

ALESIS MULTIMIX8FX XA1 SERVICE MANUAL



Quick Links

- [Wiring Diagram](#)
- [Explode Diagram](#)

Table of Contents

- [Specifications](#)
- [DISASSEMBLY PROCEDURES](#)
- [WIRING DIAGRAM](#)
- [PACKING DIAGRAM](#)
- [EXPLODE DIAGRAM](#)
- [Other ManualsLib Projects](#)

ALESIS

MultiMix8FX (XA1)

Service Manual

P/N: 8-31-0127-A

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Alesis Service Manual

8-31-0127-A

Preface

This document is intended to assist the service technician in the operation, maintenance and repair of the Alesis device. Together with the User Reference Manual, this document provides a complete description of the functionality and serviceability of the Device. Any comments or suggestions you may have pertaining to the document are welcome and encouraged.

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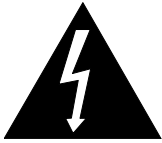
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Warnings

TO REDUCE THE RISK OF ELECTRIC SHOCK OR FIRE, DO NOT EXPOSE THIS PRODUCT TO WATER OR MOISTURE.



The arrowhead symbol on a lightning flash inside a triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the enclosed product which may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point inside a triangle is intended to alert the user to the presence of important operating, maintenance and servicing instructions in the literature which accompanies the product.

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Regarding the Power Supply Fuse



CAUTION: The product under service may employ the use of a replaceable fuse. Danger of fire or electrocution if fuse is incorrectly replaced. Replace with only the same type or equivalent type recommended by the equipment manufacturer.

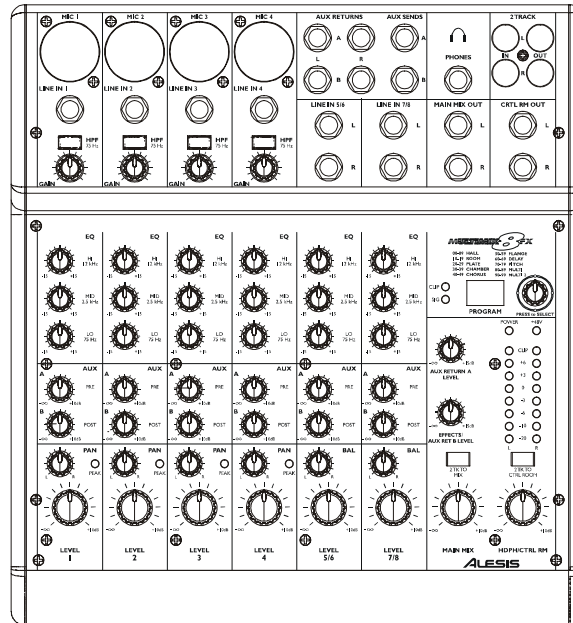
Safety Suggestions

Carefully read the applicable items of the operating instructions and these safety suggestions before using this product. Use extra care to follow the warnings written on the product itself and in the operating instructions. Keep the operating instructions and safety suggestions for reference in the future.

1. Power Source. The product should only be connected to a power supply which is described either in the operating instructions or in markings on the product.
2. Power Cord Protection. AC power supply cords should be placed such that no one is likely to step on the cords and such that nothing will be placed on or against them.
3. Periods of Non-use. If the product is not used for any significant period of time, the product's AC power supply cord should be unplugged from the AC outlet.
4. Foreign Objects and Liquids. Take care not to allow liquids to spill or objects to fall into any openings of the product.
5. Water or Moisture. The product should not be used near any water or in moisture.
6. Heat. Do not place the product near heat sources such as stoves, heat registers, radiators or other heat producing equipment.
7. Ventilation. When installing the product, make sure that the product has adequate ventilation. Improperly ventilating the product may cause overheating, which may damage the product.
8. Mounting. The product should only be used with a rack which the manufacturer recommends. The combination of the product and rack should be moved carefully. Quick movements, excessive force or uneven surfaces may overturn the combination which may damage the product and rack combination.
9. Cleaning. The product should only be cleaned as the manufacturer recommends.
10. Service. The user should only attempt the limited service or upkeep specifically described in the operating instructions for the user. For any other service required, the product should be taken to an authorized service center as described in the operating instructions.
11. Damage to the Product. Qualified service personnel should service the unit in certain situations including without limitation when:
 - a. Liquid has spilled or objects have fallen into the product,
 - b. The product is exposed to water or excessive moisture,
 - c. The AC power supply plug or cord is damaged,
 - d. The product shows an inappropriate change in performance or does not operate normally, or
 - e. The enclosure of the product has been damaged.

SERVICE MANUAL

MODEL: MULTIMIX 8FX



Effects Section Components

Program Selection Knob

You can use this knob to assign one of 100 effect programs to your mix. Turning the knob to the right increments the program number, and turning it to the left decrements the program number. You can control the level of the effect for each channel via the channel's AUX B knob. You must PRESS the effect knob to activate the selected effect.

LED Display

This display shows you the number of the current program.

CLIP Indicator

When lit, this LED tells you that there is a signal clip at the internal effects input. This means that you should reduce the signal via the EFFECTS / AUX RET B LEVEL control.

SIG Indicator

When lit, this LED indicates that the effects processor is receiving a signal.

Effect Descriptions

HALL

This type of reverb simulates the ambience of a grand concert hall.

ROOM

This type of reverb reproduces the more intimate ambience of natural room acoustics.

PLATE

These are simulations of metal plate reverbs, as used on classic recordings from the '70s and '80s.

CHAMBER

These are simulations of the reverb created by artificial echo chambers, as used on classic recordings of the '50s and '60s.

CHORUS

These create the effect of multiple voices (or instruments) sounding at once from a single input.

FLANGE

These create a sweeping, swooshing sound effect that you will probably recognize.

DELAY

These effects are based on a discreet repetition or echo of the input.

PITCH

These effects transpose the pitch of the input signal and blend the effect signal with the original to create harmonies.

MULTI & MULTI II

These are combinations of two or more of the above effects.

Specifications

For the more technical-minded, here are some detailed specifications for the MultiMix's operating levels.

