



SERVICE MANUAL

MODEL TYPE: YS1042
U15P

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Quality and Innovation Since 1963
Printed in Canada

IMPORTANT SAFETY INSTRUCTIONS



This lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Ce symbole d'éclair avec tête de flèche dans un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'un « voltage dangereux » non-isolé à proximité de l'enceinte du produit qui pourrait être d'ampleur suffisante pour présenter un risque de choc électrique.



CAUTION AVIS

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

**RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR**



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'instructions importantes dans la littérature accompagnant l'appareil en ce qui concerne l'opération et la maintenance de cet appareil.

FOLLOW ALL INSTRUCTIONS

**Instructions pertaining to a risk of fire,
electric shock, or injury to a person**

**CAUTION: TO REDUCE THE RISK OF ELECTRIC
SHOCK, DO NOT REMOVE COVER (OR BACK).**

NO USER SERVICEABLE PARTS INSIDE.

**REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.**

SUIVEZ TOUTES LES INSTRUCTIONS

**Instructions relatives au risque de feu,
choc électrique, ou blessures aux personnes**

**AVIS: AFIN DE REDUIRE LES RISQUE DE CHOC
ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE
PANNEAU ARRIERE) NE CONTIENT AUCUNE PIECE**

REPARABLE PAR L'UTILISATEUR.

**CONSULTEZ UN TECHNICIEN QUALIFIE
POUR L'ENTRETIEN**

Read Instructions: The Owner's Manual should be read and understood before operation of your unit. Please, save these instructions for future reference and heed all warnings.

Clean only with dry cloth.

Packaging: Keep the box and packaging materials, in case the unit needs to be returned for service.

Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. *Do not use this apparatus near water!*

Warning: When using electric products, basic precautions should always be followed, including the following:

Power Sources

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated. An apparatus with CLASS I construction shall be connected to a Mains socket outlet with a protective earthing ground. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Hazards

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. Only use attachments/accessories specified by the manufacturer

Note: Prolonged use of headphones at a high volume may cause health damage on your ears.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

Ensure that proper ventilation is provided around the appliance. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

Power Cord

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. The AC supply cord should be routed so that it is unlikely that it will be damaged. Protect the power cord from being walked on or pinched particularly at plugs. If the AC supply cord is damaged DO NOT OPERATE THE UNIT. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle. The mains plug of the power supply cord shall remain readily operable.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Service

The unit should be serviced only by qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Veillez Lire le Manuel: Il contient des informations qui devraient être comprises avant l'opération de votre appareil. Conservez. Gardez S.V.P. ces instructions pour consultations ultérieures et observez tous les avertissements.

Nettoyez seulement avec le tissu sec.

Emballage: Conservez la boîte au cas où l'appareil devait être retourner pour réparation.

Avertissement: Pour réduire le risque de feu ou la décharge électrique, n'exposez pas cet appareil à la pluie ou à l'humidité. *N'utilisez pas cet appareil près de l'eau!*

Attention: Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

Alimentation

L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent être prises afin d'éviter que le système de mise à la terre de l'appareil ne soit désengagé. Un appareil construit selon les normes de CLASS I devrait être raccordé à une prise murale d'alimentation avec connexion intacte de mise à la masse. Lorsqu'une prise de branchement ou un coupleur d'appareils est utilisée comme dispositif de débranchement, ce dispositif de débranchement devra demeurer pleinement fonctionnel avec raccordement à la masse.

Risque

Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant. Utilisez seulement les attachments/accessoires indiqués par le fabricant

Note: L'utilisation prolongée des écouteurs à un volume élevé peut avoir des conséquences néfastes sur la santé sur vos oreilles. .

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appareil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Assurez que l'appareil est fourni de la propre ventilation. Ne procédez pas à l'installation près de source de chaleur tels que radiateurs, registre de chaleur, fours ou autres appareils (incluant les amplificateurs) qui produisent de la chaleur.

Les dispositifs marqués d'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connexion extérieure doivent être effectués par un opérateur formé ou en utilisant des cordons déjà préparés.

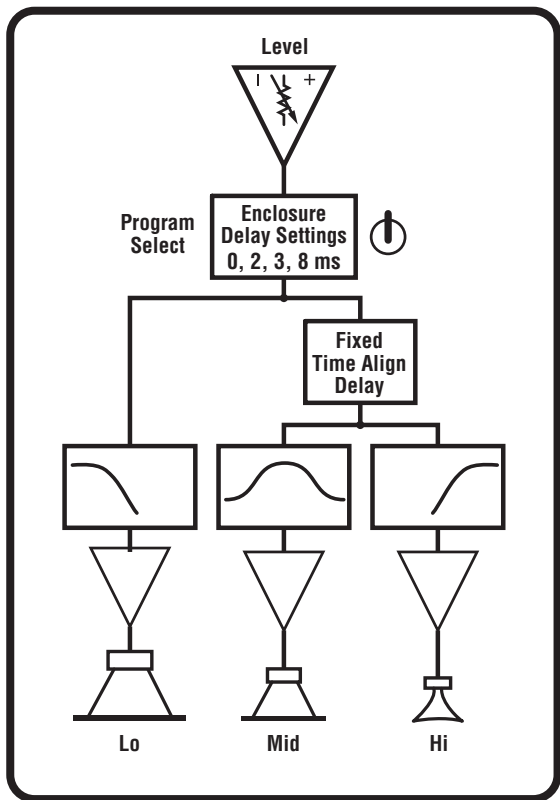
Cordon d'Alimentation

Ne pas enlever le dispositif de sécurité sur la prise polarisée ou la prise avec tige de mise à la masse du cordon d'alimentation. Une prise polarisée dispose de deux lames dont une plus large que l'autre. Une prise avec tige de mise à la masse dispose de deux lames en plus d'une troisième tige qui connecte à la masse. La lame plus large ou la tige de mise à la masse est prévu pour votre sécurité. La prise murale est désuète si elle n'est pas conçue pour accepter ce type de prise avec dispositif de sécurité. Dans ce cas, contactez un électricien pour faire remplacer la prise murale. Évitez d'endommager le cordon d'alimentation. Protégez le cordon d'alimentation. Assurez-vous qu'on ne marche pas dessus et qu'on ne le pince pas en particulier aux prises. **N'UTILISEZ PAS L'APPAREIL** si le cordon d'alimentation est endommagé. Pour débrancher complètement cet appareil de l'alimentation CA principale, déconnectez le cordon d'alimentation de la prise d'alimentation murale. Le cordon d'alimentation du bloc d'alimentation de l'appareil doit demeurer pleinement fonctionnel.

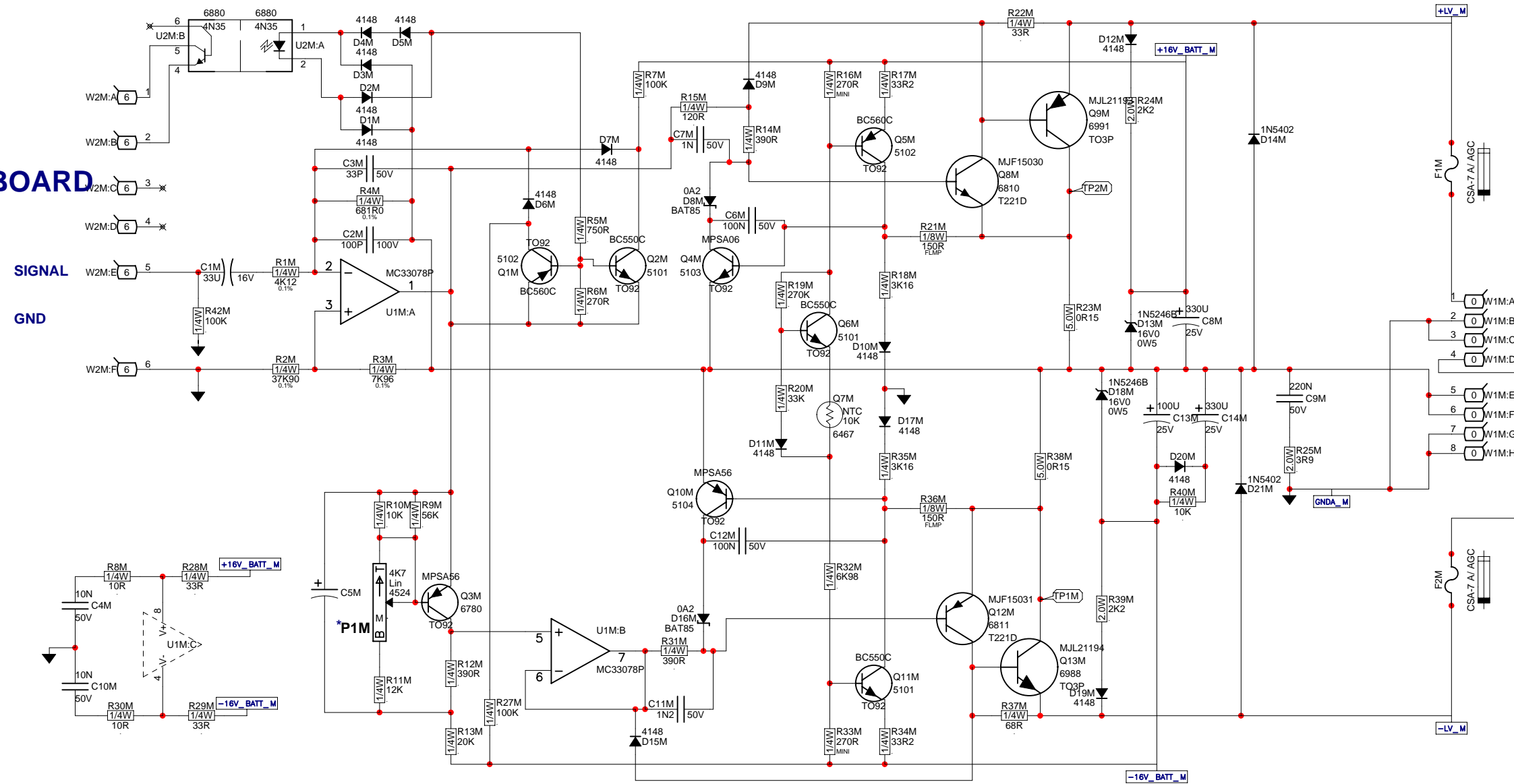
Débranchez cet appareil durant les orages ou si inutilisé pendant de longues périodes.

