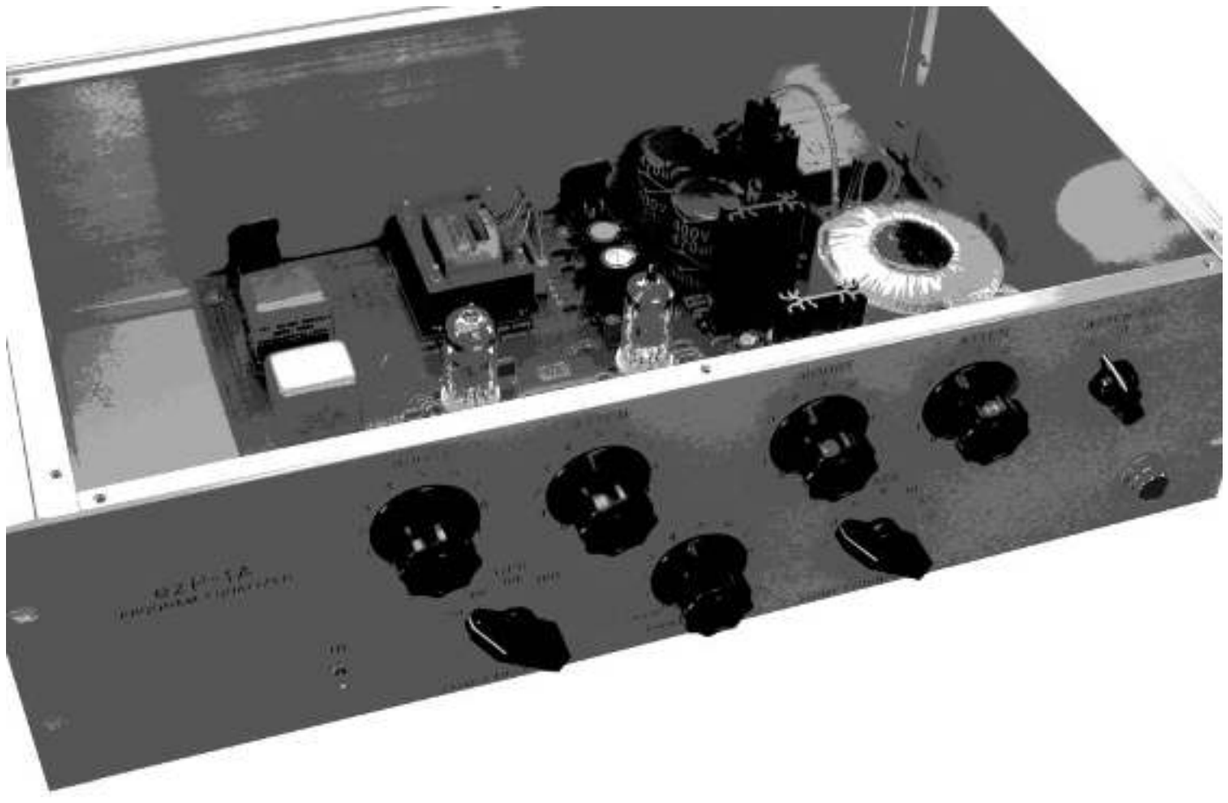
ezP-1A Passive Program Equalizer - Assembly manual
[“Colourbook” Issue 1]





Warning!

This kit has the potential to be connected to, or generate, high voltages and currents, and high localized temperatures that could cause injury or death to the assembler, operator or end user.
This kit is solely intended as study material for aesthetic and educational purposes. However, should the assembled kit be accidentally or deliberately connected to a source of mains electrical power, potentially lethal voltages and currents could exist within the assembled unit.
This kit must only be assembled by a suitably experienced and qualified electrical or electronic engineer under proper supervision and with suitable safety precautions in place. Ensuring the experience and qualifications criteria are fully understood and complied with is the whole responsibility of the assembler.
Ensuring that this unit is not operated in a way which could cause injury or death is wholly the responsibility of the assembler, operator or end user.
In assembling this kit, you are accepting that all the above warnings and necessary qualifications are understood and complied with and the assembly is at your own risk.

Should this unit be accidentally or deliberately connected to a source of mains power, the following precautions should be observed.

High voltages and currents and localized temperatures will be present on many of the components which could cause injury or death. Voltages in excess of 390v dc and 270v ac may exist even after the source of mains power has been removed. These potentially lethal voltages may be present on many of the components for several minutes after the power source has been removed. Voltages at the appropriate test points should be carefully measured with suitable test equipment to ascertain the safe or unsafe status of the unit. If the unit has been assembled incorrectly, the capacitors may also represent an explosion risk.

General assembly tips.

1] Take your time. (It is a lot quicker to get it right first time than get it wrong and have to perform corrective measures).
2] Use a suitably powerful soldering iron to ensure that the solder flows properly. This is particularly important for the contacts which are attached to the ground plane and the heatsink securing pins.
3] Ensure that the capacitors are fitted the correct way round as reversing their polarity could be potentially hazardous.
4] Don't overtighten the chassis screws else you will never get them out again.

If in doubt ask !

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Attention/Disclaimer

Although this kit can be assembled and built into a functioning audio equalizer, due to the high voltages and possibilities of human builder error, Audio Maintenance Limited hereby assumes no liability for injury/damage/ loss which might unintentionally occur.

This manual is for informational purposes only.

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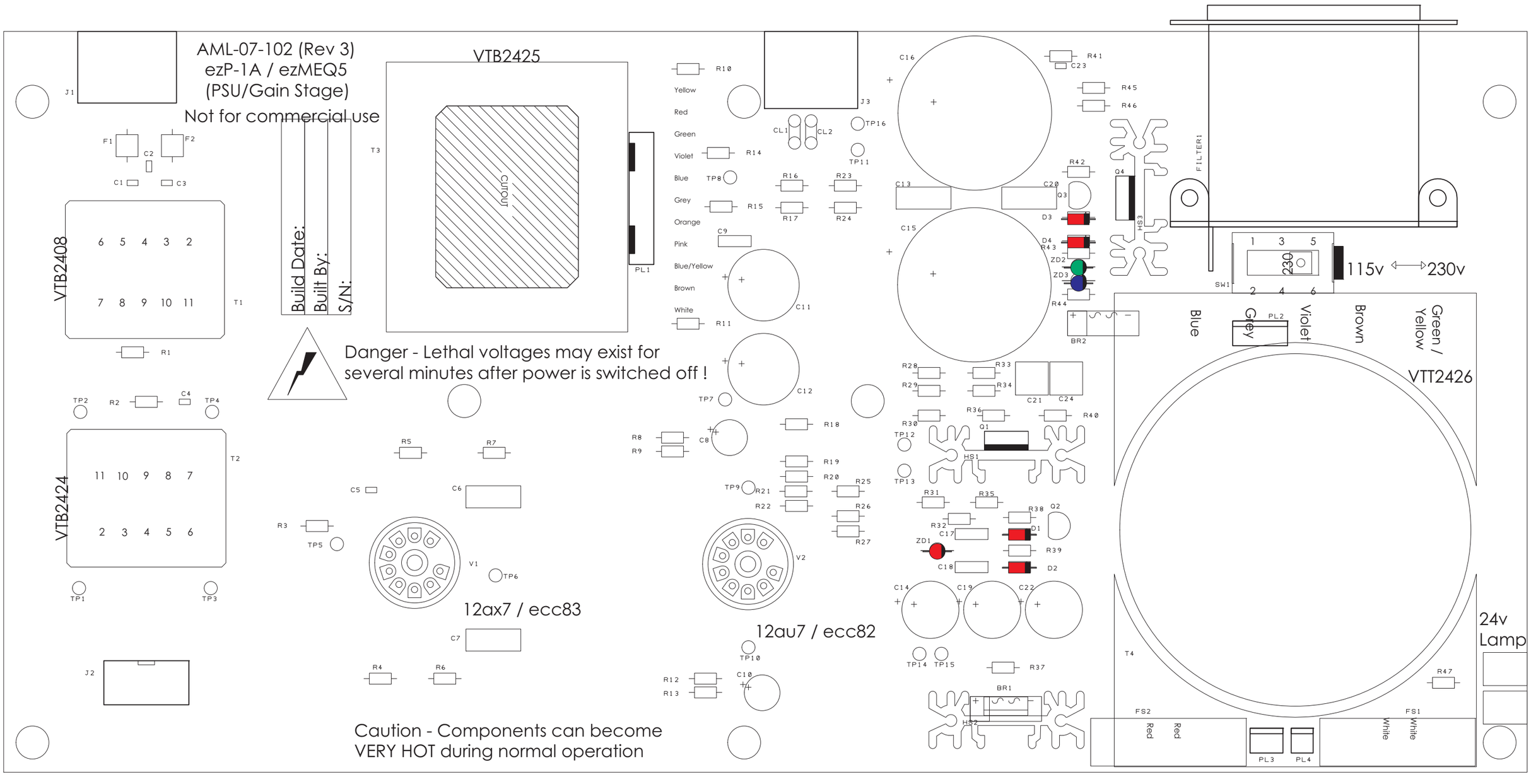
Diodes and Zeners

D1, D2, D3 & D4 = 1N4007 (4)

ZD1 = 15v Zener (1)

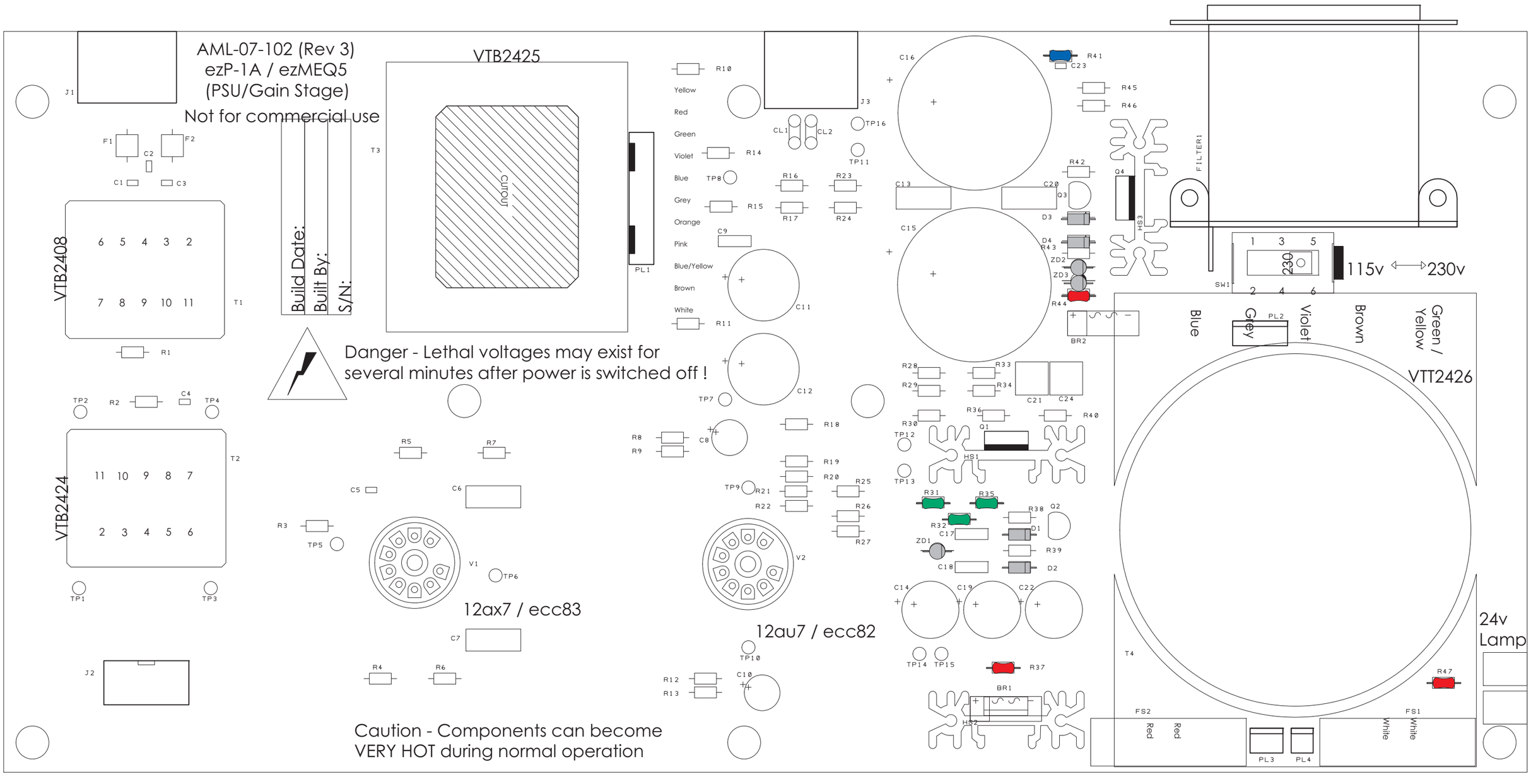
ZD2 = 160v Zener (1)

ZD3 = 180v Zener (1)



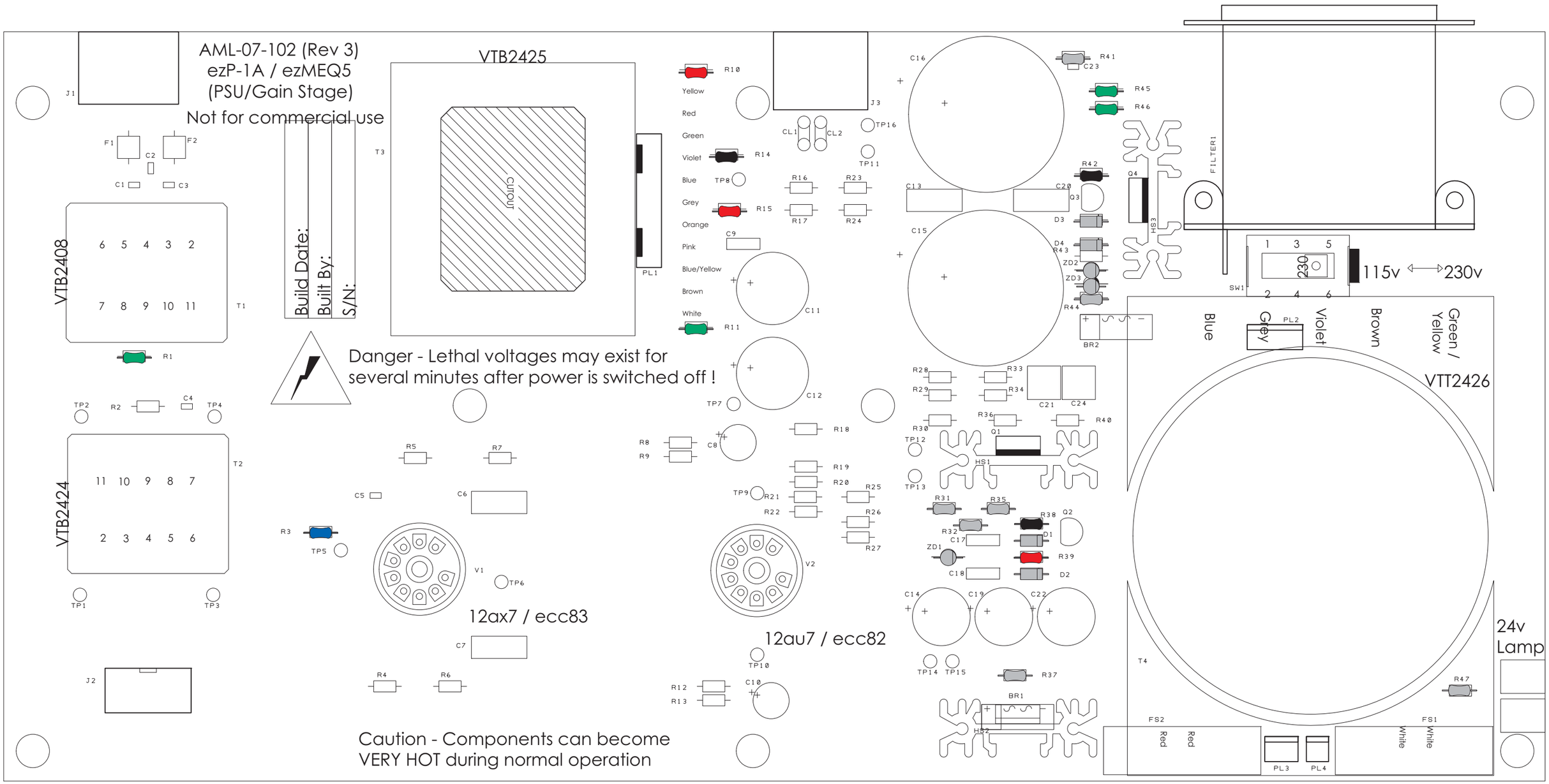
Resistors

- R37, R44 & R47 = 0R (3)
- R31, R32 & R35 = 1R0 (3)
- R41 = 10R (1)



