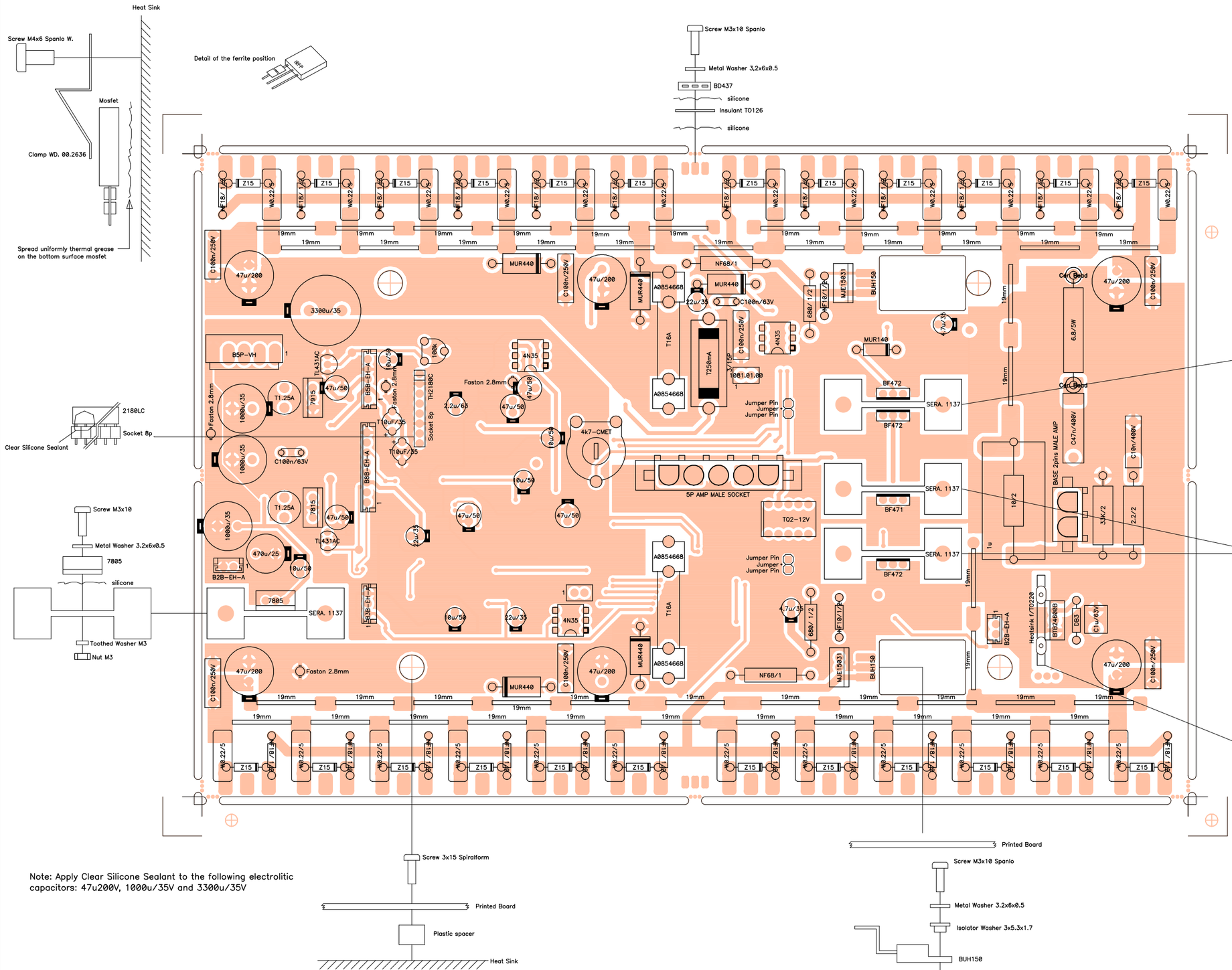
drawn by: M. Amoros	date: 000927	product n: PAM6100 approved: Angel Sanuy		



Note: Apply Clear Silicone Sealant to the following electrolitic capacitors: 47u200V, 1000u/35V and 3300u/35V

ECLER ee LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0730-07.01 schema no: 10.0476-01.07 insertion file no:	side: Component view: Value	
number: 33.0542	version: 01.09	project n: EP04-99B	title: Power Circuit
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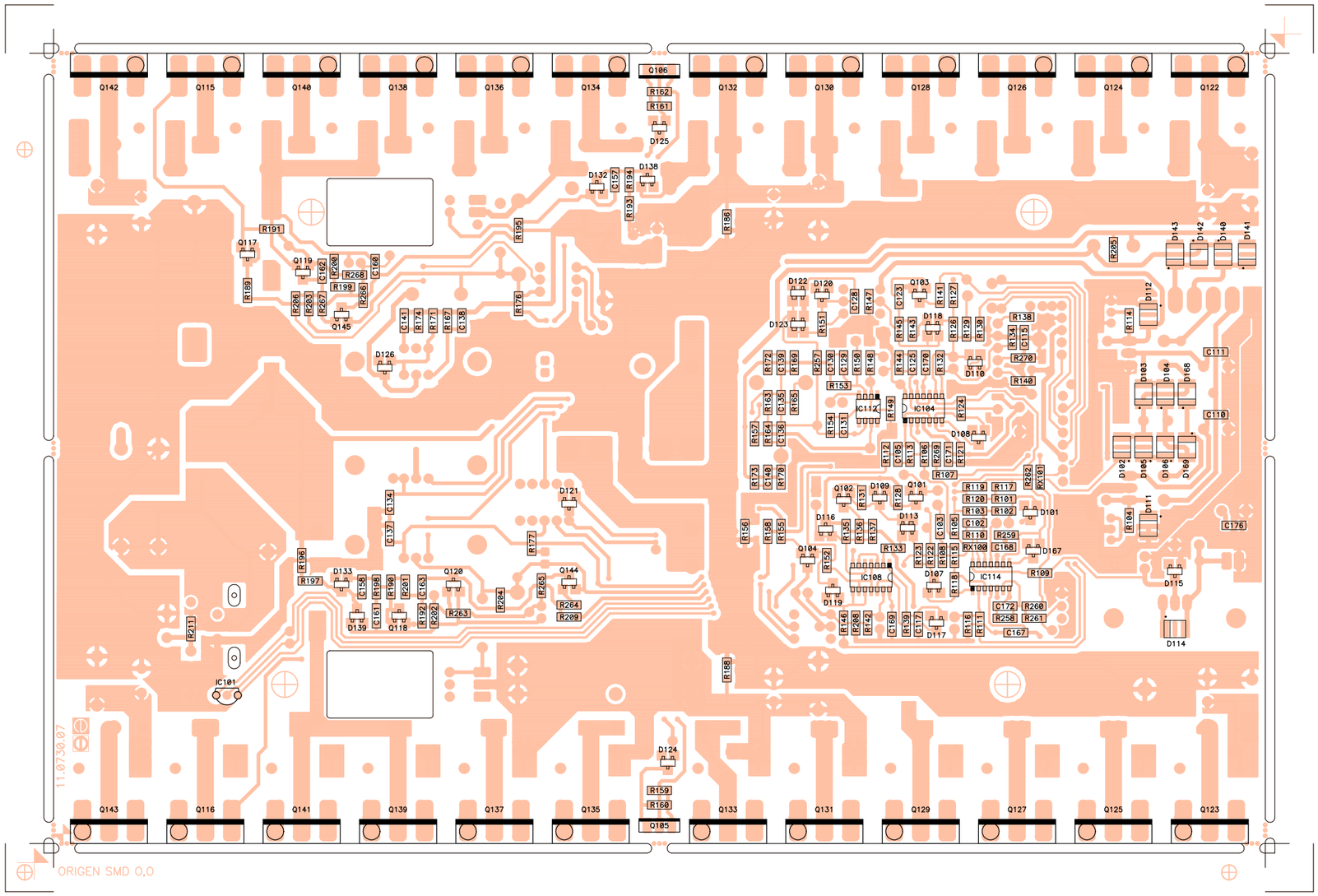
		approved: Angel Sanuy	



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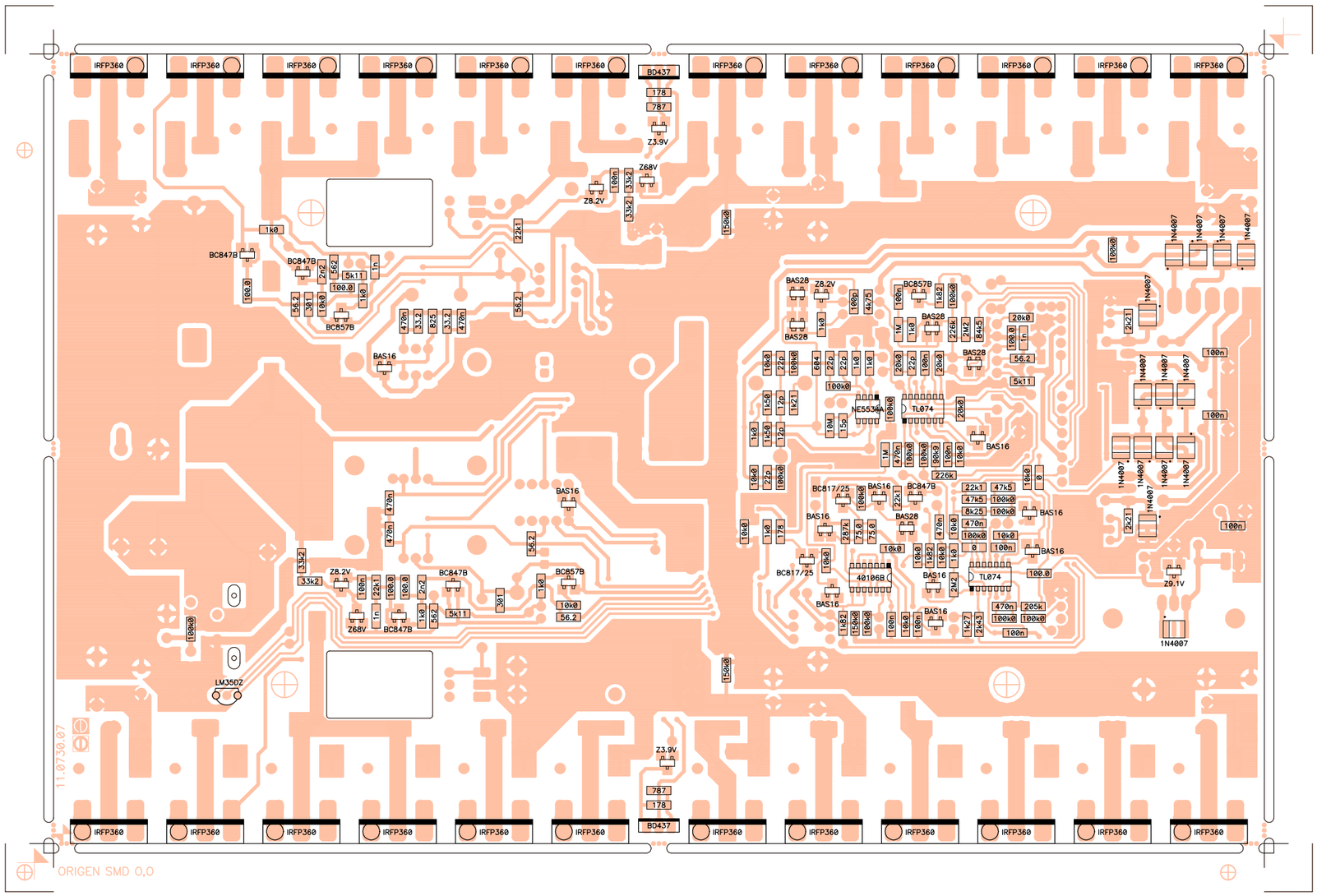
		approved: Angel Sanuy	



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number: 33.0544	version: 01.08	project n: EP04–99B	title: Power Circuit
drawn by: M. Amoros	date: 000927	product n: PAM6100 approved: Angel Sanuy	

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

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1	FCXCN44700	470n	C103
1	FCCDK11000	C100n/63V	C104
1	FCXCN44700	470n	C105
1	FCCE250100	10u/50	C106
1	FCCE211000	1000u/35	C107
1	FCCE211000	1000u/35	C108
1	FCCE250470	47u/50	C109
1	FCXCN41000	100n	C110
1	FCXCN41000	100n	C111
1	FCCE250470	47u/50	C112
1	FCCE250470	47u/50	C113
1	FCCE300022	2.2u/63	C114
1	FCXCN40010	1n	C115
1	FCCE250100	10u/50	C116
1	FCXCN41000	100n	C117
1	FCCE250100	10u/50	C118
1	FCCE250470	47u/50	C119
1	FCCE154700	470u/25	C120
1	FCCG001000	T10uF/35	C121
1	FCCG001000	T10uF/35	C122
1	FCXCN41000	100n	C123
1	FCCE200220	22u/35	C124
1	FCXCN12200	22p	C125
1	FCCE250470	47u/50	C126
1	FCCE250470	47u/50	C127
1	FCXCN21000	100p	C128
1	FCXCN12200	22p	C129
1	FCXCN12200	22p	C130
1	FCXCN11500	15p	C131
1	FCCE250100	10u/50	C132
1	FCCE250100	10u/50	C133
1	FCXCN44700	470n	C134
1	FCXCN11200	12p	C135
1	FCXCN11200	12p	C136
1	FCXCN44700	470n	C137
1	FCXCN44700	470n	C138
1	FCXCN12200	22p	C139
1	FCXCN12200	22p	C140
1	FCXCN44700	470n	C141
1	FCCDN11000	C100n/250V	C142
1	FCCDN11000	C100n/250V	C143
1	FCCDN11000	C100n/250V	C144
1	FCCE350047	47u/200	C145
1	FCCE350047	47u/200	C146
1	FCCDN11000	C100n/250V	C147
1	FCCDN11000	C100n/250V	C148
1	FCCE350047	47u/200	C149
1	FCCE200220	22u/35	C150
1	FCCE350047	47u/200	C151
1	FCCDK11000	C100n/63V	C152
1	FCCDH71047	C47n/400V	C153
1	FCCDN11000	C100n/250V	C154
1	FCCDN11000	C100n/250V	C155
1	FCCE350047	47u/200	C156

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Q	Code	Description	Reference
1	FCXCN41000	100n	C157
1	FCXCN41000	100n	C158
1	FCCE350047	47u/200	C159
1	FCXCN40010	1n	C160
1	FCXCN40010	1n	C161
1	FCXCN40022	2n2	C162
1	FCXCN40022	2n2	C163
1	FCCE213300	3300u/35	C164
1	FCCDH71011	C10n/400V	C165
1	FCCDK20010	C1u/63V	C166
1	FCXCN41000	100n	C167
1	FCXCN41000	100n	C168
1	FCXCN41000	100n	C169
1	FCXCN41000	100n	C170
1	FCXCN41000	100n	C171
1	FCXCN44700	470n	C172
1	FCCE200047	4.7u/35	C173
1	FCCE200047	4.7u/35	C174
1	FCCE211000	1000u/35	C175
1	FCXCN41000	100n	C176
1	FCPERL2550	Cer. Bead	CB101
1	FCPERL2550	Cer. Bead	CB102
1	FCPERL2550	Cer. Bead	CB103
1	FCPERL2550	Cer. Bead	CB104
1	FCCIPAM730	11.0730 Printed Board	CI101
1	FCXDDBAS16	BAS16	D101
1	FCXDD40070	1N4007	D102
1	FCXDD40070	1N4007	D103
1	FCXDD40070	1N4007	D104
1	FCXDD40070	1N4007	D105
1	FCXDD40070	1N4007	D106
1	FCXDDBAS16	BAS16	D107
1	FCXDDBAS16	BAS16	D108
1	FCXDDBAS16	BAS16	D109
1	FCXDDBAS28	BAS28	D110
1	FCXDD40070	1N4007	D111
1	FCXDD40070	1N4007	D112
1	FCXDDBAS28	BAS28	D113
1	FCXDD40070	1N4007	D114
1	FCXZ000091	Z9.1V	D115
1	FCXDDBAS16	BAS16	D116
1	FCXDDBAS16	BAS16	D117
1	FCXDDBAS28	BAS28	D118
1	FCXDDBAS16	BAS16	D119
1	FCXZ000082	Z8.2V	D120
1	FCXDDBAS16	BAS16	D121
1	FCXDDBAS28	BAS28	D122
1	FCXDDBAS28	BAS28	D123
1	FCXZ000039	Z3.9V	D124
1	FCXZ000039	Z3.9V	D125
1	FCXDDBAS16	BAS16	D126
1	FCDDMUR140	MUR140	D127
1	FCDD041500	Z15	D128
1	FCDD041500	Z15	D129
1	FCDDMUR440	MUR440	D130
1	FCDDMUR440	MUR440	D131

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Q	Code	Description	Reference
1	FCXZ000082	Z8.2V	D132
1	FCXZ000082	Z8.2V	D133
1	FCDDMUR440	MUR440	D134
1	FCDDMUR440	MUR440	D135
1	FCDDMUR440	MUR440	D136
1	FCXZ000680	Z68V	D138
1	FCXZ000680	Z68V	D139
1	FCXDD40070	1N4007	D140
1	FCXDD40070	1N4007	D141
1	FCXDD40070	1N4007	D142
1	FCXDD40070	1N4007	D143
1	FCDIDB3000	DB3	D144
1	FCDD041500	Z15	D145
1	FCDD041500	Z15	D146
1	FCDD041500	Z15	D147
1	FCDD041500	Z15	D148
1	FCDD041500	Z15	D149
1	FCDD041500	Z15	D150
1	FCDD041500	Z15	D151
1	FCDD041500	Z15	D152
1	FCDD041500	Z15	D153
1	FCDD041500	Z15	D154
1	FCDD041500	Z15	D155
1	FCDD041500	Z15	D156
1	FCDD041500	Z15	D157
1	FCDD041500	Z15	D158
1	FCDD041500	Z15	D159
1	FCDD041500	Z15	D160
1	FCDD041500	Z15	D161
1	FCDD041500	Z15	D162
1	FCDD041500	Z15	D163
1	FCDD041500	Z15	D164
1	FCDD041500	Z15	D165
1	FCDD041500	Z15	D166
1	FCXDDBAS16	BAS16	D167
1	FCXDD40070	1N4007	D168
1	FCXDD40070	1N4007	D169
1	FCFUS40125	T1.25A	F101
1	FCFUS40125	T1.25A	F102
1	FCFUS50080	T250mA	F103
1	FCFUS60400	T16A	F104
1	FCFUS60400	T16A	F105
1	FCFER43220	Ferrite	FB101
1	FCFER43220	Ferrite	FB102
1	FCFER43220	Ferrite	FB103
1	FCFER43220	Ferrite	FB104
1	FCFER43220	Ferrite	FB105
1	FCFER43220	Ferrite	FB106
1	FCFER43220	Ferrite	FB107
1	FCFER43220	Ferrite	FB108
1	FCFER43220	Ferrite	FB109
1	FCFER43220	Ferrite	FB110
1	FCFER43220	Ferrite	FB111
1	FCFER43220	Ferrite	FB112
1	FCFER43220	Ferrite	FB113
1	FCFER43220	Ferrite	FB114

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCFER43220	Ferrite	FB115
1	FCFER43220	Ferrite	FB116
1	FCFER43220	Ferrite	FB117
1	FCFER43220	Ferrite	FB118
1	FCFER43220	Ferrite	FB119
1	FCFER43220	Ferrite	FB120
1	FCFER43220	Ferrite	FB121
1	FCFER43220	Ferrite	FB122
1	FCFER43220	Ferrite	FB123
1	FCFER43220	Ferrite	FB124
1	FCFER43220	Ferrite	FB125
1	FCFER43220	Ferrite	FB126
1	FCFER43220	Ferrite	FB127
1	FCFER43220	Ferrite	FB128
1	FCFER43220	Ferrite	FB129
1	FCFER43220	Ferrite	FB130
1	FCFER43220	Ferrite	FB131
1	FCFER43220	Ferrite	FB132
1	FCFER43220	Ferrite	FB133
1	FCFER43220	Ferrite	FB134
1	FCFER43220	Ferrite	FB135
1	FCFER43220	Ferrite	FB136
1	FCFER43220	Ferrite	FB137
1	FCFER43220	Ferrite	FB138
1	FCFER43220	Ferrite	FB139
1	FCFER43220	Ferrite	FB140
1	FCFER43220	Ferrite	FB141
1	FCFER43220	Ferrite	FB142
1	FCFER43220	Ferrite	FB143
1	FCFER43220	Ferrite	FB144
1	FCFER43220	Ferrite	FB145
1	FCFER43220	Ferrite	FB146
1	FCFER43220	Ferrite	FB147
1	FCFER43220	Ferrite	FB148
1	FCRAD12636	SERA. 1137	HS100
1	FCRAD12636	SERA. 1137	HS101
1	FCRAD12636	SERA. 1137	HS102
1	FCRAD12636	SERA. 1137	HS103
1	FCMECT0220	Heatsink f/TO220	HS104
1	FCRAD03000	Heatsink f/ Power Module	HS105
1	FCRAD03000	Heatsink f/ Power Module	HS106
1	FCIC350000	LM35DZ	IC101
1	FCIC431000	TL431AC	IC102
1	FCIC074010	TL074	IC104
1	FCIC431000	TL431AC	IC105
1	FCREG78150	7815	IC106
1	FCREG79150	7915	IC107
1	FCIC401060	40106B	IC108
1	FCREG78050	7805	IC109
1	FCIC218000	TH2180C	IC110
1	FCIC435000	4N35	IC111
1	FCIC553410	NE5534A	IC112
1	FCIC435000	4N35	IC113
1	FCIC074010	TL074	IC114
1	FCIC435000	4N35	IC115
1	FCMICTO126	Insulant TO126	IN100

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Q	Code	Description	Reference
1	FCMICTO126	Insulant TO126	IN101
1	FCMICTO220	Insulant TO220	IN102
1	FCMICTO220	Insulant TO220	IN103
1	FCTERM0080	Socket 8p	J100
1	FCCTJ10050	B5P-VH	J101
1	FCCTAMP050	5P AMP MALE SOCKET	J103
1	FCCTM00080	B8B-EH-A	J104
1	FCCTM00020	B2B-EH-A	J105
1	FCCTM00020	B2B-EH-A	J107
1	FCCTAMP020	BASE 2pins MALE AMP	J108
1	FCTERM0100	Jumper Pin	J109
1	FCTERM0100	Jumper Pin	J110
1	FCTERM0100	Jumper Pin	J111
1	FCTERM0100	Jumper Pin	J112
1	FCCTM00030	B3B-EH-A	J113
1	FCCTM00050	B5B-EH-A	J115
1	FCREL00300	TQ2-12V	K101
1	FCIND00100	1u	L101
1	FCMJ000100	Jumper	MJ101
1	FCMJ000100	Jumper	MJ102
1	FCPINZAM00	Clamp WD. 00.2636	MP100
1	FCPINZAM00	Clamp WD. 00.2636	MP101
1	FCPINZAM00	Clamp WD. 00.2636	MP102
1	FCPINZAM00	Clamp WD. 00.2636	MP103
1	FCTUE00300	Nut M3	NV100
1	FCTUE00300	Nut M3	NV101
1	FCTUE00300	Nut M3	NV102
1	FCTUE00300	Nut M3	NV103
1	FCTUE00300	Nut M3	NV104
1	FCPORF3150	3/15P	PF101
1	FCPORF0100	A0854668	PF102
1	FCPORF0100	A0854668	PF103
1	FCPORF0100	A0854668	PF104
1	FCPORF0100	A0854668	PF105
1	FCXTT08470	BC847B	Q101
1	FCXTT08170	BC817/25	Q102
1	FCXTT08570	BC857B	Q103
1	FCXTT08170	BC817/25	Q104
1	FCTR437000	BD437	Q105
1	FCTR437000	BD437	Q106
1	FCTR471000	BF471	Q107
1	FCTR472000	BF472	Q108
1	FCTR472000	BF472	Q109
1	FCTR472000	BF472	Q110
1	FCTR150000	BUH150	Q111
1	FCTR150310	MJE15031	Q112
1	FCTR150000	BUH150	Q113
1	FCTR150310	MJE15031	Q114
1	FCTR360000	IRFP360	Q115
1	FCTR360000	IRFP360	Q116
1	FCXTT08470	BC847B	Q117
1	FCXTT08470	BC847B	Q118
1	FCXTT08470	BC847B	Q119
1	FCXTT08470	BC847B	Q120
1	FCTI246000	BTB24600B	Q121
1	FCTR360000	IRFP360	Q122

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Q	Code	Description	Reference
1	FCTR360000	IRFP360	Q123
1	FCTR360000	IRFP360	Q124
1	FCTR360000	IRFP360	Q125
1	FCTR360000	IRFP360	Q126
1	FCTR360000	IRFP360	Q127
1	FCTR360000	IRFP360	Q128
1	FCTR360000	IRFP360	Q129
1	FCTR360000	IRFP360	Q130
1	FCTR360000	IRFP360	Q131
1	FCTR360000	IRFP360	Q132
1	FCTR360000	IRFP360	Q133
1	FCTR360000	IRFP360	Q134
1	FCTR360000	IRFP360	Q135
1	FCTR360000	IRFP360	Q136
1	FCTR360000	IRFP360	Q137
1	FCTR360000	IRFP360	Q138
1	FCTR360000	IRFP360	Q139
1	FCTR360000	IRFP360	Q140
1	FCTR360000	IRFP360	Q141
1	FCTR360000	IRFP360	Q142
1	FCTR360000	IRFP360	Q143
1	FCXTT08570	BC857B	Q144
1	FCXTT08570	BC857B	Q145
1	FCXR151000	100k0	R101
1	FCXR151000	100k0	R102
1	FCXR138250	8k25	R103
1	FCXR132210	2k21	R104
1	FCXR141000	10k0	R105
1	FCXR151000	100k0	R106
1	FCXR152260	226k	R107
1	FCXR141000	10k0	R108
1	FCXR121000	100.0	R109
1	FCXR151000	100k0	R110
1	FCXR132430	2k43	R111
1	FCXR061000	1M	R112
1	FCXR151000	100k0	R113
1	FCXR132210	2k21	R114
1	FCXR131000	1k0	R115
1	FCXR131270	1k27	R116
1	FCXR144750	47k5	R117
1	FCXR062200	2M2	R118
1	FCXR142210	22k1	R119
1	FCXR144750	47k5	R120
1	FCXR141000	10k0	R121
1	FCXR131820	1k82	R122
1	FCXR141000	10k0	R123
1	FCXR142000	20k0	R124
1	FCRJC61000	100k	R125
1	FCXR152260	226k	R126
1	FCXR151000	100k0	R127
1	FCXR142210	22k1	R128
1	FCXR062200	2M2	R129
1	FCXR148450	84k5	R130
1	FCXR151000	100k0	R131
1	FCXR142000	20k0	R132
1	FCXR141000	10k0	R133

Q	Code	Description	Reference
1	FCXR121000	100.0	R134
1	FCXR152870	287k	R135
1	FCXR117500	75.0	R136
1	FCXR117500	75.0	R137
1	FCXR142000	20k0	R138
1	FCXR141000	10k0	R139
1	FCXR135110	5k11	R140
1	FCXR131820	1k82	R141
1	FCXR151000	100k0	R142
1	FCXR131000	1k0	R143
1	FCXR142000	20k0	R144
1	FCXR061000	1M	R145
1	FCXR131820	1k82	R146
1	FCXR134750	4k75	R147
1	FCXR131000	1k0	R148
1	FCXR151000	100k0	R149
1	FCXR131000	1k0	R150
1	FCXR131000	1k0	R151
1	FCXR141000	10k0	R152
1	FCXR151000	100k0	R153
1	FCXR071000	10M	R154
1	FCXR121780	178	R155
1	FCXR141000	10k0	R156
1	FCXR131000	1k0	R157
1	FCXR131000	1k0	R158
1	FCXR127870	787	R159
1	FCXR121780	178	R160
1	FCXR127870	787	R161
1	FCXR121780	178	R162
1	FCXR131500	1k50	R163
1	FCXR131500	1k50	R164
1	FCXR131210	1k21	R165
1	FCRJP44700	4k7-CMET	R166
1	FCXR113320	33.2	R167
1	FCRC236800	680/ 1/2	R168
1	FCXR151000	100k0	R169
1	FCXR151000	100k0	R170
1	FCXR128250	825	R171
1	FCXR141000	10k0	R172
1	FCXR141000	10k0	R173
1	FCXR113320	33.2	R174
1	FCRC236800	680/ 1/2	R175
1	FCXR115620	56.2	R176
1	FCXR115620	56.2	R177
1	FCRF221000	NF10/1/2	R178
1	FCRF221000	NF10/1/2	R179
1	FCRF426800	NF68/1	R180
1	FCRF426800	NF68/1	R181
1	FCRF221800	NF18/ 1/2	R182
1	FCRF221800	NF18/ 1/2	R183
1	FCRY000100	W0.22/5	R184
1	FCRY000100	W0.22/5	R185
1	FCXR151500	150k0	R186
1	FCRY000250	6.8/5W	R187
1	FCXR151500	150k0	R188
1	FCXR121000	100.0	R189

Q	Code	Description	Reference
1	FCXR121000	100.0	R190
1	FCXR131000	1k0	R191
1	FCXR131000	1k0	R192
1	FCXR143320	33k2	R193
1	FCXR143320	33k2	R194
1	FCXR142210	22k1	R195
1	FCXR143320	33k2	R196
1	FCXR143320	33k2	R197
1	FCXR142210	22k1	R198
1	FCXR121000	100.0	R199
1	FCXR125620	562	R200
1	FCXR121000	100.0	R201
1	FCXR125620	562	R202
1	FCXR123010	301	R203
1	FCXR123010	301	R204
1	FCXR151000	100k0	R205
1	FCXR115620	56.2	R206
1	FCRC521000	10/2	R207
1	FCXR151500	150k0	R208
1	FCXR115620	56.2	R209
1	FCRC512200	2.2/2	R210
1	FCXR151000	100k0	R211
1	FCRC553300	33K/2	R212
1	FCRF221800	NF18/ 1/2	R213
1	FCRF221800	NF18/ 1/2	R214
1	FCRY000100	W0.22/5	R215
1	FCRY000100	W0.22/5	R216
1	FCRF221800	NF18/ 1/2	R217
1	FCRF221800	NF18/ 1/2	R218
1	FCRY000100	W0.22/5	R219
1	FCRY000100	W0.22/5	R220
1	FCRF221800	NF18/ 1/2	R221
1	FCRF221800	NF18/ 1/2	R222
1	FCRY000100	W0.22/5	R223
1	FCRY000100	W0.22/5	R224
1	FCRF221800	NF18/ 1/2	R225
1	FCRF221800	NF18/ 1/2	R226
1	FCRY000100	W0.22/5	R227
1	FCRY000100	W0.22/5	R228
1	FCRF221800	NF18/ 1/2	R229
1	FCRF221800	NF18/ 1/2	R230
1	FCRY000100	W0.22/5	R231
1	FCRY000100	W0.22/5	R232
1	FCRF221800	NF18/ 1/2	R233
1	FCRF221800	NF18/ 1/2	R234
1	FCRY000100	W0.22/5	R235
1	FCRY000100	W0.22/5	R236
1	FCRF221800	NF18/ 1/2	R237
1	FCRF221800	NF18/ 1/2	R238
1	FCRY000100	W0.22/5	R239
1	FCRY000100	W0.22/5	R240
1	FCRF221800	NF18/ 1/2	R241
1	FCRF221800	NF18/ 1/2	R242
1	FCRY000100	W0.22/5	R243
1	FCRY000100	W0.22/5	R244
1	FCRF221800	NF18/ 1/2	R245

