

ALLEN & HEATH



PA Series

1kW Powered & Unpowered Audio Consoles

SERVICE INFORMATION

Publication AP5288

Introduction

This publication provides technical information on servicing the Allen & Heath **PA Series** consoles. Included are system block diagram, internal layout drawing and circuit schematics with board layouts and spare parts lists. 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
Effects editor software	PA-FX Editor	Download from web site
PA-CP user guide	AP4956	Operating instructions Performance specification
PA user guide	AP5195	Operating instructions Performance specification

PA Series Service Information

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ALLEN&HEATH

Allen & Heath Limited

Kernick Industrial Estate, Penryn, Cornwall, TR10 9LU, UK

<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 – PA-CP

- User maintenance:** There are no user serviceable parts inside. It should not be necessary for the user to remove the cover or access internal parts.
- Technology:** The PA-CP uses conventional thru-hole and SMT (surface mount) PCB technology. It has a built-in linear regulated power supply which should be serviced by suitably qualified personnel only.
- Operation:** To test the console make sure it is connected as described in the user guide. Check that the voltage setting marked on the rear panel is correct for the local mains supply.
- Fault finding:** For effective fault diagnosis trace the signal flow through the circuit path. Refer to the system block diagram. Replacement circuit assemblies are available from Allen & Heath.

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PA Series – Historical Change Log

The following list identifies historical changes to the **PA Series**. 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
Main	Fader change to add extra master fader	019388	16/06/03	917
003-094	PA SMPSU PCB Minimum current increase for TL783	018930	23/09/03	949
003-069	PA-CP Linear PSU PCB +/- 15V rail fuse value changes	018780	23/09/03	950
003-094	PA SMPSU PCB post regulation added – up-issue to issue 4	-	13/11/03	966
003-034	PA CP Mono Input 48V 22R type change	-	25/02/04	990

PA Series Surface Parts



9MM POT NUT **AB8050**

GREY-RED KNOB **AJ2074**
14MM 5KRDx2 POT **AI8174**

GREY PUSH BUTTON **AJ2864**
LATCHING SWITCH **AL0162**

GREY-L/BLUE KNOB **AJ2076**
11MM 20KB C/D POT **AI8004**

GREY-GREEN KNOB **AJ2077**
11MM 200KCx2 POT **AI8005**

11MM 20KB C/D POT **AI8004**

11MM 20KB C/D POT **AI8004**

11MM 20KB C/D POT **AI8004**

GREY-GREY KNOB **AJ2078**
11MM 20KK POT **AI8003**

11MM 20KK POT **AI8003**

GREY-BLUE KNOB **AJ2075**
11MM 20KK POT **AI8003**

GREY-YELLOW KNOB **AJ2079**
11MM 20KK POT **AI8003**

GREY-BROWN KNOB **AJ2080**
14MM 10KACx2 C/D POT **AI8008**

RED TOMBSTONE LED **AE4863**
WHITE PUSH BUTTON **AJ2962**
LATCHING SWITCH **AL0162**

RED LED **AE0086**

ROUND GREY PUSH BUTTON **AJ2864**
LATCHING SWITCH **AL0162**

M3x5 SCREW **AB4661**

WHITE-BLACK FADER KNOB **AJ8078**
100MM 10KD FADER **AI8117**

14MM 20KKx2 POT **AI8007**

LATCHING SWITCH **AL0162**

14MM 20KKx2 POT **AI8007**

14MM 20KBx2 C/D POT **AI8006**

14MM 20KBx2 C/D POT **AI8006**

11MM 20KK POT **AI8003**

11MM 20KK POT **AI8003**

11MM 20KK POT **AI8003**

11MM 20KK POT **AI8003**

14MM 10KACx2 C/D POT **AI8008**

LATCHING SWITCH **AL0162**

LATCHING SWITCH **AL0162**

BLUE-BLACK FADER KNOB **AJ8081**
100MM 10KDx2 FADER **AI8118**

14MM 20KKx2 POT **AI8007**

11MM 20KK POT **AI8003**

11MM 20KK POT **AI8003**

GREEN TOMBSTONE LED **AE4864**

MOMENTARY SWITCH **AL0374**

M3x5 SCREW **AB4661**

LATCHING SWITCH **AL0162**

LATCHING SWITCH **AL0162**

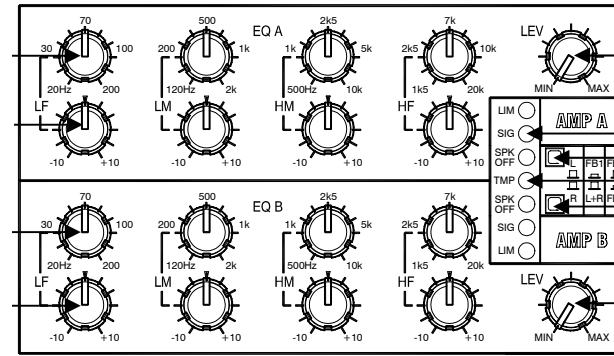
YELLOW-BLACK FADER KNOB **AJ8080**
100MM 10KDx2 FADER **AI8118**

11MM 200KCx2 POT **AI8005**

11MM 20KB C/D POT **AI8004**

11MM 200KCx2 POT **AI8005**

11MM 20KB C/D POT **AI8004**



11MM 20KK POT **AI8003**

GREEN LED **AE0085**

LATCHING SWITCH **AL0162**

YELLOW LED **AE0084**

LATCHING SWITCH **AL0162**

11MM 20KK POT **AI8003**

12WAY LED BAR **AE2701**

4ABx5/16 SCREW **AB0059**

5MM RED LED **AE0001**

14MM 20KKx2 POT **AI8007**

LATCHING SWITCH **AL0162**

M3x5 SCREW **AB4661**

LATCHING SWITCH **AL0162**

LATCHING SWITCH **AL0162**

BLACK-WHITE FADER KNOB **AJ3503**
100MM 10KD FADER **AI8117**

PA12-CP CONSTANT POWER

BLUE LED **AE4041**

LATCHING SWITCH **AL0162**

11MM 20KK POT **AI8003**

LATCHING SWITCH **AL8065**

LATCHING SWITCH **AL8065**

14MM 20KKx2 POT **AI8007**

GREEN TOMBSTONE LED **AE4864**

LATCHING SWITCH **AL0162**

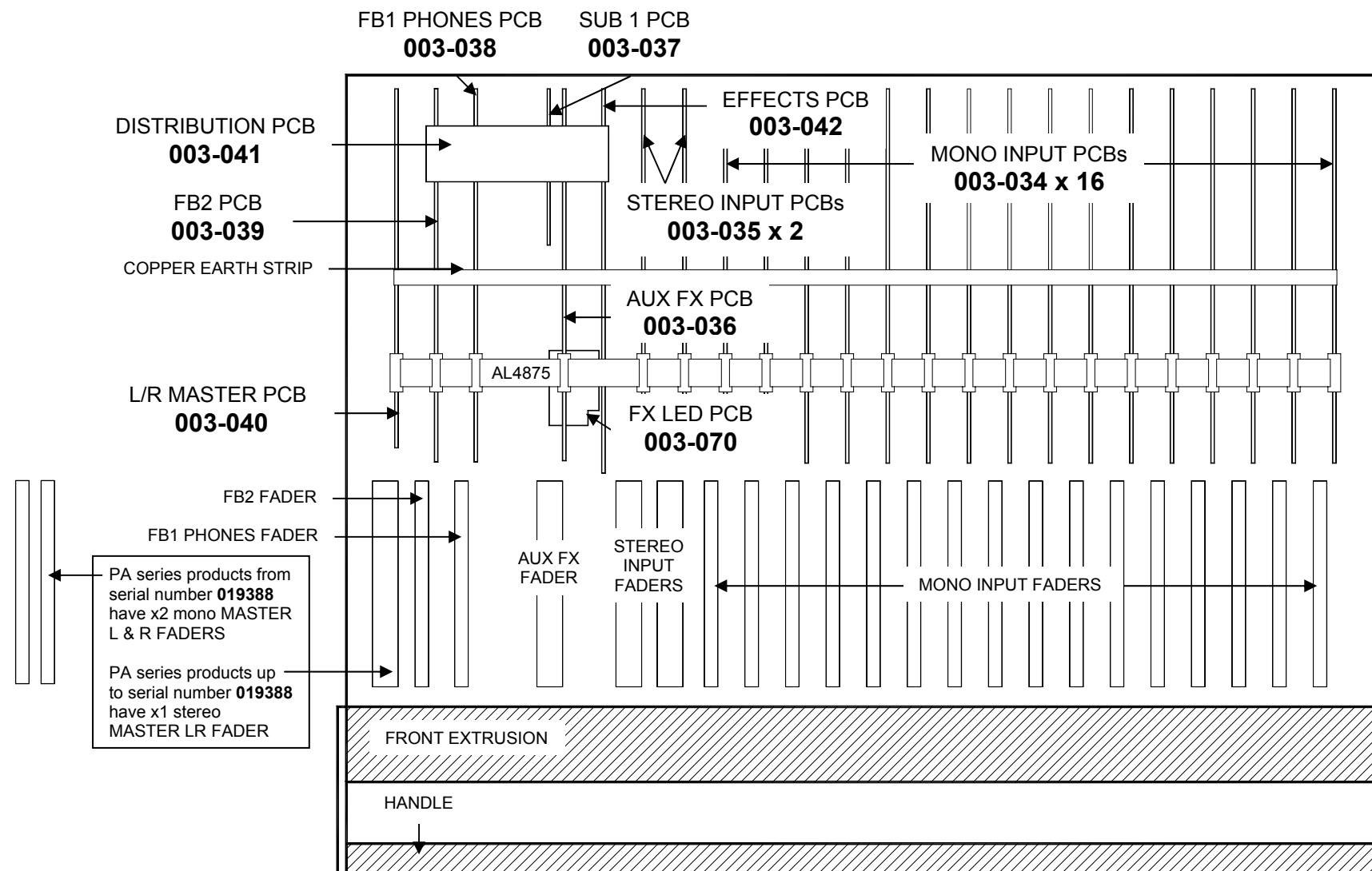
LATCHING SWITCH **AL0162**

PA series products up to serial number **019388** have x1 stereo MASTER LR FADER

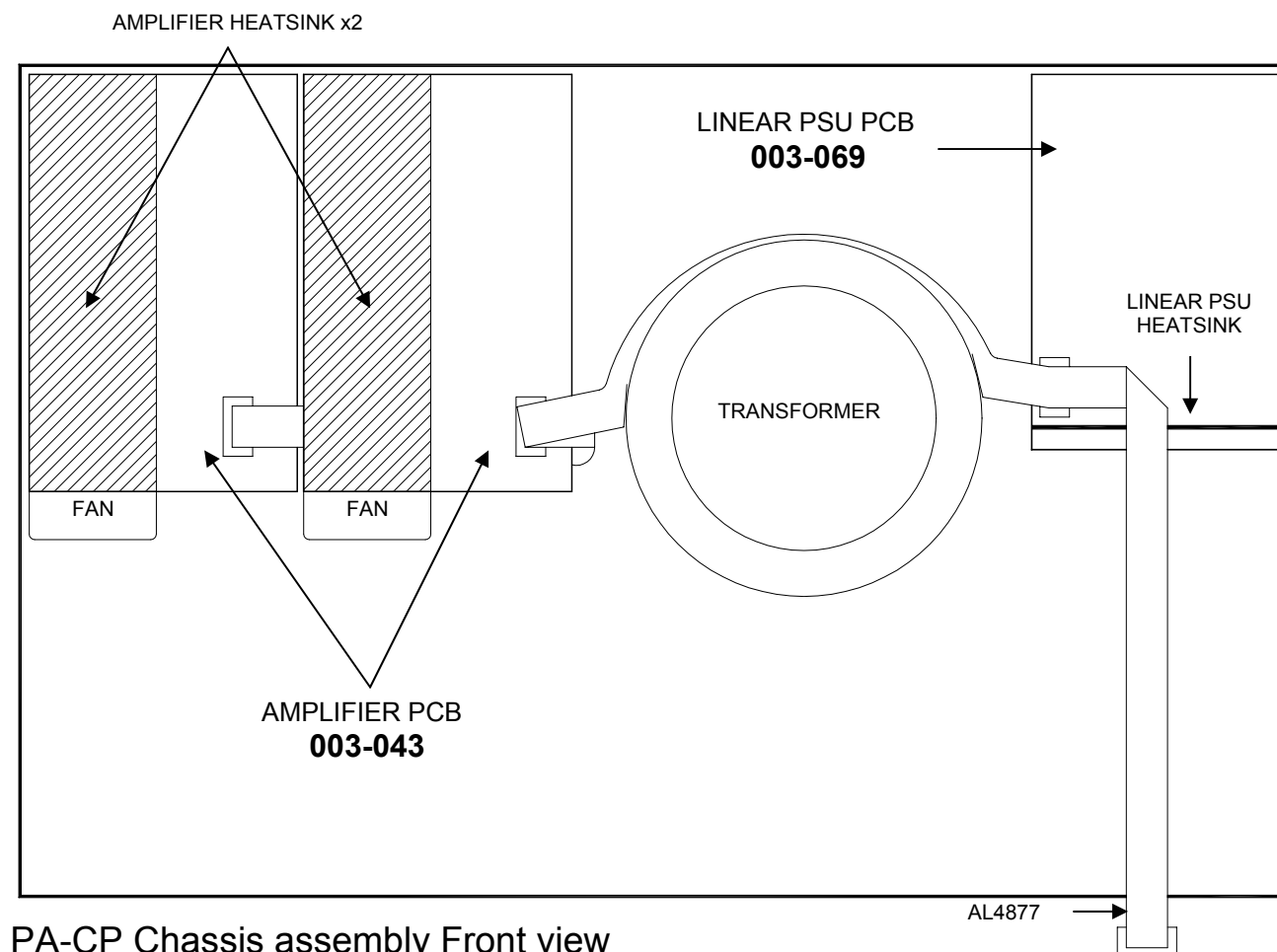
PA series products from serial number **019388** have x2 mono MASTER L & R FADERS

RED-BLACK FADER KNOB **AJ8079**
100MM 10KDx2 FADER **AI8118**

RED-BLACK FADER KNOB **AJ8079**
100MM 10KD FADER **AI8117**



PA-CP Front Panel assembly Front view (20ch. shown)

