

ALLEN & HEATH



Xone:92 PROFESSIONAL DJ MIXER

SERVICE MANUAL

Publication AP5296

Introduction

This publication provides technical information on servicing the Allen & Heath **XONE:92**. Included are system block diagram, internal layout drawing and circuit schematics with board layouts. Whilst we believe this information to be reliable we do not assume responsibility for inaccuracies. We also reserve the right to make changes in the interest of further product development.

Additional Resources

Allen & Heath web site	www.allen-heath.com	Product information Technical downloads Distribution contacts Company contacts
Technical support	support@allen-heath.com	See web for local contact
Xone:92 user guide	AP5345	Operating instructions Performance specification User jumper link options

Xone:92 Service Information

Issue status: **xone92_ap5296_3.doc**

Print date: **04 November 2004**

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ALLEN&HEATH

Manufactured in the United Kingdom by Allen & Heath

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<http://www.allen-heath.com>



Servicing Precautions – General Notes

- Service personnel:** Service work should be carried out by technically qualified service personnel only. Mains power is dangerous and can kill. Do not attempt to work on a linear or switched mode power supply if you are not suitably qualified to do so. Do not attempt to repair surface mount circuit assemblies unless you are suitably qualified and have the necessary facilities to do so. Replacement circuit assemblies can be ordered.
- Service facilities:** Ensure a suitably sized work surface is available. Ensure this is clear of dirt, debris and obstructions which may damage the equipment surfaces. Ensure adequate lighting. Use the correct tools for the job and ensure they are in good working order. Ensure all workshop safety requirements are adhered to.
- Service information:** Check that you have all the information you need before starting the service job. Refer to the Allen & Heath web site or contact Allen & Heath technical support for details on the latest information. Full technical information can be downloaded from the web site Distributor Zone (password required).
- Mains power:** Connect the equipment to mains power only of the type described in the user guide and marked on the rear panel. The power source must provide a good ground connection. Ensure you always use an isolation transformer when working on any mains power supply unit.
- Mains cord and fuse:** Use the correct power cord as supplied with the equipment. Do not remove or tamper with the ground connection in the power cord. Heed the Important Mains Plug Wiring Instructions printed in the user guide if it is necessary to rewire the mains cord. Always replace the equipment mains fuse with the correct type and rating as described in the user guide and marked on the equipment panel.
- Opening the unit:** Switch off and remove the mains power cord before opening the equipment. Ensure all power supply covers and safety shields are in place before applying power with the unit open for diagnostic fault finding.
- Closing the unit:** Before finishing, check the quality and accuracy of the service work carried out. Remove any dirt or debris as this may cause equipment failure in the future. Ensure all assemblies, harnesses and connectors are correctly aligned and plugged in. Ensure that jumper settings and control configurations are correctly set according to the requirements of the customer.
- Testing the unit:** Before operating the equipment, read and adhere to the Important Safety Instructions printed in the user guide. Test that the service work has been successfully carried out.
- Shipping the unit:** Use adequate packing such as the original packaging or purpose designed flight case if you need to ship the unit. To avoid injury to yourself or damage to the equipment take care when lifting, moving or carrying the equipment.



Servicing Notes – XONE:92

- User maintenance:** There are several user configurable jumper links inside. These are described in the user guide together with instructions on how to change the default settings.
- Technology:** The XONE:92 uses SMT (surface mount) PCB technology. In certain cases it may be better to replace a faulty assembly rather than try to fix it without the appropriate tools and training. The power supply is a built-in universal mains input, switched mode circuit which should be serviced by suitably qualified personnel only.
- Operation:** The XONE:92 is a performance club mixer. To ensure optimum performance and reliability it should be connected and operated as described in the user guide.
- Fault finding:** Refer to the system block diagram and circuit drawings to follow through the signal path during fault diagnosis. Replace suspected faulty components only with those specified by Allen & Heath. The use of lower grade alternatives may degrade the performance. Ensure the RCA phono insert jumper links are pressed fully in if fitted.

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XONE:92 – Historical Change Log

The following list identifies historical changes to the **XONE:92**. The effective dates, serial numbers and related change note documentation are included for reference to help identify the correct issue circuit boards and components. Whilst we believe this information to be reliable we do not assume responsibility for inaccuracies. We also reserve the right to make changes in the interest of further product development.

Assembly	Description	From Serial Number	Date	Change Note Number
003-138/143	Filter 1 & Filter 2 iss.1 PCB mod	-	11/03/04	984
003-138/143 & 003-141	Filter value change + diode addition	060507	25/02/04	993
003-233	IEC Mains Filter with Nutserts	-	29/03/04	998
003-139	Master PCB output level change	063122	21/04/04	1018
003-141	Slave PCB capacitor change	063515	04/05/04	1020
User Guide	Issue 2 Block Diagram – Mix 1 output level changed from 0dBu to +4dBu	-	26/05/04	1026
003-138/143	Filter 1 & 2 PCBs up-issue to iss.3	064869	13/05/04	1036

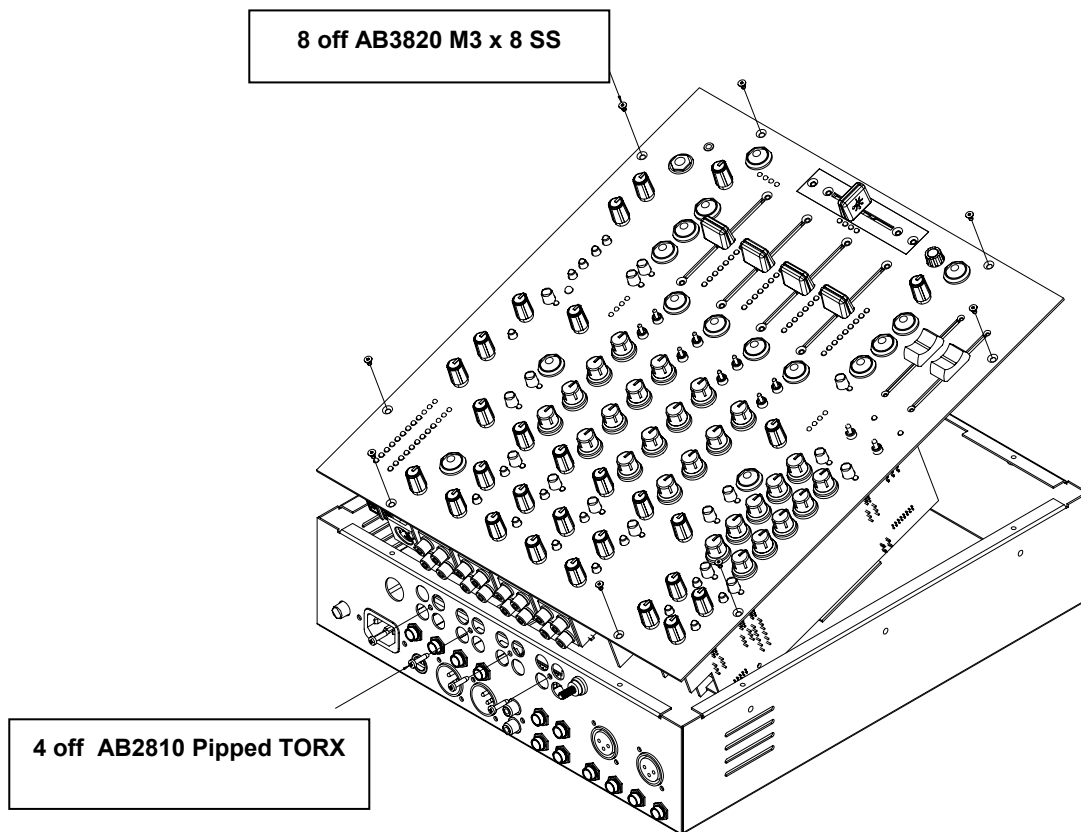
Removing the Top Panel Assembly

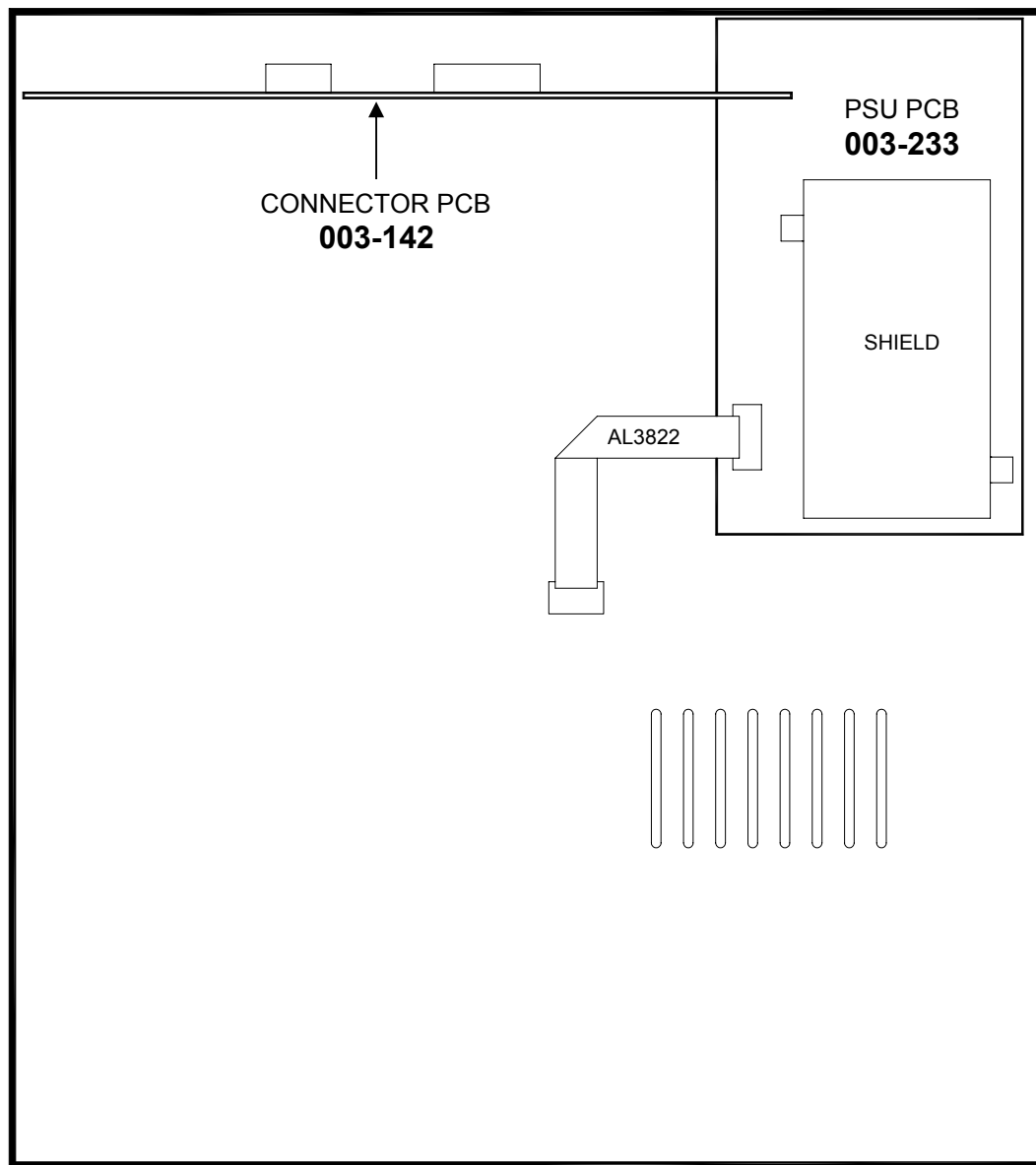
To gain access to the PCB assemblies the top panel assembly needs to be separated from the chassis. This operation should only be carried out by qualified service personnel.

IMPORTANT! Disconnect mains input lead before removing the top panel

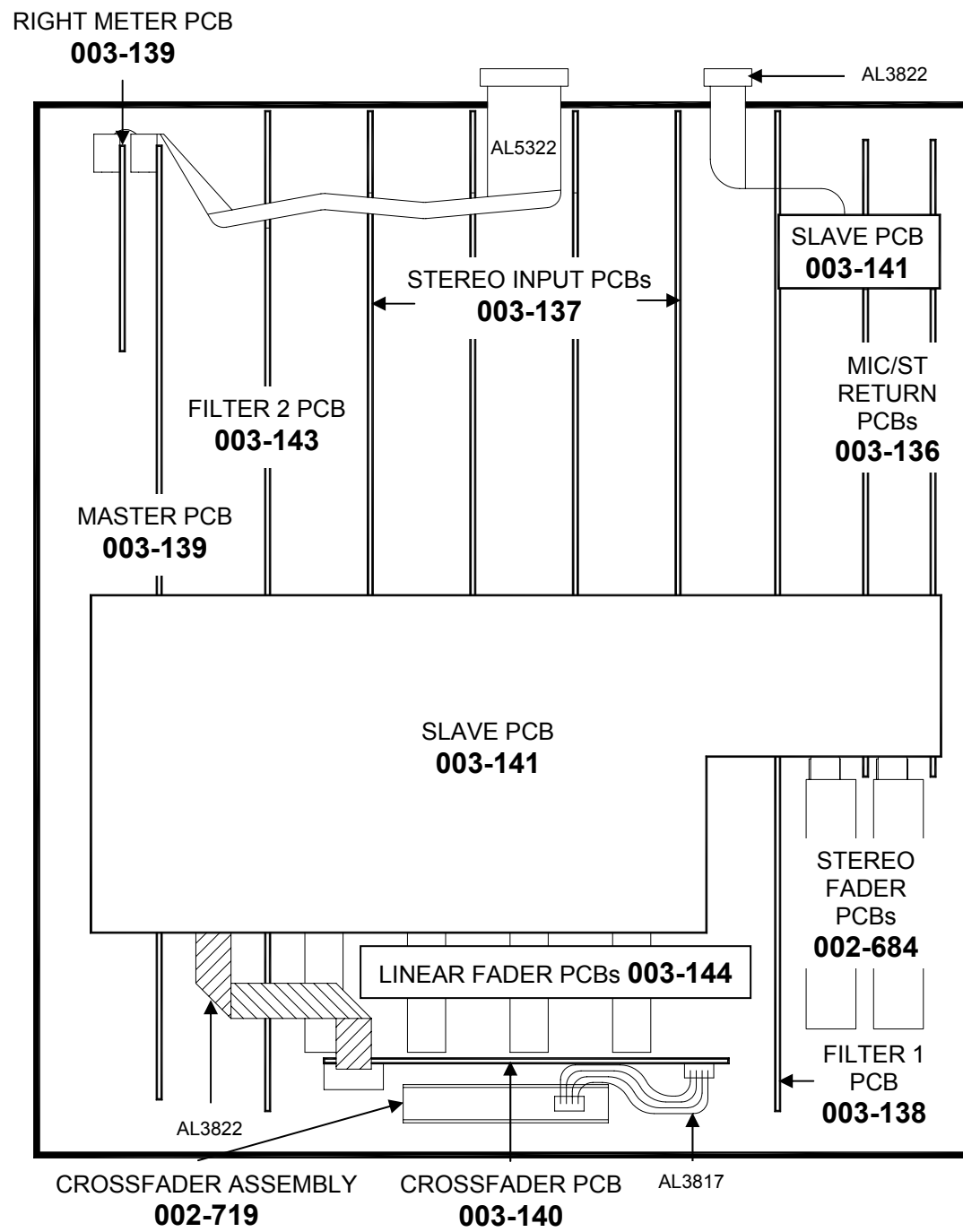
Removal of the top panel requires the use of a Torx T10 screwdriver. Use a good quality tool to prevent rounding the screw heads. First remove the 4 pipped TORX screws located on rear panel in the center of each block of input channel RCA (Phono) connectors, and then undo the 8 M3 x 8 screws that hold the front panel to the chassis. Lift the front edge of the top panel until the two filter PCBs are clear of the chassis, and then pull the top panel gently forward and up until access can be gained to unplug the power cable from the power supply located on the right hand side of the chassis. Continue to lift the front edge of the top panel up until it is possible to unplug the two harnesses from the rear connector PCB. Lift the top panel clear of the base and place on a clear work surface.

Reassembly is the reverse procedure, but take great care to fit the harnesses correctly and to ensure that the ribbon cables do not get trapped between any of the PCBs and the chassis. Refit the panel screws first and tighten evenly with the chassis held firmly on a flat work surface. Finally refit the rear connector screws.