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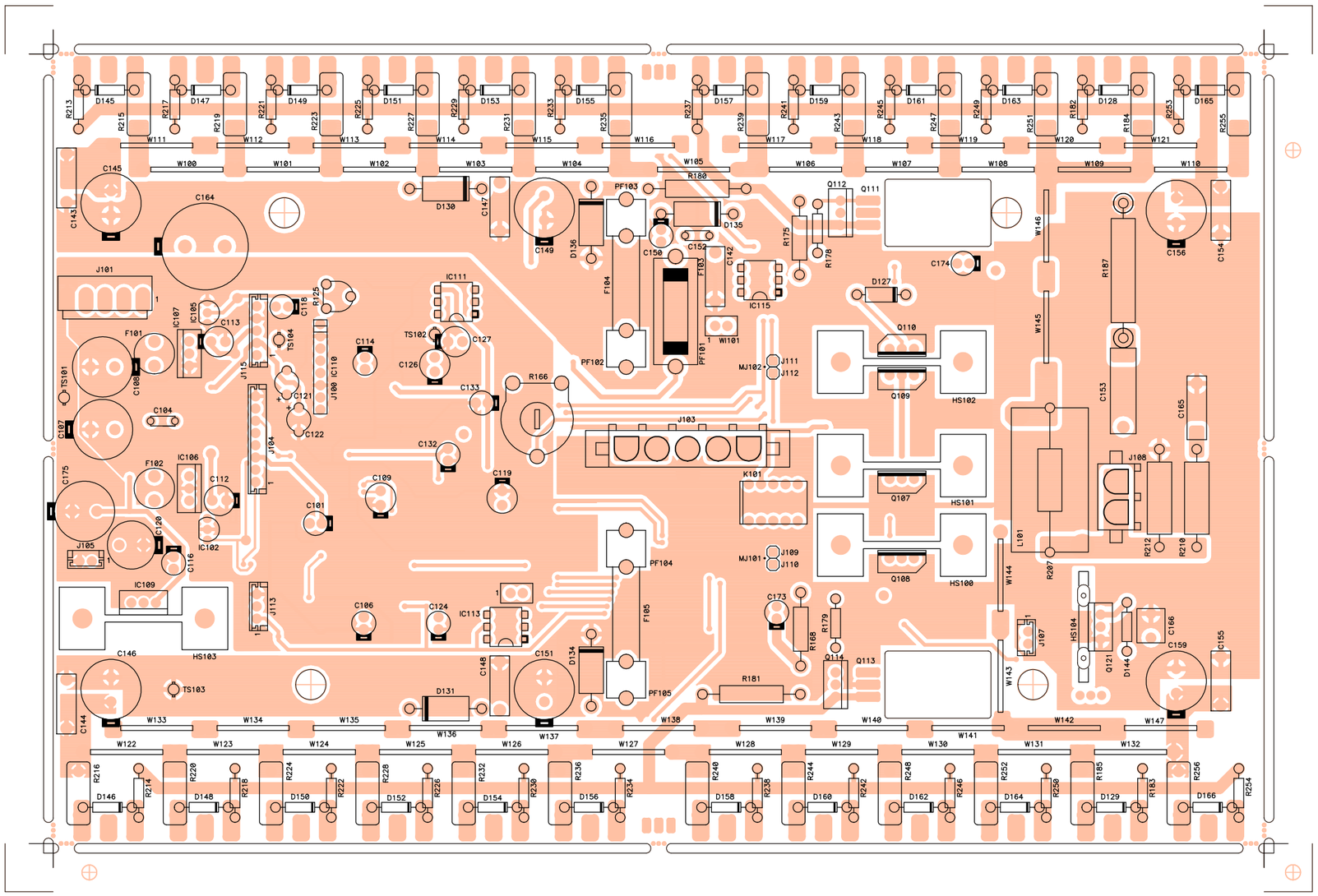
Q	Code	Description	Reference
1	FCRF221800	NF18/ 1/2	R246
1	FCRY000100	W0.22/5	R247
1	FCRY000100	W0.22/5	R248
1	FCRF221800	NF18/ 1/2	R249
1	FCRF221800	NF18/ 1/2	R250
1	FCRY000100	W0.22/5	R251
1	FCRY000100	W0.22/5	R252
1	FCRF221800	NF18/ 1/2	R253
1	FCRF221800	NF18/ 1/2	R254
1	FCRY000100	W0.22/5	R255
1	FCRY000100	W0.22/5	R256
1	FCXR126040	604	R257
1	FCXR151000	100k0	R258
1	FCXR141000	10k0	R259
1	FCXR152050	205k	R260
1	FCXR151000	100k0	R261
1	FCXR141000	10k0	R262
1	FCXR135110	5k11	R263
1	FCXR141000	10k0	R264
1	FCXR131000	1k0	R265
1	FCXR131000	1k0	R266
1	FCXR141000	10k0	R267
1	FCXR135110	5k11	R268
1	FCXR149090	90k9	R269
1	FCXR115620	56.2	R270
1	FCXR000000	0	RX100
1	FCXR000000	0	RX101
1	FCT8040060	Screw M4x6 SPAN	SC100
1	FCT8040060	Screw M4x6 SPAN	SC101
1	FCT8040060	Screw M4x6 SPAN	SC102
1	FCT8040060	Screw M4x6 SPAN	SC103
1	FCT8040060	Screw M4x6 SPAN	SC104
1	FCT8040060	Screw M4x6 SPAN	SC105
1	FCT8040060	Screw M4x6 SPAN	SC106
1	FCT8040060	Screw M4x6 SPAN	SC107
1	FCT8040060	Screw M4x6 SPAN	SC108
1	FCT8040060	Screw M4x6 SPAN	SC109
1	FCT8040060	Screw M4x6 SPAN	SC110
1	FCT8040060	Screw M4x6 SPAN	SC111
1	FCT8030100	Screw M3x10 SPA	SC112
1	FCT8030100	Screw M3x10 SPA	SC113
1	FCT8030150	Screw 3x15 SPIRALFORM	SC114
1	FCT8030150	Screw 3x15 SPIRALFORM	SC115
1	FCT8030100	Screw M3x10 SPA	SC116
1	FCT8030100	Screw M3x10 SPA	SC117
1	FCT7503010	Screw M3x10	SC118
1	FCT7503010	Screw M3x10	SC119
1	FCT7503010	Screw M3x10	SC120
1	FCT7503010	Screw M3x10	SC121
1	FCT8030150	Screw M3x15	SC122
1	FCSEPPM000	Plastic Spacer f/board ct.	SC123
1	FCT8030150	Screw 3x15 SPIRALFORM	SC124
1	FCT8030150	Screw 3x15 SPIRALFORM	SC125
1	FCSEPPM000	Plastic Spacer f/board ct.	SC126
1	FCSEPPM000	Plastic Spacer f/board ct.	SC127
1	FCSEPPM000	Plastic Spacer f/board ct.	SC128

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCTERMF280	Faston 2.8mm	TS101
1	FCTERMF280	Faston 2.8mm	TS102
1	FCTERMF280	Faston 2.8mm	TS103
1	FCTERMF280	Faston 2.8mm	TS104
1	FCMECPON19	19mm	W100
1	FCMECPON19	19mm	W101
1	FCMECPON19	19mm	W102
1	FCMECPON19	19mm	W103
1	FCMECPON19	19mm	W104
1	FCMECPON19	19mm	W105
1	FCMECPON19	19mm	W106
1	FCMECPON19	19mm	W107
1	FCMECPON19	19mm	W108
1	FCMECPON19	19mm	W109
1	FCMECPON19	19mm	W110
1	FCMECPON19	19mm	W111
1	FCMECPON19	19mm	W112
1	FCMECPON19	19mm	W113
1	FCMECPON19	19mm	W114
1	FCMECPON19	19mm	W115
1	FCMECPON19	19mm	W116
1	FCMECPON19	19mm	W117
1	FCMECPON19	19mm	W118
1	FCMECPON19	19mm	W119
1	FCMECPON19	19mm	W120
1	FCMECPON19	19mm	W121
1	FCMECPON19	19mm	W122
1	FCMECPON19	19mm	W123
1	FCMECPON19	19mm	W124
1	FCMECPON19	19mm	W125
1	FCMECPON19	19mm	W126
1	FCMECPON19	19mm	W127
1	FCMECPON19	19mm	W128
1	FCMECPON19	19mm	W129
1	FCMECPON19	19mm	W130
1	FCMECPON19	19mm	W131
1	FCMECPON19	19mm	W132
1	FCMECPON19	19mm	W133
1	FCMECPON19	19mm	W134
1	FCMECPON19	19mm	W135
1	FCMECPON19	19mm	W136
1	FCMECPON19	19mm	W137
1	FCMECPON19	19mm	W138
1	FCMECPON19	19mm	W139
1	FCMECPON19	19mm	W140
1	FCMECPON19	19mm	W141
1	FCMECPON19	19mm	W142
1	FCMECPON19	19mm	W143
1	FCMECPON19	19mm	W144
1	FCMECPON19	19mm	W145
1	FCMECPON19	19mm	W146
1	FCMECPON19	19mm	W147
1	FCARM32000	Metal Washer 3.2x6x0.5	WA100
1	FCARM32000	Metal Washer 3.2x6x0.5	WA101
1	FCARM32000	Metal Washer 3.2x6x0.5	WA102
1	FCARM32000	Metal Washer 3.2x6x0.5	WA103

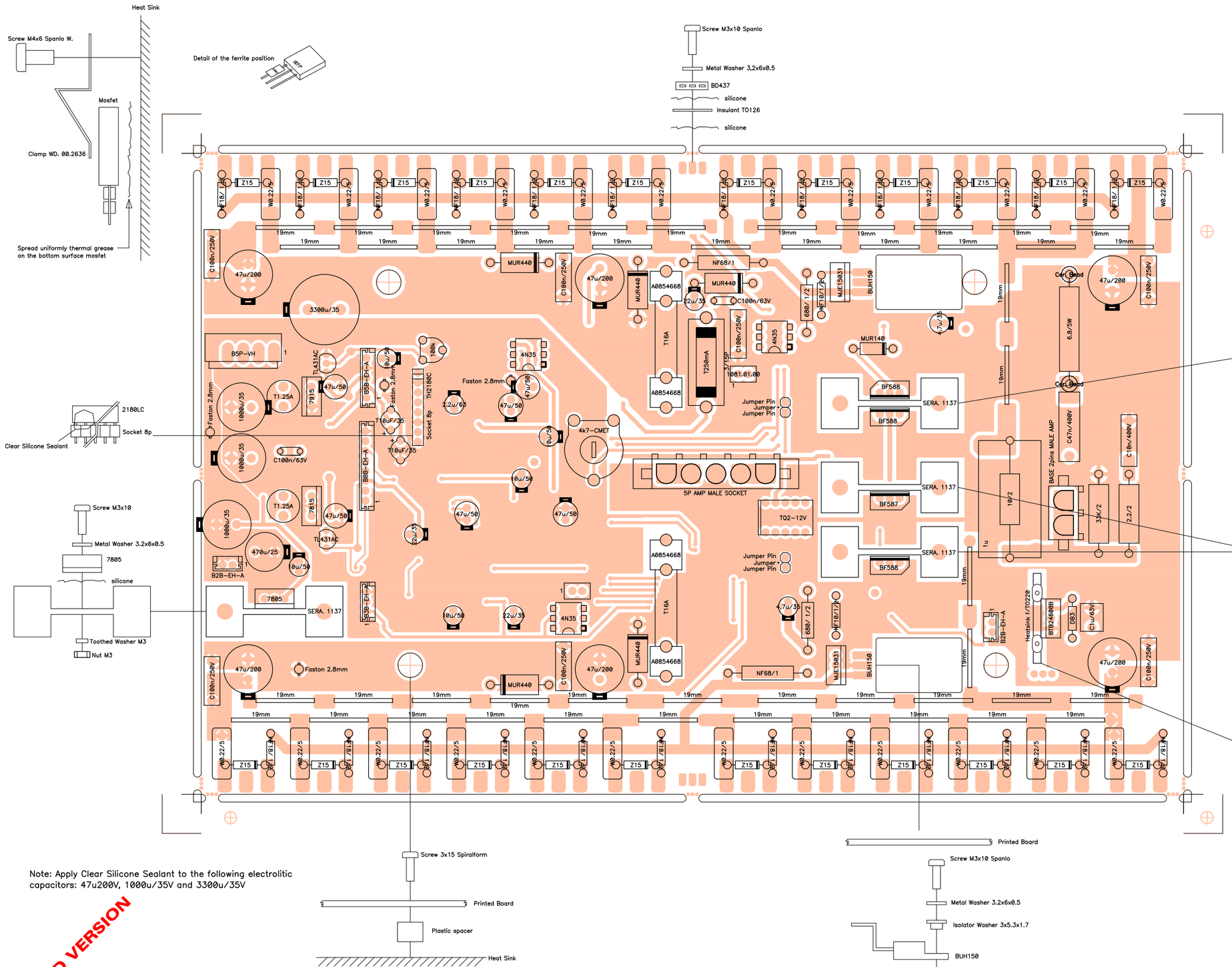
PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCARM32000	Metal Washer 3.2x6x0.5	WA104
1	FCARDE0300	Toothed Washer f/M3	WA105
1	FCARM32000	Metal Washer 3.2x6x0.5	WA106
1	FCARDE0300	Toothed Washer f/M3	WA107
1	FCARDE0300	Toothed Washer f/M3	WA108
1	FCARDE0300	Toothed Washer f/M3	WA109
1	FCARDE0300	Toothed Washer f/M3	WA110
1	FCARM32000	Metal Washer 3.2x6x0.5	WA114
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA115
1	FCSEPCE126	Ceramic Isolator TO126	WA116
1	FCSEPCE126	Ceramic Isolator TO126	WA117
1	FCSEPCE126	Ceramic Isolator TO126	WA118
1	FCSEPCE126	Ceramic Isolator TO126	WA119
1	FCARM32000	Metal Washer 3.2x6x0.5	WA120
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA122
1	FC4G081100	1081.01.00	WI101



OLD VERSION

ECLER ee LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0730-06.00 schema no: 10.0476-01.06 insertion file no:	side: Component view: Reference	
number: 33.0541	version: 01.06	project n: EP04-99B	title: Power Circuit
drawn by: M. Amoros	date: 000927	product n: PAM6100 approved: Angel Sanuy	



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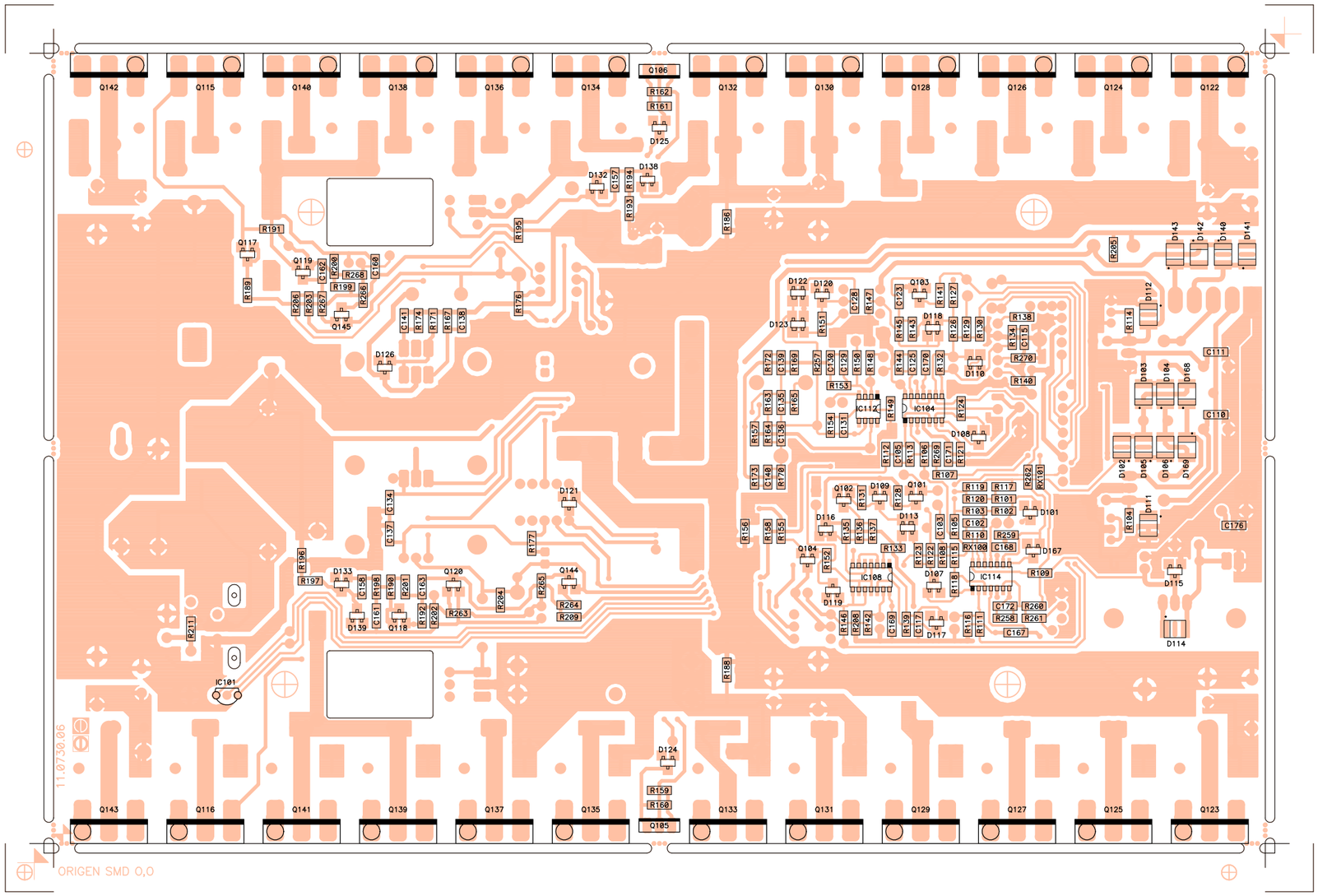
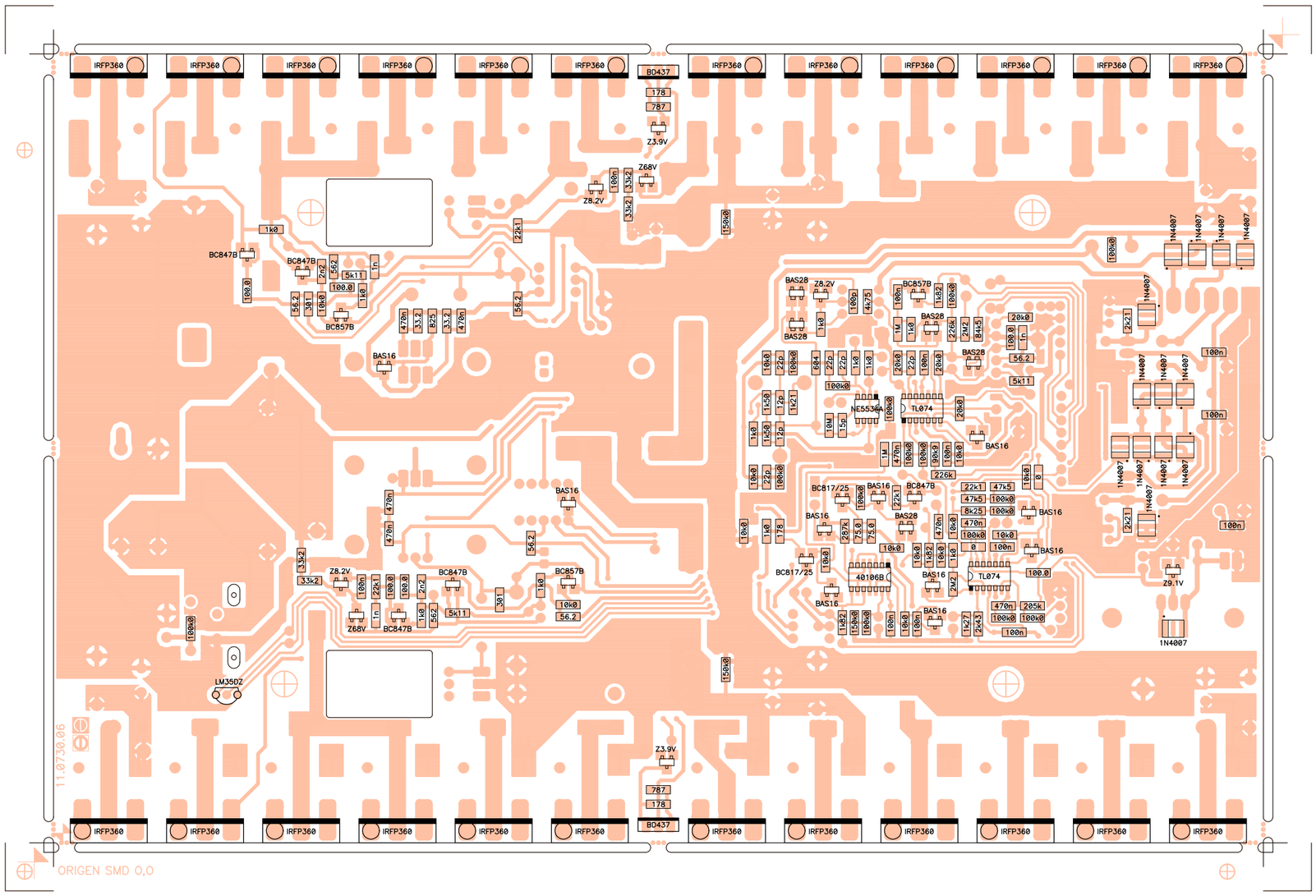
number: 33.0542	version: 01.07	project n: EP04-99B	title: Power Circuit
drawn by: M. Amoros	date: 000927	product n: PAM6100 approved: Angel Sanuy	



OLD VERSION

ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0730-06.00 schema no: 10.0476-01.06 insertion file no: 81.0039-01.04	side: Solder view: Reference	
number: 33.0543 / version: 01.06	project n: EP04-99B	title: Power Circuit	
drawn by: M. Amoros / date: 000927	product n: PAM6100		
	approved: Angel Sanuy		



OLD VERSION

ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0730-06.00 schema no: 10.0476-01.06 insertion file no: 81.0039-01.04	side: Solder view: Value	
number: 33.0544	version: 01.06	project n: EP04-99B	title: Power Circuit
drawn by: M. Amoros	date: 000927	product n: PAM6100	
		approved: Angel Sanuy	

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCCE200220	22u/35	C101
1	FCXCN44700	470n	C102
1	FCXCN44700	470n	C103
1	FCCDK11000	C100n/63V	C104
1	FCXCN44700	470n	C105
1	FCCE250100	10u/50	C106
1	FCCE211000	1000u/35	C107
1	FCCE211000	1000u/35	C108
1	FCCE250470	47u/50	C109
1	FCXCN41000	100n	C110
1	FCXCN41000	100n	C111
1	FCCE250470	47u/50	C112
1	FCCE250470	47u/50	C113
1	FCCE300022	2.2u/63	C114
1	FCXCN40010	1n	C115
1	FCCE250100	10u/50	C116
1	FCXCN41000	100n	C117
1	FCCE250100	10u/50	C118
1	FCCE250470	47u/50	C119
1	FCCE154700	470u/25	C120
1	FCCG001000	T10uF/35	C121
1	FCCG001000	T10uF/35	C122
1	FCXCN41000	100n	C123
1	FCCE200220	22u/35	C124
1	FCXCN12200	22p	C125
1	FCCE250470	47u/50	C126
1	FCCE250470	47u/50	C127
1	FCXCN21000	100p	C128
1	FCXCN12200	22p	C129
1	FCXCN12200	22p	C130
1	FCXCN11500	15p	C131
1	FCCE250100	10u/50	C132
1	FCCE250100	10u/50	C133
1	FCXCN44700	470n	C134
1	FCXCN11200	12p	C135
1	FCXCN11200	12p	C136
1	FCXCN44700	470n	C137
1	FCXCN44700	470n	C138
1	FCXCN12200	22p	C139
1	FCXCN12200	22p	C140
1	FCXCN44700	470n	C141
1	FCCDN11000	C100n/250V	C142
1	FCCDN11000	C100n/250V	C143
1	FCCDN11000	C100n/250V	C144
1	FCCE350047	47u/200	C145
1	FCCE350047	47u/200	C146
1	FCCDN11000	C100n/250V	C147
1	FCCDN11000	C100n/250V	C148
1	FCCE350047	47u/200	C149
1	FCCE200220	22u/35	C150
1	FCCE350047	47u/200	C151
1	FCCDK11000	C100n/63V	C152
1	FCCDH71047	C47n/400V	C153
1	FCCDN11000	C100n/250V	C154

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCCDN11000	C100n/250V	C155
1	FCCE350047	47u/200	C156
1	FCXCN41000	100n	C157
1	FCXCN41000	100n	C158
1	FCCE350047	47u/200	C159
1	FCXCN40010	1n	C160
1	FCXCN40010	1n	C161
1	FCXCN40022	2n2	C162
1	FCXCN40022	2n2	C163
1	FCCE213300	3300u/35	C164
1	FCCDH71011	C10n/400V	C165
1	FCCDK20010	C1u/63V	C166
1	FCXCN41000	100n	C167
1	FCXCN41000	100n	C168
1	FCXCN41000	100n	C169
1	FCXCN41000	100n	C170
1	FCXCN41000	100n	C171
1	FCXCN44700	470n	C172
1	FCCE200047	4.7u/35	C173
1	FCCE200047	4.7u/35	C174
1	FCCE211000	1000u/35	C175
1	FCXCN41000	100n	C176
1	FCPERL2550	Cer. Bead	CB101
1	FCPERL2550	Cer. Bead	CB102
1	FCPERL2550	Cer. Bead	CB103
1	FCPERL2550	Cer. Bead	CB104
1	FCCIPAM730	11.0730 Printed Board	CI101
1	FCXDDBAS16	BAS16	D101
1	FCXDD40070	1N4007	D102
1	FCXDD40070	1N4007	D103
1	FCXDD40070	1N4007	D104
1	FCXDD40070	1N4007	D105
1	FCXDD40070	1N4007	D106
1	FCXDDBAS16	BAS16	D107
1	FCXDDBAS16	BAS16	D108
1	FCXDDBAS16	BAS16	D109
1	FCXDDBAS28	BAS28	D110
1	FCXDD40070	1N4007	D111
1	FCXDD40070	1N4007	D112
1	FCXDDBAS28	BAS28	D113
1	FCXDD40070	1N4007	D114
1	FCXZ000091	Z9.1V	D115
1	FCXDDBAS16	BAS16	D116
1	FCXDDBAS16	BAS16	D117
1	FCXDDBAS28	BAS28	D118
1	FCXDDBAS16	BAS16	D119
1	FCXZ000082	Z8.2V	D120
1	FCXDDBAS16	BAS16	D121
1	FCXDDBAS28	BAS28	D122
1	FCXDDBAS28	BAS28	D123
1	FCXZ000039	Z3.9V	D124
1	FCXZ000039	Z3.9V	D125
1	FCXDDBAS16	BAS16	D126
1	FCDDMUR140	MUR140	D127

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCDD041500	Z15	D128
1	FCDD041500	Z15	D129
1	FCDDMUR440	MUR440	D130
1	FCDDMUR440	MUR440	D131
1	FCXZ000082	Z8.2V	D132
1	FCXZ000082	Z8.2V	D133
1	FCDDMUR440	MUR440	D134
1	FCDDMUR440	MUR440	D135
1	FCDDMUR440	MUR440	D136
1	FCXZ000680	Z68V	D138
1	FCXZ000680	Z68V	D139
1	FCXDD40070	1N4007	D140
1	FCXDD40070	1N4007	D141
1	FCXDD40070	1N4007	D142
1	FCXDD40070	1N4007	D143
1	FCDIDB3000	DB3	D144
1	FCDD041500	Z15	D145
1	FCDD041500	Z15	D146
1	FCDD041500	Z15	D147
1	FCDD041500	Z15	D148
1	FCDD041500	Z15	D149
1	FCDD041500	Z15	D150
1	FCDD041500	Z15	D151
1	FCDD041500	Z15	D152
1	FCDD041500	Z15	D153
1	FCDD041500	Z15	D154
1	FCDD041500	Z15	D155
1	FCDD041500	Z15	D156
1	FCDD041500	Z15	D157
1	FCDD041500	Z15	D158
1	FCDD041500	Z15	D159
1	FCDD041500	Z15	D160
1	FCDD041500	Z15	D161
1	FCDD041500	Z15	D162
1	FCDD041500	Z15	D163
1	FCDD041500	Z15	D164
1	FCDD041500	Z15	D165
1	FCDD041500	Z15	D166
1	FCXDDBAS16	BAS16	D167
1	FCXDD40070	1N4007	D168
1	FCXDD40070	1N4007	D169
1	FCFUS40125	T1.25A	F101
1	FCFUS40125	T1.25A	F102
1	FCFUS50080	T250mA	F103
1	FCFUS60400	T16A	F104
1	FCFUS60400	T16A	F105
1	FCFER43220	Ferrite	FB101
1	FCFER43220	Ferrite	FB102
1	FCFER43220	Ferrite	FB103
1	FCFER43220	Ferrite	FB104
1	FCFER43220	Ferrite	FB105
1	FCFER43220	Ferrite	FB106
1	FCFER43220	Ferrite	FB107
1	FCFER43220	Ferrite	FB108

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCFER43220	Ferrite	FB109
1	FCFER43220	Ferrite	FB110
1	FCFER43220	Ferrite	FB111
1	FCFER43220	Ferrite	FB112
1	FCFER43220	Ferrite	FB113
1	FCFER43220	Ferrite	FB114
1	FCFER43220	Ferrite	FB115
1	FCFER43220	Ferrite	FB116
1	FCFER43220	Ferrite	FB117
1	FCFER43220	Ferrite	FB118
1	FCFER43220	Ferrite	FB119
1	FCFER43220	Ferrite	FB120
1	FCFER43220	Ferrite	FB121
1	FCFER43220	Ferrite	FB122
1	FCFER43220	Ferrite	FB123
1	FCFER43220	Ferrite	FB124
1	FCFER43220	Ferrite	FB125
1	FCFER43220	Ferrite	FB126
1	FCFER43220	Ferrite	FB127
1	FCFER43220	Ferrite	FB128
1	FCFER43220	Ferrite	FB129
1	FCFER43220	Ferrite	FB130
1	FCFER43220	Ferrite	FB131
1	FCFER43220	Ferrite	FB132
1	FCFER43220	Ferrite	FB133
1	FCFER43220	Ferrite	FB134
1	FCFER43220	Ferrite	FB135
1	FCFER43220	Ferrite	FB136
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1	FCFER43220	Ferrite	FB143
1	FCFER43220	Ferrite	FB144
1	FCFER43220	Ferrite	FB145
1	FCFER43220	Ferrite	FB146
1	FCFER43220	Ferrite	FB147
1	FCFER43220	Ferrite	FB148
1	FCRAD12636	SERA. 1137	HS100
1	FCRAD12636	SERA. 1137	HS101
1	FCRAD12636	SERA. 1137	HS102
1	FCRAD12636	SERA. 1137	HS103
1	FCMECT0220	Heatsink f/TO220	HS104
1	FCRAD03000	Heatsink f/ Power Module	HS105
1	FCRAD03000	Heatsink f/ Power Module	HS106
1	FCIC350000	LM35DZ	IC101
1	FCIC431000	TL431AC	IC102
1	FCIC074010	TL074	IC104
1	FCIC431000	TL431AC	IC105
1	FCREG78150	7815	IC106
1	FCREG79150	7915	IC107
1	FCIC401060	40106B	IC108

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCREG78050	7805	IC109
1	FCIC218000	TH2180C	IC110
1	FCIC435000	4N35	IC111
1	FCIC553410	NE5534A	IC112
1	FCIC435000	4N35	IC113
1	FCIC074010	TL074	IC114
1	FCIC435000	4N35	IC115
1	FCMICTO126	Insulant TO126	IN100
1	FCMICTO126	Insulant TO126	IN101
1	FCMICTO220	Insulant TO220	IN102
1	FCMICTO220	Insulant TO220	IN103
1	FCTERM0080	Socket 8p	J100
1	FCCTJ10050	B5P-VH	J101
1	FCCTAMP050	5P AMP MALE SOCKET	J103
1	FCCTM00080	B8B-EH-A	J104
1	FCCTM00020	B2B-EH-A	J105
1	FCCTM00020	B2B-EH-A	J107
1	FCCTAMP020	BASE 2pins MALE AMP	J108
1	FCTERM0100	Jumper Pin	J109
1	FCTERM0100	Jumper Pin	J110
1	FCTERM0100	Jumper Pin	J111
1	FCTERM0100	Jumper Pin	J112
1	FCCTM00030	B3B-EH-A	J113
1	FCCTM00050	B5B-EH-A	J115
1	FCREL00300	TQ2-12V	K101
1	FCIND00100	1u	L101
1	FCMJ000100	Jumper	MJ101
1	FCMJ000100	Jumper	MJ102
1	FCPINZAM00	Clamp WD. 00.2636	MP100
1	FCPINZAM00	Clamp WD. 00.2636	MP101
1	FCPINZAM00	Clamp WD. 00.2636	MP102
1	FCPINZAM00	Clamp WD. 00.2636	MP103
1	FCTUE00300	Nut M3	NV100
1	FCTUE00300	Nut M3	NV101
1	FCTUE00300	Nut M3	NV102
1	FCTUE00300	Nut M3	NV103
1	FCTUE00300	Nut M3	NV104
1	FCPORF3150	3/15P	PF101
1	FCPORF0100	A0854668	PF102
1	FCPORF0100	A0854668	PF103
1	FCPORF0100	A0854668	PF104
1	FCPORF0100	A0854668	PF105
1	FCXTT08470	BC847B	Q101
1	FCXTT08170	BC817/25	Q102
1	FCXTT08570	BC857B	Q103
1	FCXTT08170	BC817/25	Q104
1	FCTR437000	BD437	Q105
1	FCTR437000	BD437	Q106
1	FCTR587000	BF587	Q107
1	FCTR588000	BF588	Q108
1	FCTR588000	BF588	Q109
1	FCTR588000	BF588	Q110
1	FCTR150000	BUH150	Q111
1	FCTR150310	MJE15031	Q112

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCTR150000	BUH150	Q113
1	FCTR150310	MJE15031	Q114
1	FCTR360000	IRFP360	Q115
1	FCTR360000	IRFP360	Q116
1	FCXTT08470	BC847B	Q117
1	FCXTT08470	BC847B	Q118
1	FCXTT08470	BC847B	Q119
1	FCXTT08470	BC847B	Q120
1	FCTI246000	BTB24600B	Q121
1	FCTR360000	IRFP360	Q122
1	FCTR360000	IRFP360	Q123
1	FCTR360000	IRFP360	Q124
1	FCTR360000	IRFP360	Q125
1	FCTR360000	IRFP360	Q126
1	FCTR360000	IRFP360	Q127
1	FCTR360000	IRFP360	Q128
1	FCTR360000	IRFP360	Q129
1	FCTR360000	IRFP360	Q130
1	FCTR360000	IRFP360	Q131
1	FCTR360000	IRFP360	Q132
1	FCTR360000	IRFP360	Q133
1	FCTR360000	IRFP360	Q134
1	FCTR360000	IRFP360	Q135
1	FCTR360000	IRFP360	Q136
1	FCTR360000	IRFP360	Q137
1	FCTR360000	IRFP360	Q138
1	FCTR360000	IRFP360	Q139
1	FCTR360000	IRFP360	Q140
1	FCTR360000	IRFP360	Q141
1	FCTR360000	IRFP360	Q142
1	FCTR360000	IRFP360	Q143
1	FCXTT08570	BC857B	Q144
1	FCXTT08570	BC857B	Q145
1	FCXR151000	100k0	R101
1	FCXR151000	100k0	R102
1	FCXR138250	8k25	R103
1	FCXR132210	2k21	R104
1	FCXR141000	10k0	R105
1	FCXR151000	100k0	R106
1	FCXR152260	226k	R107
1	FCXR141000	10k0	R108
1	FCXR121000	100.0	R109
1	FCXR151000	100k0	R110
1	FCXR132430	2k43	R111
1	FCXR061000	1M	R112
1	FCXR151000	100k0	R113
1	FCXR132210	2k21	R114
1	FCXR131000	1k0	R115
1	FCXR131270	1k27	R116
1	FCXR144750	47k5	R117
1	FCXR062200	2M2	R118
1	FCXR142210	22k1	R119
1	FCXR144750	47k5	R120
1	FCXR141000	10k0	R121