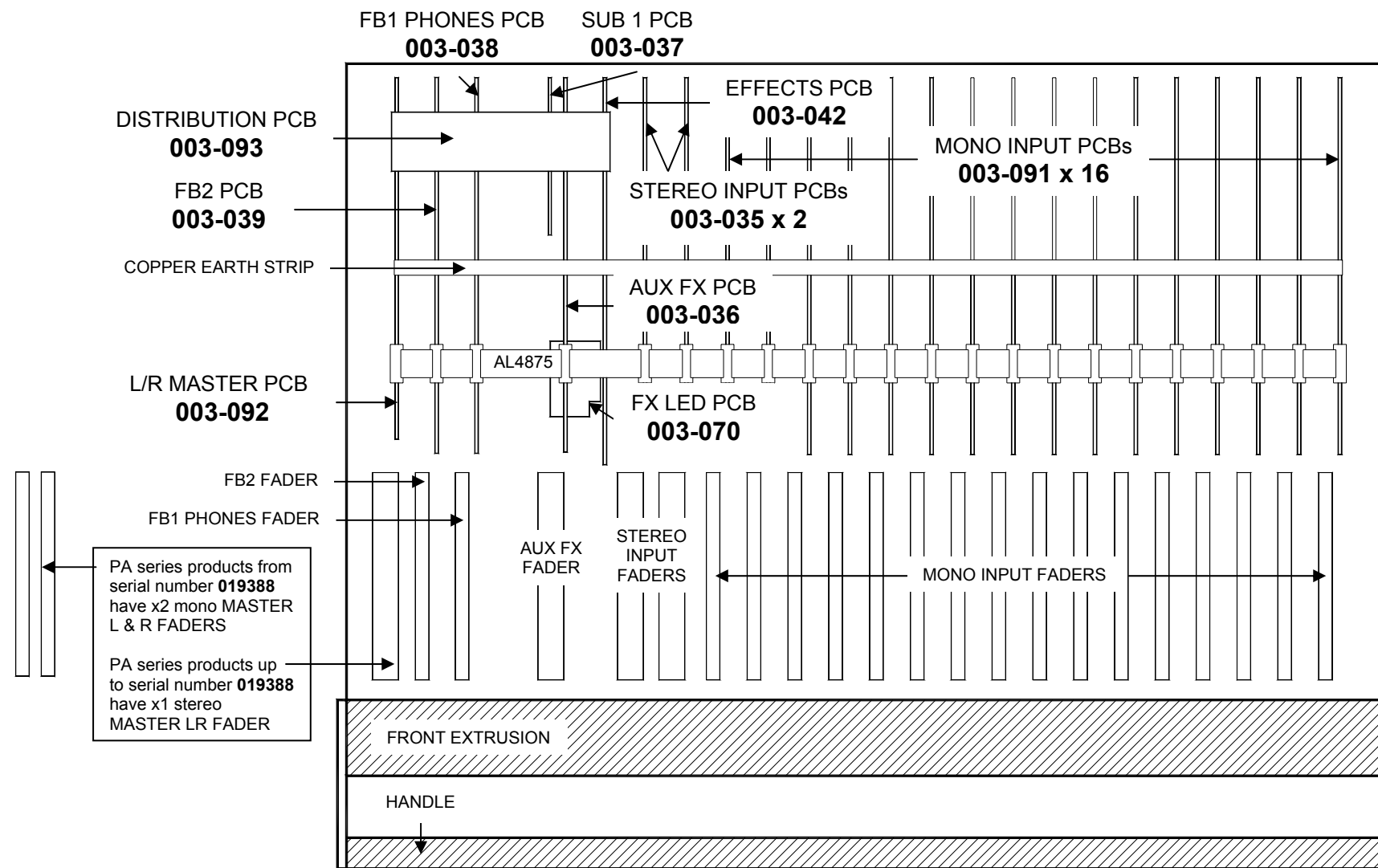


PA-CP Chassis assembly Front view

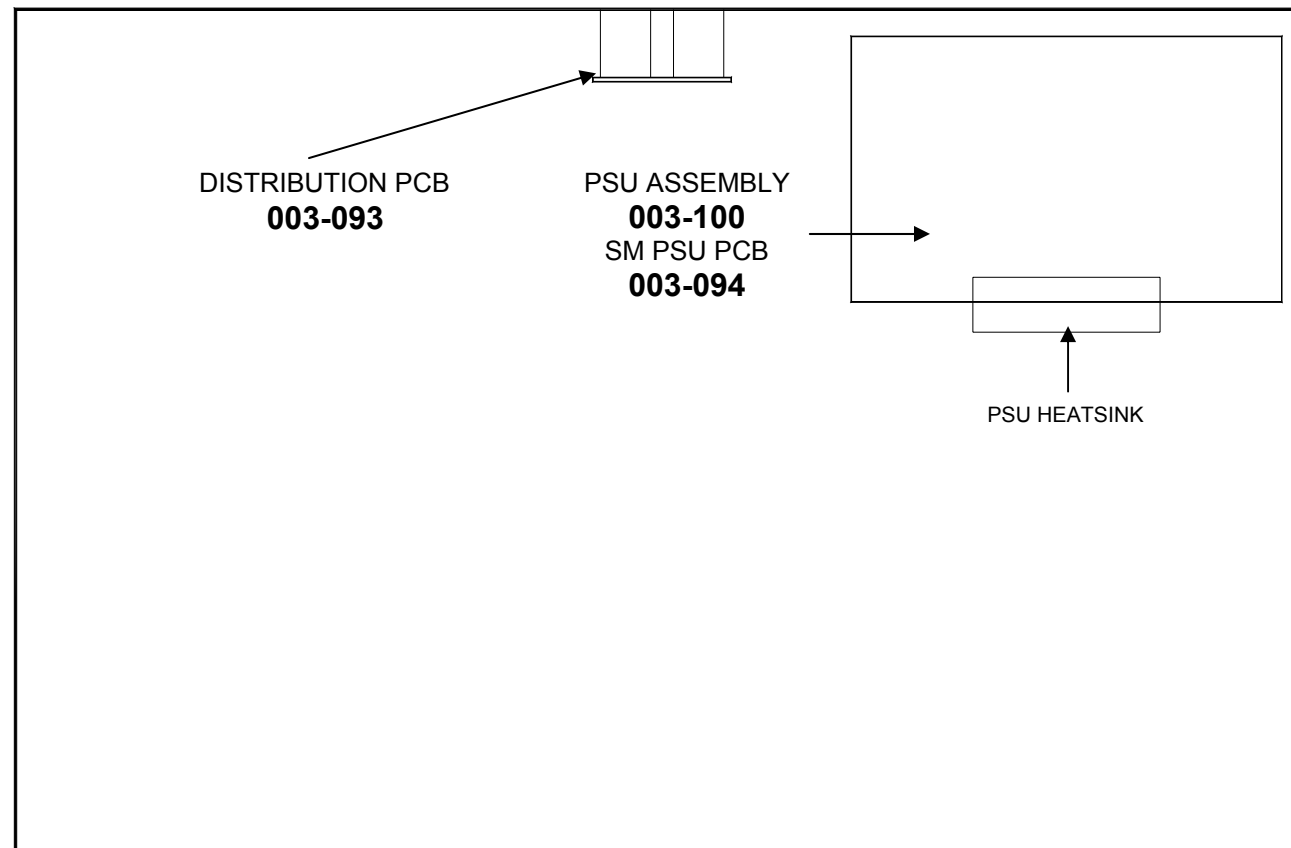
PA-CP Powered version

Product.....	PA12-CP/100
.....	PA12-CP/120
.....	PA12-CP/220
.....	PA12-CP/240
.....	PA20-CP/100
.....	PA20-CP/120
.....	PA20-CP/220
.....	PA20-CP/240
PA12-CP Pack Assembly	003-030
PA12-CP Main Assembly	003-031
PA12-CP Top Panel Assy.	003-032
PA12-CP Base Panel Assy.	003-033
PA12-CP Rack Ear Assy.....	003-071
PA20-CP Pack Assy.....	003-083
PA20-CP Main Assy.....	003-084
PA20-CP Top Panel Assy.	003-085
PA20-CP Base Panel Assy.	003-086

Mono Input PCB	003-034
Stereo Input PCB	003-035
Aux FX PCB	003-036
Sub 1 PCB.....	003-037
FB1 Phones PCB	003-038
FB2 PCB	003-039
Master L/R PCB	003-040
Distribution PCB	003-041
Effects PCB	003-042
Amplifier PCB	003-043
Linear PSU PCB.....	003-069
FX LED PCB	003-070



PA Front Panel assembly Front view (20ch. shown)



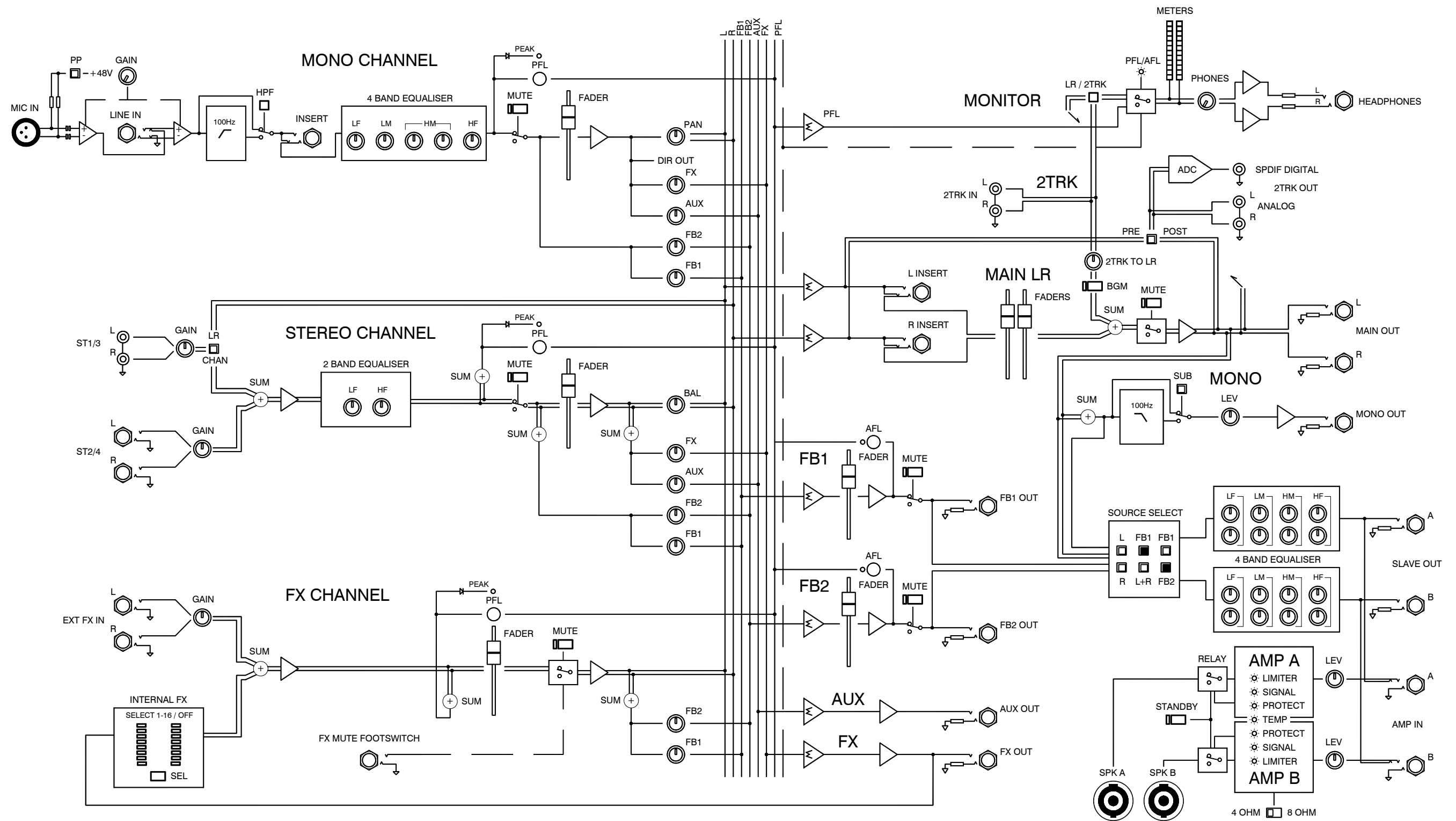
PA Chassis assembly Front view

PA unpowered version

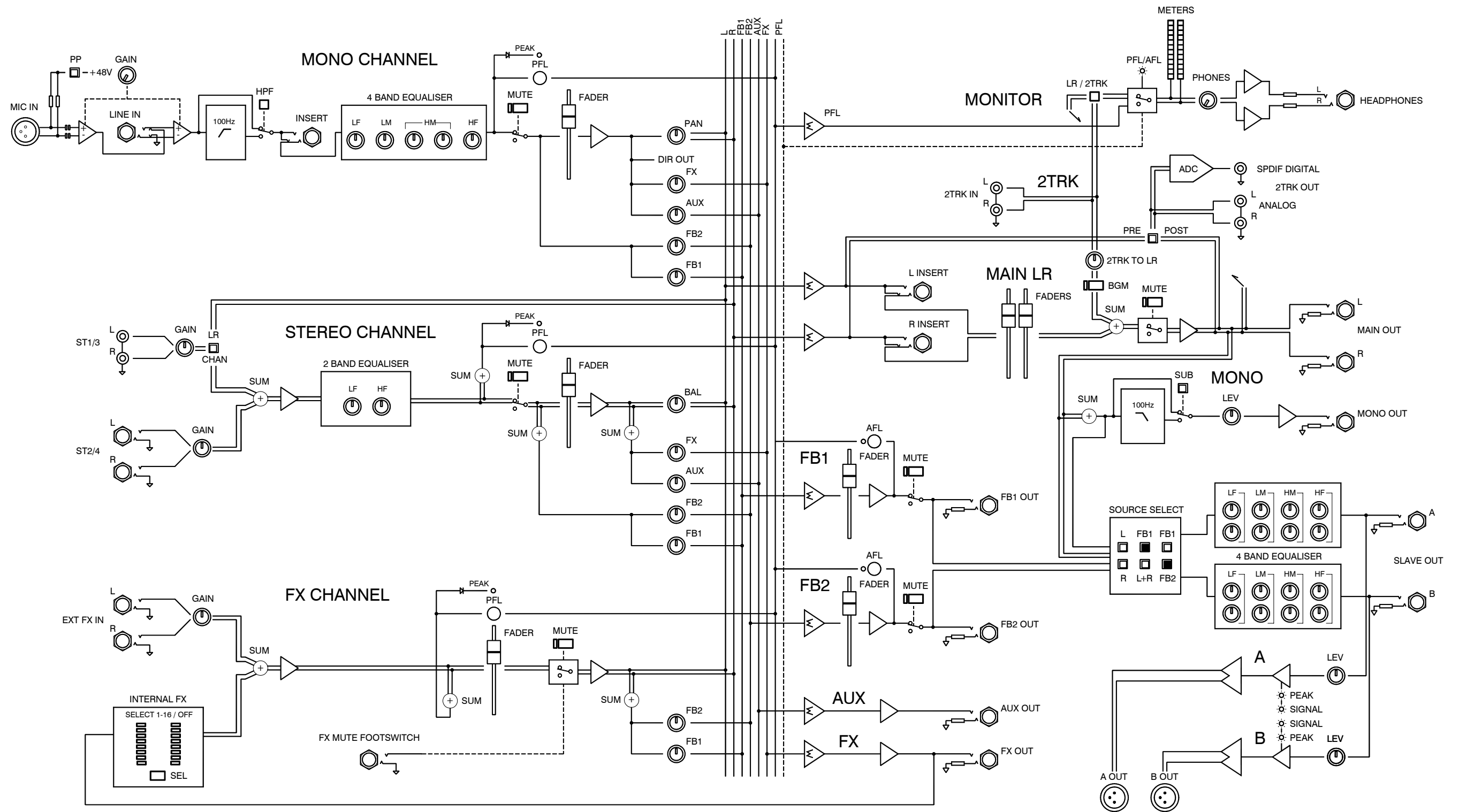
Product	PA12/100
.....	PA12/120
.....	PA12/220
.....	PA12/240
.....	PA20/100
.....	PA20/120
.....	PA20/220
.....	PA20/240
.....	PA28/100
.....	PA28/120
.....	PA28/220
.....	PA28/240
PA12-CP Rack Ear Assy.	003-071
PA12 Top Panel Assy.	003-095
PA12 Base Panel Assy.	003-096
PA12 Pack Assembly	003-097
PA12 Main Assembly	003-098
PA PSU Assy.	003-100
PA20 Pack Assembly	003-101
PA20 Main Assy.	003-102
PA20 Base Panel Assy.	003-103
PA20 Top Panel Assy.	003-104
PA28 Pack Assembly	003-105
PA28 Main Assembly	003-106
PA28 Base Panel Assy.	003-107
PA28 Top Panel Assy.	003-108

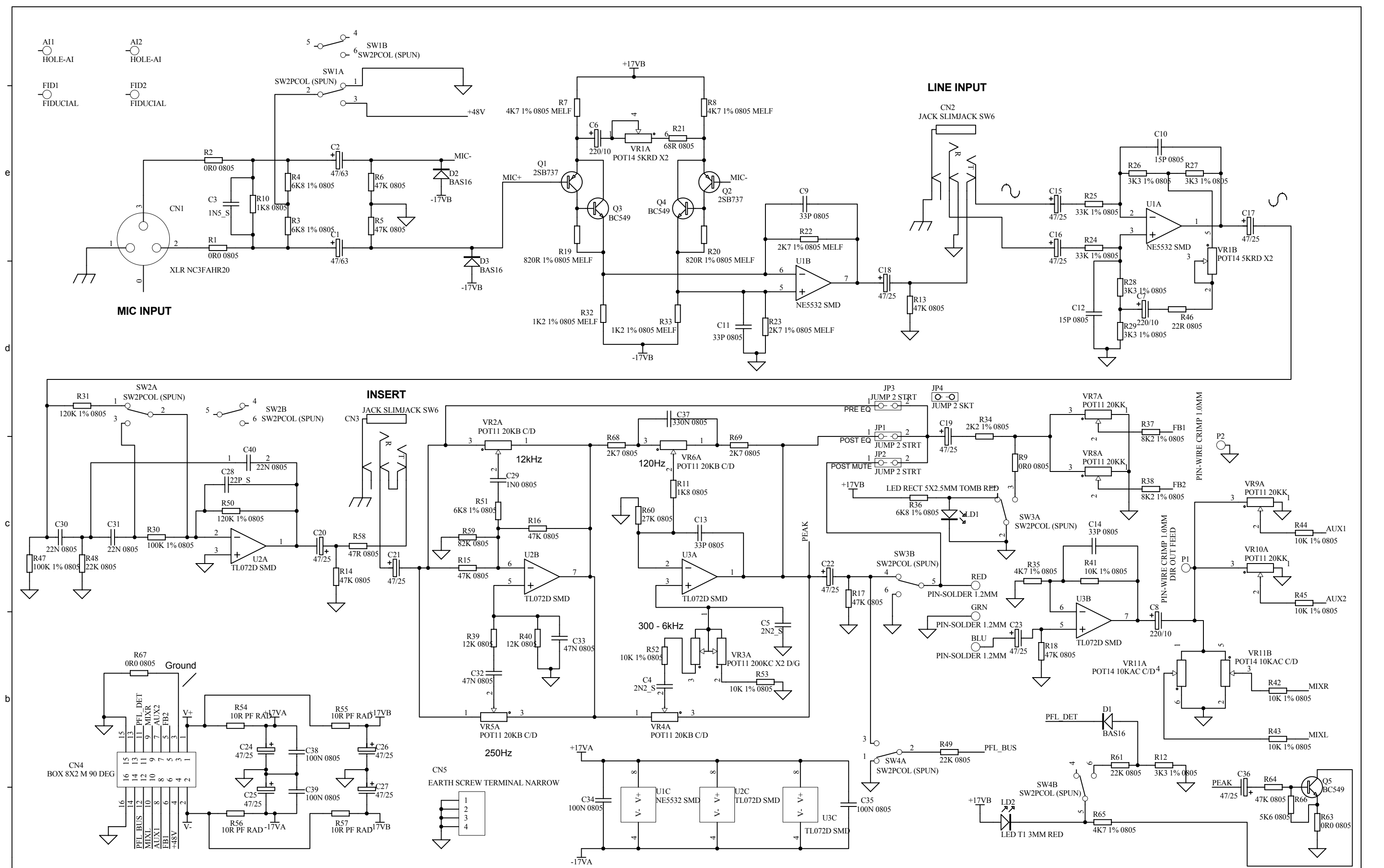
Stereo Input PCB	003-035
Aux FX PCB	003-036
Sub 1 PCB.....	003-037
FB1 Phones PCB	003-038
FB2 PCB	003-039
Effects PCB	003-042
FX LED PCB	003-070
Mono Input PCB	003-091
Master L/R PCB	003-092
Distribution PCB	003-093
SM PSU PCB	003-094

PA-CP SERIES BLOCK DIAGRAM



PA SERIES BLOCK DIAGRAM

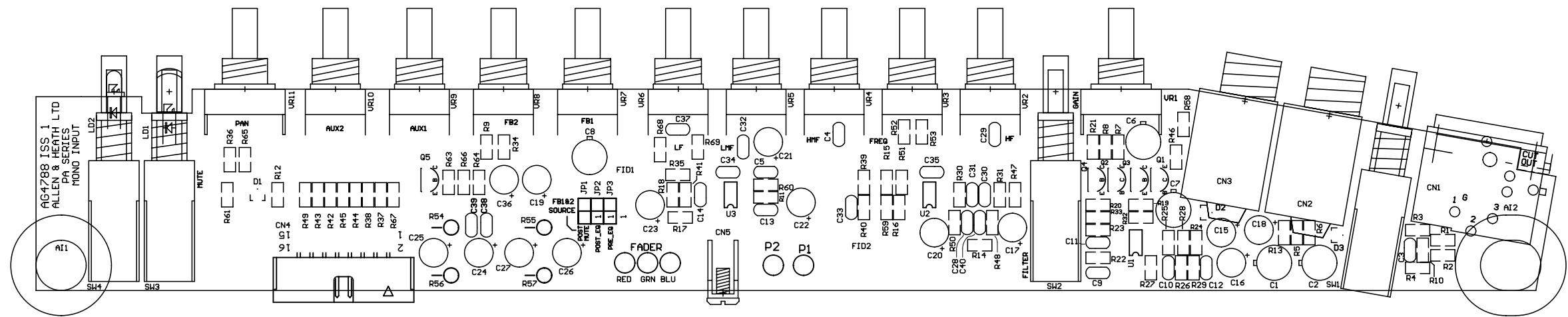




ALLEN&HEATH
 Kernick Industrial Estate,
 Penryn, Cornwall,
 England. TR10 9LU
 Tel: +44 (0)8707 556250
 Fax: +44 (0)8707 556251

ISSUE	BY	DATE	VR1C POT14 SKRD X2	VR2B POT11 20KB C/D	VR3B 200KC X2 D/G	VR4B POT11 20KB C/D	VR5B POT11 20KB C/D	VR6B POT11 20KB C/D	VR7B POT11 20K	VR8B POT11 20KK	VR9B POT11 20KK	VR10B POT11 20KK	VR11C POT14 10KAC C/D
A	MG	25-02-02											
B	MG	03-05-02											
C	MG	25-06-02											
1	MG	22-7-02											