XONE:92 Chassis assembly Front view



XONE:92 Front Panel assembly Front view

ROTARY versions use ROTARY FADER PCB **003-145** instead of **003-144**

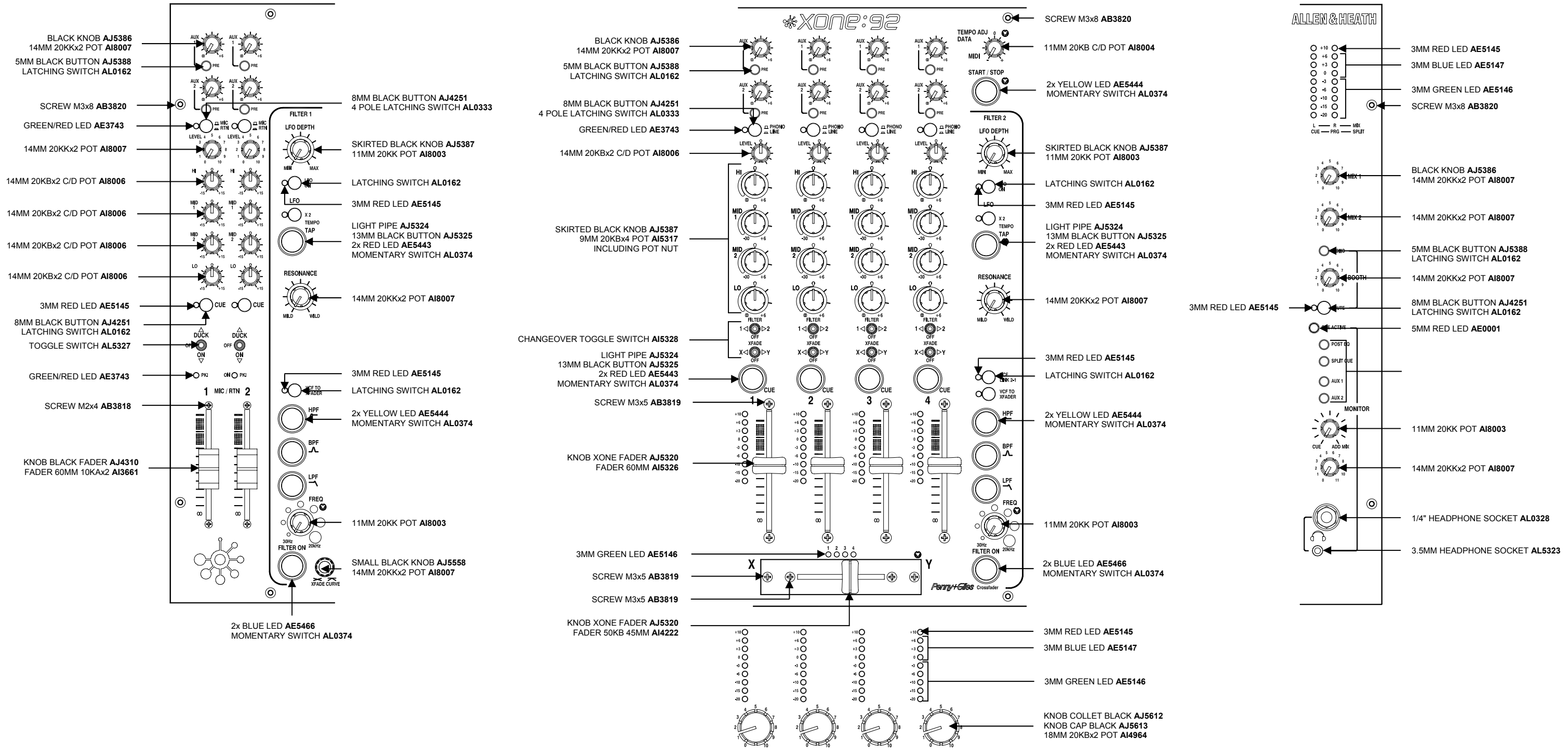
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.....XONE:92-R/110
.....XONE:92-R/120
.....XONE:92-R/220
.....XONE:92-R/240
..... XONE:92/110
..... XONE:92/120
..... XONE:92/220
..... XONE:92/240
Pack Assembly..... 003-132
Main Assembly (Linear)..... 003-133
Top Panel Assembly (Linear)... 003-134
Chassis Assembly..... 003-135
Main Assembly (Rotary)..... 003-146
Top Panel Assembly (Rotary). . 003-147

Stereo Fader PCB 002-684
Mic/Stereo Return PCB 003-136
Stereo Input PCB 003-137
Filter 1 PCB 003-138
Master PCB 003-139
Crossfader PCB 003-140
Slave PCB 003-141
Connector PCB 003-142
Filter 2 PCB 003-143
Linear Fader PCB..... 003-144
Rotary Fader PCB 003-145
Mains/PSU PCB 003-233

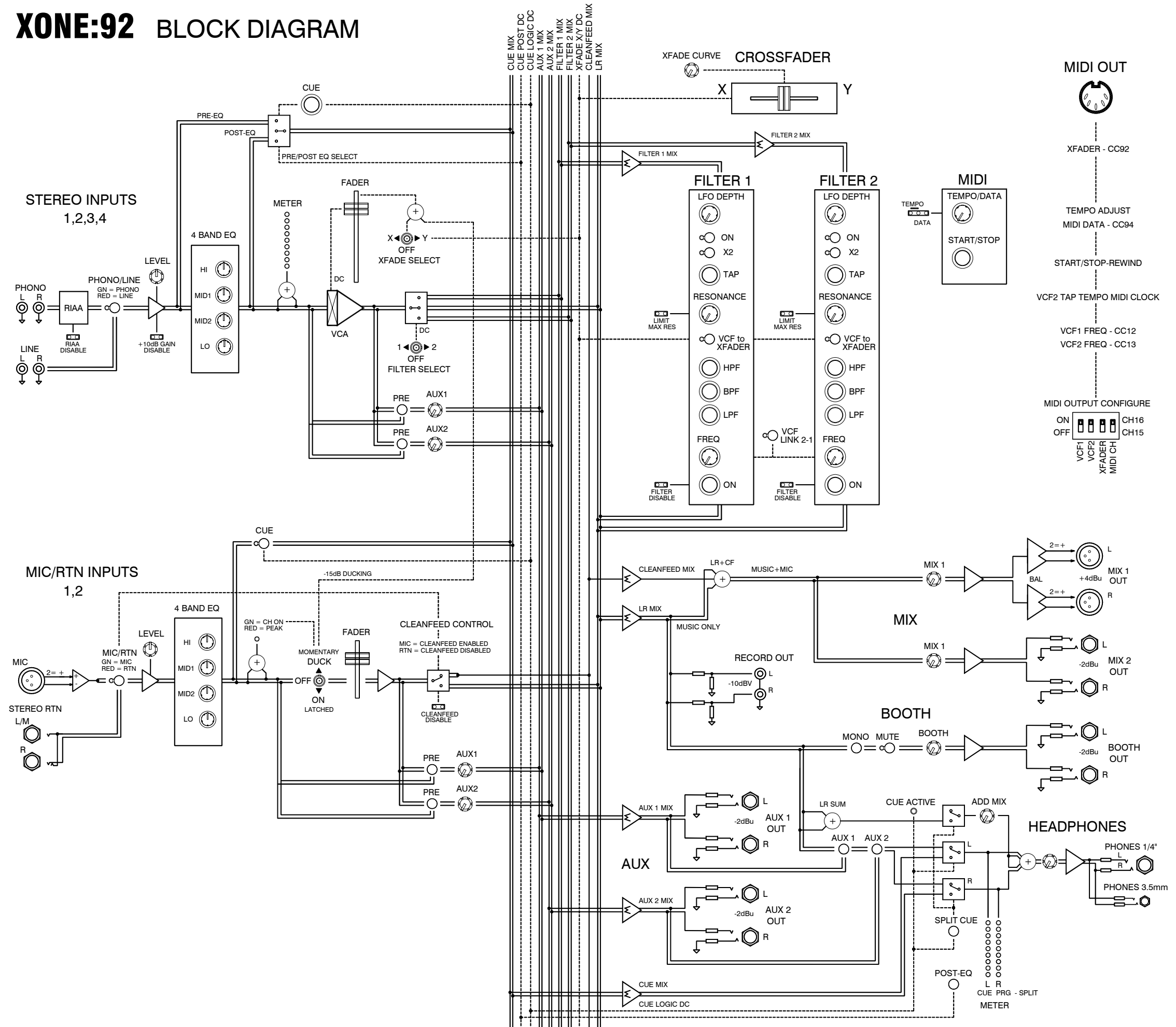
Spare P&G Crossfader Assy.... 002-719

XONE:92 Surface Parts

9MM POT NUT AB8172



XONE:92 BLOCK DIAGRAM



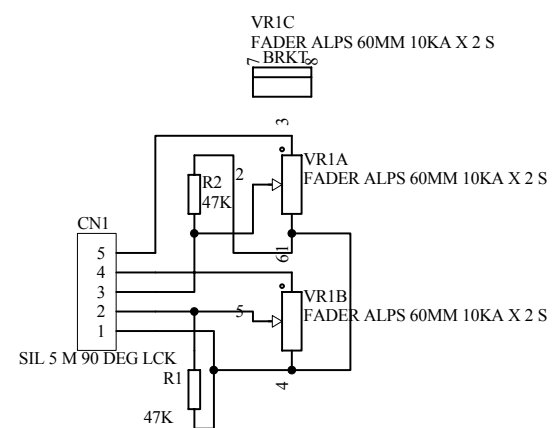
e

d

c

b

a

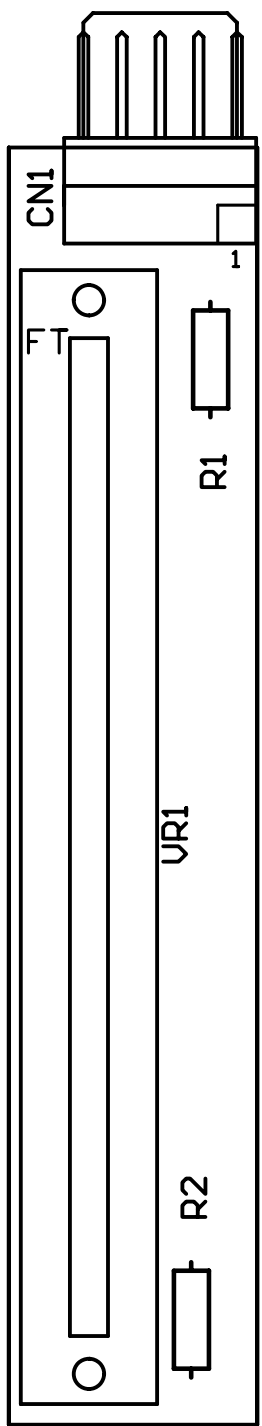


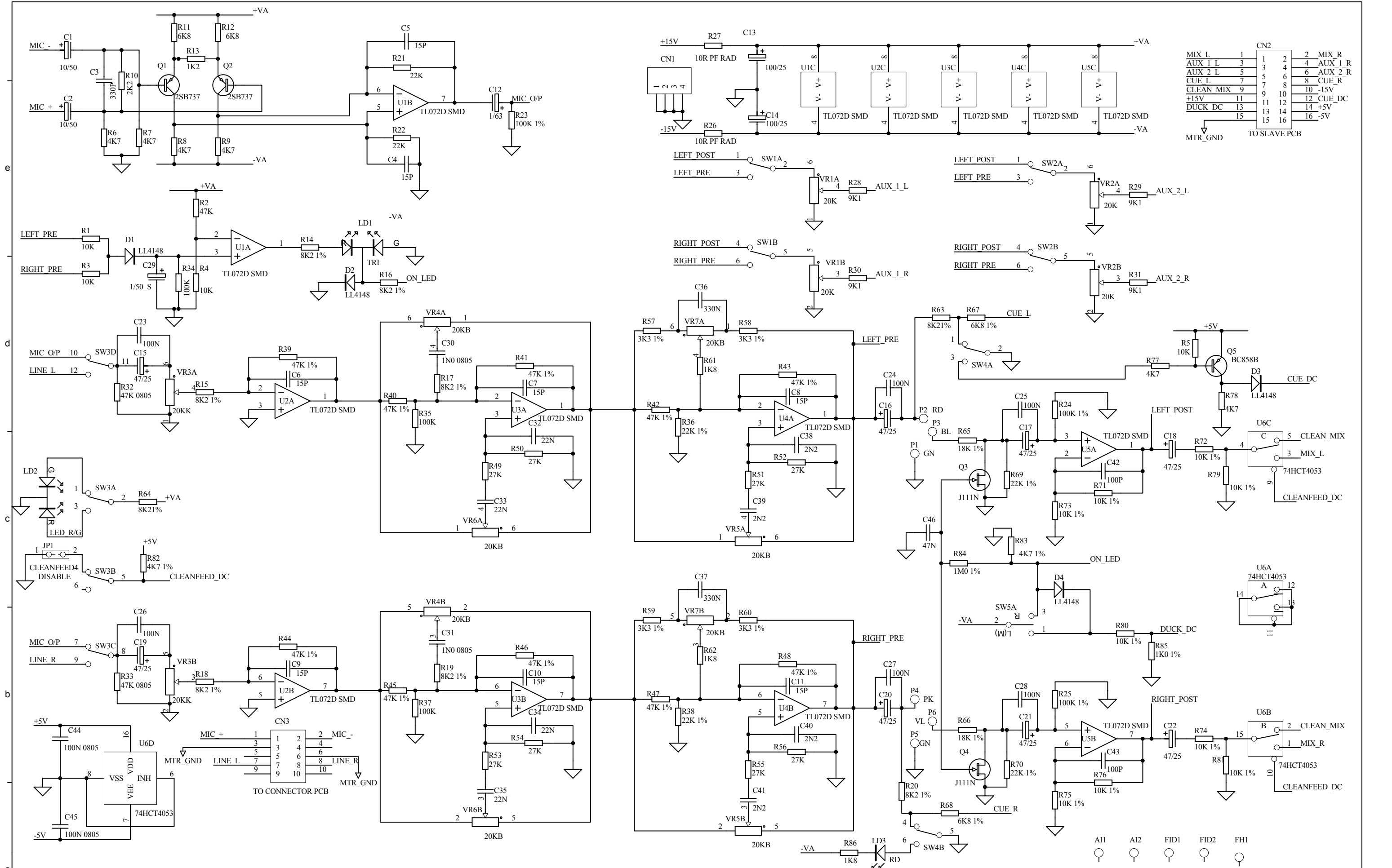
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ISSUE	BY	DATE
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 DRG No: C4268 ISSUE: 3 SHEET: 1 OF 1



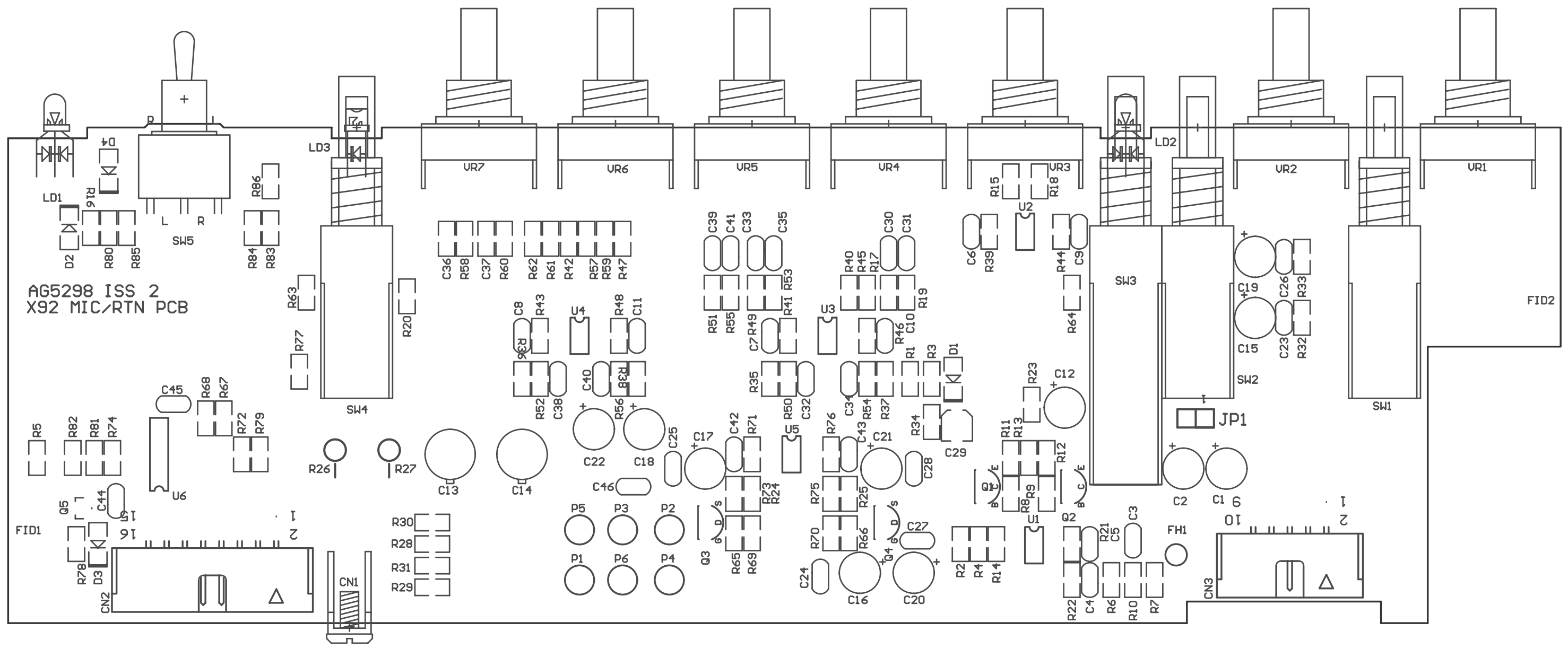


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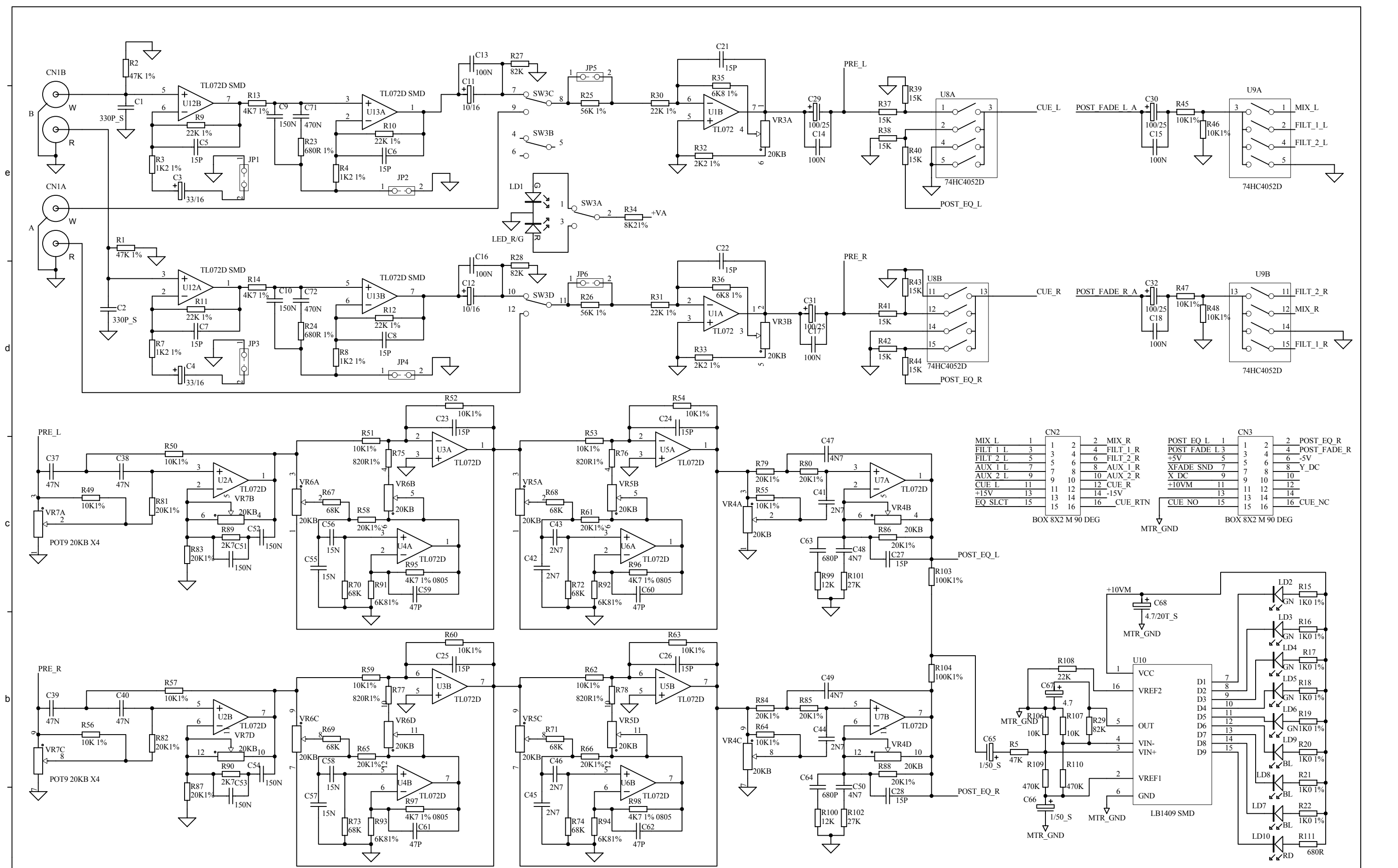
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SW5B	VR7C	VR6C	VR5C	VR4C	VR3C	VR2C	VR1C