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCXR131820	1k82	R122
1	FCXR141000	10k0	R123
1	FCXR142000	20k0	R124
1	FCRJC61000	100k	R125
1	FCXR152260	226k	R126
1	FCXR151000	100k0	R127
1	FCXR142210	22k1	R128
1	FCXR062200	2M2	R129
1	FCXR148450	84k5	R130
1	FCXR151000	100k0	R131
1	FCXR142000	20k0	R132
1	FCXR141000	10k0	R133
1	FCXR121000	100.0	R134
1	FCXR152870	287k	R135
1	FCXR117500	75.0	R136
1	FCXR117500	75.0	R137
1	FCXR142000	20k0	R138
1	FCXR141000	10k0	R139
1	FCXR135110	5k11	R140
1	FCXR131820	1k82	R141
1	FCXR151000	100k0	R142
1	FCXR131000	1k0	R143
1	FCXR142000	20k0	R144
1	FCXR061000	1M	R145
1	FCXR131820	1k82	R146
1	FCXR134750	4k75	R147
1	FCXR131000	1k0	R148
1	FCXR151000	100k0	R149
1	FCXR131000	1k0	R150
1	FCXR131000	1k0	R151
1	FCXR141000	10k0	R152
1	FCXR151000	100k0	R153
1	FCXR071000	10M	R154
1	FCXR121780	178	R155
1	FCXR141000	10k0	R156
1	FCXR131000	1k0	R157
1	FCXR131000	1k0	R158
1	FCXR127870	787	R159
1	FCXR121780	178	R160
1	FCXR127870	787	R161
1	FCXR121780	178	R162
1	FCXR131500	1k50	R163
1	FCXR131500	1k50	R164
1	FCXR131210	1k21	R165
1	FCRJP44700	4k7-CMET	R166
1	FCXR113320	33.2	R167
1	FCRC236800	680/ 1/2	R168
1	FCXR151000	100k0	R169
1	FCXR151000	100k0	R170
1	FCXR128250	825	R171
1	FCXR141000	10k0	R172
1	FCXR141000	10k0	R173
1	FCXR113320	33.2	R174
1	FCRC236800	680/ 1/2	R175

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCXR115620	56.2	R176
1	FCXR115620	56.2	R177
1	FCRF221000	NF10/1/2	R178
1	FCRF221000	NF10/1/2	R179
1	FCRF426800	NF68/1	R180
1	FCRF426800	NF68/1	R181
1	FCRF221800	NF18/ 1/2	R182
1	FCRF221800	NF18/ 1/2	R183
1	FCRY000100	W0.22/5	R184
1	FCRY000100	W0.22/5	R185
1	FCXR151500	150k0	R186
1	FCRY000250	6.8/5W	R187
1	FCXR151500	150k0	R188
1	FCXR121000	100.0	R189
1	FCXR121000	100.0	R190
1	FCXR131000	1k0	R191
1	FCXR131000	1k0	R192
1	FCXR143320	33k2	R193
1	FCXR143320	33k2	R194
1	FCXR142210	22k1	R195
1	FCXR143320	33k2	R196
1	FCXR143320	33k2	R197
1	FCXR142210	22k1	R198
1	FCXR121000	100.0	R199
1	FCXR125620	562	R200
1	FCXR121000	100.0	R201
1	FCXR125620	562	R202
1	FCXR123010	301	R203
1	FCXR123010	301	R204
1	FCXR151000	100k0	R205
1	FCXR115620	56.2	R206
1	FCRC521000	10/2	R207
1	FCXR151500	150k0	R208
1	FCXR115620	56.2	R209
1	FCRC512200	2.2/2	R210
1	FCXR151000	100k0	R211
1	FCRC553300	33K/2	R212
1	FCRF221800	NF18/ 1/2	R213
1	FCRF221800	NF18/ 1/2	R214
1	FCRY000100	W0.22/5	R215
1	FCRY000100	W0.22/5	R216
1	FCRF221800	NF18/ 1/2	R217
1	FCRF221800	NF18/ 1/2	R218
1	FCRY000100	W0.22/5	R219
1	FCRY000100	W0.22/5	R220
1	FCRF221800	NF18/ 1/2	R221
1	FCRF221800	NF18/ 1/2	R222
1	FCRY000100	W0.22/5	R223
1	FCRY000100	W0.22/5	R224
1	FCRF221800	NF18/ 1/2	R225
1	FCRF221800	NF18/ 1/2	R226
1	FCRY000100	W0.22/5	R227
1	FCRY000100	W0.22/5	R228
1	FCRF221800	NF18/ 1/2	R229

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCRF221800	NF18/ 1/2	R230
1	FCRY000100	W0.22/5	R231
1	FCRY000100	W0.22/5	R232
1	FCRF221800	NF18/ 1/2	R233
1	FCRF221800	NF18/ 1/2	R234
1	FCRY000100	W0.22/5	R235
1	FCRY000100	W0.22/5	R236
1	FCRF221800	NF18/ 1/2	R237
1	FCRF221800	NF18/ 1/2	R238
1	FCRY000100	W0.22/5	R239
1	FCRY000100	W0.22/5	R240
1	FCRF221800	NF18/ 1/2	R241
1	FCRF221800	NF18/ 1/2	R242
1	FCRY000100	W0.22/5	R243
1	FCRY000100	W0.22/5	R244
1	FCRF221800	NF18/ 1/2	R245
1	FCRF221800	NF18/ 1/2	R246
1	FCRY000100	W0.22/5	R247
1	FCRY000100	W0.22/5	R248
1	FCRF221800	NF18/ 1/2	R249
1	FCRF221800	NF18/ 1/2	R250
1	FCRY000100	W0.22/5	R251
1	FCRY000100	W0.22/5	R252
1	FCRF221800	NF18/ 1/2	R253
1	FCRF221800	NF18/ 1/2	R254
1	FCRY000100	W0.22/5	R255
1	FCRY000100	W0.22/5	R256
1	FCXR126040	604	R257
1	FCXR151000	100k0	R258
1	FCXR141000	10k0	R259
1	FCXR152050	205k	R260
1	FCXR151000	100k0	R261
1	FCXR141000	10k0	R262
1	FCXR135110	5k11	R263
1	FCXR141000	10k0	R264
1	FCXR131000	1k0	R265
1	FCXR131000	1k0	R266
1	FCXR141000	10k0	R267
1	FCXR135110	5k11	R268
1	FCXR149090	90k9	R269
1	FCXR115620	56.2	R270
1	FCXR000000	0	RX100
1	FCXR000000	0	RX101
1	FCT8040060	Screw M4x6 SPAN	SC100
1	FCT8040060	Screw M4x6 SPAN	SC101
1	FCT8040060	Screw M4x6 SPAN	SC102
1	FCT8040060	Screw M4x6 SPAN	SC103
1	FCT8040060	Screw M4x6 SPAN	SC104
1	FCT8040060	Screw M4x6 SPAN	SC105
1	FCT8040060	Screw M4x6 SPAN	SC106
1	FCT8040060	Screw M4x6 SPAN	SC107
1	FCT8040060	Screw M4x6 SPAN	SC108
1	FCT8040060	Screw M4x6 SPAN	SC109
1	FCT8040060	Screw M4x6 SPAN	SC110

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

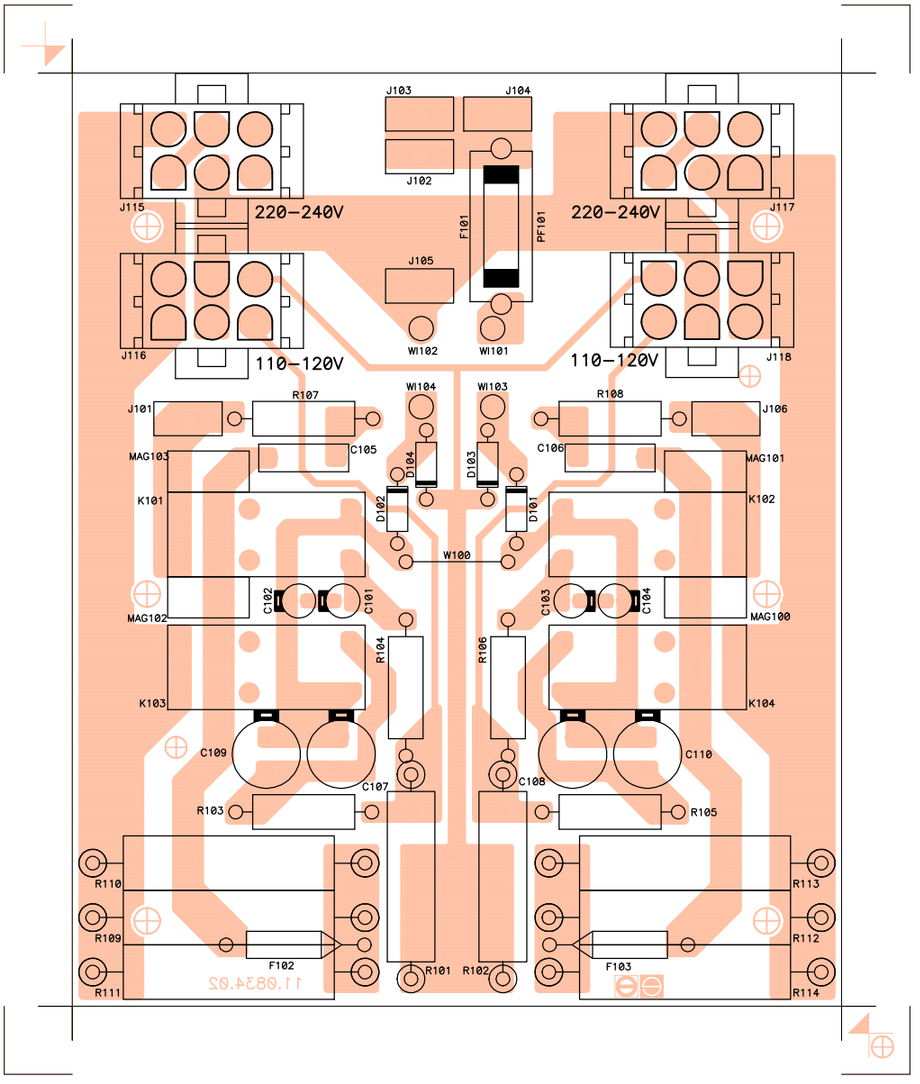
Q	Code	Description	Reference
1	FCT8040060	Screw M4x6 SPAN	SC111
1	FCT8030100	Screw M3x10 SPA	SC112
1	FCT8030100	Screw M3x10 SPA	SC113
1	FCT8030150	Screw 3x15 SPIRALFORM	SC114
1	FCT8030150	Screw 3x15 SPIRALFORM	SC115
1	FCT8030100	Screw M3x10 SPA	SC116
1	FCT8030100	Screw M3x10 SPA	SC117
1	FCT7503010	Screw M3x10	SC118
1	FCT7503010	Screw M3x10	SC119
1	FCT7503010	Screw M3x10	SC120
1	FCT7503010	Screw M3x10	SC121
1	FCT8030150	Screw M3x15	SC122
1	FCSEPPM000	Plastic Spacer f/board ct.	SC123
1	FCT8030150	Screw 3x15 SPIRALFORM	SC124
1	FCT8030150	Screw 3x15 SPIRALFORM	SC125
1	FCSEPPM000	Plastic Spacer f/board ct.	SC126
1	FCSEPPM000	Plastic Spacer f/board ct.	SC127
1	FCSEPPM000	Plastic Spacer f/board ct.	SC128
1	FCTERMF280	Faston 2.8mm	TS101
1	FCTERMF280	Faston 2.8mm	TS102
1	FCTERMF280	Faston 2.8mm	TS103
1	FCTERMF280	Faston 2.8mm	TS104
1	FCMECPON19	19mm	W100
1	FCMECPON19	19mm	W101
1	FCMECPON19	19mm	W102
1	FCMECPON19	19mm	W103
1	FCMECPON19	19mm	W104
1	FCMECPON19	19mm	W105
1	FCMECPON19	19mm	W106
1	FCMECPON19	19mm	W107
1	FCMECPON19	19mm	W108
1	FCMECPON19	19mm	W109
1	FCMECPON19	19mm	W110
1	FCMECPON19	19mm	W111
1	FCMECPON19	19mm	W112
1	FCMECPON19	19mm	W113
1	FCMECPON19	19mm	W114
1	FCMECPON19	19mm	W115
1	FCMECPON19	19mm	W116
1	FCMECPON19	19mm	W117
1	FCMECPON19	19mm	W118
1	FCMECPON19	19mm	W119
1	FCMECPON19	19mm	W120
1	FCMECPON19	19mm	W121
1	FCMECPON19	19mm	W122
1	FCMECPON19	19mm	W123
1	FCMECPON19	19mm	W124
1	FCMECPON19	19mm	W125
1	FCMECPON19	19mm	W126
1	FCMECPON19	19mm	W127
1	FCMECPON19	19mm	W128
1	FCMECPON19	19mm	W129
1	FCMECPON19	19mm	W130
1	FCMECPON19	19mm	W131

OLD VERSION

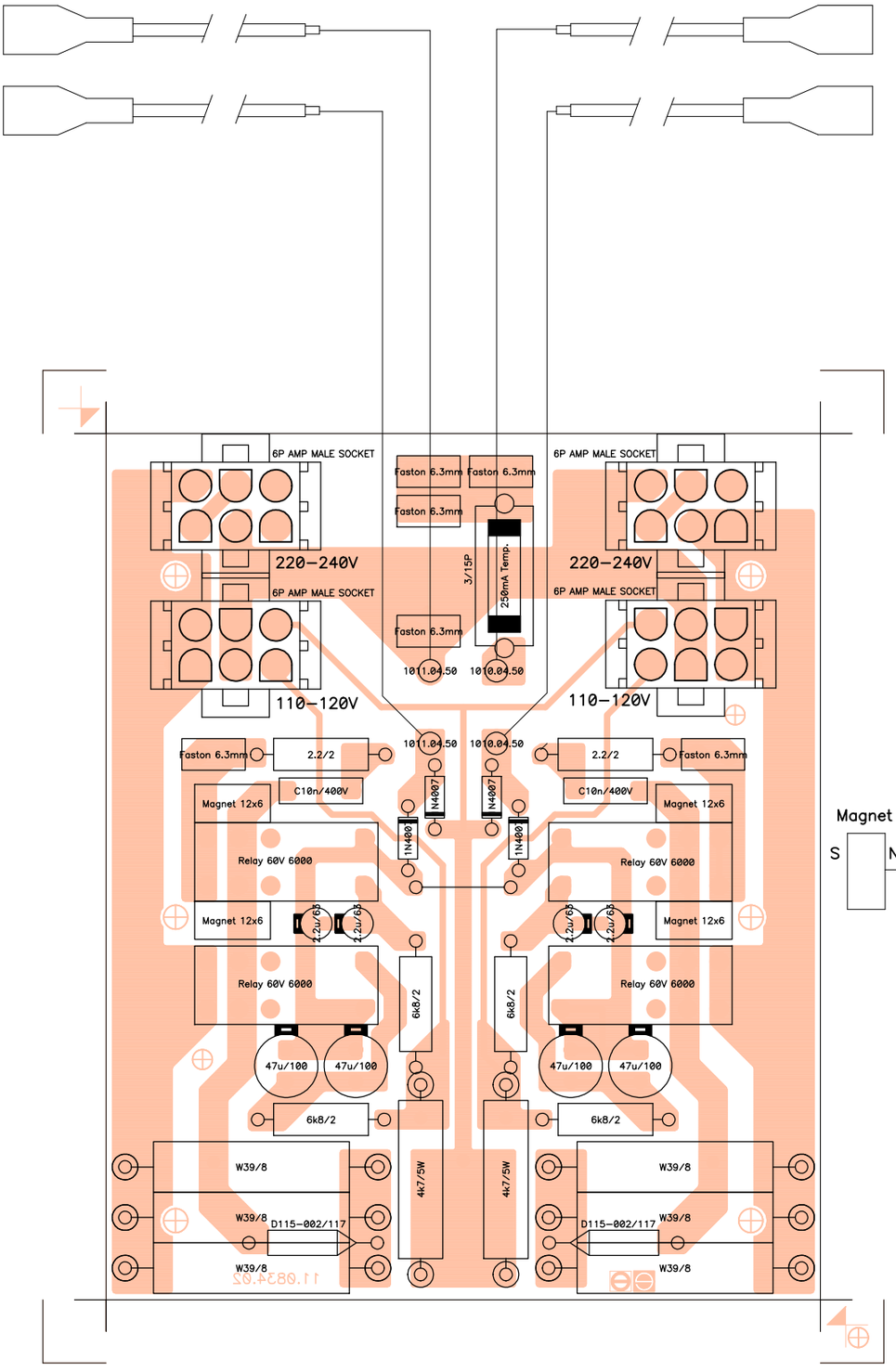
PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

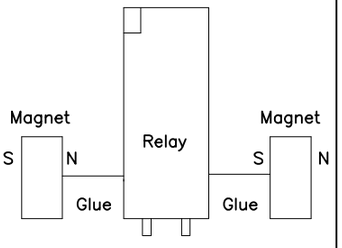
Q	Code	Description	Reference
1	FCMECPON19	19mm	W132
1	FCMECPON19	19mm	W133
1	FCMECPON19	19mm	W134
1	FCMECPON19	19mm	W135
1	FCMECPON19	19mm	W136
1	FCMECPON19	19mm	W137
1	FCMECPON19	19mm	W138
1	FCMECPON19	19mm	W139
1	FCMECPON19	19mm	W140
1	FCMECPON19	19mm	W141
1	FCMECPON19	19mm	W142
1	FCMECPON19	19mm	W143
1	FCMECPON19	19mm	W144
1	FCMECPON19	19mm	W145
1	FCMECPON19	19mm	W146
1	FCMECPON19	19mm	W147
1	FCARM32000	Metal Washer 3.2x6x0.5	WA100
1	FCARM32000	Metal Washer 3.2x6x0.5	WA101
1	FCARM32000	Metal Washer 3.2x6x0.5	WA102
1	FCARM32000	Metal Washer 3.2x6x0.5	WA103
1	FCARM32000	Metal Washer 3.2x6x0.5	WA104
1	FCARDE0300	Toothed Washer f/M3	WA105
1	FCARM32000	Metal Washer 3.2x6x0.5	WA106
1	FCARDE0300	Toothed Washer f/M3	WA107
1	FCARDE0300	Toothed Washer f/M3	WA108
1	FCARDE0300	Toothed Washer f/M3	WA109
1	FCARDE0300	Toothed Washer f/M3	WA110
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA111
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA112
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA113
1	FCARM32000	Metal Washer 3.2x6x0.5	WA114
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA115
1	FCARAT1000	Isolator Washer 5.1x13.1x1.6	WA116
1	FCARAT1000	Isolator Washer 5.1x13.1x1.6	WA117
1	FCARAT1000	Isolator Washer 5.1x13.1x1.6	WA118
1	FCARAT1000	Isolator Washer 5.1x13.1x1.6	WA119
1	FCARM32000	Metal Washer 3.2x6x0.5	WA120
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA121
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA122
1	FC4G081100	1081.01.00	WI101

OLD VERSION

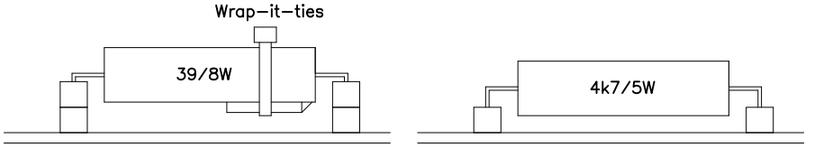


ECLER LABORATORIO DE ELECTRO–ACUSTICA S.A.		related to: circuit no: 11.0834–02.00 schema no: 10.0531–01.01 insertion file no:	side: Component view: Reference	
number: 33.0551	version: 01.01	project n: EP04–99	title: Soft–Start Ct.	
drawn by: M. Amoros	date: 001017	product n: PAM6100/4100		
		approved: Angel Sanuy		





Magnet Assembly Detail



Assembly Details

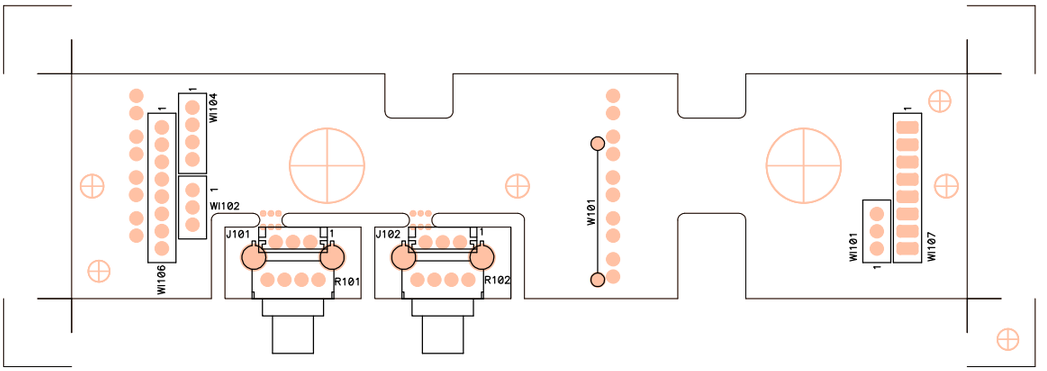
ECLEREE LABORATORIO DE ELECTRO–ACUSTICA S.A.		related to: circuit no: 11.0834–02.00 schema no: 10.0531–01.01 insertion file no:	side: Component view: Value	
number: 33.0552	version: 01.01	project n: EP04–99	title: Soft–Start Ct.	
drawn by: M. Amoros	date: 001017	product n: PAM6100/4100 approved: Angel Sanuy		

PARTS LIST: PRINTED CIRCUIT 11.0834.02.00

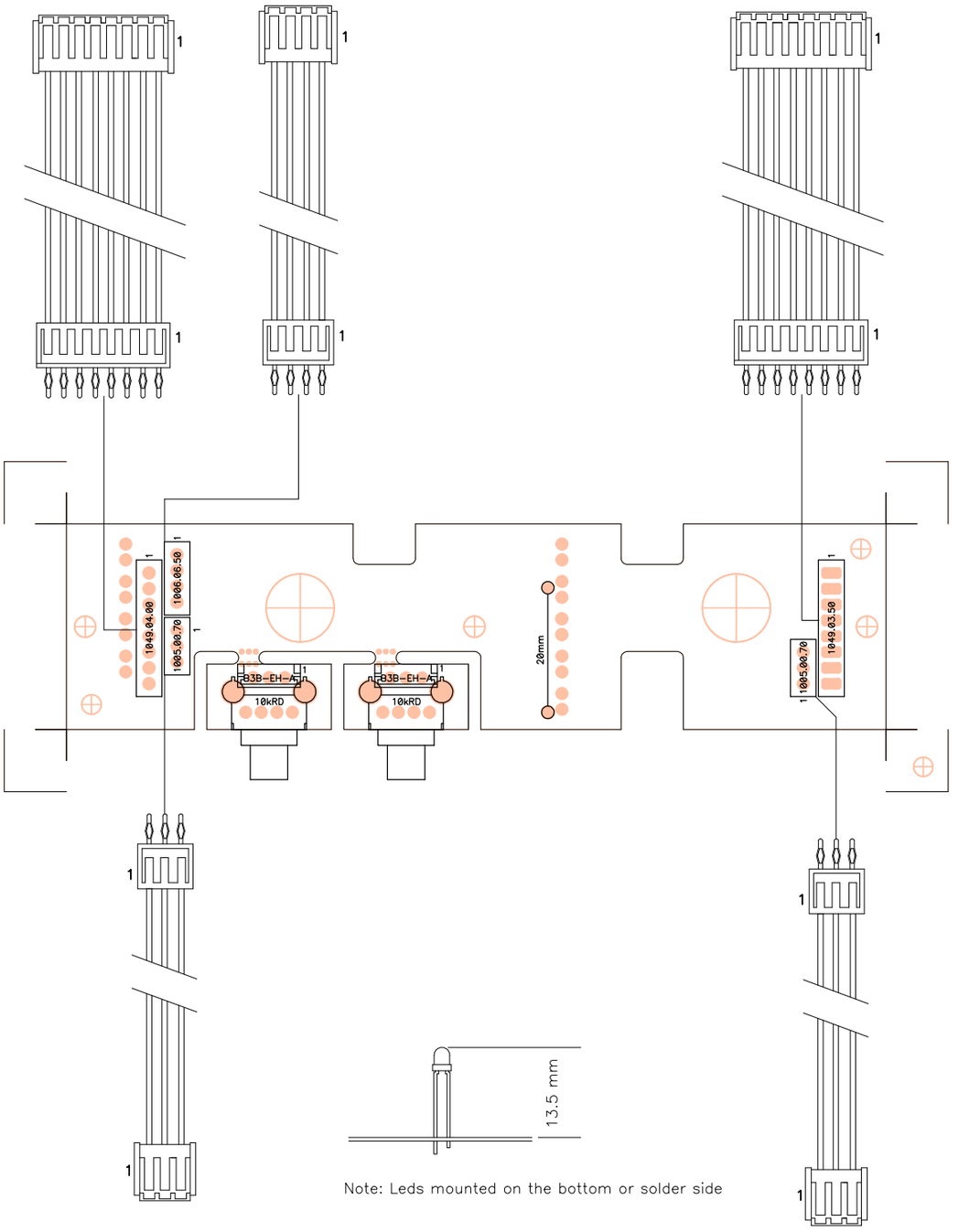
Q	Code	Description	Reference
1	FCCE300022	2.2u/63	C101
1	FCCE300022	2.2u/63	C102
1	FCCE300022	2.2u/63	C103
1	FCCE300022	2.2u/63	C104
1	FCCDH71011	C10n/400V	C105
1	FCCDH71011	C10n/400V	C106
1	FCCE350470	47u/100	C107
1	FCCE350470	47u/100	C108
1	FCCE350470	47u/100	C109
1	FCCE350470	47u/100	C110
1	FCPERL2550	Cer. Bead	CB101
1	FCPERL2550	Cer. Bead	CB102
1	FCPERL2550	Cer. Bead	CB103
1	FCPERL2550	Cer. Bead	CB104
1	FCPERL2550	Cer. Bead	CB105
1	FCPERL2550	Cer. Bead	CB106
1	FCPERL2550	Cer. Bead	CB107
1	FCPERL2550	Cer. Bead	CB108
1	FCPERL2550	Cer. Bead	CB109
1	FCPERL2550	Cer. Bead	CB110
1	FCPERL2550	Cer. Bead	CB111
1	FCPERL2550	Cer. Bead	CB112
1	FCPERL2550	Cer. Bead	CB113
1	FCPERL2550	Cer. Bead	CB114
1	FCPERL2550	Cer. Bead	CB115
1	FCPERL2550	Cer. Bead	CB116
1	FCPERL2550	Cer. Bead	CB117
1	FCPERL2550	Cer. Bead	CB118
1	FCPERL2550	Cer. Bead	CB119
1	FCPERL2550	Cer. Bead	CB120
1	FCPERL2550	Cer. Bead	CB121
1	FCPERL2550	Cer. Bead	CB122
1	FCPERL2550	Cer. Bead	CB123
1	FCPERL2550	Cer. Bead	CB124
1	FCPERL2550	Cer. Bead	CB125
1	FCPERL2550	Cer. Bead	CB126
1	FCPERL2550	Cer. Bead	CB127
1	FCPERL2550	Cer. Bead	CB128
1	FCCIPAM834	11.0834 Printed Board	CI101
1	FCDD140070	1N4007	D101
1	FCDD140070	1N4007	D102
1	FCDD140070	1N4007	D103
1	FCDD140070	1N4007	D104
1	FCFUS50080	250mA Temp.	F101
1	FCFUSTER00	D115-002/117	F102
1	FCFUSTER00	D115-002/117	F103
1	FCTERMF630	Faston 6.3mm	J101
1	FCTERMF630	Faston 6.3mm	J102
1	FCTERMF630	Faston 6.3mm	J103
1	FCTERMF630	Faston 6.3mm	J104
1	FCTERMF630	Faston 6.3mm	J105
1	FCTERMF630	Faston 6.3mm	J106
1	FCCTAMP060	6P AMP MALE SOCKET	J115
1	FCCTAMP060	6P AMP MALE SOCKET	J116

PARTS LIST: PRINTED CIRCUIT 11.0834.02.00

Q	Code	Description	Reference
1	FCCTAMP060	6P AMP MALE SOCKET	J117
1	FCCTAMP060	6P AMP MALE SOCKET	J118
1	FCREL10600	Relay 60V 6000	K101
1	FCREL10600	Relay 60V 6000	K102
1	FCREL10600	Relay 60V 6000	K103
1	FCREL10600	Relay 60V 6000	K104
1	FCIMAN0000	Magnet 12x6	MAG100
1	FCIMAN0000	Magnet 12x6	MAG101
1	FCIMAN0000	Magnet 12x6	MAG102
1	FCIMAN0000	Magnet 12x6	MAG103
1	FCPORF3150	3/15P	PF101
1	FCRY000400	4k7/5W	R101
1	FCRY000400	4k7/5W	R102
1	FCRC546800	6k8/2	R103
1	FCRC546800	6k8/2	R104
1	FCRC546800	6k8/2	R105
1	FCRC546800	6k8/2	R106
1	FCRC512200	2.2/2	R107
1	FCRC512200	2.2/2	R108
1	FCRY000300	W39/8	R109
1	FCRY000300	W39/8	R110
1	FCRY000300	W39/8	R111
1	FCRY000300	W39/8	R112
1	FCRY000300	W39/8	R113
1	FCRY000300	W39/8	R114
1	FCPONT0150	15mm	W100
1	FCBRID18R0	Brida T18	WA100
1	FCBRID18R0	Brida T18	WA101
1	FC2C010450	1010.04.50	WI101
1	FC2C011450	1011.04.50	WI102
1	FC2C010450	1010.04.50	WI103
1	FC2C011450	1011.04.50	WI104

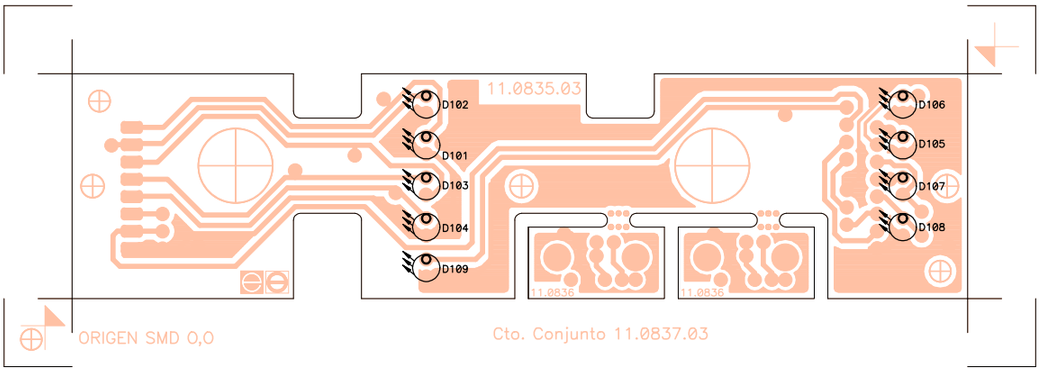


ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0837-03.00 schema no: 10.0532-01.02 insertion file no:	side: Component view: Reference	
number: 33.0549	version: 01.02	project n: EP04-99	title: Leds+Potentiometers Ct.
drawn by: M. Amoros	date: 001016	product n: PAM6100/4100	
		approved: Angel Sanuy	

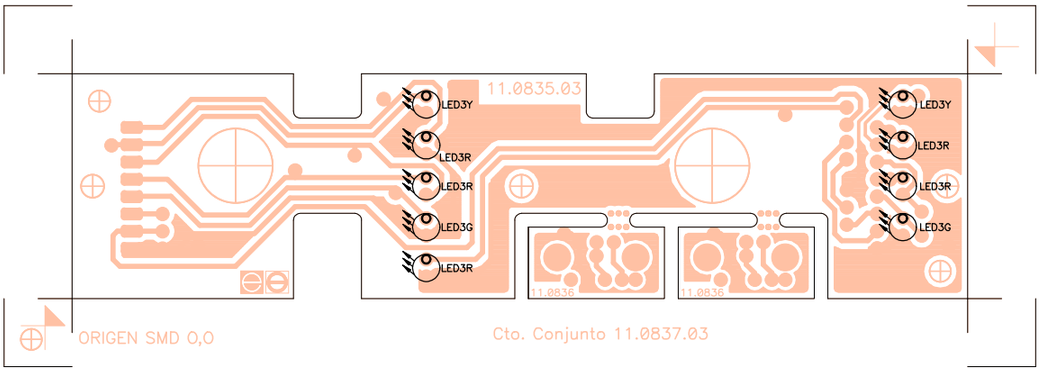


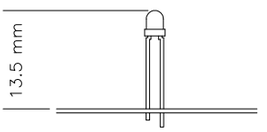
Note: Leds mounted on the bottom or solder side

ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0837-03.00 schema no: 10.0532-01.02 insertion file no:	side: Component view: Value	
number: 33.0550 / version: 01.02	project n: EP04-99	title: Leds+Potentiometers Ct.	
drawn by: M. Amoros / date: 001016	product n: PAM6100/4100		
	approved: Angel Sanuy		



ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0837-03.00 schema no: 10.0532-01.02 insertion file no:		side: Solder view: Reference
	project n: EP04-99	title: Leds+Potentiometers Ct.	
number: 33.0561	version: 01.02	product n: PAM6100/4100	
drawn by: M. Amoros	date: 001114	approved: Angel Sanuy	