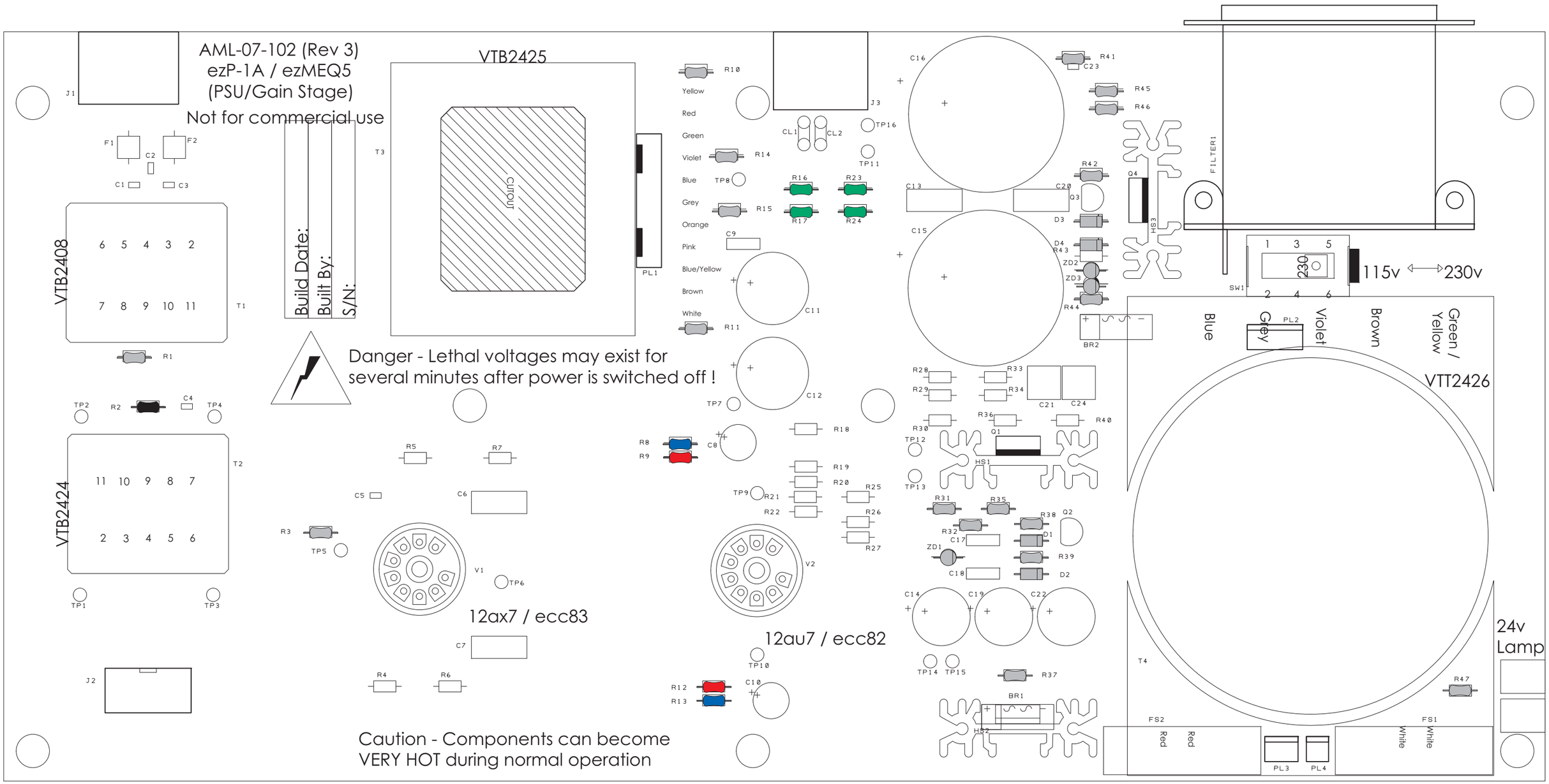
Resistors

- R10, R15 & R39 = 360R (3)
- R1, R11, R45 & R46 = 620R (4)
- R3 = 820R (1)
- R14, R38 & R42 = 1k0 (3)



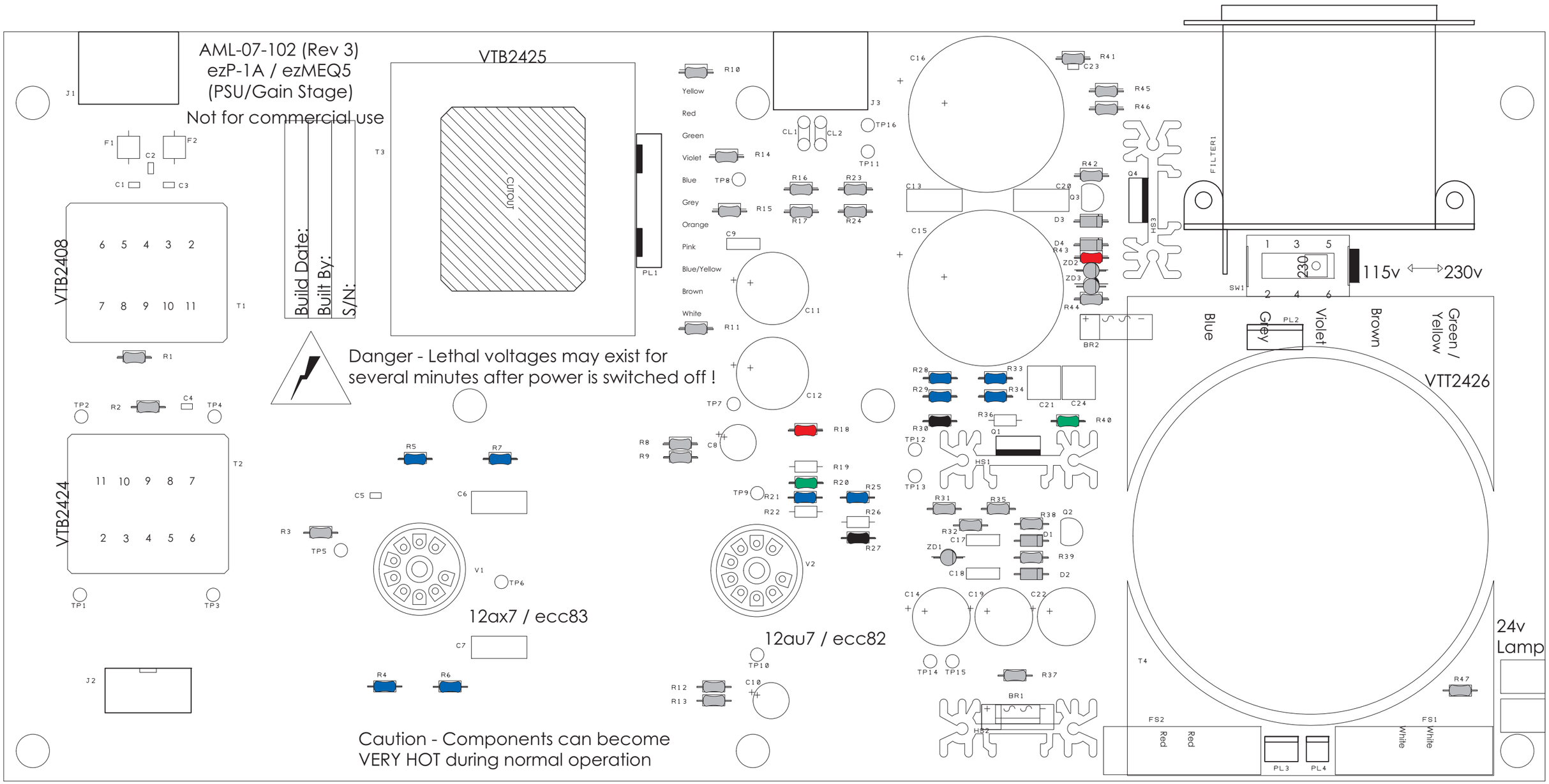
Resistors

- R9 & R12 = 2k0 (2)
- R16, R17, R23 & R24 = 2k2 (4)
- R8 & R13 = 2k7 (2)
- R2 = 43k (1)



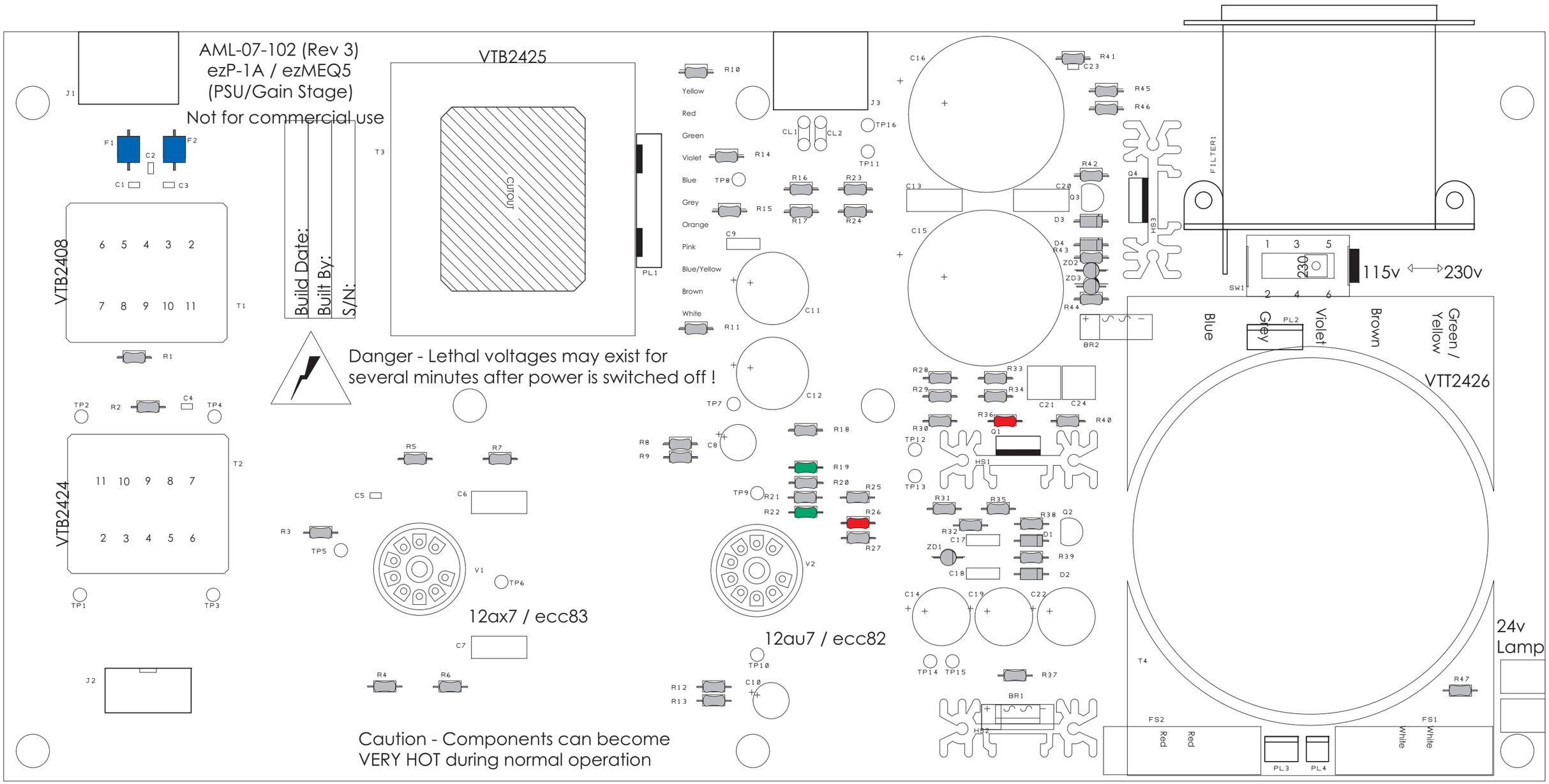
Resistors

- R18 & R43 = 47k (2)
- R20 & R40 = 62k (2)
- R4, R5, R6, R7, R21, R25, R28, R29, R33 & R34 = 100k (10)
- R27 & R30 = 120k (2)



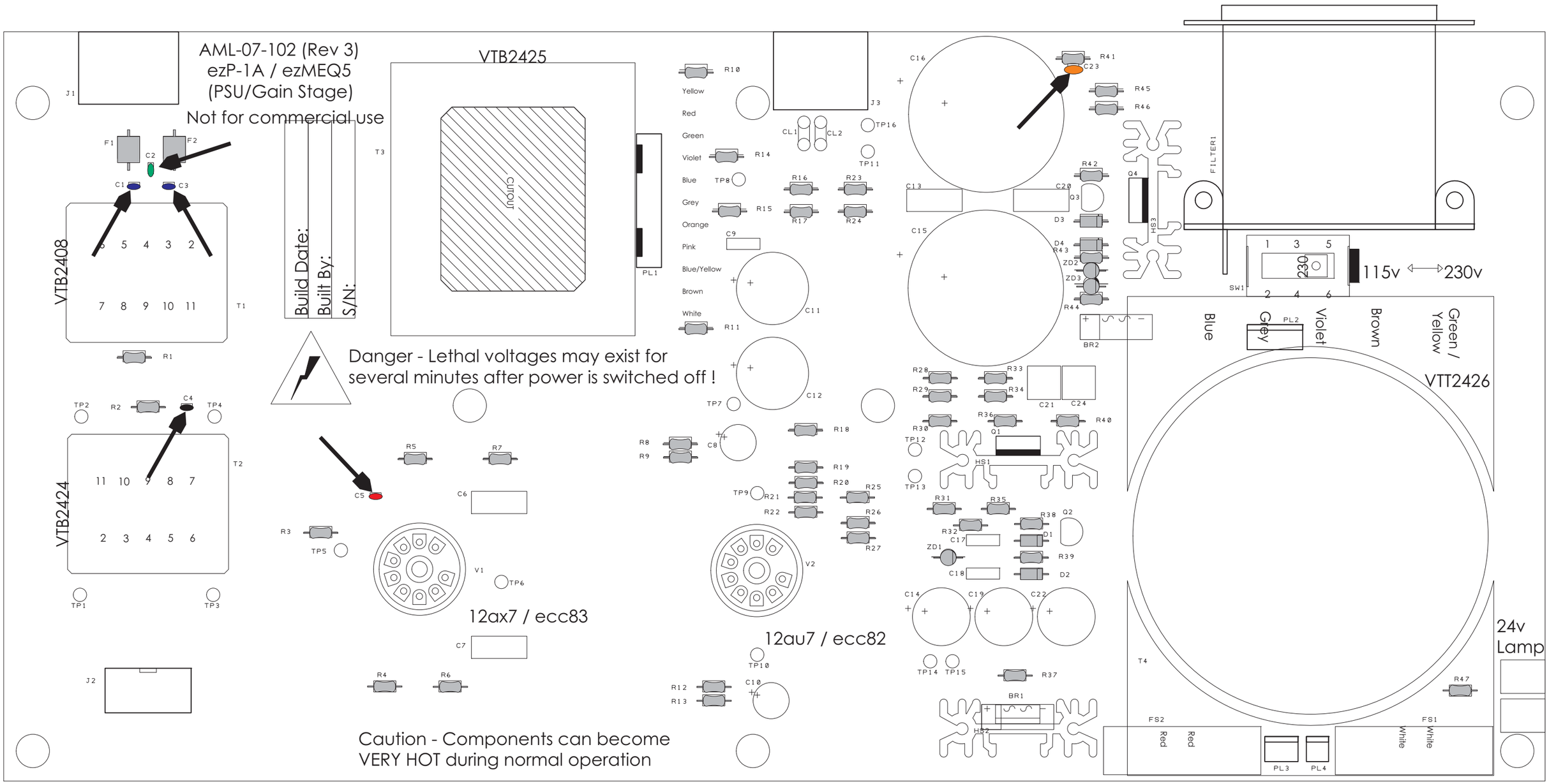
Resistors

- R26 & R36 = 150k (2)
- R19 & R22 = 1M0 (2)
- F1 & F2 = Ferrite Bead (2)