TITLE: **XONE 92 MIC/STEREO RTN**
 PAGE:
 DRG No: **C5298** ISSUE: **2** SHEET: **1 OF 1**



AG5298 ISS 2
X92 MIC/RTN PCB



MIX L	1	1	2	2	MIX R	1	2	2	POST EQ_R	1	1	2	2	POST EQ_R
FILT 1 L	3	3	4	4	FILT 1_R	3	4	4	POST_FADE_R	3	3	4	4	POST_FADE_R
FILT 2 L	5	5	6	6	FILT 2_R	5	6	6	-5V	5	5	6	6	-5V
AUX 1 L	7	7	8	8	AUX 1_R	7	8	8	X DC	7	7	8	8	X DC
AUX 2 L	9	9	10	10	AUX 2_R	9	10	10	+10VM	9	9	10	10	+10VM
CUE L	11	11	12	12	CUE R	11	12	12		11	11	12	12	
+15V	13	13	14	14	-15V	13	14	14		13	13	14	14	
EQ SLCT	15	15	16	16	CUE RTN	15	16	16	CUE_NO	15	15	16	16	CUE_NO

BOX 8X2 M 90 DEG

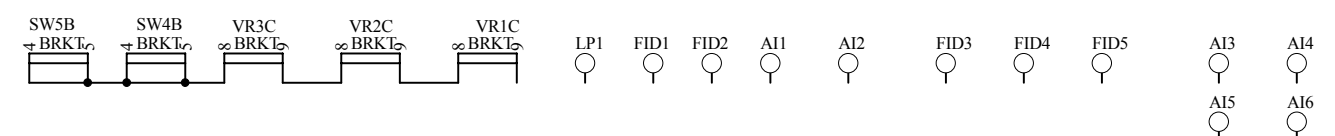
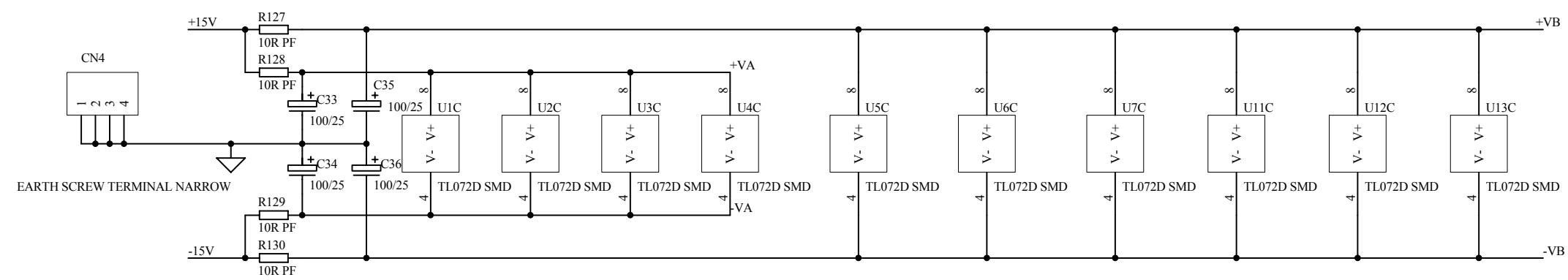
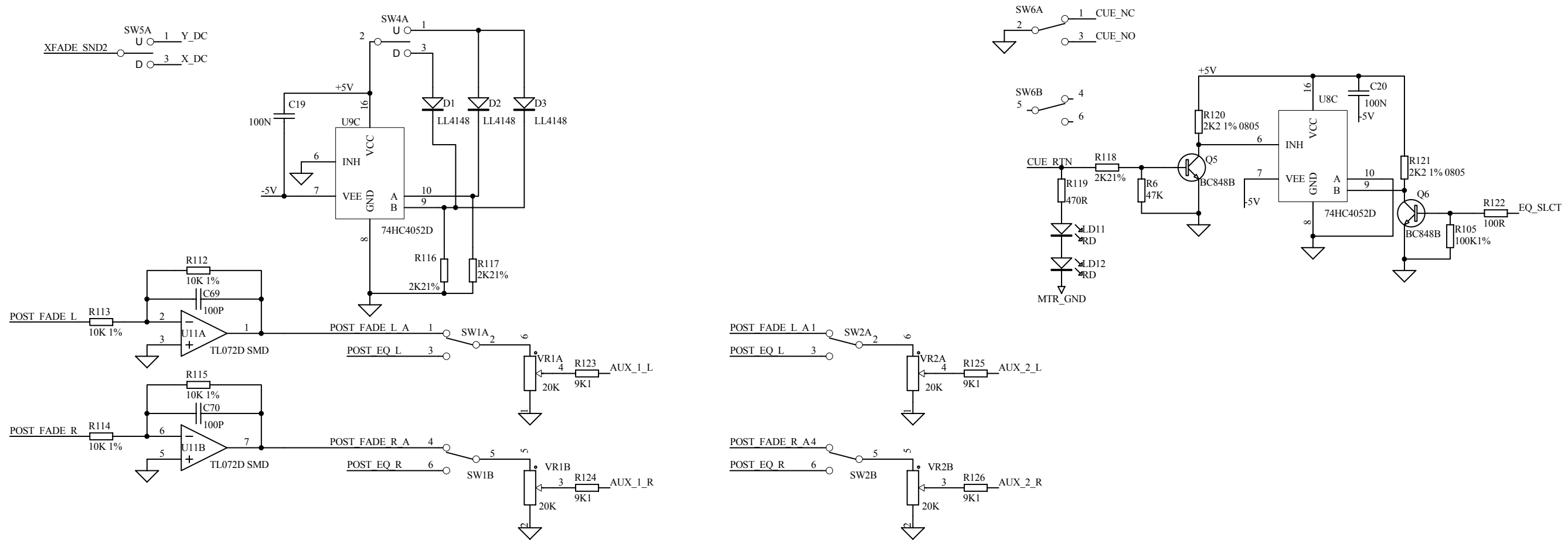
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2	ARJ	18/12/03	
3	ARJ	18/03/04	

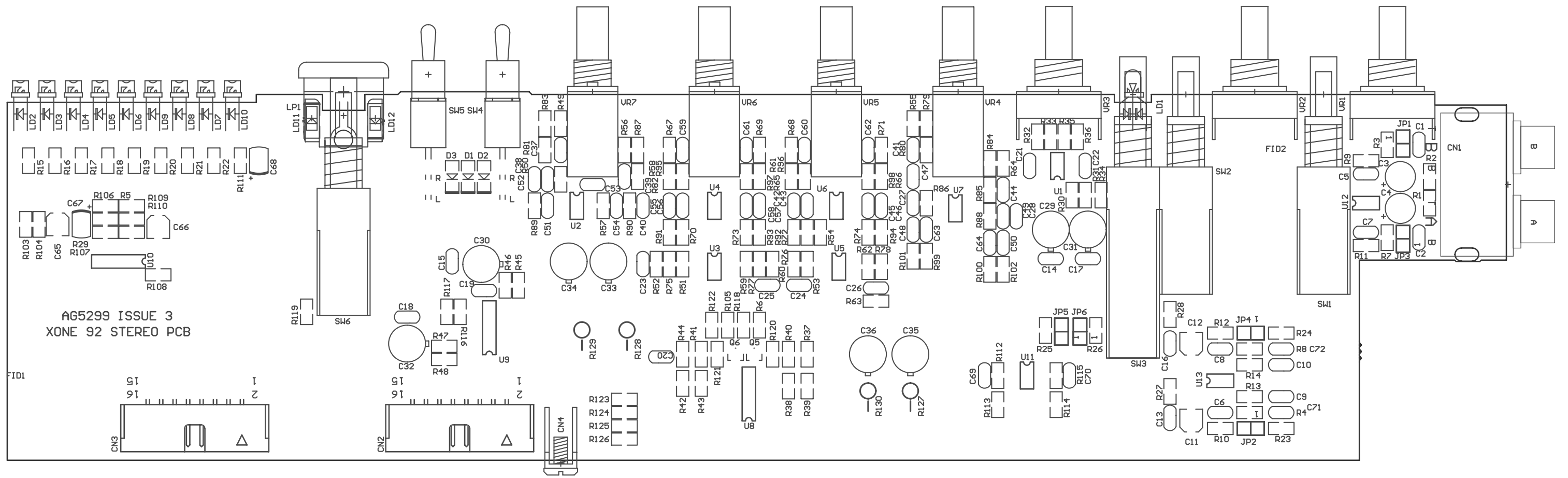
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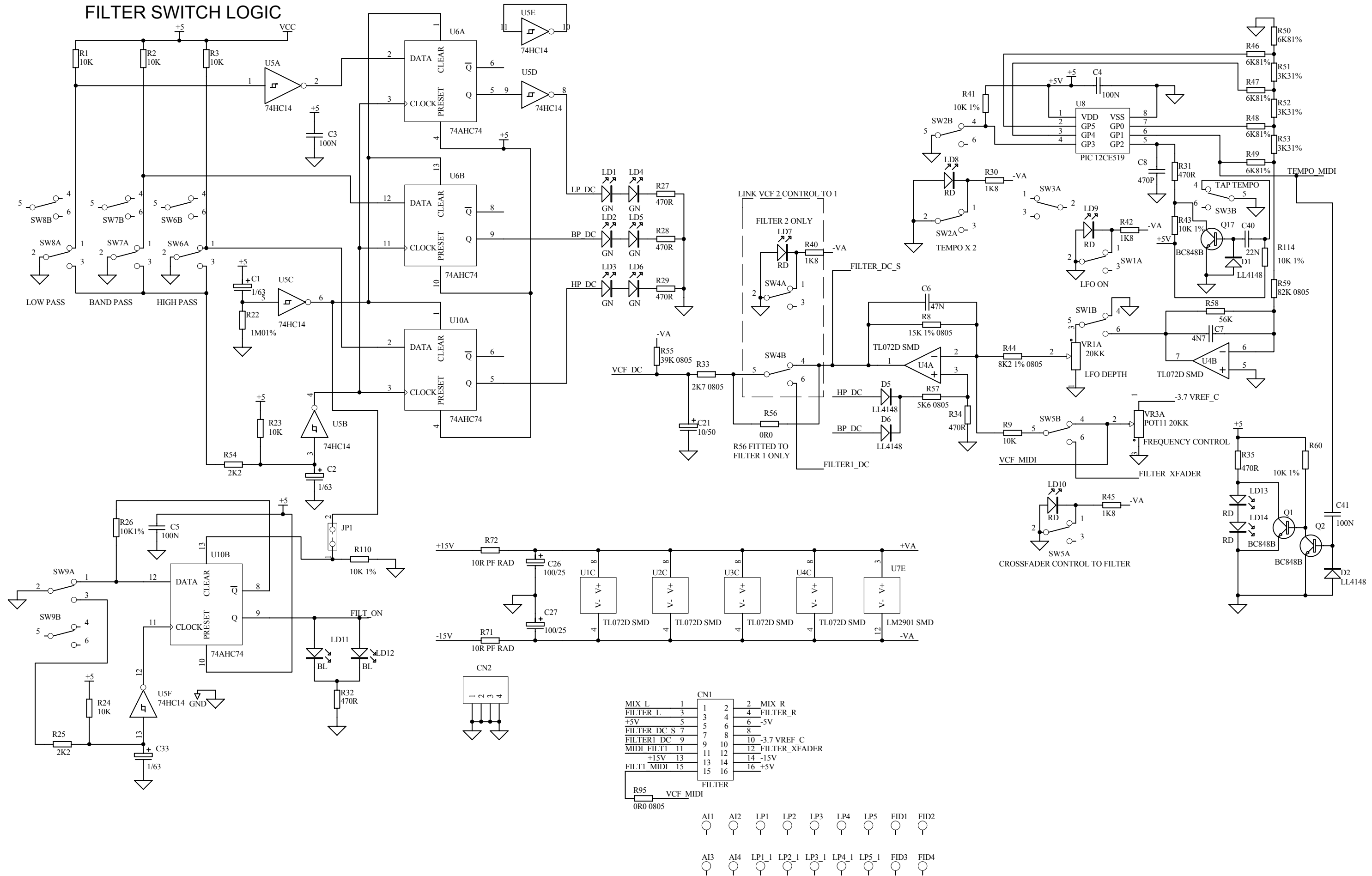
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	3	ARJ	18/03/04		FILE: AG5299 ISS 3 Stereo SHEET 2 PRINTED: 10:05:13 21-Sep-2004



FILTER SWITCH LOGIC



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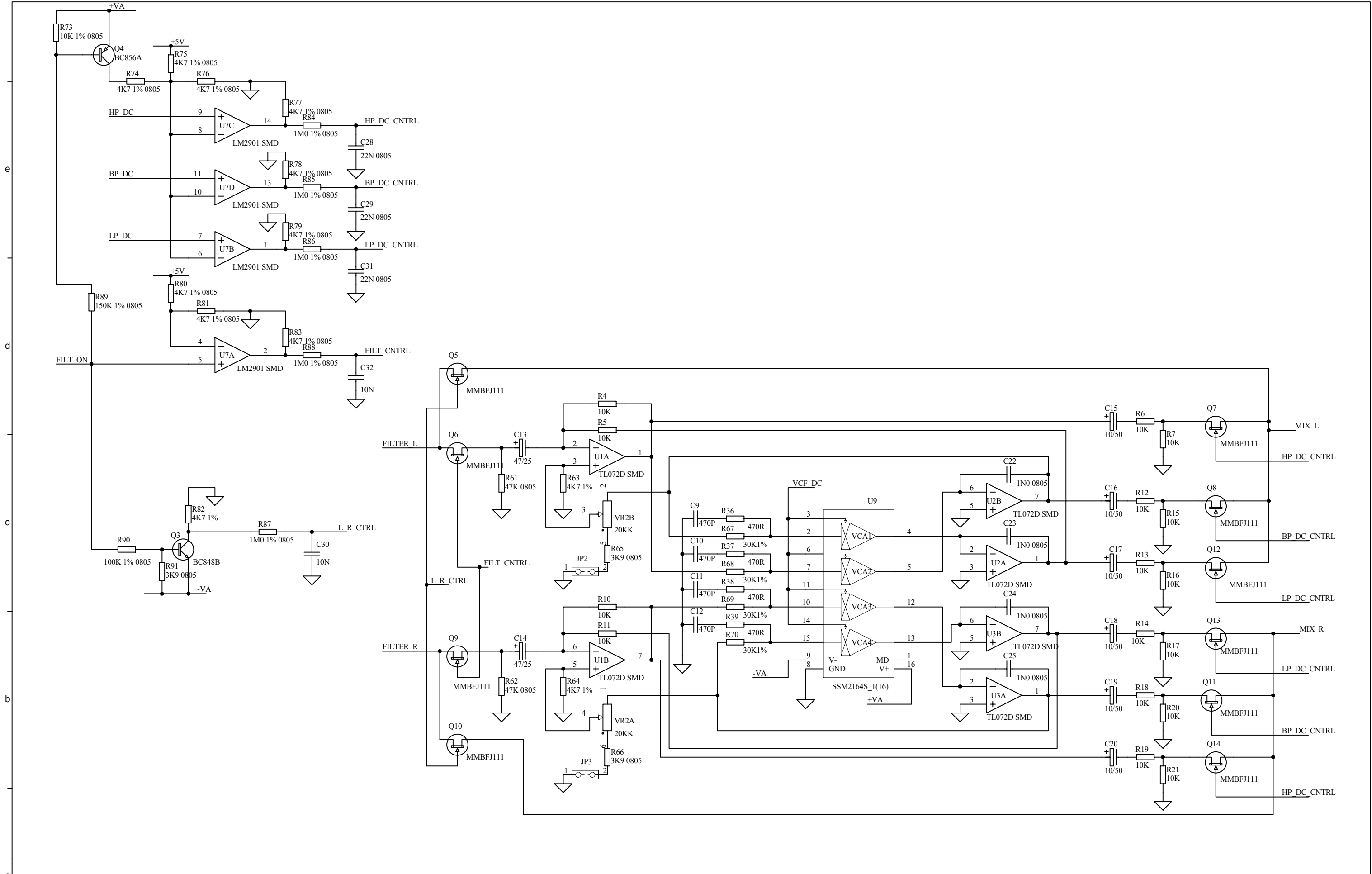
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VR2C	VR1B	VR3B
POT14 20KK X2	POT11 20KK	POT11 20KK