Input Channels

Mic In Sensitivity Range: -60dBu to -10dBu nominal, +5dBu Maximum

Line In Sensitivity Range: -40dBu to -10dBu nominal, +25dBu maximum

Mic/Line Gain Range: +10 to +60dB

Equalization

High-Pass Filter: 75Hz, 18dB/octave

High Shelving: 12kHz, +/- 15dB

Mid Bandpass/Band Reject: 2.5 kHz, +/- 15dB

Low Shelving: 80Hz, +/- 15dB

Aux Sends

Aux Send A & B Gain Range: $-\infty$ to +10dB

Aux Returns

Aux Return A Gain Range: $-\infty$ to +15dB

Effects Level/

Aux Return B Gain Range: $-\infty$ to +15dB

Channel Levels

Channel Level Gain Range: $-\infty$ to +10dB

Master Levels

Main Mix, Ctrl Room Gain

Range: $-\infty$ to +10dB

1/4" Inputs

Stereo Aux Return Level: +4dBu nominal, +20dBu maximum

RCA Inputs

Tape In Level: -10dBV nominal, +5dBV maximum

1/4" Outputs

Main Mix, Ctrl Room,

Ext Aux Send Level: +4dBu nominal, +20dBu maximum

Headphone Output: 75 ohm output impedance

>105mW into 75 ohms, >40mW

into 600ohms

RCA Outputs

Tape Out Level: -10dBV nominal, +5dBV maximum

DISASSEMBLY PROCEDURES

1. REMOVAL OF TOP PANEL/BOTTOM PANEL (Fig1)

- (A) TAKE OUT THE 12 PCS SCREW FROM WHICH THE TOP PANEL
- (B) TAKE OUT THE 7 PCS SCREW FROM WHICH THE BOTTOM PANEL

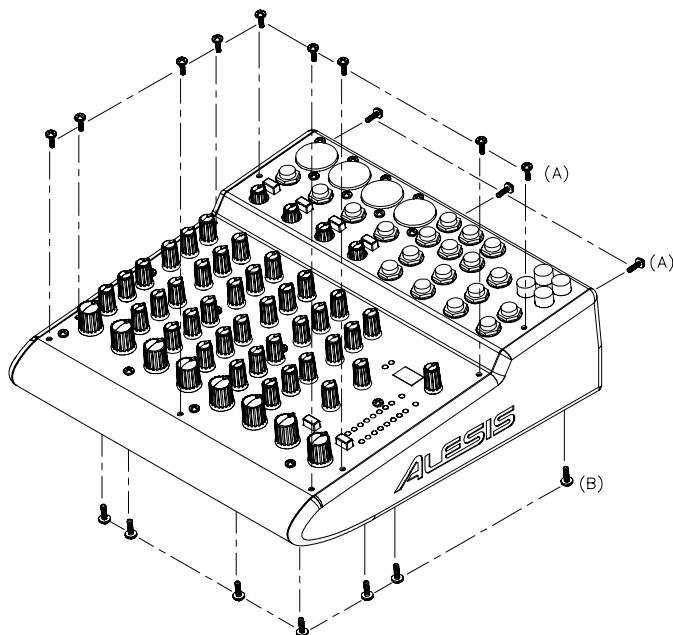


Fig.1

2. REMOVAL OF MAIN P.C.B (Fig2)

- (A) REMOVE THE 47 PCS KNOB FROM WHICH THE TOP PANEL
- (B) REMOVE THE 19 PCS NUT AND 19 PCS WASHER FROM WHICH THE TOP PANEL
- (C) REMOVE THE 17 PCS SCREW FROM WHICH THE TOP PANEL

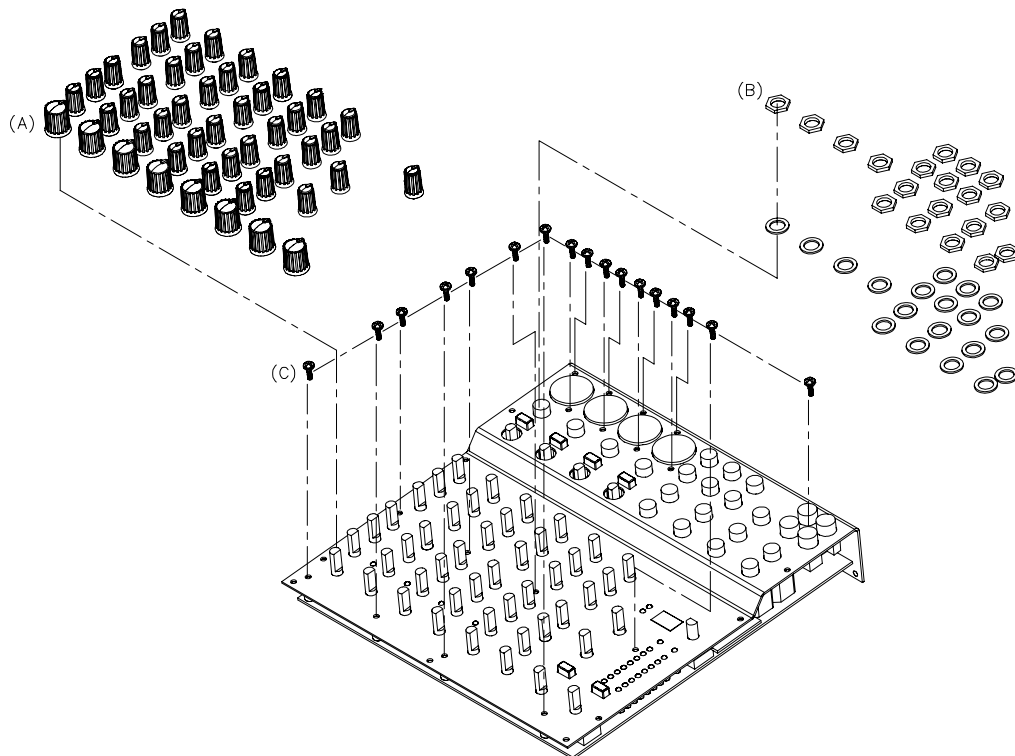


Fig.2

3.REMOVAL OF POWER P.C.B (Fig.3)

(A) REMOVE THE 2 PCS SCREWS FROM THE POWER P.C.B

(B) REMOVE THE 2 PCS SCREWS FROM THE BRACKET

(C) REMOVE THE 3 PC OF CABLE CONNECTOR FROM THE POWER P.C.B

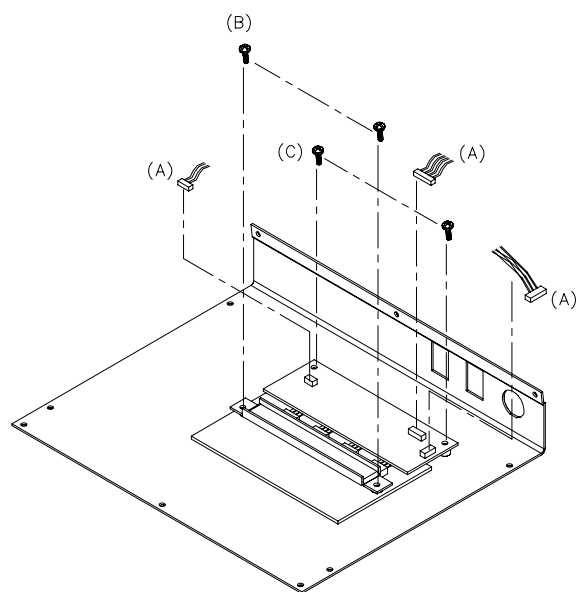
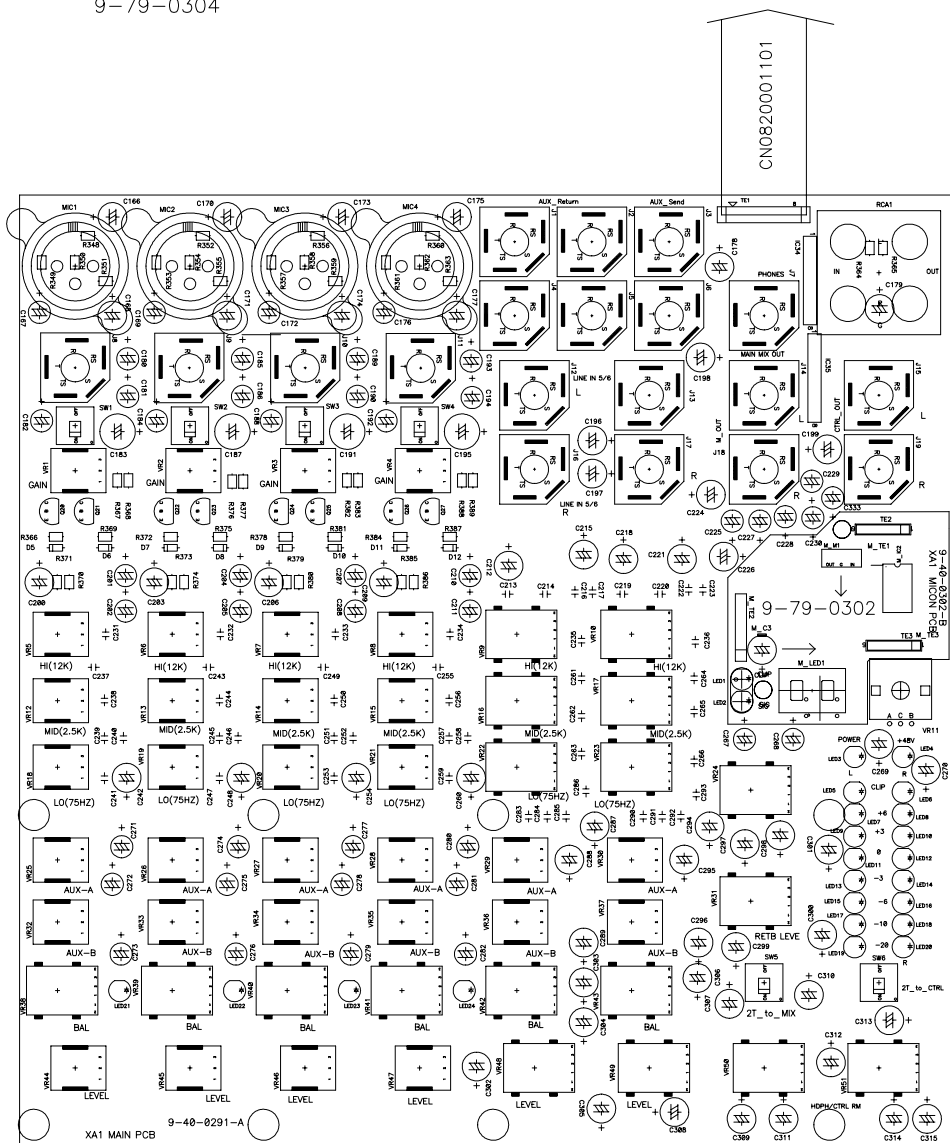
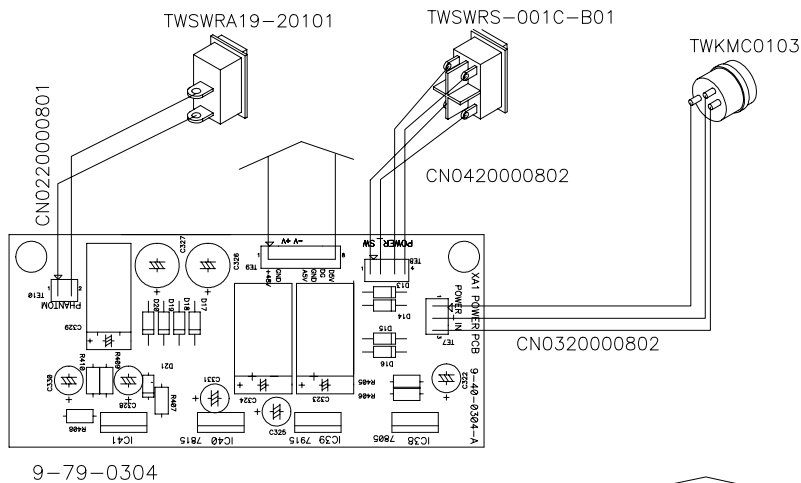