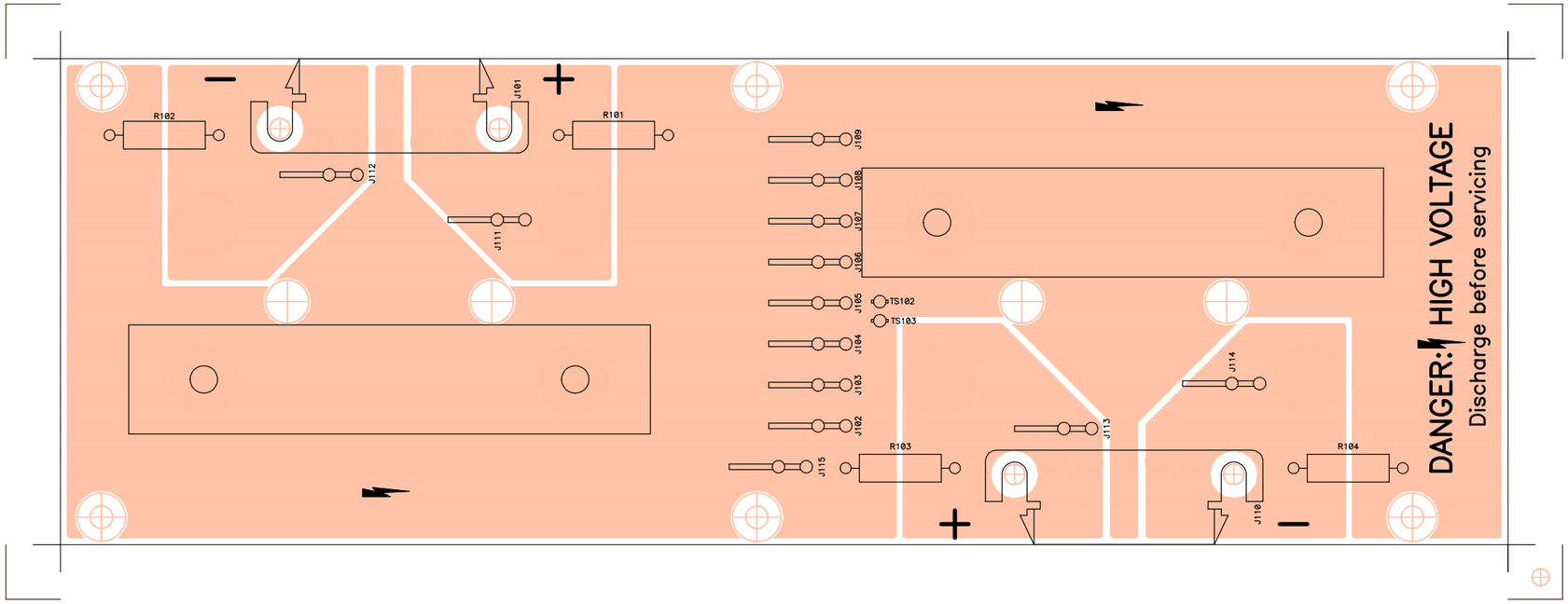


Note: Leds mounted on the bottom or solder side

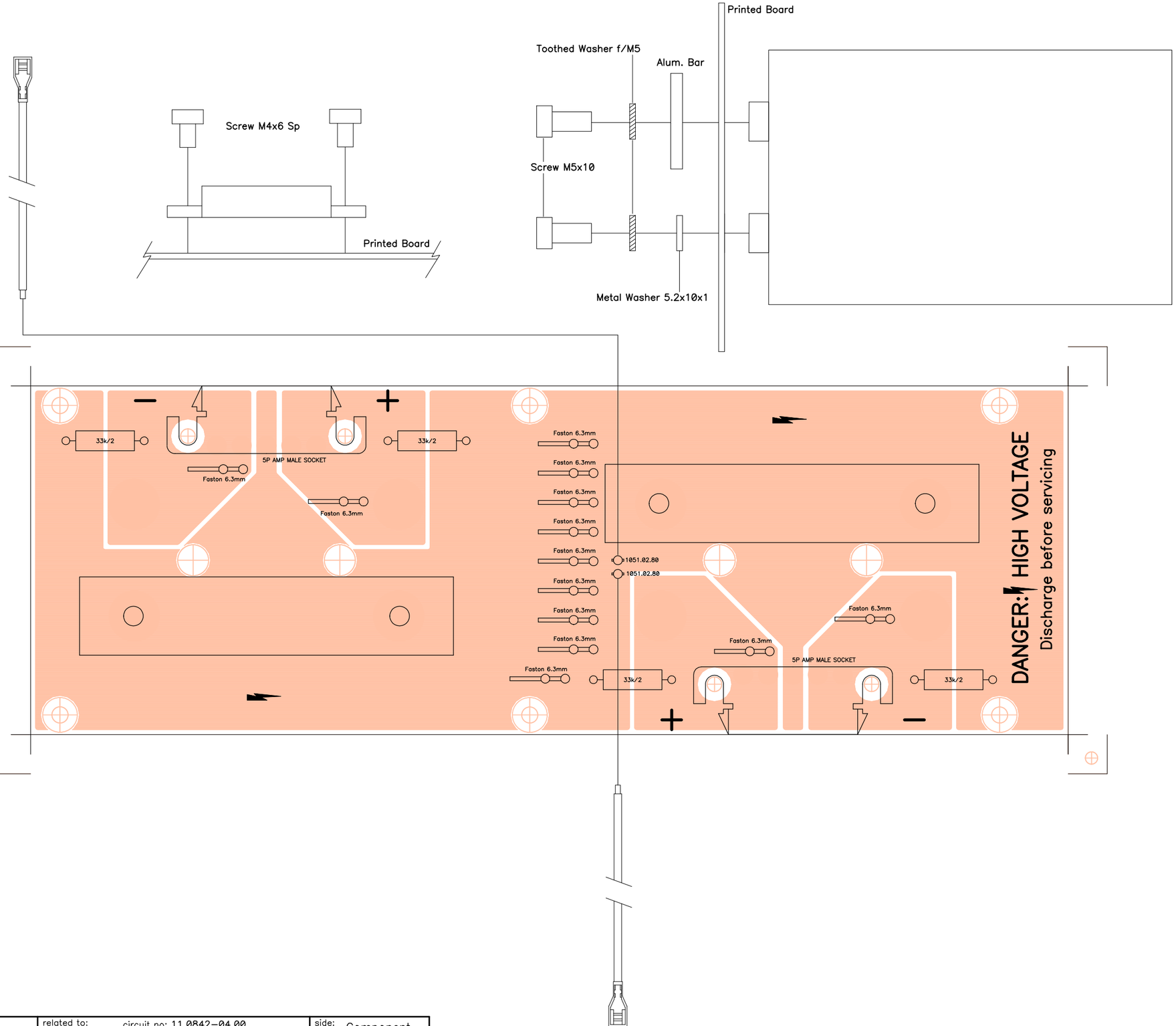
ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.		related to: circuit no: 11.0837-03.00 schema no: 10.0532-01.02 insertion file no:	side: Solder view: Value	
number: 33.0562	version: 01.02	project n: EP04-99	title: Leds+Potentiometers Ct.	
drawn by: M. Amoros	date: 001114	product n: PAM6100/4100 approved: Angel Sanuy		

PARTS LIST: PRINTED CIRCUIT 11.0837.03.00

Q	Code	Description	Reference
1	FCCIPAM837	11.0837 Printed Board	CI102
1	FCLED300RO	LED3R	D101
1	FCLED300AM	LED3Y	D102
1	FCLED300RO	LED3R	D103
1	FCLED300VE	LED3G	D104
1	FCLED300RO	LED3R	D105
1	FCLED300AM	LED3Y	D106
1	FCLED300RO	LED3R	D107
1	FCLED300VE	LED3G	D108
1	FCLED300RO	LED3R	D109
1	FCCTM00030	B3B-EH-A	J101
1	FCCTM00030	B3B-EH-A	J102
1	FCPR110040	10kRD	R101
1	FCPR110040	10kRD	R102
1	FCPONT0200	20mm	W101
1	FC4I005070	1005.00.70	WI101
1	FC4I005070	1005.00.70	WI102
1	FC4J006650	1006.06.50	WI104
1	FC4N049400	1049.04.00	WI106
1	FC4N049350	1049.03.50	WI107



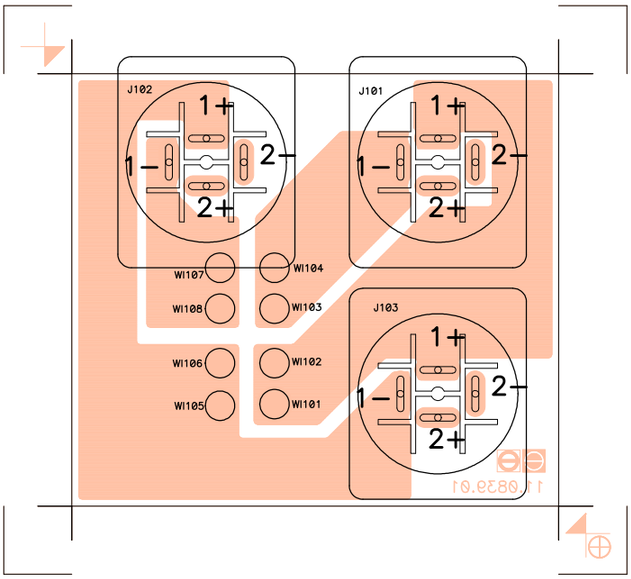
ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.		related to: circuit no: 11.0842-04.00 schema no: 10.0537-01.03 insertion file no:	side: Component view: Reference	
		project n: EP04-99	title: Capacitors Ct.	
number: 33.0563	version: 01.03	product n: PAM6100/4100		
drawn by: M. Amoros	date: 001115	approved: Angel Sanuy		



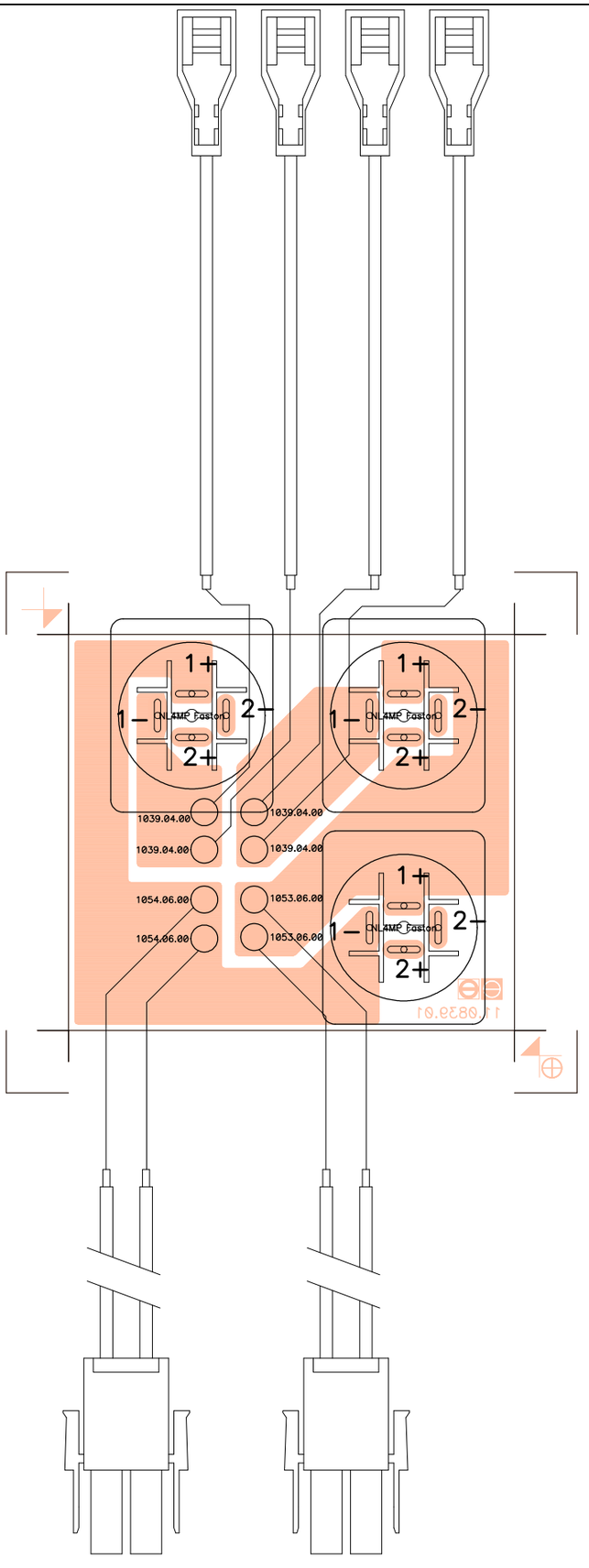
ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0842-04.00 schema no: 10.0537-01.03 insertion file no:	side: Component view: Value	
project n: EP04-99		title: Capacitors Ct.	
number: 33.0564	version: 01.03	product n: PAM6100/4100	
drawn by: M. Amoros	date: 001115	approved: Angel Sanuy	

PARTS LIST: PRINTED CIRCUIT 11.0842.02.00

Q	Code	Description	Reference
1	FCCE341400	12.000u/170	C101
1	FCCE341400	12.000u/170	C102
1	FCCE341400	12.000u/170	C103
1	FCCE341400	12.000u/170	C104
1	FCCIPAM842	11.0842 Printed Board	CI101
1	FCCTAMP150	5P AMP MALE SOCKET	J101
1	FCTERM1000	Faston 6.3mm	J102
1	FCTERM1000	Faston 6.3mm	J103
1	FCTERM1000	Faston 6.3mm	J104
1	FCTERM1000	Faston 6.3mm	J105
1	FCTERM1000	Faston 6.3mm	J106
1	FCTERM1000	Faston 6.3mm	J107
1	FCTERM1000	Faston 6.3mm	J108
1	FCTERM1000	Faston 6.3mm	J109
1	FCCTAMP150	5P AMP MALE SOCKET	J110
1	FCTERM1000	Faston 6.3mm	J111
1	FCTERM1000	Faston 6.3mm	J112
1	FCTERM1000	Faston 6.3mm	J113
1	FCTERM1000	Faston 6.3mm	J114
1	FCTERM1000	Faston 6.3mm	J115
1	FCRC553300	33k/2	R101
1	FCRC553300	33k/2	R102
1	FCRC553300	33k/2	R103
1	FCRC553300	33k/2	R104
1	FCT1005010	Screw M5x10	SC100
1	FCT1005010	Screw M5x10	SC101
1	FCT1005010	Screw M5x10	SC102
1	FCT1005010	Screw M5x10	SC103
1	FCT1005010	Screw M5x10	SC104
1	FCT1005010	Screw M5x10	SC105
1	FCT1005010	Screw M5x10	SC106
1	FCT1005010	Screw M5x10	SC107
1	FCT8040060	Screw M4x6 SPAN	SC108
1	FCT8040060	Screw M4x6 SPAN	SC109
1	FCT8040060	Screw M4x6 SPAN	SC110
1	FCT8040060	Screw M4x6 SPAN	SC111
1	FC0C051280	1051.02.80	TS102
1	FC0C051280	1051.02.80	TS103
1	FCMECPM510	Alum. Bar	WA100
1	FCMECPM510	Alum. Bar	WA101
1	FCARDE0500	Toothed Washer f/M5	WA102
1	FCARDE0500	Toothed Washer f/M5	WA103
1	FCARDE0500	Toothed Washer f/M5	WA104
1	FCARDE0500	Toothed Washer f/M5	WA105
1	FCARDE0500	Toothed Washer f/M5	WA106
1	FCARDE0500	Toothed Washer f/M5	WA107
1	FCARDE0500	Toothed Washer f/M5	WA108
1	FCARDE0500	Toothed Washer f/M5	WA109
1	FCARM52000	Metal Washer 5.2x10x1	WA110
1	FCARM52000	Metal Washer 5.2x10x1	WA111
1	FCARM52000	Metal Washer 5.2x10x1	WA112
1	FCARM52000	Metal Washer 5.2x10x1	WA113



ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.		related to: circuit no: 11.0839-01.01 schema no: 10.0533-01.01 insertion file no:	side: Component view: Reference	
number: 33.0567	version: 01.01	project n: EP04-99	title: Speak On Ct.	
drawn by: M. Amoros	date: 001117	product n: PAM6100/4100		
		approved: Angel Sanuy		



ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0839-01.01 schema no: 10.0533-01.01 insertion file no:		side: Component view: Value
	project n: EP04-99	title: Speak On Ct.	
number: 33.0568 / version: 01.01	product n: PAM6100/4100		
drawn by: M. Amoros / date: 001117	approved: Angel Sanuy		

PARTS LIST: PRINTED CIRCUIT 11.0839.01.00

Q	Code	Description	Reference
1	FCCIPAM839	11.0839 Printed Board	CI101
1	FCBASS0100	NL4MP Faston	J101
1	FCBASS0100	NL4MP Faston	J102
1	FCBASS0100	NL4MP Faston	J103
1	FC0H053600	1053.06.00	WI101-2
1	FC0H039400	1039.04.00	WI103
1	FC0H039400	1039.04.00	WI104
1	FC0H039400	1039.04.00	WI105-6
1	FC0H039400	1039.04.00	WI107
1	FC0H039400	1039.04.00	WI108

Assembled Amplifier.

PRELIMINARY:

- Set the MONO-STEREO selection switch to STEREO.
- Check the *Ground Link* switch.
- Keep the subsonic filter switch, at the input stage circuitry, set to OFF.
- Be sure that the correct cable types are used.
- Connect the power amplifier mains plug to a 230Vac variac output, and leave it on its 0V position.
- Keep an ammeter nearby (DC 10A range), in order to verify the current consumption adjustments.

VERIFICATION:

- Switch the tested unit's Power main switch to ON, without applying any input signal.
- Remove the protection fuse of the positive power supply, and place instead a 10A DC ranged ammeter. Keep the module's output signal insight by using an oscilloscope, selecting a 10V/div vertical scale and 5ms/div time base. **Note:** In case of doubt, if you only want to feed one channel while verifying the current consumption, simply do not insert the mains protection fuse in the other channel.
- Slowly increase the variac's output until it reaches the unit's nominal mains voltage, and if an excessive current consumption is detected (current flow above 800mA), stop the testing procedure inmediately and try to identify the failure. Once the nominal mains voltage is reached, wait for a minute and verify that the current consumption adjustments remain correct: 300mA for PAM6100, 190mA for PAM4100. If this values have changed, rectify them. Once adjusted, seal the potentiometer with fixing lacquer.

  Caution! The unit's power supply will be charged! Before removing the ammeter and replacing the fuse, it is strongly recommended to completely discharge the unit's power supply by applying a 1KHz 0dB input signal and connecting 4Ω load impedances to the amplifier's output, and reduce the unit's mains voltage to 0V by turning down the variac's output.

- Repeat this procedure on the other channel.
- Once the adjustments are done, turn on again the unit by switching over its main power switch, and verify the STANDBY period lasts approximately 10 seconds, the *clip* and *protec* indicating LED's light up, and also the cooling fans run up to their maximum running speed.
- Verify both XLR-type inputs, the *STACK-OUT* outputs, their correspondent *signal present* indicator LED's and also check the correct functioning of the input signal attenuators, as their actuation range should be from -∞dB to 0dB.
- Verify the unit's output power when working at nominal mains voltage (230Vac):

PAM6100	1700W	82,5V on 4Ω
PAM4100	1100W	66,3V on 4Ω

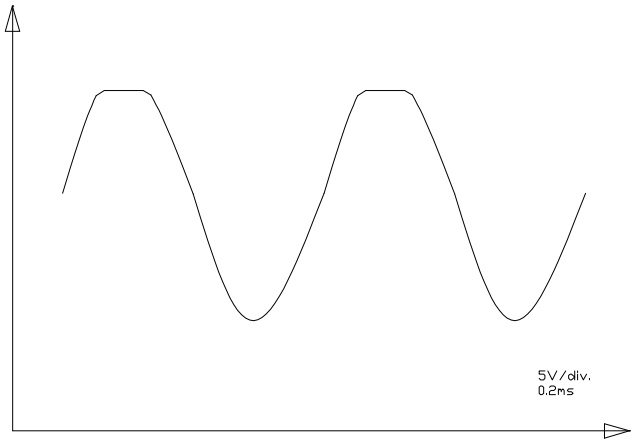
- To verify the ANTICLIP function, increase the input signal level above 0dB and check that the clipping output signal is smoothened. Check the CLIP indicator LED's are lit, and, when reducing the output signal level in 0'5 or 1dB, the CLIP LEDs turn off.
- Verify the unit's bandwith curve, wich, with a 2KHz 0'5V input signal, should be linear between 20Hz and 20KHz without inducing any distortion to the output signal. Also check that when applying an input signal up to 50KHz, the unit's output level only decreases in 1 or 2 dB, and no visible distortion is observed.
- Verify the MONO operating mode. Switch over the MONO-STEREO selector to MONO, check that both channels are achieving the same gain level when not loaded. In order to verify this, apply a

1KHz 0dB input signal to channel I and, with the volume potentiometer turned up to its maximum, check with a millivoltmeter that at TP102 a 0dB gain level is obtained. If not, adjust R125. Once channel I is fixed to 0dB, verify TP102 at channel II and proceed to adjust if gain level is not 0dB.

- Connect a 8 load impedance to the speakon-type MONO output, and verify the achieved output power levels:
  3500W 167V for PAM6100
  2200W 132,6V for PAM4100
  Only channel I's input potentiometer should be active. Verify that the amplifier reaches its clipping state without troubles. Return the unit to its STEREO operating mode.
- Connect a load impedance formed by a 4 resistor shunted to a 2 2F capacitor, and apply a 1KHz square waveform input signal. Using an oscilloscope, observe the output signal, and increase the input signal level until the displayed signal starts clipping. At the flat level areas of the squared waveform, only two or three ringings should be detected.
- Verify the SUBSONIC FILTER's performance. Check the amplifier's output level at 40Hz, 30Hz and 20Hz, depending on the selected switch position, is reduced in 3 dB when comparing with the measured level without subsonic filtering. Leave the selection switch on the 20Hz position.
- Verify the THERMAL protection circuitry. Short the LM35D thermal probe pins 1 and 2, and verify that the relay releases and closes, while the *THERMAL* and *PROTEC* LEDs indicators light up, as the output signal is cutted off and the cooling fan increases its speed untill it reaches maximum airflow.
- Repeat this procedure on the other module.

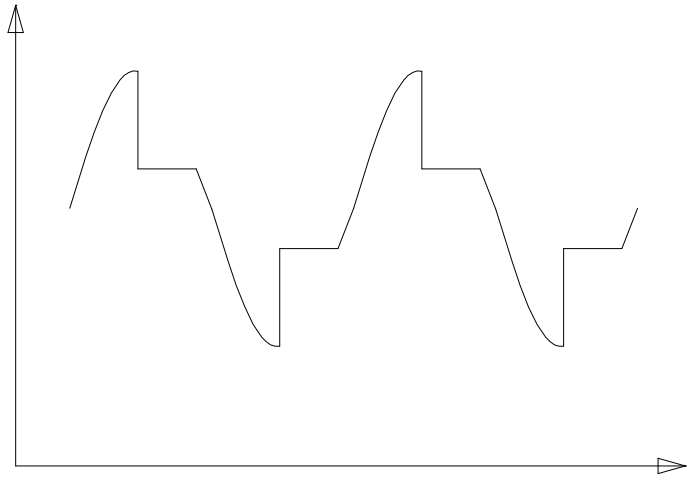
PROTECTIONS

- Adjust the signal generator to deliver a 1KHz 0'8Vrms signal, and leave it ON.
- Turn down the power stage volume potentiometer to its minimum.
- Connect a 0'5 load impedance.
- Connect the oscilloscope test probes parallel to the load impedance. Select a 5V/div vertical scale, and a 0'2ms/div time base.
- Turn up quickly the volume potentiometer. Depending on wich branch is working, the positive or negative half of the signal cycle is clipped. Verify that no ringings appear when the protection is triggered.
- The output signal should be somehow similar to the picture shown in the figure (from 15Vpp to 20Vpp). There are two protection circuitries, one on the positive and another on the negative branches of the unit. In case one of this protections does not actuate properly, the output signal will appear completely assymetric. The level of the half-cycle wich is not being protected will not be limited, thus allowing to find out wich branch is failing. It could also happen that none of the protections are triggered, this can be detected as the measured signal levels delivered to the load impedance are not being compressed. In case this happens, inmediately stop the testing procedure. This may occur when the unit is receiving too low mains voltage (at least 240V, 250V recommended), or if the signal level is increased too slowly through the potentiometer.
- After a period between 5 and 10 seconds is elapsed since the protection circuitry has triggered, the module should switch over into PROTECT operating mode. This is, the relay closes, the PROTECT indicator LED lights up, output signal is cutted off, and the 10 seconds lasting STANDBY cycle is started.
- Wait untill the STANDBY cycle ends, and allow the unit to repeat the process.
- Turn off the signal generator, output level set to minimum.



DC OUT

- In order to run this test, do not connect any load impedance.
- Adjust the signal generator to deliver a signal with a frequency below 5Hz, and select the 3V scale output level.
- Connect the oscilloscope to the unit's output, 5V/div vertical scale, 20ms/div time base. Use a 10x attenuating test probe.
- Turn on the signal generator. Increase its output level untill the thyristor starts actuating, and the observed signal becomes the typical sawed sine wave. Use the oscilloscope's memory bank in order to observe carefully this fact.



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.

BURNING TEST

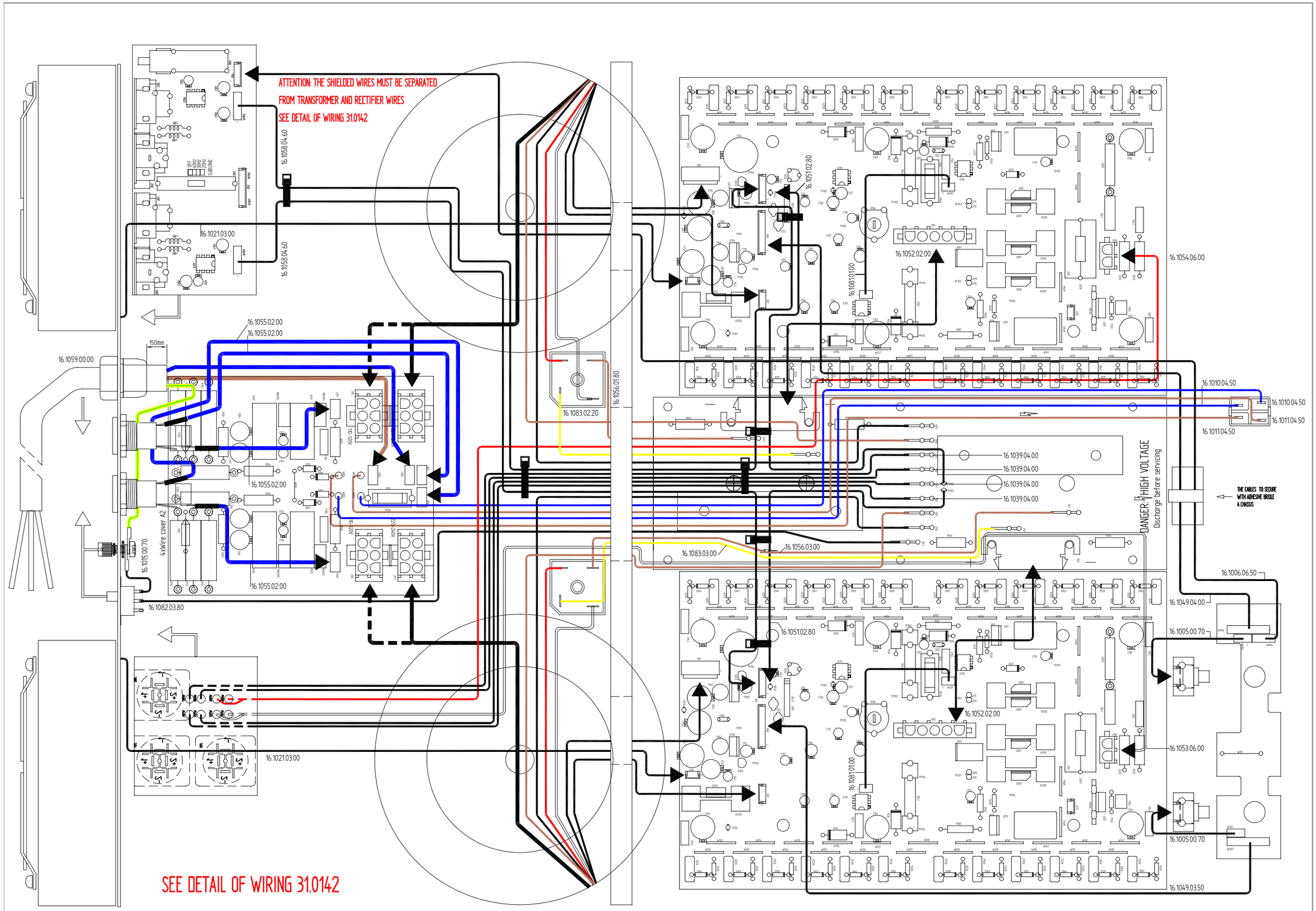
Leave the tested units connected to the burning verifyer, while performing their burning test. If testing PAM 6100, do not connect more than 4 power stages to each column. If testing PAM 4100, a maximum of 7 units can be connected simultaneously to each column.

VERIFICATION USING MUSIC

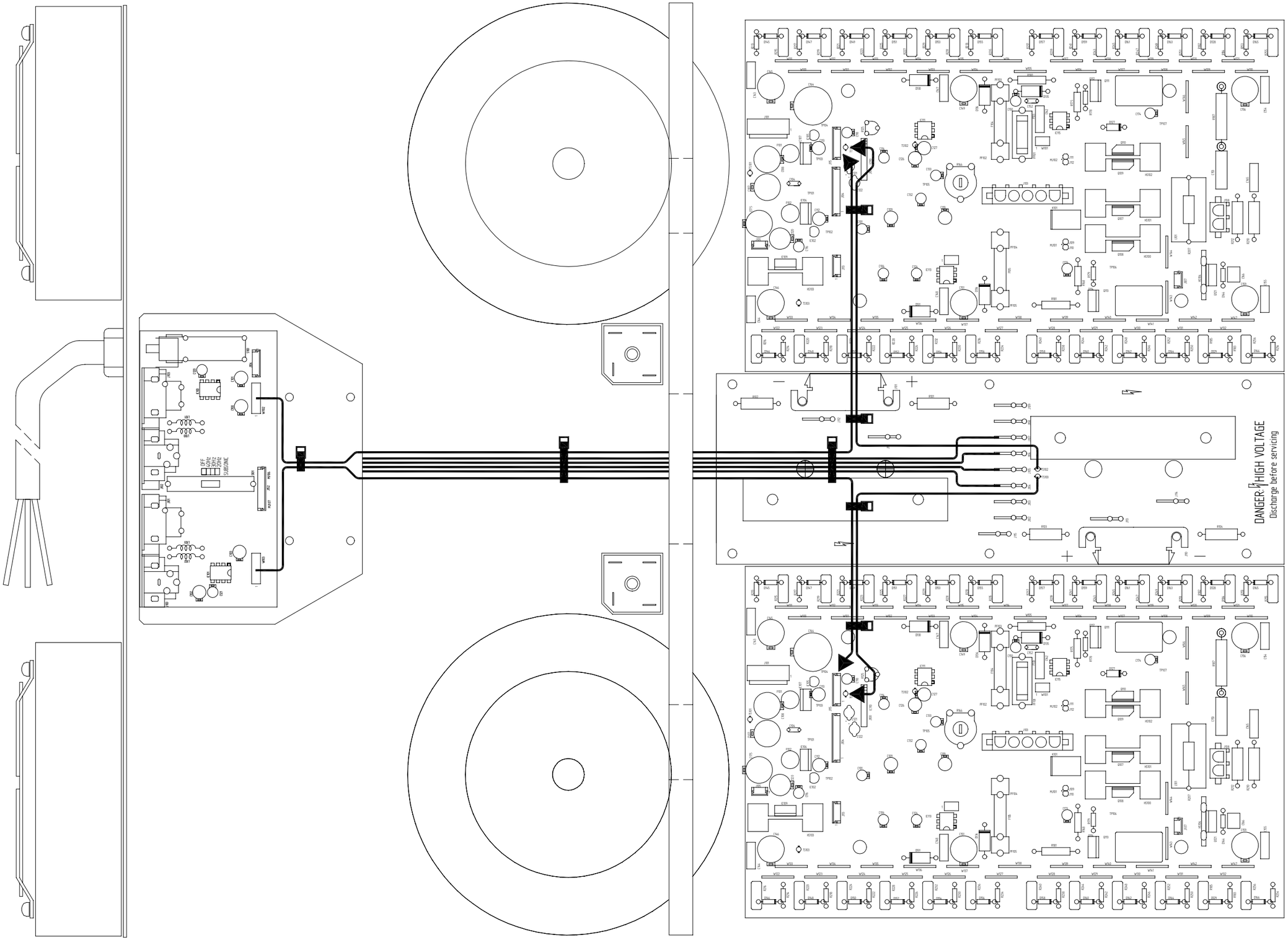
Verify the unit's sound quality, wich should be distortion- and noise-free. Once the unit is turned in and its STANDBY cycle time has elapsed, the output relays release, but no annoying noise is heard through the loudspeakers. Also check that all potentiometers can run smoothly their whole sweep, without noise and crisperings. At their minimum position, check that output signal is completely cutted off. To ensure that all electrical junctions are well-fixed, hit the tested unit against your working table, obviously without damaging its outer presentation. Verify all in- and outputs. Short the output terminals while carrying amplified signal, wait approximately 5 or 10 seconds, after wich the unit should perform a general reset. Verify the PROTEC indicating LED lights up, the output signal is cutted off, and the STANDBY cycle is correctly done. Once the short-circuit is removed, the unit recovers normal functioning.