Ceramic Capacitors

- C5 = 22pF (1)
- C2 = 47pF (1)
- C1, C3 = 220pF (2)
- C4 = 680pF (1)
- C23 = 100nF (1)

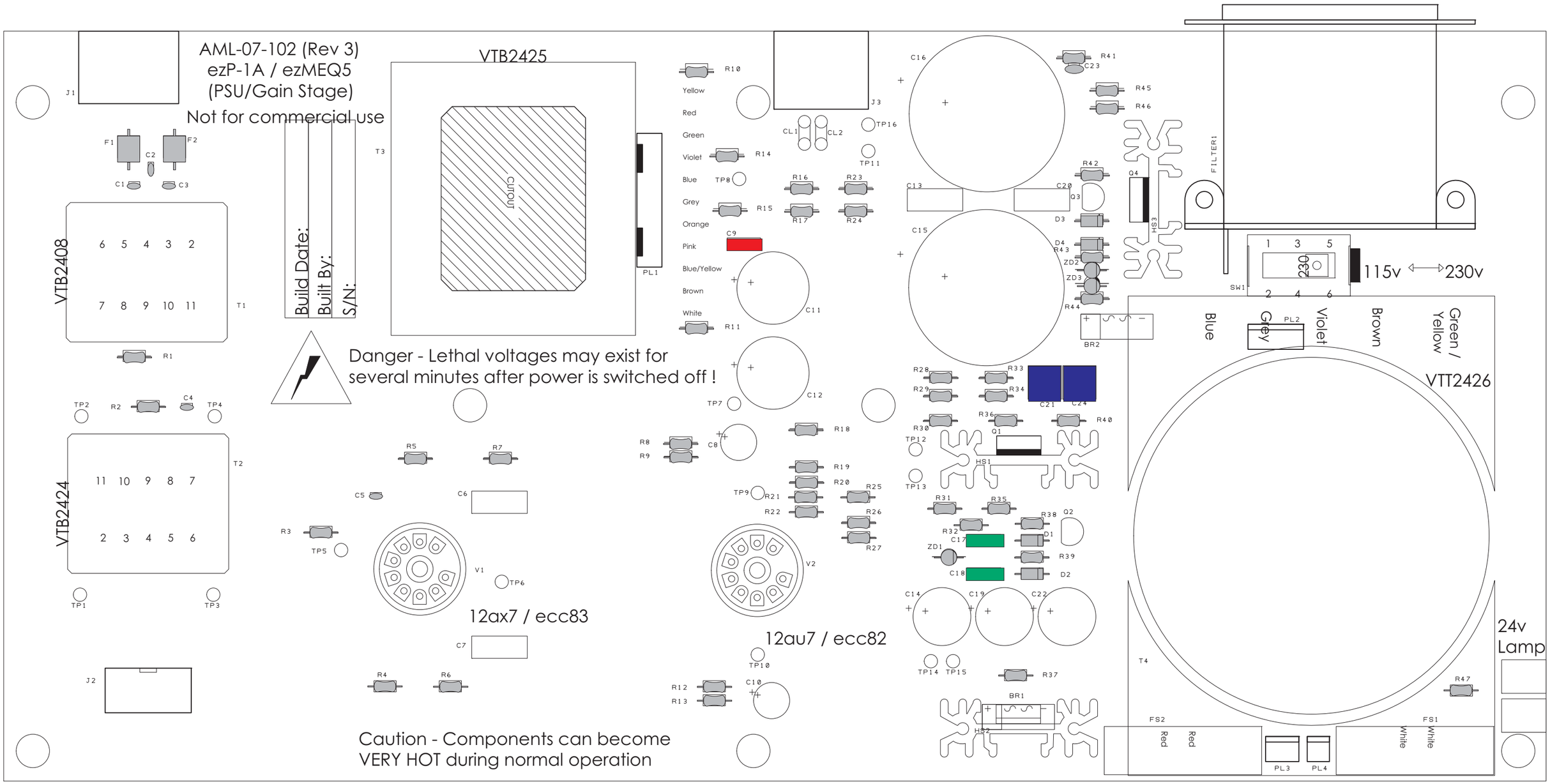


Film Capacitors

C9 = 3n3F (1)

C17 & C18 = 100nF (2)

C21 & C24 = 1uF (2)



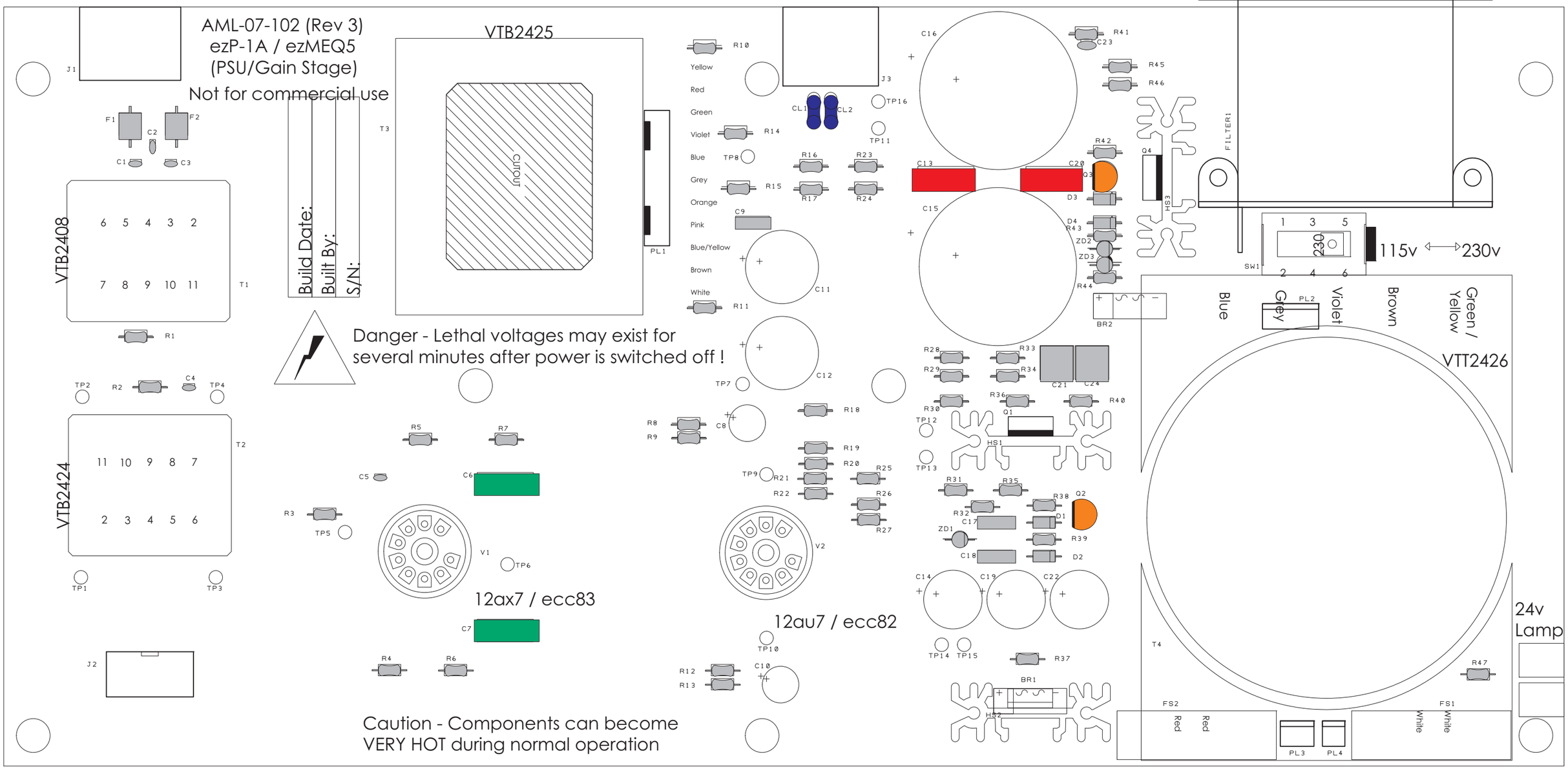
Film Capacitors & Transistors

C13 & C20 = 100nF / 400v (2)

C6 & C7 = 270nF / 250v (2)

CL 1 & CL2 = 100pF C/L Network (2)

Q2 & Q3 = KSP44 (2)



Connectors



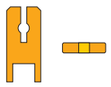
J2 = 10 Way Box Header (1) *** Note orientation****



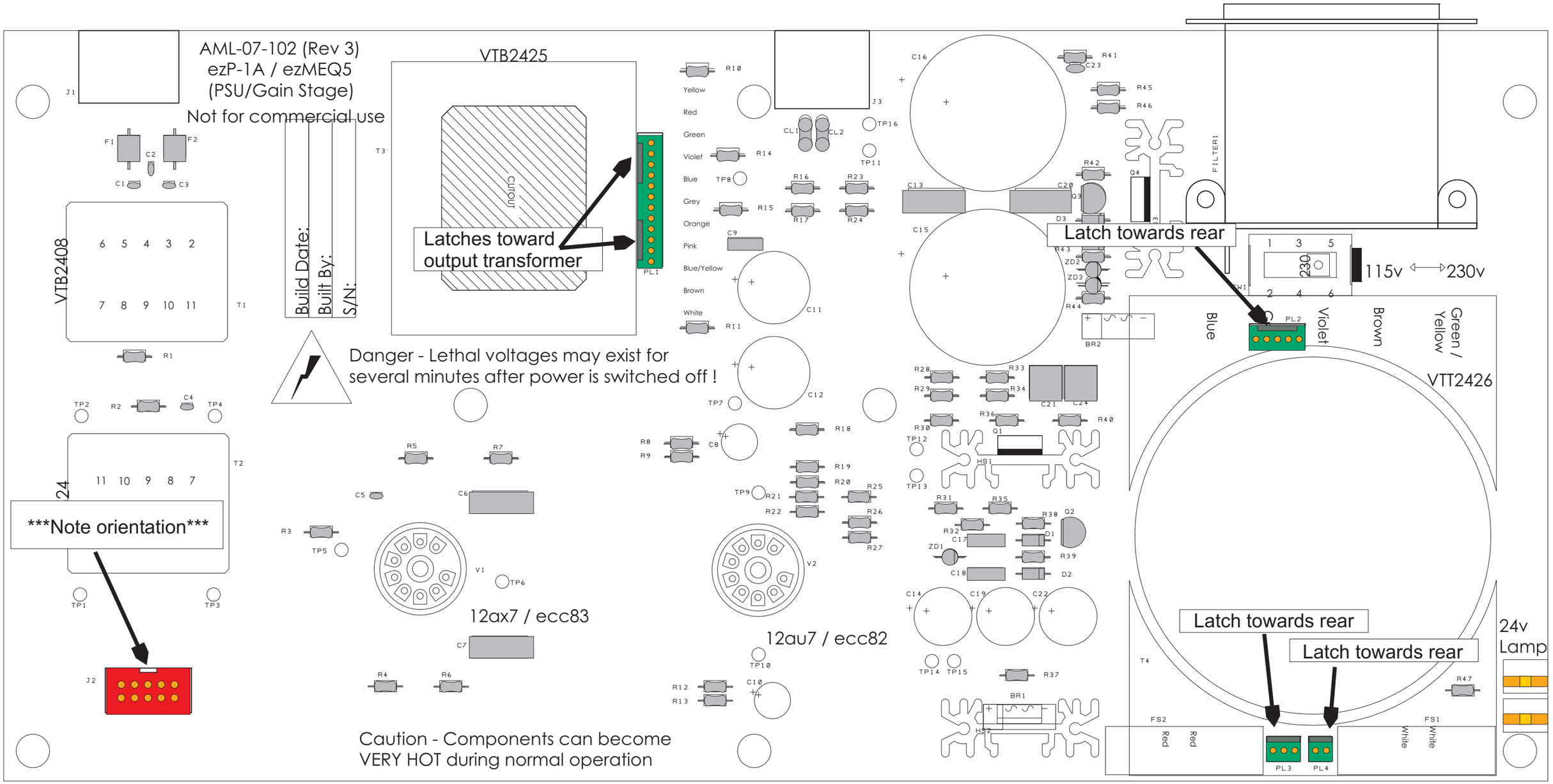
PL1, PL2, PL3 & PL4 = Molex KK Series (4)

PL1 = 12 Way (1)
PL2 = 5 Way (1)
PL3 = 3 Way (1)
PL4 = 2 Way (1)





24v Lamp Terminals = 0.25in spade terminal (2)



Capacitors, Bridge Rectifiers, Valve Sockets



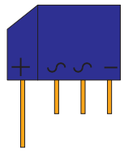
C8 & C10 = 47uF / 63v (2)
Positive terminals towards left



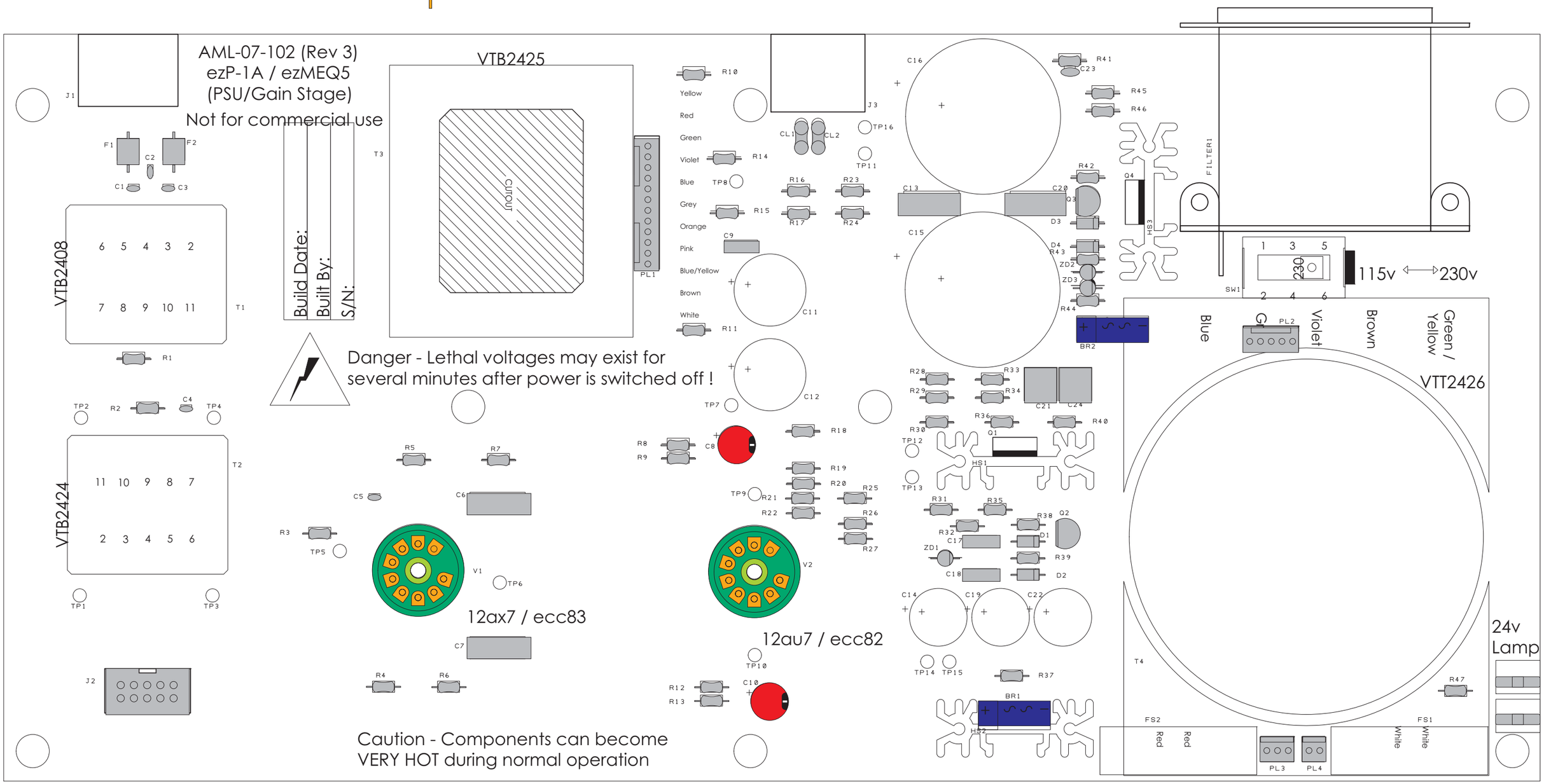
V1 & V2 = 9 Pin Valve Socket (2)



BR1 & BR2 = KBSP08 Bridge Rectifier (2)



Positive terminal to the left (it has a longer lead)



Fuse holders, fuses & Mains voltage selector

FS1 & FS2 = Fuse Holder (2)

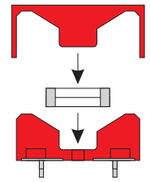
SW1 = Mains voltage selector switch (1)

*** Note orientation ***

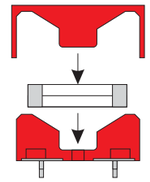
After fitting, select the appropriate voltage.