Service

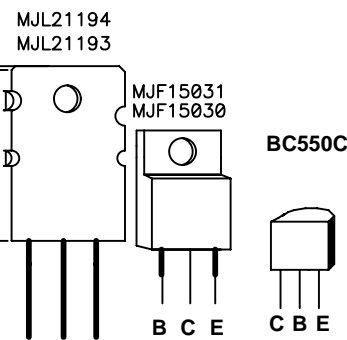
Consultez un technicien qualifié pour l'entretien de votre appareil. L'entretien est nécessaire quand l'appareil a été endommagé de quelque façon que se soit. Par exemple si le cordon d'alimentation ou la prise du cordon sont endommagés, si il y a eu du liquide qui a été renversé à l'intérieur ou des objets sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, si il ne fonctionne pas normalement, ou a été échappé.



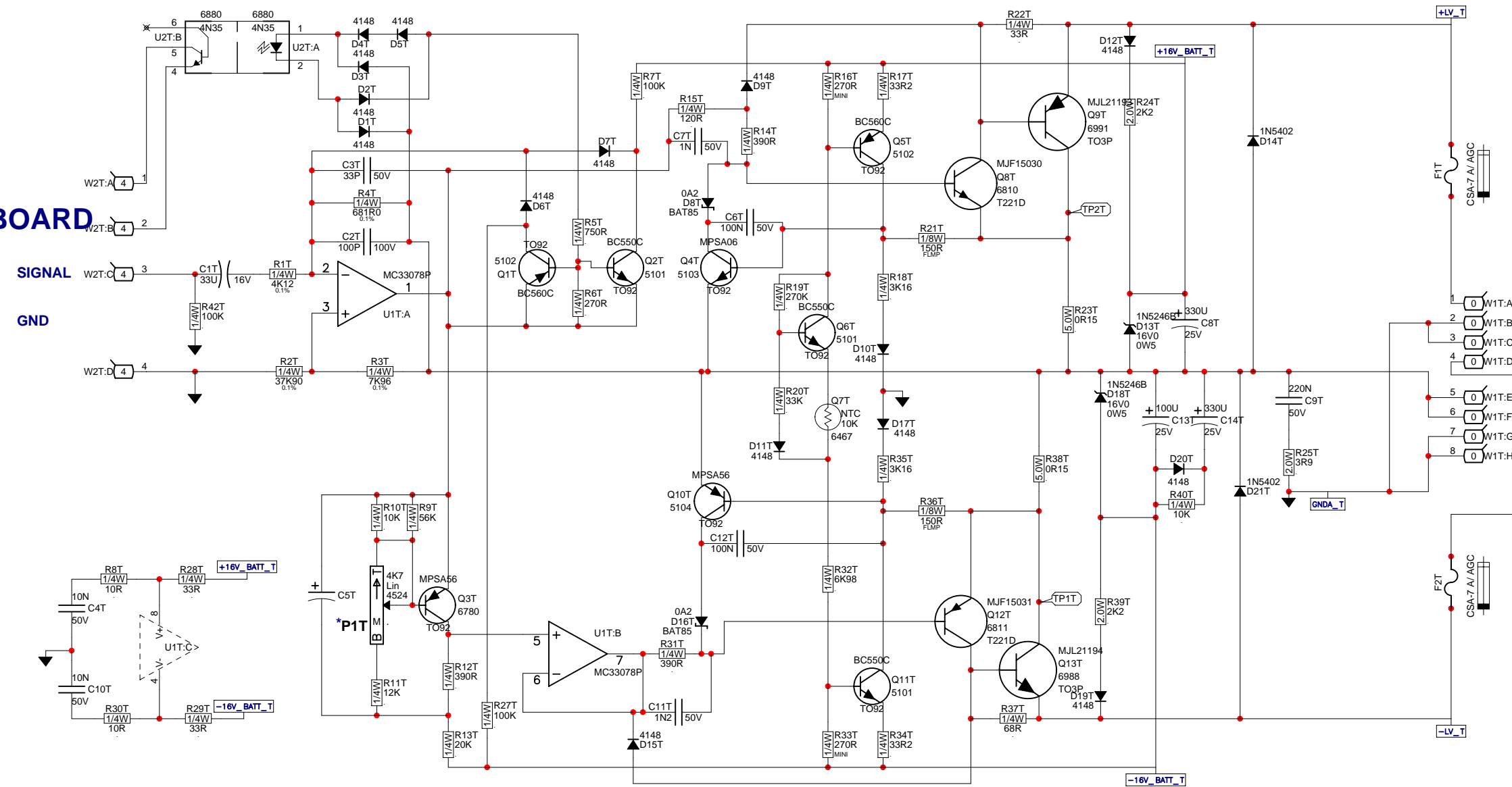
FROM INPUT BOARD



*** Adjust bias trim P1M to measure 4.5mV between TP1M and TP2M
Remove R9M as required to adjust bias.**

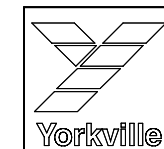


FROM INPUT BOARD



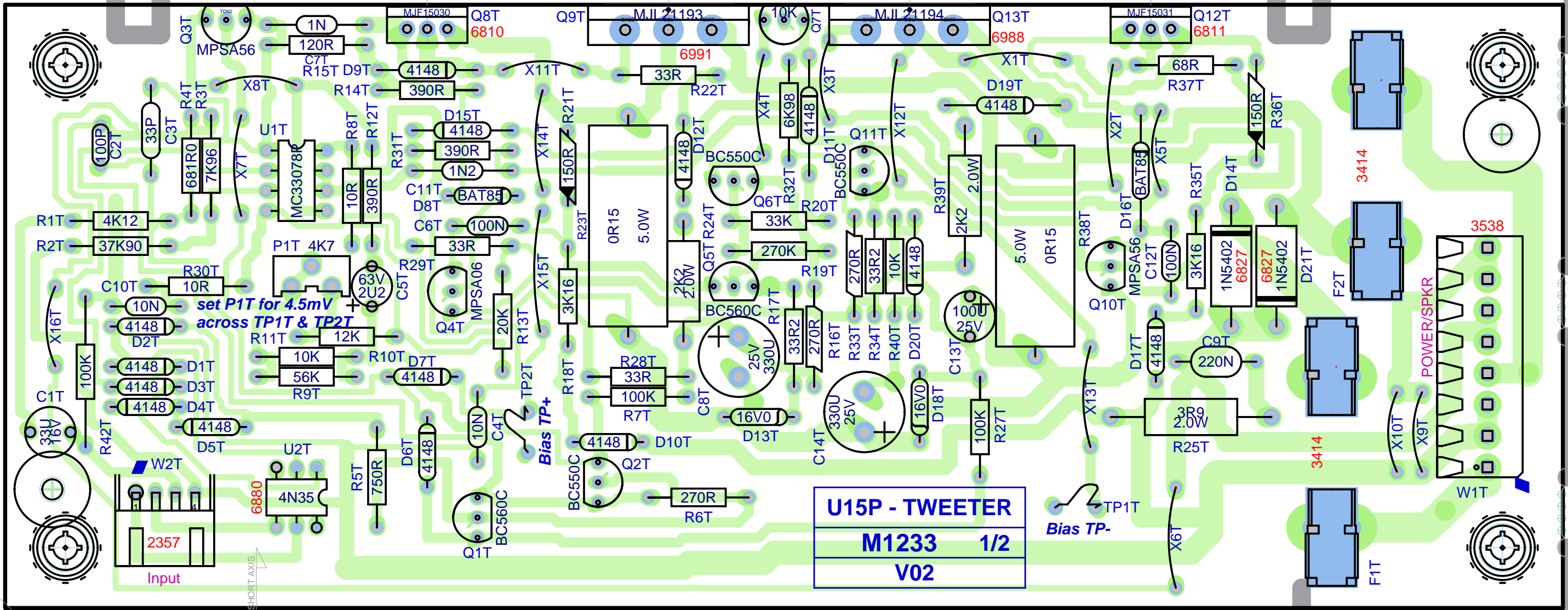
***Adjust bias trim P1T to measure 4.5mV between TP1T and TP2T
Remove R9T as required to adjust bias.**