Fig.3

WIRING DIAGRAM

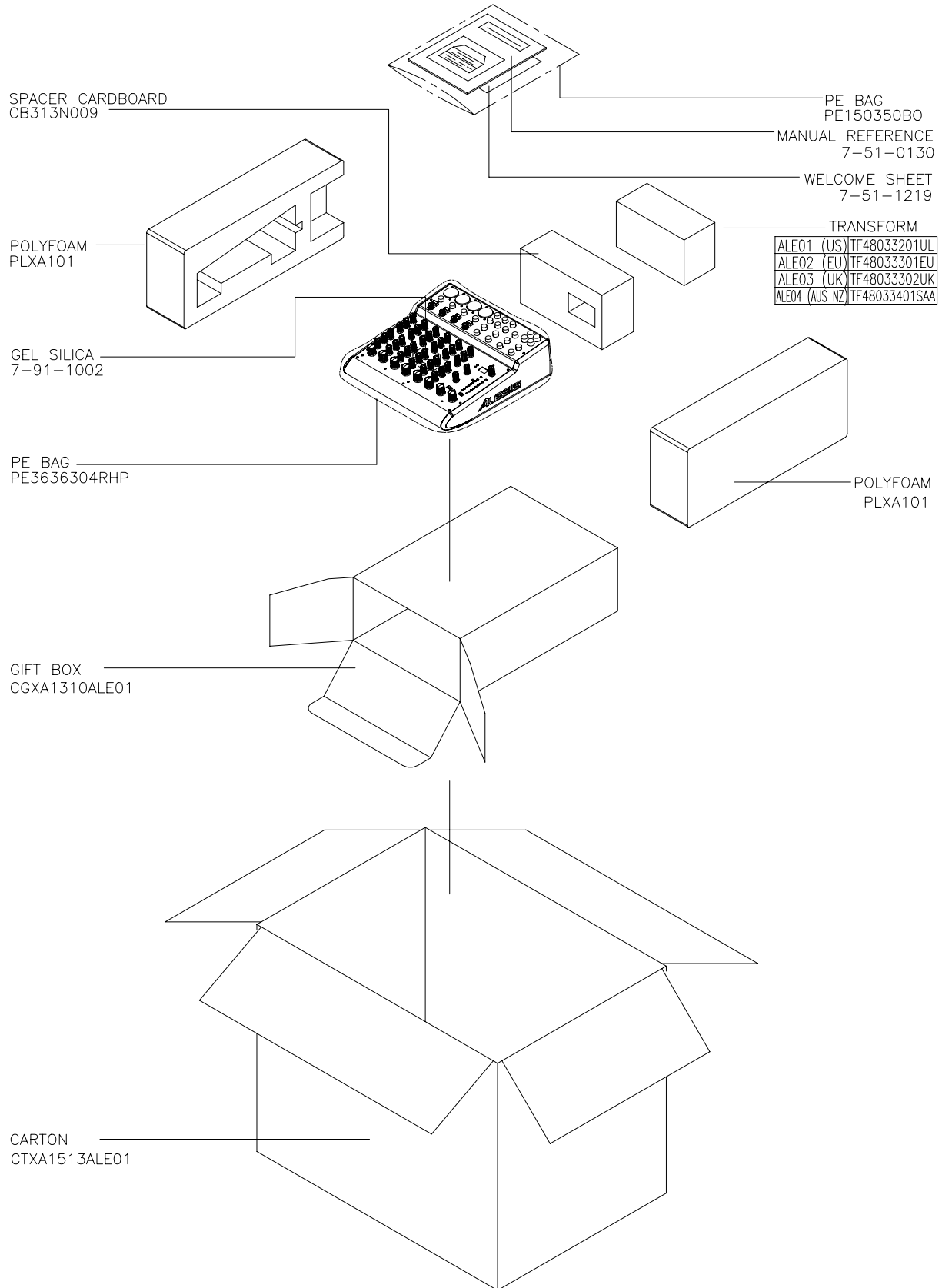
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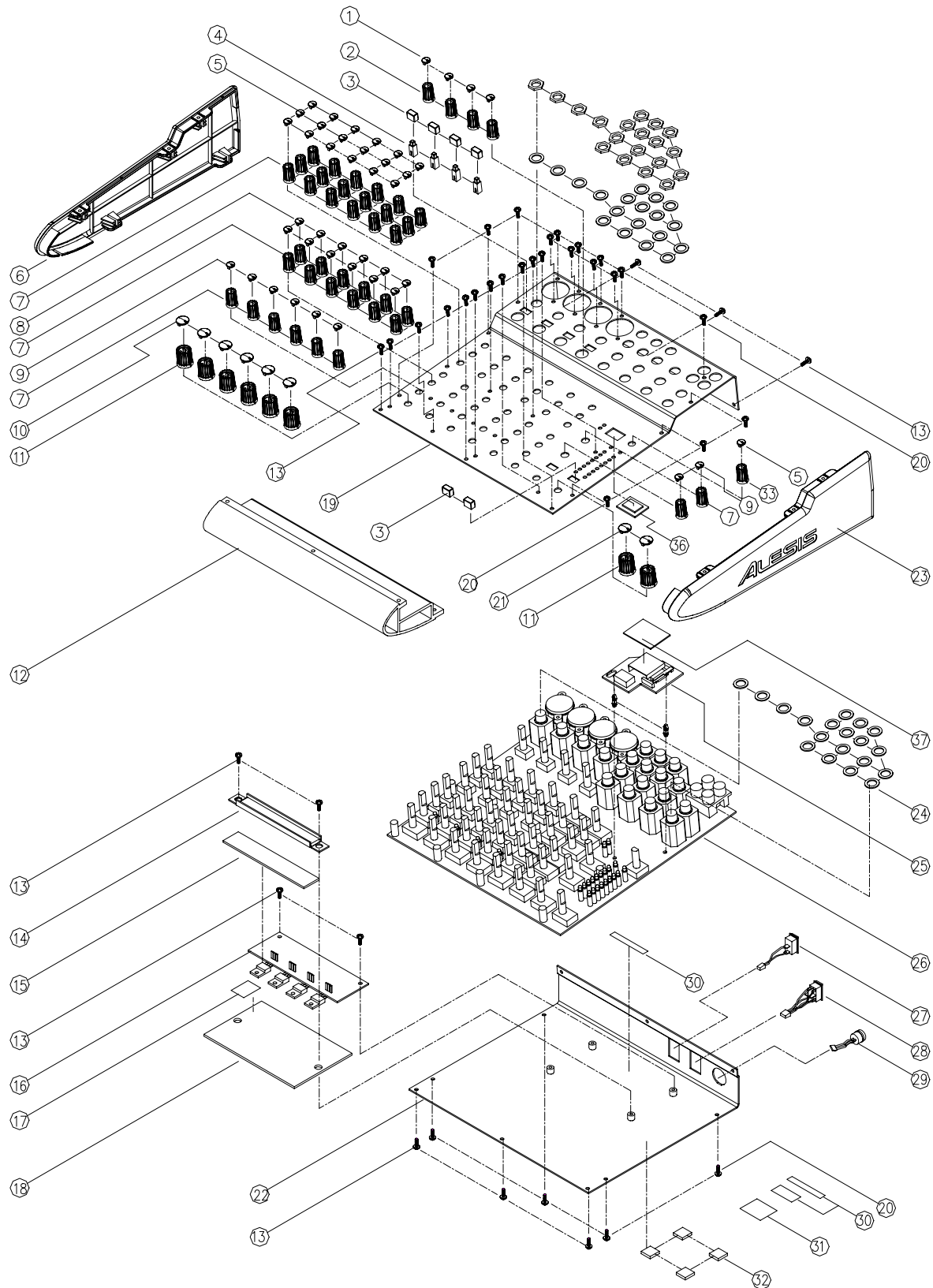
PACKING DIAGRAM