	PAM4100	PAM6100
Output Power (*) WRMS@ 1kHz 1% THD		
2 Ω Peak Power	3650 W	5900 W
2 Ω Stereo	1580 W	2600 W
4 Ω Stereo	1100 W	1750 W
8 Ω Stereo	650 W	1050 W
8 Ω Bridged	2200 W	3500 W
16 Ω Bridged	1300 W	2100 W
Frequency Response @ max. Output power (-1dB)	6Hz-90kHz	6Hz-95kHz
Subsonic filter Butterworth 2° order (-3dB)	20 Hz, 30 Hz, 40 Hz, OFF	
Harmonic Dist. + Noise @ 1kHz Max. power	<0.07%	<0.07%
Intermod. Dist. (50Hz & 7kHz 4:1 ratio) @ nom. Out power	<0.08%	<0.08%
TIM 100	<0.04%	<0.04%
Signal/Noise ratio 20Hz-20kHz ref. 1W/4Ω	>84 dB	>84 dB
Signal/Noise ratio 20Hz-20kHz nom. power @ 4Ω	>114 dB	>116 dB
Damping factor @ 1kHz/8Ω	>320	>370
Slew Rate	±125 V/μs	±135 V/μs
Channel Crosstalk	>74 dB	>74 dB
Input CMRR @ 1kHz (dB below nom power @ 4Ω)	>64 dB	>70 dB
Input sensitivity / impedance	0dBV / >20kΩ	
Anticlip	Intelligent A²SP	
Input connector	XLR-3 balanced	
Output connector	SPEAK-ON	
Power consumption @ max. Output / 4Ω	4000VA	6260VA
Front panel dimensions w x h	482.6x132.5mm	
Chassis dimensions w x h x d	440x132.5x523mm	
Weight	26kg	31.5kg

(*) Both channels operating. Peak power: one channel operating



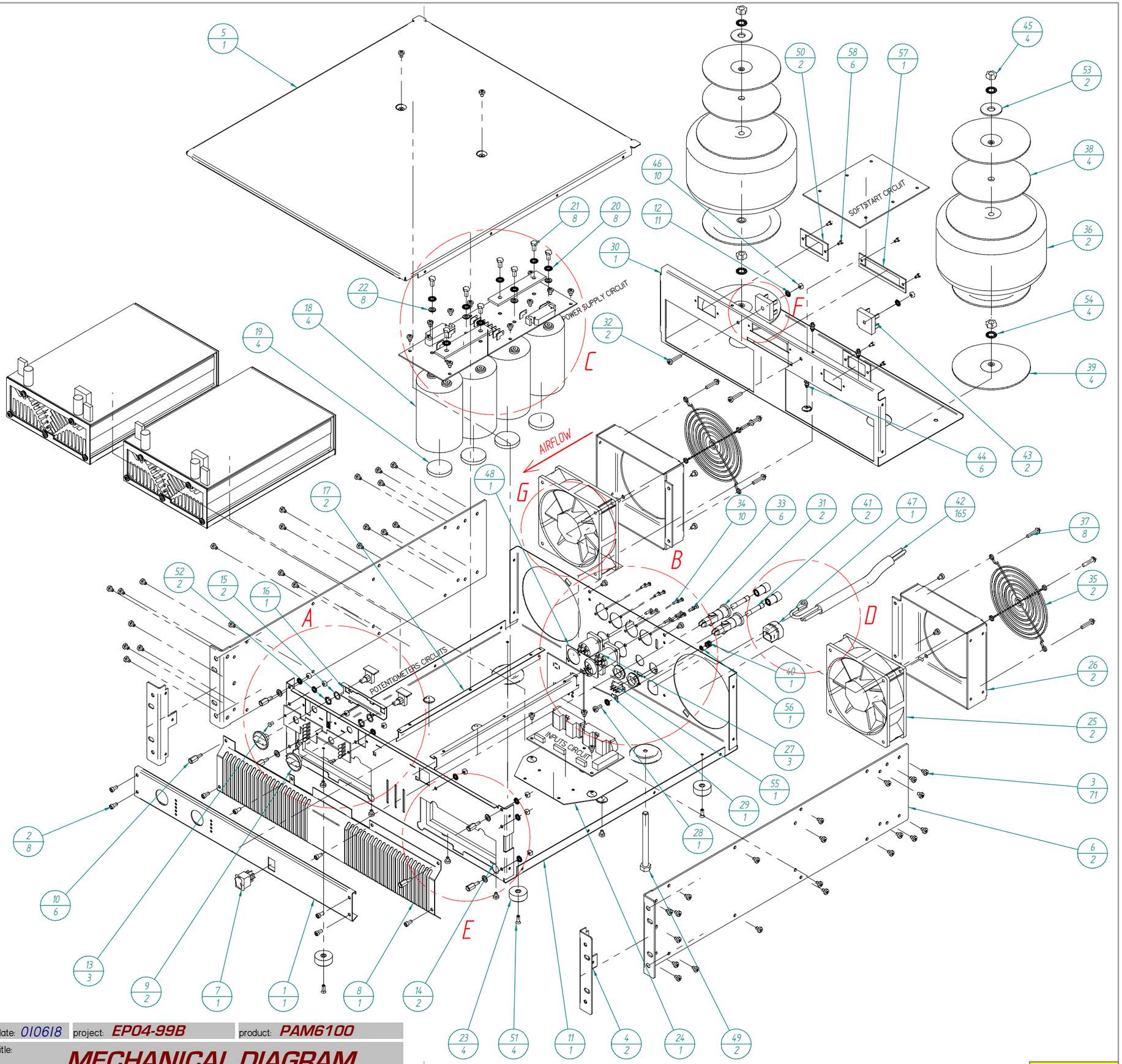
ECLER	drawn: J Colomines	date: 010515	project: EP04-99	product: PAM6100/4100
number: 31.0133 version 01.02	approved:	title: WIRING DIAGRAM		



ECLER	drawn: J Colomines	date: 010327	project: EP04-99	product: PAM6100/4100
number: 31.0142 version 01.00	approved:	title:	WIRING DIAGRAM DETAILS	

N°	Qty	ECLER Code	Description
1	1	FCMECPM600	PAM FRONT PANEL
2	8	FCTALL4080	SCREW DIN912 M4x8 ALLEN
3	71	FCT8040060	SCREW DIN 7985 M4x6 SPANLO B
4	2	FCMECPM660	LEFT/RIGHT FRONTAL EAR
5	1	FCMECPM570	TOP COVER EP04-99
6	2	FCMECPM520	LEFT/RIGHT AMPLIFIER SIDE
7	1	FCINTRED20	MAINS SWITCH W/LIGHT
8	1	FCMECPM650	INFERIOR FRONT PANEL
9	2	FCBOTD2400	ROTARY KNOB D24
10	6	FCSEP07000	FRONTPLATE SPACER PAM PL1636
11	1	FCMECPM540	BASE CHASSIS
12	11	FCARDE0400	EXT. TOOTHED WASHER M4
13	3	FCREM13030	NYLON RIVET UNEX1303
14	2	FCGOES6000	FRONTAL ISOLATOR FOAM
15	2	FCARDEPOTE	ROTARY POT. WASHER M9
16	1	FCMECPM580	POTS CIRCUIT MECHANICAL SUPPORT
17	2	FCMECPM610	POWER SUPPLY SUPPORT ANGLE
18	4	FCCE341400	ELECTROLITIC CAPACITOR 12000/170V
19 *	4 *	FCGOES6000 *	POWER SUPPLY CAPACITOR FOAM *
20	8	FCARDE0500	EXT. TOOTHED WASHER M5
21	8	FCT1005010	SCREW DIN933E M5x10 EXZNAM
22	8	FCARM52000	WASHER 5,2X10X1 MET PLAT.
23	4	FCPIE11250	FEET 11x25
24	1	FCMECPM670	INPUT BOARD MECHANICAL SHIELD
25	2	FCVEN12000	FAN 12 VDC 120x120
26	2	FCMECPM500	EXTERIOR FAN REINFORCEMENT
27	3	FCBASS0100	SPEAKON SOCKET MALE 4C
28	1	FCT8504110	SCREW DIN 7500 M4x10 TRILOB W
29	1	GENERIC	GROUND CABLE
30	1	FCMECPM640	MECHANICAL INTERIOR REINFORCEMENT
31	2	FCPORF0655	FUSE HOLDER 6X32 T0347RA AAA
32	2	FCT7004020	SCREW DIN 7985 M4x20 CCZNAM
33	6	FCT5002913	SCREW DIN7982 M2,9x13 CPRCNI
34	10	FCT4002909	SCREW DIN7981F 2,9x9,5 CCRC BLACK
35	2	FCREJ12000	FAN GRILLE 120x120
36	2	FCTFT02200	TOROIDAL TRANSFORMER EP04-99B
37	8	FCT0605120	SCREW 5,1x20
38	4	GENERIC	TRANSFORMER RUBBER DISC
39	4	GENERIC	TRANSFORMER PLATE D60
40	1	FCBOR00300	GROUND TERMINAL 00.1761
41	2	FCFUS60400	FUSE 6x32 16A
42	165	FCCONX0180	MAINS CORD 3X6 (UNITS IN CM)
43	2	FCREC50060	BRIDGE RECTIFIER FB5006
44	6	FCSOPMSP40	PLASTIC SPACER MSP-4N
45	4	GENERIC	TRANSFORMER NUT M8
46	10	FCTUE00400	NUT M4 DIN 934
47	1	FCPC00DM80	BUSHING DM8
48	1	FCMECPM620	SPEAK ON SUPPORT PLATE
49	2	GENERIC	SCREW M8 TRANSFORMER
50	2	GENERIC	EDGE PROTECTION FIBER CIRCUIT
51	4	FCT8040120	SCREW M4x12 DIN965 SPANLO
52	2	FCTUPOT000	ROTARY POT. NUT M9
53	2	FCARM10500	WASHER 10,5X30X2,5 MET ZN
54	4	GENERIC	TRANSFORMER TOOTHED WASHER M8
55	1	FCINTD2000	GROUND LINK SWITCH
56	1	FCARS40000	SEGMENTED WASHER M4 WHITE
57	1	GENERIC	EDGE PROTECTION FIBER CIRCUIT
58	6	FCT8503005	SCREW DIN7500C M3x5 REDUCED HEAD

* 4 UNITS ASSEMBLED IN 2 CODES FCGOES6000

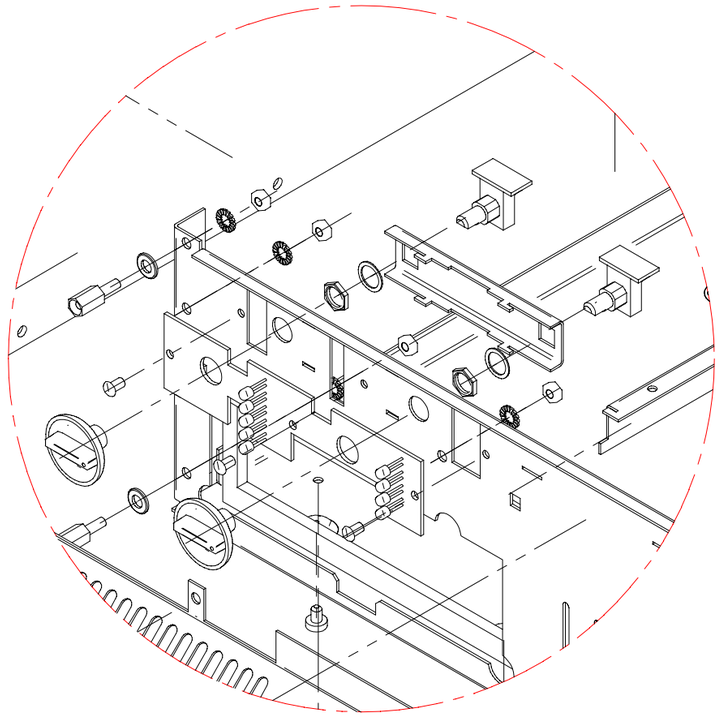


ECLER

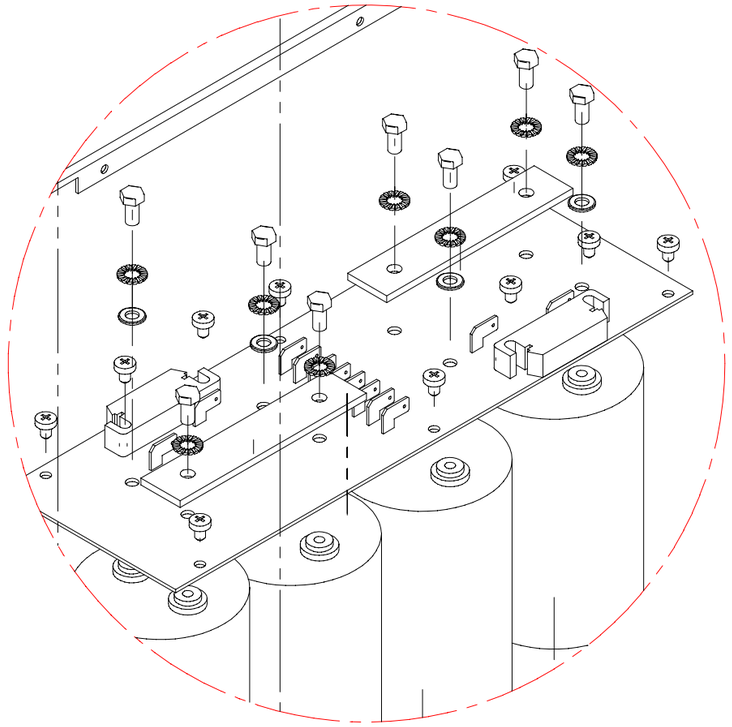
drawn: Jordi Folch | date: 010618 | project: EP04-99B | product: PAM6100

approved: | title: MECHANICAL DIAGRAM

number: 30.0146 | version 01.02

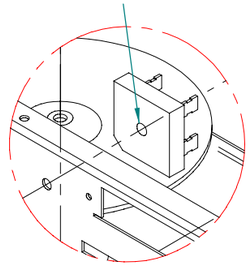


DETAIL A



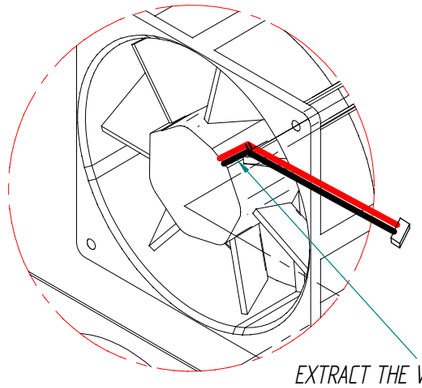
DETAIL C

INSERT THERMAL GREASE
BETWEEN BRIDGE RECTIFIER
AND MECHANICAL SUPPORT



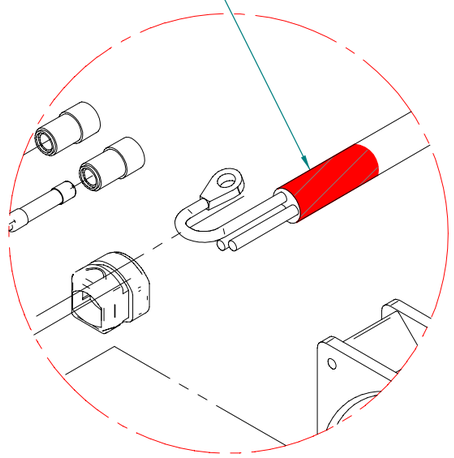
DETAIL F

DETAIL G

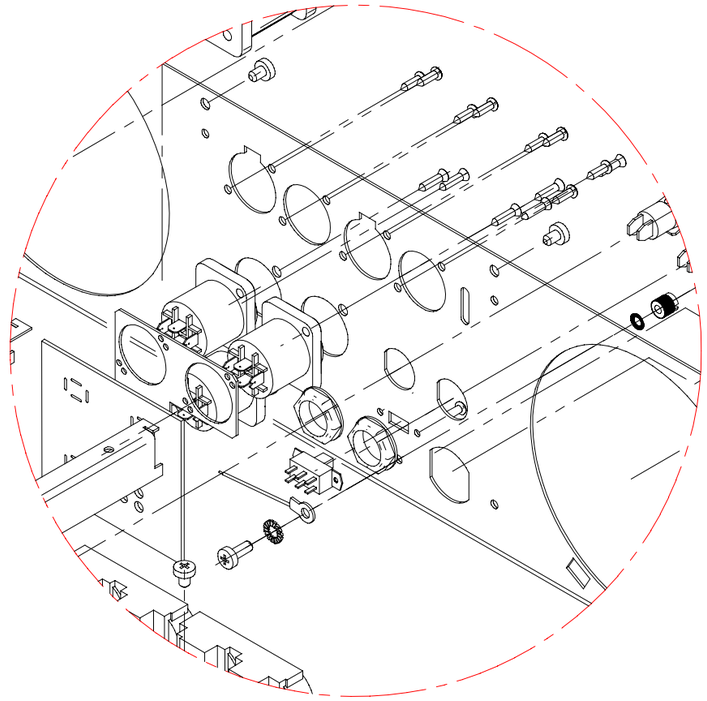


EXTRACT THE WIRES OF FAN
DIRECTLY FROM CENTER

INSERT THE MAINS CORD 25mm
INTO THE BASE CHASSIS

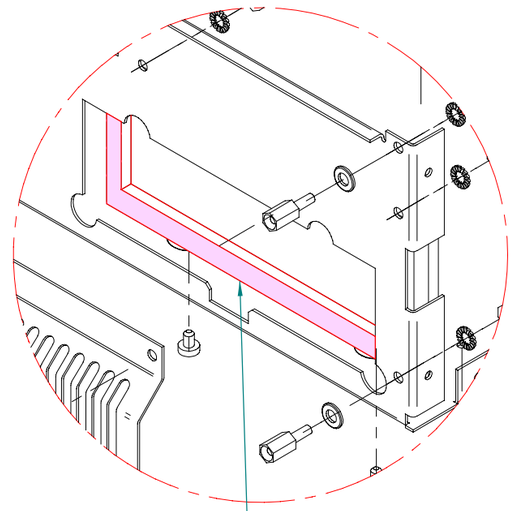


DETAIL D



DETAIL B

DETAIL E



STICK THE FRONTAL ISOLATOR FOAM IN
THE INTERIOR FRONTAL IN BASE CHASSIS.
BE CAREFUL TO COINCIDE PERFECTLY
WITH MECHANICAL WINDOW.

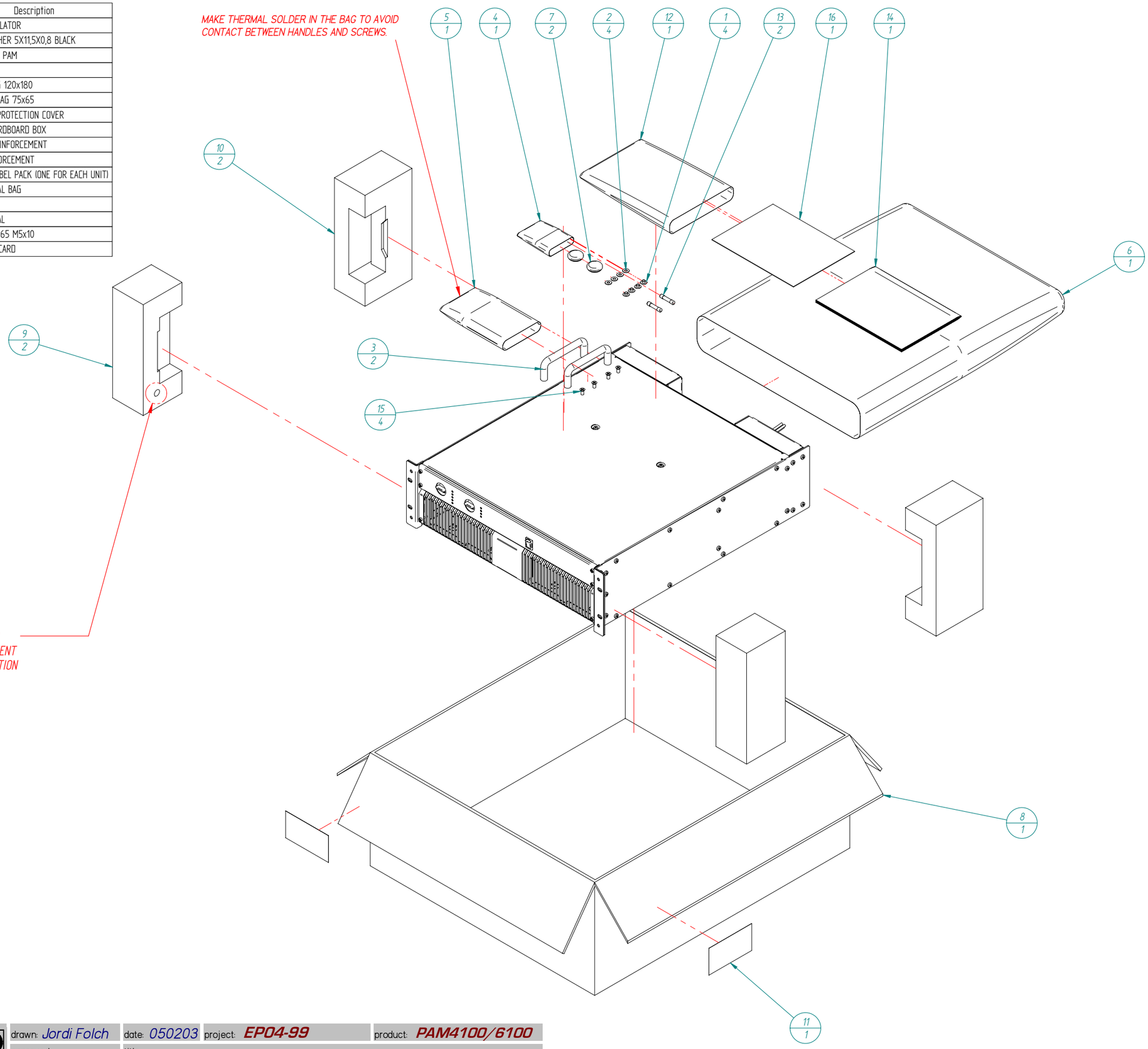
ECLEREE

drawn: Jordi Folch	date: 010619	project: EP04-99B	product: PAM6100	
approved:	title: MECHANICAL DIAGRAM			
number: 30.0146	version 01.02			

N°	Qty	Code	Description
1	4	FCARAT300000	SCREW INSULATOR
2	4	FCARN5000000	METAL WASHER 5X11,5X0,8 BLACK
3	2	FCASAPAM5000	HANDLE FOR PAM
4	1	FCBOL0010000	BAG 60x80
5	1	FCBOL0020000	PLASTIC BAG 120x180
6	1	FCBOLS020000	STANDARD BAG 75x65
7	2	FCBOTD240100	ROT. KNOB PROTECTION COVER
8	1	FCCAJSTA1800	PACKING CARDBOARD BOX
9	2	FCCANT115100	FRONTAL REINFORCEMENT
10	2	FCCANT115200	REAR REINFORCEMENT
11	1	FCETI0951140	PRODUCT LABEL PACK (ONE FOR EACH UNIT)
12	1	FCFUNMAN0000	USER MANUAL BAG
13	2	FCFUS6040000	FUSE 16A
14	1	FCMANPAM2000	USER MANUAL
15	4	FCT200501000	SCREW DIN965 M5x10
16	1	FCTARJG00000	WARRANTY CARD

MAKE THERMAL SOLDER IN THE BAG TO AVOID CONTACT BETWEEN HANDLES AND SCREWS.

MARK TO DISTINGUISH REAR FROM FRONTAL REINFORCEMENT AND TO SHOW THE ORIENTATION OF REAR REINFORCEMENT



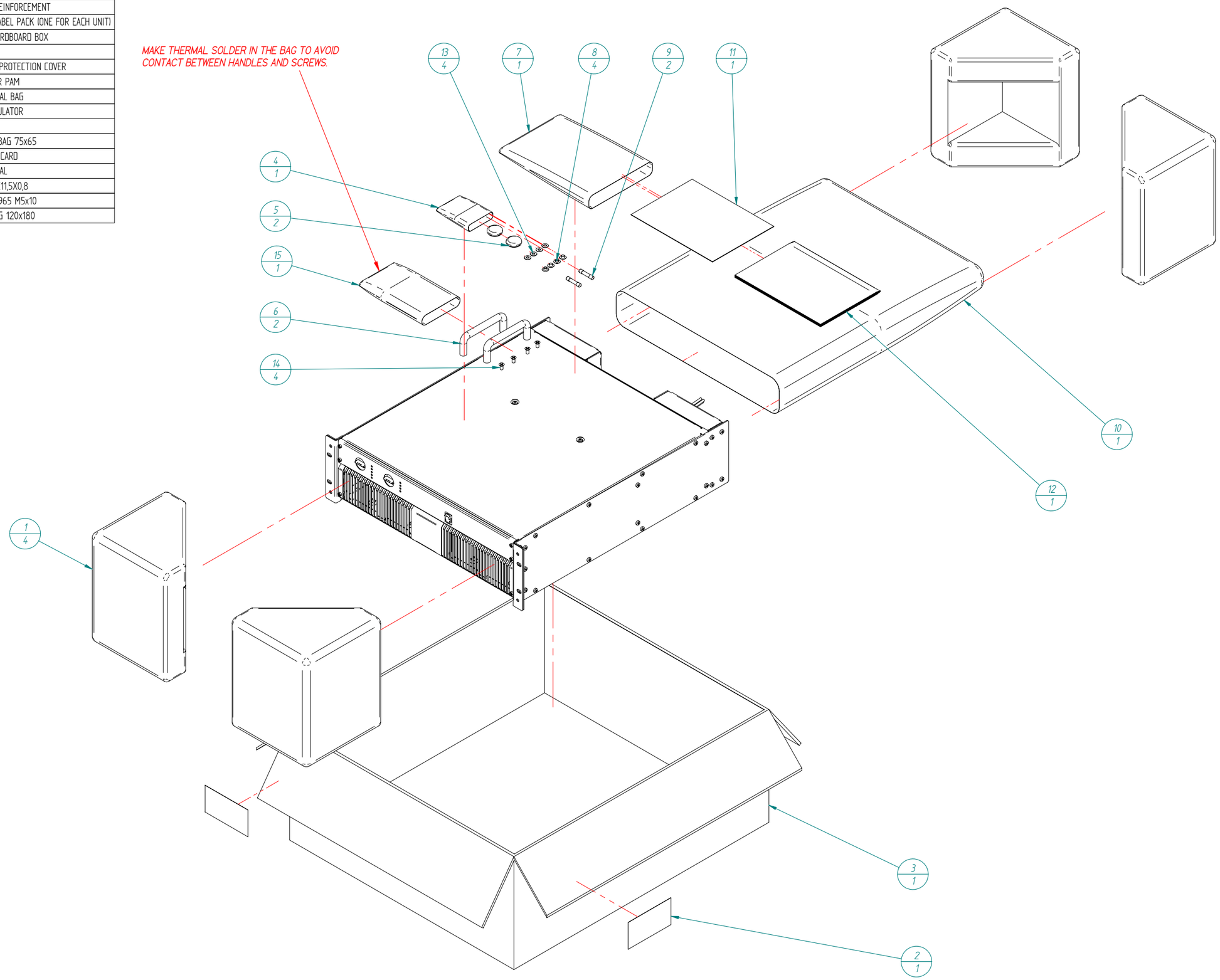
ECLER

drawn: Jordi Folch | date: 050203 | project: EP04-99 | product: PAM4100/6100

approved: | title: **PACKING DIAGRAM**

number: 32.0068 | version 01.04

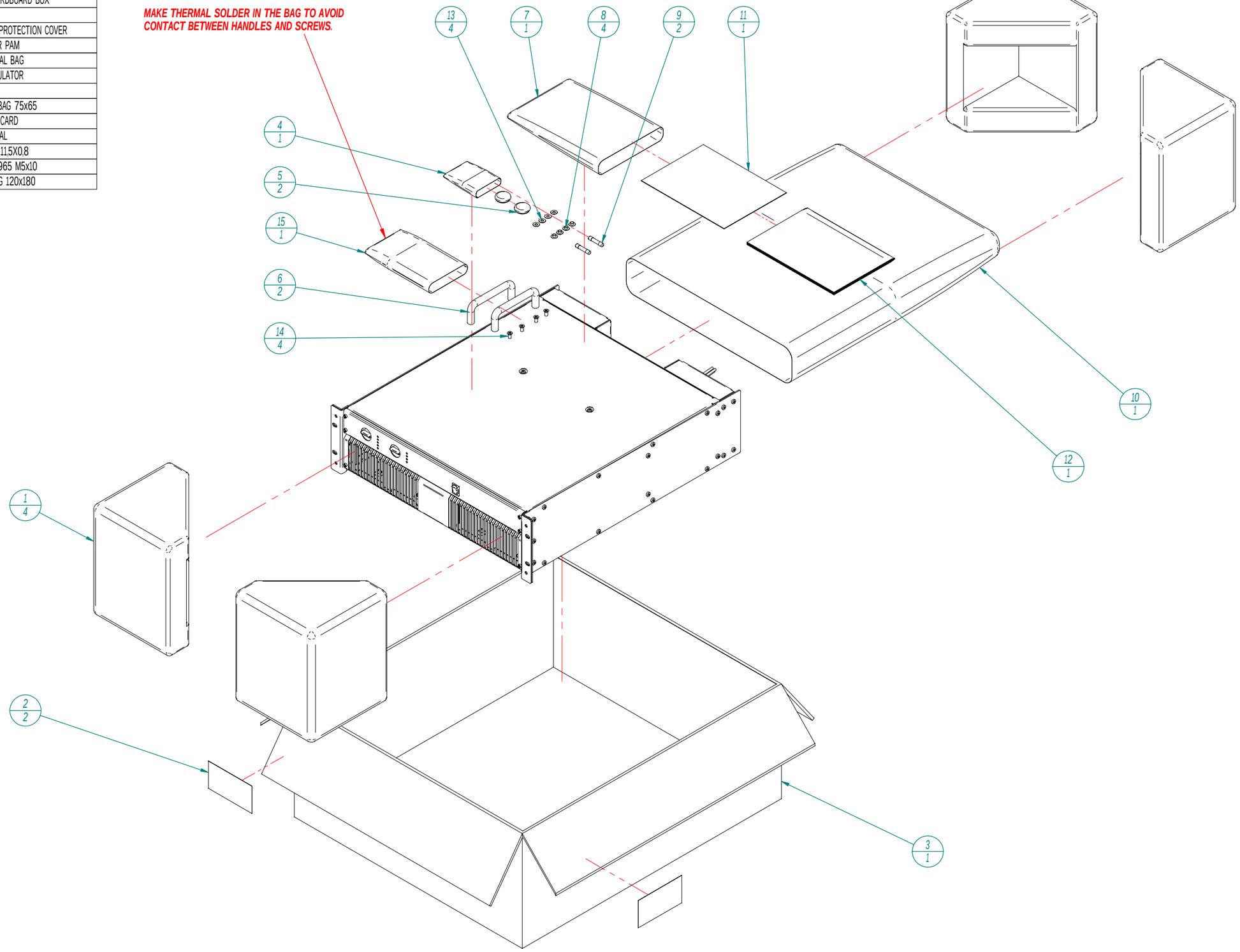
Nº	Qty	ECLER Code	Desc. abreujada
1	4	FCCANT115000	INTERIOR REINFORCEMENT
2	1	FCETI0951140	PRODUCT LABEL PACK (ONE FOR EACH UNIT)
3	1	FCCAJSTA1800	PACKING CARDBOARD BOX
4	1	FCBOL0010000	BAG 60x80
5	2	FCBOTD240100	ROT. KNOB PROTECTION COVER
6	2	FCASAPAM5000	HANDLE FOR PAM
7	1	FCFUNMAN0000	USER MANUAL BAG
8	4	FCARAT300000	SCREW INSULATOR
9	2	FCFUS6040000	FUSE 16A
10	1	FCBOLS020000	STANDARD BAG 75x65
11	1	FCTARJG00000	WARRANTY CARD
12	1	FCMANPAM2000	USER MANUAL
13	4	FCARN5000000	WASHER 5X11,5X0,8
14	4	FCT200501000	SCREW DIN965 M5x10
15	1	FCBOL0020000	PLASTIC BAG 120x180



OLD VERSION

ECLER	drawn: Jordi Folch	date: 040210	project: EP04-99	product: PAM4100/6100
number: 32.0068 version 01.03	approved:	title: PACKING DIAGRAM		

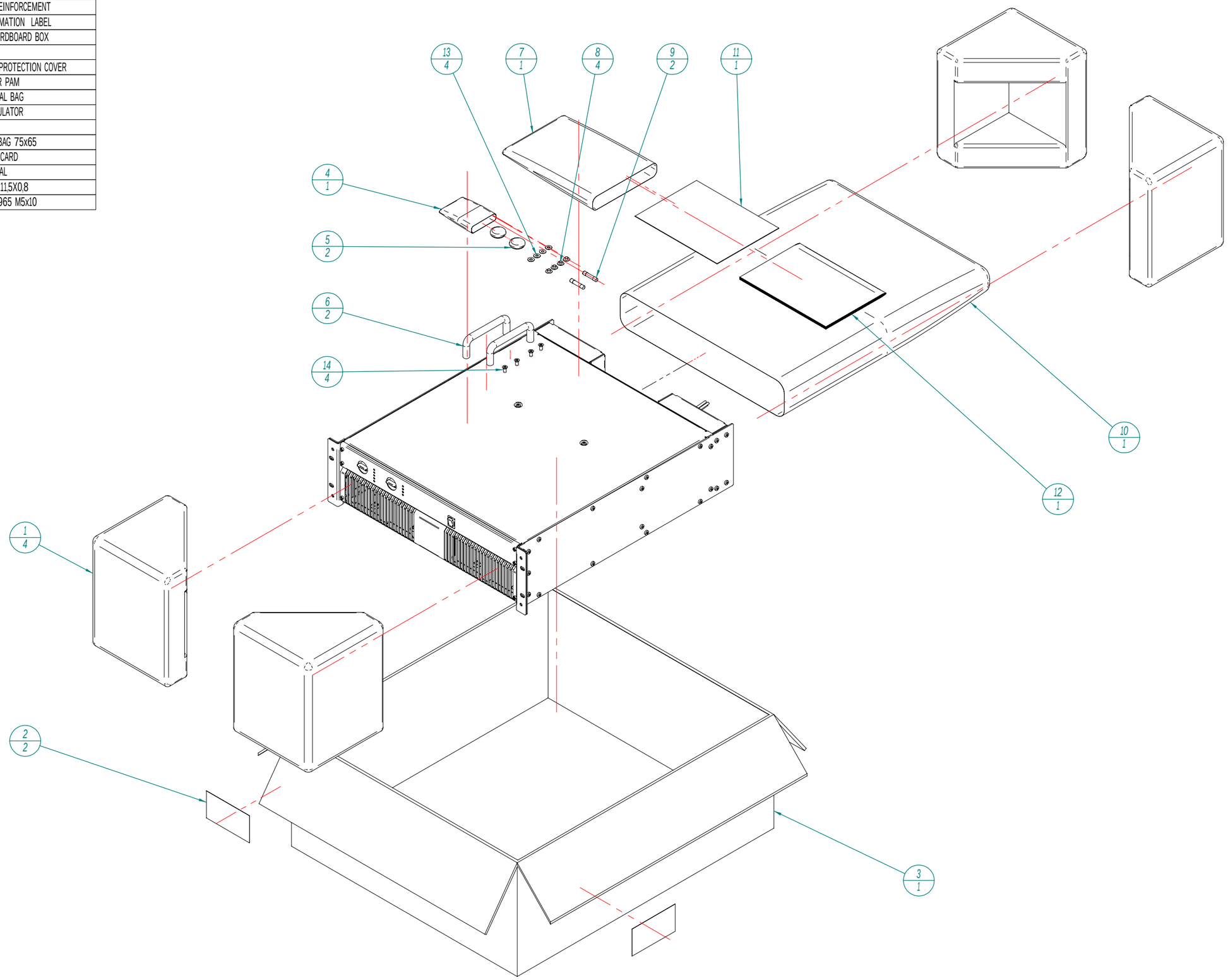
Nº	Qty	ECLER Code	Desc. abreujada
1	4	FCCANT1150	INTERIOR REINFORCEMENT
2	2	FCETICAJA0	UNIT INFORMATION LABEL
3	1	FCCAJSTA18	PACKING CARDBOARD BOX
4	1	FCBOL00100	BAG 60x80
5	2	FCBOTD2401	ROT. KNOB PROTECTION COVER
6	2	FCASAPAM50	HANDLE FOR PAM
7	1	FCFUNMAN00	USER MANUAL BAG
8	4	FCARAT3000	SCREW INSULATOR
9	2	FCFUS60400	FUSE 16A
10	1	FCBOLS0200	STANDARD BAG 75x65
11	1	FCTARJG000	WARRANTY CARD
12	1	FCMANPAM20	USER MANUAL
13	4	FCARN50000	WASHER 5X11.5X0.8
14	4	FCT2005010	SCREW DIN965 M5x10
15	1	FCBOL00200	PLASTIC BAG 120x180