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TITLE: XONE 92 FILTER/MIDI PCB
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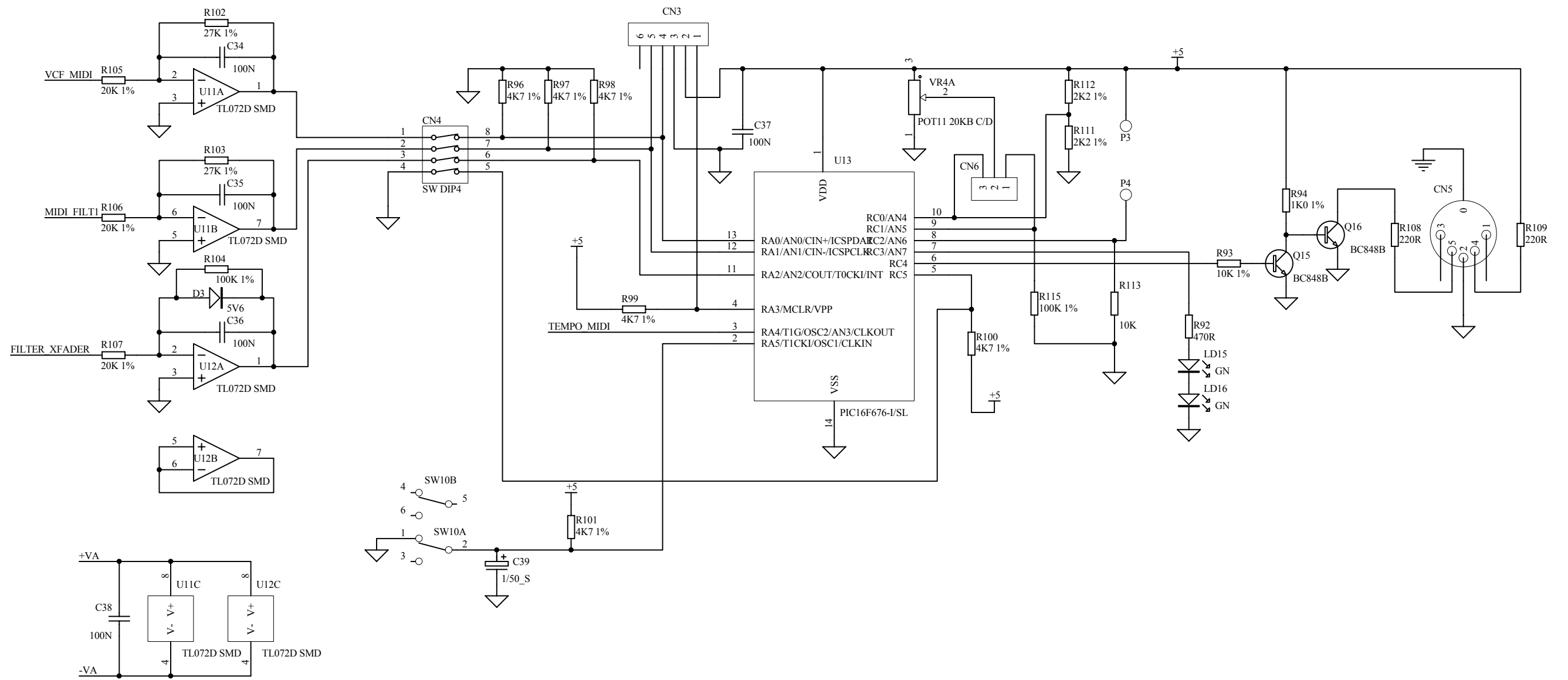


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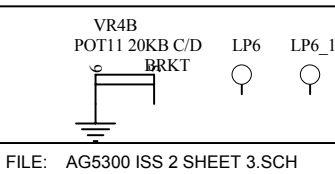
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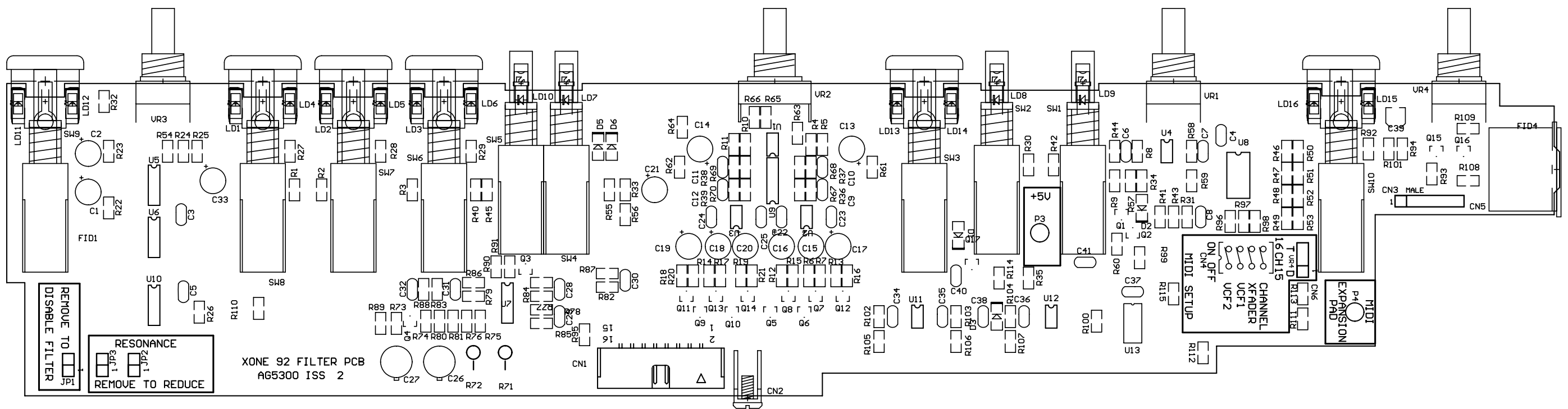
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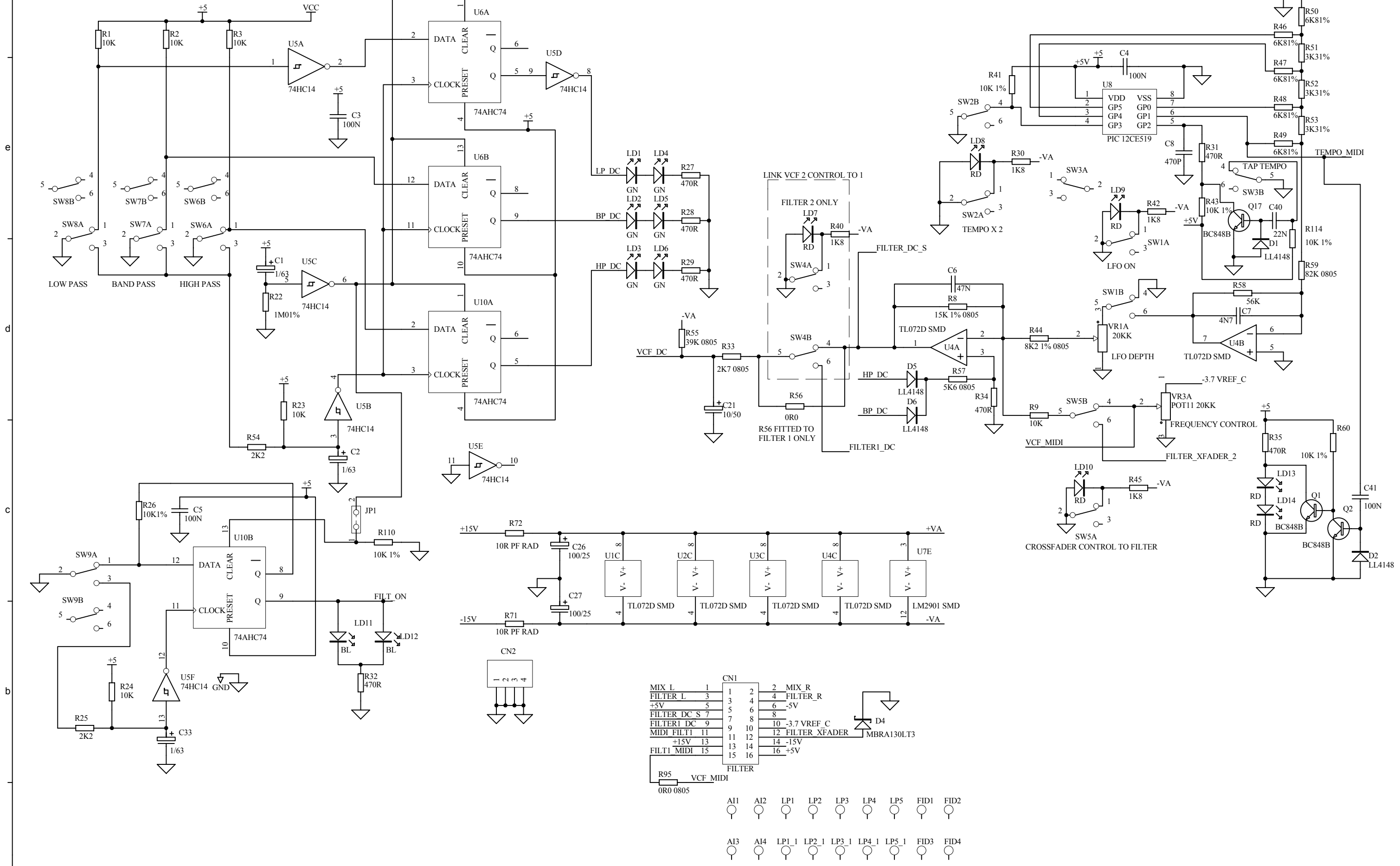


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FILTER SWITCH LOGIC



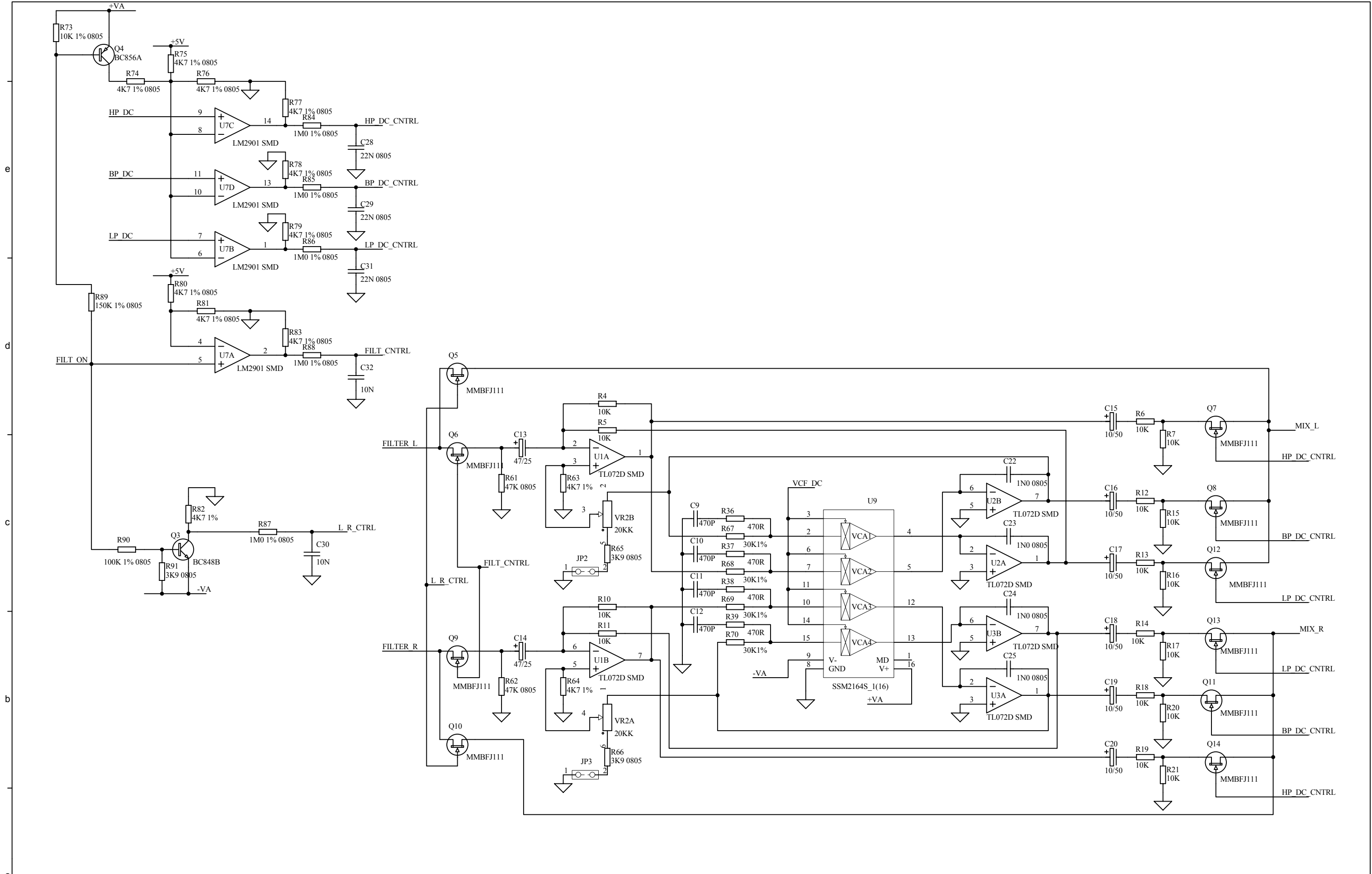
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2	ARJ	18-12-03	
3	ARJ	11-02-04	

BRKT	BRKT	BRKT
VR2C	VR1B	VR3B
POT14 20KK X2	POT11 20KK	POT11 20KK

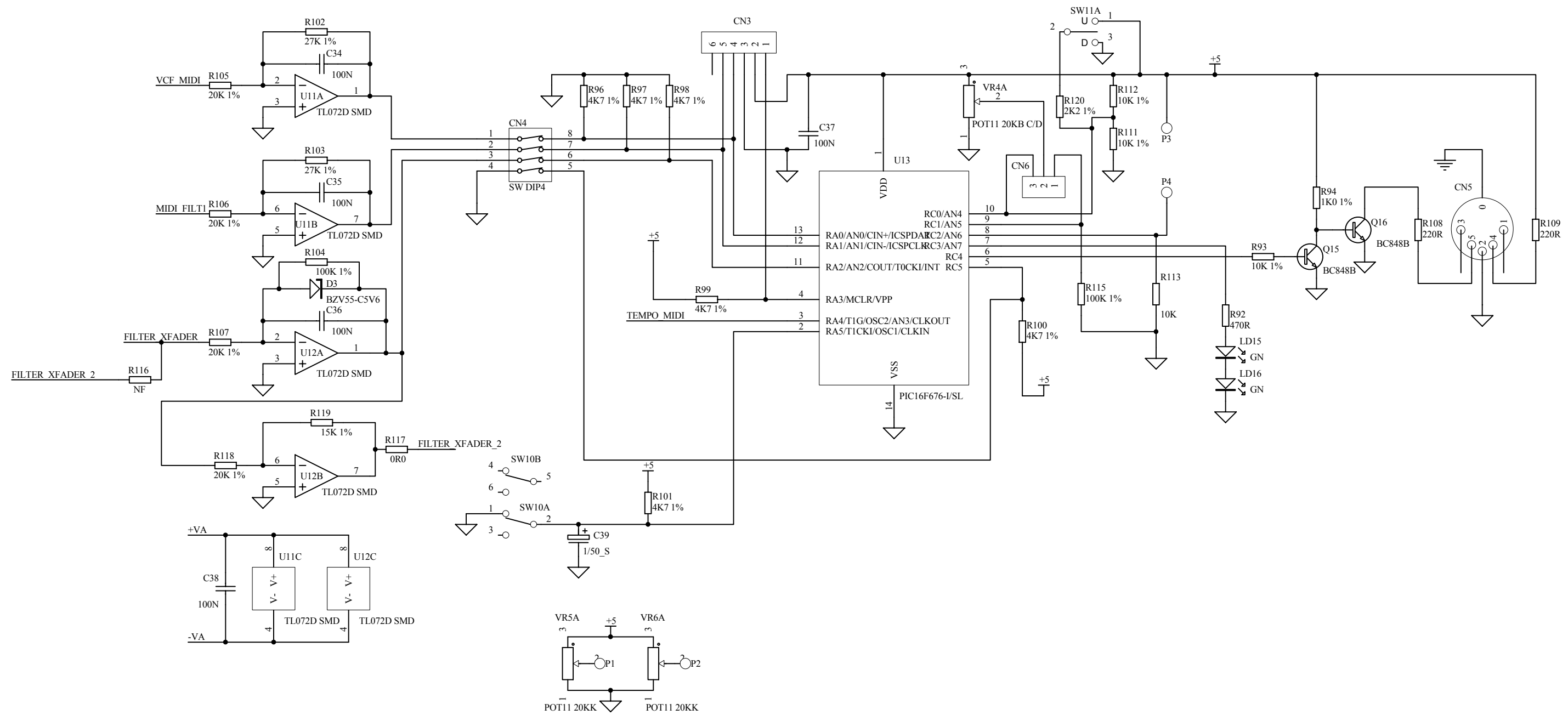
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e
d
c
b
a