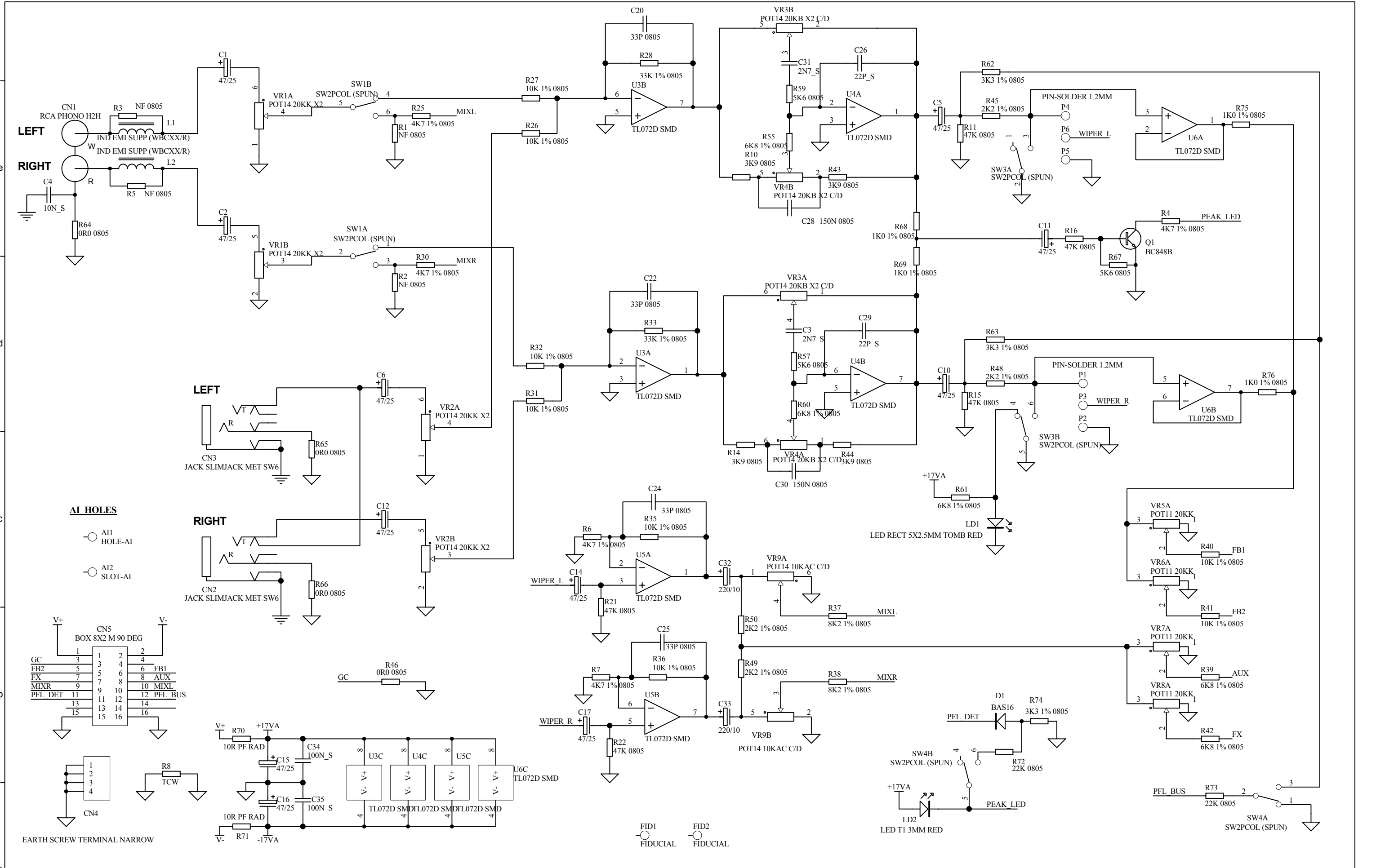
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 DRG No: **C4788** ISSUE: 1 SHEET: 1 OF 1



TOP OVERLAY

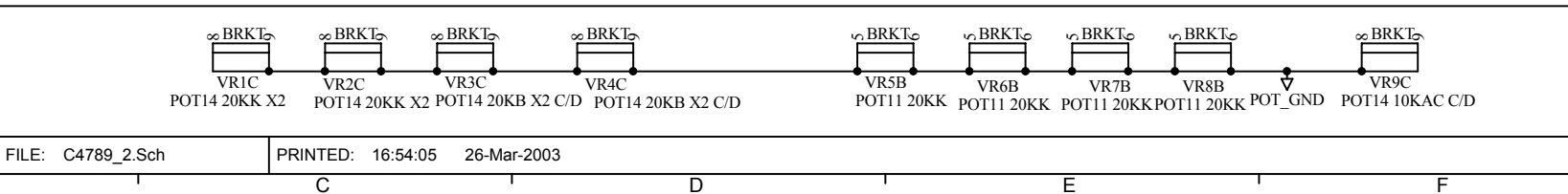
.GTO

Designator	Description	Designator	Description
C1	CAPACITOR ELECTROLYTIC 47uF 63V (AF0217)	R30	RESISTOR METAL FILM SMD0805 100K 1% (AC2843)
C2	CAPACITOR ELECTROLYTIC 47uF 63V (AF0217)	R31	RESISTOR SMD 120K 1% 0805 (AC5109)
C3	CAPACITOR CERAMIC SMD0805 1N5 (AF2991)	R32	RESISTOR SMD MELF 1K2 1% 0805 METAL (AC5039)
C4	CAPACITOR CERAMIC SMD0805 2N2 (AF3548)	R33	RESISTOR SMD MELF 1K2 1% 0805 METAL (AC5039)
C5	CAPACITOR CERAMIC SMD0805 2N2 (AF3548)	R34	RESISTOR METAL FILM SMD0805 2K2 1% (AC0370)
C6	CAPACITOR ELECTROLYTIC 220uF 10V (AF0225)	R35	RESISTOR METAL FILM SMD0805 4K7 1% (AC3062)
C7	CAPACITOR ELECTROLYTIC 220uF 10V (AF0225)	R36	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)
C8	CAPACITOR ELECTROLYTIC 220uF 10V (AF0225)	R37	RESISTOR METAL FILM SMD0805 8K2 1% (AC5017)
C9	CAPACITOR SMD0805 33P XXV (AF4887)	R38	RESISTOR METAL FILM SMD0805 8K2 1% (AC5017)
C10	CAPACITOR CERAMIC SMD0805 15P 50V (AF5034)	R39	RESISTOR CARBON SMD0805 12K 5% (AC4107)
C11	CAPACITOR SMD0805 33P XXV (AF4887)	R40	RESISTOR CARBON SMD0805 12K 5% (AC4107)
C12	CAPACITOR CERAMIC SMD0805 15P 50V (AF5034)	R41	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C13	CAPACITOR SMD0805 33P XXV (AF4887)	R42	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C14	CAPACITOR SMD0805 33P XXV (AF4887)	R43	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C15	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R44	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C16	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R45	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C17	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R46	RESISTOR SMD 22R 5% 0805 (AC4100)
C18	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R47	RESISTOR METAL FILM SMD0805 100K 1% (AC2843)
C19	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R48	RESISTOR CARBON SMD0805 22K 5% (AC3540)
C20	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R49	RESISTOR CARBON SMD0805 22K 5% (AC3540)
C21	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R50	RESISTOR SMD 120K 1% 0805 (AC5109)
C22	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R51	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)
C23	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R52	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C24	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R53	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C25	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R54	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC0378)
C26	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R55	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC0378)
C27	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R56	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC0378)
C28	CAPACITOR SMD 22P CERAMIC 0805 (AF2992)	R57	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC0378)
C29	CAPACITOR CERAMIC SMD0805 1N0 (AF5040)	R58	RESISTOR CARBON SMD0805 47R 5% (AC3036)
C30	CAPACITOR CERAMIC SMD0805 22N (AF5035)	R59	RESISTOR CARBON SMD0805 82K 5% (AC4894)
C31	CAPACITOR CERAMIC SMD0805 22N (AF5035)	R60	RESISTOR CARBON SMD0805 27K 5% (AC4693)
C32	CAPACITOR SMD0805 47N XXV CERAMIC (AF4889)	R61	RESISTOR CARBON SMD0805 22K 5% (AC3540)
C33	CAPACITOR SMD0805 47N XXV CERAMIC (AF4889)	R63	RESISTOR CARBON SMD0805 0R0 5% (AC2838)
C34	CAPACITOR CERAMIC SMD0805 100N (AF2851)	R64	RESISTOR CARBON SMD0805 47K 5% (AC3035)
C35	CAPACITOR CERAMIC SMD0805 100N (AF2851)	R65	RESISTOR METAL FILM SMD0805 4K7 1% (AC3062)
C36	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R66	RESISTOR CARBON SMD0805 5K6 5% (AC4106)
C37	CAPACITOR CERAMIC SMD0805 330N (AF5070)	R67	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C38	CAPACITOR CERAMIC SMD0805 100N (AF2851)	R68	RESISTOR CARBON SMD0805 2K7 5% (AC4698)
C39	CAPACITOR CERAMIC SMD0805 100N (AF2851)	R69	RESISTOR CARBON SMD0805 2K7 5% (AC4698)
C40	CAPACITOR CERAMIC SMD0805 22N (AF5035)	SW1	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
CN1	XLR 3 PIN FEMALE WITH GROUND (AL2412)	SW2	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
CN2	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)	SW3	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
CN3	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)	SW4	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
CN4	Connector IDC,Molex Type 0.1 Pitch 8x2 pins (AL4335)*	U1	IC SMD NE5532 OP AMP (AE4699)
CN5	EARTH SCREW TERMINAL NARROW HORIZONTAL TYPE (AA9000)	U2	IC SMD DUAL OP-AMP TL072 (AE3335)
D1	DIODE SIGNAL SMD BAS16 (AE3352)	U3	IC SMD DUAL OP-AMP TL072 (AE3335)
D2	DIODE SIGNAL SMD BAS16 (AE3352)	VR1	POT ALPS 14mm 5KRD x2 502RD (AI8174)
D3	DIODE SIGNAL SMD BAS16 (AE3352)	VR2	POT ALPS 11mm 20KB C/D 203B (AI8004)
JP1	JUMP 2 OPTION LINK (AL8068)	VR3	POT ALPS 11mm 200KC X2 DUAL GANG 204C (AI8005)
JP2	JUMP 2 OPTION LINK (AL8068)	VR4	POT ALPS 11mm 20KB C/D 203B (AI8004)
JP2	JUMPER SKT TWO WAY (AL0334)	VR5	POT ALPS 11mm 20KB C/D 203B (AI8004)
JP3	JUMP 2 OPTION LINK (AL8068)	VR6	POT ALPS 11mm 20KB C/D 203B (AI8004)
LD1	LED RED 5X2.5 TOMBSTONE (AE4863)	VR7	POT ALPS 11mm 20KK 203K (AI8003)
LD2	LED T1 3mm RED (AE0086)	VR8	POT ALPS 11mm 20KK 203K (AI8003)
Q1	TRANSISTOR PNP 2SB737 (AE8069)	VR9	POT ALPS 11mm 20KK 203K (AI8003)
Q2	TRANSISTOR PNP 2SB737 (AE8069)	VR10	POT ALPS 11mm 20KK 203K (AI8003)
Q3	TRANSISTOR NPN BC549 (AE0020)	VR11	POT ALPS 14mm 10KAC x2 C/D 103AC (AI8008)
Q4	TRANSISTOR NPN BC549 (AE0020)		
Q5	TRANSISTOR NPN BC549 (AE0020)		
R1	RESISTOR SMD 22R 5% 0805 (AC4100)		
R2	RESISTOR SMD 22R 5% 0805 (AC4100)		
R3	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)		
R4	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)		
R5	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R6	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R7	RESISTOR SMD MELF 4K7 1% 0805 (AC5038)		
R8	RESISTOR SMD MELF 4K7 1% 0805 (AC5038)		
R9	RESISTOR CARBON SMD0805 0R0 5% (AC2838)		
R10	RESISTOR CARBON SMD0805 1K8 5% (AC3029)		
R11	RESISTOR CARBON SMD0805 1K8 5% (AC3029)		
R12	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)		
R13	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R14	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R15	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R16	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R17	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R18	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R19	RESISTOR SMD MELF 820R 1% 0805 METAL (AC5037)		
R20	RESISTOR SMD MELF 820R 1% 0805 METAL (AC5037)		
R21	RESISTOR CARBON SMD0805 68R 5% (AC4101)		
R22	RESISTOR SMD MELF 2K7 1% 0805 (AC5108)		
R23	RESISTOR SMD MELF 2K7 1% 0805 (AC5108)		
R24	RESISTOR METAL FILM SMD0805 33K 1% (AC3532)		
R25	RESISTOR METAL FILM SMD0805 33K 1% (AC3532)		
R26	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)		
R27	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)		
R28	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)		
R29	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)		

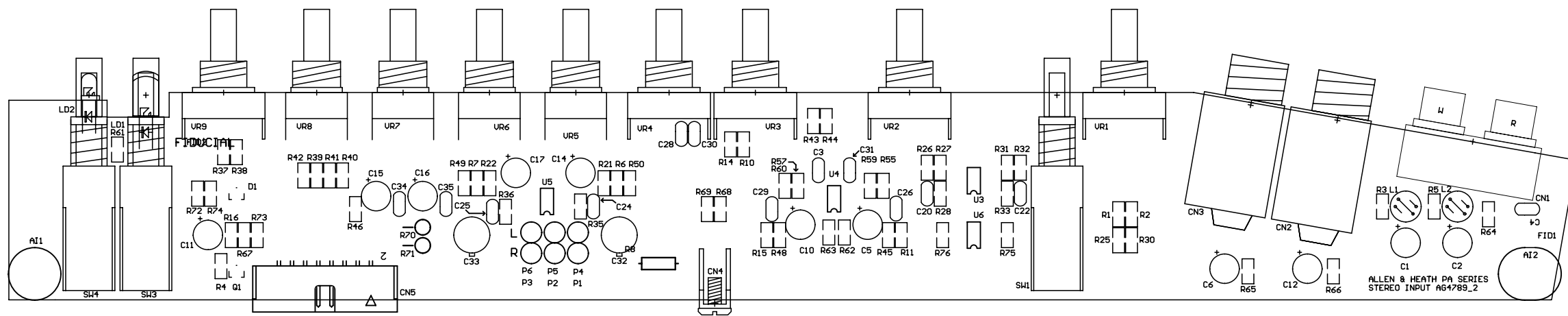


ALLEN & HEATH
 Kernick Industrial Estate,
 Penryn, Cornwall,
 England. TR10 9LU
 Tel: +44 (0)8707 556250
 Fax: +44 (0)8707 556251

ISSUE	BY	DATE
1	MG	23-07-02
2	AAT	25-09-02



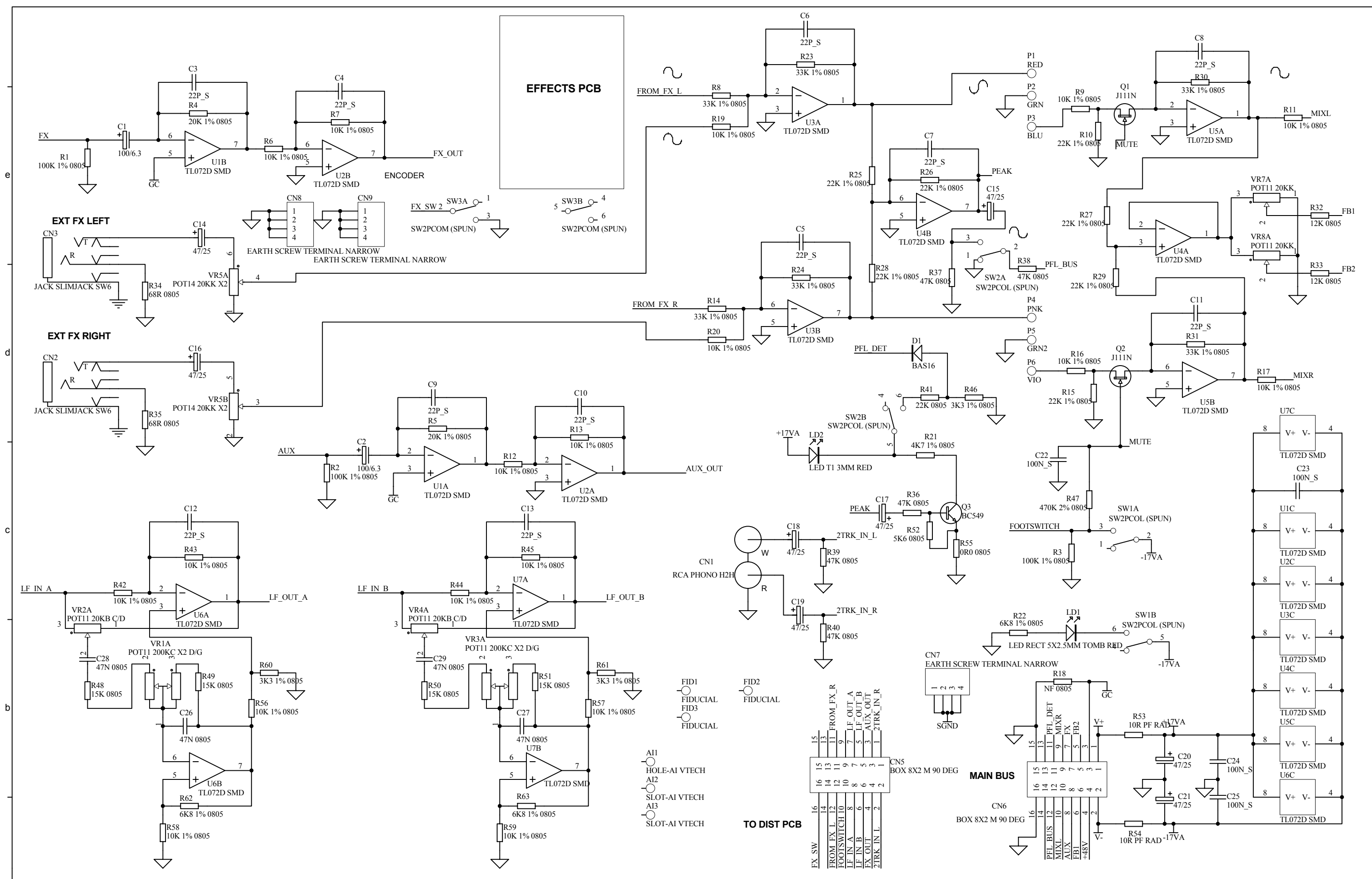
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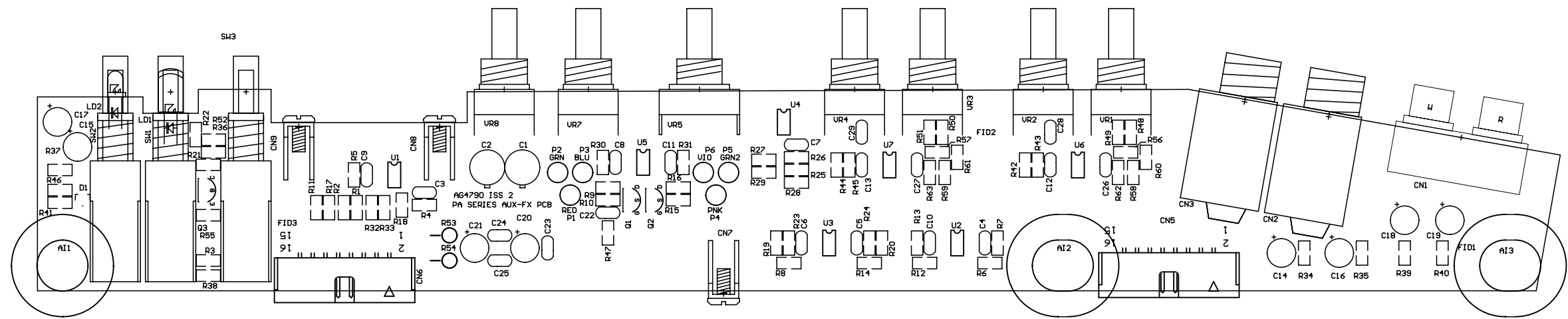
TOP OVERLAY