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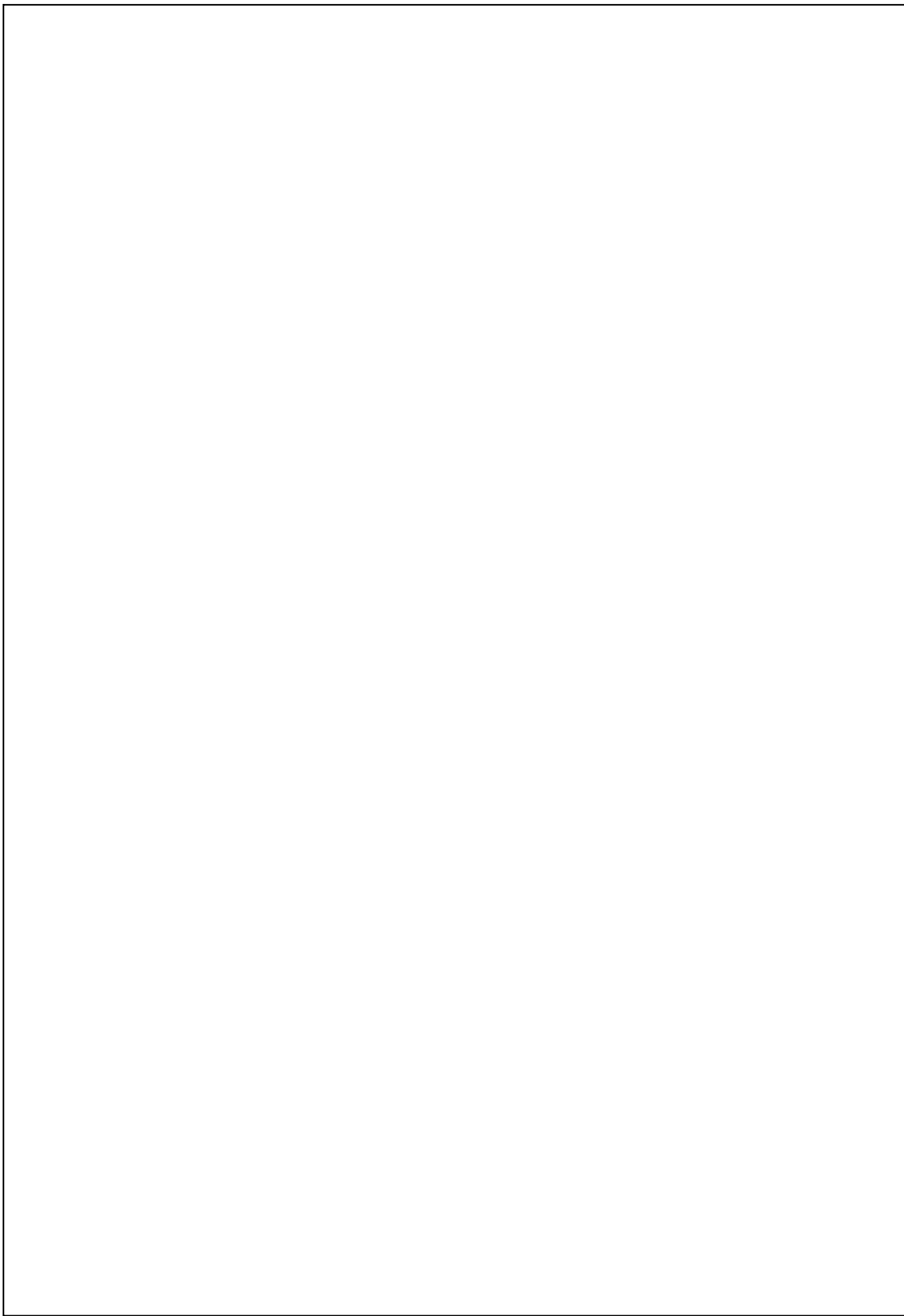


EXPLODE DIAGRAM

(US/EU/UK/AUS NZ)



SEQUENTIAL NO OF EXPLODE DIAGRAM WILL BE MARKED ON REF. COLUMN OF BOM LIST



ALESIS

MultiMix8FX (XA1)

BOM

MULTIMIX 8FX BOM

LEVEL	P/N	DESCRIPTION	QTY	REF
1	BATO-220	GASKET	1	17
1	LAC22ALE11	STICKER BARCODE UPC	1	30
1	7-53-0228	STICKER COMPLIANCE	1	31
1	7-13-0037-A	PLATE METAL THERMAL TRANSFER	1	18
1	MT1304424	ALUMINUM PANEL	1	12
1	MT1304430	SUBPANEL	1	14
1	MT1330005	TOP PANEL	1	19
1	MT1330309	CHASSIS BOTTOM	1	22
1	9-10-0062-A	BEZEL LED DISPLAY XA SERIES MIXERS	1	36
1	9-15-0332-A	KNOB CAP LARGE BLUE	2	21
1	9-15-0378-A	KNOB CAP LARGE BLUE	6	10
1	9-15-0382-A	KNOB LARGE GREY	8	11
1	9-15-0338-A	KNOB CAP SMALL BLUE	19	5
1	9-15-0336-A	KNOB CAP SMALL GREEN	8	9
1	9-15-0337-A	KNOB CAP SMALL RED	12	8
1	9-15-0379-A	KNOB CAP SMALL BLACK	4	1
1	9-15-0380-A	KNOB SMALL GREY	38	7
1	9-15-0384-A	BUTTON CAP RECT GREY	6	3
1	PT1310629	ENDCAP PLASTIC RIGHT	1	23
1	PT1310630	ENDCAP PLASTIC LEFT	1	6
1	PT1310633	CAP SUPPORT	4	4
1	9-15-0383-A	KNOB SMALL BLACK	4	2
1	9-15-0381-A	KNOB SMALL GREY	1	33
1	PXA1ALE01	PACKING ASSEMBLY	1	
2	CB313N009	CARDBOARD	1	
2	CGXA1310ALE01	GIFT BOX	1	
2	CTXA1513ALE01	BOX SHIPPING	0.25	
2	PE150350BO	POLYBAG	0.007	
2	PE3636304RHP	POLYBAG	0.007	
2	PLXA101	FOAM ENDCAP PACKING SET	1	
2	7-51-0130	MANUAL REFERENCE	1	
2	7-51-1219	SHEET "WELCOME TO ALESIS FAMILY" 5 x 8"	1	
2	7-91-1002	GEL SILICA 5G PACKET	1	
1	RU1304402	RUBBER	1	15
1	RU1304406	RUBBER	1	37
1	SC0306RIBI	SCREW	21	13
1	TF48033201UL	TRANSFORMAT	1	
1	TWJKMC010301	POWER ASS'Y	1	29
1	TWSWRA19-20101	POWER SWITCH ASS'Y	1	27
1	TWSWRS-001C-B	POWER SWITCH ASS'Y	1	28
1	WS114009605IN	WASHER	19	24
1	5-00-1308	SCREW	19	20
1	9-23-1024	FEET RUBBER	4	32
1	9-79-029001	MIXER PCB ASS'Y	1	
2	9-40-0291	MIXER PCB	1	
2	9-79-0291	MIXER PCB ASS'Y	1	26
3	0-15-0000	RESISTOR 00 (SMD)	4	R295,298,306,323
3	0-15-0100	RESISTOR 100 (SMD)	1	R411
3	0-15-0101	RESISTOR 1000 (SMD)	2	R284,299
3	0-15-0102	RESISTOR 1K (SMD)	1	R52
3	0-15-0103	RESISTOR 10K (SMD)	39	R1,2,7,8,9,10,14,15,19,20,24,25,31,35,36,37,42,44,45,58,73,79,85,86,91,92,95,96,142,146,242,256,280,290,305,319,330,331,332
3	0-15-0104	RESISTOR 100K (SMD)	4	R220,222,324,333
3	0-15-0105	RESISTOR 1M (SMD)	8	R231,232,234,235,254,255,260,261
3	0-15-0121	RESISTOR 1200 (SMD)	19	R3,4,5,11,16,17,18,23,26,43,49,50,53,60,61,67,80,160,199