Slide to Left = 110v/120v operation
Slide to Right = 220v/240v operation

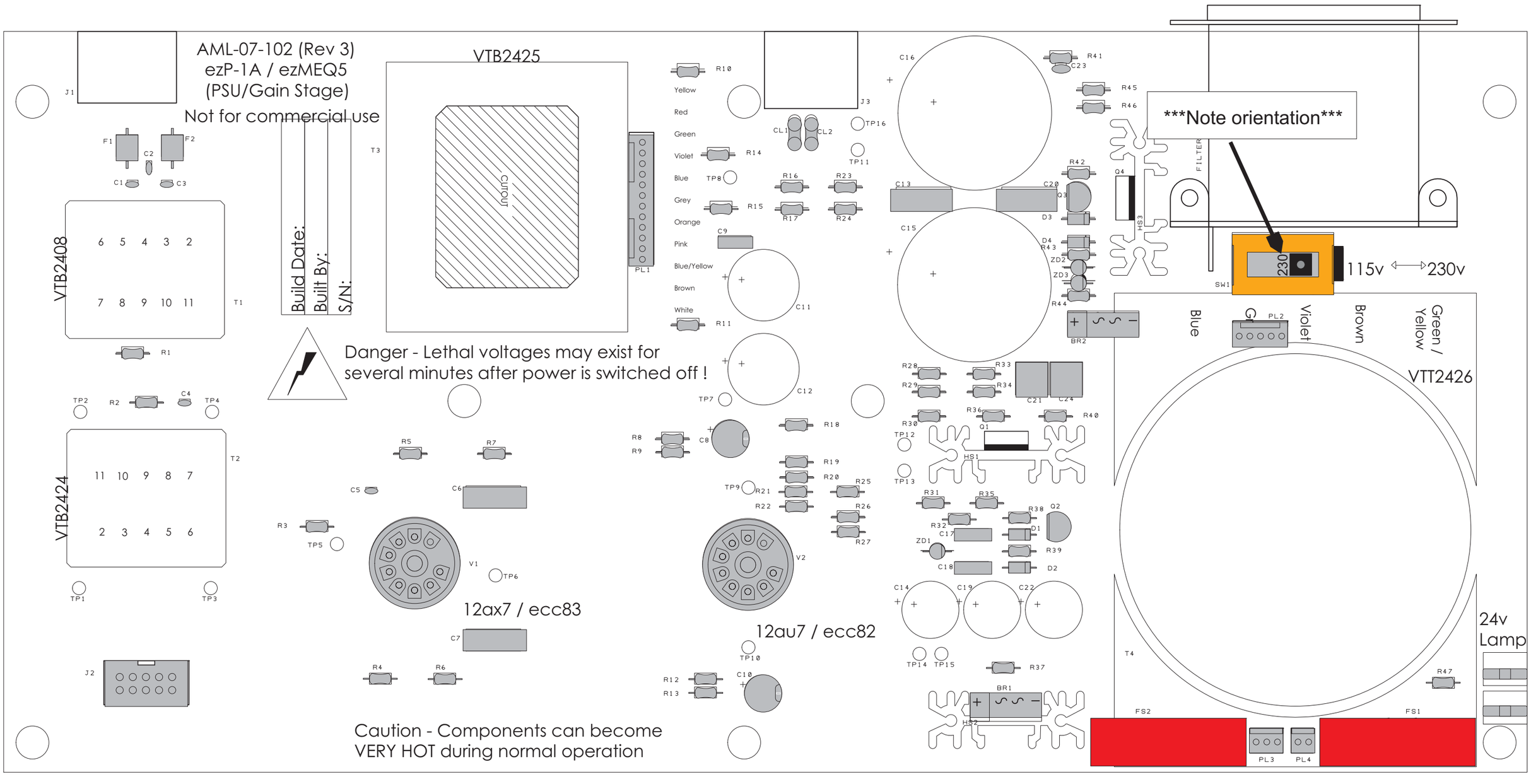
Fit fuses and covers



FS1 = 630mA Anti-surge Fuse (20mm x 5mm)



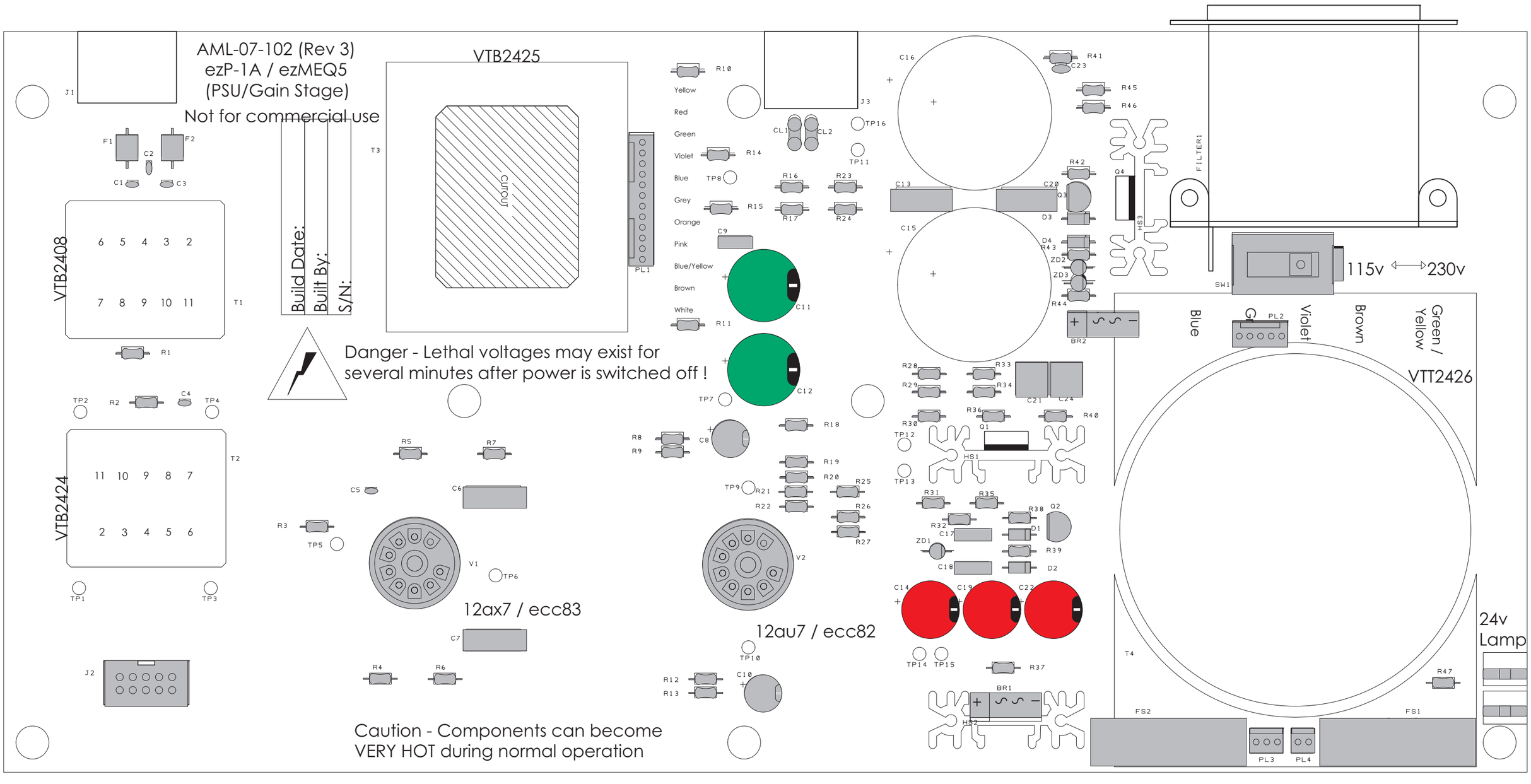
FS2 = 250mA Anti-surge Fuse (32mm x 6.3mm)



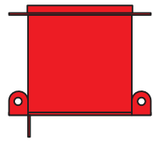
Large Capacitors

C14, C19 & C22 = 1000uF / 16v (3)
Positive terminals towards left

C11 & C12 = 47uF / 450v (2)
Positive terminals towards left



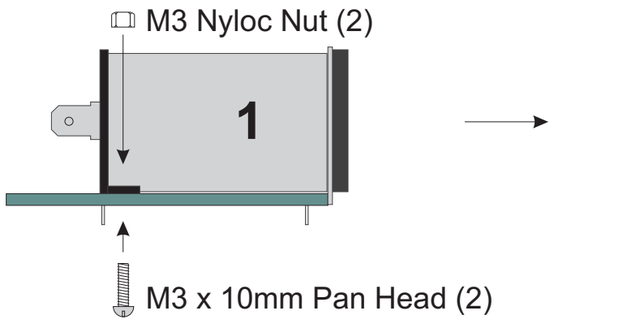
Mains Connector and Mains fuses



FILTER1 = Mains IEC Inlet / filter (1)

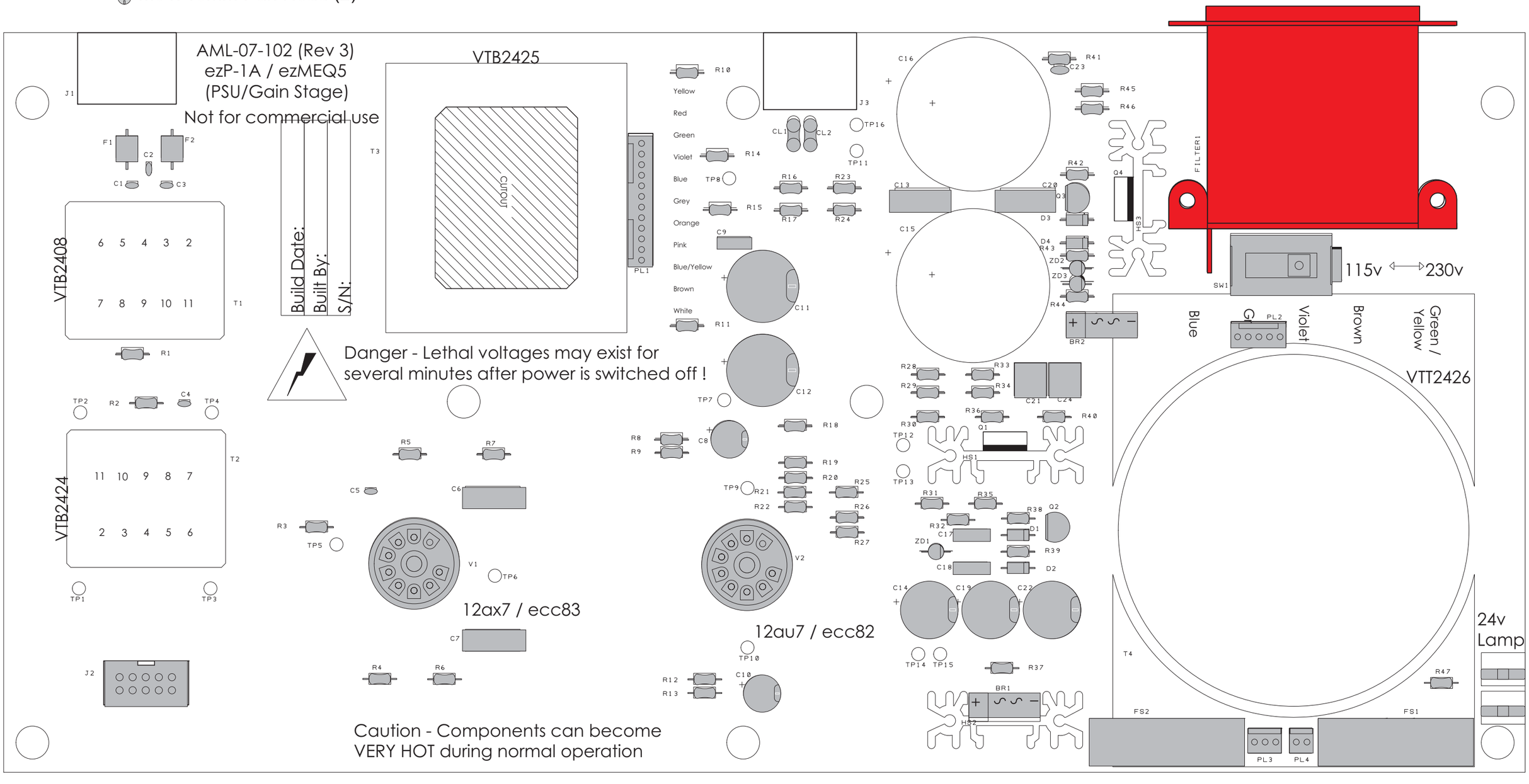
After fitting screws, bend over pins before soldering.

Fit 2 fuses into fuse drawer then insert drawer into IEC inlet.
Fuse drawer has a keyed orientation.
Push hard until it “clicks” home



For 230v operation use
2 x 500mA Anti-surge (20mm x 5mm)

For 110v operation use
2 x 1000mA Anti-surge (20mm x 5mm)

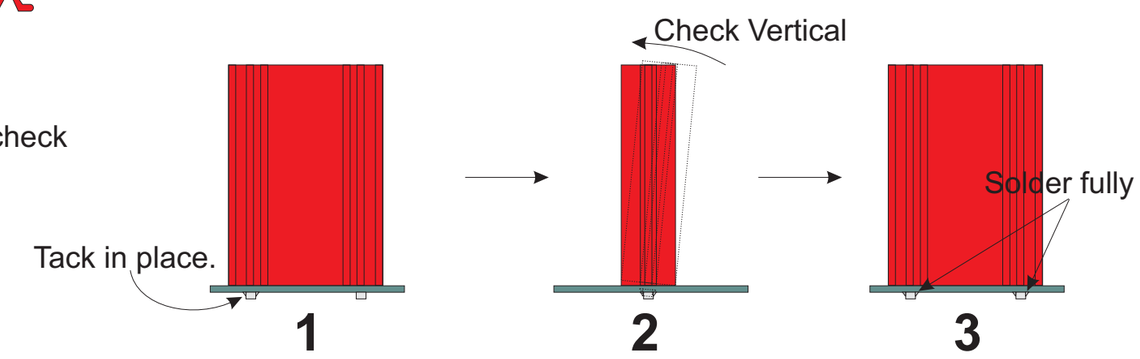


Heatsinks



HS1, HS2 & HS3 = 63mm Heatsink (3)
Using a large soldering iron tip, solder to the PCB.
*** Note orientation ****

Tack in place first then check they are vertical before soldering completely.



AML-07-102 (Rev 3)
ezP-1A / ezMEQ5
(PSU/Gain Stage)
Not for commercial use

VTB2425

VTB2408

VTB2424

VTT2426

Build Date:
Built By:
S/N:

Danger - Lethal voltages may exist for several minutes after power is switched off !