M1233 Database History			
MODEL(S):-		U15P	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	4JUL2005	P3	Changed 6115 --> 4992
2	D	V	Removed routed finger holes
3	D	V	Changed Q10T,M from 6780 to 5104
4	2-NOV-2005	P3	Added R41T,41M,42T,42M
5	14FEB2006	1V0	Removed R41M,T, shorted pin3 of U1M,T to GND
6	09-AUG-2010	V02	PC8073: ADD BEC-LOC GG
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N



put goop on Q3T

put goop on Q7T



U15P - TWEETER
M1233 1/2
V02

M1233V02
M1233V02

5 oz copper

M1233 V02



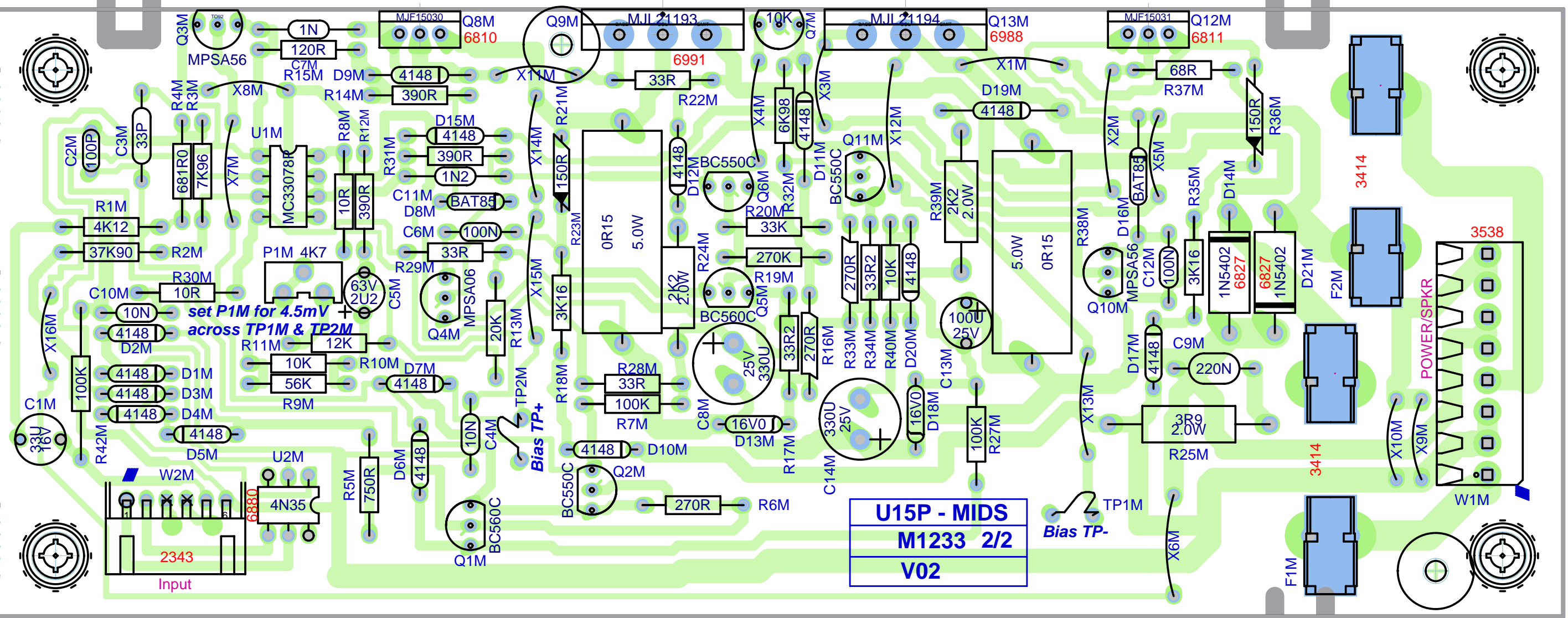
LONG AXIS

SHORT AXIS

SEE LAYOUT DOCUMENTATION

put goop on Q3M

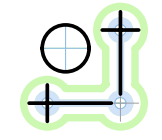
put goop on Q7M



U15P - MIDS
M1233 2/2
V02

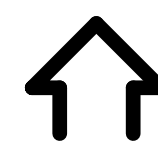
BlankSize - 17500x11000
 StepAndRepeat - X1@0.000Y3@3.500

SEE LAYOUT DOCUMENTATION





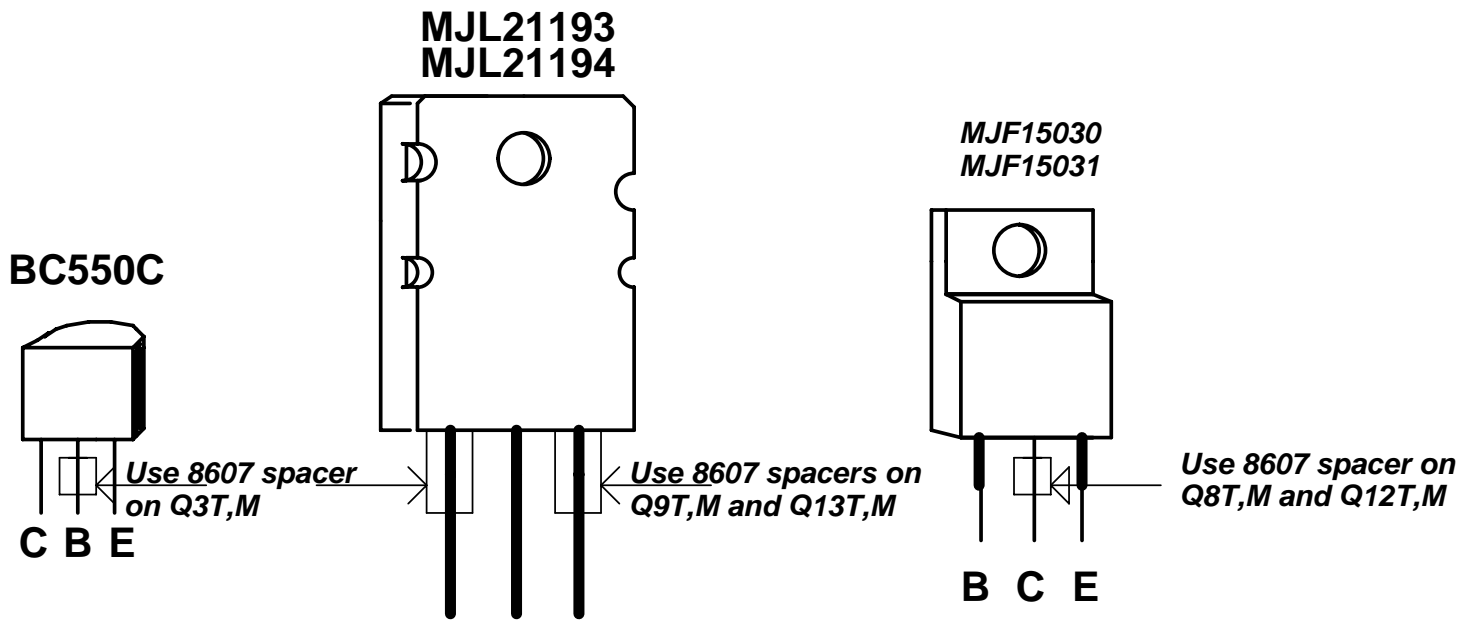
SEE LAYOUT DIAGRAM



M1233 REVISION HISTORY				M1233 DRILL HISTORY			
MODEL(S):- U15P				MODEL(S):- U15P			
#	DATE	VER#	DESCRIPTION OF CHANGE	#	DATE	VER#	DESCRIPTION OF CHANGE
1	4JUL2005	P3	Changed 6115 --> 4992	1	09-NOV-09	V02	Update board for Crimp
2	D	V	Removed routed finger holes	2	D	V	N
3	D	V	Changed Q10T,M from 6780 to 5104	3	D	V	N
4	2-NOV-2005	P3	Added R41T,41M,42T,42M	4	D	V	N
5	14FEB2006	1V0	Removed R41M,T, shorted pin3 of U1M,T to GND	5	D	V	N
6	09-AUG-2010	V02	PC8073: ADD BEC-LOC GG	6	D	V	N
7	D	V	N	M1233 PENDING LIST			
8	D	V	N	MODEL(S):- U15P			
9	D	V	N	#	DATE	VER#	DESCRIPTION OF CHANGE
10	D	V	N	1	D	V	N
11	D	V	N	2	D	V	N
12	D	V	N	3	D	V	N
13	D	V	N	4	D	V	N
				5	D	V	N
				6	D	V	N

M1233 PRODUCTION NOTES

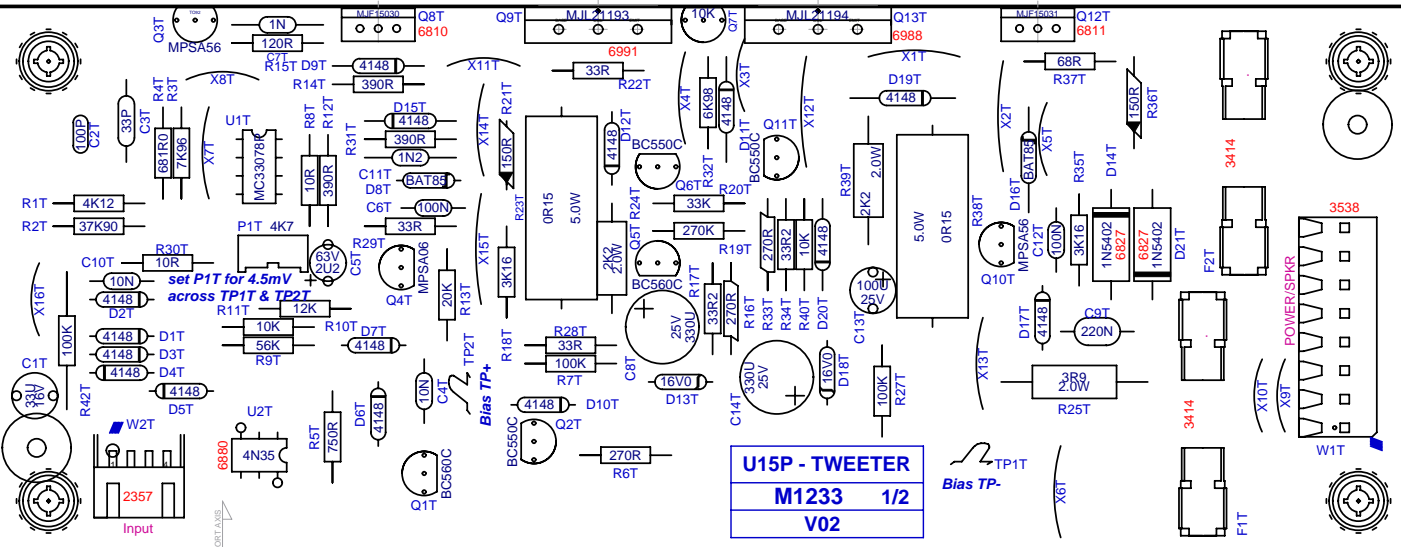
1. ADD SPACERS TO TRANSISTORS



2. Q3T AND Q3M ARE HAND INSERTED
3. Q3T, Q3M, Q7T, Q7M NEED TO BE GOOPED BEFORE BOARD IS BOLTED TO HEATSINK
4. BLANKSIZE & TOOLING HOLES MUST BE EXACT OR ELSE BOARD IS UNTESTABLE ON FIXTURE