3	0-15-0152	RESISTOR 1K5 (SMD)	14	R163,208,277,278,282,283,291,292,296,297,312,313,314,315
3	0-15-0153	RESISTOR 15K (SMD)	6	R78,110,339,343,345,346
3	0-15-0203	RESISTOR 20K (SMD)	18	R6,63,64,65,66,117,125,126,127,128,134,135,136,137,227,228,229,233
3	0-15-0221	RESISTOR 220O (SMD)	1	R270
3	0-15-0222	RESISTOR 2K2 (SMD)	8	R144,145,149,150,151,152,156,157
3	0-15-0242	RESISTOR 2K4 (SMD)	2	R259,264
3	0-15-0272	RESISTOR 2K7 (SMD)	3	R154,155,209
3	0-15-0273	RESISTOR 27K (SMD)	2	R340,342
3	0-15-0303	RESISTOR 30K (SMD)	10	R33,99,100,106,107,108,111,112,113,115
3	0-15-0332	RESISTOR 3K3 (SMD)	4	R243,244,245,246
3	0-15-0362	RESISTOR 3K6 (SMD)	4	R205,212,318,320
3	0-15-0431	RESISTOR 430O (SMD)	1	R262
3	0-15-0432	RESISTOR 4K3 (SMD)	2	R241,252
3	1-15-0470	RESISTOR 47O (SMD)	1	R114
3	0-15-0471	RESISTOR 470O (SMD)	6	R116,118,123,129,258,269
3	0-15-0472	RESISTOR 4K7 (SMD)	18	R55,59,93,97,271,272,273,274,275,276,285,286,287,288,336,337,338,344
3	0-15-0473	RESISTOR 47K (SMD)	5	R265,266,267,268,307
3	0-15-0479	RESISTOR 4.7O (SMD)	4	R68,69,70,71
3	0-15-0511	RESISTOR 510O (SMD)	8	R87,88,89,90,102,103,104,105
3	0-15-0512	RESISTOR 5K1 (SMD)	33	R32,34,56,57,109,239,247,248,249,250,253,257,263,279,281,289,293,308,309,310,311,316,317,321,322,326,327,328,329,334,335,341,347
3	0-15-0560	RESISTOR 56O (SMD)	1	R147
3	0-15-0561	RESISTOR 560O (SMD)	8	R172,173,174,175,185,186,188,189
3	0-15-0562	RESISTOR 5K6 (SMD)	1	R124
3	0-15-0563	RESISTOR 56K (SMD)	4	R72,94,225,226
3	0-15-0621	RESISTOR 620O (SMD)	1	R251
3	0-15-0622	RESISTOR 6K2 (SMD)	2	R13,22
3	0-15-0623	RESISTOR 62K (SMD)	4	R119,120,121,122
3	0-15-0681	RESISTOR 680O (SMD)	1	R143
3	0-15-0682	RESISTOR 6K8 (SMD)	25	R46,47,48,51,148,200,201,202,203,204,206,207,211,213,214,215,216,217,218,221,224,301,302,303,304
3	0-15-0911	RESISTOR 910O (SMD)	19	R162,165,166,167,168,169,170,176,177,178,179,180,183,184,190,191,192,194,240
3	0-16-1001	RESISTOR 1K (SMD)1%	4	R158,159,171,182
3	0-16-1002	RESISTOR 10K (SMD)1%	17	R27,28,29,30,38,39,40,41,195,196,197,198,210,219,236,237,325
3	0-16-1301	RESISTOR 1K3 (SMD)1%	13	R74,75,76,77,81,82,83,84,138,139,140,141,238
3	0-16-1472	RESISTOR 14.7K (SMD)1%	4	R153,161,164,187
3	0-16-2001	RESISTOR 2K (SMD)1%	2	R54,62
3	0-16-2201	RESISTOR 2.2K (SMD)1%	2	R12,21
3	0-16-6041	RESISTOR 6.04K (SMD)1%	2	R98,101
3	0-16-7321	RESISTOR 7.32K (SMD)1%	4	R130,131,132,133
3	0-16-7501	RESISTOR 7K5 (SMD)	1	R230
3	0-16-8201	RESISTOR 8K2 (SMD)1%	5	R181,193,223,294,300
3	1-56-0100	CERAMIC 10P (SMD)	2	C32,40
3	1-56-0101	CERAMIC 100P (SMD)	20	C2,3,4,13,16,18,19,22,23,30,31,35,36,41,42,44,45,97,141,144
3	1-56-0102	CERAMIC 1000P (SMD)	2	C104,105
3	1-56-0103	CERAMIC 0.01UF (SMD)	1	C332
3	1-56-0104	CERAMIC 0.1UF (SMD)	69	C1,12,14,17,21,28,33,34,38,39,43,46,51,65,66,67,68,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,96,100,101,102,103,107,111,112,113,114,115,120,121,122,123,124,134,135,136,138,139,140,142,143,145,148,149,150,151,153,154,162,163,164,165