OLD VERSION

ECLER	drawn: Jordi Folch	date: 021204	project: EP04-99	product: PAM4100/6100
number: 32.0068 version 01.02	approved:	title: PACKING DIAGRAM		

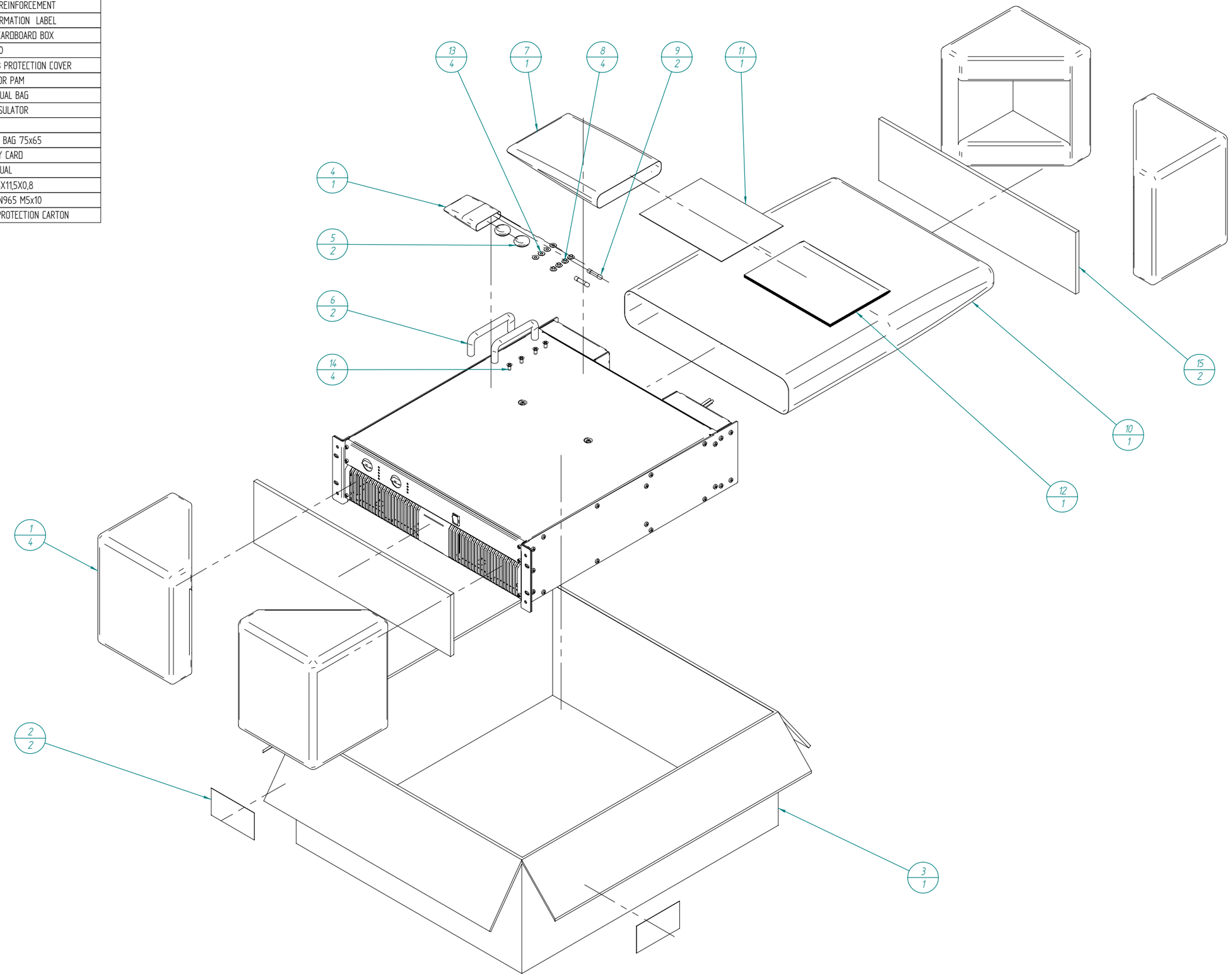
Nº	Qty	ECLER Code	Desc. abreujada
1	4	FCCANT1150	INTERIOR REINFORCEMENT
2	2	FCETICAJA0	UNIT INFORMATION LABEL
3	1	FCCAJSTA18	PACKING CARDBOARD BOX
4	1	FCBOL00100	BAG 60x80
5	2	FCBOTD2401	ROT. KNOB PROTECTION COVER
6	2	FCASAPAM50	HANDLE FOR PAM
7	1	FCFUNMAN00	USER MANUAL BAG
8	4	FCARAT3000	SCREW INSULATOR
9	2	FCFUS60400	FUSE 16A
10	1	FCBOLS0200	STANDARD BAG 75x65
11	1	FCTARJG000	WARRANTY CARD
12	1	FCMANPAM20	USER MANUAL
13	4	FCARN50000	WASHER 5X11.5X0.8
14	4	FCT2005010	SCREW DIN965 M5x10



OLD VERSION

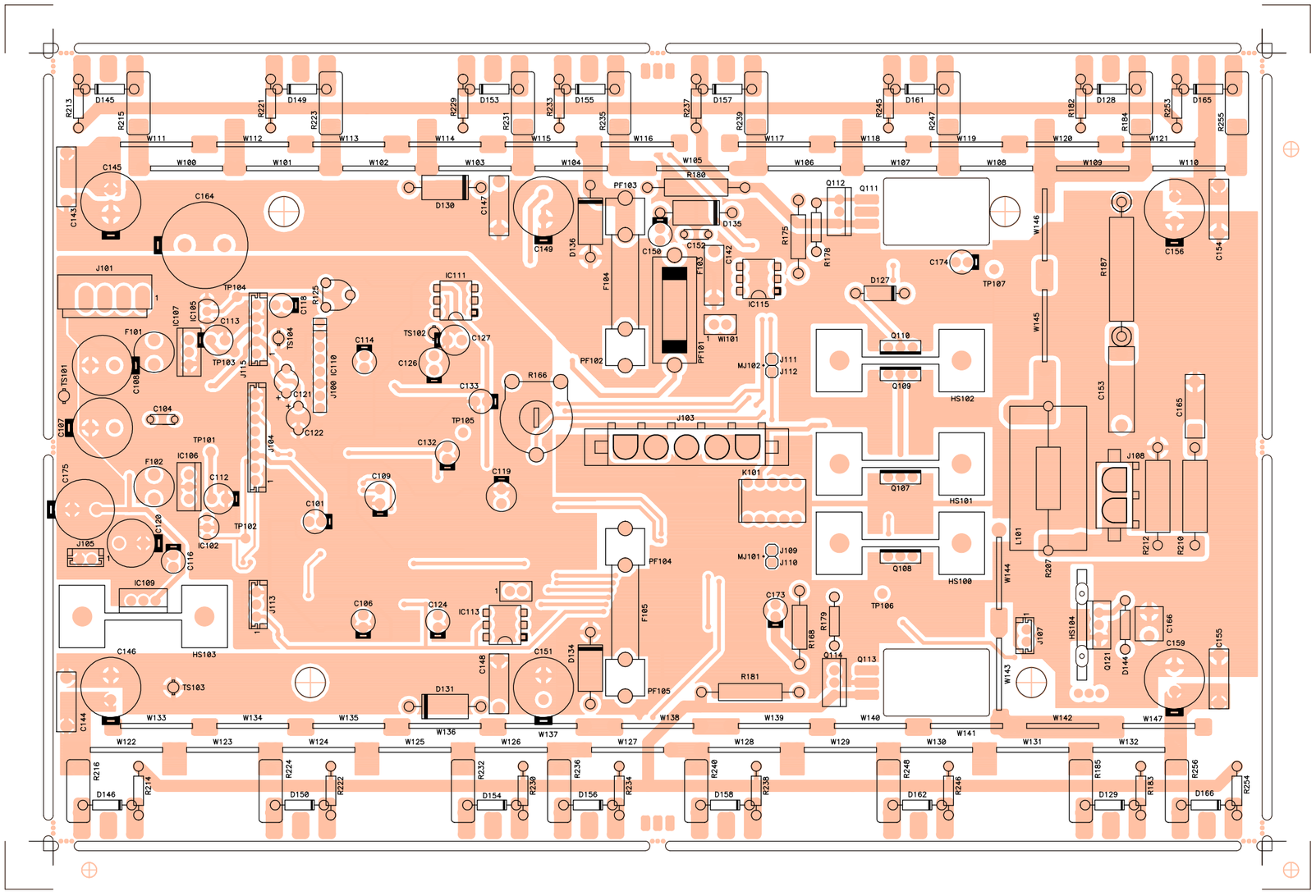
ECLER	drawn: Jordi Folch	date: 021002	project: EP04-99	product: PAM4100/6100
number: 32.0068 version 01.01	approved:	title: PACKING DIAGRAM		

Nº	Qty	ECLER Code	Desc. abreujada
1	4	FCCANT1150	INTERIOR REINFORCEMENT
2	2	FCETICAJA0	UNIT INFORMATION LABEL
3	1	FCCAJSTA18	PACKING CARDBOARD BOX
4	1	FCBOL00100	BAG 60x80
5	2	FCBOTD2401	ROT. KNOB PROTECTION COVER
6	2	FCASAPAM50	HANDLE FOR PAM
7	1	FCFUNMAN00	USER MANUAL BAG
8	4	FCARAT3000	SCREW INSULATOR
9	2	FCFUS60400	FUSE 16A
10	1	FCBOLS0200	STANDARD BAG 75x65
11	1	FCTARJG000	WARRANTY CARD
12	1	FCMANPAM20	USER MANUAL
13	4	FCARN50000	WASHER 5X11,5X0,8
14	4	FCT2005010	SCREW DIN965 M5x10
15	2	FCCAJREF10	PACKING PROTECTION CARTON

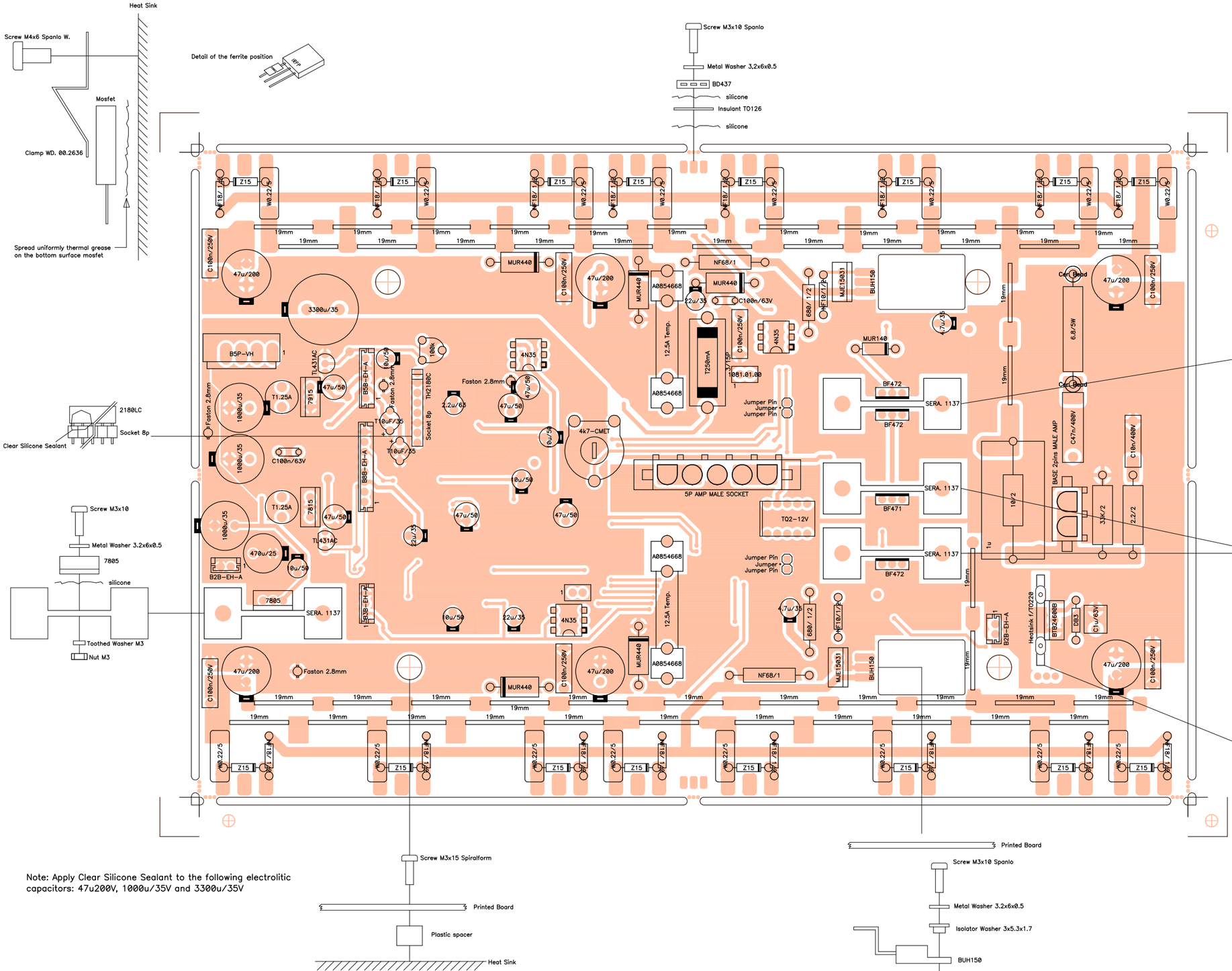


OLD VERSION

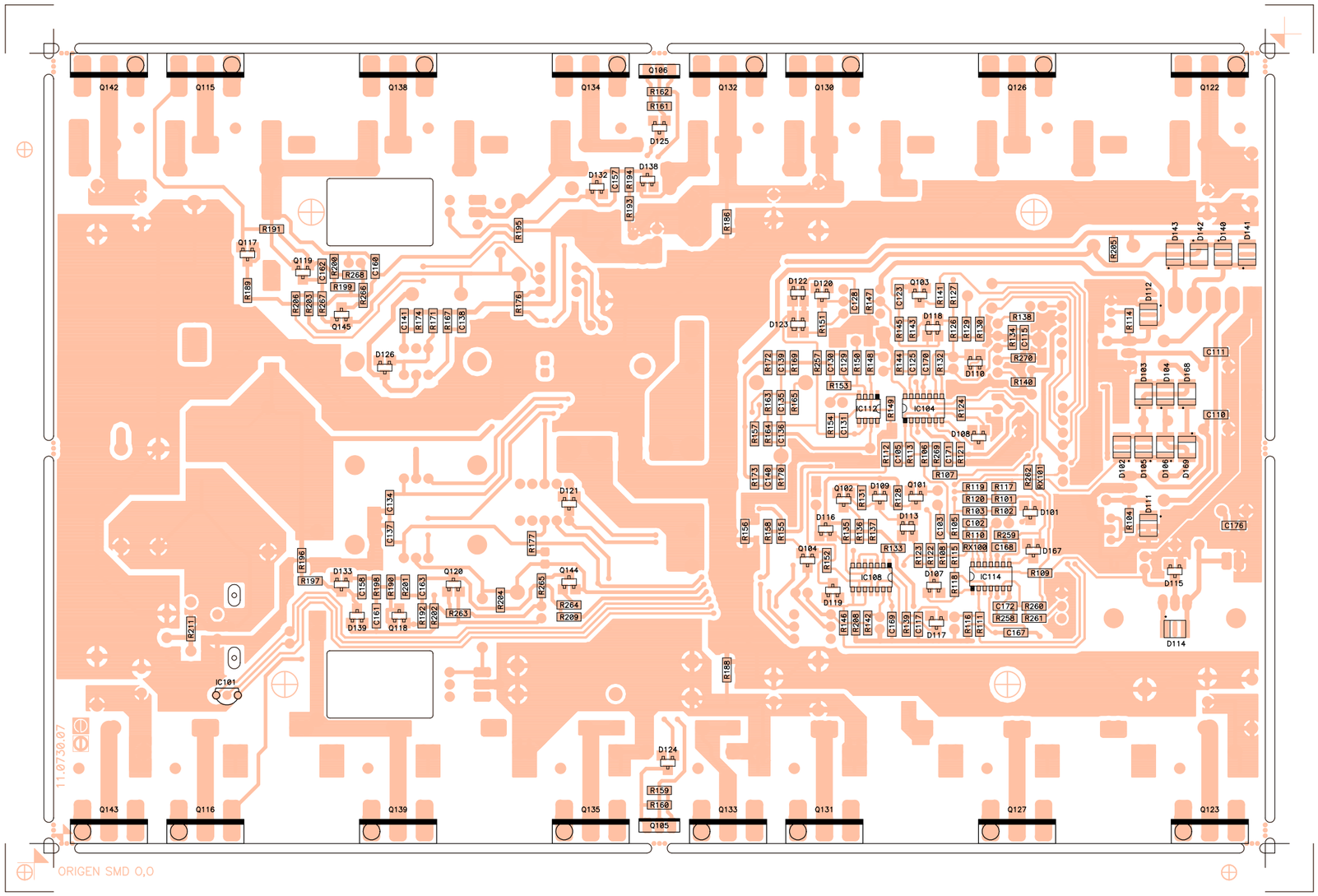
ECLER	drawn: Jordi Folch	date: 010129	project: EP04-99	product: PAM4100/6100
number: 32.0068 version 01.00	approved:	title: PACKING DIAGRAM		



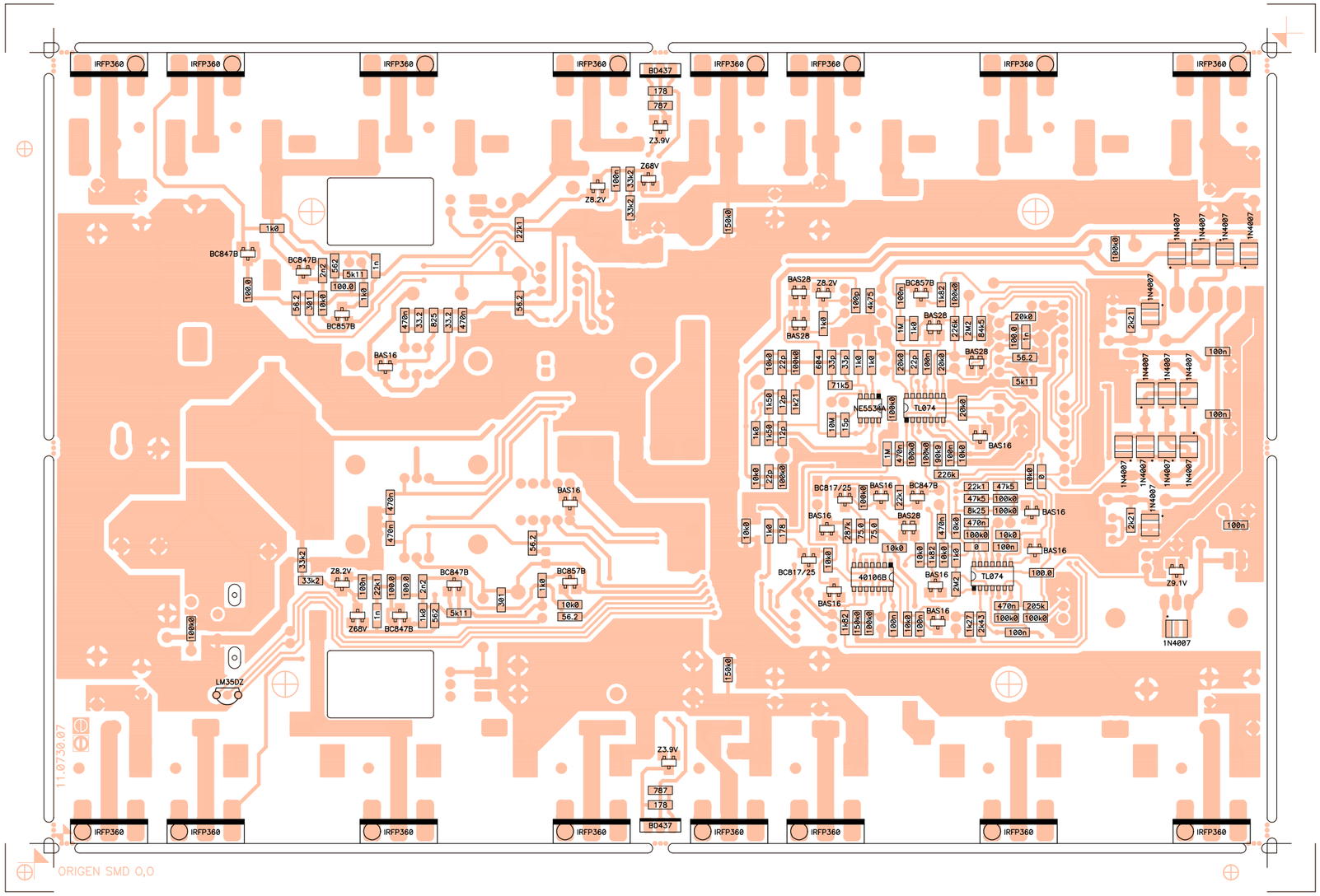
ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0730-07.01 schema no: 10.0476-01.07 insertion file no:		side: Component view: Reference
number: 33.0587	version: 01.05	project n: EP04-99A	title: Power Circuit
drawn by: M. Amoros	date: 000927	product n: PAM4100 approved: Angel Sanuy	



ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0730-07.01 schema no: 10.0476-01.07 insertion file no:	side: Component view: Value	
number: 33.0588	version: 01.06	project n: EP04-99A	title: Power Circuit
drawn by: M. Amoros	date: 000927	product n: PAM4100	
		approved: Angel Sanuy	



ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0730-07.01 schema no: 10.0476-01.07 insertion file no: 81.0047-01.02	side: Solder view: Reference	
number: 33.0589	version: 01.05	project n: EP04-99A	title: Power Circuit
drawn by: M. Amoros	date: 000927	product n: PAM4100 approved: Angel Sanuy	



ECLER LABORATORIO DE ELECTRO–ACUSTICA S.A.		related to: circuit no: 11.0730–07.01 schema no: 10.0476–01.07 insertion file no: 81.0047–01.02	side: Solder view: Value
number: 33.0590	version: 01.05	project n: EP04–99A	title: Power Circuit
drawn by: M. Amoros	date: 000927	product n: PAM4100 approved: Angel Sanuy	

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCCE200220	22u/35	C101
1	FCXCN44700	470n	C102
1	FCXCN44700	470n	C103
1	FCCDK11000	C100n/63V	C104
1	FCXCN44700	470n	C105
1	FCCE250100	10u/50	C106
1	FCCE211000	1000u/35	C107
1	FCCE211000	1000u/35	C108
1	FCCE250470	47u/50	C109
1	FCXCN41000	100n	C110
1	FCXCN41000	100n	C111
1	FCCE250470	47u/50	C112
1	FCCE250470	47u/50	C113
1	FCCE300022	2.2u/63	C114
1	FCXCN40010	1n	C115
1	FCCE250100	10u/50	C116
1	FCXCN41000	100n	C117
1	FCCE250100	10u/50	C118
1	FCCE250470	47u/50	C119
1	FCCE154700	470u/25	C120
1	FCCG001000	T10uF/35	C121
1	FCCG001000	T10uF/35	C122
1	FCXCN41000	100n	C123
1	FCCE200220	22u/35	C124
1	FCXCN12200	22p	C125
1	FCCE250470	47u/50	C126
1	FCCE250470	47u/50	C127
1	FCXCN21000	100p	C128
1	FCXCN13300	33p	C129
1	FCXCN13300	33p	C130
1	FCXCN11500	15p	C131
1	FCCE250100	10u/50	C132
1	FCCE250100	10u/50	C133
1	FCXCN44700	470n	C134
1	FCXCN11200	12p	C135
1	FCXCN11200	12p	C136
1	FCXCN44700	470n	C137
1	FCXCN44700	470n	C138
1	FCXCN12200	22p	C139
1	FCXCN12200	22p	C140
1	FCXCN44700	470n	C141
1	FCCDN11000	C100n/250V	C142
1	FCCDN11000	C100n/250V	C143
1	FCCDN11000	C100n/250V	C144
1	FCCE350047	47u/200	C145
1	FCCE350047	47u/200	C146
1	FCCDN11000	C100n/250V	C147
1	FCCDN11000	C100n/250V	C148
1	FCCE350047	47u/200	C149
1	FCCE200220	22u/35	C150
1	FCCE350047	47u/200	C151
1	FCCDK11000	C100n/63V	C152
1	FCCDH71047	C47n/400V	C153
1	FCCDN11000	C100n/250V	C154
1	FCCDN11000	C100n/250V	C155
1	FCCE350047	47u/200	C156

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCXCN41000	100n	C157
1	FCXCN41000	100n	C158
1	FCCE350047	47u/200	C159
1	FCXCN40010	1n	C160
1	FCXCN40010	1n	C161
1	FCXCN40022	2n2	C162
1	FCXCN40022	2n2	C163
1	FCCE213300	3300u/35	C164
1	FCCDH71011	C10n/400V	C165
1	FCCDK20010	C1u/63V	C166
1	FCXCN41000	100n	C167
1	FCXCN41000	100n	C168
1	FCXCN41000	100n	C169
1	FCXCN41000	100n	C170
1	FCXCN41000	100n	C171
1	FCXCN44700	470n	C172
1	FCCE200047	4.7u/35	C173
1	FCCE200047	4.7u/35	C174
1	FCCE211000	1000u/35	C175
1	FCXCN41000	100n	C176
1	FCPERL2550	Cer. Bead	CB101
1	FCPERL2550	Cer. Bead	CB102
1	FCPERL2550	Cer. Bead	CB103
1	FCPERL2550	Cer. Bead	CB104
1	FCCIPAM730	11.0730 Printed Board	CI101
1	FCXDDBAS16	BAS16	D101
1	FCXDD40070	1N4007	D102
1	FCXDD40070	1N4007	D103
1	FCXDD40070	1N4007	D104
1	FCXDD40070	1N4007	D105
1	FCXDD40070	1N4007	D106
1	FCXDDBAS16	BAS16	D107
1	FCXDDBAS16	BAS16	D108
1	FCXDDBAS16	BAS16	D109
1	FCXDDBAS28	BAS28	D110
1	FCXDD40070	1N4007	D111
1	FCXDD40070	1N4007	D112
1	FCXDDBAS28	BAS28	D113
1	FCXDD40070	1N4007	D114
1	FCXZ000091	Z9.1V	D115
1	FCXDDBAS16	BAS16	D116
1	FCXDDBAS16	BAS16	D117
1	FCXDDBAS28	BAS28	D118
1	FCXDDBAS16	BAS16	D119
1	FCXZ000082	Z8.2V	D120
1	FCXDDBAS16	BAS16	D121
1	FCXDDBAS28	BAS28	D122
1	FCXDDBAS28	BAS28	D123
1	FCXZ000039	Z3.9V	D124
1	FCXZ000039	Z3.9V	D125
1	FCXDDBAS16	BAS16	D126
1	FCDDMUR140	MUR140	D127
1	FCDD041500	Z15	D128
1	FCDD041500	Z15	D129
1	FCDDMUR440	MUR440	D130
1	FCDDMUR440	MUR440	D131

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCXZ000082	Z8.2V	D132
1	FCXZ000082	Z8.2V	D133
1	FCDDMUR440	MUR440	D134
1	FCDDMUR440	MUR440	D135
1	FCDDMUR440	MUR440	D136
1	FCXZ000680	Z68V	D138
1	FCXZ000680	Z68V	D139
1	FCXDD40070	1N4007	D140
1	FCXDD40070	1N4007	D141
1	FCXDD40070	1N4007	D142
1	FCXDD40070	1N4007	D143
1	FCDIDB3000	DB3	D144
1	FCDD041500	Z15	D145
1	FCDD041500	Z15	D146
1	FCDD041500	Z15	D149
1	FCDD041500	Z15	D150
1	FCDD041500	Z15	D153
1	FCDD041500	Z15	D154
1	FCDD041500	Z15	D155
1	FCDD041500	Z15	D156
1	FCDD041500	Z15	D157
1	FCDD041500	Z15	D158
1	FCDD041500	Z15	D161
1	FCDD041500	Z15	D162
1	FCDD041500	Z15	D165
1	FCDD041500	Z15	D166
1	FCXDDBAS16	BAS16	D167
1	FCXDD40070	1N4007	D168
1	FCXDD40070	1N4007	D169
1	FCFUS40125	T1.25A	F101
1	FCFUS40125	T1.25A	F102
1	FCFUS50080	T250mA	F103
1	FCFUS60300	12.5A Temp.	F104
1	FCFUS60300	12.5A Temp.	F105
1	FCFER43220	Ferrite	FB101
1	FCFER43220	Ferrite	FB102
1	FCFER43220	Ferrite	FB103
1	FCFER43220	Ferrite	FB104
1	FCFER43220	Ferrite	FB105
1	FCFER43220	Ferrite	FB106
1	FCFER43220	Ferrite	FB107
1	FCFER43220	Ferrite	FB108
1	FCFER43220	Ferrite	FB113
1	FCFER43220	Ferrite	FB114
1	FCFER43220	Ferrite	FB115
1	FCFER43220	Ferrite	FB116
1	FCFER43220	Ferrite	FB121
1	FCFER43220	Ferrite	FB122
1	FCFER43220	Ferrite	FB123
1	FCFER43220	Ferrite	FB124
1	FCFER43220	Ferrite	FB125
1	FCFER43220	Ferrite	FB126
1	FCFER43220	Ferrite	FB127
1	FCFER43220	Ferrite	FB128
1	FCFER43220	Ferrite	FB129
1	FCFER43220	Ferrite	FB130

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCFER43220	Ferrite	FB131
1	FCFER43220	Ferrite	FB132
1	FCFER43220	Ferrite	FB137
1	FCFER43220	Ferrite	FB138
1	FCFER43220	Ferrite	FB139
1	FCFER43220	Ferrite	FB140
1	FCFER43220	Ferrite	FB145
1	FCFER43220	Ferrite	FB146
1	FCFER43220	Ferrite	FB147
1	FCFER43220	Ferrite	FB148
1	FCRAD12636	SERA. 1137	HS100
1	FCRAD12636	SERA. 1137	HS101
1	FCRAD12636	SERA. 1137	HS102
1	FCRAD12636	SERA. 1137	HS103
1	FCMECT0220	Heatsink f/TO220	HS104
1	FCRAD03000	Heatsink f/ Power Module	HS105
1	FCRAD03000	Heatsink f/ Power Module	HS106
1	FCIC350000	LM35DZ	IC101
1	FCIC431000	TL431AC	IC102
1	FCIC074010	TL074	IC104
1	FCIC431000	TL431AC	IC105
1	FCREG78150	7815	IC106
1	FCREG79150	7915	IC107
1	FCIC401060	40106B	IC108
1	FCREG78050	7805	IC109
1	FCIC218000	TH2180C	IC110
1	FCIC435000	4N35	IC111
1	FCIC553410	NE5534A	IC112
1	FCIC435000	4N35	IC113
1	FCIC074010	TL074	IC114
1	FCIC435000	4N35	IC115
1	FCMICTO126	Insulant TO126	IN100
1	FCMICTO126	Insulant TO126	IN101
1	FCMICTO220	Insulant TO220	IN102
1	FCMICTO220	Insulant TO220	IN103
1	FCTERM0080	Socket 8p	J100
1	FCCTJ10050	B5P-VH	J101
1	FCCTAMP050	5P AMP MALE SOCKET	J103
1	FCCTM00080	B8B-EH-A	J104
1	FCCTM00020	B2B-EH-A	J105
1	FCCTM00020	B2B-EH-A	J107
1	FCCTAMP020	BASE 2pins MALE AMP	J108
1	FCTERM0100	Jumper Pin	J109
1	FCTERM0100	Jumper Pin	J110
1	FCTERM0100	Jumper Pin	J111
1	FCTERM0100	Jumper Pin	J112
1	FCCTM00030	B3B-EH-A	J113
1	FCCTM00050	B5B-EH-A	J115
1	FCREL00300	TQ2-12V	K101
1	FCIND00100	1u	L101
1	FCMJ000100	Jumper	MJ101
1	FCMJ000100	Jumper	MJ102
1	FCPINZAM00	Clamp WD. 00.2636	MP100
1	FCPINZAM00	Clamp WD. 00.2636	MP101
1	FCPINZAM00	Clamp WD. 00.2636	MP102
1	FCPINZAM00	Clamp WD. 00.2636	MP103

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCTUE00300	Nut M3	NV100
1	FCTUE00300	Nut M3	NV101
1	FCTUE00300	Nut M3	NV102
1	FCTUE00300	Nut M3	NV103
1	FCTUE00300	Nut M3	NV104
1	FCPORF3150	3/15P	PF101
1	FCPORF0100	A0854668	PF102
1	FCPORF0100	A0854668	PF103
1	FCPORF0100	A0854668	PF104
1	FCPORF0100	A0854668	PF105
1	FCXTT08470	BC847B	Q101
1	FCXTT08170	BC817/25	Q102
1	FCXTT08570	BC857B	Q103
1	FCXTT08170	BC817/25	Q104
1	FCTR437000	BD437	Q105
1	FCTR437000	BD437	Q106
1	FCTR471000	BF471	Q107
1	FCTR472000	BF472	Q108
1	FCTR472000	BF472	Q109
1	FCTR472000	BF472	Q110
1	FCTR150000	BUH150	Q111
1	FCTR150310	MJE15031	Q112
1	FCTR150000	BUH150	Q113
1	FCTR150310	MJE15031	Q114
1	FCTR360000	IRFP360	Q115
1	FCTR360000	IRFP360	Q116
1	FCXTT08470	BC847B	Q117
1	FCXTT08470	BC847B	Q118
1	FCXTT08470	BC847B	Q119
1	FCXTT08470	BC847B	Q120
1	FCTI246000	BTB24600B	Q121
1	FCTR360000	IRFP360	Q122
1	FCTR360000	IRFP360	Q123
1	FCTR360000	IRFP360	Q126
1	FCTR360000	IRFP360	Q127
1	FCTR360000	IRFP360	Q130
1	FCTR360000	IRFP360	Q131
1	FCTR360000	IRFP360	Q132
1	FCTR360000	IRFP360	Q133
1	FCTR360000	IRFP360	Q134
1	FCTR360000	IRFP360	Q135
1	FCTR360000	IRFP360	Q138
1	FCTR360000	IRFP360	Q139
1	FCTR360000	IRFP360	Q142
1	FCTR360000	IRFP360	Q143
1	FCXTT08570	BC857B	Q144
1	FCXTT08570	BC857B	Q145
1	FCXR151000	100k0	R101
1	FCXR151000	100k0	R102
1	FCXR138250	8k25	R103
1	FCXR132210	2k21	R104
1	FCXR141000	10k0	R105
1	FCXR151000	100k0	R106
1	FCXR152260	226k	R107
1	FCXR141000	10k0	R108
1	FCXR121000	100.0	R109