.GTO

Designator	Description	Designator	Description
C1	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R74	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)
C2	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R75	RESISTOR METAL FILM SMD0805 1K0 1% (AC0369)
C3	CAPACITOR CERAMIC SMD0805 2N7 (AF2993)	R76	RESISTOR METAL FILM SMD0805 1K0 1% (AC0369)
C4	CAPACITOR SMD 10N CERAMIC 0805 (AF2849)	SW1	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
C5	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	SW3	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
C6	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	SW4	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
C10	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	U3	IC SMD DUAL OP-AMP TL072 (AE3335)
C11	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	U4	IC SMD DUAL OP-AMP TL072 (AE3335)
C12	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	U5	IC SMD DUAL OP-AMP TL072 (AE3335)
C14	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	U6	IC SMD DUAL OP-AMP TL072 (AE3335)
C15	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	VR1	POT ALPS 14mm 20KK x2 203K (AI8007)
C16	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	VR2	POT ALPS 14mm 20KK x2 203K (AI8007)
C17	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	VR3	POT ALPS 14mm 20KB x2 C/D 203B (AI8006)
C20	CAP SM 33pF (AF4887)	VR4	POT ALPS 14mm 20KB x2 C/D 203B (AI8006)
C22	CAP SM 33pF (AF4887)	VR5	POT ALPS 11mm 20KK 203K (AI8003)
C24	CAP SM 33pF (AF4887)	VR6	POT ALPS 11mm 20KK 203K (AI8003)
C25	CAP SM 33pF (AF4887)	VR7	POT ALPS 11mm 20KK 203K (AI8003)
C26	CAPACITOR CERAMIC SMD0805 22P (AF2992)	VR8	POT ALPS 11mm 20KK 203K (AI8003)
C28	CAPACITOR CERAMIC SMD 150nF 25V (AF4888)	VR9	POT ALPS 14mm 10KAC x2 C/D 103AC (AI8008)
C29	CAPACITOR CERAMIC SMD0805 22P (AF2992)		
C30	CAPACITOR CERAMIC SMD 150nF 25V (AF4888)		
C31	CAPACITOR CERAMIC SMD0805 2N7 (AF2993)		
C32	CAPACITOR ELECTROLYTIC 220uF 10V (AF0225)		
C33	CAPACITOR ELECTROLYTIC 220uF 10V (AF0225)		
C34	CAPACITOR CERAMIC SMD0805 100N (AF2851)		
C35	CAPACITOR CERAMIC SMD0805 100N (AF2851)		
CN1	RCA PHONO DUAL HORIZONTAL R/W (AL0577)		
CN2	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)		
CN3	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)		
CN4	EARTH SCREW TERMINAL NARROW HORIZONTAL TYPE (AA9000)		
CN5	Connector IDC,Molex Type 0.1 Pitch 8x2 pins (AL4335)		
D1	DIODE SIGNAL SMD BAS16 (AE3352)		
LD1	LED RECT 5x2.5MM TOMBSTONE RED (AE4863)		
LD2	LED T1 3mm RED (AE0086)		
Q1	TRANSISTOR NPN BC848B (AE3332)		
R3	RESISTOR CARBON SMD0805 0R0 5% (AC2838)		
R4	RESISTOR METAL FILM SMD0805 4K7 1% (AC3062)		
R5	RESISTOR CARBON SMD0805 0R0 5% (AC2838)		
R6	RESISTOR METAL FILM SMD0805 4K7 1% (AC3062)		
R7	RESISTOR METAL FILM SMD0805 4K7 1% (AC3062)		
R8	TC LINK 22SWG (AH0070)		
R10	RESISTOR CARBON SMD0805 3K9 5% (AC4105)		
R11	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R14	RESISTOR CARBON SMD0805 3K9 5% (AC4105)		
R15	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R16	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R21	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R22	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R25	RESISTOR METAL FILM SMD0805 4K7 1% (AC3062)		
R26	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R27	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R28	RESISTOR METAL FILM SMD0805 33K 1% (AC3532)		
R30	RESISTOR METAL FILM SMD0805 4K7 1% (AC3062)		
R31	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R32	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R33	RESISTOR METAL FILM SMD0805 33K 1% (AC3532)		
R35	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R36	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R37	RESISTOR METAL FILM SMD0805 8K2 1% (AC5017)		
R38	RESISTOR METAL FILM SMD0805 8K2 1% (AC5017)		
R39	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)		
R40	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R41	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R42	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)		
R43	RESISTOR CARBON SMD0805 3K9 5% (AC4105)		
R44	RESISTOR CARBON SMD0805 3K9 5% (AC4105)		
R45	RESISTOR METAL FILM SMD0805 2K2 1% (AC0370)		
R46	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R48	RESISTOR METAL FILM SMD0805 2K2 1% (AC0370)		
R49	RESISTOR METAL FILM SMD0805 2K2 1% (AC0370)		
R50	RESISTOR METAL FILM SMD0805 2K2 1% (AC0370)		
R55	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)		
R57	RESISTOR CARBON SMD0805 5K6 5% (AC4106)		
R59	RESISTOR CARBON SMD0805 5K6 5% (AC4106)		
R60	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)		
R61	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)		
R62	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)		
R63	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)		
R64	RESISTOR CARBON SMD0805 0R0 5% (AC2838)		
R65	RESISTOR CARBON SMD0805 0R0 5% (AC2838)		
R66	RESISTOR CARBON SMD0805 0R0 5% (AC2838)		
R67	RESISTOR CARBON SMD0805 5K6 5% (AC4106)		
R68	RESISTOR METAL FILM SMD0805 1K0 1% (AC0369)		
R69	RESISTOR METAL FILM SMD0805 1K0 1% (AC0369)		
R70	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC5077)		
R71	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC5077)		
R72	RESISTOR CARBON SMD0805 22K 5% (AC3540)		
R73	RESISTOR CARBON SMD0805 22K 5% (AC3540)		

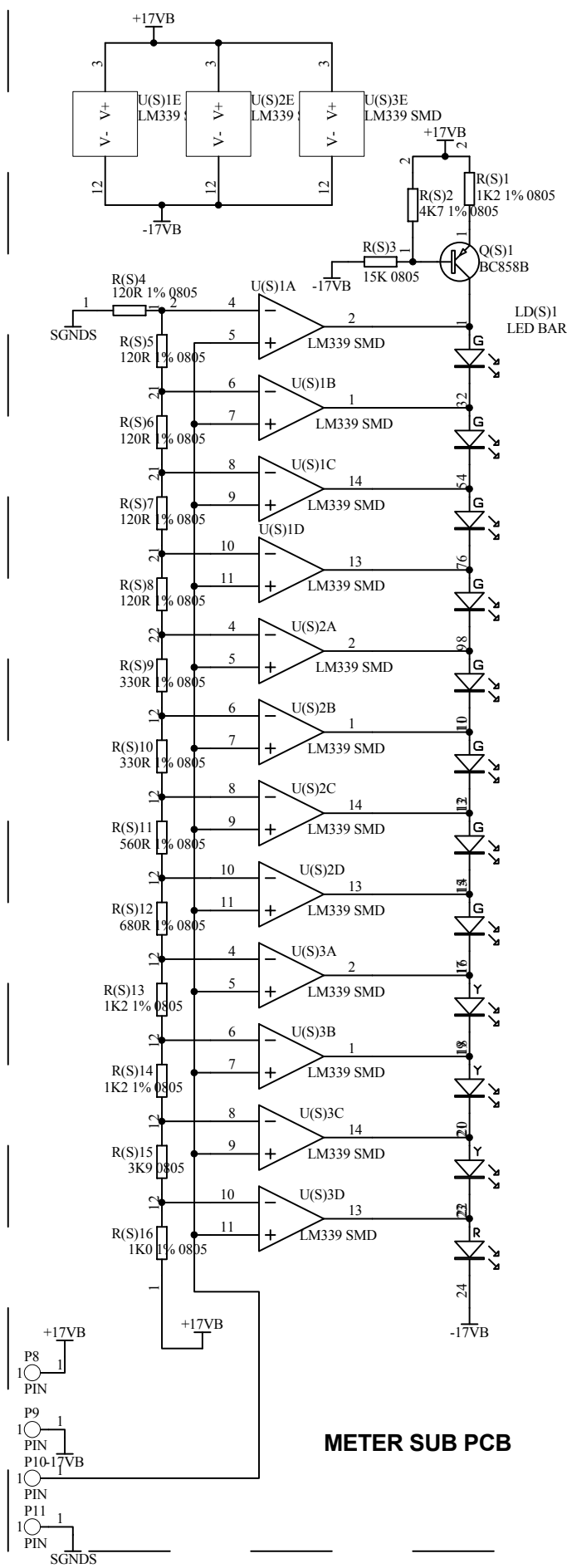


ALLEN&HEATH Kernick Industrial Estate, Penryn, Cornwall, England. TR10 9LU Tel: +44 (0)8707 556250 Fax: +44 (0)8707 556251	ISSUE	BY	DATE	VR1B POT11 200KC X2 D/G BRKT	VR2B POT11 20KB C/D BRKT	VR3B POT11 200KC X2 D/G BRKT	VR4B POT11 20KB C/D BRKT	VR5C POT14 20KK X2 BRKT	TITLE: PA SERIES AUX-FX PCB PAGE: DRG No: C4790 ISSUE: 2.1 SHEET: 1 OF 1
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	B	AAT	30-04-02						
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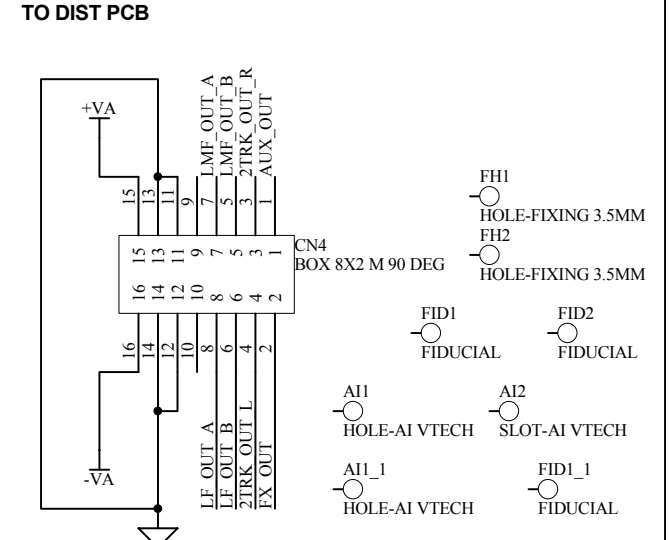
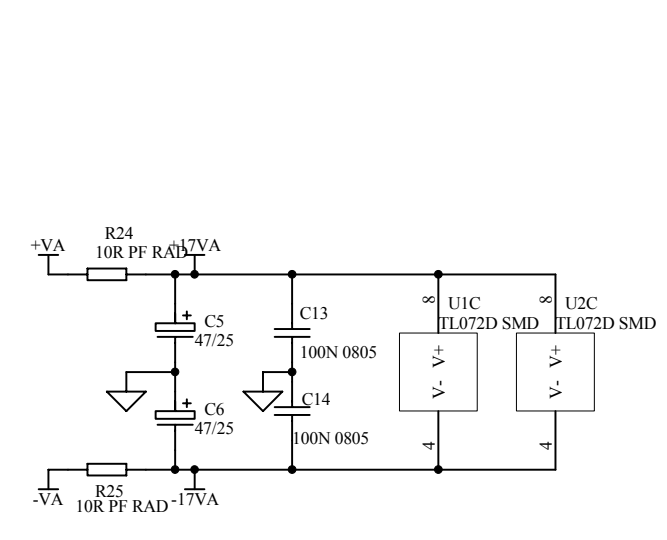
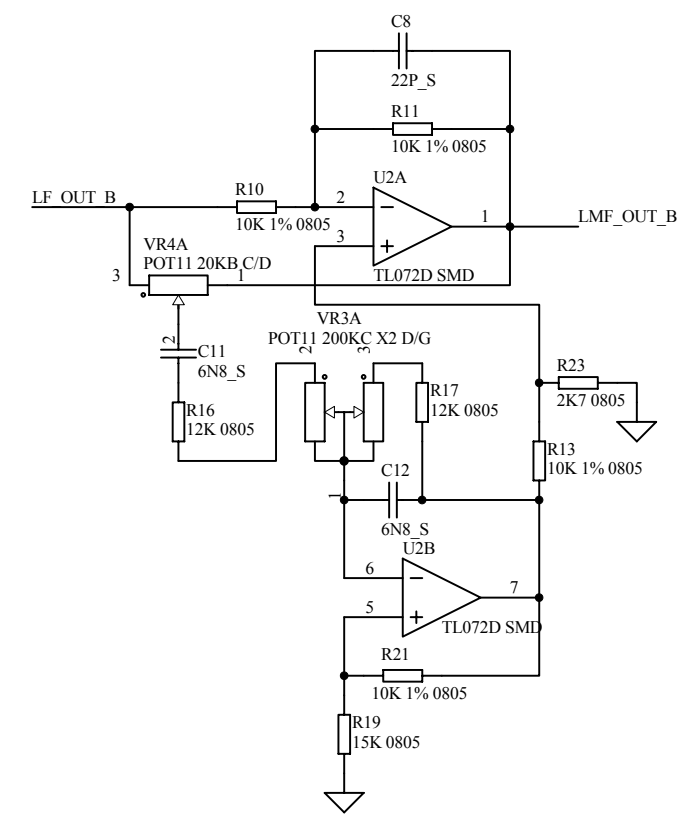
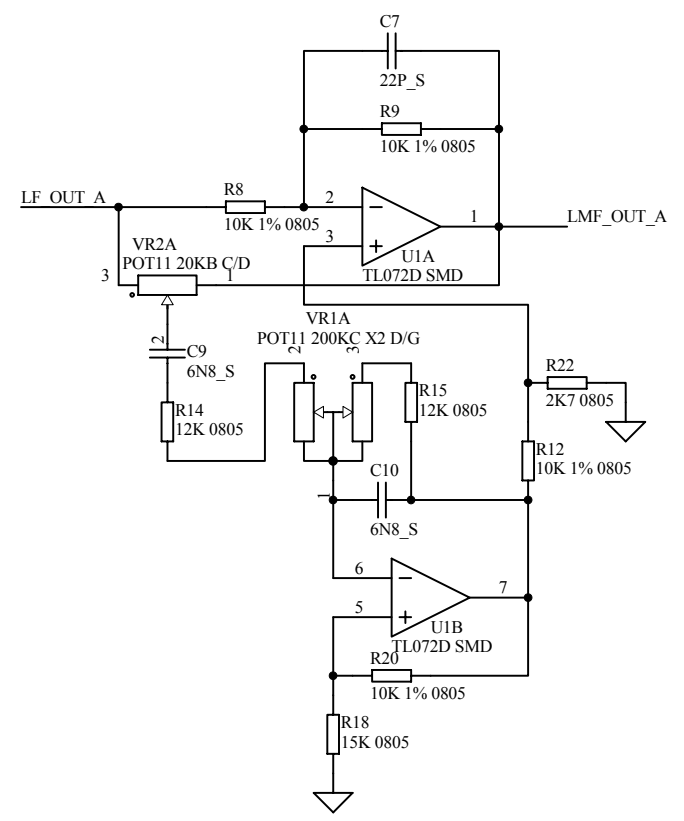
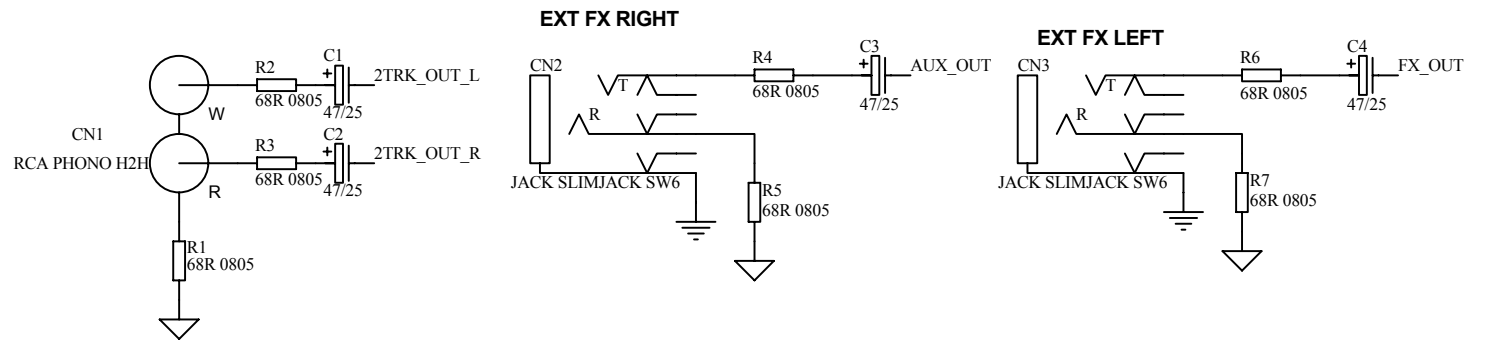