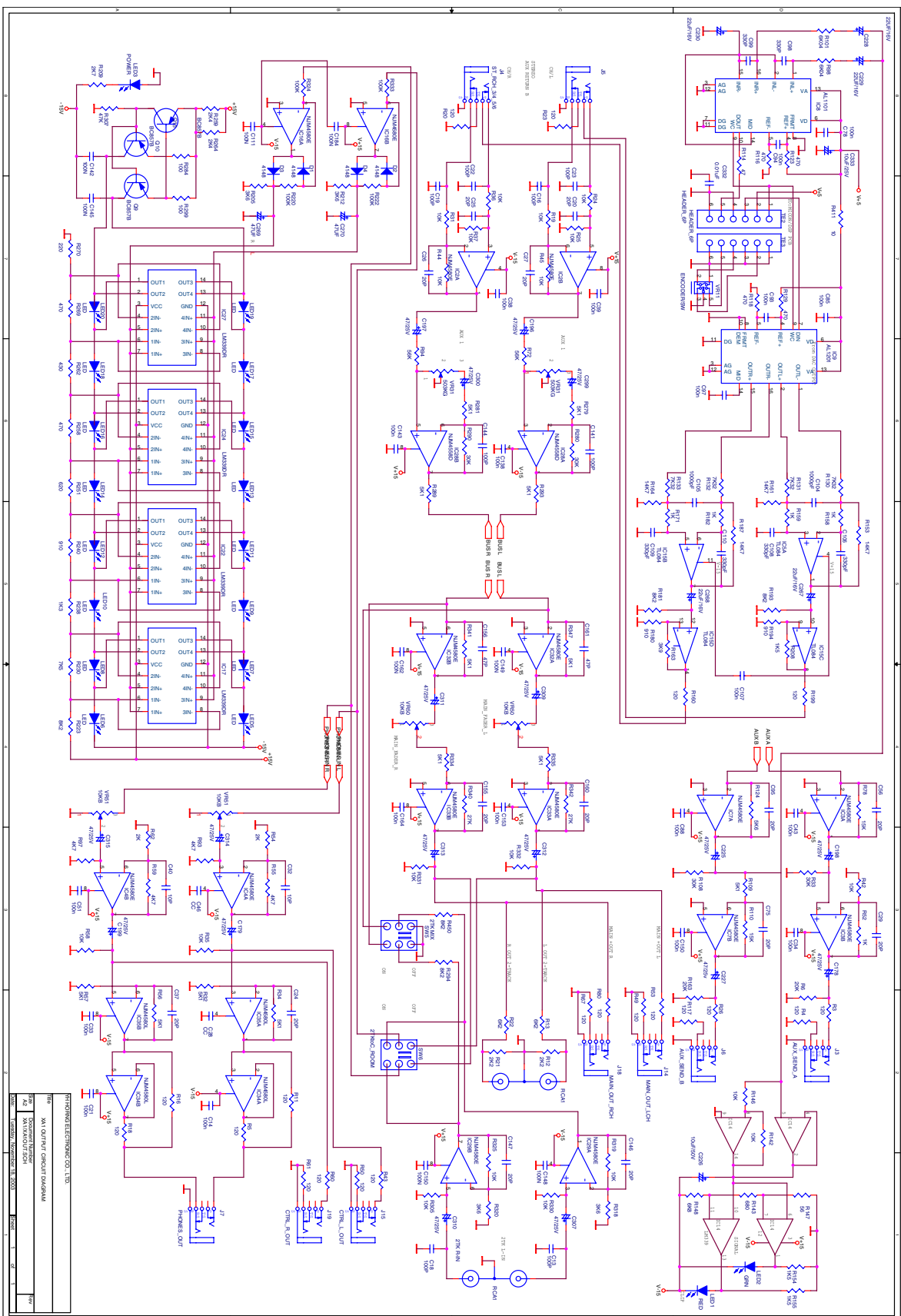
3	1-56-0200	CERAMIC 20P (SMD)	44	C5,6,7,15,20,24,25,26,27,29,37,56,57,62,63,64,73,74,75,76,77,95,116,117,118,119,125,126,127,128,129,130,131,132,133,137,146,147,152,155,157,158,159,160
3	1-56-0331	CERAMIC 330P (SMD)	18	C8,9,10,11,58,59,60,61,69,70,71,72,98,99,106,108,109,110
3	1-56-0470	CERAMIC 47P (SMD)	2	C156,161
3	1-56-0681	CERAMIC 680P (SMD)	8	C47,48,49,50,52,53,54,55
3	2-50-4148	DIODE	12	D1,2,3,4,22,23,24,25,26,27,28,29
3	2-71-0084	IC TL084	1	IC15
3	2-71-4580	IC NJM4580E	25	IC1,2,3,4,5,6,7,10,11,12,13,16,18,19,20,21,23,25,26,28,29,30,31,32,33
3	2-72-0339	IC LM339	5	IC14,17,22,24,27
3	2-75-1101	IC AL1101	1	IC8
3	2-75-1201	IC AL1201	1	IC9
3	2-99-0021	DIODE BAV21	8	D5,6,7,8,9,10,11,12
3	6-00-0008	ENCODER	1	VR11
3	9-40-0291	MIXER PCB	1	
3	BAKCA-04	PCB HOLDER	2	
3	BALD40210-0	LED HOLDER	24	LED1~LED24
3	CN0820001101	8P CONNECTOR 110mm	1	TE1
3	EC10616TS	ELECT 10UF/16V(S)	1	C333
3	EC10625T	ELECT 10UF/25V	8	C167,169,172,176,182,184,188,192
3	EC10635TS	ELECT 10UF/35V (S)	1	C226
3	EC10710TS	ELECT 100UF/10V(S)	8	C271,272,274,275,277,278,280,281
3	EC10806	ELECT 1000UF/6V	4	C183,187,191,195
3	EC22450	ELECT 0.22UF/50V	8	C180,181,185,186,189,190,193,194
3	EC22450TS	ELECT 0.22UF/50V(S)	4	C201,204,207,210
3	EC22550TSU	ELECT 2.2UF/50V	4	C273,276,279,282
3	EC22616TS	ELECT 22UF/16V(S)	2	C228,229
3	EC22704T	ELECT 220UF/4V	8	C289,296,302,303,304,305,306,308
3	EC47625	ELECT 47UF/25V	9	C178,179,196,197,198,199,224,225,227
3	EC47625TS	ELECT 47UF/25V(S)	38	C200,202,203,205,206,208,209,211,212,215,218,221,230,242,248,254,260,267,268,269,270,287,288,294,295,297,298,299,300,301,307,309,310,311,312,313,314,315
3	EC47650	ELECT 47UF/50V	8	C166,168,170,171,173,174,175,177
3	IC4580L	IC NJM4580L	1	IC35
3	JK5031	XLR BASE	4	MIC1,2,3,4
3	JK6353-02-250	MIC BASE	19	J1~J19
3	LD-LG2040	GREEN LED	12	LED2,3,11,12,13,14,15,16,17,18,19,20
3	LDLT0311-41	RED LED	7	LED1,5,6,21,22,23,24
3	LDLY2040A	YELLOW LED	5	LED4,7,8,9,10
3	MC12350T	CAPACITOR 0.012UF/50VJ	16	C217,223,238,240,244,246,250,252,256,258,261,262,264,265,283,290
3	MC18350T	CAPACITOR 0.018UF/50VJ	16	C213,214,216,219,220,222,231,232,233,234,235,236,237,243,249,255
3	MC33350T	CAPACITOR 0.033UF/50VJ	16	C239,241,245,247,251,253,257,259,263,266,284,285,286,291,292,293
3	MR249116	RESISTOR 2.49K 1/16W	8	R367,368,376,377,382,383,388,389
3	MR392116	RESISTOR 3.92K 1/16W	8	R370,371,373,374,379,380,385,386
3	MR680116	RESISTOR 6.8K 1/16W	8	R348,351,352,355,356,359,360,363
3	MR825016	RESISTOR 825O 1/16W	8	R336,369,372,375,378,381,384,387
3	5-03-0036	STANDOFF METAL F-F 13.5MM M3	8	
3	RJGJ107NI	RCA BASE	1	RCA1
3	R004716	RESISTOR 0.47O 1/16W	8	R349,350,353,354,357,358,361,362
3	R18316	RESISTOR 18K 1/16W	2	R364,365
3	SC0306RIBI	SCREW	8	
3	SWSFPC12MC02	SWITCH	6	SW1,2,3,4,5,6
3	TE162000602	6P TERMINAL	2	TE2,3
3	TE812000811	8P CONNECTOR	1	TE1
3	TRA1316GR	TRANSISTOR 2SA1316GR	8	Q20,21,22,23,24,25,26,27
3	TRBC847B	TRANSISTOR	16	Q1,2,3,4,5,6,7,8,11,12,13,14,16,17,18,19