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCXR151000	100k0	R110
1	FCXR132430	2k43	R111
1	FCXR061000	1M	R112
1	FCXR151000	100k0	R113
1	FCXR132210	2k21	R114
1	FCXR131000	1k0	R115
1	FCXR131270	1k27	R116
1	FCXR144750	47k5	R117
1	FCXR062200	2M2	R118
1	FCXR142210	22k1	R119
1	FCXR144750	47k5	R120
1	FCXR141000	10k0	R121
1	FCXR131820	1k82	R122
1	FCXR141000	10k0	R123
1	FCXR142000	20k0	R124
1	FCRJC61000	100k	R125
1	FCXR152260	226k	R126
1	FCXR151000	100k0	R127
1	FCXR142210	22k1	R128
1	FCXR062200	2M2	R129
1	FCXR148450	84k5	R130
1	FCXR151000	100k0	R131
1	FCXR142000	20k0	R132
1	FCXR141000	10k0	R133
1	FCXR121000	100.0	R134
1	FCXR152870	287k	R135
1	FCXR117500	75.0	R136
1	FCXR117500	75.0	R137
1	FCXR142000	20k0	R138
1	FCXR141000	10k0	R139
1	FCXR135110	5k11	R140
1	FCXR131820	1k82	R141
1	FCXR151000	100k0	R142
1	FCXR131000	1k0	R143
1	FCXR142000	20k0	R144
1	FCXR061000	1M	R145
1	FCXR131820	1k82	R146
1	FCXR134750	4k75	R147
1	FCXR131000	1k0	R148
1	FCXR151000	100k0	R149
1	FCXR131000	1k0	R150
1	FCXR131000	1k0	R151
1	FCXR141000	10k0	R152
1	FCXR147150	71k5	R153
1	FCXR071000	10M	R154
1	FCXR121780	178	R155
1	FCXR141000	10k0	R156
1	FCXR131000	1k0	R157
1	FCXR131000	1k0	R158
1	FCXR127870	787	R159
1	FCXR121780	178	R160
1	FCXR127870	787	R161
1	FCXR121780	178	R162
1	FCXR131500	1k50	R163
1	FCXR131500	1k50	R164
1	FCXR131210	1k21	R165

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCRJP44700	4k7-CMET	R166
1	FCXR113320	33.2	R167
1	FCRC236800	680/ 1/2	R168
1	FCXR151000	100k0	R169
1	FCXR151000	100k0	R170
1	FCXR128250	825	R171
1	FCXR141000	10k0	R172
1	FCXR141000	10k0	R173
1	FCXR113320	33.2	R174
1	FCRC236800	680/ 1/2	R175
1	FCXR115620	56.2	R176
1	FCXR115620	56.2	R177
1	FCRF221000	NF10/1/2	R178
1	FCRF221000	NF10/1/2	R179
1	FCRF426800	NF68/1	R180
1	FCRF426800	NF68/1	R181
1	FCRF221800	NF18/ 1/2	R182
1	FCRF221800	NF18/ 1/2	R183
1	FCRY000100	W0.22/5	R184
1	FCRY000100	W0.22/5	R185
1	FCXR151500	150k0	R186
1	FCRY000250	6.8/5W	R187
1	FCXR151500	150k0	R188
1	FCXR121000	100.0	R189
1	FCXR121000	100.0	R190
1	FCXR131000	1k0	R191
1	FCXR131000	1k0	R192
1	FCXR143320	33k2	R193
1	FCXR143320	33k2	R194
1	FCXR142210	22k1	R195
1	FCXR143320	33k2	R196
1	FCXR143320	33k2	R197
1	FCXR142210	22k1	R198
1	FCXR121000	100.0	R199
1	FCXR125620	562	R200
1	FCXR121000	100.0	R201
1	FCXR125620	562	R202
1	FCXR123010	301	R203
1	FCXR123010	301	R204
1	FCXR151000	100k0	R205
1	FCXR115620	56.2	R206
1	FCRC521000	10/2	R207
1	FCXR151500	150k0	R208
1	FCXR115620	56.2	R209
1	FCRC512200	2.2/2	R210
1	FCXR151000	100k0	R211
1	FCRC553300	33K/2	R212
1	FCRF221800	NF18/ 1/2	R213
1	FCRF221800	NF18/ 1/2	R214
1	FCRY000100	W0.22/5	R215
1	FCRY000100	W0.22/5	R216
1	FCRF221800	NF18/ 1/2	R221
1	FCRF221800	NF18/ 1/2	R222
1	FCRY000100	W0.22/5	R223
1	FCRY000100	W0.22/5	R224
1	FCRF221800	NF18/ 1/2	R229

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCRF221800	NF18/ 1/2	R230
1	FCRY000100	W0.22/5	R231
1	FCRY000100	W0.22/5	R232
1	FCRF221800	NF18/ 1/2	R233
1	FCRF221800	NF18/ 1/2	R234
1	FCRY000100	W0.22/5	R235
1	FCRY000100	W0.22/5	R236
1	FCRF221800	NF18/ 1/2	R237
1	FCRF221800	NF18/ 1/2	R238
1	FCRY000100	W0.22/5	R239
1	FCRY000100	W0.22/5	R240
1	FCRF221800	NF18/ 1/2	R245
1	FCRF221800	NF18/ 1/2	R246
1	FCRY000100	W0.22/5	R247
1	FCRY000100	W0.22/5	R248
1	FCRF221800	NF18/ 1/2	R253
1	FCRF221800	NF18/ 1/2	R254
1	FCRY000100	W0.22/5	R255
1	FCRY000100	W0.22/5	R256
1	FCXR126040	604	R257
1	FCXR151000	100k0	R258
1	FCXR141000	10k0	R259
1	FCXR152050	205k	R260
1	FCXR151000	100k0	R261
1	FCXR141000	10k0	R262
1	FCXR135110	5k11	R263
1	FCXR141000	10k0	R264
1	FCXR131000	1k0	R265
1	FCXR131000	1k0	R266
1	FCXR141000	10k0	R267
1	FCXR135110	5k11	R268
1	FCXR149090	90k9	R269
1	FCXR115620	56.2	R270
1	FCXR000000	0	RX100
1	FCXR000000	0	RX101
1	FCT8040060	Screw M4x6 SPAN	SC100
1	FCT8040060	Screw M4x6 SPAN	SC101
1	FCT8040060	Screw M4x6 SPAN	SC102
1	FCT8040060	Screw M4x6 SPAN	SC103
1	FCT8040060	Screw M4x6 SPAN	SC104
1	FCT8040060	Screw M4x6 SPAN	SC105
1	FCT8040060	Screw M4x6 SPAN	SC106
1	FCT8040060	Screw M4x6 SPAN	SC107
1	FCT8040060	Screw M4x6 SPAN	SC108
1	FCT8040060	Screw M4x6 SPAN	SC109
1	FCT8040060	Screw M4x6 SPAN	SC110
1	FCT8040060	Screw M4x6 SPAN	SC111
1	FCT8030100	Screw M3x10 SPA	SC112
1	FCT8030100	Screw M3x10 SPA	SC113
1	FCT8030150	Screw 3x15 SPIRALFORM	SC114
1	FCT8030150	Screw 3x15 SPIRALFORM	SC115
1	FCT8030100	Screw M3x10 SPA	SC116
1	FCT8030100	Screw M3x10 SPA	SC117
1	FCT7503010	Screw M3x10	SC118
1	FCT7503010	Screw M3x10	SC119
1	FCT7503010	Screw M3x10	SC120

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCT7503010	Screw M3x10	SC121
1	FCT8030150	Screw M3x15	SC122
1	FCSEPPM000	Plastic Spacer f/board ct.	SC123
1	FCT8030150	Screw 3x15 SPIRALFORM	SC124
1	FCT8030150	Screw 3x15 SPIRALFORM	SC125
1	FCSEPPM000	Plastic Spacer f/board ct.	SC126
1	FCSEPPM000	Plastic Spacer f/board ct.	SC127
1	FCSEPPM000	Plastic Spacer f/board ct.	SC128
1	FCTERMF280	Faston 2.8mm	TS101
1	FCTERMF280	Faston 2.8mm	TS102
1	FCTERMF280	Faston 2.8mm	TS103
1	FCTERMF280	Faston 2.8mm	TS104
1	FCMECPON19	19mm	W100
1	FCMECPON19	19mm	W101
1	FCMECPON19	19mm	W102
1	FCMECPON19	19mm	W103
1	FCMECPON19	19mm	W104
1	FCMECPON19	19mm	W105
1	FCMECPON19	19mm	W106
1	FCMECPON19	19mm	W107
1	FCMECPON19	19mm	W108
1	FCMECPON19	19mm	W109
1	FCMECPON19	19mm	W110
1	FCMECPON19	19mm	W111
1	FCMECPON19	19mm	W112
1	FCMECPON19	19mm	W113
1	FCMECPON19	19mm	W114
1	FCMECPON19	19mm	W115
1	FCMECPON19	19mm	W116
1	FCMECPON19	19mm	W117
1	FCMECPON19	19mm	W118
1	FCMECPON19	19mm	W119
1	FCMECPON19	19mm	W120
1	FCMECPON19	19mm	W121
1	FCMECPON19	19mm	W122
1	FCMECPON19	19mm	W123
1	FCMECPON19	19mm	W124
1	FCMECPON19	19mm	W125
1	FCMECPON19	19mm	W126
1	FCMECPON19	19mm	W127
1	FCMECPON19	19mm	W128
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1	FCMECPON19	19mm	W131
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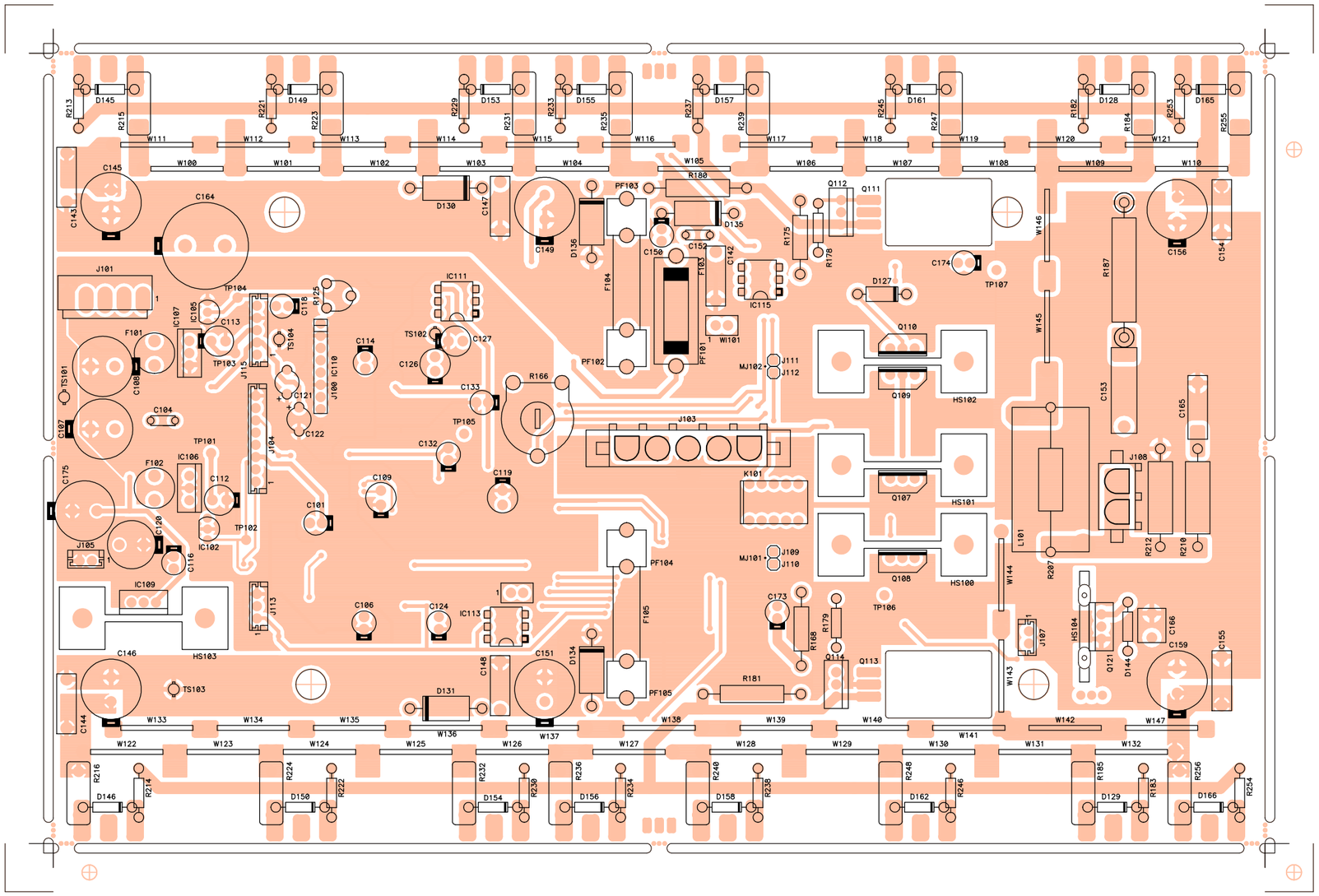
1	FCMECPON19	19mm	W136
1	FCMECPON19	19mm	W137
1	FCMECPON19	19mm	W138
1	FCMECPON19	19mm	W139
1	FCMECPON19	19mm	W140
1	FCMECPON19	19mm	W141
1	FCMECPON19	19mm	W142
1	FCMECPON19	19mm	W143

PARTS LIST: PRINTED CIRCUIT 11.0730.07.01

Q	Code	Description	Reference
1	FCMECPON19	19mm	W144
1	FCMECPON19	19mm	W145
1	FCMECPON19	19mm	W146
1	FCMECPON19	19mm	W147
1	FCARM32000	Metal Washer 3.2x6x0.5	WA100
1	FCARM32000	Metal Washer 3.2x6x0.5	WA101
1	FCARM32000	Metal Washer 3.2x6x0.5	WA102
1	FCARM32000	Metal Washer 3.2x6x0.5	WA103
1	FCARM32000	Metal Washer 3.2x6x0.5	WA104
1	FCARDE0300	Toothed Washer f/M3	WA105
1	FCARM32000	Metal Washer 3.2x6x0.5	WA106
1	FCARDE0300	Toothed Washer f/M3	WA107
1	FCARDE0300	Toothed Washer f/M3	WA108
1	FCARDE0300	Toothed Washer f/M3	WA109
1	FCARDE0300	Toothed Washer f/M3	WA110
1	FCARM32000	Metal Washer 3.2x6x0.5	WA114
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA115
1	FCSEPCE126	Ceramic Isolator TO126	WA116
1	FCSEPCE126	Ceramic Isolator TO126	WA117
1	FCSEPCE126	Ceramic Isolator TO126	WA118
1	FCSEPCE126	Ceramic Isolator TO126	WA119
1	FCARM32000	Metal Washer 3.2x6x0.5	WA120
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA122
1	FC4G081100	1081.01.00	WI101



OLD VERSION

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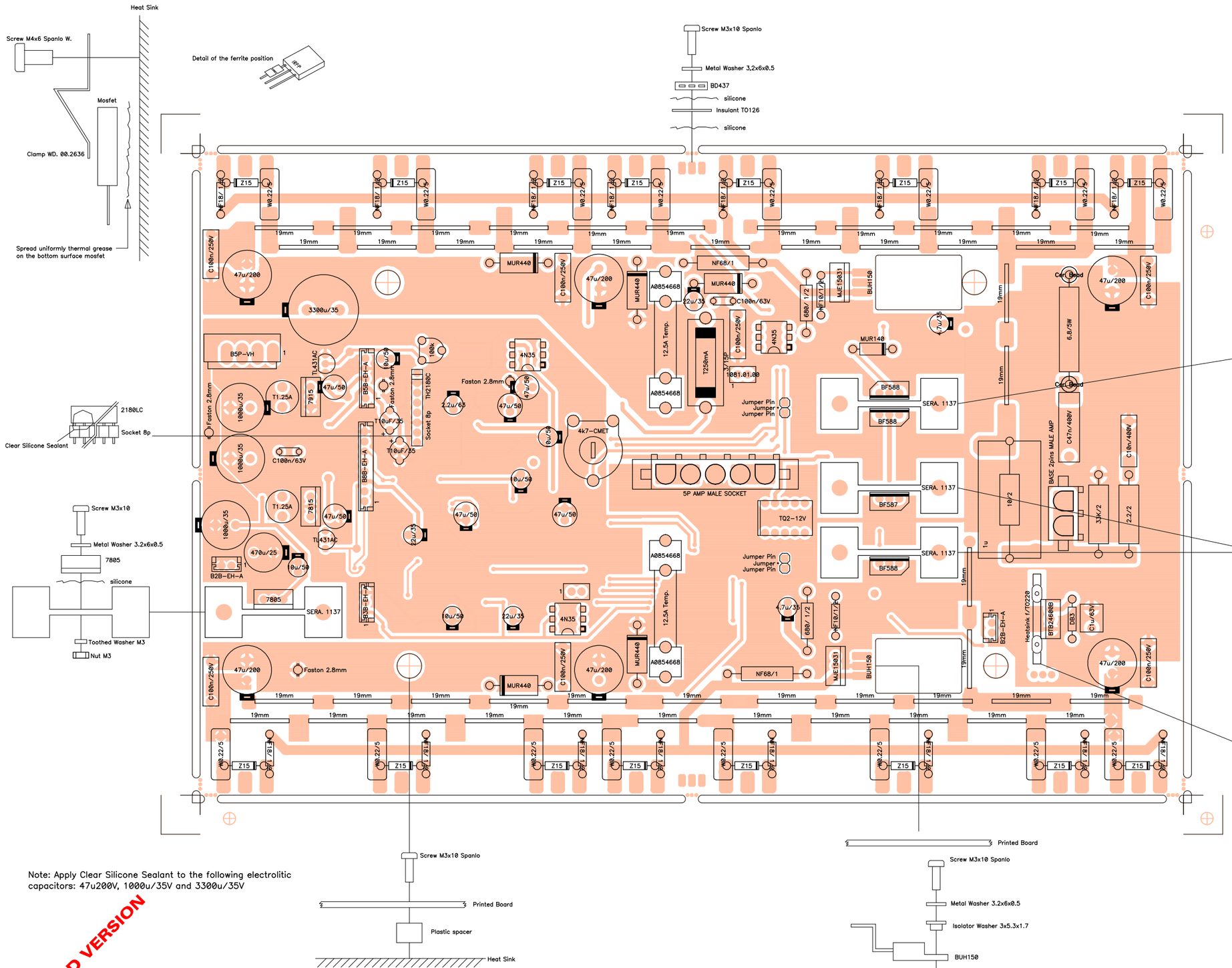
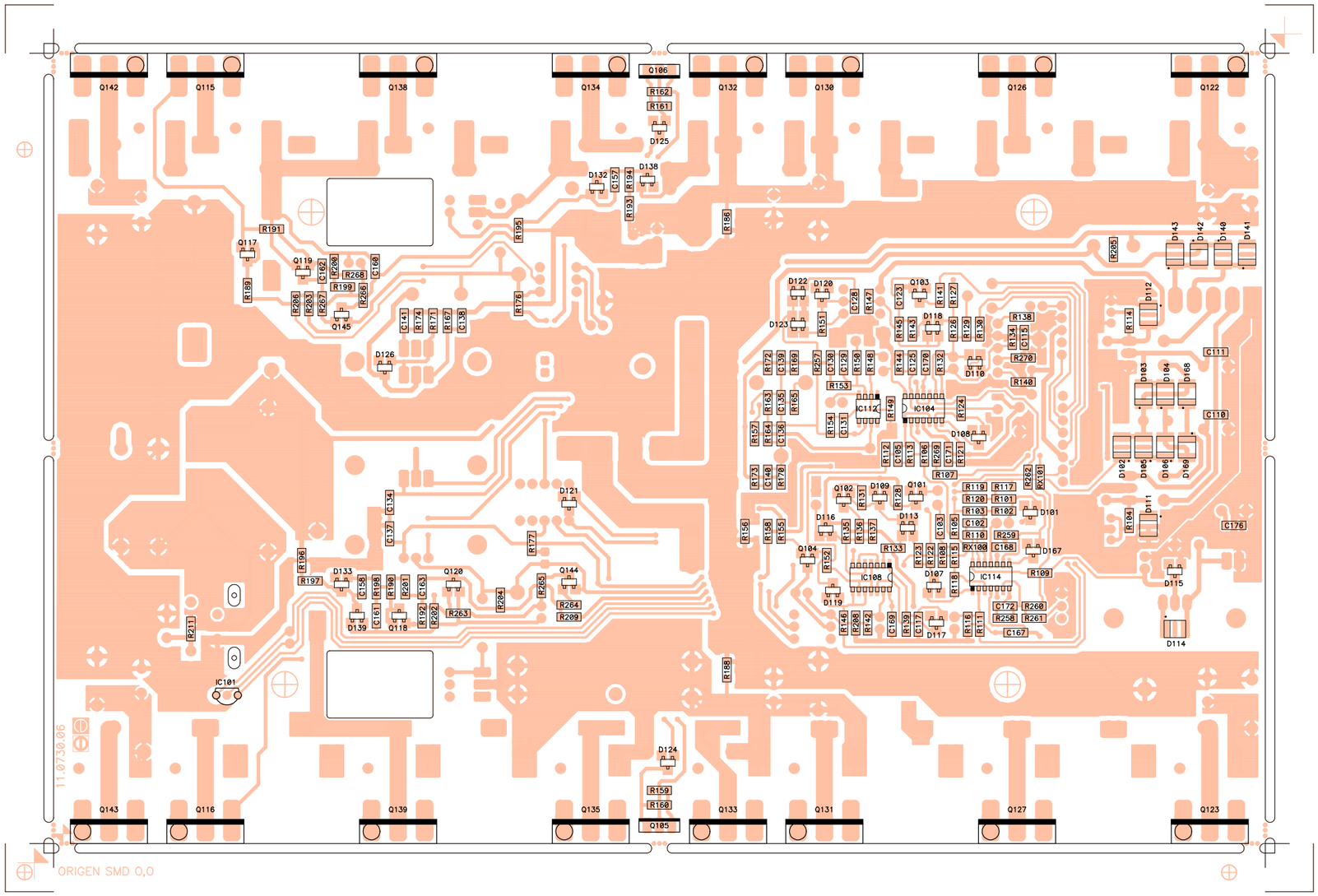
number: 33.0587	version: 01.03	project n: EP04-99A product n: PAM4100	title: Power Circuit
drawn by: M. Amoros	date: 000927	approved: Angel Sanuy	



Note: Apply Clear Silicone Sealant to the following electrolitic capacitors: 47u200V, 1000u/35V and 3300u/35V

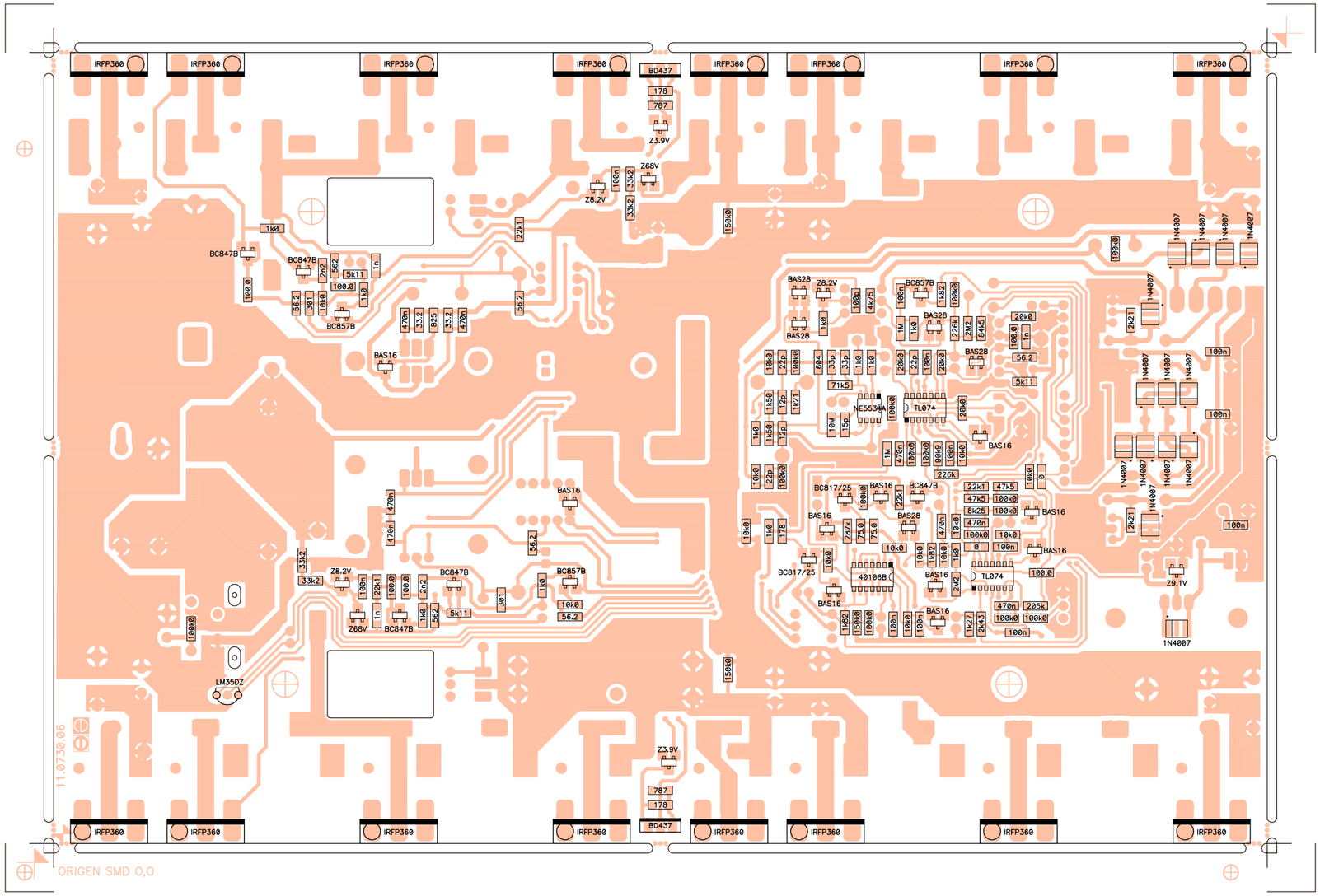
OLD VERSION

ECLERee LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0730-06.00 schema no: 10.0476-01.06 insertion file no:	side: Component view: Value	
number: 33.0588	version: 01.03	project n: EP04-99A	title: Power Circuit
drawn by: M. Amoros	date: 000927	product n: PAM4100 approved: Angel Sanuy	



OLD VERSION

ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0730-06.00 schema no: 10.0476-01.06 insertion file no: 81.0047-01.02	side: Solder view: Reference	
number: 33.0589	version: 01.03	project n: EP04-99A	title: Power Circuit
drawn by: M. Amoros	date: 000927	product n: PAM4100 approved: Angel Sanuy	



OLD VERSION

ECLER LABORATORIO DE ELECTRO-ACUSTICA S.A.	related to: circuit no: 11.0730-06.00 schema no: 10.0476-01.06 insertion file no: 81.0047-01.02	side: Solder view: Value	
number: 33.0590	version: 01.03	project n: EP04-99A	title: Power Circuit
drawn by: M. Amoros	date: 000927	product n: PAM4100	
		approved: Angel Sanuy	

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCCE200220	22u/35	C101
1	FCXCN44700	470n	C102
1	FCXCN44700	470n	C103
1	FCCDK11000	C100n/63V	C104
1	FCXCN44700	470n	C105
1	FCCE250100	10u/50	C106
1	FCCE211000	1000u/35	C107
1	FCCE211000	1000u/35	C108
1	FCCE250470	47u/50	C109
1	FCXCN41000	100n	C110
1	FCXCN41000	100n	C111
1	FCCE250470	47u/50	C112
1	FCCE250470	47u/50	C113
1	FCCE300022	2.2u/63	C114
1	FCXCN40010	1n	C115
1	FCCE250100	10u/50	C116
1	FCXCN41000	100n	C117
1	FCCE250100	10u/50	C118
1	FCCE250470	47u/50	C119
1	FCCE154700	470u/25	C120
1	FCCG001000	T10uF/35	C121
1	FCCG001000	T10uF/35	C122
1	FCXCN41000	100n	C123
1	FCCE200220	22u/35	C124
1	FCXCN12200	22p	C125
1	FCCE250470	47u/50	C126
1	FCCE250470	47u/50	C127
1	FCXCN21000	100p	C128
1	FCXCN13300	33p	C129
1	FCXCN13300	33p	C130
1	FCXCN11500	15p	C131
1	FCCE250100	10u/50	C132
1	FCCE250100	10u/50	C133
1	FCXCN44700	470n	C134
1	FCXCN11200	12p	C135
1	FCXCN11200	12p	C136
1	FCXCN44700	470n	C137
1	FCXCN44700	470n	C138
1	FCXCN12200	22p	C139
1	FCXCN12200	22p	C140
1	FCXCN44700	470n	C141
1	FCCDN11000	C100n/250V	C142
1	FCCDN11000	C100n/250V	C143
1	FCCDN11000	C100n/250V	C144
1	FCCE350047	47u/200	C145
1	FCCE350047	47u/200	C146
1	FCCDN11000	C100n/250V	C147
1	FCCDN11000	C100n/250V	C148
1	FCCE350047	47u/200	C149
1	FCCE200220	22u/35	C150
1	FCCE350047	47u/200	C151
1	FCCDK11000	C100n/63V	C152
1	FCCDH71047	C47n/400V	C153
1	FCCDN11000	C100n/250V	C154

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCCDN11000	C100n/250V	C155
1	FCCE350047	47u/200	C156
1	FCXCN41000	100n	C157
1	FCXCN41000	100n	C158
1	FCCE350047	47u/200	C159
1	FCXCN40010	1n	C160
1	FCXCN40010	1n	C161
1	FCXCN40022	2n2	C162
1	FCXCN40022	2n2	C163
1	FCCE213300	3300u/35	C164
1	FCCDH71011	C10n/400V	C165
1	FCCDK20010	C1u/63V	C166
1	FCXCN41000	100n	C167
1	FCXCN41000	100n	C168
1	FCXCN41000	100n	C169
1	FCXCN41000	100n	C170
1	FCXCN41000	100n	C171
1	FCXCN44700	470n	C172
1	FCCE200047	4.7u/35	C173
1	FCCE200047	4.7u/35	C174
1	FCCE211000	1000u/35	C175
1	FCXCN41000	100n	C176
1	FCPERL2550	Cer. Bead	CB101
1	FCPERL2550	Cer. Bead	CB102
1	FCPERL2550	Cer. Bead	CB103
1	FCPERL2550	Cer. Bead	CB104
1	FCCIPAM730	11.0730 Printed Board	CI101
1	FCXDDBAS16	BAS16	D101
1	FCXDD40070	1N4007	D102
1	FCXDD40070	1N4007	D103
1	FCXDD40070	1N4007	D104
1	FCXDD40070	1N4007	D105
1	FCXDD40070	1N4007	D106
1	FCXDDBAS16	BAS16	D107
1	FCXDDBAS16	BAS16	D108
1	FCXDDBAS16	BAS16	D109
1	FCXDDBAS28	BAS28	D110
1	FCXDD40070	1N4007	D111
1	FCXDD40070	1N4007	D112
1	FCXDDBAS28	BAS28	D113
1	FCXDD40070	1N4007	D114
1	FCXZ000091	Z9.1V	D115
1	FCXDDBAS16	BAS16	D116
1	FCXDDBAS16	BAS16	D117
1	FCXDDBAS28	BAS28	D118
1	FCXDDBAS16	BAS16	D119
1	FCXZ000082	Z8.2V	D120
1	FCXDDBAS16	BAS16	D121
1	FCXDDBAS28	BAS28	D122
1	FCXDDBAS28	BAS28	D123
1	FCXZ000039	Z3.9V	D124
1	FCXZ000039	Z3.9V	D125
1	FCXDDBAS16	BAS16	D126
1	FCDDMUR140	MUR140	D127

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCDD041500	Z15	D128
1	FCDD041500	Z15	D129
1	FCDDMUR440	MUR440	D130
1	FCDDMUR440	MUR440	D131
1	FCXZ000082	Z8.2V	D132
1	FCXZ000082	Z8.2V	D133
1	FCDDMUR440	MUR440	D134
1	FCDDMUR440	MUR440	D135
1	FCDDMUR440	MUR440	D136
1	FCXZ000680	Z68V	D138
1	FCXZ000680	Z68V	D139
1	FCXDD40070	1N4007	D140
1	FCXDD40070	1N4007	D141
1	FCXDD40070	1N4007	D142
1	FCXDD40070	1N4007	D143
1	FCDIDB3000	DB3	D144
1	FCDD041500	Z15	D145
1	FCDD041500	Z15	D146
1	FCDD041500	Z15	D149
1	FCDD041500	Z15	D150
1	FCDD041500	Z15	D153
1	FCDD041500	Z15	D154
1	FCDD041500	Z15	D155
1	FCDD041500	Z15	D156
1	FCDD041500	Z15	D157
1	FCDD041500	Z15	D158
1	FCDD041500	Z15	D161
1	FCDD041500	Z15	D162
1	FCDD041500	Z15	D165
1	FCDD041500	Z15	D166
1	FCXDDBAS16	BAS16	D167
1	FCXDD40070	1N4007	D168
1	FCXDD40070	1N4007	D169
1	FCFUS40125	T1.25A	F101
1	FCFUS40125	T1.25A	F102
1	FCFUS50080	T250mA	F103
1	FCFUS60300	12.5A Temp.	F104
1	FCFUS60300	12.5A Temp.	F105
1	FCFER43220	Ferrite	FB101
1	FCFER43220	Ferrite	FB102
1	FCFER43220	Ferrite	FB103
1	FCFER43220	Ferrite	FB104
1	FCFER43220	Ferrite	FB105
1	FCFER43220	Ferrite	FB106
1	FCFER43220	Ferrite	FB107
1	FCFER43220	Ferrite	FB108
1	FCFER43220	Ferrite	FB113
1	FCFER43220	Ferrite	FB114
1	FCFER43220	Ferrite	FB115
1	FCFER43220	Ferrite	FB116
1	FCFER43220	Ferrite	FB121
1	FCFER43220	Ferrite	FB122
1	FCFER43220	Ferrite	FB123
1	FCFER43220	Ferrite	FB124