put goop on Q3T

put goop on Q7T



set P1T for 4.5mV
across TP1T & TP2T

U15P - TWEETER
M1233 1/2
V02

Bias TP-

POWER/SPKR

SHORT AXIS

Input

6880

Q3T

U1T

P1T

D1T

U2T

2357

Q1T

Q4T

R31T

R8T

Q8T

Bias TP+

X15T

X14T

X11T

Q2T

Q5T

R23T

R21T

Q9T

D10T

R17T

D12T

R22T

Q7T

D13T

R19T

D11T

R22T

Q13T

D18T

R27T

D19T

R37T

Q12T

C14T

R16T

X4T

Q11T

C13T

R39T

X1T

Q13T

C9T

R35T

X5T

Q12T

D17T

R38T

Q10T

C12T

R35T

X2T

D17T

R35T

Q10T

C9T

R35T

Q12T

R25T

R36T

Q12T

Bias TP-

X13T

X2T

X1T

F1T

F2T

F2T

F2T

F2T

X6T

X10T

X9T

X10T

X10T

W1T

W1T

W1T

W1T

F1T

F2T

F2T

F2T

3414

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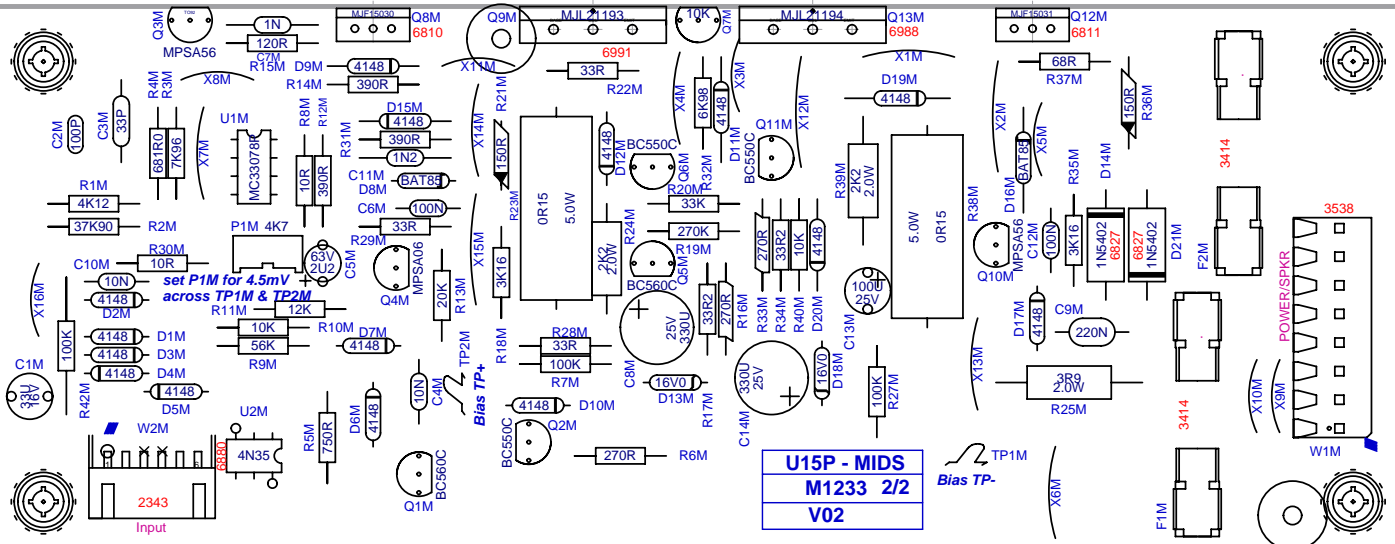
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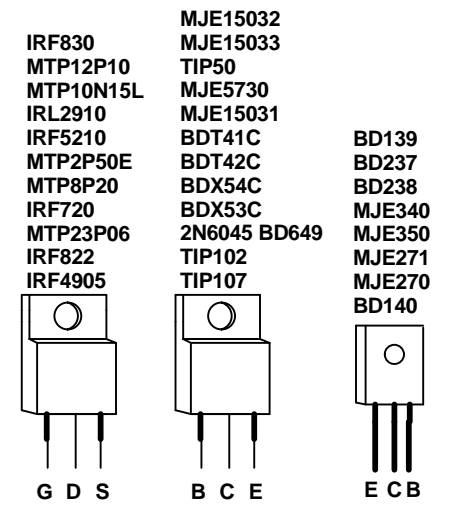
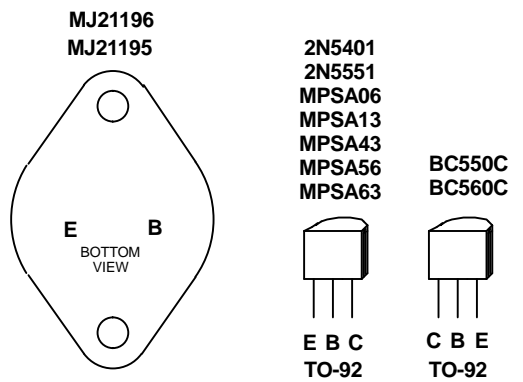
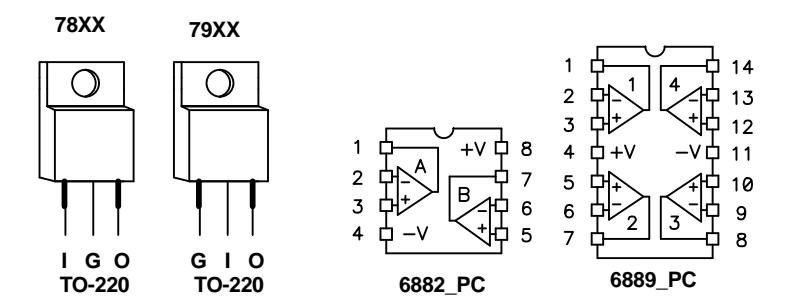
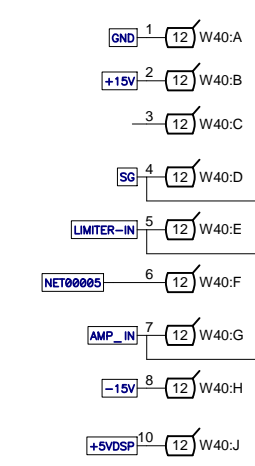
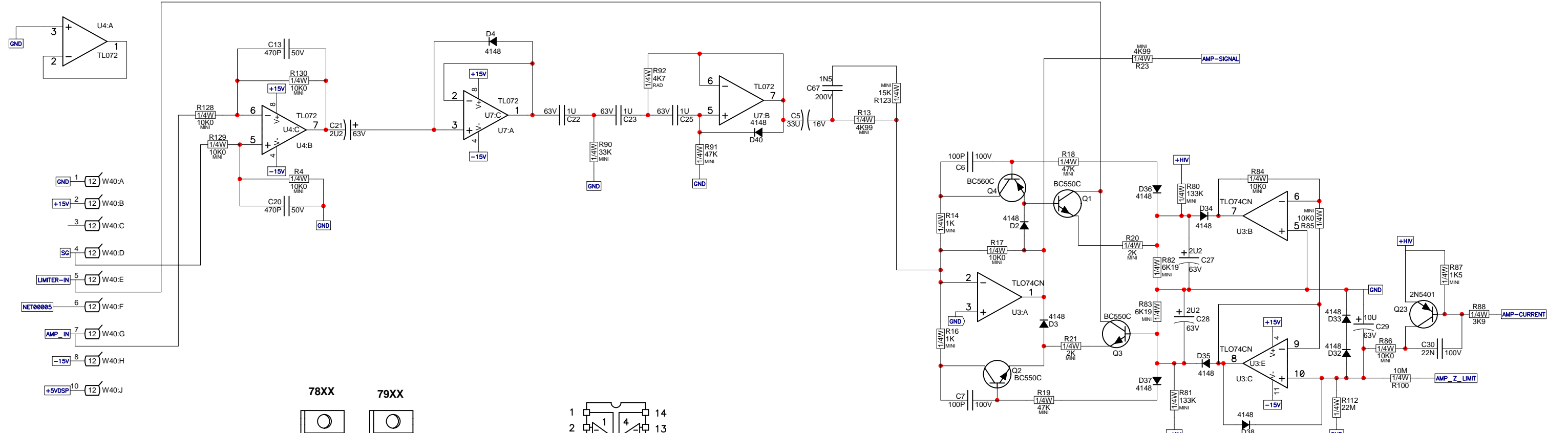
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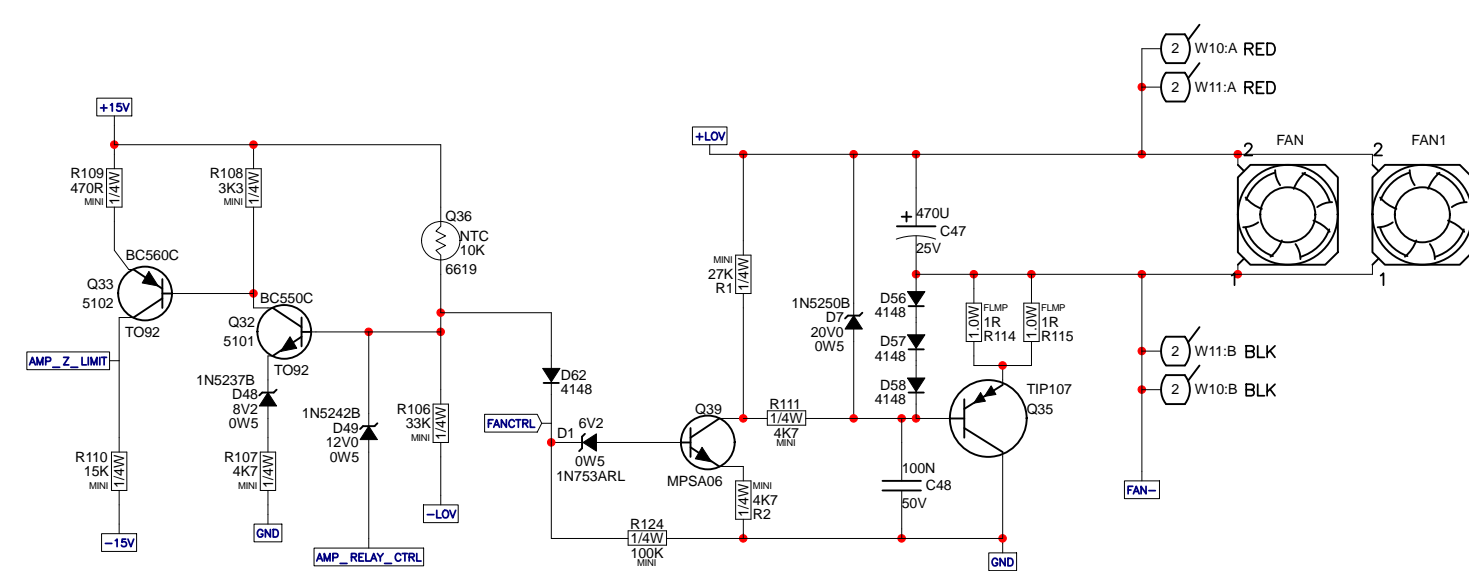
put goop on Q3M