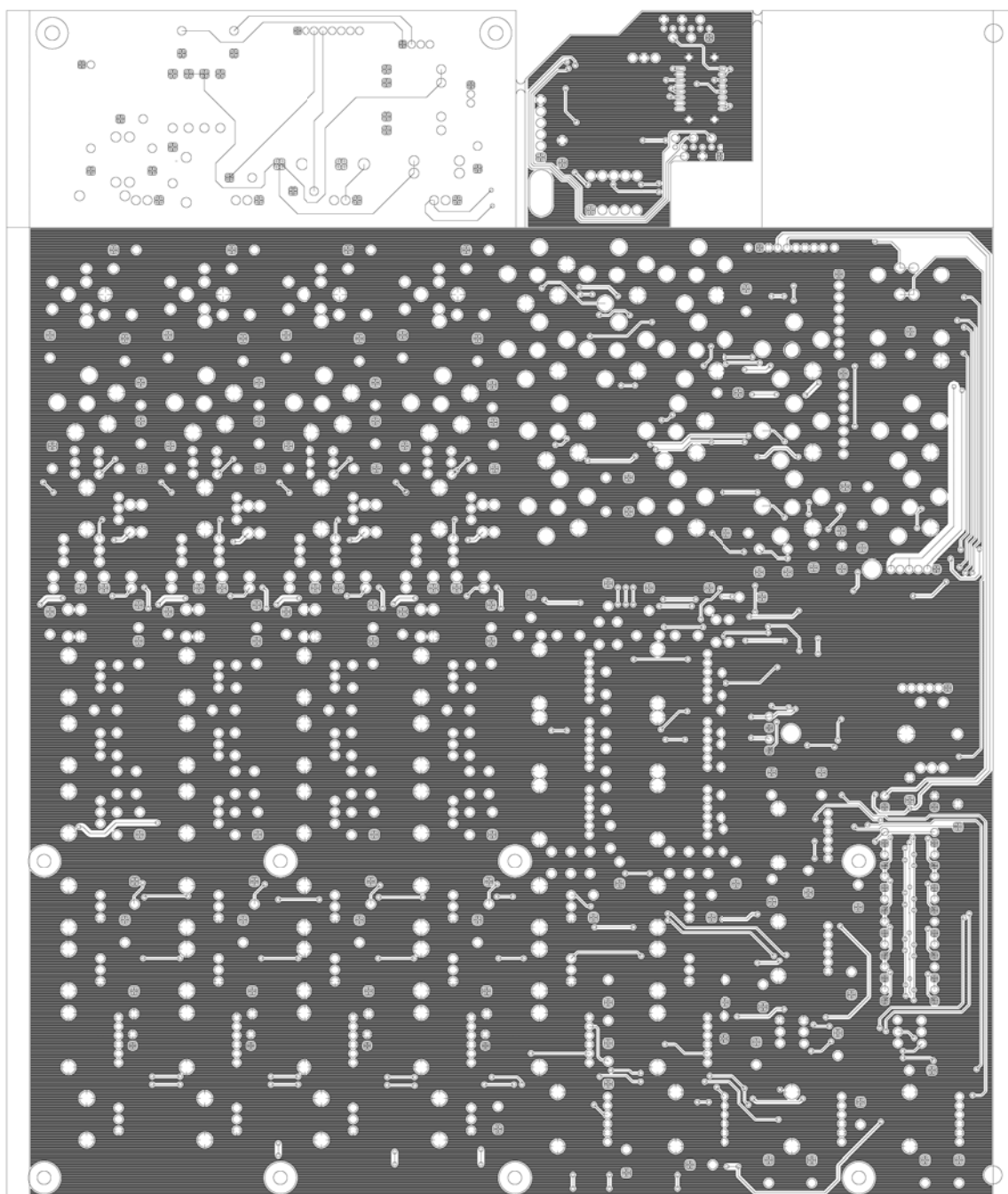
3	TRBC857B	TRANSISTOR BC857B	3	Q9,10,15
3	VRK10301202	VR 10K	6	VR38,39,40,41,42,43
3	VRK10301209	VR 10KB	4	VR48,49,50,51
3	VRK1030904	VR 10KW	12	VR25,26,27,28,29,30,32,33,34,35,36,37
3	VRK1030905	VR 10KB	4	VR44,45,46,47
3	VRK5020902	VR 5KRD	4	VR1,2,3,4
3	VRK50301203	VR 50K	6	VR9,10,16,17,22,23
3	VRK50301204	VR 50K	2	VR24,31
3	VRK5030903	VR 50K	12	VR5,6,7,8,12,13,14,15,18,19,20,21
2	9-79-0302-02	MICON PCB ASS'Y	1	25
3	EC22716TS	ELECT 220UF/16V(S)	1	M_C3
3	LDT2601G	LED	1	M_LED1
3	MT1303214	FIXED PLATE	1	(M_IC2)
3	RS10118J05	RESISTOR 100O (SMD)	3	M_R1,M_R16,M_R17
3	RS22118J05	RESISTOR 220O (SMD)	8	M_R6-M_R13
3	RS47018J05	RESISTOR 47O (SMD)	3	M_R4,M_R14,M_R15
3	RS47118J05	RESISTOR 470O (SMD)	2	M_R2,M_R3
3	TE162000601	TERMINAL	2	M_TE1,M_TE3
3	TRBC857B	TRANSISTOR BC857B	2	M_Q1,M_Q2
3	1-56-0104	CERAMIC 0.1UF (SMD)	4	M_C1,M_C2,M_C5,M_C15
3	2-27-0060	IC AL3201B	1	M_IC2
3	7-01-0033	CRYSTAL 12MHz	1	M_M1
3	9-40-0302	MICON PCB	1	
3	9-61-0106	IC 87C518K	1	M_IC1
2	9-79-0304	POWER PCB ASS'Y	1	16
3	1-56-0104	CERAMIC 0.1UF (SMD)	2	C320,321
3	2-01-4003	DIODE	8	D13,14,15,16,17,18,19,20
3	9-40-0304	POWER PCB	1	
3	DIZBZX79C47V	DIODE	1	D21
3	EC107100TS	ELECT 100UF/100V(S)	1	C329
3	EC10735T	ELECT 100UF/35V	1	C322
3	EC10835	ELECT 1000UF/35V	2	C323,324
3	EC476100	ELECT 47UF/100V	2	C326,327
3	EC47625TS	ELECT 47UF/25V (S)	2	C325,331
3	EC47650TS	ELECT 47UF/50V (S)	2	C328,330
3	IC7805	IC 7805	1	IC38
3	IC7815	IC 7815	1	IC40
3	IC7915	IC 7915	1	IC39
3	JW5206T	JUMP WIRE	1	R405
3	R10018	RESISTOR 10O 1/4W	1	R408
3	R10318	RESISTOR 10K 1/4W	1	R407
3	R20318	RESISTOR 20K 1/4W	1	R410
3	R39418	RESISTOR 390K 1/4W	1	R409
3	TE612000202	2P CONNECTOR	1	TE10
3	TE612000301	3P CONNECTOR	1	TE7
3	TE612000402	4P CONNECTOR	1	TE8
3	TE612000801	8P CONNECTOR	1	TE9
3	TRBD239C	TRANSISTOR	1	IC41