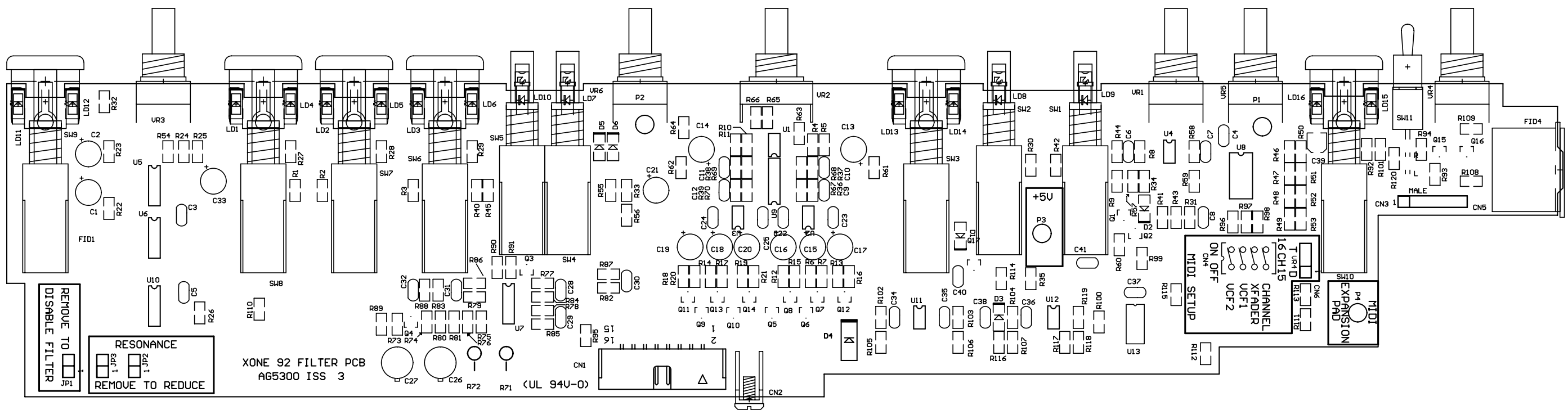


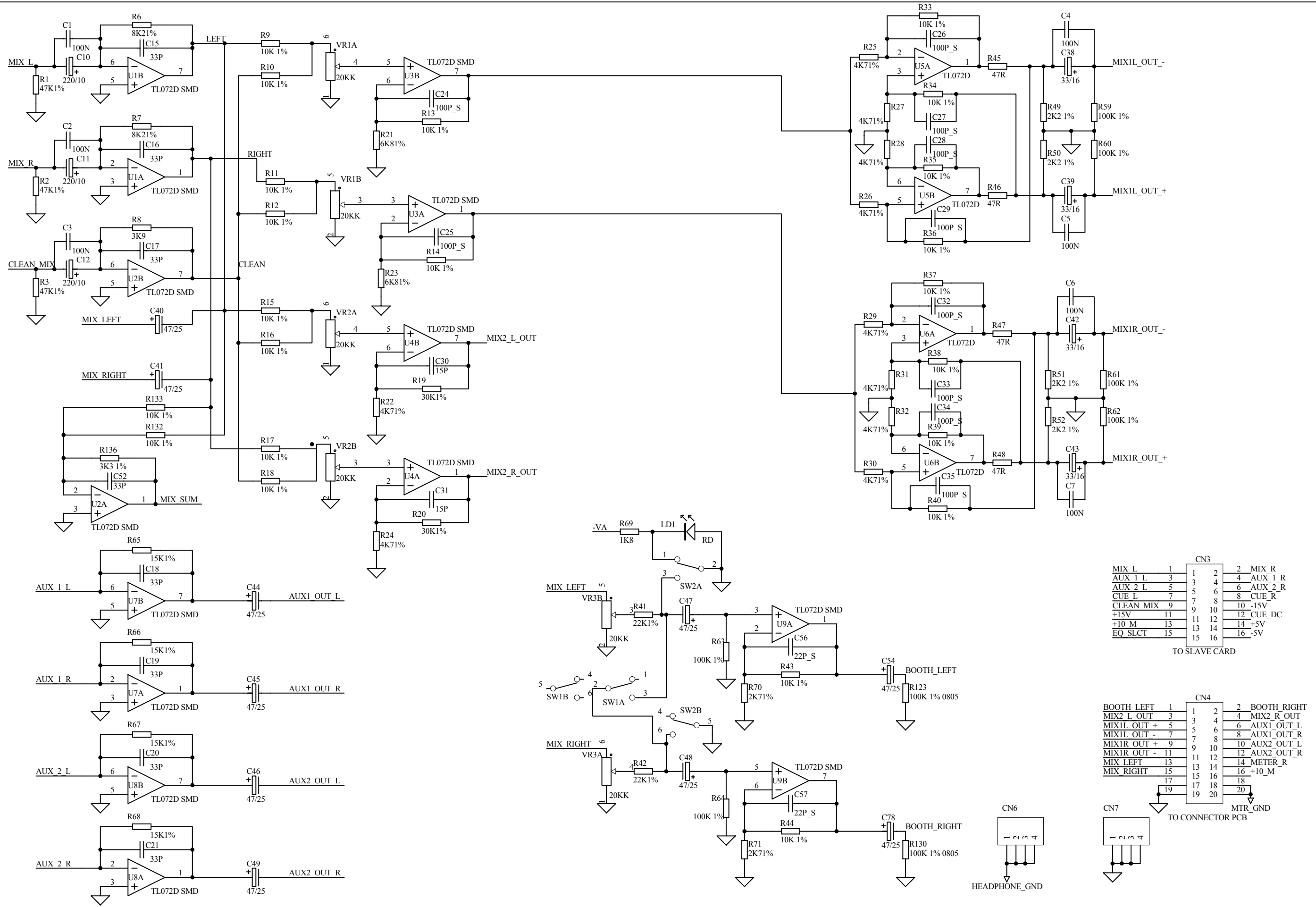
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POT11 20KB C/D BRKT
 LP6 LP6_1
 AI5 HOLE-AI AI6 HOLE-AI
 POT11 20KK POT11 20KK
 FILE: AG5300 ISS 3 SHEET 3.SCH

TITLE: XONE 92 MIDI
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CN3

MIX L	1	2	MIX R
AUX 1 L	3	4	AUX 1 R
AUX 2 L	5	6	AUX 2 R
CUE L	7	8	CUE R
CLEAN MIX	9	10	-15V
+15V	11	12	CUE_DC
+10_M	13	14	+5V
EQ SLCT	15	16	-5V

TO SLAVE CARD

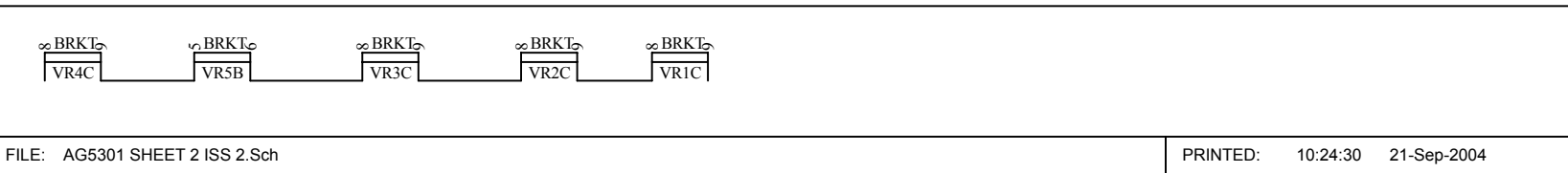
CN4

BOOTH LEFT	1	2	BOOTH RIGHT
MIX2 L OUT	3	4	MIX2 R_OUT
MIX1L OUT +	5	6	AUX1_OUT_L
MIX1L OUT -	7	8	AUX1_OUT_R
MIX1R OUT +	9	10	AUX2_OUT_L
MIX1R OUT -	11	12	AUX2_OUT_R
MIX LEFT	13	14	METER_R
MIX RIGHT	15	16	+10_M
	17	18	
	19	20	MTR_GND

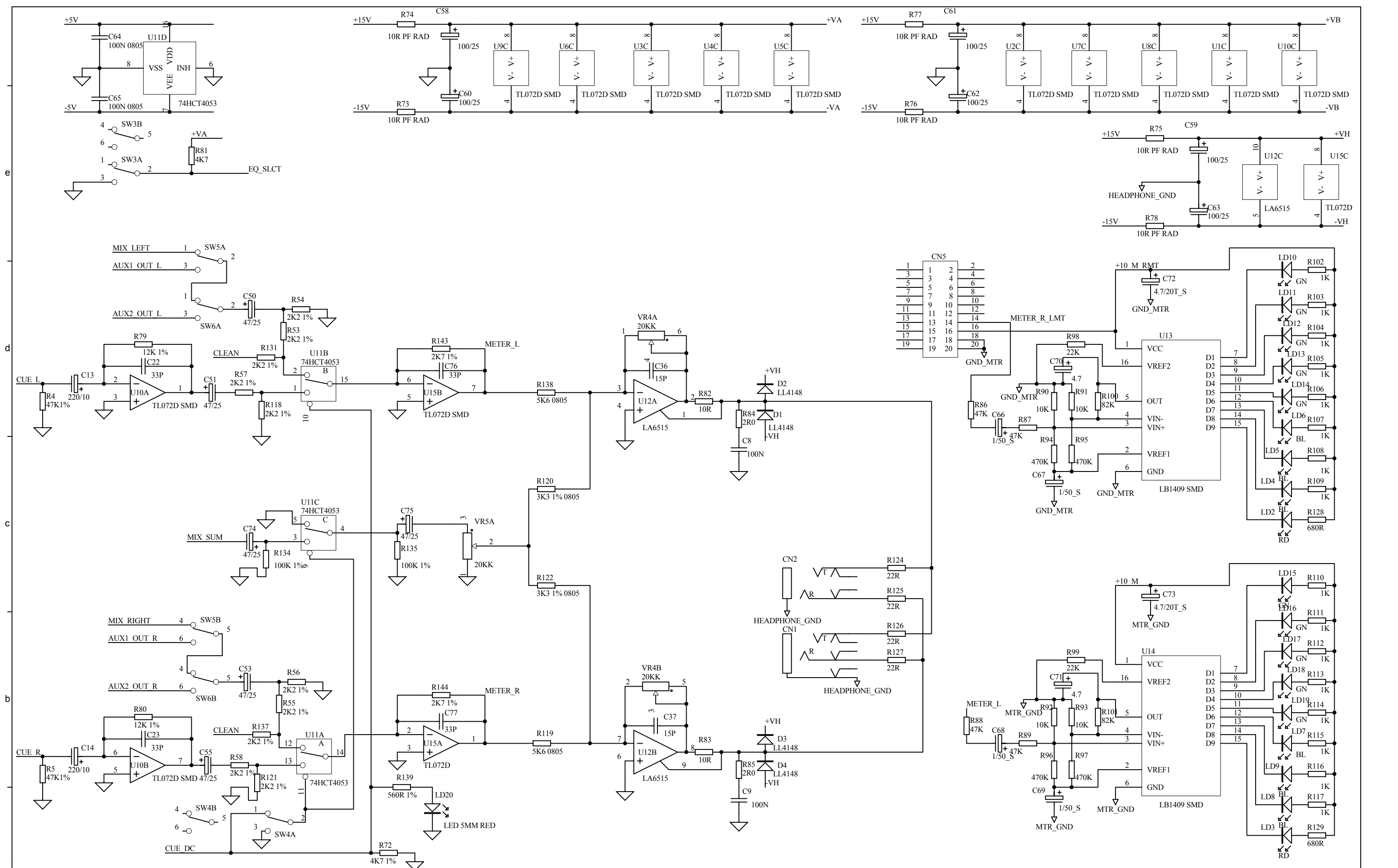
TO CONNECTOR PCB

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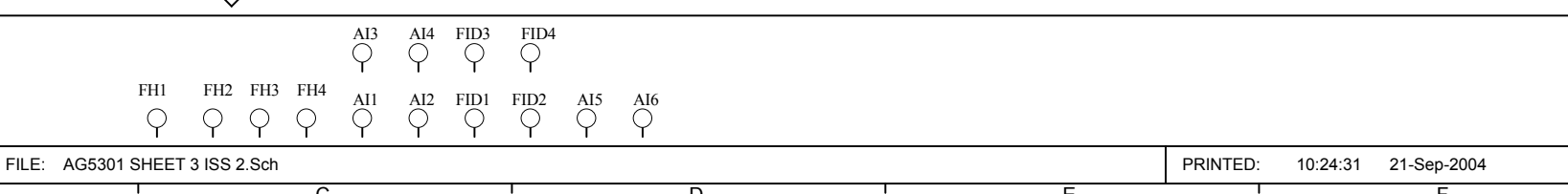


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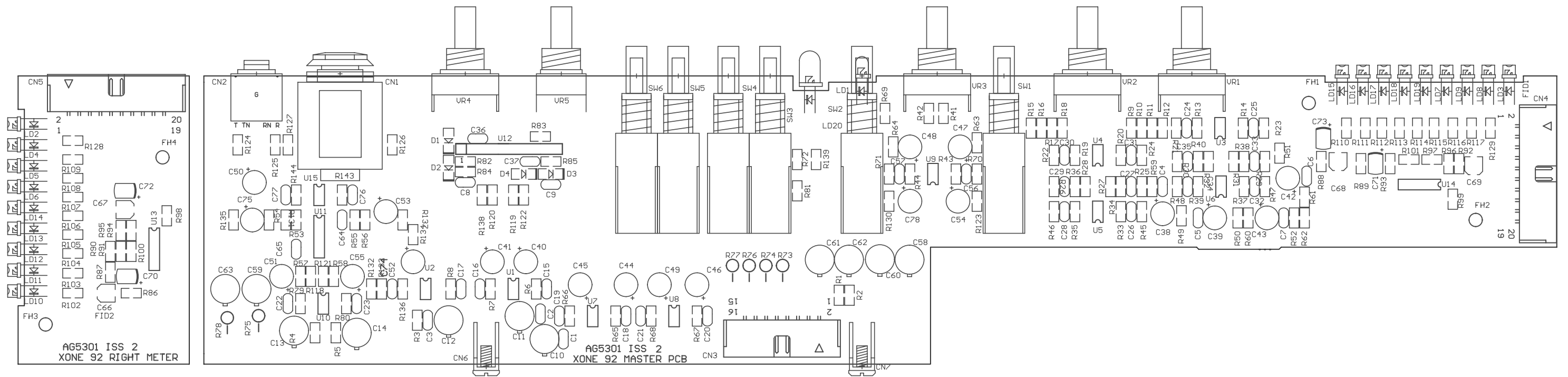


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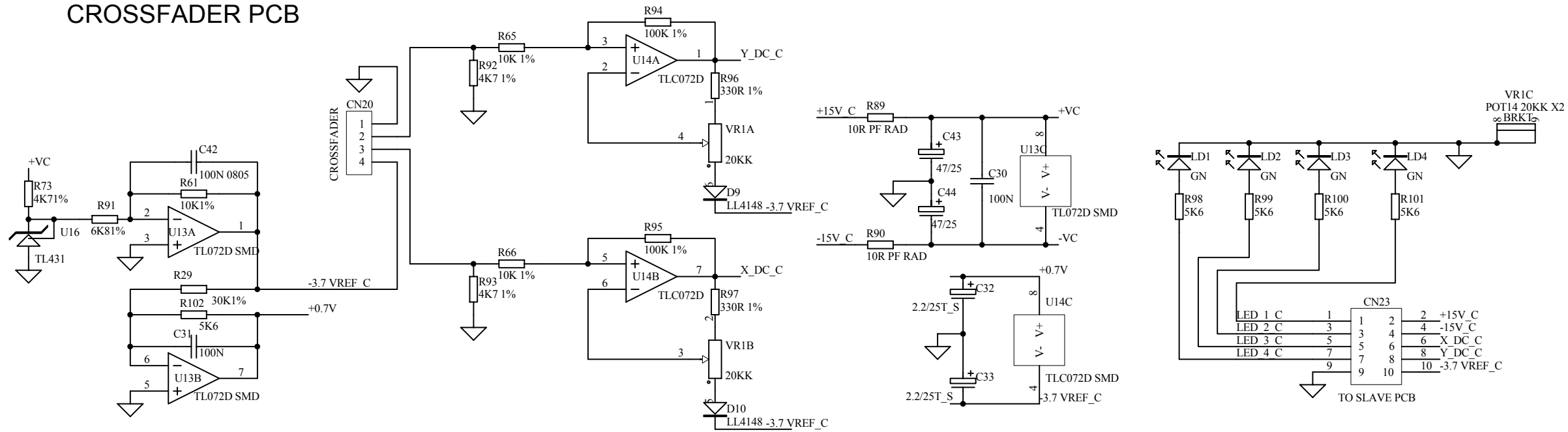
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 DRG No: C5301 ISSUE: 2 SHEET: 2 OF 2