12ax7 / ecc83

12au7 / ecc82

*** Note orientation ***

115v ⟷ 230v

24v Lamp

Blue
Green
Violet
Brown
Green / Yellow

*** Note orientation***

*** Note orientation***

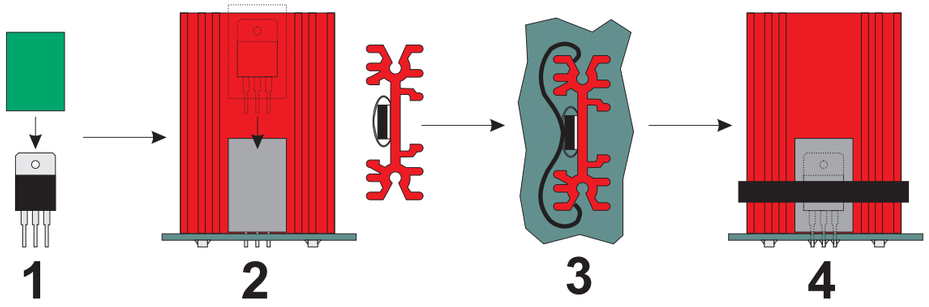
Caution - Components can become VERY HOT during normal operation

Insulators and power transistors

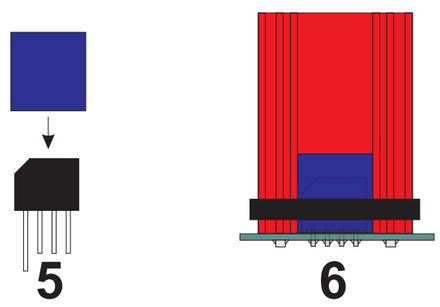
+ Q1 & Q4 = TIP50 (2) + TO220 Insulator (2)

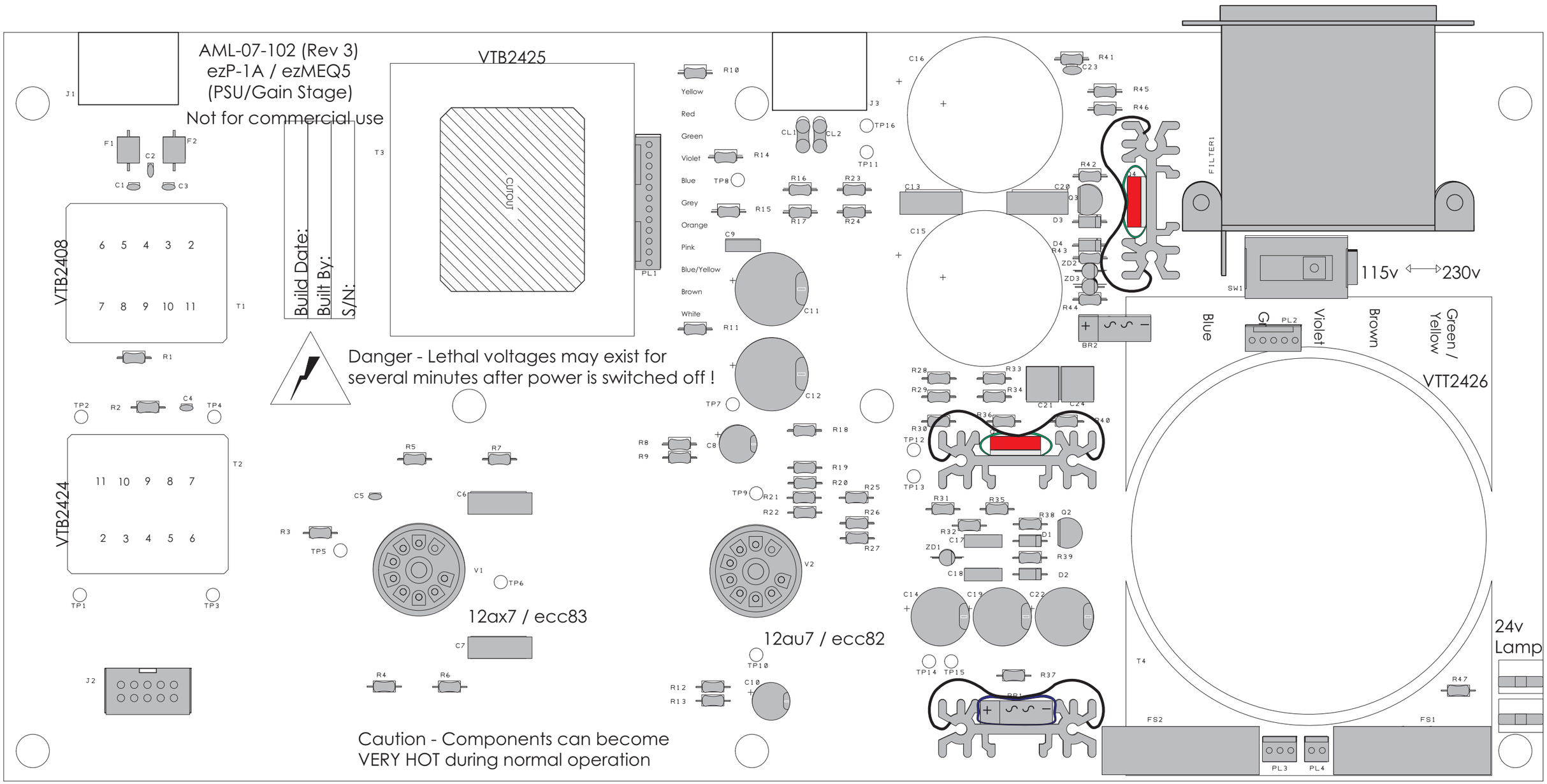
Bridge Rectifier Insulator (1)

Slide the small insulators over the TIP50 transistors, insert transistors into PCB, fit the retaining clips such that the body of the transistor is firmly pressed against the heatsink and then solder transistors.



Slide the large insulator over the bridge rectifier (already installed), fit the retaining clip such that the body of the bridge rectifier is firmly pressed against the heatsink





Large Capacitors and Input transformers

C15 & C16 = 470uF / 400v (2)
Positive terminals towards left

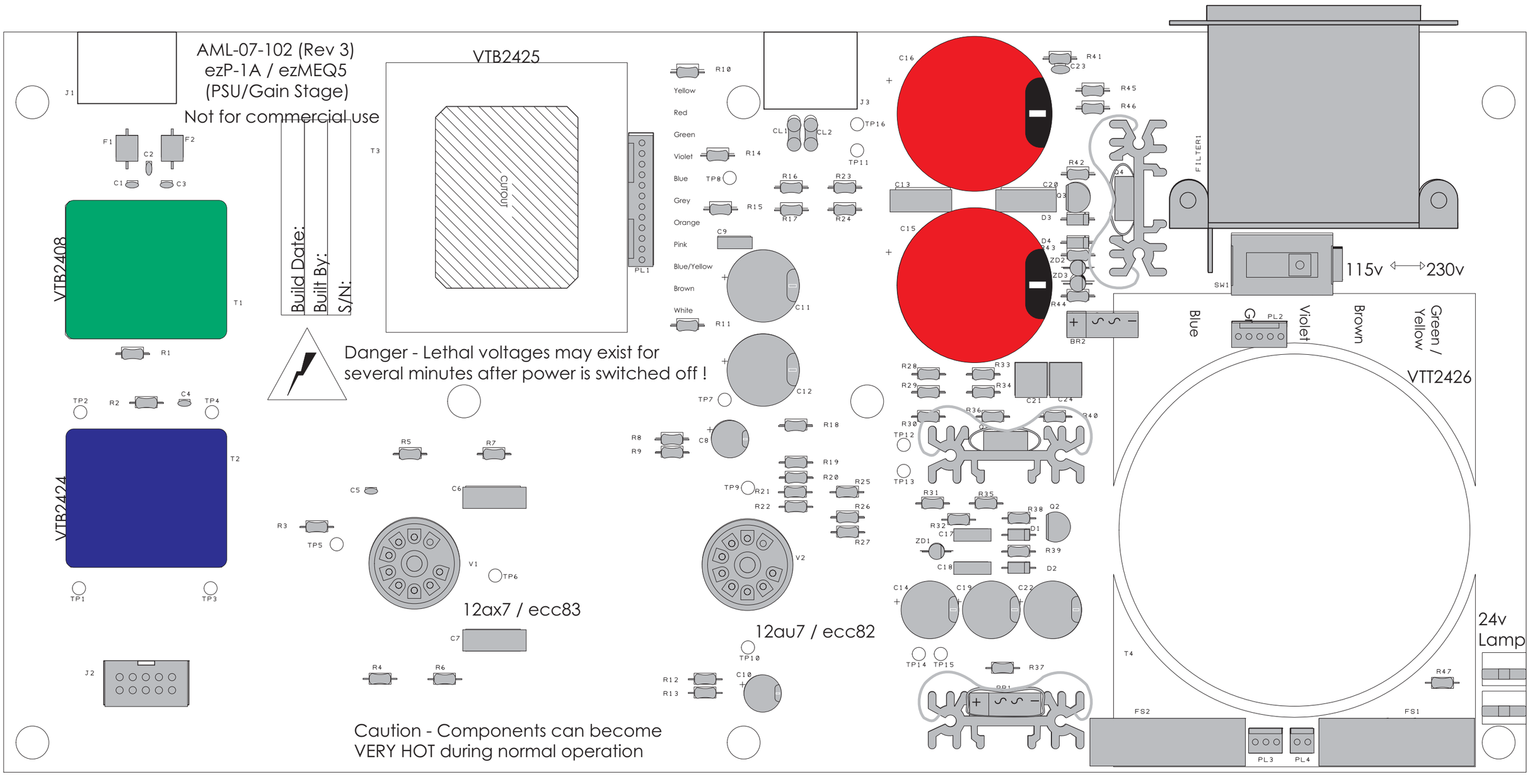
T1 = VTB2408 (1)

T2 = VTB2424 (1)

NOTE ORIENTATION !!!!

Make certain that the pin numbers on the bottom of the transformer coincide with the numbers written on the PCB... These 2 transformers are different ways round from each other.

If possible, lift the transformer about 2mm above the PCB when soldering so that there is a small gap between the transformer and PCB.
This will make the transformer easier to remove if there is a fault.

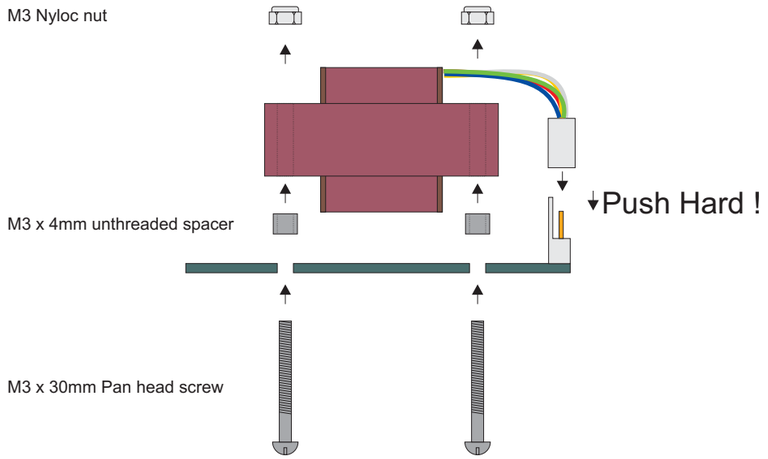


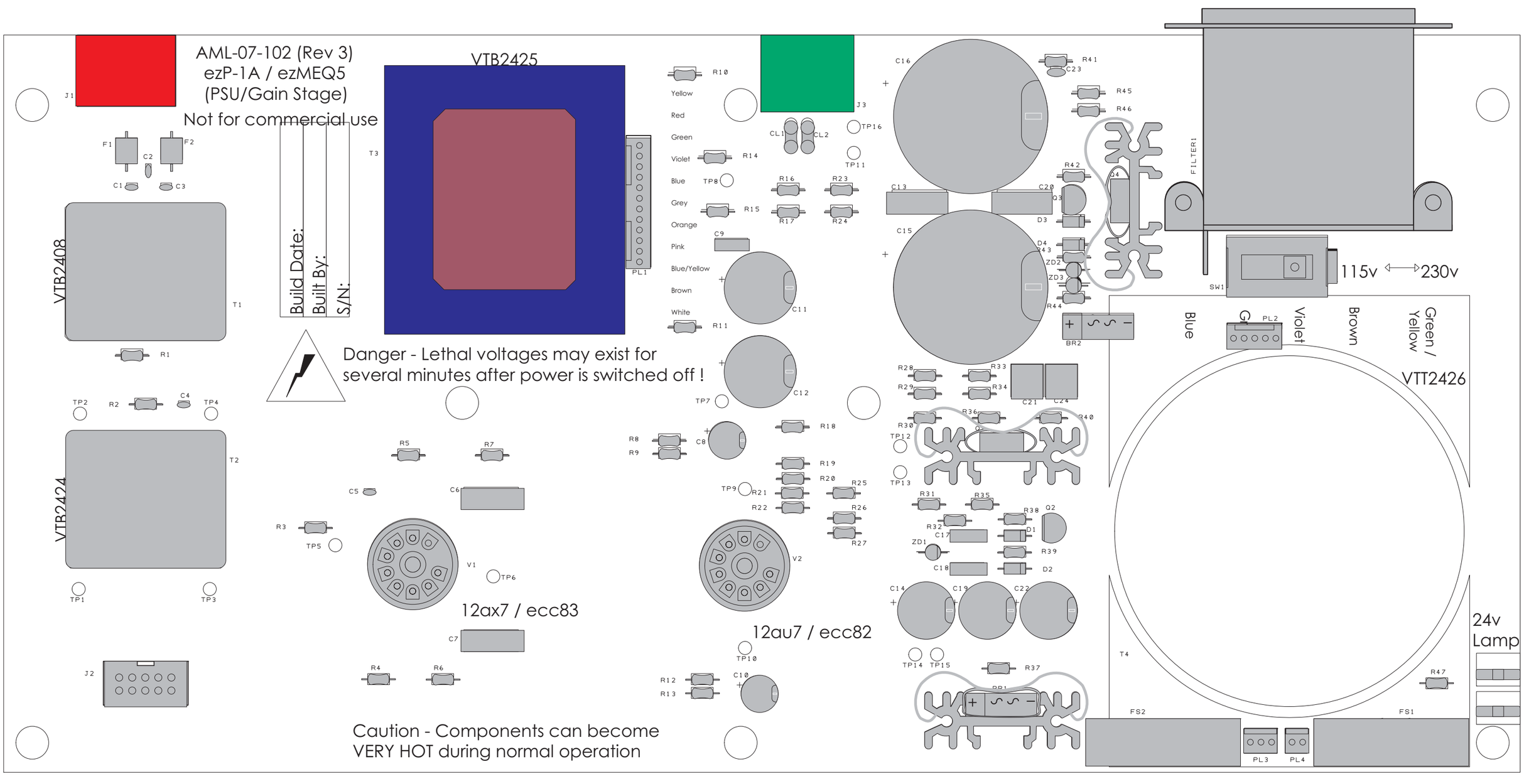
Output transformer and XLR's

J1 = Female XLR (1)

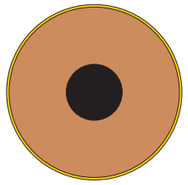
J3 = Male XLR (1)

T3 = VTB2425 (1)

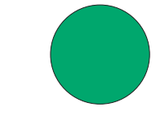




Mains Transformer and Valves



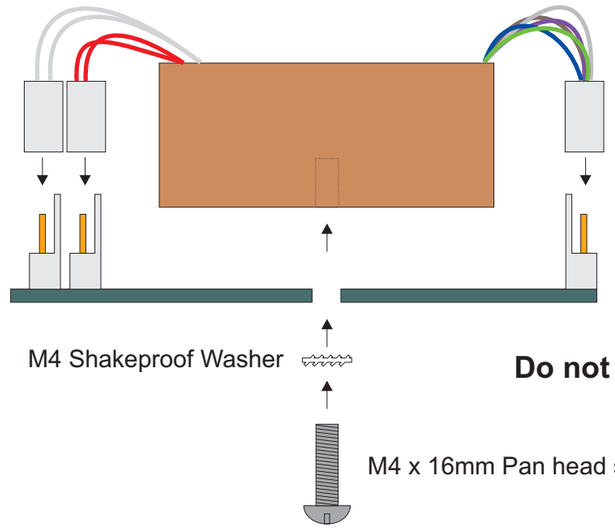
T4 = VTT2426 (1)