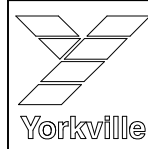
put goop on Q7M

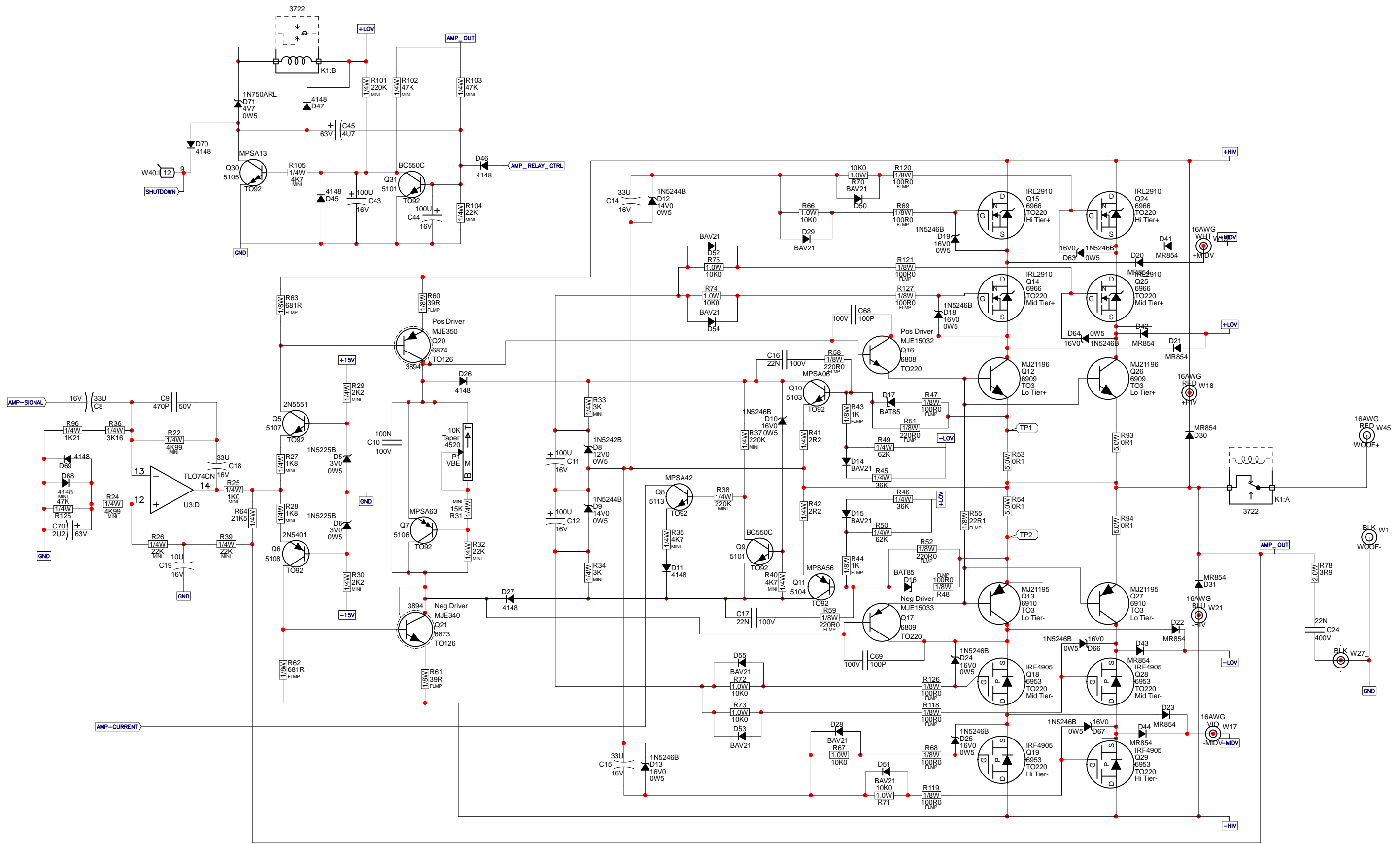




M1234 Database History			
MODEL(S):-	U15P	VER#	DESCRIPTION OF CHANGE
1	13SEPT2005	P2	R3 2006 --> 4688
2			N
3	14SEPT2005	P2	Added CONHOLE to chassis for GND
4	31OCT2005	P2	Modified XFMR colours
5	8NOV2005	P2	Q14,15,24,25 from 3205 (#6954) to 2910 (#6966)
6	9NOV2005	P2	Removed X33, changed X6,7
7	19DEC2005	P3	Increased size of relay board
8			Added mounting holes & deleted W29, changed colour W55
9	10JAN2006	P3	Changed SPKR wire colours
10	26JAN2006	P3	Added D76,D77 and changed D39,65,72,73 to 1N4007
11	14FEB2006	1V0	Re-routed PS GND, added ferrites to relay brd power, del LG
12	D	V	Removed W12, input limiter circuitry, changed C38,39,31,5,8
13	9MAR2006	1V0	C22,23,25 4.7uF->1uF
1	21MAR2006	1V0	Changed horn output relays to DC powered, R65 to 20k
2	16-MAY-2006	2.00	PC#7126:GT:ADDED X33 TO JUMP GND TO W40 PIN1
3			MOVED W57, W58, W62 DOWN 150MIL FOR CHASSIS
4	18-APR-2007	3.00	PC#7242, Added EC27-30, Fasten PCB and Heatsink
5			Changed pattern of XC4A,5A,94,114
6			PC7586, change Q8 2N5551 #5107 to MPSA42 #5113
7	07-JUL-2008	4.00	PC#7574, ADD FAN CONNECTOR#4056
8	D	V	PC#7586, CHANGE Q8 FROM 2N5551 TO MPSA42 #5113
9	05-JUL-2012	V05	PC#8416: Go to double sided PCB & remove eyelets. - ML
10			PC8423: Replaced 6467 thermistor with 6619. - ML
11	D	V	N
12	D	V	N
13	D	V	N