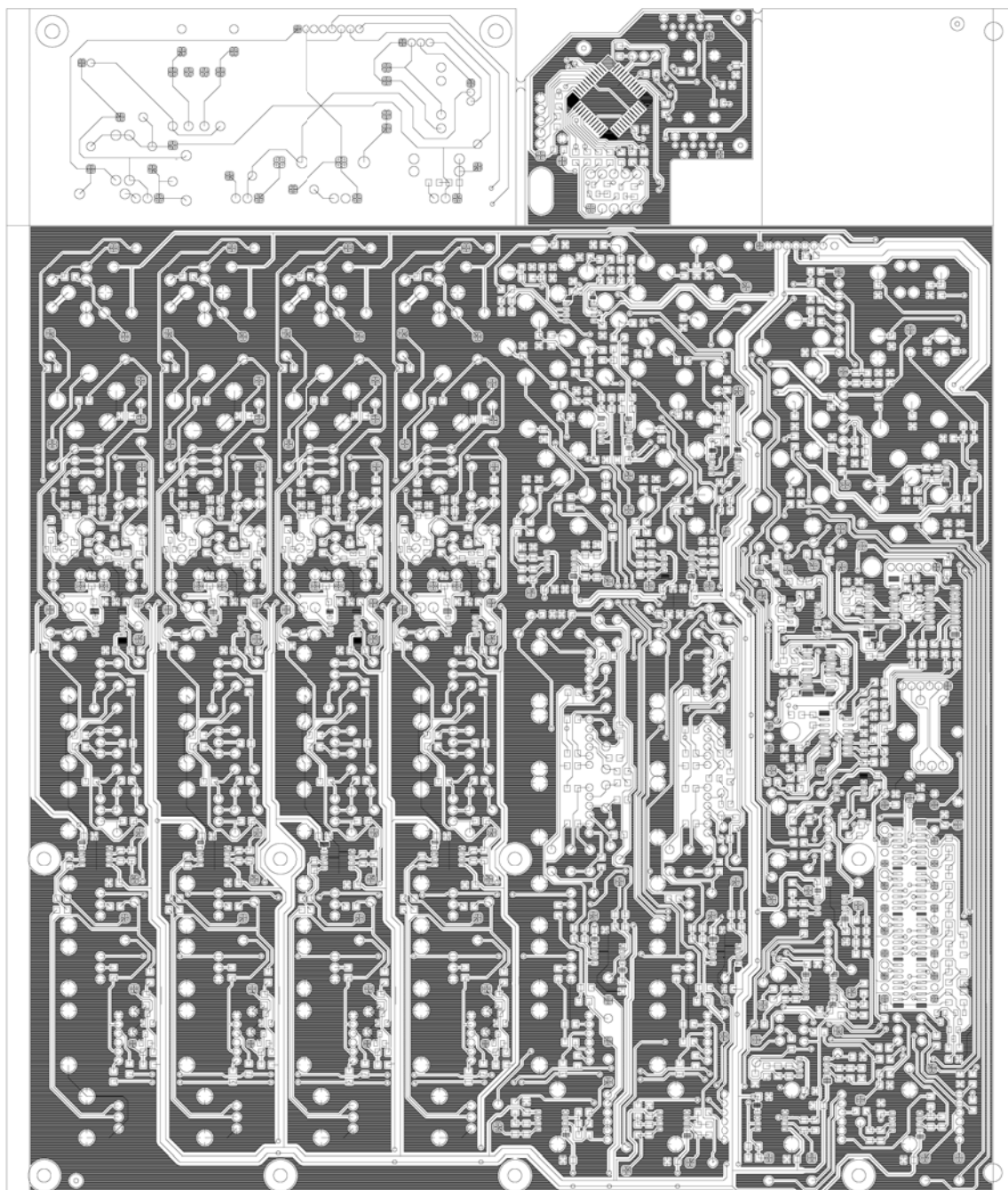
ALESIS

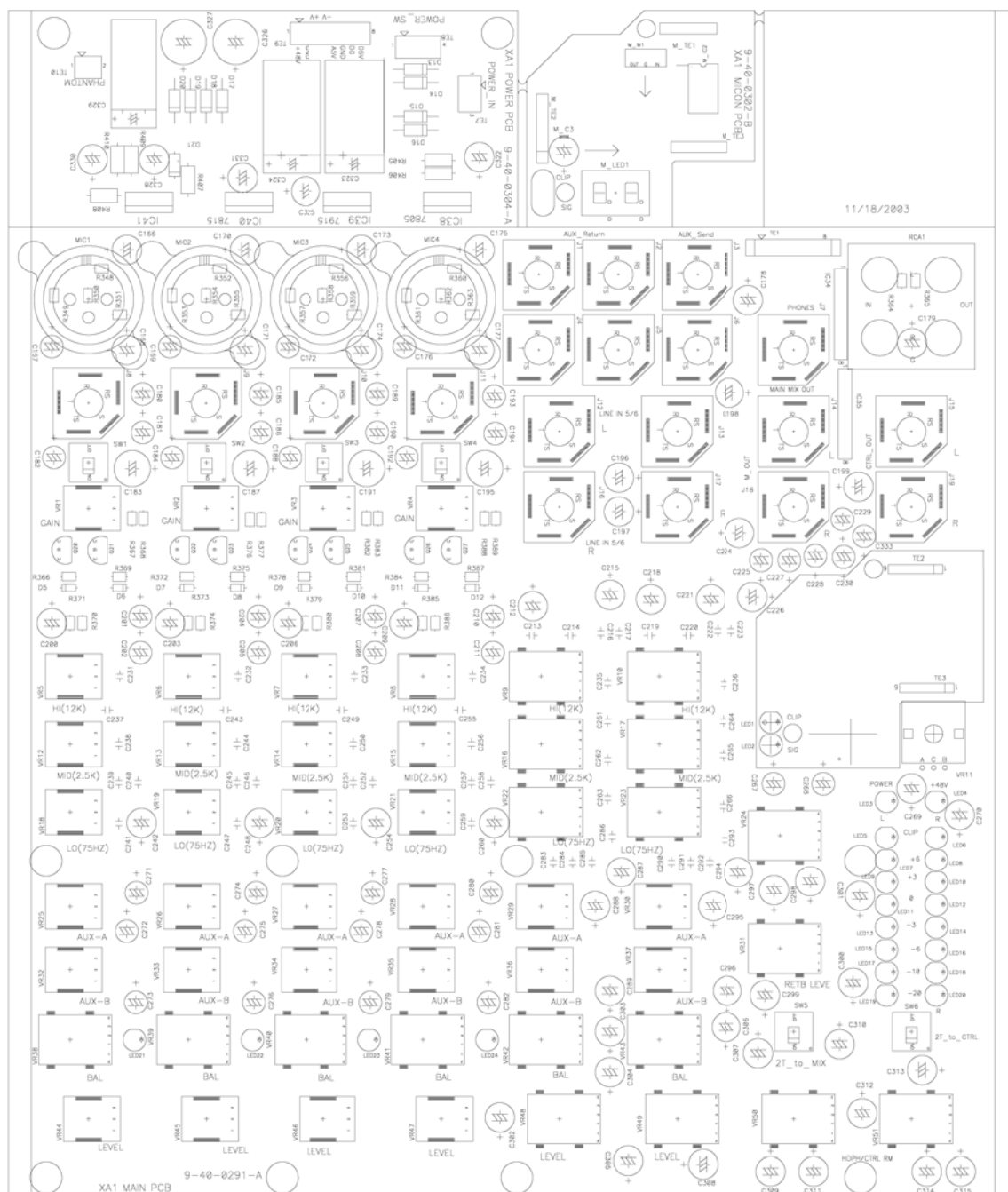
MultiMix8FX (XA1)

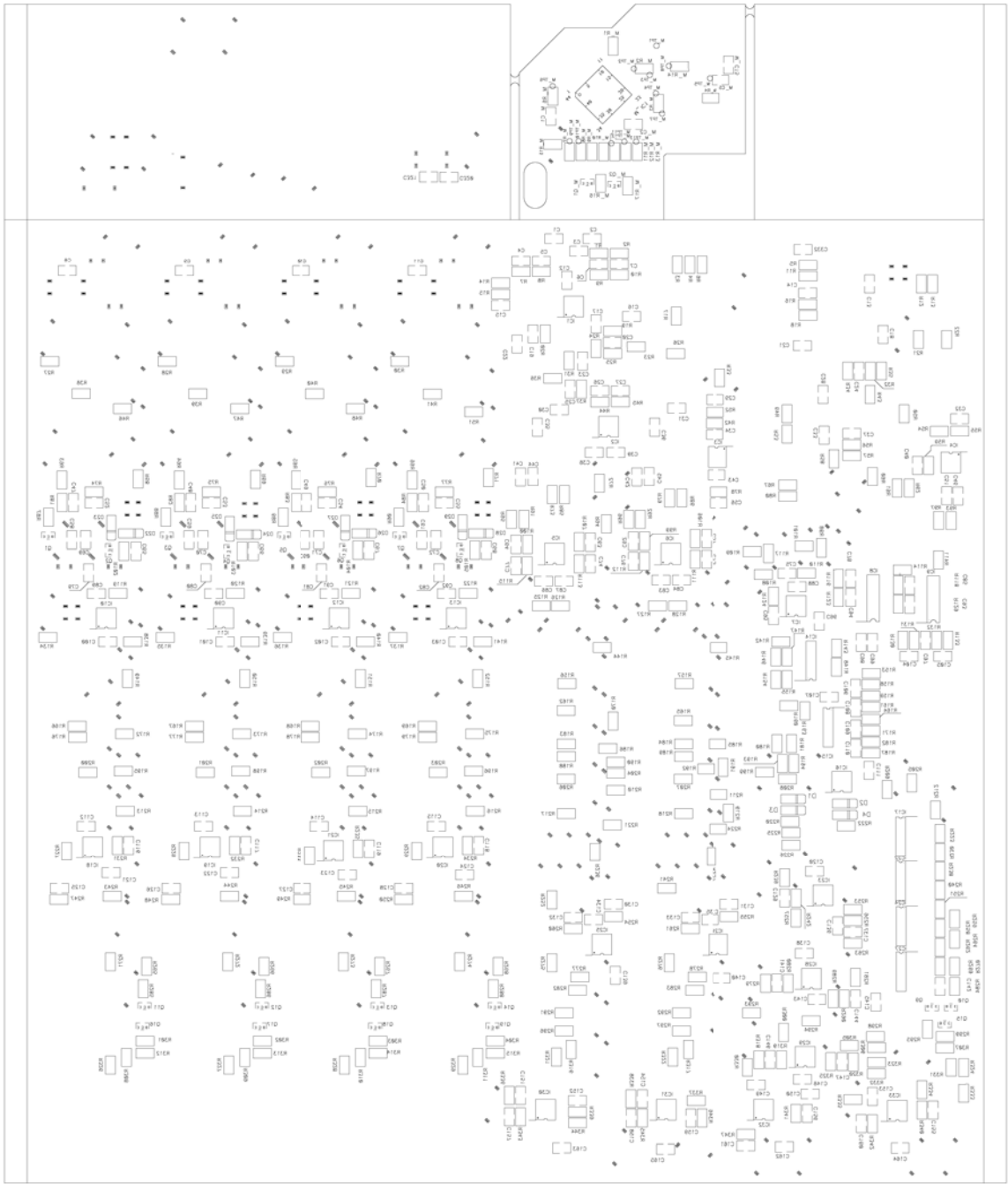
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