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Designator	Description	Designator	Description
C1	CAPACITOR ELECTROLYTIC 100uF 6.3V (AF2984)	R47	RESISTOR METAL FILM SMD0805 470K 2% (AC2844)
C2	CAPACITOR ELECTROLYTIC 100uF 6.3V (AF2984)	R48	RESISTOR CARBON SMD0805 15K 5% (AC3486)
C3	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R49	RESISTOR CARBON SMD0805 15K 5% (AC3486)
C4	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R50	RESISTOR CARBON SMD0805 15K 5% (AC3486)
C5	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R51	RESISTOR CARBON SMD0805 15K 5% (AC3486)
C6	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R52	RESISTOR CARBON SMD0805 5K6 5% (AC4106)
C7	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R53	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC5077)
C8	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R54	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC5077)
C9	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R55	RESISTOR CARBON SMD0805 0R0 5% (AC2838)
C10	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R56	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C11	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R57	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C12	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R58	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C13	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R59	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C14	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R60	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)
C15	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R61	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)
C16	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R62	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)
C17	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R63	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)
C18	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	SW1	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
C19	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	SW2	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
C20	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	SW3	SWITCH 2 POLE MOMENTARY (AL0374)
C21	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	U1	IC SMD DUAL OP-AMP TL072 (AE3335)
C22	CAPACITOR CERAMIC SMD0805 100N (AF2851)	U2	IC SMD DUAL OP-AMP TL072 (AE3335)
C23	CAPACITOR CERAMIC SMD0805 100N (AF2851)	U3	IC SMD DUAL OP-AMP TL072 (AE3335)
C24	CAPACITOR CERAMIC SMD0805 100N (AF2851)	U4	IC SMD DUAL OP-AMP TL072 (AE3335)
C25	CAPACITOR CERAMIC SMD0805 100N (AF2851)	U5	IC SMD DUAL OP-AMP TL072 (AE3335)
C26	CAPACITOR CERAMIC SMD0805 47N (AF4889)	U6	IC SMD DUAL OP-AMP TL072 (AE3335)
C27	CAPACITOR CERAMIC SMD0805 47N (AF4889)	U7	IC SMD DUAL OP-AMP TL072 (AE3335)
C28	CAPACITOR CERAMIC SMD0805 47N (AF4889)	VR1	POT ALPS 11mm 200K X2 DUAL GANG 204C (AI8005)
C29	CAPACITOR CERAMIC SMD0805 47N (AF4889)	VR2	POT ALPS 11mm 20KB C/D 203B (AI8004)
CN1	RCA PHONO DUAL HORIZONTAL R/W (AL0577)	VR3	POT ALPS 11mm 200K X2 DUAL GANG 204C (AI8005)
CN2	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)	VR4	POT ALPS 11mm 20KB C/D 203B (AI8004)
CN3	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)	VR5	POT ALPS 14mm 20KK x2 203K (AI8007)
CN5	Connector IDC,Molex Type 0.1 Pitch 8x2 pins (AL4335)	VR7	POT ALPS 11mm 20KK 203K (AI8003)
CN6	Connector IDC,Molex Type 0.1 Pitch 8x2 pins (AL4335)	VR8	POT ALPS 11mm 20KK 203K (AI8003)
CN7	EARTH SCREW TERMINAL NARROW HORIZONTAL TYPE (AA9000)		
CN8	EARTH SCREW TERMINAL NARROW HORIZONTAL TYPE (AA9000)		
CN9	EARTH SCREW TERMINAL NARROW HORIZONTAL TYPE (AA9000)		
D1	DIODE SIGNAL SMD BAS16 (AE3352)		
LD1	LED RECT 5x2.5MM TOMBSTONE RED (AE4863)		
LD2	LED T1 3mm RED (AE0086)		
Q1	TRANSISTOR JFET N CHANNEL J111N (AE0083)		
Q2	TRANSISTOR JFET N CHANNEL J111N (AE0083)		
Q3	TRANSISTOR NPN BC549 (AE0020)		
R1	RESISTOR METAL FILM SMD0805 100K 1% (AC2843)		
R2	RESISTOR METAL FILM SMD0805 100K 1% (AC2843)		
R3	RESISTOR METAL FILM SMD0805 100K 1% (AC2843)		
R4	RESISTOR METAL FILM SMD0805 20K 1% (AC5057)		
R5	RESISTOR SMD 20K 1% 0805 (AC5057)		
R6	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R7	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R8	RESISTOR METAL FILM SMD0805 33K 1% (AC3532)		
R9	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R10	RESISTOR METAL FILM SMD0805 22K 1% (AC2842)		
R11	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R12	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R13	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R14	RESISTOR METAL FILM SMD0805 33K 1% (AC3532)		
R15	RESISTOR METAL FILM SMD0805 22K 1% (AC2842)		
R16	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R17	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R19	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R20	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R21	RESISTOR METAL FILM SMD0805 4K7 1% (AC3062)		
R22	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)		
R23	RESISTOR METAL FILM SMD0805 33K 1% (AC3532)		
R24	RESISTOR METAL FILM SMD0805 33K 1% (AC3532)		
R25	RESISTOR METAL FILM SMD0805 22K 1% (AC2842)		
R26	RESISTOR METAL FILM SMD0805 22K 1% (AC2842)		
R27	RESISTOR METAL FILM SMD0805 22K 1% (AC2842)		
R28	RESISTOR METAL FILM SMD0805 22K 1% (AC2842)		
R29	RESISTOR METAL FILM SMD0805 22K 1% (AC2842)		
R30	RESISTOR METAL FILM SMD0805 33K 1% (AC3532)		
R31	RESISTOR METAL FILM SMD0805 33K 1% (AC3532)		
R32	RESISTOR CARBON SMD0805 12K 5% (AC4107)		
R33	RESISTOR CARBON SMD0805 12K 5% (AC4107)		
R34	RESISTOR CARBON SMD0805 68R 5% (AC4101)		
R35	RESISTOR CARBON SMD0805 68R 5% (AC4101)		
R36	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R37	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R38	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R39	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R40	RESISTOR CARBON SMD0805 47K 5% (AC3035)		
R41	RESISTOR CARBON SMD0805 22K 5% (AC3540)		
R42	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R43	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R44	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R45	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		
R46	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)		



METER SUB PCB

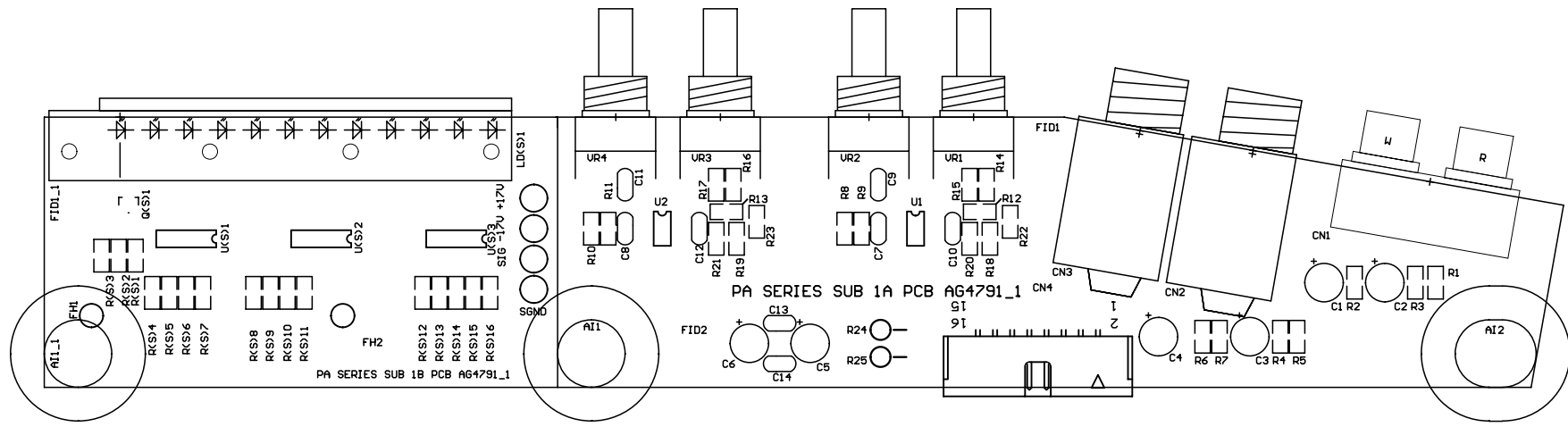


ALLEN&HEATH
 Kernick Industrial Estate,
 Penryn, Cornwall,
 England. TR10 9LU
 Tel: +44 (0)8707 556250
 Fax: +44 (0)8707 556251

ISSUE	BY	DATE	VR1B	VR2B	VR3B	VR4B
A	MG	25-02-02	POT11 200KC X2 D/G	POT11 20KB C/D	POT11 200KC X2 D/G	POT11 20KB C/D
B	AAT	22-04-02	BRKT	BRKT	BRKT	BRKT
1	AAT	27-06-02				

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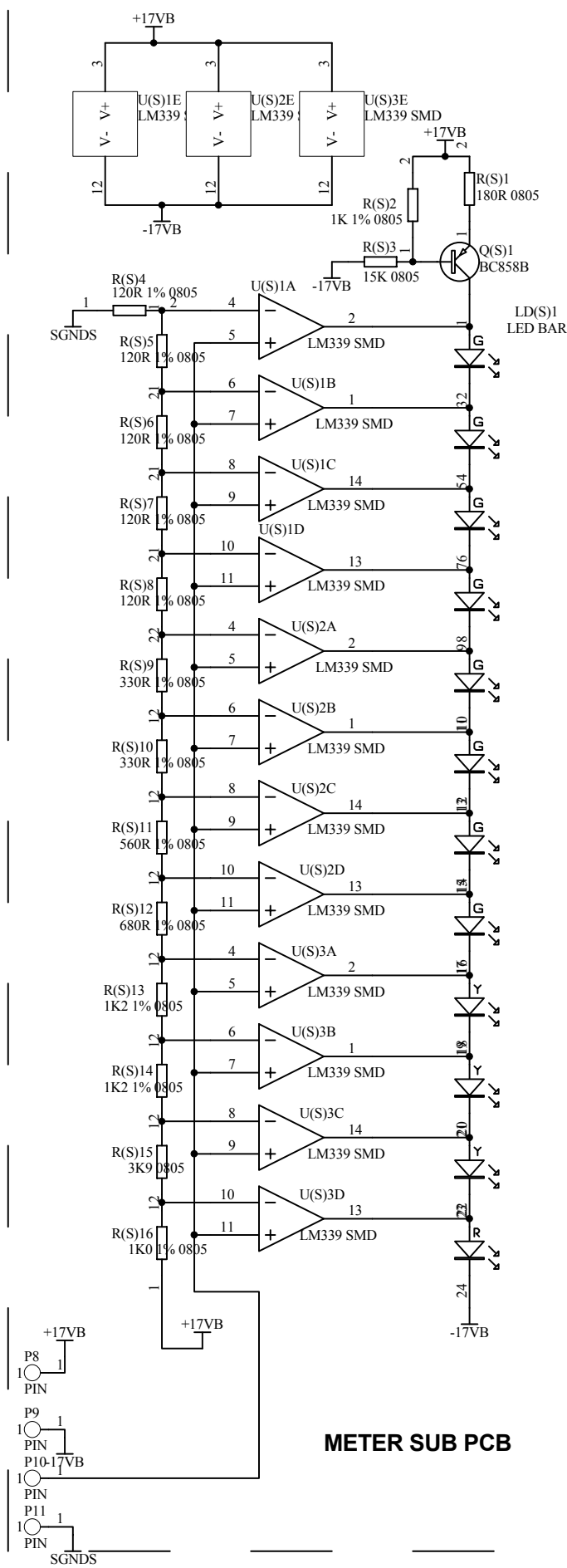
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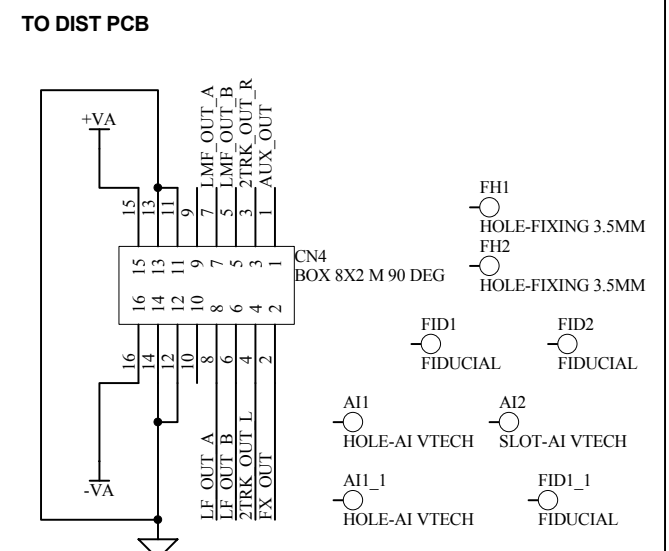
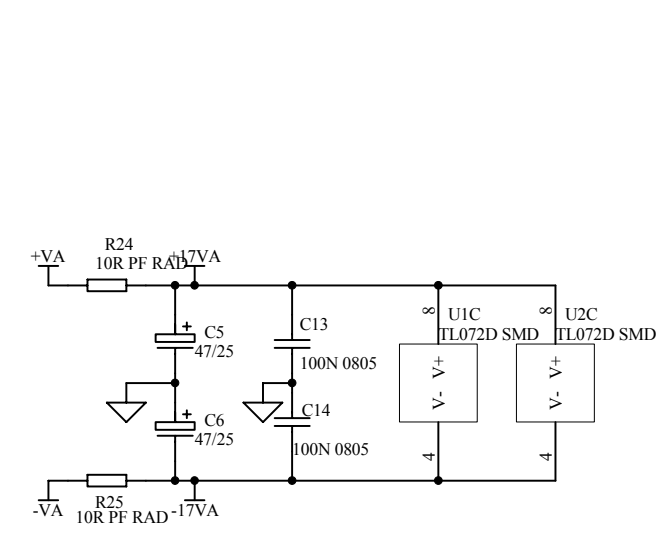
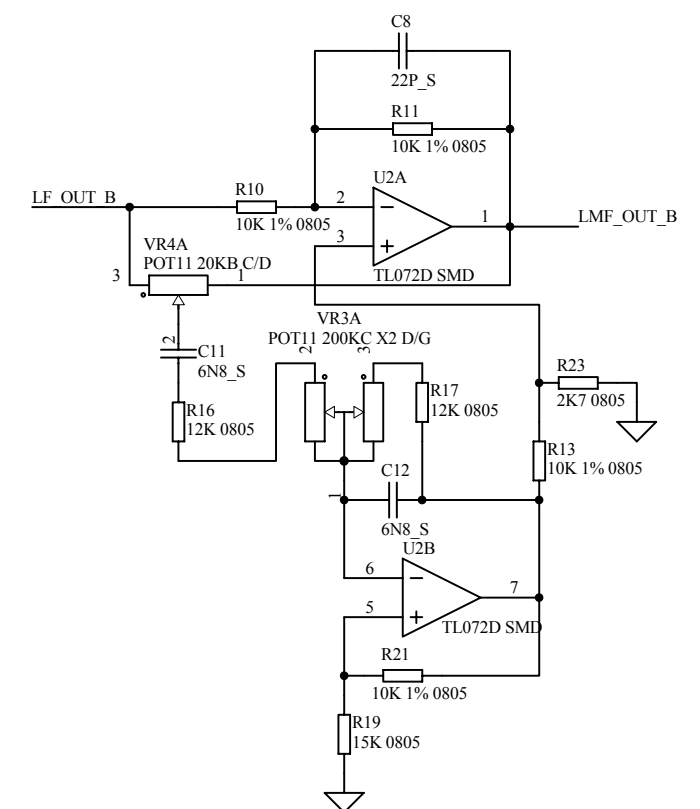
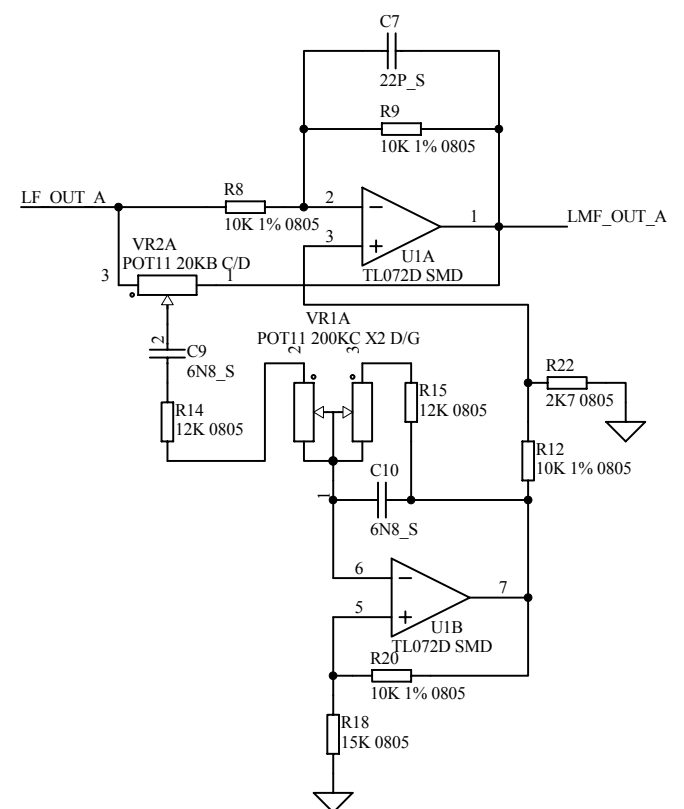
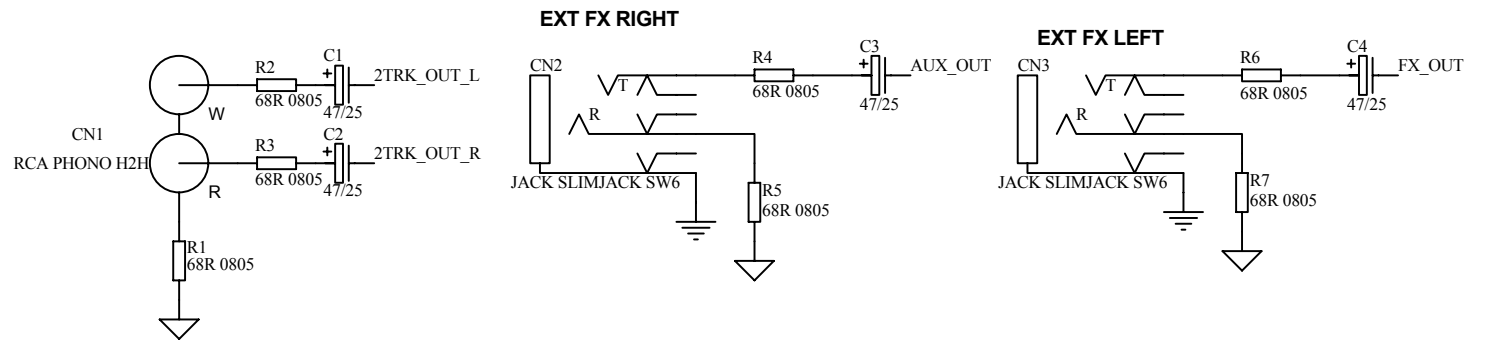
TOP OVERLAY