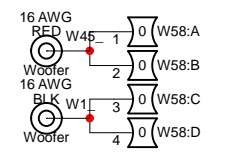


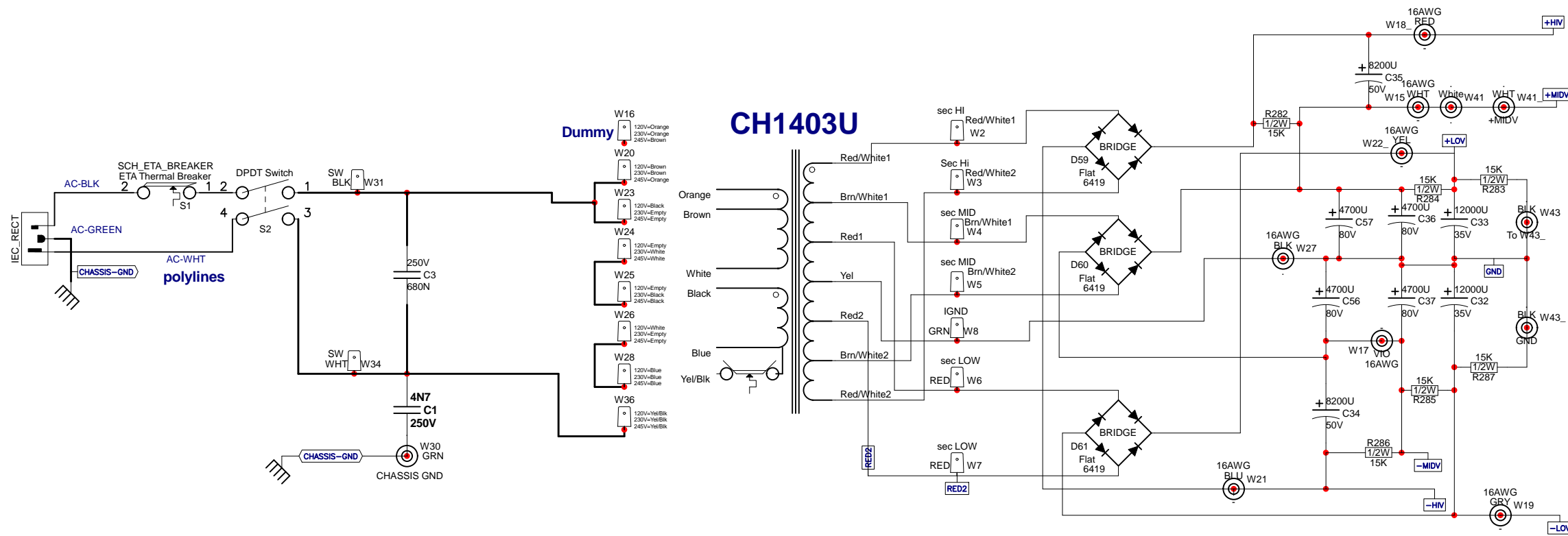

Product U15P
AMP-IN **PCB# M1234** **Sheet 1 of 4**
Date: Thu Jul 05, 2012 **Rev: V05**
Filename: M1234V05SCH.sch2006



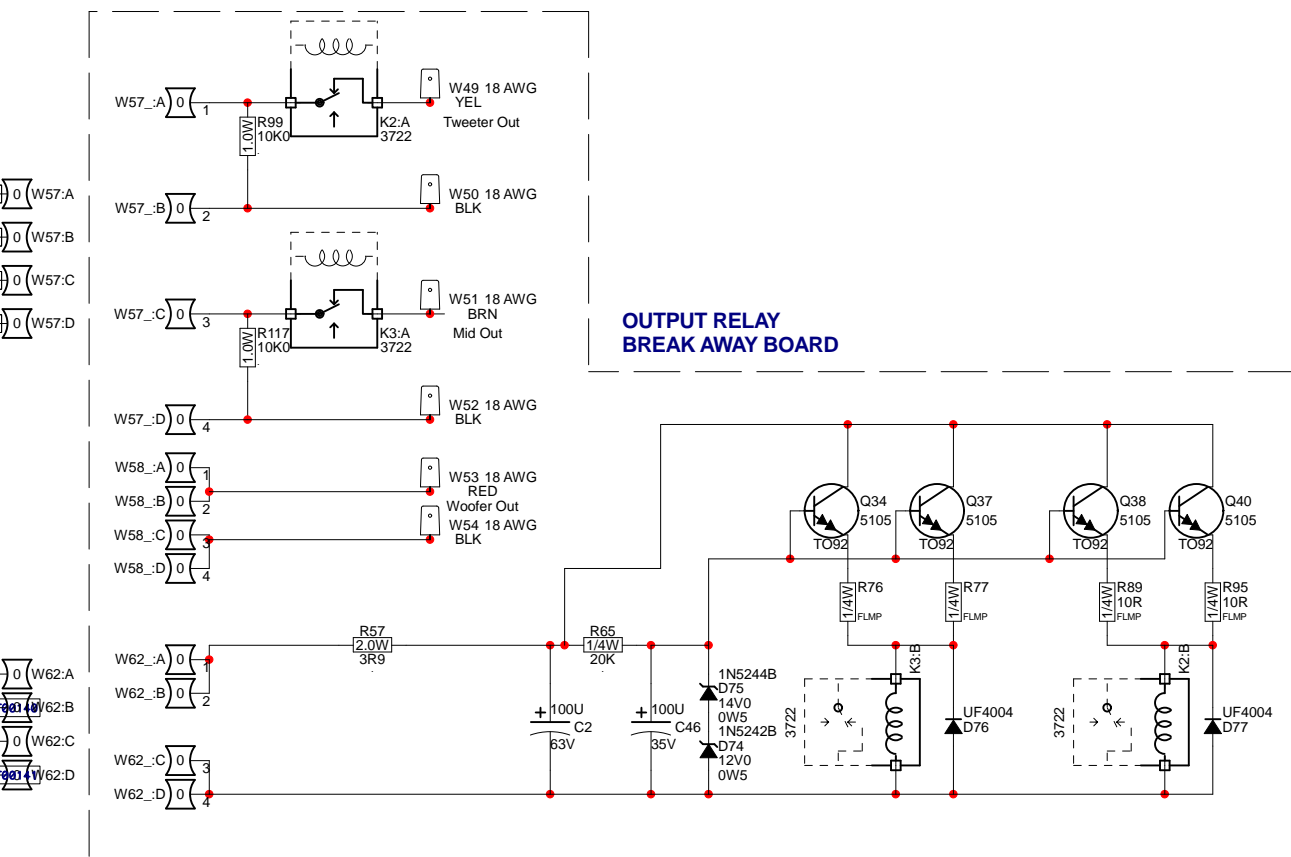
Adjust bias trim P1 to measure 8mV between TP1 and TP2

	Product U15P	
	AMP	PCB# M1234
	Date: Thu Jul 05, 2012	Rev: V05
	Filename: M1234V05SCH.sch2006	



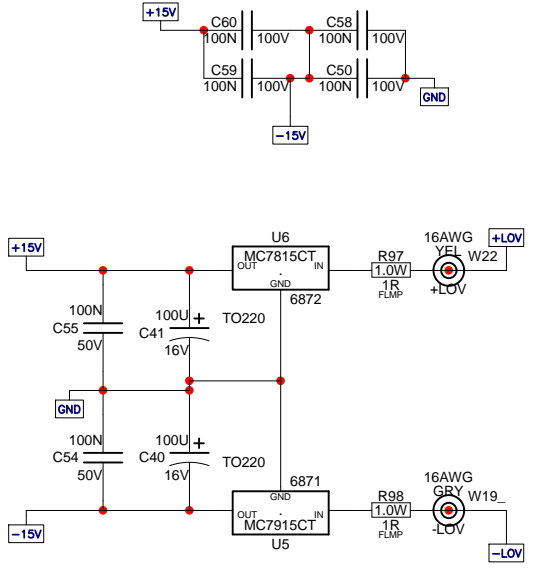
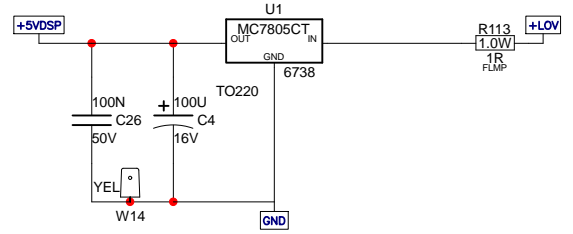
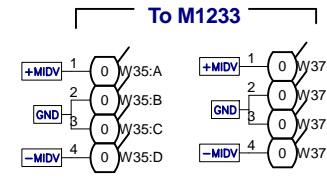