CROSSFADER PCB



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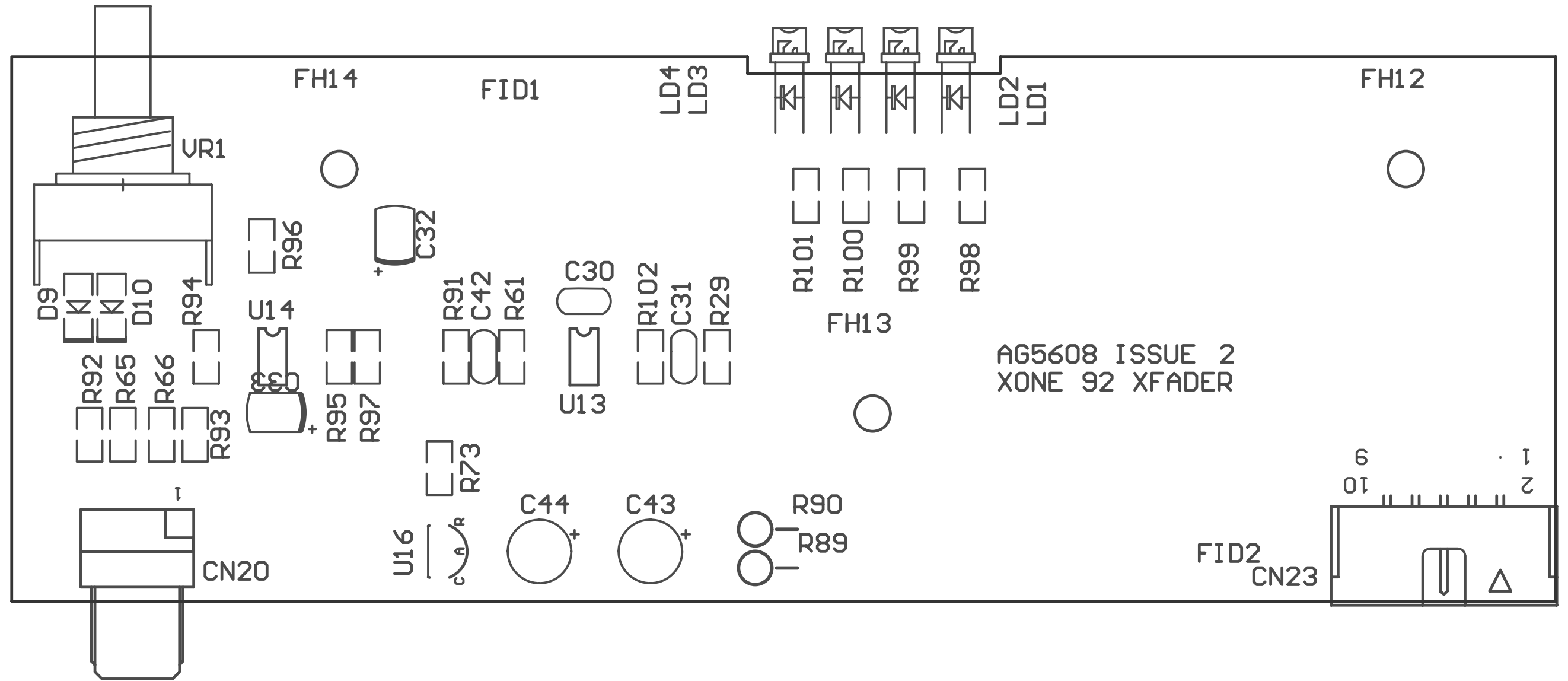
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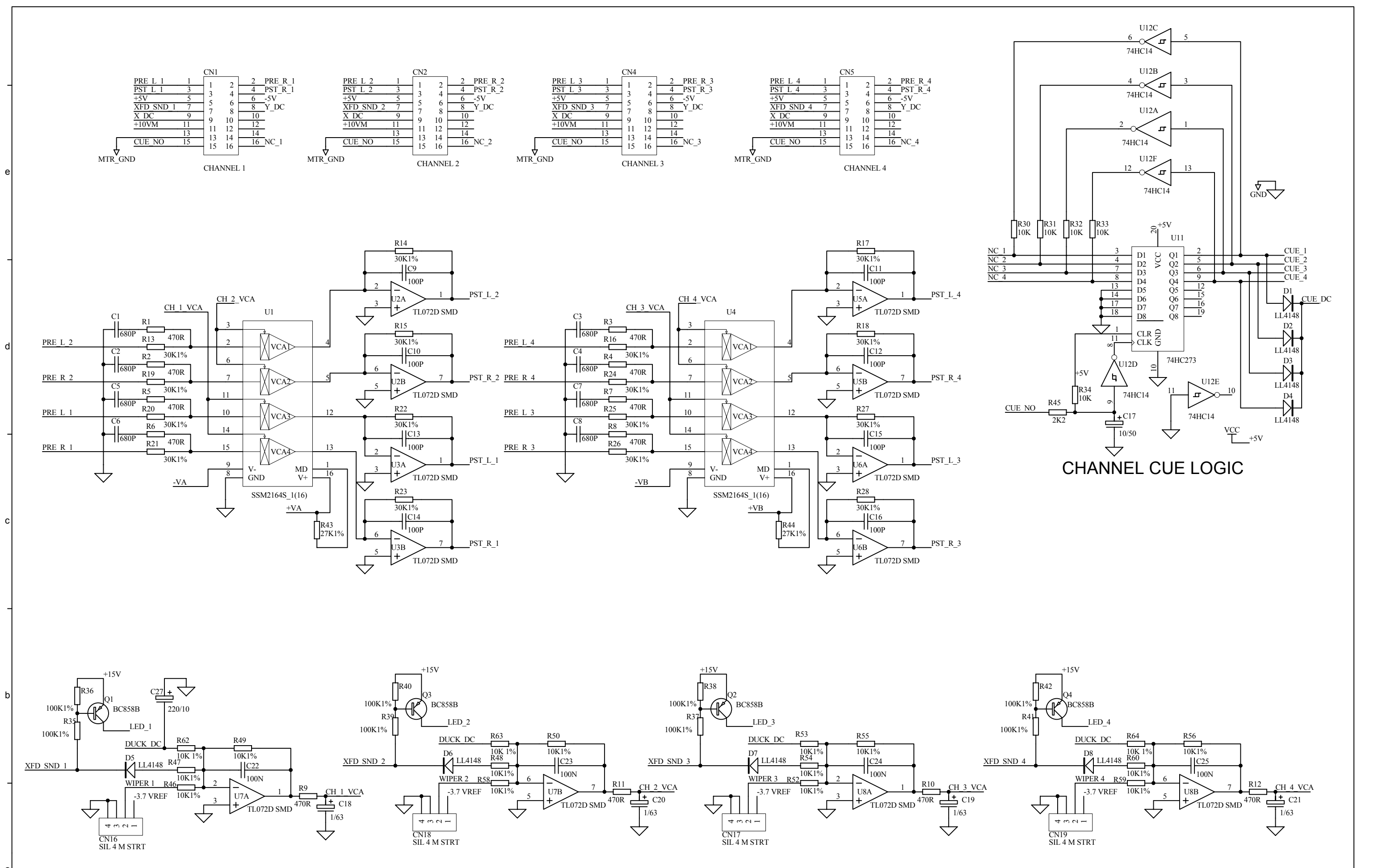
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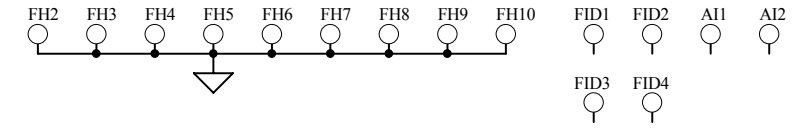
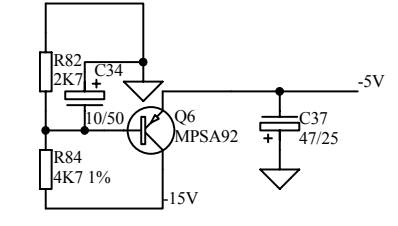
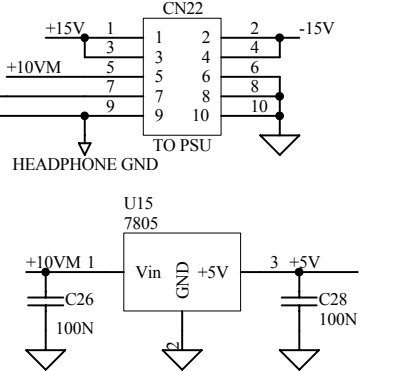
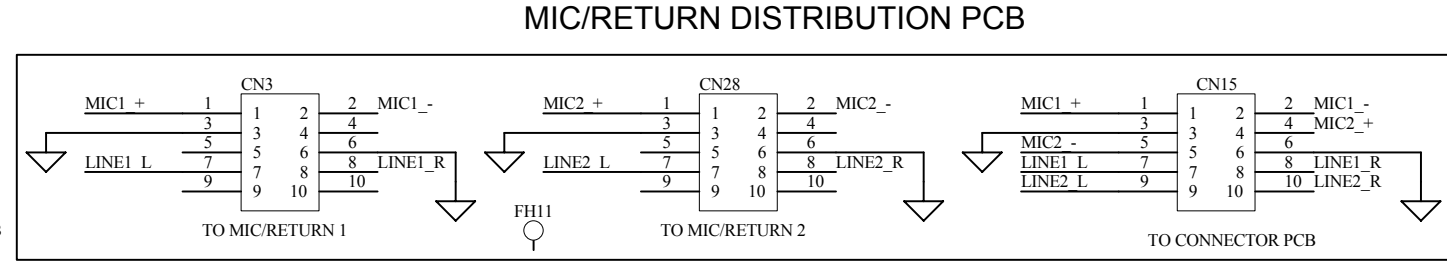
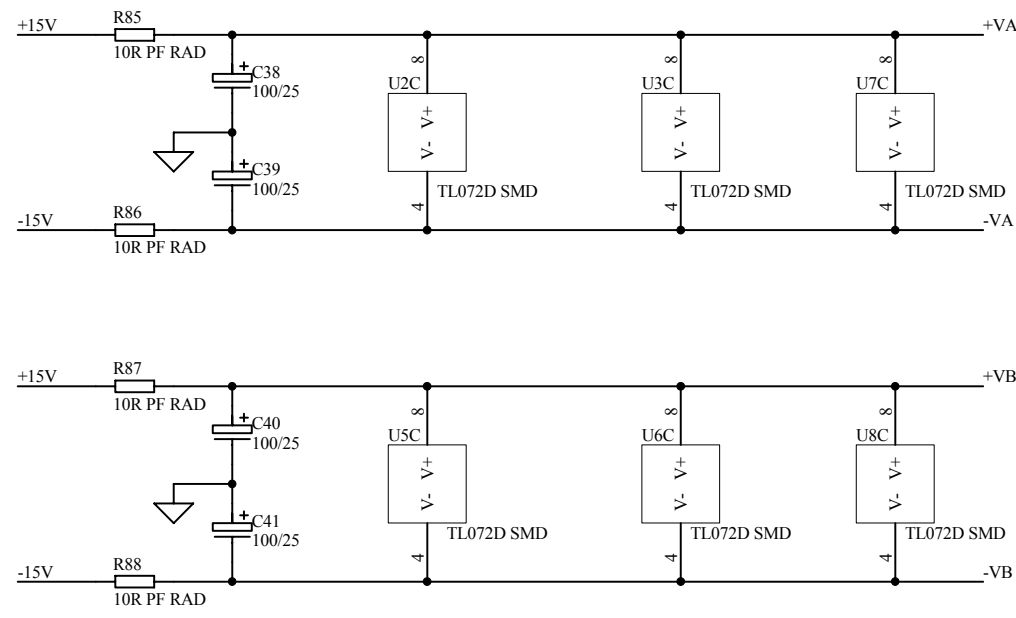
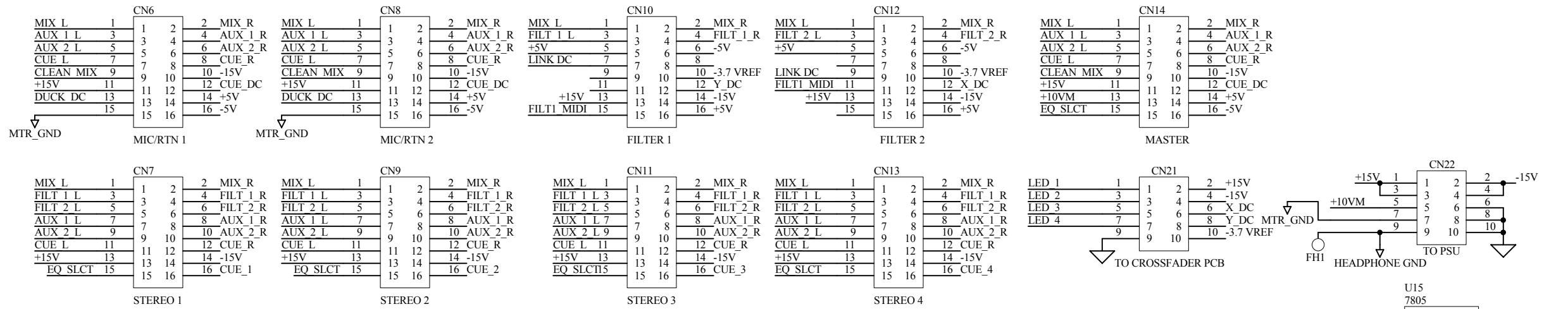
TITLE: XONE 92 CROSSFADER PCB
PAGE:
DRG No: C5608 ISSUE: 2 SHEET: 1 OF 1

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ALLEN&HEATH Kernick Industrial Estate, Penryn, Cornwall, England. TR10 9LU Tel: +44 (0)8707 556250 Fax: +44 (0)8707 556251	ISSUE	BY	DATE	CHK BY	TITLE: XONE 92 SLAVE CARD PAGE:	
	1	ARJ	07-11-03			DRG No: C5303
	2	ARJ	30-04-04		ISSUE: 2	
FILE: AG5303 ISS 2 SHEET 2.Sch					PRINTED: 10:48:27 21-Sep-2004	SHEET: 1 OF 2



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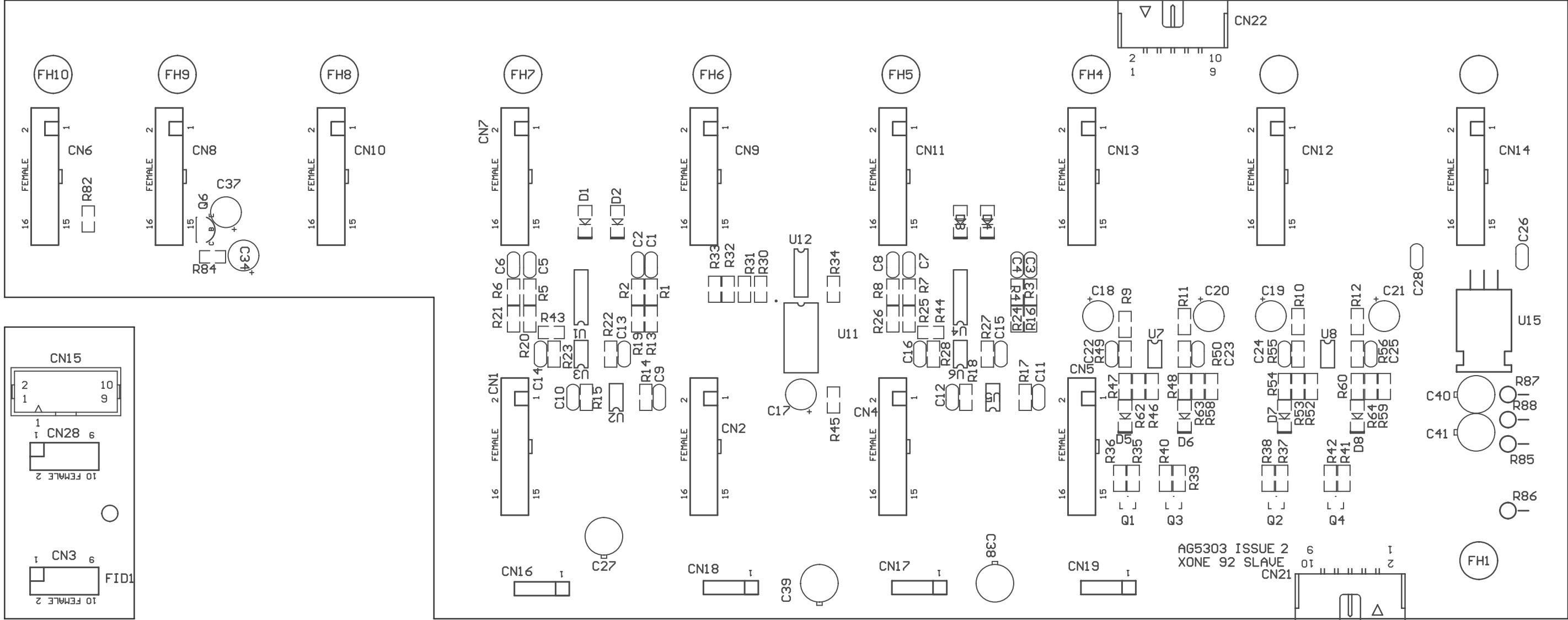
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1	ARJ	07-11-03	
2	ARJ	30-04-04	