.GTO

Designator	Description
C1	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)
C2	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)
C3	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)
C4	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)
C5	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)
C6	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)
C7	CAPACITOR CERAMIC SMD0805 22P (AF2992)
C8	CAPACITOR CERAMIC SMD0805 22P (AF2992)
C9	CAPACITOR SMD 6N8 CERAMIC 0805 (AF2994)
C10	CAPACITOR SMD 6N8 CERAMIC 0805 (AF2994)
C11	CAPACITOR SMD 6N8 CERAMIC 0805 (AF2994)
C12	CAPACITOR SMD 6N8 CERAMIC 0805 (AF2994)
C13	CAPACITOR CERAMIC SMD0805 100N (AF2851)
C14	CAPACITOR CERAMIC SMD0805 100N (AF2851)
CN1	RCA PHONO DUAL HORIZONTAL R/W (AL0577)
CN2	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)
CN3	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)
CN4	Connector IDC,Molex Type 0.1 Pitch 8x2 pins (AL4335)
LD(S)1	LED BAR MB12 SQUARE LEDS IN HOUSING 8G,3Y,1R (AE2701)
Q(S)1	TRANSISTOR PNP BC858B (AE3042)
R1	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R2	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R3	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R4	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R5	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R6	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R7	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R8	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R9	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R10	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R11	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R12	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R13	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R14	RESISTOR CARBON SMD0805 12K 5% (AC4107)
R15	RESISTOR CARBON SMD0805 12K 5% (AC4107)
R16	RESISTOR CARBON SMD0805 12K 5% (AC4107)
R17	RESISTOR CARBON SMD0805 12K 5% (AC4107)
R18	RESISTOR CARBON SMD0805 15K 5% (AC3486)
R19	RESISTOR CARBON SMD0805 15K 5% (AC3486)
R20	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R21	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R22	RESISTOR CARBON SMD0805 2K7 5% (AC4698)
R23	RESISTOR CARBON SMD0805 2K7 5% (AC4698)
R24	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC5077)
R25	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC5077)
R(S)1	RESISTOR METAL FILM SMD0805 1K2 1% (AC3059)
R(S)2	RESISTOR METAL FILM SMD0805 4K7 1% (AC3062)
R(S)3	RESISTOR CARBON SMD0805 15K 5% (AC3486)
R(S)4	RESISTOR METAL FILM SMD0805 120R 1% (AC3055)
R(S)5	RESISTOR METAL FILM SMD0805 120R 1% (AC3055)
R(S)6	RESISTOR METAL FILM SMD0805 120R 1% (AC3055)
R(S)7	RESISTOR METAL FILM SMD0805 120R 1% (AC3055)
R(S)8	RESISTOR METAL FILM SMD0805 120R 1% (AC3055)
R(S)9	RESISTOR METAL FILM SMD0805 330R 1% (AC3056)
R(S)10	RESISTOR METAL FILM SMD0805 330R 1% (AC3056)
R(S)11	RESISTOR METAL FILM SMD0805 560R 1% (AC3057)
R(S)12	RESISTOR METAL FILM SMD0805 680R 1% (AC3058)
R(S)13	RESISTOR METAL FILM SMD0805 1K2 1% (AC3059)
R(S)14	RESISTOR METAL FILM SMD0805 1K2 1% (AC3059)
R(S)15	RESISTOR CARBON SMD0805 3K9 5% (AC4105)
R(S)16	RESISTOR METAL FILM SMD0805 1K0 1% (AC0369)
U1	IC SMD DUAL OP-AMP TL072 (AE3335)
U2	IC SMD DUAL OP-AMP TL072 (AE3335)
U(S)1	IC LM339 COMPARATOR SMD (AE4890)
U(S)2	IC LM339 COMPARATOR SMD (AE4890)
U(S)3	IC LM339 COMPARATOR SMD (AE4890)
VR1	POT ALPS 11mm 200KC X2 DUAL GANG 204C (AI8005)
VR2	POT ALPS 11mm 20KB C/D 203B (AI8004)
VR3	POT ALPS 11mm 200KC X2 DUAL GANG 204C (AI8005)
VR4	POT ALPS 11mm 20KB C/D 203B (AI8004)



METER SUB PCB

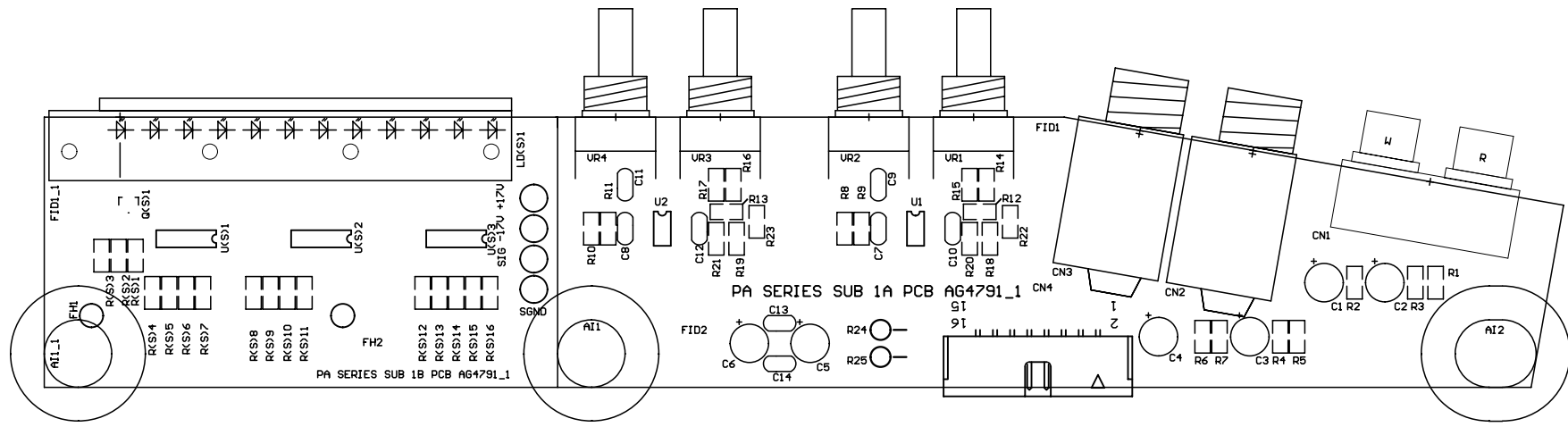


ALLEN & HEATH
 Kernick Industrial Estate,
 Penryn, Cornwall,
 England. TR10 9LU
 Tel: +44 (0)8707 556250
 Fax: +44 (0)8707 556251

ISSUE	BY	DATE	VR1B	VR2B	VR3B	VR4B
A	MG	25-02-02	POT11 200KC X2 D/G	POT11 200KC X2 D/G	POT11 200KC X2 D/G	POT11 20KB C/D
B	AAT	22-04-02	BRKT	BRKT	BRKT	BRKT
1	AAT	27-06-02				
1.1	MG	07-07-03				

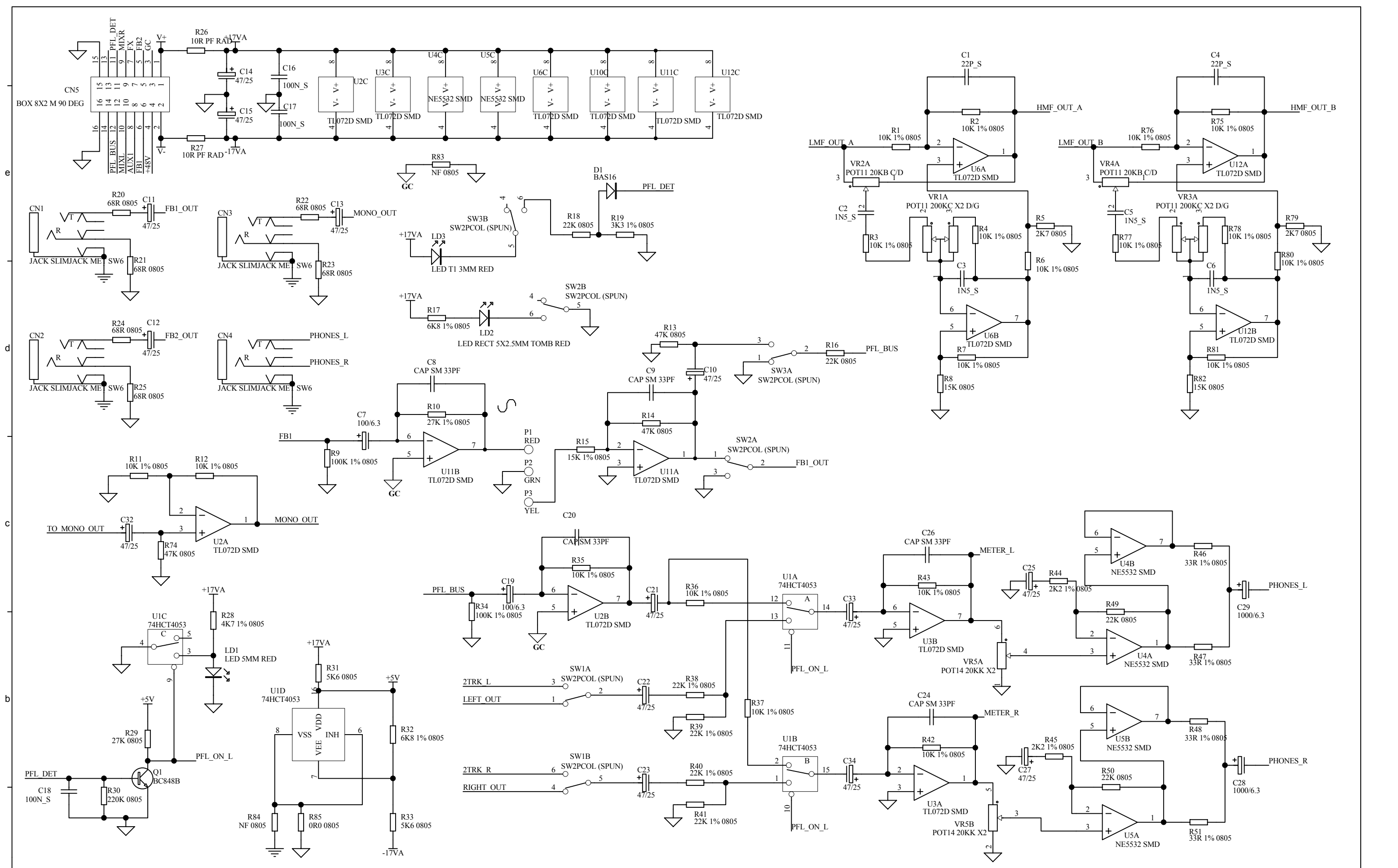
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TITLE: PA SERIES SUB 1 PCB
 PAGE:
 DRG No: C4791 ISSUE: 1.1 SHEET: 1 OF 1



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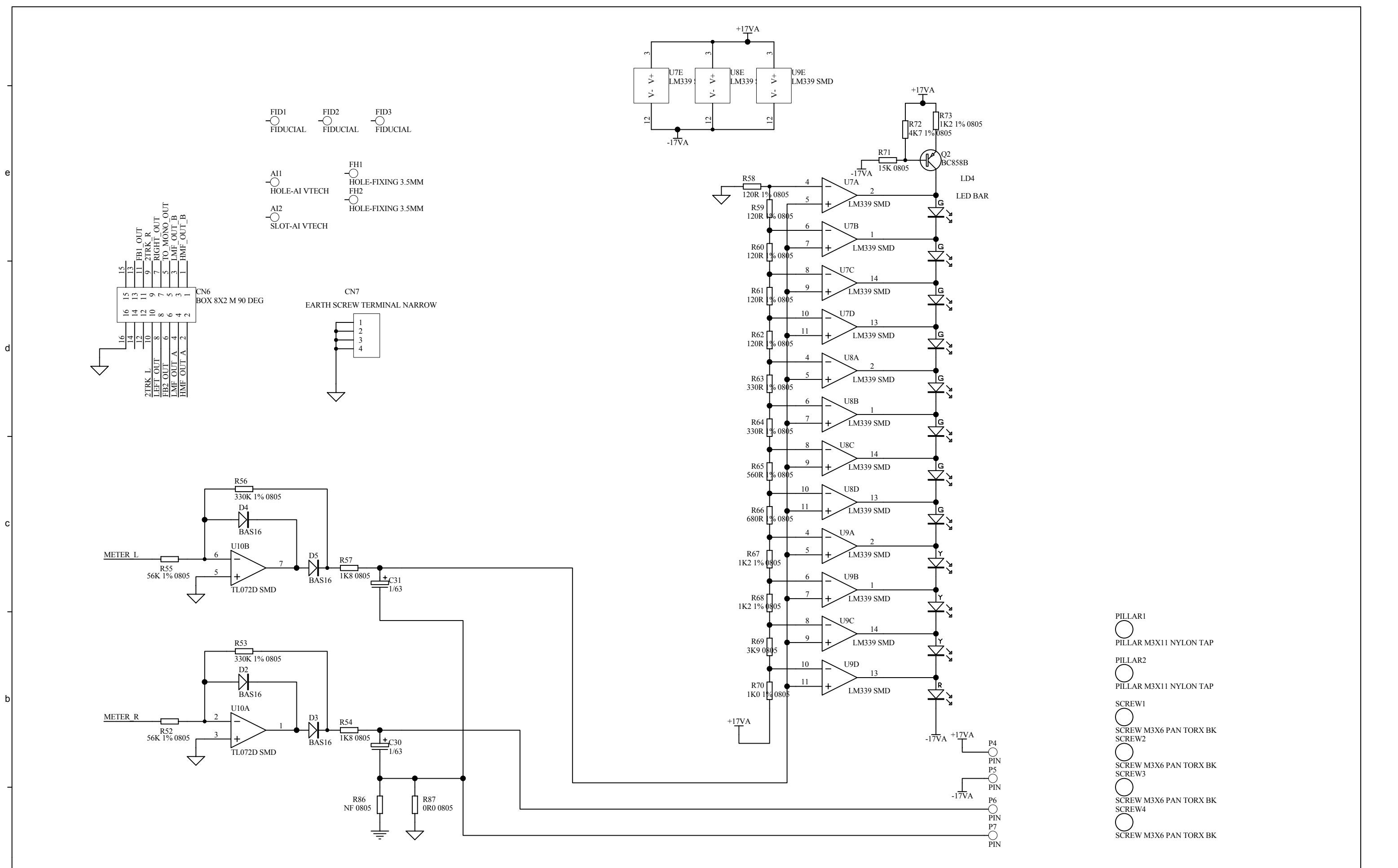


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 Kernick Industrial Estate,
 Penryn, Cornwall,
 England. TR10 9LU
 Tel: +44 (0)8707 556250
 Fax: +44 (0)8707 556251

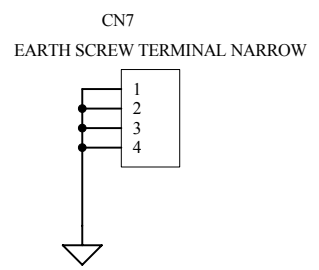
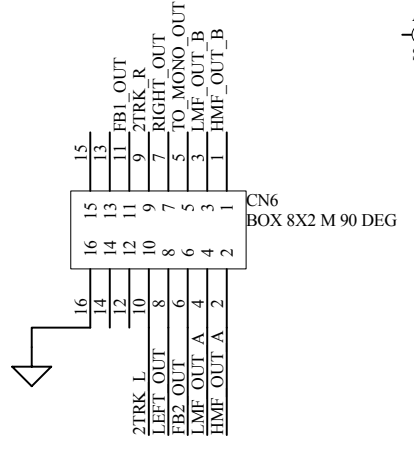
ISSUE	BY	DATE	VR1B	VR2B	VR3B	VR4B	VR5C
ORIGIN			POT11 200KC X2 D/G	POT11 20KB C/D	POT11 200KC X2 D/G	POT11 20KB C/D	POT14 20KK X2
A	JB	7/3/02					
B	JB	29/4/02					
C	AAT	01-05-02					
1	AAT	24-07-02					
2	MG	21-10-02					

FILE: C4792_2P2.Sch PRINTED: 09:59:09 27-Mar-2003

TITLE: PA Series Foldback/Phones pcb
 PAGE:
 DRG No: C4792 ISSUE: 2 SHEET: 1 OF 2

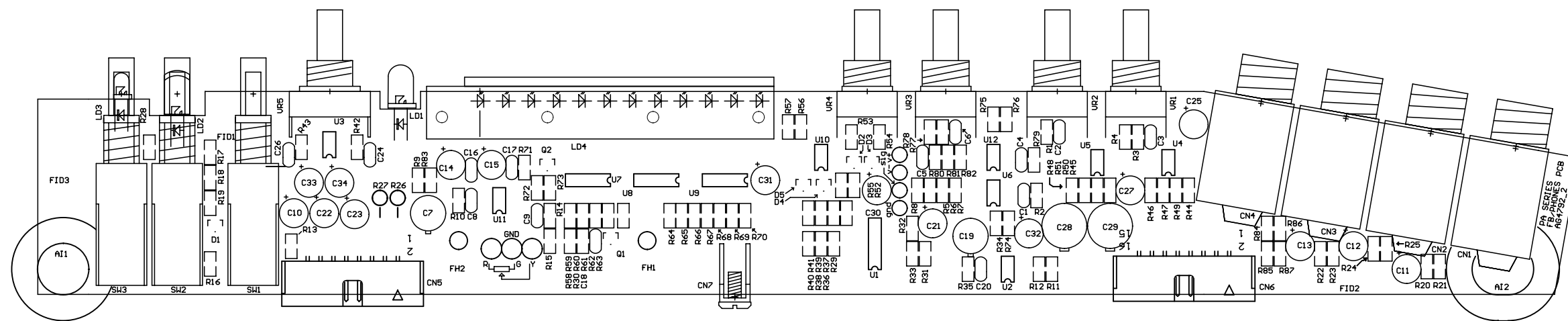


- FID1 FIDUCIAL
- FID2 FIDUCIAL
- FID3 FIDUCIAL
- A11 HOLE-A1 VTECH
- A12 SLOT-A1 VTECH
- FH1 HOLE-FIXING 3.5MM
- FH2 HOLE-FIXING 3.5MM