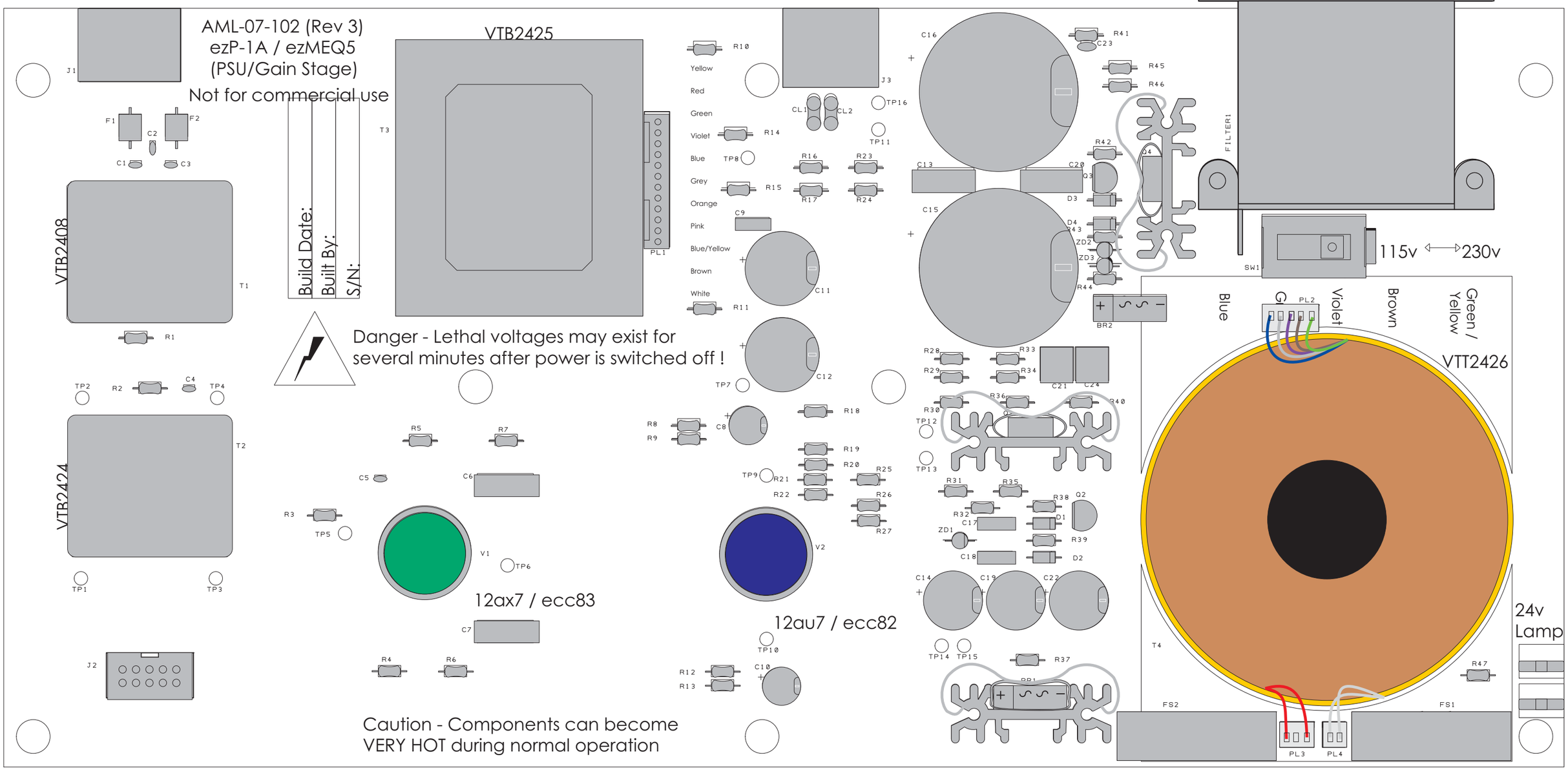
V1 = ECC83 / 12ax7 (1)



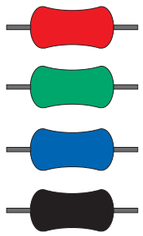
V2 = ECC82 / 12au7 (1)



Do not overtighten the M4 screw at this stage.



Resistors

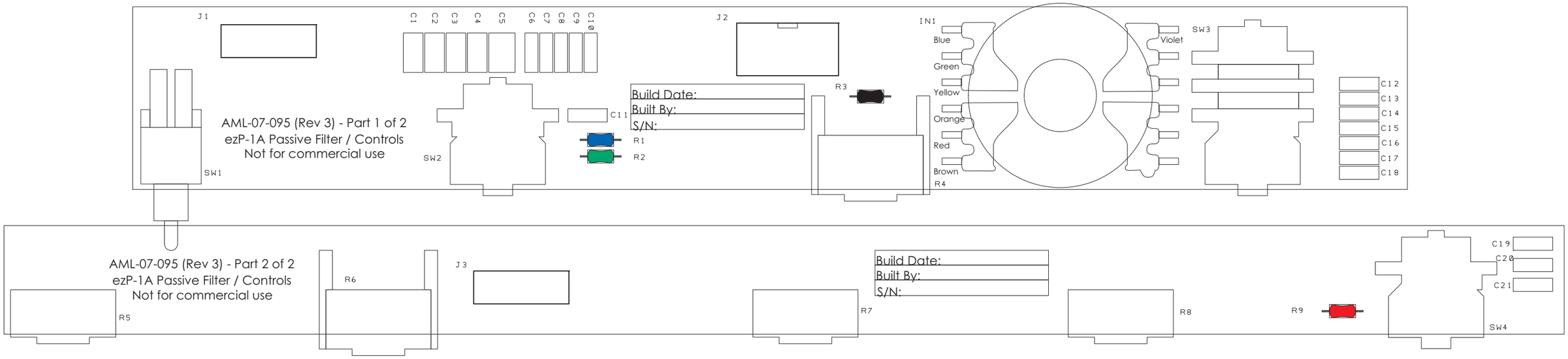


R9 = 75R (1)

R2 = 1k0 (1)

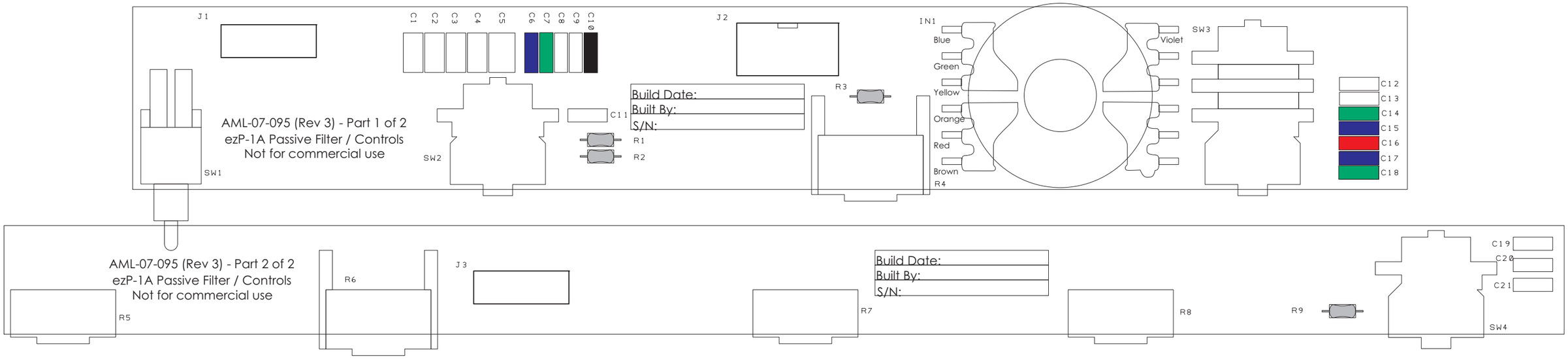
R1 = 10k (1)

R3 = 1M0 (1)



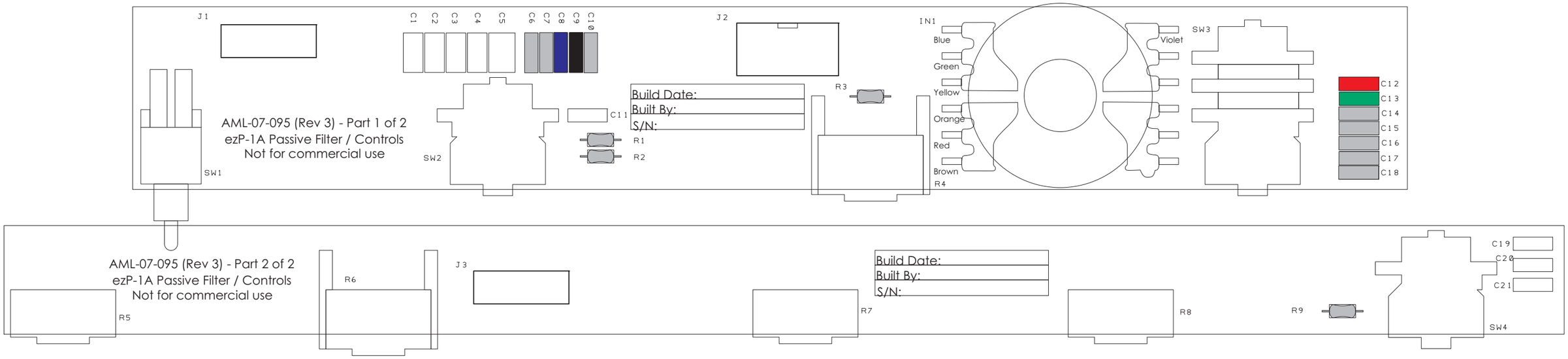
Film Capacitors

- C16 = 1nF (1)
- C7, C14 & C18 = 3n3F (3)
- C6, C15 & C17 = 4n7F (3)
- C10 = 12nF (1)



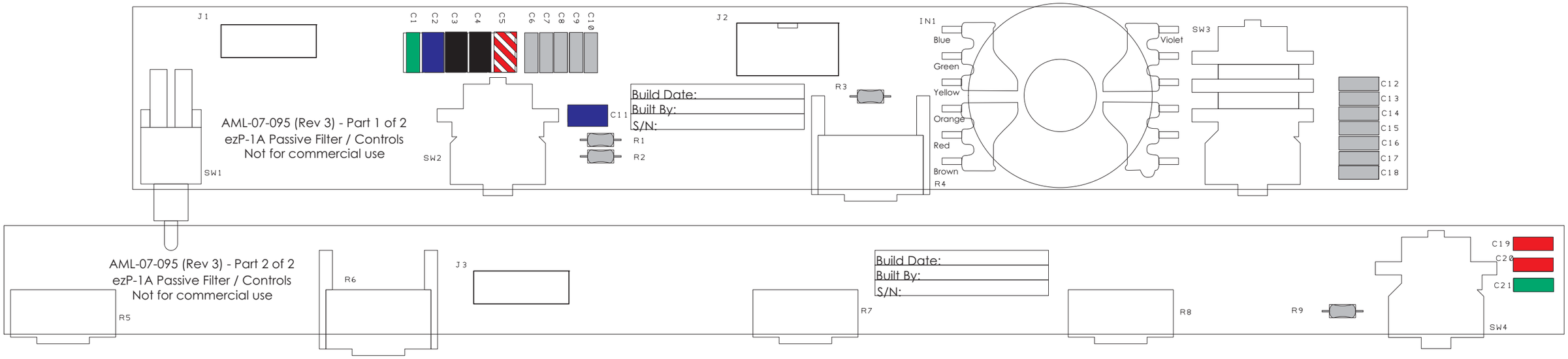
Film Capacitors

- C12 = 15nF (1)
- C13 = 18nF (1)
- C8 = 27nF (1)
- C9 = 56nF (1)



Film Capacitors

- C19 & C20 = 68nF (2)
- C1 & C21 = 220nF (2)
- C2 & C11 = 330nF (2)
- C3 & C4 = 470nF (2)
- C5 = 1uF (1)



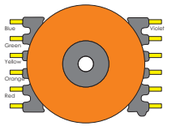
Connectors and Inductor



J2 = 10 Way Box Header (1) *** Note Orientation ***

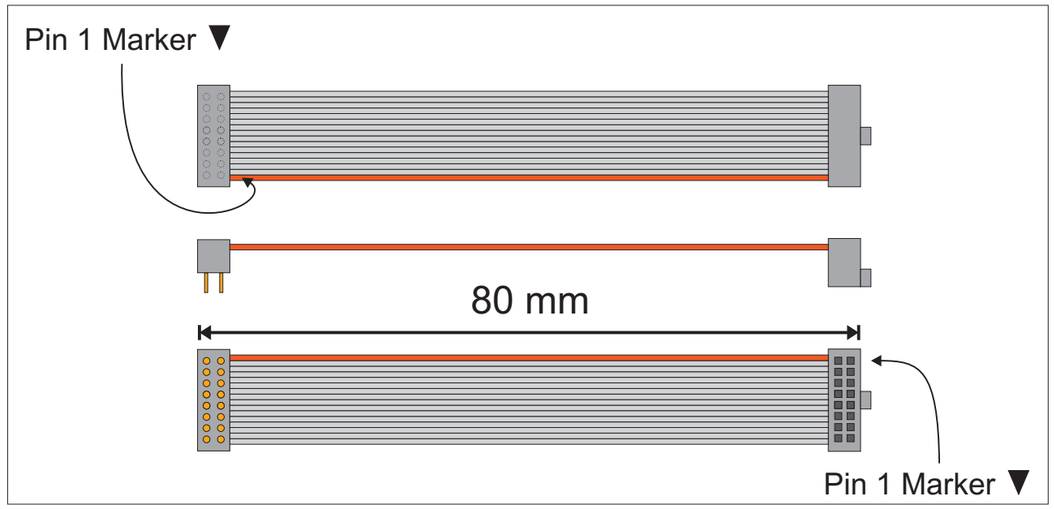


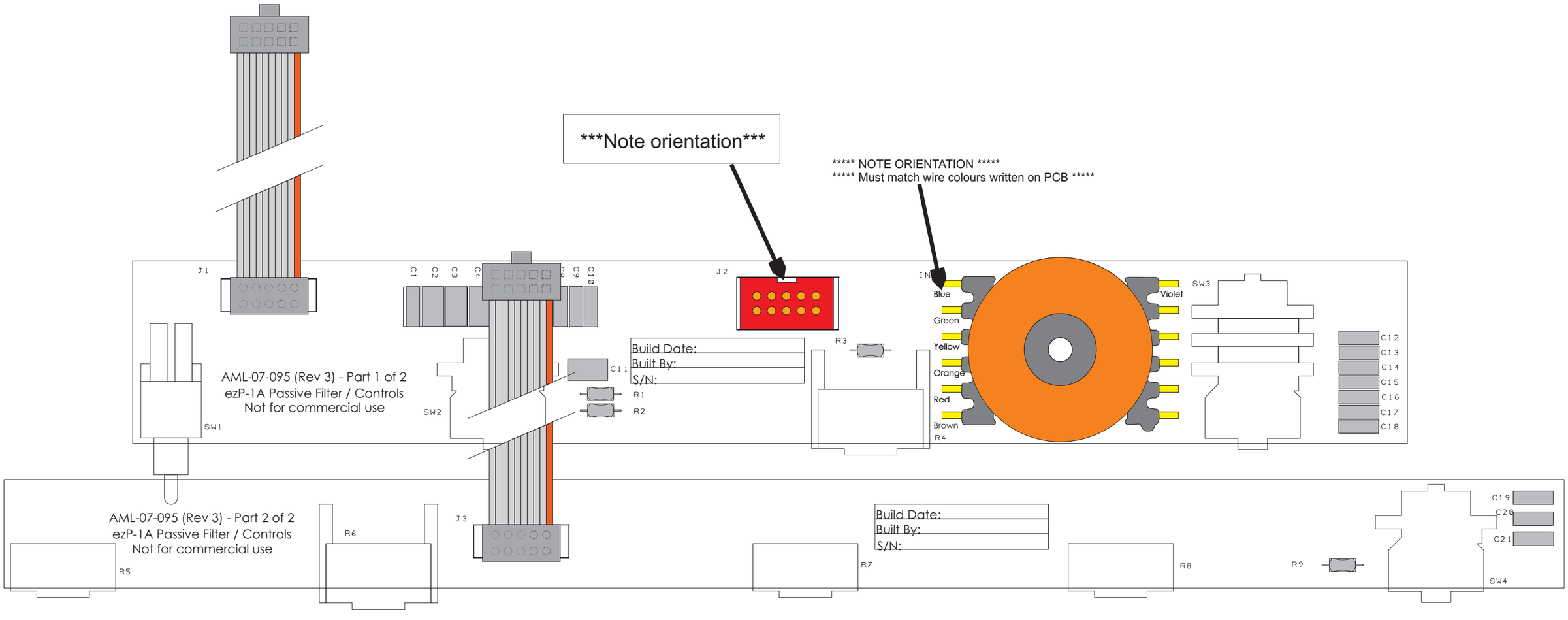
J1 & J3 = 10 Way Ribbon Cable (2)



IN1 = Inductor VTA1444 (1)