NO LOAD VOLTAGES
 LOV +/- 30.5 Vdc
 MIDV +/- 64 Vdc
 HIV +/- 98.5 Vdc



**OUTPUT RELAY
BREAK AWAY BOARD**

From Tweeter & Mid Boards

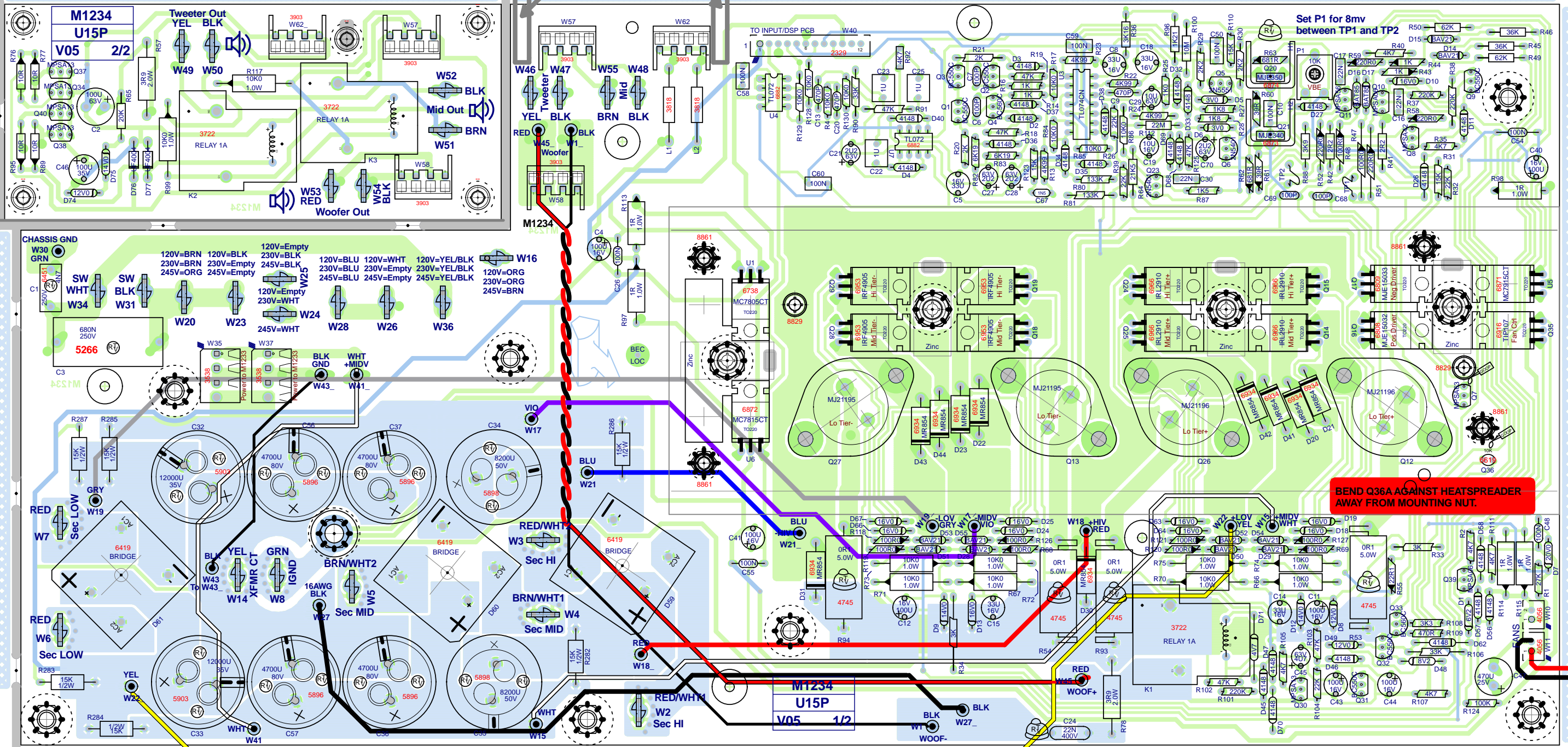


DON'T PLACE COMPONENTS HERE
CHASSIS SCREWS BRACE TOP OF BOARD
HERE

Into Wave

WARNING!
FOR CE
CHASSIS MUST
NOT COME CLOSER
TO THE BOARD
COPPER TRACES
OF SECTION 1/2!

BlankSize - 18000x9000



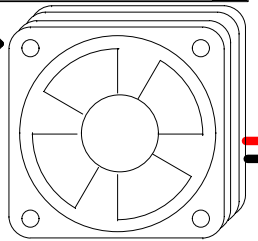
BEND Q36A AGAINST HEATSPREADER
AWAY FROM MOUNTING NUT.

M1234 V05

U15P

SEE LAYOUT DOCUMENTATION

Two fans





SEE LAYOUT DIAGRAM



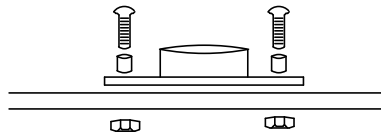
M1234 V05 PRODUCTION NOTES

Board Assembly

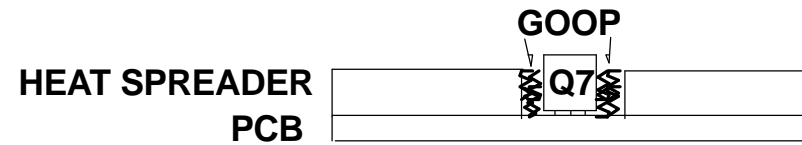
1 - USE THE TWO #8829 SCREWS TO LINE UP THE HEATSPREADER ON THE PCB.

2 - INSERT #8861 THROUGH THE FOUR CORNERS OF THE HEATSINK AND ADD #8701 NUTS ON BOTTOM PCB SIDE.

3 - MOUNT Q12,Q13,Q26,Q27 SCREWS FROM THE TOP:



4 - FILL SPACE BETWEEN HEATSPREADER AND Q7 AND Q36 WITH THERMAL GOOP:



6 - SECURE THE TO-220 TRANSISTORS AGAINST THE HEATSPREADER AS PER DIAGRAM.

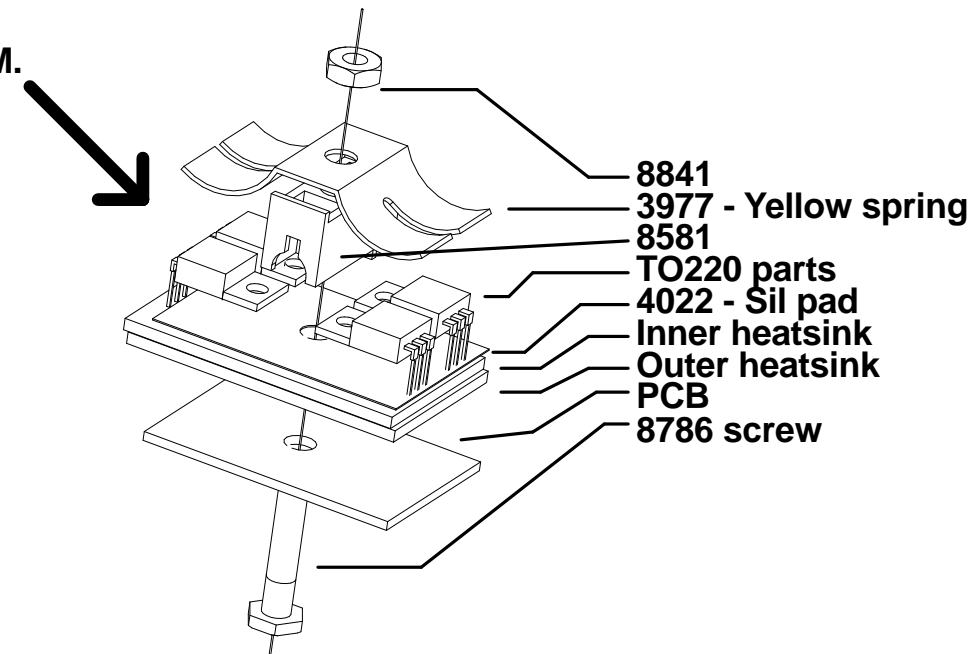
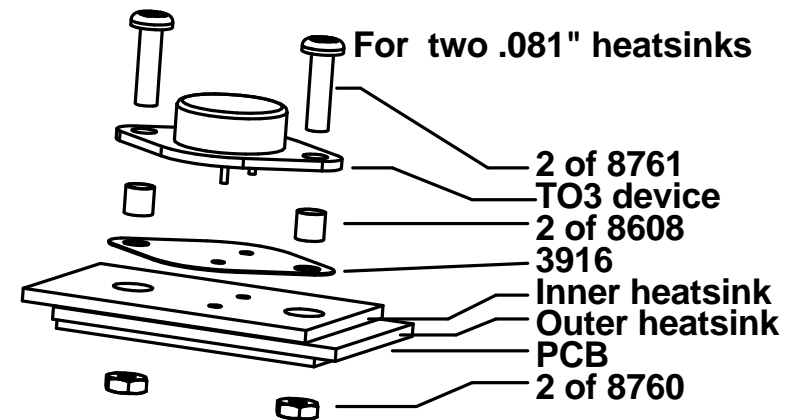
7 - CONNECT BREAK-AWAY BOARD TO UNDERSIDE OF MAIN BOARD USING THREE #3668 CONNECTORS AFTER DROPPING BOARD INTO CHASSIS

8 - RTV LARGE ELECTROLYTIC CAPACITORS TOGETHER, RTV SMALL ELECTROLYTICS TO THE BOARD

9 - RTV LARGE 5W RESISTORS TO THE BOARD

10 - TAPE OFF GROUND RING NEAR SUPPLY CAPS BEFORE WAVE SOLDERING. THIS AREA MUST BE FLAT WHEN ASSEMBLING CHASSIS.

11 - BREAK OUT BOARD BEFORE TESTING.





SEE LAYOUT DIAGRAM



M1234 Database History

MODEL(S):- U15P			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	13SEPT2005	P2	R3 2006 --> 4688
2			N
3	14SEPT2005	P2	Added CONHOLE to chassis for GND
4	31OCT2005	P2	Modified XFMR colours
5	8NOV2005	P2	Q14,15,24,25 from 3205 (#6954) to 2910 (#6966)
6	9NOV2005	P2	Removed X33, changed X6,7
7	19DEC2005	P3	Increased size of relay board
8			Added mounting holes & deleted W29, changed colour W55
9	10JAN2006	P3	Changed SPKR wire colours
10	26JAN2006	P3	Added D76,D77 and changed D39,65,72,73 to 1N4007
11	14FEB2006	1V0	Re-routed PS GND, added ferrites to relay brd power, del LG
12	D	V	Removed W12, input limiter circuitry, changed C38,39,31,5,8
13	9MAR2006	1V0	C22,23,25 4.7uF->1uF
1	21MAR2006	1V0	Changed horn output relays to DC powered, R65 to 20k
2	16-MAY-2006	2.00	PC#7126:GT:ADDED X33 TO JUMP GND TO W40 PIN1
3			MOVED W57, W58, W62 DOWN 150MIL FOR CHASSIS
4	18-APR-2007	3.00	PC#7242, Added EC27-30, Fasten PCB and Heatsink
5			Changed pattern of XC4A,5A,94,114
6			PC7586, change Q8 2N5551 #5107 to MPSA42 #5113
7	10-NOV-2008	4.00	PC#7574, ADD FAN CONNECTOR#4056
8	D		PC#7586, CHANGE Q8 FROM 2N5551 TO MPSA42 #5113
9	05-JUL-2012	V05	PC#8416: Go to double sided PCB & remove eyelets. - ML
10			PC8423: Replaced 6467 thermistor with 6619. - ML
11	D	V	N
12	D	V	N
13	D	V	N
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