- PILLAR1 PILLAR M3X11 NYLON TAP
- PILLAR2 PILLAR M3X11 NYLON TAP
- SCREW1 SCREW M3X6 PAN TORX BK
- SCREW2 SCREW M3X6 PAN TORX BK
- SCREW3 SCREW M3X6 PAN TORX BK
- SCREW4 SCREW M3X6 PAN TORX BK

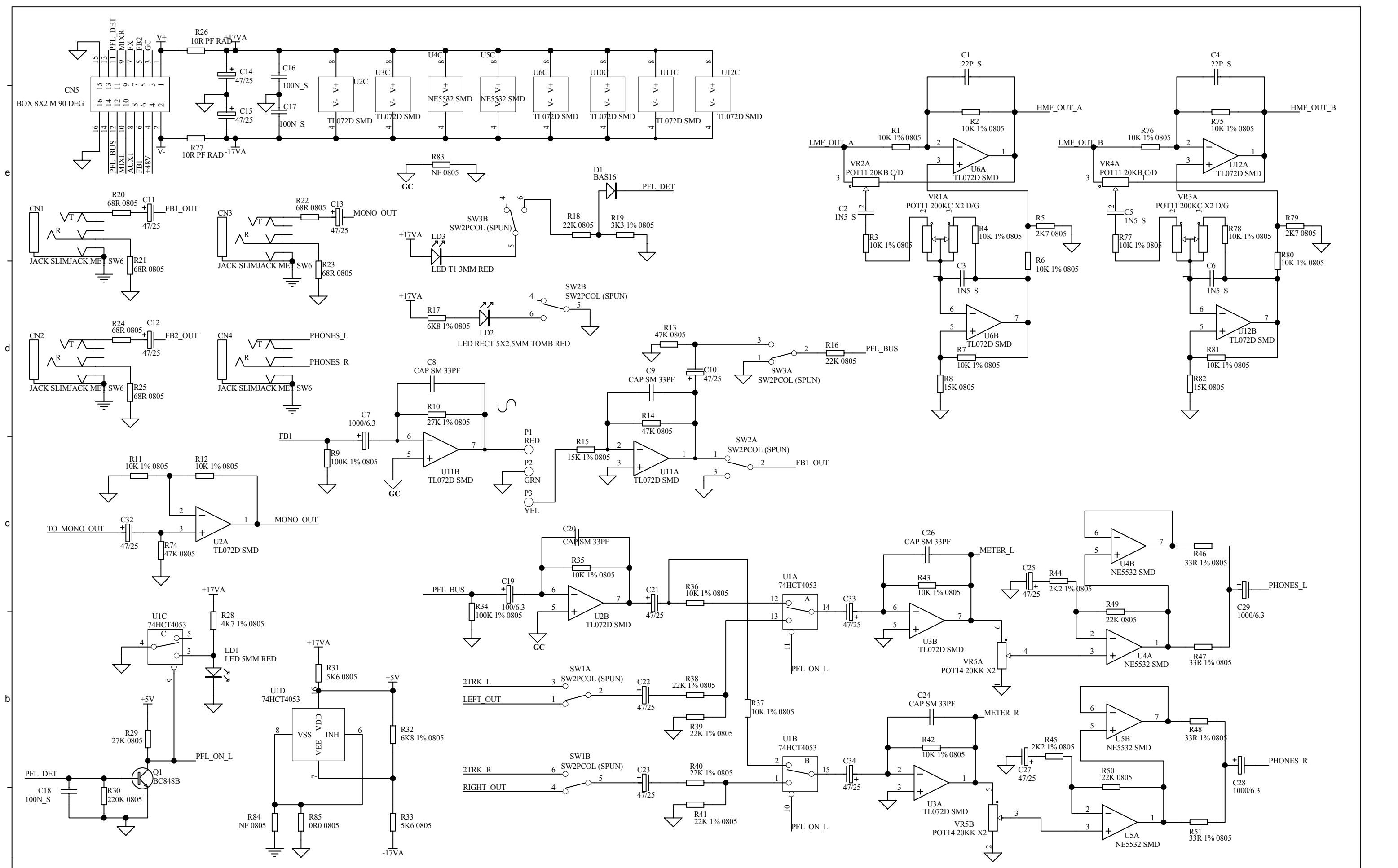
ALLEN&HEATH Kernick Industrial Estate, Penryn, Cornwall, England. TR10 9LU Tel: +44 (0)8707 556250 Fax: +44 (0)8707 556251	ISSUE	BY	DATE	TITLE: PA Series Foldback/Phones pcb PAGE:
	ORIGIN			
	A	JB	7/3/02	
	B	JB	29/4/02	
	C	AAT	01-05-02	
	1	AAT	24-07-02	
	2	MG	21-10-02	
FILE: C4792_2P3.Sch	PRINTED: 09:59:09	27-Mar-2003		



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Designator	Description	Designator	Description
C1	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R37	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C2	CAPACITOR SMD 1N5 CERAMIC SMD (AF2991)	R38	RESISTOR SMD 22K 1% 0805 (AC2842)
C3	CAPACITOR SMD 1N5 CERAMIC SMD (AF2991)	R39	RESISTOR SMD 22K 1% 0805 (AC2842)
C4	CAPACITOR CERAMIC SMD0805 22P (AF2992)	R40	RESISTOR SMD 22K 1% 0805 (AC2842)
C5	CAPACITOR SMD 1N5 CERAMIC SMD (AF2991)	R41	RESISTOR SMD 22K 1% 0805 (AC2842)
C6	CAPACITOR SMD 1N5 CERAMIC SMD (AF2991)	R42	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C7	CAPACITOR ELECTROLYTIC 100uF 6.3V (AF2984)	R43	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
C8	CAP SM 33pF (AF4887)	R44	RESISTOR METAL FILM SMD0805 2K2 1% (AC0370)
C9	CAP SM 33pF (AF4887)	R45	RESISTOR METAL FILM SMD0805 2K2 1% (AC0370)
C10	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R46	RESISTOR METAL FILM SMD0805 33R 1% (AC2839)
C11	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R47	RESISTOR METAL FILM SMD0805 33R 1% (AC2839)
C12	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R48	RESISTOR METAL FILM SMD0805 33R 1% (AC2839)
C13	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R49	RESISTOR CARBON SMD0805 22K 5% (AC3540)
C14	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R50	RESISTOR CARBON SMD0805 22K 5% (AC3540)
C15	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R51	RESISTOR METAL FILM SMD0805 33R 1% (AC2839)
C16	CAPACITOR CERAMIC SMD0805 100N (AF2851)	R52	RESISTOR SMD 56K 1% 0805 METAL (AC5051)
C17	CAPACITOR CERAMIC SMD0805 100N (AF2851)	R53	RESISTOR METAL FILM SMD0805 330K 1% (AC3087)
C18	CAPACITOR CERAMIC SMD0805 100N (AF2851)	R54	RESISTOR CARBON SMD0805 1K8 5% (AC3029)
C19	CAPACITOR ELECTROLYTIC 100uF 6.3V (AF2984)	R55	RESISTOR SMD 56K 1% 0805 METAL (AC5051)
C20	CAP SM 33pF (AF4887)	R56	RESISTOR METAL FILM SMD0805 330K 1% (AC3087)
C21	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R57	RESISTOR CARBON SMD0805 1K8 5% (AC3029)
C22	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R58	RESISTOR METAL FILM SMD0805 120R 1% (AC3055)
C23	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R59	RESISTOR METAL FILM SMD0805 120R 1% (AC3055)
C24	CAP SM 33pF (AF4887)	R60	RESISTOR METAL FILM SMD0805 120R 1% (AC3055)
C25	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R61	RESISTOR METAL FILM SMD0805 120R 1% (AC3055)
C26	CAP SM 33pF (AF4887)	R62	RESISTOR METAL FILM SMD0805 120R 1% (AC3055)
C27	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R63	RESISTOR METAL FILM SMD0805 330R 1% (AC3056)
C28	CAPACITOR ELECTROLYTIC 1000uF 6.3V (AF8123)	R64	RESISTOR METAL FILM SMD0805 330R 1% (AC3056)
C29	CAPACITOR ELECTROLYTIC 1000uF 6.3V (AF8123)	R65	RESISTOR METAL FILM SMD0805 560R 1% (AC3057)
C30	CAPACITOR ELECTROLYTIC 1uF 63V (AF0210)	R66	RESISTOR METAL FILM SMD0805 680R 1% (AC3058)
C31	CAPACITOR ELECTROLYTIC 1uF 63V (AF0210)	R67	RESISTOR METAL FILM SMD0805 1K2 1% (AC3059)
C32	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R68	RESISTOR METAL FILM SMD0805 1K2 1% (AC3059)
C33	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R69	RESISTOR CARBON SMD0805 3K9 5% (AC4105)
C34	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)	R70	RESISTOR METAL FILM SMD0805 1K0 1% (AC0369)
CN1	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)	R71	RESISTOR CARBON SMD0805 15K 5% (AC3486)
CN2	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)	R72	RESISTOR METAL FILM SMD0805 4K7 1% (AC3062)
CN3	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)	R73	RESISTOR METAL FILM SMD0805 1K2 1% (AC3059)
CN4	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)	R74	RESISTOR CARBON SMD0805 47K 5% (AC3035)
CN5	Connector IDC,Molex Type 0.1 Pitch 8x2 pins (AL4335)	R75	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
CN6	Connector IDC,Molex Type 0.1 Pitch 8x2 pins (AL4335)	R76	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
CN7	EARTH SCREW TERMINAL NARROW HORIZONTAL TYPE (AA9000)	R77	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
D1	DIODE SIGNAL SMD BAS16 (AE3352)	R78	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
D2	DIODE SIGNAL SMD BAS16 (AE3352)	R79	RESISTOR SMD 2K7 5% 0805 (AC4698)
D3	DIODE SIGNAL SMD BAS16 (AE3352)	R80	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
D4	DIODE SIGNAL SMD BAS16 (AE3352)	R81	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
D5	DIODE SIGNAL SMD BAS16 (AE3352)	R82	RESISTOR CARBON SMD0805 15K 5% (AC3486)
LD1	LED 0.2" RED (AE0001)	R85	RESISTOR SMD 0R 5% 0805 (AC2838)
LD3	LED T1 3MM RED (AE0086)	R87	RESISTOR SMD 0R 5% 0805 (AC2838)
LD2	LED RECT 5x2.5MM TOMBSTONE RED (AE4863)	SW1	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
LD4	LED BAR MB12 SQUARE LEDS IN HOUSING 8G,3Y,1R (AE2701)	SW2	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
Q1	TRANSISTOR NPN BC848B (AE3332)	SW3	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
Q2	TRANSISTOR PNP BC858B (AE3042)	U1	IC SMD 74HC4053 (AE3355)
R1	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)	U2	IC SMD DUAL OP-AMP TL072 (AE3335)
R2	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)	U3	IC SMD DUAL OP-AMP TL072 (AE3335)
R3	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)	U4	IC SMD DUAL OP-AMP NE5532 (AE4699)
R4	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)	U5	IC SMD DUAL OP-AMP NE5532 (AE4699)
R5	RESISTOR SMD 2K7 5% 0805 (AC4698)	U6	IC SMD DUAL OP-AMP TL072 (AE3335)
R6	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)	U7	IC LM339 COMPARATOR SMD (AE4890)
R7	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)	U8	IC LM339 COMPARATOR SMD (AE4890)
R8	RESISTOR CARBON SMD0805 15K 5% (AC3486)	U9	IC LM339 COMPARATOR SMD (AE4890)
R9	RESISTOR METAL FILM SMD0805 100K 1% (AC2843)	U10	IC SMD DUAL OP-AMP TL072 (AE3335)
R10	RESISTOR SMD 27K 1% 0805 METAL (AC5049)	U11	IC SMD DUAL OP-AMP TL072 (AE3335)
R11	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)	U12	IC SMD DUAL OP-AMP TL072 (AE3335)
R12	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)	VR1	POT ALPS 11mm 200K X2 DUAL GANG 204C (AI8005)
R13	RESISTOR SMD 47K 5% 0805 (AC3035)	VR2	POT ALPS 11mm 20KB C/D 203B (AI8004)
R14	RESISTOR SMD 47K 5% 0805 (AC3035)	VR3	POT ALPS 11mm 200K X2 DUAL GANG 204C (AI8005)
R15	RESISTOR SMD 15K 1% 0805 METAL (AC5050)	VR4	POT ALPS 11mm 20KB C/D 203B (AI8004)
R16	RESISTOR CARBON SMD0805 22K 5% (AC3540)	VR5	POT ALPS 14mm 20KK x2 203K (AI8007)
R17	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)	modification	CAP ML CER 100NF 100V 104
R18	RESISTOR CARBON SMD0805 22K 5% (AC3540)		
R19	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)		
R20	RESISTOR CARBON SMD0805 68R 5% (AC4101)		
R21	RESISTOR CARBON SMD0805 68R 5% (AC4101)		
R22	RESISTOR CARBON SMD0805 68R 5% (AC4101)		
R23	RESISTOR CARBON SMD0805 68R 5% (AC4101)		
R24	RESISTOR CARBON SMD0805 68R 5% (AC4101)		
R25	RESISTOR CARBON SMD0805 68R 5% (AC4101)		
R26	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC5077)		
R27	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC5077)		
R28	RESISTOR METAL FILM SMD0805 4K7 1% (AC3062)		
R29	RES SMD 56K 1% 0805 METAL FILM (AC5051)		
R30	RESISTOR CARBON SMD0805 220K 5% (AC4108)		
R31	RESISTOR CARBON SMD0805 5K6 5% (AC4106)		
R32	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)		
R33	RESISTOR CARBON SMD0805 5K6 5% (AC4106)		
R34	RESISTOR METAL FILM SMD0805 100K 1% (AC2843)		
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R36	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)		



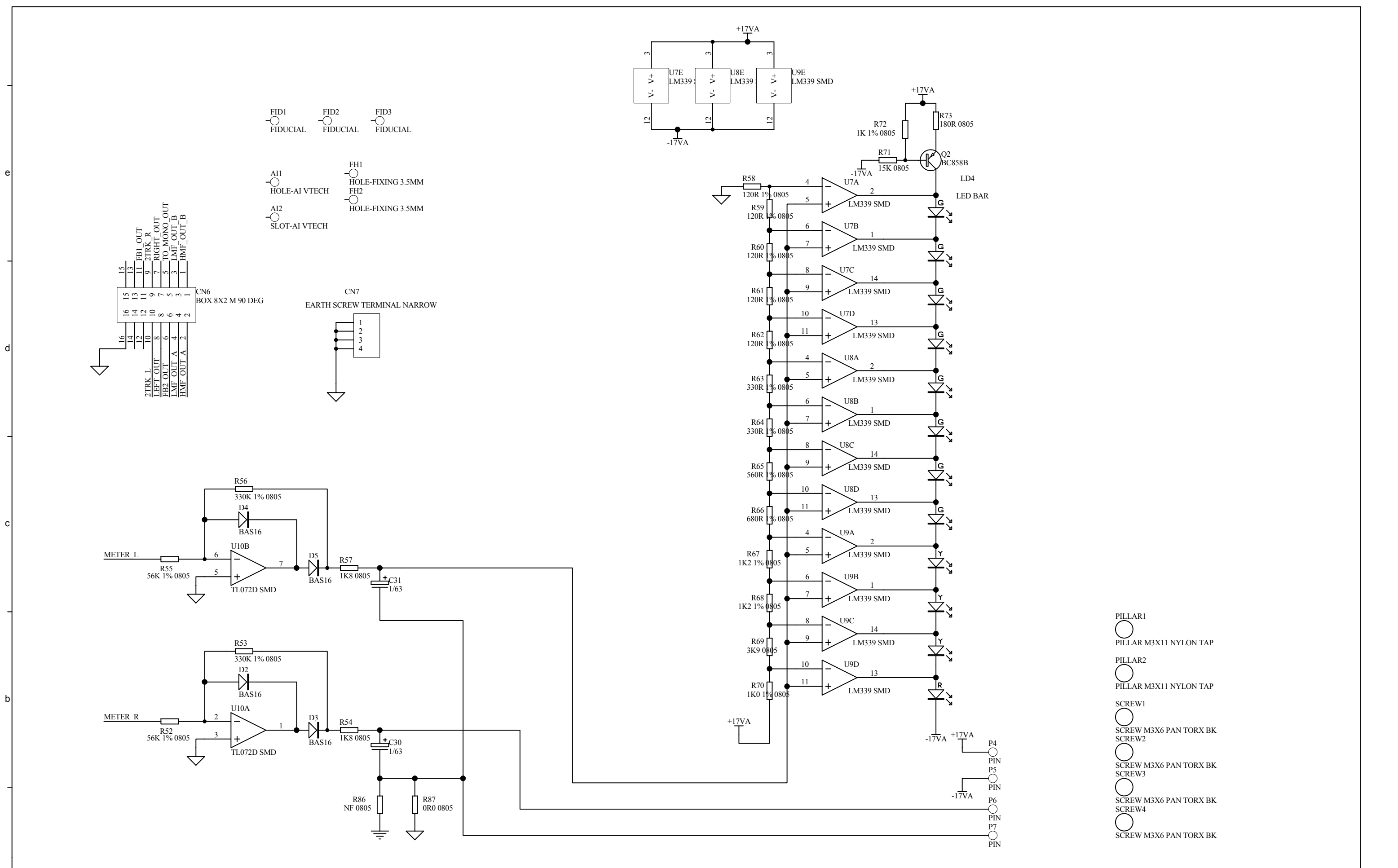
ALLEN&HEATH
 Kernick Industrial Estate,
 Penryn, Cornwall,
 England. TR10 9LU
 Tel: +44 (0)8707 556250
 Fax: +44 (0)8707 556251

ISSUE	BY	DATE
A	JB	7/3/02
B	JB	29/4/02
C	AAT	01-05-02
1	AAT	24-07-02
2	MG	21-10-02
2.1	MG	07-07-03

VR1B	VR2B	VR3B	VR4B	VR5C
POT11 200KC X2 D/G	POT11 20KB C/D	POT11 200KC X2 D/G	POT11 20KB C/D	POT11 20KB C/D

FILE: C4792_2.1P1.Sch PRINTED: 16:04:25 29-Jul-2003

TITLE: PA Series Foldback/Phones pcb
 PAGE:
 DRG No: C4792 ISSUE: 2.1 SHEET: 1 OF 2