***** NOTE ORIENTATION *****
***** Must match wire colours written on PCB *****





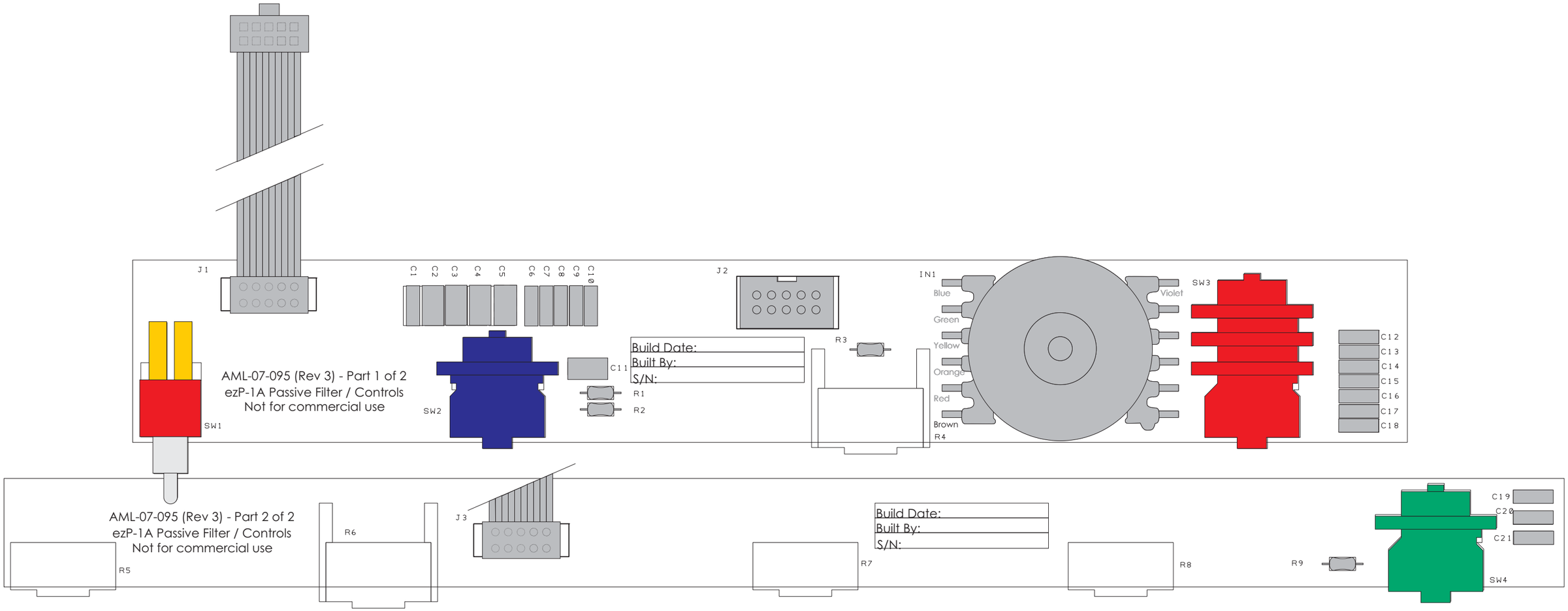
Switches

SW3 = GR-03-001 (1) - 12 position, 1 pole, 3 gang

SW4 = GR-03-002 (1) - 12 position, 1 pole, 1 gang

SW2 = GR-03-003 (1) - 6 position, 2 pole, 1 gang

SW1 = Toggle Switch DPDT



Potentiometers



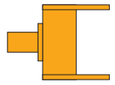
R8 = OM-01-086 (1) - 1k Linear 20mm



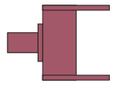
R7 = OM-01-087 (1) - 10k Linear 20mm



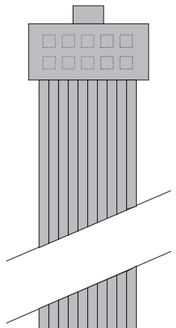
R5 = OM-01-088 (1) - 10k Log 20mm

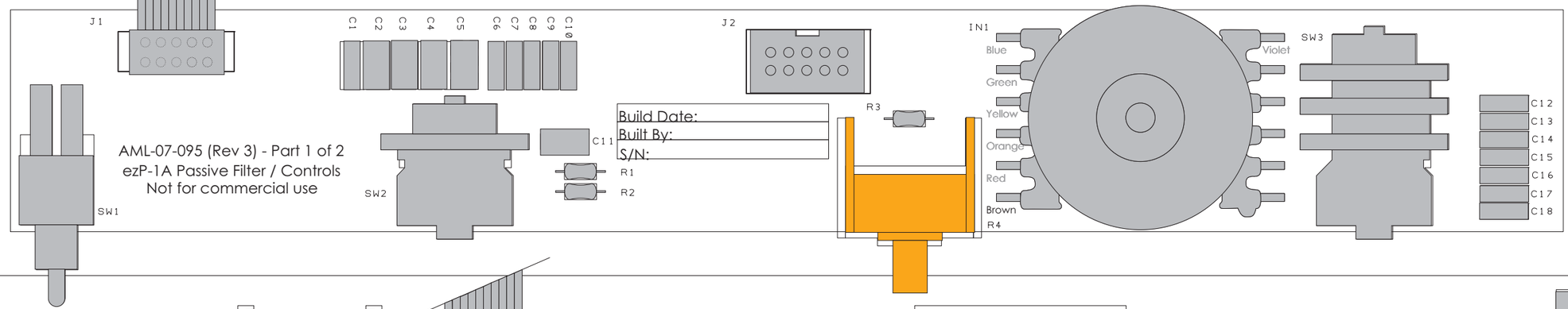


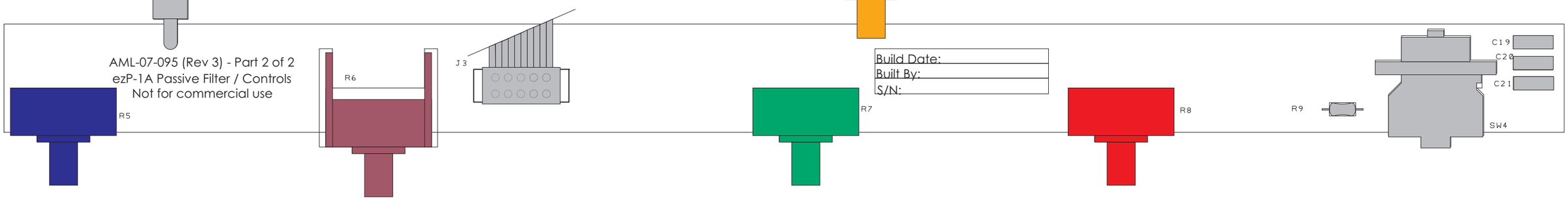
R4 = OM-01-084 (1) - 2k2 Linear 20mm + bracket



R6 = OM-01-085 (1) - 100k Log 20mm + bracket





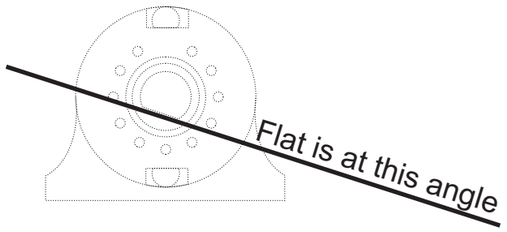


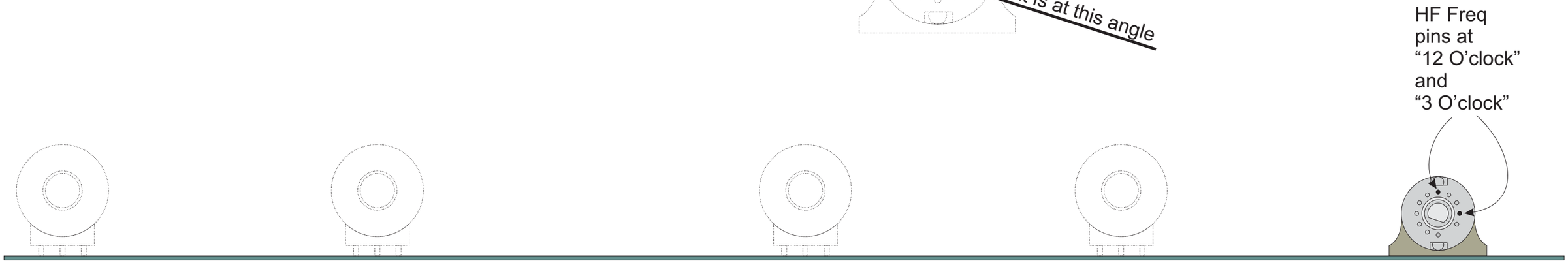
Rotary Switch Adjustment Pins

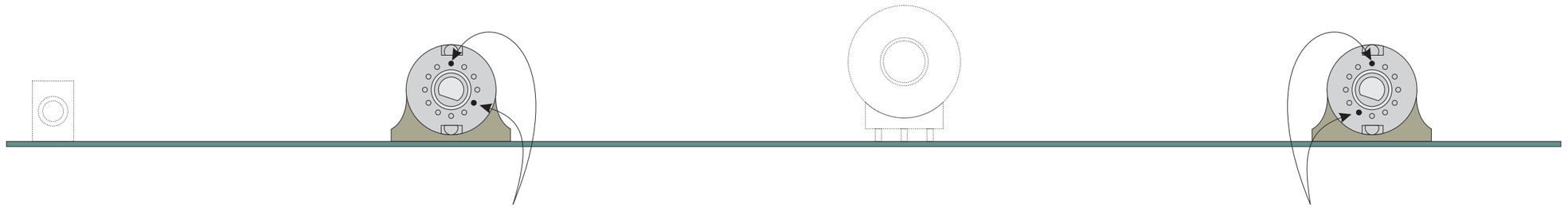
Fit pins in positions shown then apply the self adhesive
silver washers over the pin holes to stop the pins coming out.

**** Make sure the spindles are in the position shown before fitting pins ****

[Just in case they have been accidentally rotated during switch fitting]







Chassis assembly





Fit the 4 angle brackets to the front and rear panels using
1 x flat washer and 1 x plain nut (provided).

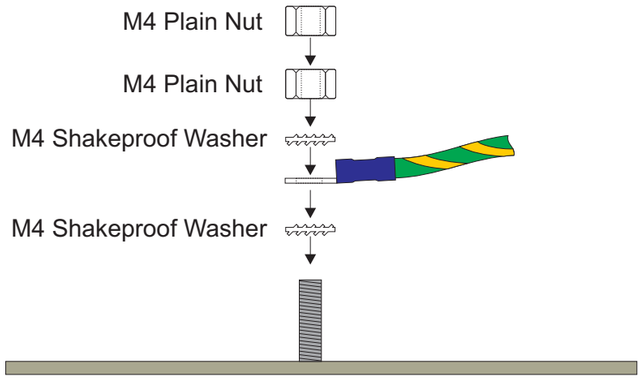
At this stage just fit them “finger tight”.

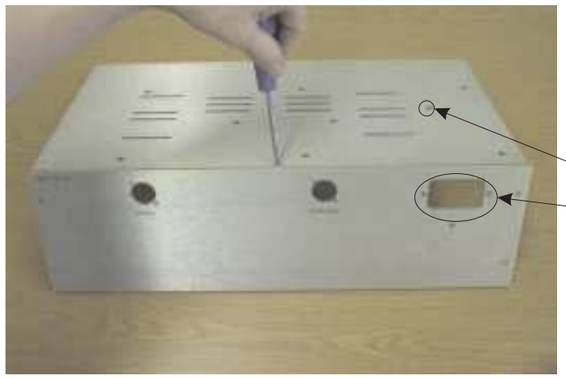




Attach the earth cable to the
captive stud on the rear panel
using 2 x M4 Shakeproof washers
and 2 x M4 plain nuts (provided).

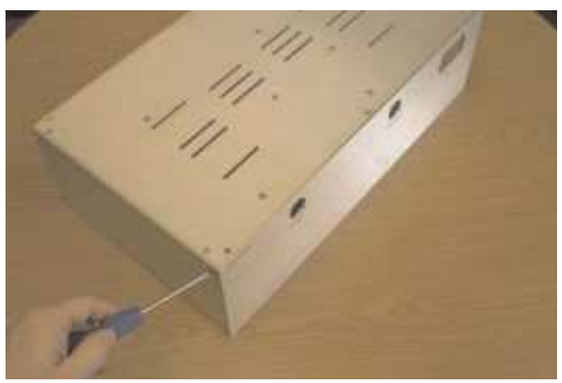
Ensure the first M4 nut is very
tightly fastened before fitting the
second M4 nut tightly.
(This is the safety earth bond)





Fit the base panel to the rear panel using 3 of the chassis screws provided.

Ensure that the transformer adjustment screw hole in the base panel is
at the same side as the IEC inlet hole on the rear panel



Fit the right hand side panel to the rear panel / base panel using 5 of the chassis screws provided.

Chassis assembly





Fit the Main PCB into the chassis and secure with one M3 x 10 SEMS screw.

Just fit the screw loosely at this stage.





Secure the XLRs to the rear panel using the 4 screws provided. Do not overtighten.
(Push the XLR’s firmly against the rear panel while installing screws)

Secure the IEC inlet to the rear panel using
the 2 x M3 x 10mm screws and 2 x M3 Nyloc nuts provided.





Secure the Main PCB into the chassis using the remaining 7 x M3 x 10 SEMS screws.

Tighten all these screws up fully now.

Push the spade connector of the earth cable onto the exposed terminal of the IEC inlet.

Make certain it is fully pushed on and is a tight fit. This is a safety earth connection.



Fit the left hand side panel to the rear panel / base panel using 5 of the chassis screws provided.

Chassis assembly





Solder the lamp cable to the lamp holder

Install the 24v lamp





Install the lamp assembly into the front panel.





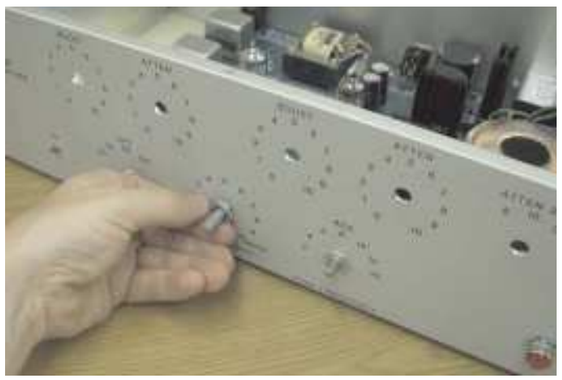
Fit the faceplate to the rear panel / side panels using 9 of the chassis screws provided.

Lay the assembly on a flat surface and tighten all the screws, then tighten the nuts which secure the angle brackets to the front and rear panels.

Plug the spade connectors of the lamp cable onto the spade terminals.

Stick the 4 self adhesive rubber feet to the base panel.





Place a shakeproof pot washer on the pot and
a shakeproof switch washer on each of the rotary switches.

Install the lower front panel PCB and secure with the pot/switch nuts.

Chassis assembly



Insert the ribbon cable from the lower faceplate PCB into the main PCB.





Place a shakeproof pot washer on each of the pots
and a shakeproof switch washer on the rotary switch.

Install the upper front panel PCB and secure with the pot/switch nuts.

Insert the ribbon cable from the upper faceplate PCB into the lower faceplate PCB.



Fit the knobs.

(Tip - turn all the pots fully counter-clockwise before starting, then start at the lower left hand side, do the bottom row first).

Fit the lid using the remaining chassis screws ..... However....
You may wish to adjust the mains transformer for minimum noise floor before fitting the lid.
Tighten the mains transformer securing screw through the hole in the base panel.