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

OLD VERSION

Q	Code	Description	Reference
1	FCFER43220	Ferrite	FB125
1	FCFER43220	Ferrite	FB126
1	FCFER43220	Ferrite	FB127
1	FCFER43220	Ferrite	FB128
1	FCFER43220	Ferrite	FB129
1	FCFER43220	Ferrite	FB130
1	FCFER43220	Ferrite	FB131
1	FCFER43220	Ferrite	FB132
1	FCFER43220	Ferrite	FB137
1	FCFER43220	Ferrite	FB138
1	FCFER43220	Ferrite	FB139
1	FCFER43220	Ferrite	FB140
1	FCFER43220	Ferrite	FB145
1	FCFER43220	Ferrite	FB146
1	FCFER43220	Ferrite	FB147
1	FCFER43220	Ferrite	FB148
1	FCRAD12636	SERA. 1137	HS100
1	FCRAD12636	SERA. 1137	HS101
1	FCRAD12636	SERA. 1137	HS102
1	FCRAD12636	SERA. 1137	HS103
1	FCMECT0220	Heatsink f/TO220	HS104
1	FCRAD03000	Heatsink f/ Power Module	HS105
1	FCRAD03000	Heatsink f/ Power Module	HS106
1	FCIC350000	LM35DZ	IC101
1	FCIC431000	TL431AC	IC102
1	FCIC074010	TL074	IC104
1	FCIC431000	TL431AC	IC105
1	FCREG78150	7815	IC106
1	FCREG79150	7915	IC107
1	FCIC401060	40106B	IC108
1	FCREG78050	7805	IC109
1	FCIC218000	TH2180C	IC110
1	FCIC435000	4N35	IC111
1	FCIC553410	NE5534A	IC112
1	FCIC435000	4N35	IC113
1	FCIC074010	TL074	IC114
1	FCIC435000	4N35	IC115
1	FCMICTO126	Insulant TO126	IN100
1	FCMICTO126	Insulant TO126	IN101
1	FCMICTO220	Insulant TO220	IN102
1	FCMICTO220	Insulant TO220	IN103
1	FCTERM0080	Socket 8p	J100
1	FCCTJ10050	B5P-VH	J101
1	FCCTAMP050	5P AMP MALE SOCKET	J103
1	FCCTM00080	B8B-EH-A	J104
1	FCCTM00020	B2B-EH-A	J105
1	FCCTM00020	B2B-EH-A	J107
1	FCCTAMP020	BASE 2pins MALE AMP	J108
1	FCTERM0100	Jumper Pin	J109
1	FCTERM0100	Jumper Pin	J110
1	FCTERM0100	Jumper Pin	J111
1	FCTERM0100	Jumper Pin	J112
1	FCCTM00030	B3B-EH-A	J113
1	FCCTM00050	B5B-EH-A	J115

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCREL00300	TQ2-12V	K101
1	FCIND00100	1u	L101
1	FCMJ000100	Jumper	MJ101
1	FCMJ000100	Jumper	MJ102
1	FCPINZAM00	Clamp WD. 00.2636	MP100
1	FCPINZAM00	Clamp WD. 00.2636	MP101
1	FCPINZAM00	Clamp WD. 00.2636	MP102
1	FCPINZAM00	Clamp WD. 00.2636	MP103
1	FCTUE00300	Nut M3	NV100
1	FCTUE00300	Nut M3	NV101
1	FCTUE00300	Nut M3	NV102
1	FCTUE00300	Nut M3	NV103
1	FCTUE00300	Nut M3	NV104
1	FCPORF3150	3/15P	PF101
1	FCPORF0100	A0854668	PF102
1	FCPORF0100	A0854668	PF103
1	FCPORF0100	A0854668	PF104
1	FCPORF0100	A0854668	PF105
1	FCXTT08470	BC847B	Q101
1	FCXTT08170	BC817/25	Q102
1	FCXTT08570	BC857B	Q103
1	FCXTT08170	BC817/25	Q104
1	FCTR437000	BD437	Q105
1	FCTR437000	BD437	Q106
1	FCTR587000	BF587	Q107
1	FCTR588000	BF588	Q108
1	FCTR588000	BF588	Q109
1	FCTR588000	BF588	Q110
1	FCTR150000	BUH150	Q111
1	FCTR150310	MJE15031	Q112
1	FCTR150000	BUH150	Q113
1	FCTR150310	MJE15031	Q114
1	FCTR360000	IRFP360	Q115
1	FCTR360000	IRFP360	Q116
1	FCXTT08470	BC847B	Q117
1	FCXTT08470	BC847B	Q118
1	FCXTT08470	BC847B	Q119
1	FCXTT08470	BC847B	Q120
1	FCTI246000	BTB24600B	Q121
1	FCTR360000	IRFP360	Q122
1	FCTR360000	IRFP360	Q123
1	FCTR360000	IRFP360	Q126
1	FCTR360000	IRFP360	Q127
1	FCTR360000	IRFP360	Q130
1	FCTR360000	IRFP360	Q131
1	FCTR360000	IRFP360	Q132
1	FCTR360000	IRFP360	Q133
1	FCTR360000	IRFP360	Q134
1	FCTR360000	IRFP360	Q135
1	FCTR360000	IRFP360	Q138
1	FCTR360000	IRFP360	Q139
1	FCTR360000	IRFP360	Q142
1	FCTR360000	IRFP360	Q143
1	FCXTT08570	BC857B	Q144

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCXTT08570	BC857B	Q145
1	FCXR151000	100k0	R101
1	FCXR151000	100k0	R102
1	FCXR138250	8k25	R103
1	FCXR132210	2k21	R104
1	FCXR141000	10k0	R105
1	FCXR151000	100k0	R106
1	FCXR152260	226k	R107
1	FCXR141000	10k0	R108
1	FCXR121000	100.0	R109
1	FCXR151000	100k0	R110
1	FCXR132430	2k43	R111
1	FCXR061000	1M	R112
1	FCXR151000	100k0	R113
1	FCXR132210	2k21	R114
1	FCXR131000	1k0	R115
1	FCXR131270	1k27	R116
1	FCXR144750	47k5	R117
1	FCXR062200	2M2	R118
1	FCXR142210	22k1	R119
1	FCXR144750	47k5	R120
1	FCXR141000	10k0	R121
1	FCXR131820	1k82	R122
1	FCXR141000	10k0	R123
1	FCXR142000	20k0	R124
1	FCRJC61000	100k	R125
1	FCXR152260	226k	R126
1	FCXR151000	100k0	R127
1	FCXR142210	22k1	R128
1	FCXR062200	2M2	R129
1	FCXR148450	84k5	R130
1	FCXR151000	100k0	R131
1	FCXR142000	20k0	R132
1	FCXR141000	10k0	R133
1	FCXR121000	100.0	R134
1	FCXR152870	287k	R135
1	FCXR117500	75.0	R136
1	FCXR117500	75.0	R137
1	FCXR142000	20k0	R138
1	FCXR141000	10k0	R139
1	FCXR135110	5k11	R140
1	FCXR131820	1k82	R141
1	FCXR151000	100k0	R142
1	FCXR131000	1k0	R143
1	FCXR142000	20k0	R144
1	FCXR061000	1M	R145
1	FCXR131820	1k82	R146
1	FCXR134750	4k75	R147
1	FCXR131000	1k0	R148
1	FCXR151000	100k0	R149
1	FCXR131000	1k0	R150
1	FCXR131000	1k0	R151
1	FCXR141000	10k0	R152
1	FCXR147150	71k5	R153

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCXR071000	10M	R154
1	FCXR121780	178	R155
1	FCXR141000	10k0	R156
1	FCXR131000	1k0	R157
1	FCXR131000	1k0	R158
1	FCXR127870	787	R159
1	FCXR121780	178	R160
1	FCXR127870	787	R161
1	FCXR121780	178	R162
1	FCXR131500	1k50	R163
1	FCXR131500	1k50	R164
1	FCXR131210	1k21	R165
1	FCRJP44700	4k7-CMET	R166
1	FCXR113320	33.2	R167
1	FCRC236800	680/ 1/2	R168
1	FCXR151000	100k0	R169
1	FCXR151000	100k0	R170
1	FCXR128250	825	R171
1	FCXR141000	10k0	R172
1	FCXR141000	10k0	R173
1	FCXR113320	33.2	R174
1	FCRC236800	680/ 1/2	R175
1	FCXR115620	56.2	R176
1	FCXR115620	56.2	R177
1	FCRF221000	NF10/1/2	R178
1	FCRF221000	NF10/1/2	R179
1	FCRF426800	NF68/1	R180
1	FCRF426800	NF68/1	R181
1	FCRF221800	NF18/ 1/2	R182
1	FCRF221800	NF18/ 1/2	R183
1	FCRY000100	W0.22/5	R184
1	FCRY000100	W0.22/5	R185
1	FCXR151500	150k0	R186
1	FCRY000250	6.8/5W	R187
1	FCXR151500	150k0	R188
1	FCXR121000	100.0	R189
1	FCXR121000	100.0	R190
1	FCXR131000	1k0	R191
1	FCXR131000	1k0	R192
1	FCXR143320	33k2	R193
1	FCXR143320	33k2	R194
1	FCXR142210	22k1	R195
1	FCXR143320	33k2	R196
1	FCXR143320	33k2	R197
1	FCXR142210	22k1	R198
1	FCXR121000	100.0	R199
1	FCXR125620	562	R200
1	FCXR121000	100.0	R201
1	FCXR125620	562	R202
1	FCXR123010	301	R203
1	FCXR123010	301	R204
1	FCXR151000	100k0	R205
1	FCXR115620	56.2	R206
1	FCRC521000	10/2	R207

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCXR151500	150k0	R208
1	FCXR115620	56.2	R209
1	FCRC512200	2.2/2	R210
1	FCXR151000	100k0	R211
1	FCRC553300	33K/2	R212
1	FCRF221800	NF18/ 1/2	R213
1	FCRF221800	NF18/ 1/2	R214
1	FCRY000100	W0.22/5	R215
1	FCRY000100	W0.22/5	R216
1	FCRF221800	NF18/ 1/2	R221
1	FCRF221800	NF18/ 1/2	R222
1	FCRY000100	W0.22/5	R223
1	FCRY000100	W0.22/5	R224
1	FCRF221800	NF18/ 1/2	R229
1	FCRF221800	NF18/ 1/2	R230
1	FCRY000100	W0.22/5	R231
1	FCRY000100	W0.22/5	R232
1	FCRF221800	NF18/ 1/2	R233
1	FCRF221800	NF18/ 1/2	R234
1	FCRY000100	W0.22/5	R235
1	FCRY000100	W0.22/5	R236
1	FCRF221800	NF18/ 1/2	R237
1	FCRF221800	NF18/ 1/2	R238
1	FCRY000100	W0.22/5	R239
1	FCRY000100	W0.22/5	R240
1	FCRF221800	NF18/ 1/2	R245
1	FCRF221800	NF18/ 1/2	R246
1	FCRY000100	W0.22/5	R247
1	FCRY000100	W0.22/5	R248
1	FCRF221800	NF18/ 1/2	R253
1	FCRF221800	NF18/ 1/2	R254
1	FCRY000100	W0.22/5	R255
1	FCRY000100	W0.22/5	R256
1	FCXR126040	604	R257
1	FCXR151000	100k0	R258
1	FCXR141000	10k0	R259
1	FCXR152050	205k	R260
1	FCXR151000	100k0	R261
1	FCXR141000	10k0	R262
1	FCXR135110	5k11	R263
1	FCXR141000	10k0	R264
1	FCXR131000	1k0	R265
1	FCXR131000	1k0	R266
1	FCXR141000	10k0	R267
1	FCXR135110	5k11	R268
1	FCXR149090	90k9	R269
1	FCXR115620	56.2	R270
1	FCXR000000	0	RX100
1	FCXR000000	0	RX101
1	FCT8040060	Screw M4x6 SPAN	SC100
1	FCT8040060	Screw M4x6 SPAN	SC101
1	FCT8040060	Screw M4x6 SPAN	SC102
1	FCT8040060	Screw M4x6 SPAN	SC103
1	FCT8040060	Screw M4x6 SPAN	SC104

OLD VERSION

PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCT8040060	Screw M4x6 SPAN	SC105
1	FCT8040060	Screw M4x6 SPAN	SC106
1	FCT8040060	Screw M4x6 SPAN	SC107
1	FCT8040060	Screw M4x6 SPAN	SC108
1	FCT8040060	Screw M4x6 SPAN	SC109
1	FCT8040060	Screw M4x6 SPAN	SC110
1	FCT8040060	Screw M4x6 SPAN	SC111
1	FCT8030100	Screw M3x10 SPA	SC112
1	FCT8030100	Screw M3x10 SPA	SC113
1	FCT8030150	Screw 3x15 SPIRALFORM	SC114
1	FCT8030150	Screw 3x15 SPIRALFORM	SC115
1	FCT8030100	Screw M3x10 SPA	SC116
1	FCT8030100	Screw M3x10 SPA	SC117
1	FCT7503010	Screw M3x10	SC118
1	FCT7503010	Screw M3x10	SC119
1	FCT7503010	Screw M3x10	SC120
1	FCT7503010	Screw M3x10	SC121
1	FCT8030150	Screw M3x15	SC122
1	FCSEPPM000	Plastic Spacer f/board ct.	SC123
1	FCT8030150	Screw 3x15 SPIRALFORM	SC124
1	FCT8030150	Screw 3x15 SPIRALFORM	SC125
1	FCSEPPM000	Plastic Spacer f/board ct.	SC126
1	FCSEPPM000	Plastic Spacer f/board ct.	SC127
1	FCSEPPM000	Plastic Spacer f/board ct.	SC128
1	FCTERMF280	Faston 2.8mm	TS101
1	FCTERMF280	Faston 2.8mm	TS102
1	FCTERMF280	Faston 2.8mm	TS103
1	FCTERMF280	Faston 2.8mm	TS104
1	FCMECPON19	19mm	W100
1	FCMECPON19	19mm	W101
1	FCMECPON19	19mm	W102
1	FCMECPON19	19mm	W103
1	FCMECPON19	19mm	W104
1	FCMECPON19	19mm	W105
1	FCMECPON19	19mm	W106
1	FCMECPON19	19mm	W107
1	FCMECPON19	19mm	W108
1	FCMECPON19	19mm	W109
1	FCMECPON19	19mm	W110
1	FCMECPON19	19mm	W111
1	FCMECPON19	19mm	W112
1	FCMECPON19	19mm	W113
1	FCMECPON19	19mm	W114
1	FCMECPON19	19mm	W115
1	FCMECPON19	19mm	W116
1	FCMECPON19	19mm	W117
1	FCMECPON19	19mm	W118
1	FCMECPON19	19mm	W119
1	FCMECPON19	19mm	W120
1	FCMECPON19	19mm	W121
1	FCMECPON19	19mm	W122
1	FCMECPON19	19mm	W123
1	FCMECPON19	19mm	W124
1	FCMECPON19	19mm	W125

OLD VERSION

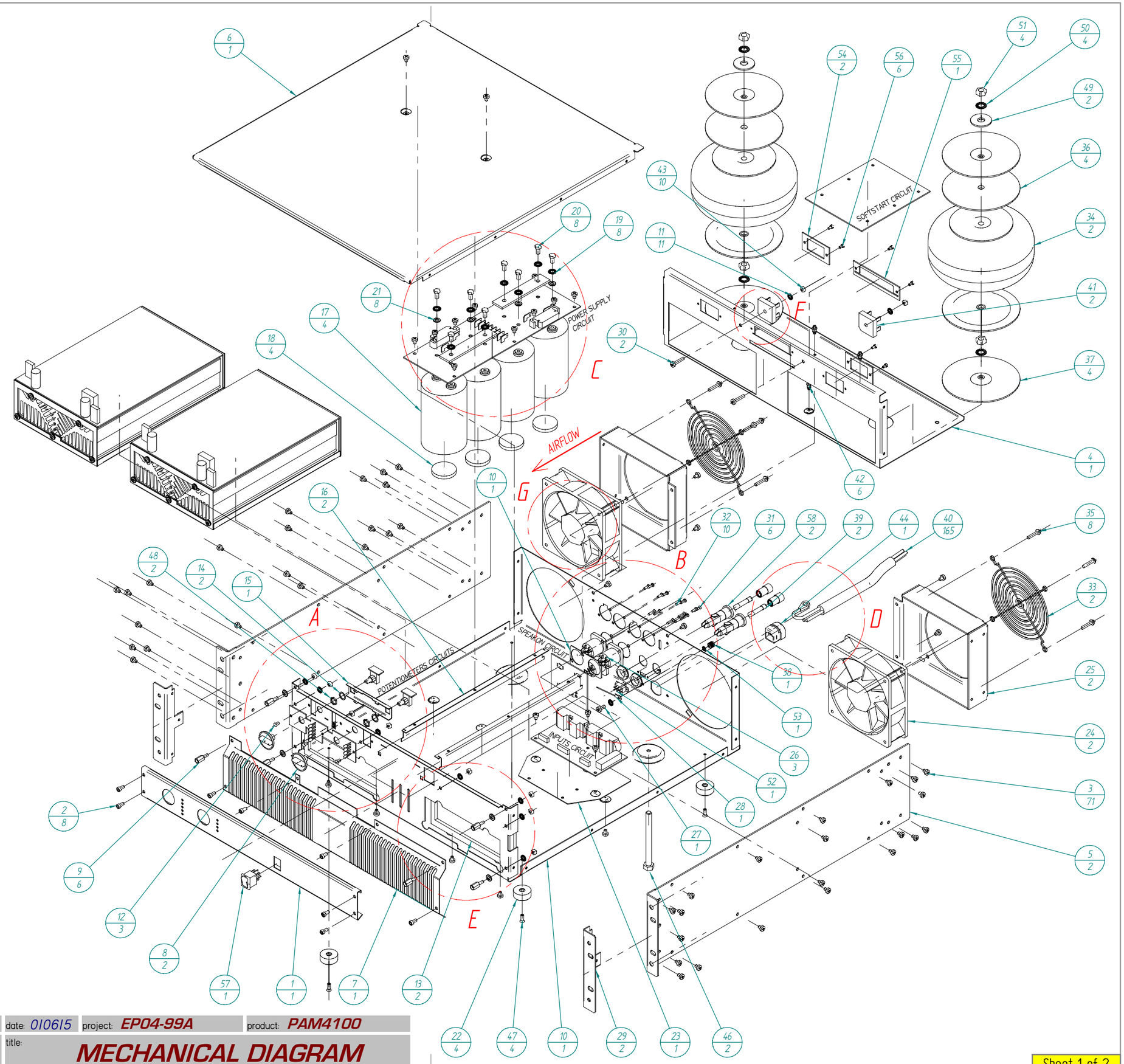
PARTS LIST: PRINTED CIRCUIT 11.0730.07.00

Q	Code	Description	Reference
1	FCMECPON19	19mm	W126
1	FCMECPON19	19mm	W127
1	FCMECPON19	19mm	W128
1	FCMECPON19	19mm	W129
1	FCMECPON19	19mm	W130
1	FCMECPON19	19mm	W131
1	FCMECPON19	19mm	W132
1	FCMECPON19	19mm	W133
1	FCMECPON19	19mm	W134
1	FCMECPON19	19mm	W135
1	FCMECPON19	19mm	W136
1	FCMECPON19	19mm	W137
1	FCMECPON19	19mm	W138
1	FCMECPON19	19mm	W139
1	FCMECPON19	19mm	W140
1	FCMECPON19	19mm	W141
1	FCMECPON19	19mm	W142
1	FCMECPON19	19mm	W143
1	FCMECPON19	19mm	W144
1	FCMECPON19	19mm	W145
1	FCMECPON19	19mm	W146
1	FCMECPON19	19mm	W147
1	FCARM32000	Metal Washer 3.2x6x0.5	WA100
1	FCARM32000	Metal Washer 3.2x6x0.5	WA101
1	FCARM32000	Metal Washer 3.2x6x0.5	WA102
1	FCARM32000	Metal Washer 3.2x6x0.5	WA103
1	FCARM32000	Metal Washer 3.2x6x0.5	WA104
1	FCARDE0300	Toothed Washer f/M3	WA105
1	FCARM32000	Metal Washer 3.2x6x0.5	WA106
1	FCARDE0300	Toothed Washer f/M3	WA107
1	FCARDE0300	Toothed Washer f/M3	WA108
1	FCARDE0300	Toothed Washer f/M3	WA109
1	FCARDE0300	Toothed Washer f/M3	WA110
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA111
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA112
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA113
1	FCARM32000	Metal Washer 3.2x6x0.5	WA114
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA115
1	FCARAT1000	Isolator Washer 5.1x13.1x1.6	WA116
1	FCARAT1000	Isolator Washer 5.1x13.1x1.6	WA117
1	FCARAT1000	Isolator Washer 5.1x13.1x1.6	WA118
1	FCARAT1000	Isolator Washer 5.1x13.1x1.6	WA119
1	FCARM32000	Metal Washer 3.2x6x0.5	WA120
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA121
1	FCARAT0000	Washer Ins. Tr. 3x5.3x1.7	WA122
1	FC4G081100	1081.01.00	WI101

OLD VERSION

N°	Qty	ECLER Code	Description
1	1	FCMECPM600	PAM FRONT PANEL
2	8	FCTALL4080	SCREW DIN912 M4x8 ALLEN
3	71	FCT8040060	SCREW DIN 7985 M4x6 SPANLO B
4	1	FCMECPM640	MECHANICAL INTERIOR REINFORCEMENT
5	2	FCMECPM520	LEFT/RIGHT AMPLIFIER SIDE
6	1	FCMECPM570	TOP COVER EP04-99
7	1	FCMECPM650	INFERIOR FRONT PANEL
8	2	FCBOTD2400	ROTARY KNOB D24
9	6	FCSEP07000	FRONTPLATE SPACER PAM PL.1636
10	1	FCMECPM540	BASE CHASSIS
11	11	FCARDE0400	EXT. TOOTHED WASHER M4
12	3	FCREM13030	NYLON RIVET UNEX1303
13	2	FCGOES6000	FRONTAL ISOLATOR FOAM
14	2	FCARDEPOTE	ROTARY POT. WASHER M9
15	1	FCMECPM580	POTS CIRCUIT MECHANICAL SUPPORT
16	2	FCMECPM610	POWER SUPPLY SUPPORT ANGLE
17	4	FCCE341400	ELECTROLITIC CAPACITOR 12000/170V
18 *	4 *	FCGOES6000 *	POWER SUPPLY CAPACITOR FOAM *
19	8	FCARDE0500	EXT. TOOTHED WASHER M5
20	8	FCT1005010	SCREW DIN933E M5x10 EXZNAM
21	8	FCARM52000	WASHER 5,2X10X1 MET PLAT.
22	4	FCPIE11250	FEET 11x25
23	1	FCMECPM670	INPUT BOARD MECHANICAL SHIELD
24	2	FCVEN12000	FAN 12 VDC 120x120
25	2	FCMECPM500	EXTERIOR FAN REINFORCEMENT
26	3	FCBASS0100	SPEAKON SOCKET MALE 4C
27	1	FCT8504110	SCREW DIN 7500 M4x10 TRILOB W
28	1	GENERIC	GROUND CABLE
29	2	FCMECPM660	LEFT/RIGHT FRONTAL EAR
30	2	FCT7004020	SCREW DIN 7985 M4x20 CCZNAM
31	6	FCT5002913	SCREW DIN7982 M2,9x13 CPRCNI
32	10	FCT4002909	SCREW DIN7981F 2,9x9,5 CCRC BLACK
33	2	FCREJ12000	FAN GRILLE 120x120
34	2	FCTFT02100	TOROIDAL TRANSFORMER EP04-99A
35	8	FCT0605120	SCREW 5,1x20
36	4	GENERIC	TRANSFORMER RUBBER DISC
37	4	GENERIC	TRANSFORMER PLATE D60
38	1	FCBOR00300	GROUND TERMINAL 00.1761
39	2	FCFUS60400	FUSE 6x32 16A
40	165	FCCONX0180	MAINS CORD 3X6 (UNITS IN CM)
41	2	FCREC50060	BRIDGE RECTIFIER FB5006
42	6	FCSOPMSP40	PLASTIC SPACER MSP-4N
43	10	FCTUE00400	NUT M4 DIN 934
44	1	FCPC00DM80	BUSHING DM8
45	1	FCMECPM620	SPEAK ON SUPPORT PLATE
46	2	GENERIC	SCREW M8 TRANSFORMER
47	4	FCT8040120	SCREW M4x12 DIN965 SPANLO
48	2	FCTUPOT000	ROTARY POT. NUT M9
49	2	FCARM10500	WASHER 10,5X30X2,5 MET ZN
50	4	GENERIC	TRANSFORMER TOOTHED WASHER M8
51	4	GENERIC	TRANSFORMER NUT M8
52	1	FCINTD2000	GROUND LINK SWITCH
53	1	FCARS40000	SEGMENTED WASHER M4 WHITE
54	2	GENERIC	EDGE PROTECTION FIBER CIRCUIT
55	1	GENERIC	EDGE PROTECTION FIBER CIRCUIT
56	6	FCT8503005	SCREW DIN7500C M3x5 REDUCED HEAD
57	1	FCINTRED20	MAINS SWITCH W/LIGHT
58	2	FCPORF0655	FUSE HOLDER 6X32 T0347RA AAA

** 4 UNITS ASSEMBLED IN 2 CODES FCGOES6000*

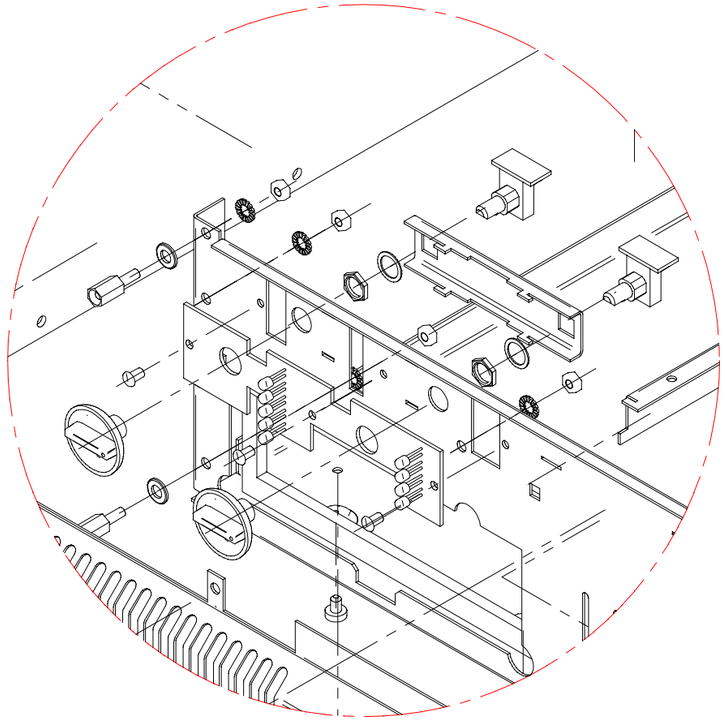


ECLER

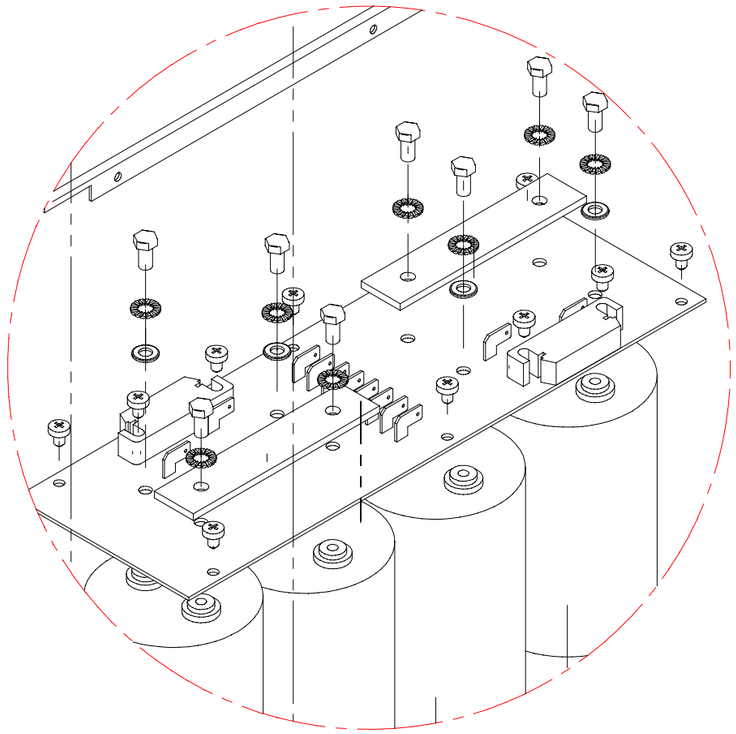
drawn: Jordi Folch | date: 010615 | project: EP04-99A | product: PAM4100

approved: | title: **MECHANICAL DIAGRAM**

number: 30.0145 | version 01.02

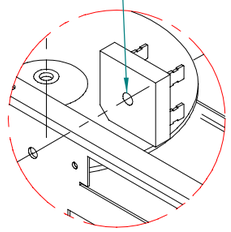


DETAIL A



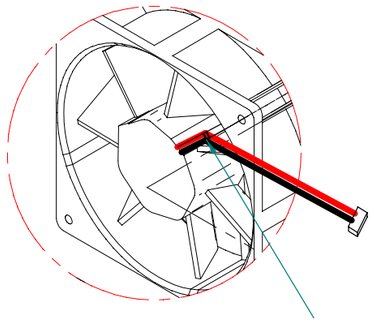
DETAIL C

INSERT THERMAL GREASE
BETWEEN BRIDGE RECTIFIER
AND MECHANICAL SUPPORT



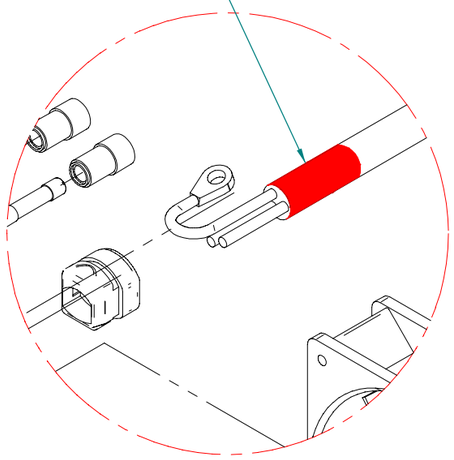
DETAIL F

DETAIL G

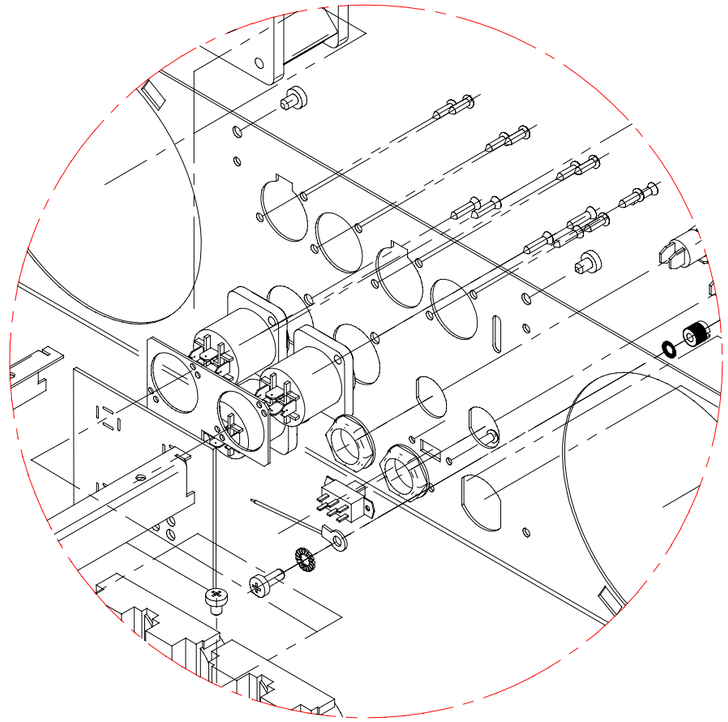


EXTRACT THE WIRES OF FAN
DIRECTLY FROM CENTER

INSERT THE MAINS CORD 25mm
INTO THE BASE CHASSIS

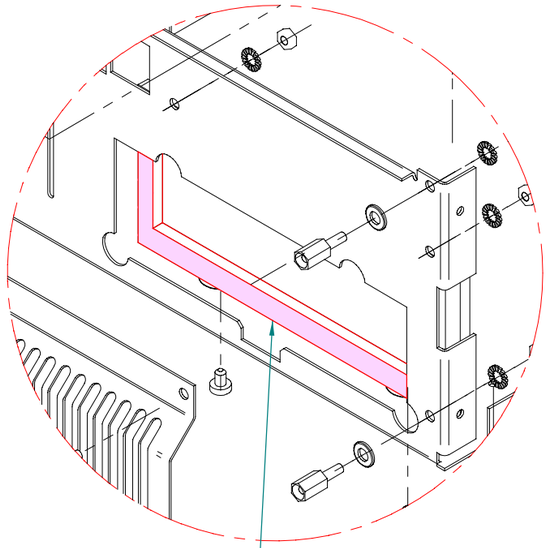


DETAIL D



DETAIL B

DETAIL E



STICK THE FRONTAL ISOLATOR FOAM IN
THE INTERIOR FRONTAL IN BASE CHASSIS.
BE CAREFUL TO COINCIDE PERFECTLY
WITH MECHANICAL WINDOW.

ECLEREE

drawn: Jordi Folch | date: 010619 | project: EP04-99A | product: PAM4100

approved: | title: **MECHANICAL DIAGRAM DETAILS**

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