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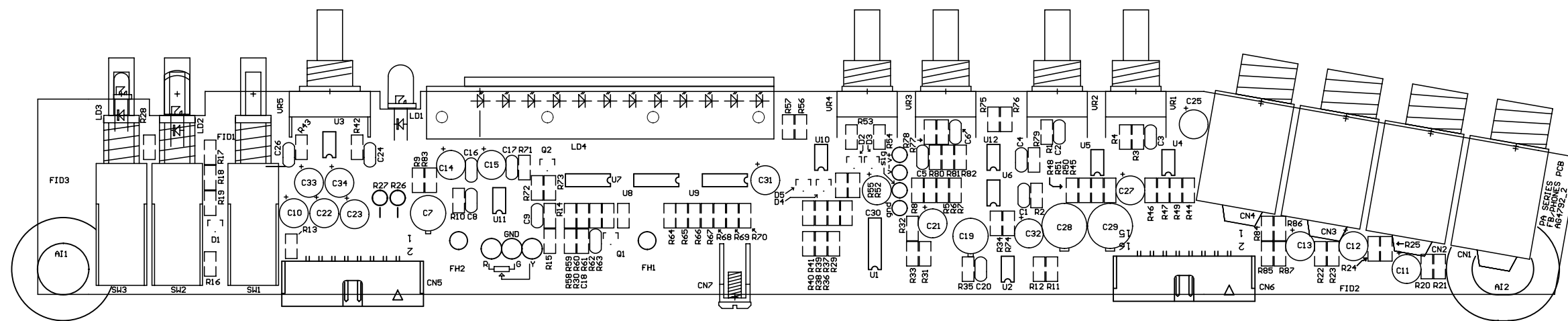
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 Kernick Industrial Estate,
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 Tel: +44 (0)8707 556250
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ISSUE	BY	DATE
A	JB	7/3/02
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C	AAT	01-05-02
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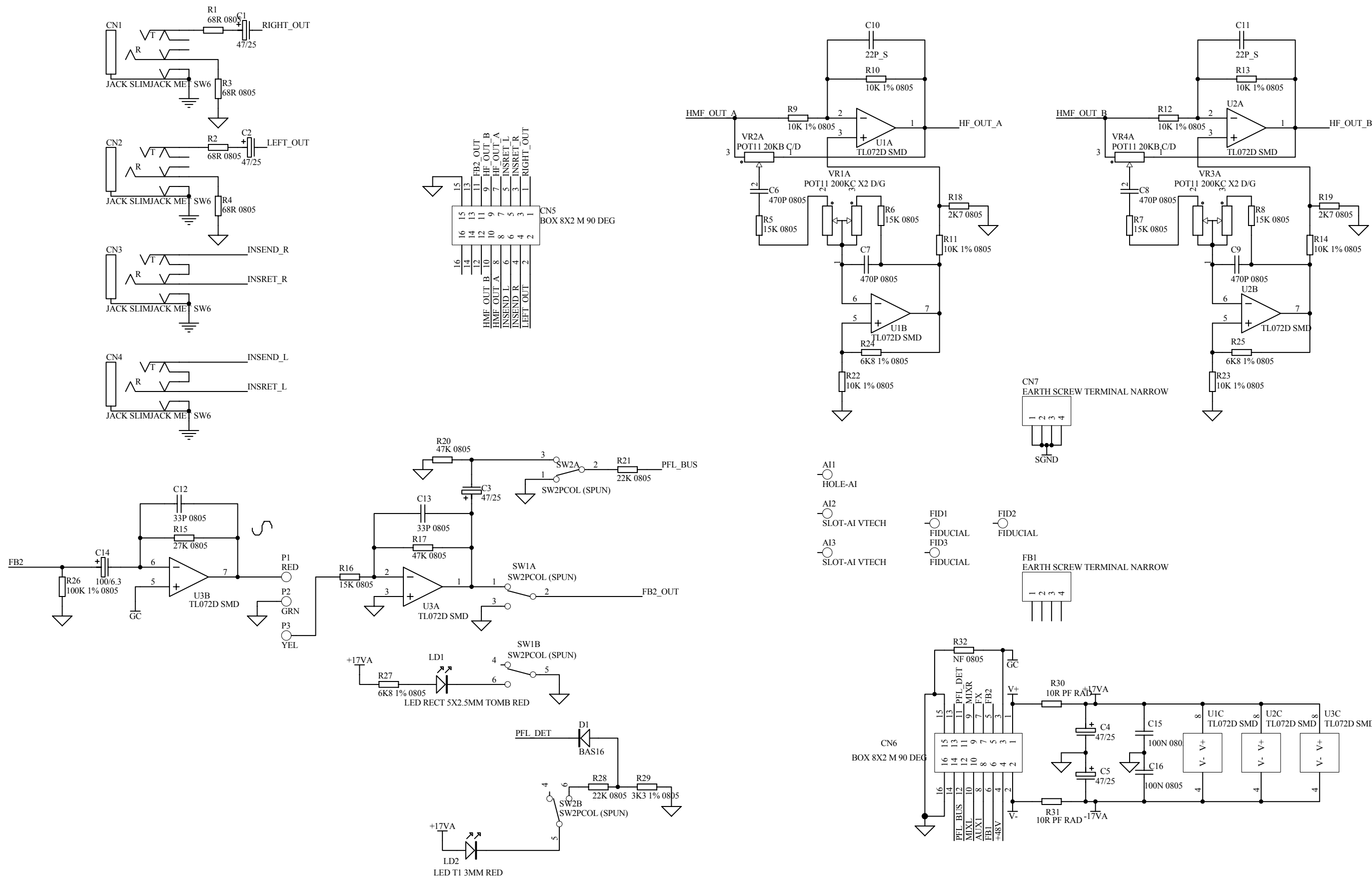
TITLE: PA Series Foldback/Phones pcb
 PAGE:
 DRG No: C4792 ISSUE: 2.1 SHEET: 2 OF 2

- PILLAR1
- PILLAR M3X11 NYLON TAP
- PILLAR2
- PILLAR M3X11 NYLON TAP
- SCREW1
- SCREW M3X6 PAN TORX BK
- SCREW2
- SCREW M3X6 PAN TORX BK
- SCREW3
- SCREW M3X6 PAN TORX BK
- SCREW4
- SCREW M3X6 PAN TORX BK



TOP OVERLAY

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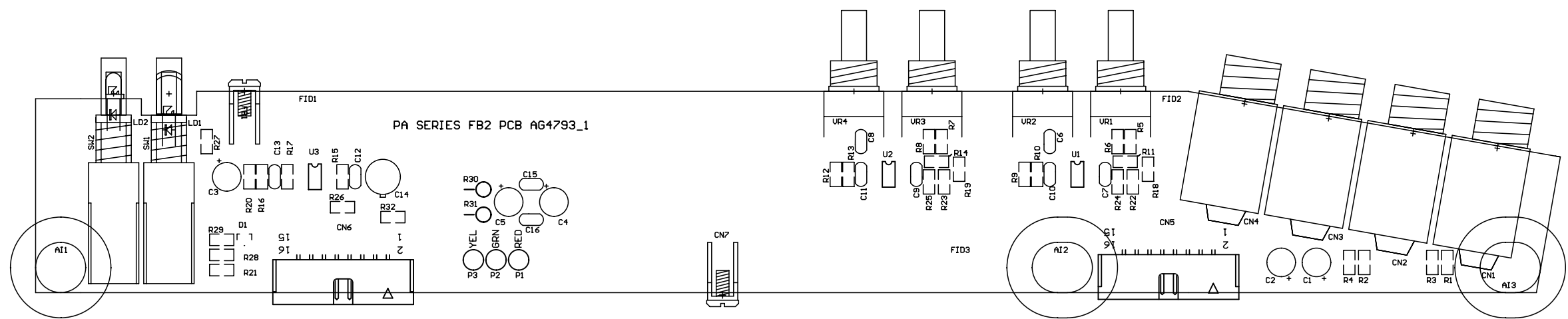
ALLEN&HEATH
 Kernick Industrial Estate,
 Penryn, Cornwall,
 England. TR10 9LU
 Tel: +44 (0)8707 556250
 Fax: +44 (0)8707 556251

ISSUE	BY	DATE
A	JB	7/3/02
B	AAT	19-04-02
1	AAT	27-06-02

ORIGIN	VR1B	VR2B	VR3B	VR4B
A	POT11 200KC X2 D/G	POT11 20KB C/D	POT11 200KC X2 D/G	POT11 20KB C/D
B	BRKT	BRKT	BRKT	BRKT
1				

FILE: C4793_1.Sch PRINTED: 10:31:27 27-Mar-2003

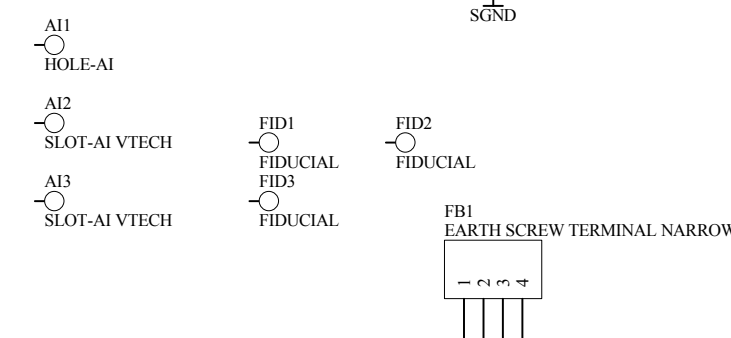
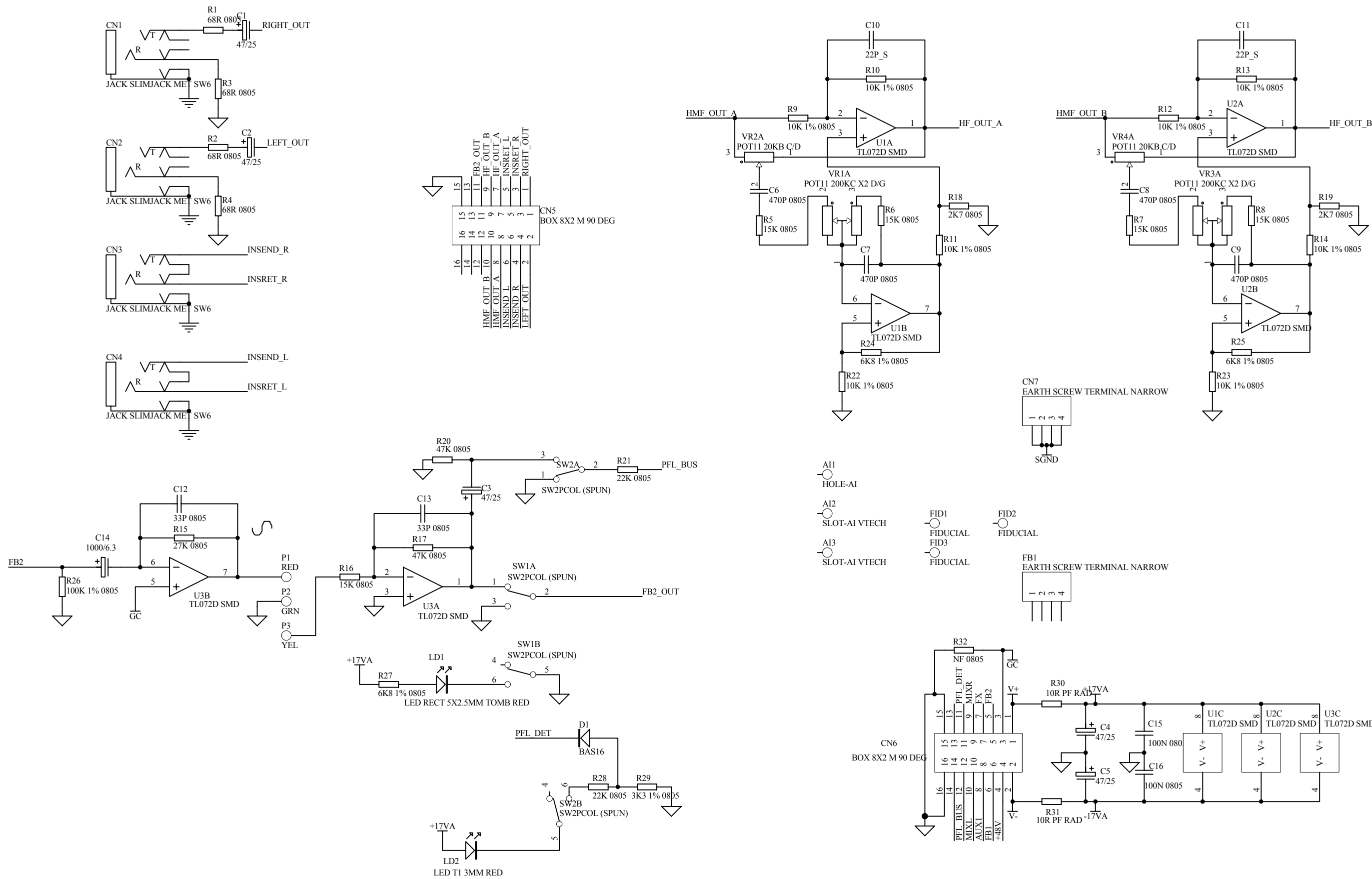
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TOP OVERLAY

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Designator	Description
C1	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)
C2	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)
C3	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)
C4	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)
C5	CAPACITOR ELECTROLYTIC 47uF 25V (AF0208)
C6	CAPACITOR SMD 470P CERAMIC 0805 (AF2848)
C7	CAPACITOR SMD 470P CERAMIC 0805 (AF2848)
C8	CAPACITOR SMD 470P CERAMIC 0805 (AF2848)
C9	CAPACITOR SMD 470P CERAMIC 0805 (AF2848)
C10	CAPACITOR CERAMIC SMD0805 22P (AF2992)
C11	CAPACITOR CERAMIC SMD0805 22P (AF2992)
C12	CAPACITOR CERAMIC SMD0805 33P (AF4887)
C13	CAPACITOR CERAMIC SMD0805 33P (AF4887)
C14	CAPACITOR ELECTROLYTIC 100uF 6.3V (AF2984)
C15	CAPACITOR CERAMIC SMD0805 100N (AF2851)
C16	CAPACITOR CERAMIC SMD0805 100N (AF2851)
CN1	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)
CN2	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)
CN3	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)
CN4	JACK SOCKET HORIZONTAL 6 PIN MET HEADPHONE (AL4713)
CN5	Connector IDC,Molex Type 0.1 Pitch 8x2 pins (AL4335)
CN6	Connector IDC,Molex Type 0.1 Pitch 8x2 pins (AL4335)
CN7	EARTH SCREW TERMINAL NARROW HORIZONTAL TYPE (AA9000)
D1	DIODE SIGNAL SMD BAS16 (AE3352)
LD1	LED RECT 5x2.5MM TOMBSTONE RED (AE4863)
LD2	LED T1 3mm RED (AE0086)
R1	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R2	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R3	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R4	RESISTOR CARBON SMD0805 68R 5% (AC4101)
R5	RESISTOR CARBON SMD0805 15K 5% (AC3486)
R6	RESISTOR CARBON SMD0805 15K 5% (AC3486)
R7	RESISTOR CARBON SMD0805 15K 5% (AC3486)
R8	RESISTOR CARBON SMD0805 15K 5% (AC3486)
R9	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R10	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R11	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R12	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R13	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R14	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R15	RESISTOR CARBON SMD0805 27K 5% (AC4693)
R16	RESISTOR CARBON SMD0805 15K 5% (AC3486)
R17	RESISTOR CARBON SMD0805 47K 5% (AC3035)
R18	RESISTOR CARBON SMD0805 2K7 5% (AC4698)
R19	RESISTOR CARBON SMD0805 2K7 5% (AC4698)
R20	RESISTOR CARBON SMD0805 47K 5% (AC3035)
R21	RESISTOR CARBON SMD0805 22K 5% (AC3540)
R22	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R23	RESISTOR METAL FILM SMD0805 10K 1% (AC2841)
R24	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)
R25	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)
R26	RESISTOR METAL FILM SMD0805 100K 1% (AC2843)
R27	RESISTOR METAL FILM SMD0805 6K8 1% (AC3064)
R28	RESISTOR CARBON SMD0805 22K 5% (AC3540)
R29	RESISTOR METAL FILM SMD0805 3K3 1% (AC3061)
R30	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC0378)
R31	RESISTOR CARBON 10R PRE FORMED 1/4W 5% (AC0378)
SW1	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
SW2	SWITCH DPDT ALPS (SPUN) LATCHING (AL0162)
U1	IC SMD DUAL OP-AMP TL072 (AE3335)
U2	IC SMD DUAL OP-AMP TL072 (AE3335)
U3	IC SMD DUAL OP-AMP TL072 (AE3335)
VR1	POT ALPS 11mm 200KC X2 DUAL GANG 204C (AI8005)
VR2	POT ALPS 11mm 20KB C/D 203B (AI8004)
VR3	POT ALPS 11mm 200KC X2 DUAL GANG 204C (AI8005)
VR4	POT ALPS 11mm 20KB C/D 203B (AI8004)



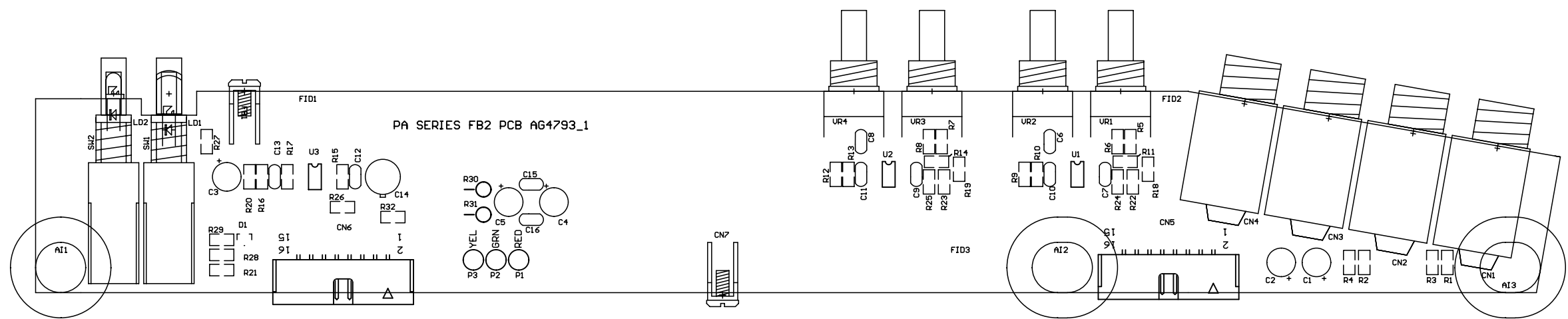
ALLEN&HEATH
 Kernick Industrial Estate,
 Penryn, Cornwall,
 England. TR10 9LU
 Tel: +44 (0)8707 556250
 Fax: +44 (0)8707 556251

ISSUE	BY	DATE
A	JB	7/3/02
B	AAT	19-04-02
1	AAT	27-06-02
1.1	MG	7-7-03

VR1B	VR2B	VR3B	VR4B
POT11 200KC X2 D/G	POT11 20KB C/D	POT11 200KC X2 D/G	POT11 20KB C/D

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TOP OVERLAY

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