PL1

Yellow
Red
Green
Violet
Blue
Grey
Orange
Pink
Blue/Yellow
Brown
White

VTB2425
(Molex KK option)

J1
Neutrik 3 Pin XLR - Female

VTB2408
(600R:600R)

T1

F2
F1
C3 220pF
C2 47pF
C1 220pF
R1 620R

Chassis Ground

Passive
Equaliser
Circuit

TP1
TP3

VTB2424
(20k:80k)

T2

TP4
TP2

C4 270pF
R2 43k

V1a
V1c

R3 820R
C5 22pF

TP7

R7 100k
R5 100k
R4 100k
R6 100k
C12 47uF/400v

C6 270nF/250v
C7 270nF/250v

R21 100k
R25 100k
R27 120k
R26 150k

TP9
R22 1M0
R19 1M0
R20 62k
TP10

V2a
V2c

R8 2k7
R9 2k0
R12 2k0
R13 2k7
C8 47uF/63v
C10 47uF/63v

C11 47uF/400v

TP8

VTB2425
(15k:600R:24R)

T3

Green
Brown
Blue

Pink
Grey
Blue/Yellow
White
Yellow
Violet
Red
Orange

C9 3n3F
R11 620R
R10 360R
R14 1k0
R15 360R

CL1
CL2

J3
Neutrik 3 Pin XLR - Male

Chassis Ground

TP11
R18 47k
R23 2k2
R24 2k2
R16 2k2
R17 2k2
+325v

TP16
Analogue Ground

TP5
Heater Feed

V2b
V1b

TP6
Heater Return

Audio Maintenance Limited
E-Mail: service@audiomaintenance.com

Title
Pultec Gain Stage

Number
AML-07-102

Rev
3

Date 4th July 2013
Drawn by C Adshead
File AML-07-102 - rev2
Sheet 1 of 2

Faceplate To Main Board

Main Card
J2

Analog Gnd		Passive in Hot
Analog Gnd		Analog Gnd
Analog Gnd		Passive out Hot
Analog Gnd		Analog Gnd
Analog Gnd		Analog Gnd

VTT2426
(Molex KK option)

PL2

Green/Yellow
Brown
Violet
Grey
Blue

PL3

Red
Red

PL4

White
White

FILTER1

115v ⟷ 230v

SW1

VTT2426

T4

Brown
0-120
115v ac
Violet

Red
200v
270v ac
Red

Grey
0-120
115v ac
Blue

White
6.3v
14.0v ac
White

Green/Yellow

FS2
100mA A/S

FS1
500mA A/S

BR2

R44
0R

C15
470uF / 400v

+390v DC

D3
IN4007

HS3

Q4
TIP50

R43
47k

D4
IN4007

Q3
KSP44

R42
1k

C20
100nF / 400v

ZD2
160v / 3W

ZD3
180v / 3W

C13
100nF / 400v

R46
620R

R45
620R

+335v DC

TP12

C16
470uF / 400v

R30
120k

R36
150k

Heater Offset
(~60v)

R40
62k

C21
1uF / 63v

C24
1uF / 63v

R29
100k

R28
100k

R34
100k

R33
100k

+325v

Analogue Ground

TP13

BR1

HS2

R37
0R

C22
1000uF / 35v

+19v DC

R39
360R

D2
IN4007

Q2
KSP44

C18
100nF / 63v

ZD1
15v / 3W

D1
IN4007

HS1

Q1
TIP50

R38
1k

C17
100nF / 63v

+12.6v DC
(above heater offset)

TP14

R35
1R0

R32
1R0

R31
1R0

C19
1000uF / 35v

C14
1000uF / 35v

Heater Feed

Heater Return

TP15

R41
10R

C23
100nF

Analogue Ground

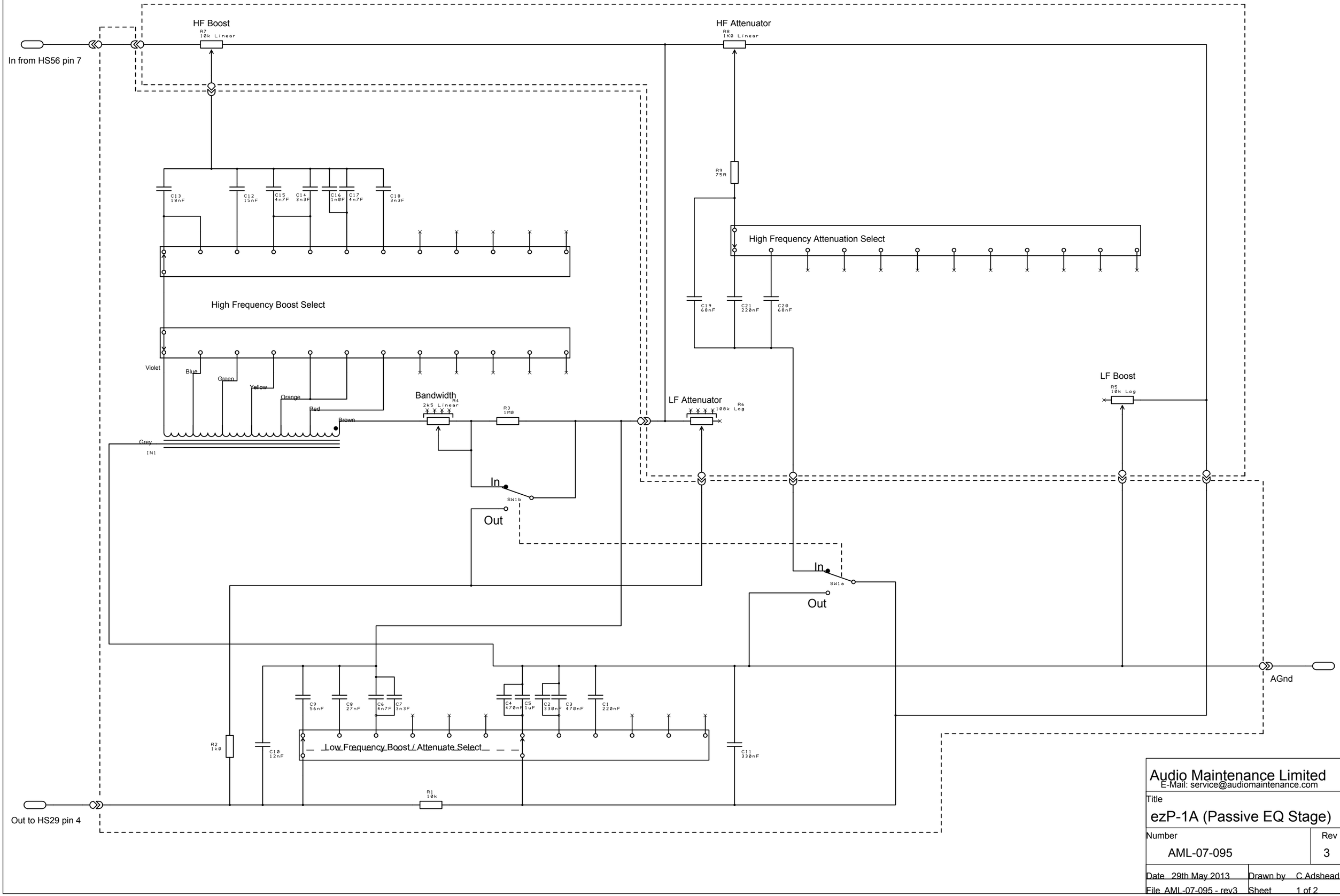
R47
0R

Audio Maintenance Limited
E-Mail: service@audiomaintenance.com

Title
Pultec Gain Stage - PSU

Number	Rev
AML-07-102	3

Date 4th July 2013	Drawn by C Adshead
File AML-07-102 - rev2	Sheet 2 of 2



Audio Maintenance Limited
E-Mail: service@audiomaintenance.com

Title
ezP-1A (Passive EQ Stage)

Number	Rev
AML-07-095	3

Date 29th May 2013	Drawn by C Adshead
File AML-07-095 - rev3	Sheet 1 of 2

Faceplace Interconnect

Lower Switch Card J2

SUB Switches AGnd	Passive in Hot - switches
SUB Switches AGnd	HFB Cap Common
SUB Switches AGnd	IF Attenuator Bottom - to switches
SUB Switches AGnd	LF Attenuator Wiper - to Switches
HF Attenuator to IO switch	HF Attenuator to IO switch - common

Ribbon Link

Ribbon Link

SUB Upper Pots AGnd	HF Boost In
SUB Upper Pots AGnd	HF Boost Wiper
SUB Upper Pots AGnd	LF Attenuator Bottom
SUB Upper Pots AGnd	LF Attenuator Wiper
HF Attenuator Switch Cap Common	LF Boost Bottom

Upper Pot Card J3

SUB Switches AGnd	Passive in Hot - switches
SUB Switches AGnd	SUB Switches AGnd
SUB Switches AGnd	Passive out Hot - switches
SUB Switches AGnd	SUB Switches AGnd
SUB Switches AGnd	SUB Switches AGnd

Lower Switch Card J1

Audio Maintenance Limited
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Title
ezP-1A (Passive EQ Stage)

Number	Rev
AML-07-095	3

Date 29th May 2013	Drawn by C Adshead
File AML-07-095 - rev3	Sheet 2 of 2

AML-07-102 (Rev 3)
ezP-1A / ezMEQ5
(PSU/Gain Stage)

Not for commercial use

VTB2425

VTB2408

VTB2424

Build Date:
Built By:
S/N:

Danger - Lethal voltages may exist for
several minutes after power is switched off !

Caution - Components can become
VERY HOT during normal operation

12ax7 / ecc83

12au7 / ecc82

VTT2426

115v ⟷ 230v

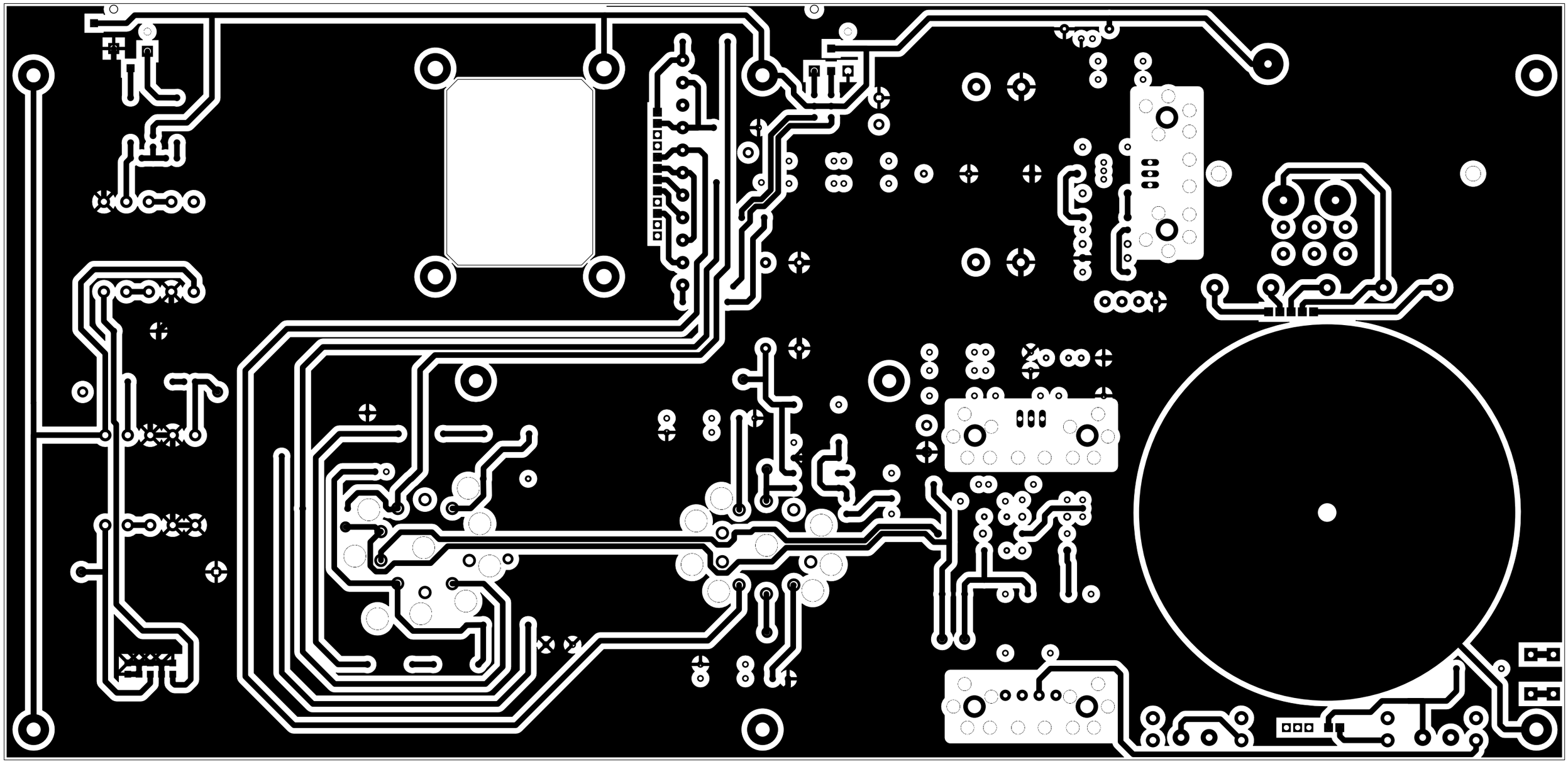
24v
Lamp

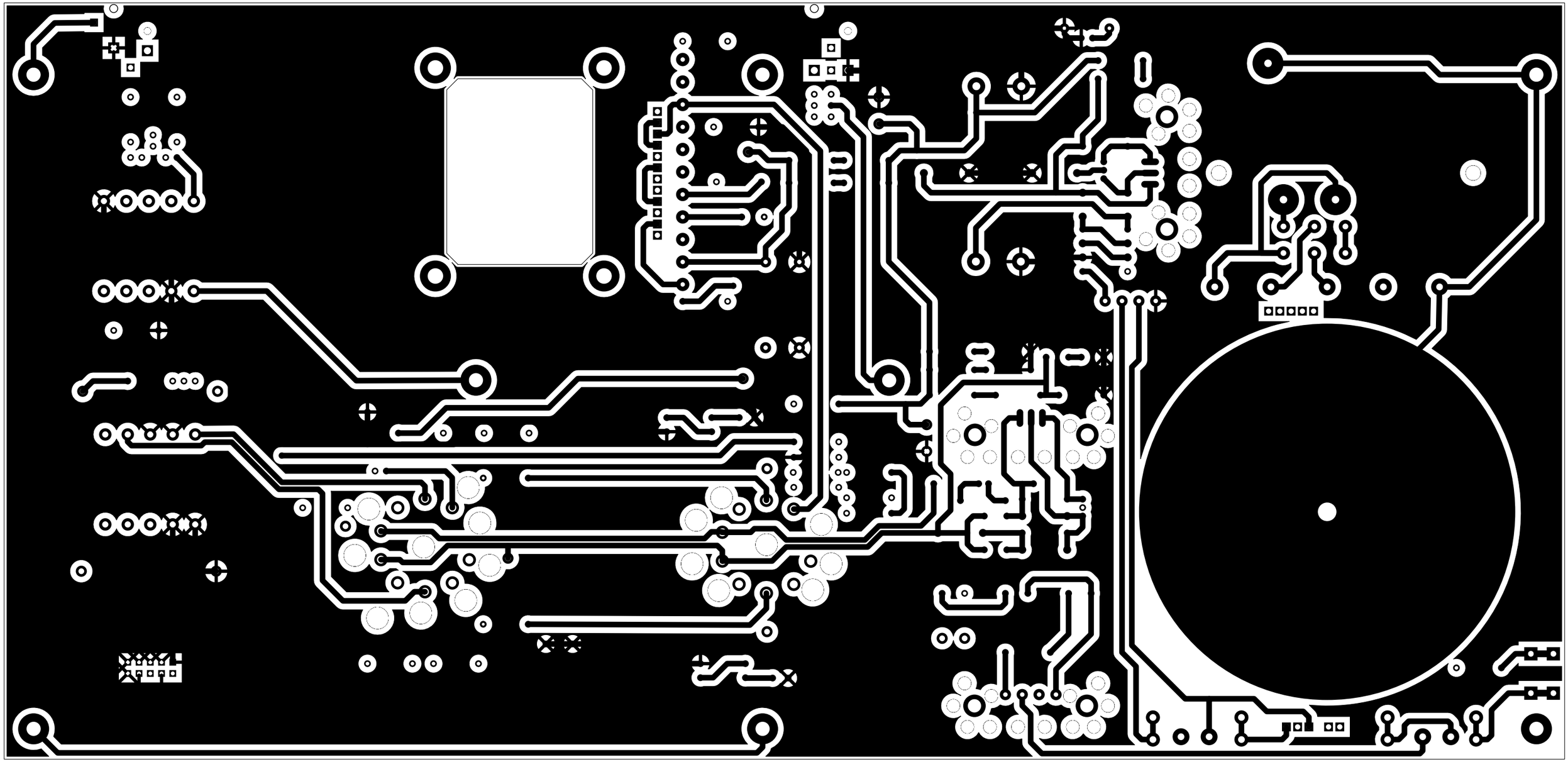
Yellow
Red
Green
Violet
Blue
Grey
Orange
Pink
Blue/Yellow
Brown
White

Blue
Grey
Violet
Brown
Green /
Yellow

Red
Red

White
White





J1

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10

J2

IN1

Blue

Green

Yellow

Orange

Red

Brown

Violet

SW3

C12 C13 C14 C15 C16 C17 C18

AML-07-095 (Rev 3) - Part 1 of 2
ezP-1A Passive Filter / Controls
Not for commercial use

Build Date:
Built By:
S/N:

SW1

SW2

C11

R1

R2

R3

R4

C19 C20 C21

SW4

AML-07-095 (Rev 3) - Part 2 of 2
ezP-1A Passive Filter / Controls
Not for commercial use

Build Date:
Built By:
S/N:

J3

R5

R6

R7

R8

R9