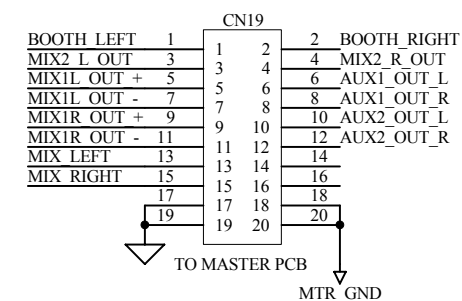
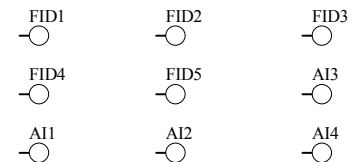
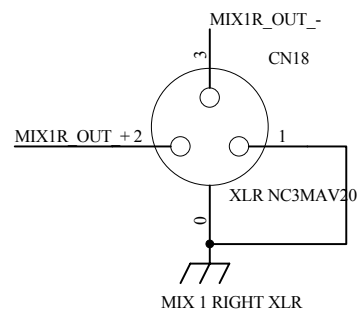
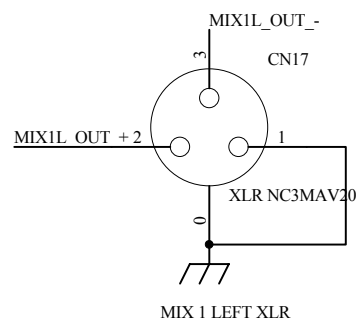
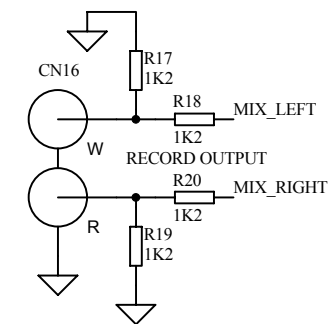
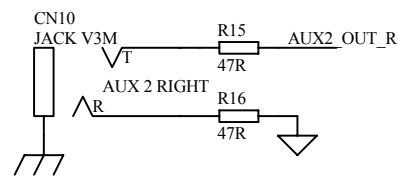
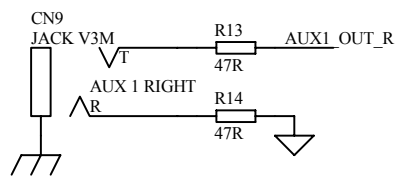
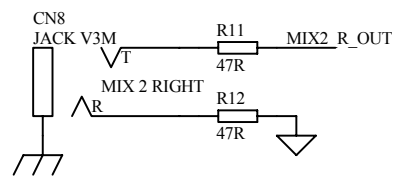
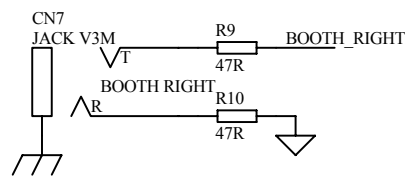
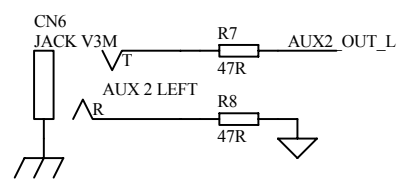
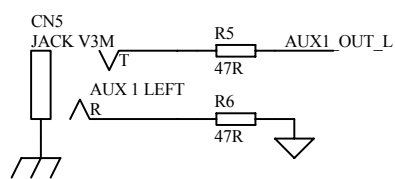
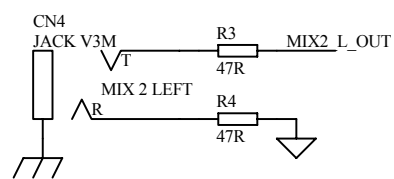
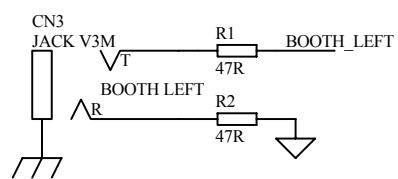
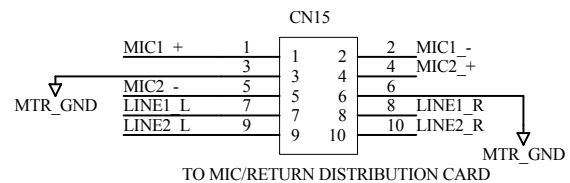
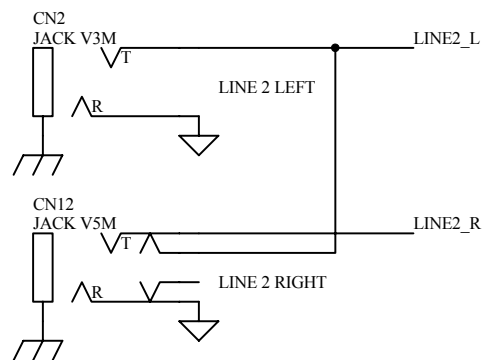
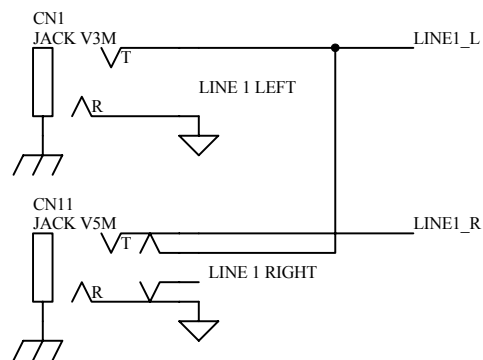
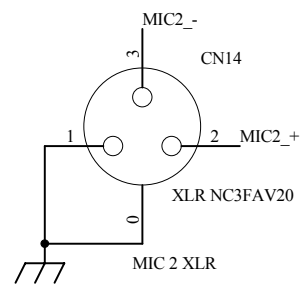
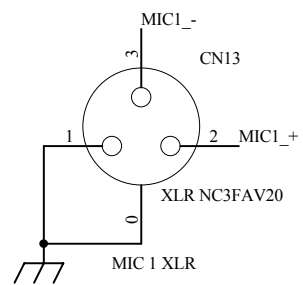
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PRINTED: 10:48:28 21-Sep-2004

TITLE: XONE 92 SLAVE CARD
 PAGE:

DRG No: C5303 ISSUE: 2 SHEET: 2 OF 2





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ISSUE	BY	DATE	CHK BY
1	JW	18-12-03	

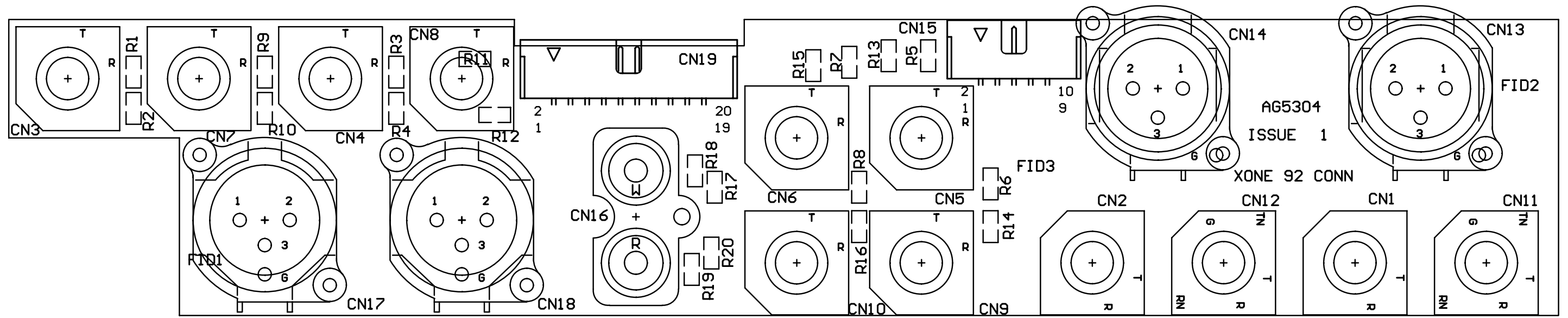
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PRINTED: 12:10:46 21-Sep-2004

TITLE: XONE 92 CONNECTOR PCB

PAGE:

DRG No: C5304 ISSUE: 1 SHEET: 1 OF 1



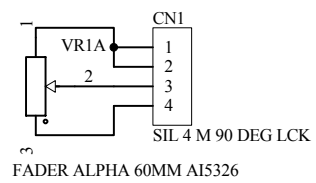
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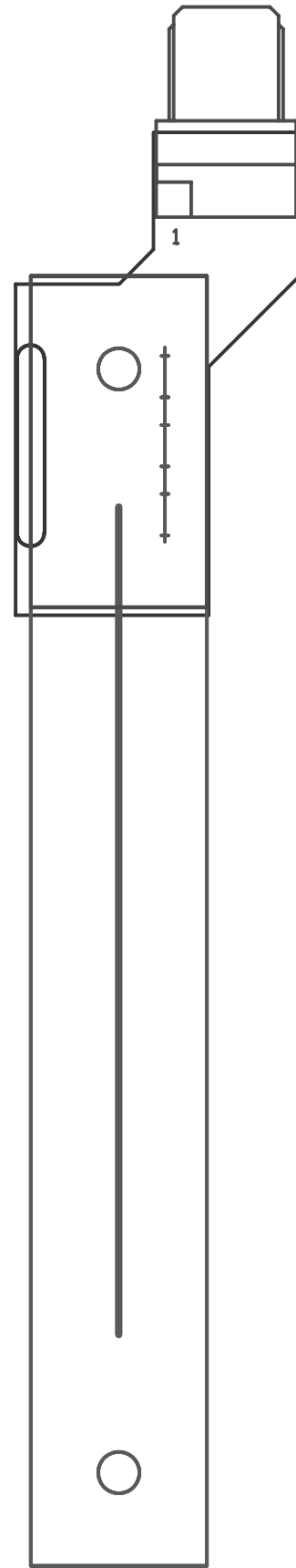
c

b

a



ISSUE	BY	DATE					TITLE: XONE 92 LINEAR FADER PCB	ALLEN&HEATH	
1	ARJ	07-11-03					PAGE:	Kernick Industrial Estate, Penryn, Cornwall, England. TR10 9LU	
FILE: AG5610 LINEAR FADER ISSUE 1.Sch			PRINTED: 11:24:23 21-Sep-2004		DRG No: C5610	ISSUE: 1	SHEET: 1 OF 1	A3 Tel: +44 (0)8707 556250 Fax: +44 (0)8707 556251	



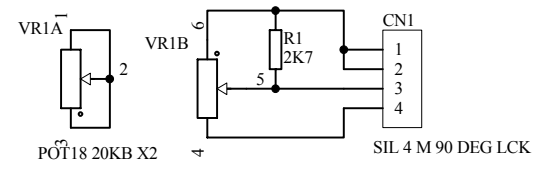
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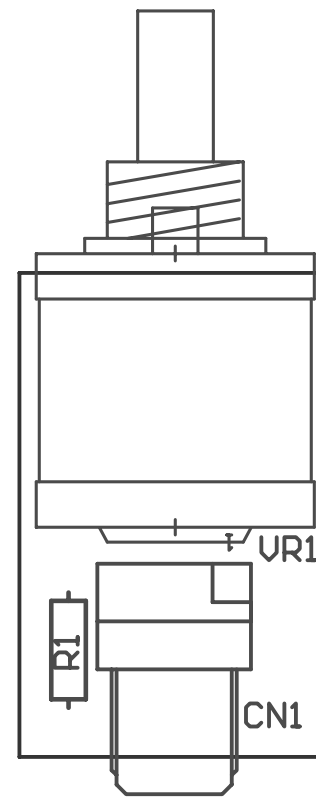
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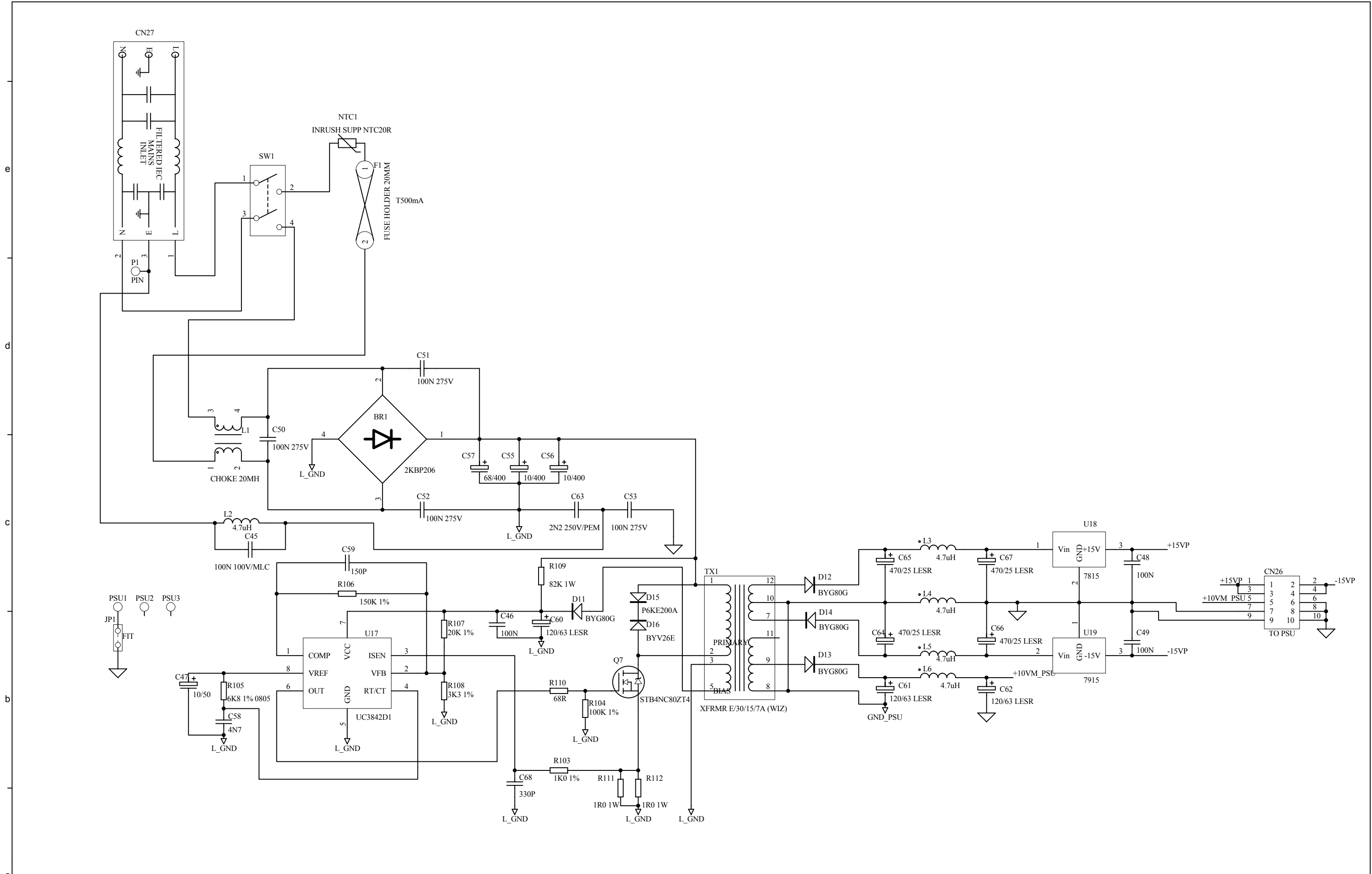


ISSUE	BY	DATE	A11 HOLE-A1		A12 HOLE-A1		TITLE: XONE 92 ROTARY FADER OPTION				
1	ARJ	07-11-03	○	○	○	○	PAGE:				
2	ARJ	30-04-04	○	○	○	○	DRG No: C5611	ISSUE: 2	SHEET: 1 OF 1	A3	
FILE: AG5611 ISSUE 2.Sch			PRINTED: 11:12:39 21-Sep-2004				Kernick Industrial Estate, Penryn, Cornwall, England. TR10 9LU Tel: +44 (0)8707 556250 Fax: +44 (0)8707 556251				

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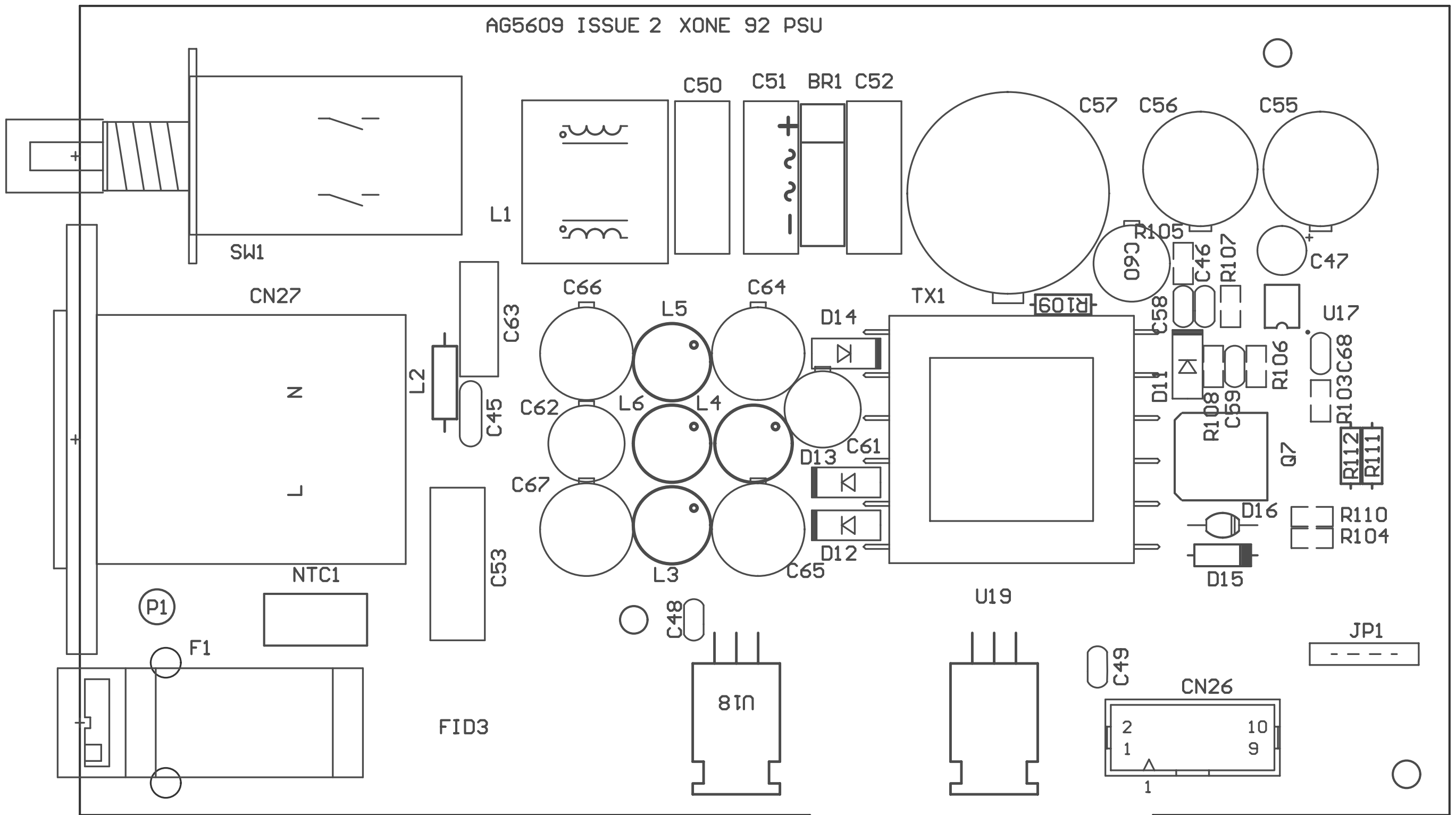
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ALLEN&HEATH Kernick Industrial Estate, Penryn, Cornwall, England. TR10 9LU Tel: +44 (0)8707 556250 Fax: +44 (0)8707 556251	ISSUE	BY	DATE	CHK BY	FID1	FID2	FID3	FID4	AI1	AI2	TITLE: XONE 92 POWER SUPPLY PAGE:
	1	ARJ	07-11-03								
	2	ARJ	04-05-04								PRINTED: 11:16:55 21-Sep-2004
FILE: AG5609 PSU_MAINS ISSUE 2.Sch											

AG5609 ISSUE 2 XONE 92 PSU

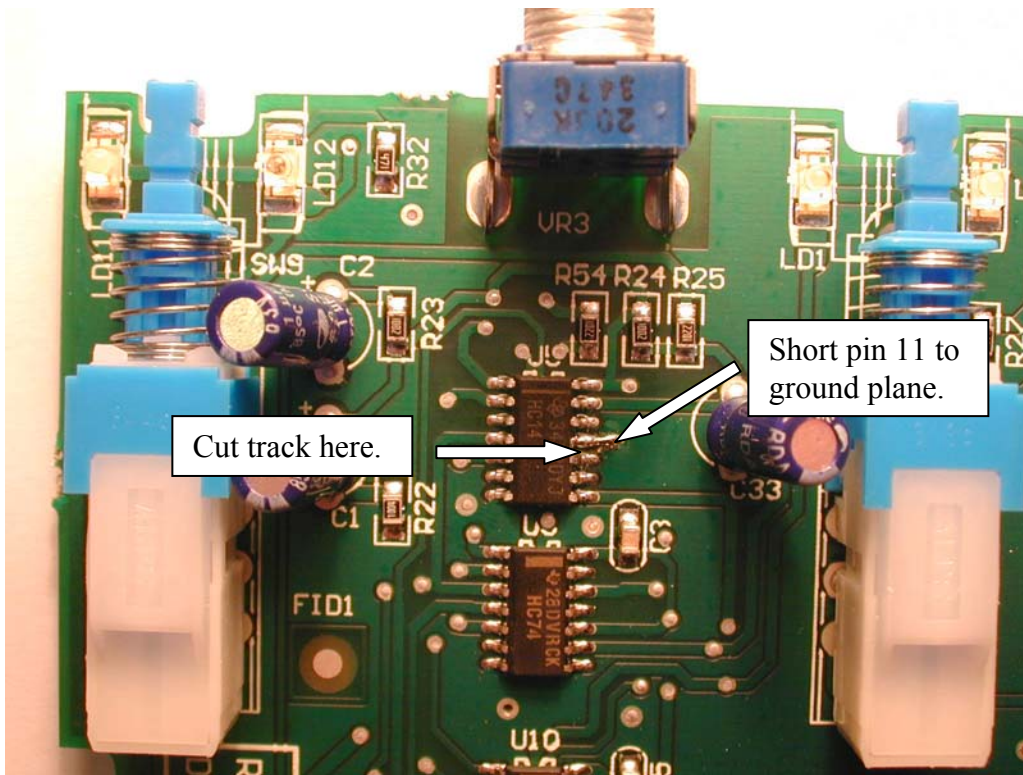


XONE:92 Filter 1 & Filter 2 PCB modification

ECN No: 984
Assembly No(s): 003-138 & 003-143, iss.2
Date: March 11th 2004
Reason: EMC emission reduction

Details of change:

Assy 003-138 & 003-143, PCB AG5300 issue 2
See below



This modification was carried out on issue 2 PCBs from March 11th 2004 until the introduction of the issue 3 PCBs.

XONE:92 Filter value change + diode addition

ECN No: 993
Assembly No(s): 003-138 & 003-143 iss.1 & 003-141 iss.1
Date: March 3rd 2004
Reason: To prevent the filters becoming unstable when all channels are assigned to the crossfader, with filters to crossfader selected, crossfader response on max and resonance on max.

Details of change:

On filter 1 and 2 (AG5300 issue 1) resistor R55 needs to change from 27K to 39K
On the slave card (AG5303) a diode (AE3914) needs to be soldered from pin 12 to ground on both connectors CN10 and CN12

This change was applied to issue 1 PCBs from serial no. 060507 until the introduction of the issue 2 Filter PCBs.

XONE:92 PSU IEC Mains Filter with Nutserts

ECN No: 998
Assembly No(s): 003-233, Issue 1 on
Date: March 29th 2004
Reason: To improve assembly of IEC to Chassis.

Details of change:

The IEC Mains Filter AL3458 now has nutserts, eliminating the need to fit two nyloc nuts (AB0102), and two screws (AB0078).

The new screws required are AB5564 x 2 (under head pips):

This change was applied to issue 1 PCBs onwards from March 2004.

XONE:92 Master PCB output level change

ECN No: 1018
Assembly No(s): 003-139, Issue 1
Date: May 14th 2004
Reason: Output level increase

Details of change:

RESISTOR VALUE CHANGES Assy 003-139, PCB AG5301 iss.1
Change R25 to R32 inclusive from AC5017 (8K2) to AC3062 (4K7)
R19, R20 from AC5036 (10K) to AC5628 (30K)
R22, R24 from AC4754 (6K8) to AC5038 (4K7 Melf)
R70, R71 from AC3039 (8K2) to AC5108 (2K7)

These resistor values were fitted on issue 1 PCBs from serial no. 063122 until the introduction of the issue 2 PCBs.

XONE:92 Slave PCB capacitor change

ECN No: 1020
Assembly No(s): 003-141, Issue 1
Date: May 17th 2004
Reason: Easier to select multiple channel cues.

Details of change:

CAPACITOR VALUE CHANGE Assy 003-141, PCB AG5303 iss.1
Change capacitor C17 from 1/63 (AF0210) to 10/50 (AF0214)

This capacitor was fitted to issue 1 PCBs from serial no 063515 until the introduction of the issue 2 PCBs.

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Parts identification sheet

Xone:92

How to order parts

Parts must be ordered from our distributor in your territory. A list of international distributors can be viewed at <http://www.allen-heath.com/UK/distributors.asp>


UK parts must be ordered through an appointed A&H dealer or service centre. A list of UK service centres can be viewed at http://www.allen-heath.com/UK/service_centres.asp


Screw AB3818 top panel to chassis SILVER.
 Screw AB3329 top panel to chassis STORM GREY.
 Screw AB3819 fader & x-fader SILVER.
 Screw AB0070 fader & x-fader STORM GREY.





MIC/RTN channel

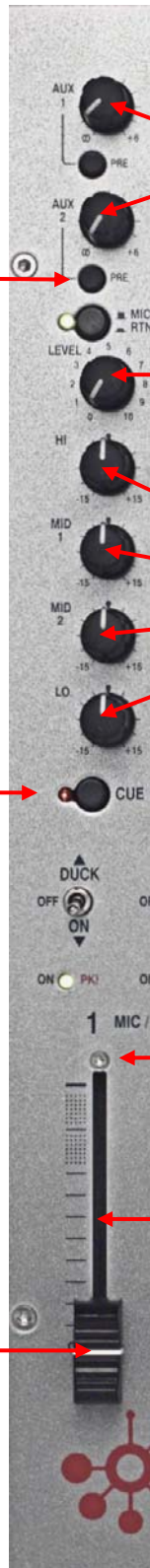
POTS FADERS & KNOBS:


Knob small black
AJ5386 


Small switch cap
AJ5388 


Large switch cap
AJ4251 


MIC/RTN fader
knob
AJ4310 




Aux pot
AI8007 

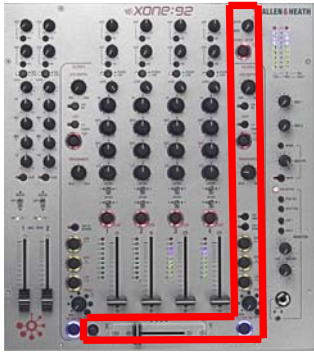
Level pot
AI8007 

EQ
HI, MID1, MID2, LO
AI8006 

Fader screw
AB3329 

MIC/RTN fader
002-684 

Front panel
Silver AA5319
Storm grey
AA7581



X-fader & filters

Black knob small
AI5386



Black button
AI5325



Black knob large
AI5387



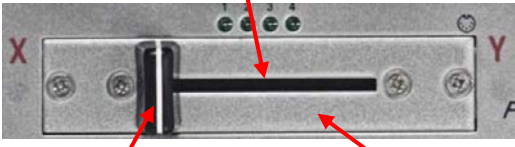
Large switch cap
AJ4251



Xfade curve
very small
black knob
AJ5558



X-fader
002-719



Xone x-fader
knob
AJ4251



Fader plate
storm grey
AA7492



DATA, MIDI
pot
AI8004



LFO DEPTH
pot
AI8003



RESONANCE
pot
AI8007



FREQ pot
AI8003





Stereo channel

Black knob
small
AI5386



Small switch cap
AJ5388



Aux pot
AI8007



Level pot
AI8006



Large switch cap
AJ4251



Black knob
large
AI5387



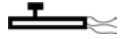
EQ
HI, MID1, MID2, LO
AI5317



1-2 X-Y
Toggle switch
AI5328



Line fader
003-144



Xone fader knob
AJ5320





Monitor section



Black knob small
AI5386

MIX 1-2
AI8007

Large switch cap
AJ4251

Booth pot
AI8007

Small switch cap
AJ5388

CUE ADD MIX
AI8003

Large headphone socket
AL0328

Headphone level
AI8007

Small headphone socket
AL5323

Phono shorting plug
AL4396

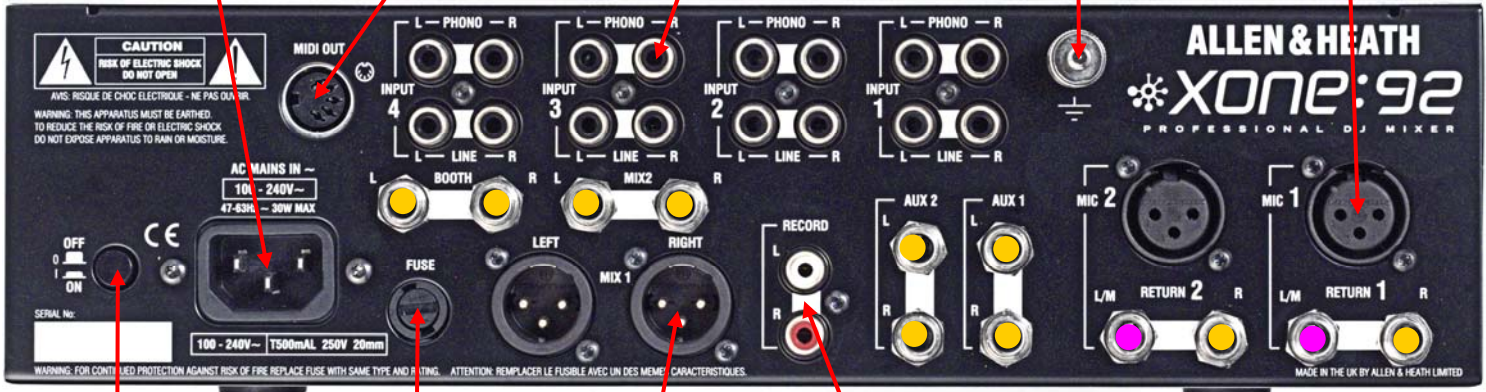
AC inlet
AL3458

MIDI
AL3962

RCA Phono
AL4977

Ground post
AL8106

XLR female
AL2410



Switch
AL3338

Fuse holder
AL3178

XLR male
AL2411

RCA phono
AL3753

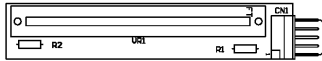
Jack
AL3410

Button
AJ2887

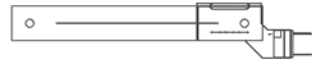
Fuse
AL3534

Jack
AL3407

INTERIOR PARTS:



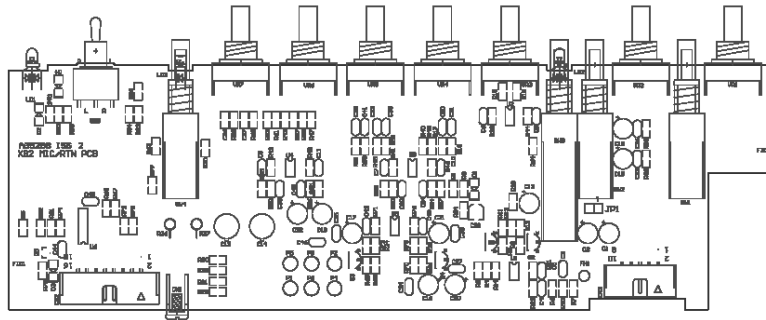
Stereo fader 002-684



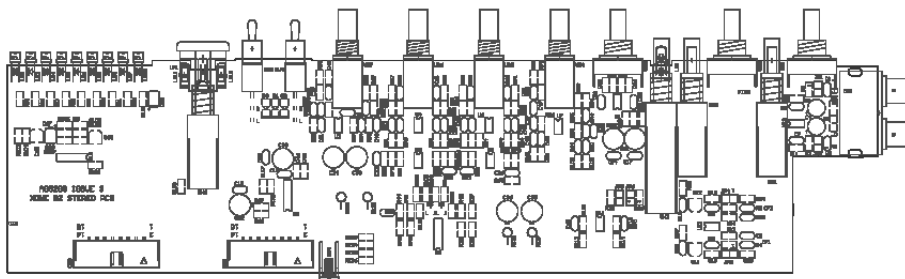
Linear fader 003-144



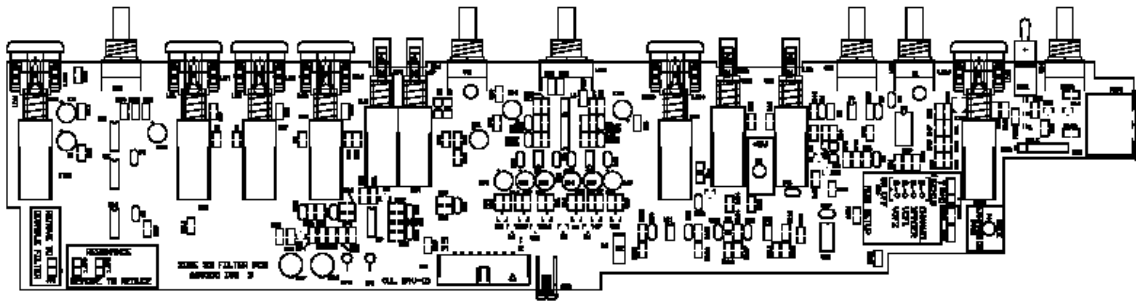
Rotary fader 003-145 (92R)



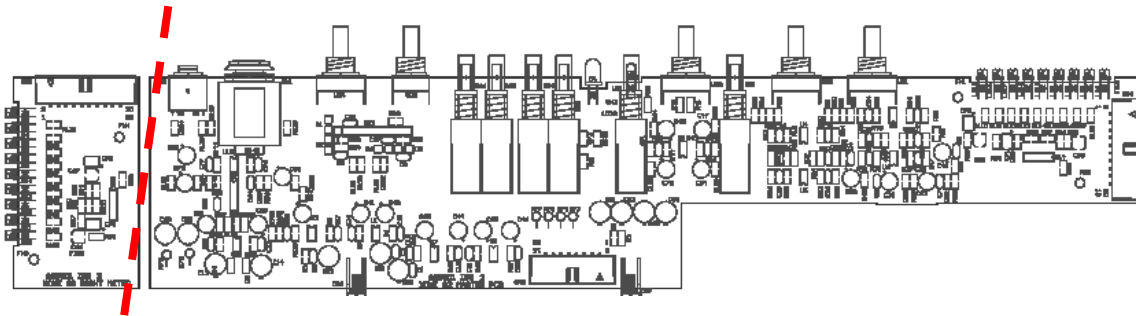
Mic/Stereo Return 003-136



Stereo 003-137

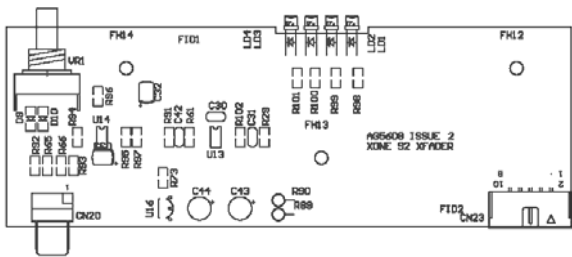


Filter 003-138

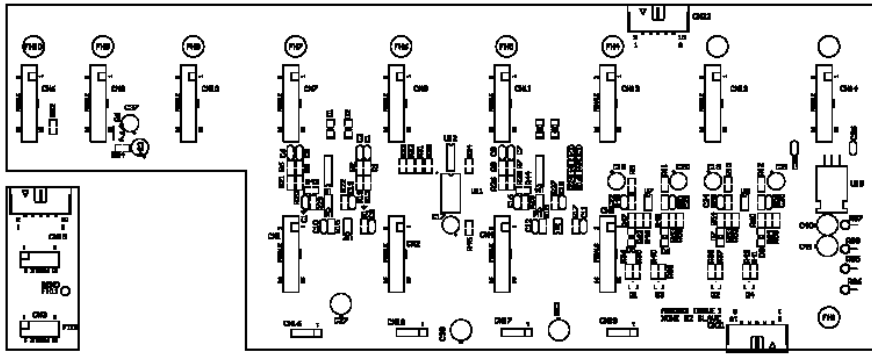


Meter snap-off

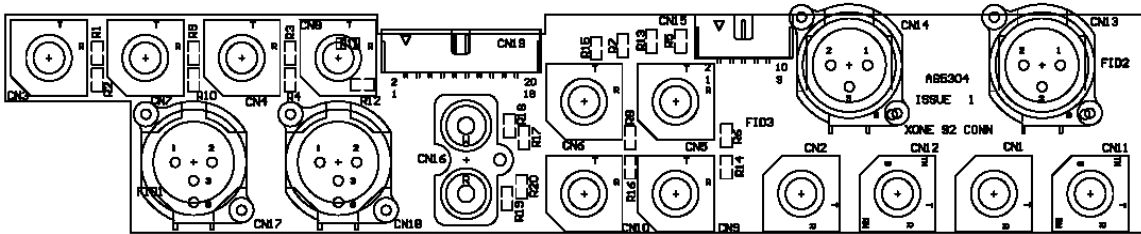
Master 003-139



Xfade 003-140



Slave 003-141



Connector 003-142