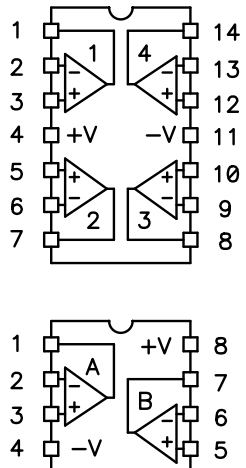
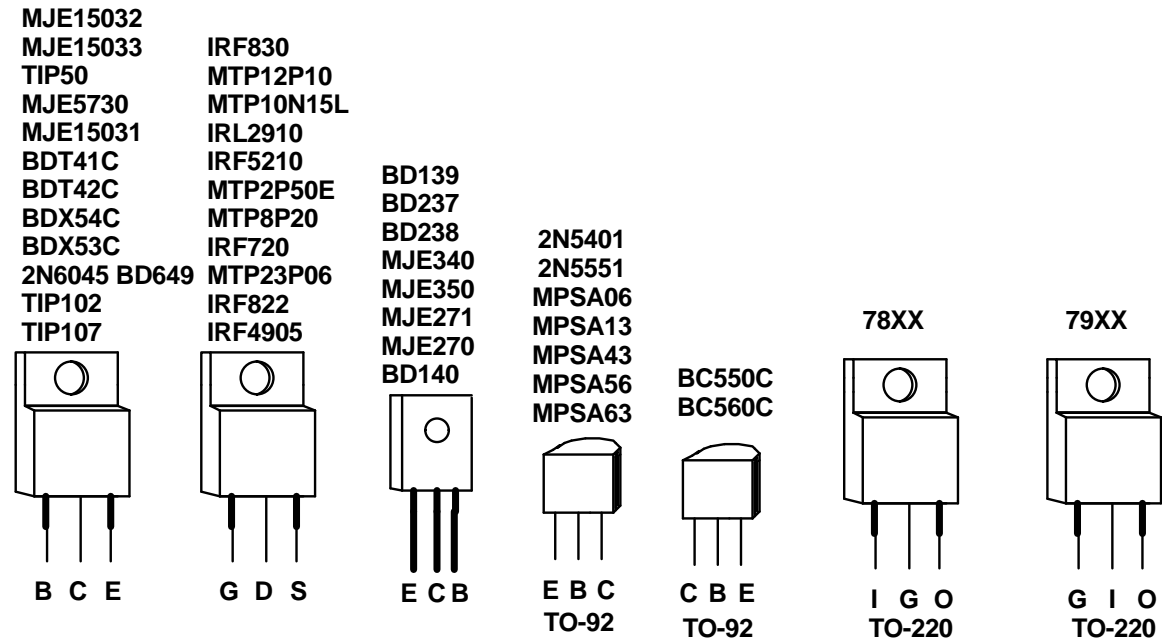
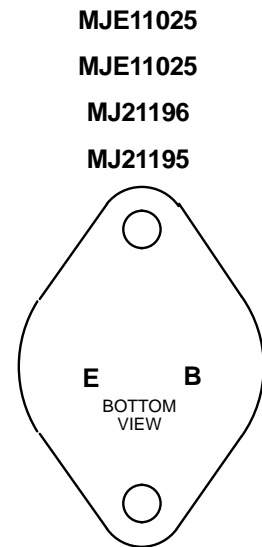
M1234 Pending List

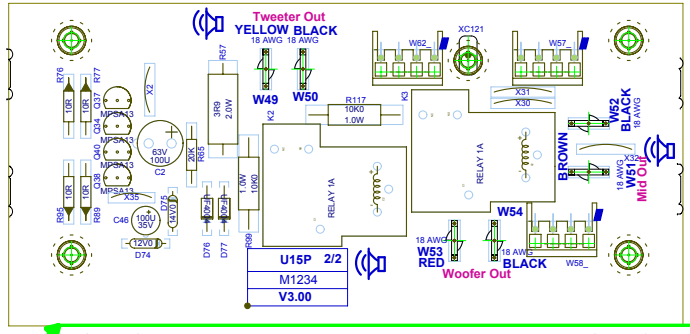
MODEL(S):- U15P			
#	DATE	VER#	DESCRIPTION OF CHANGE
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2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N

M1234 Drill History

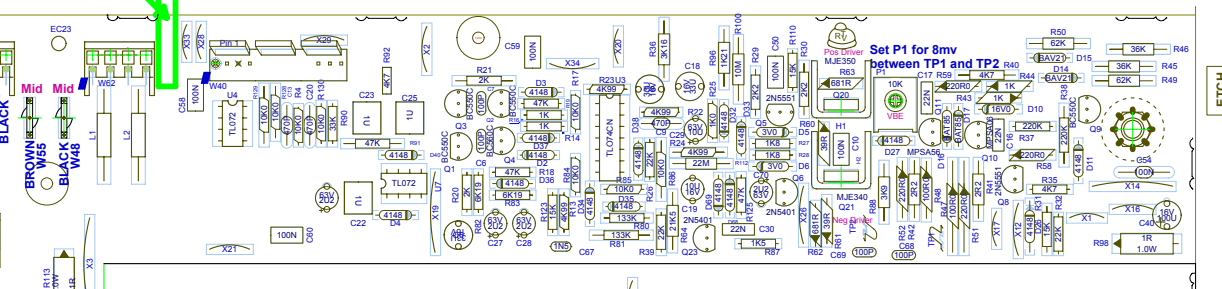
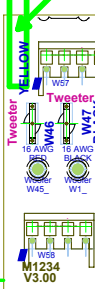
MODEL(S):- U15P			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N

PIN CONFIGURATION

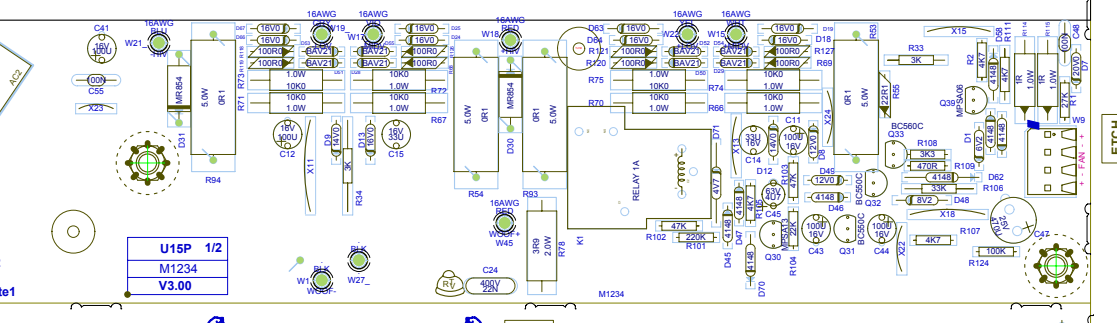
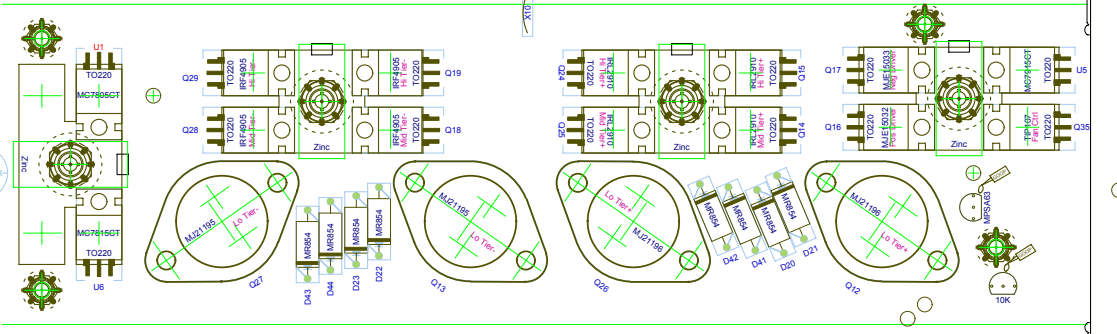
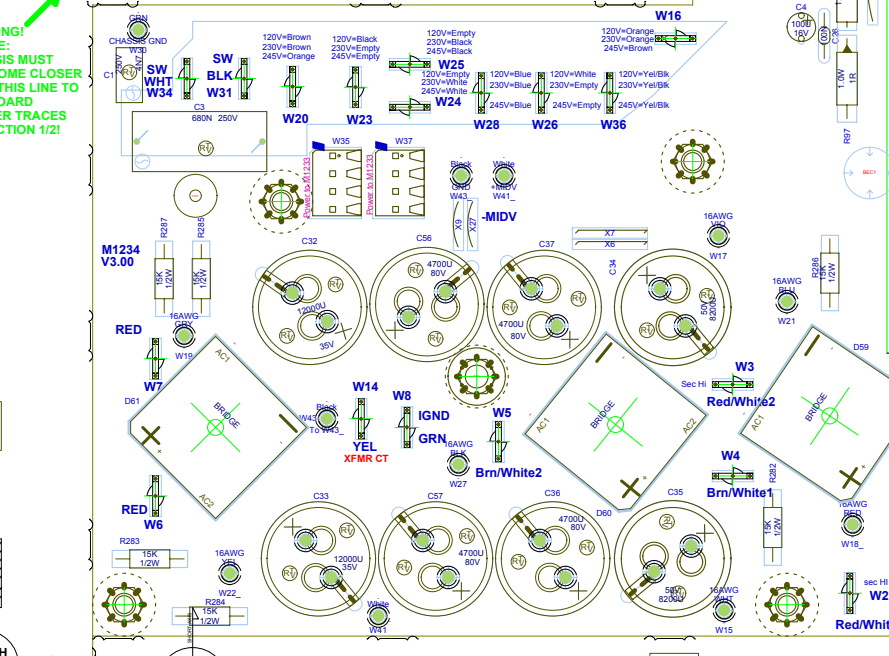


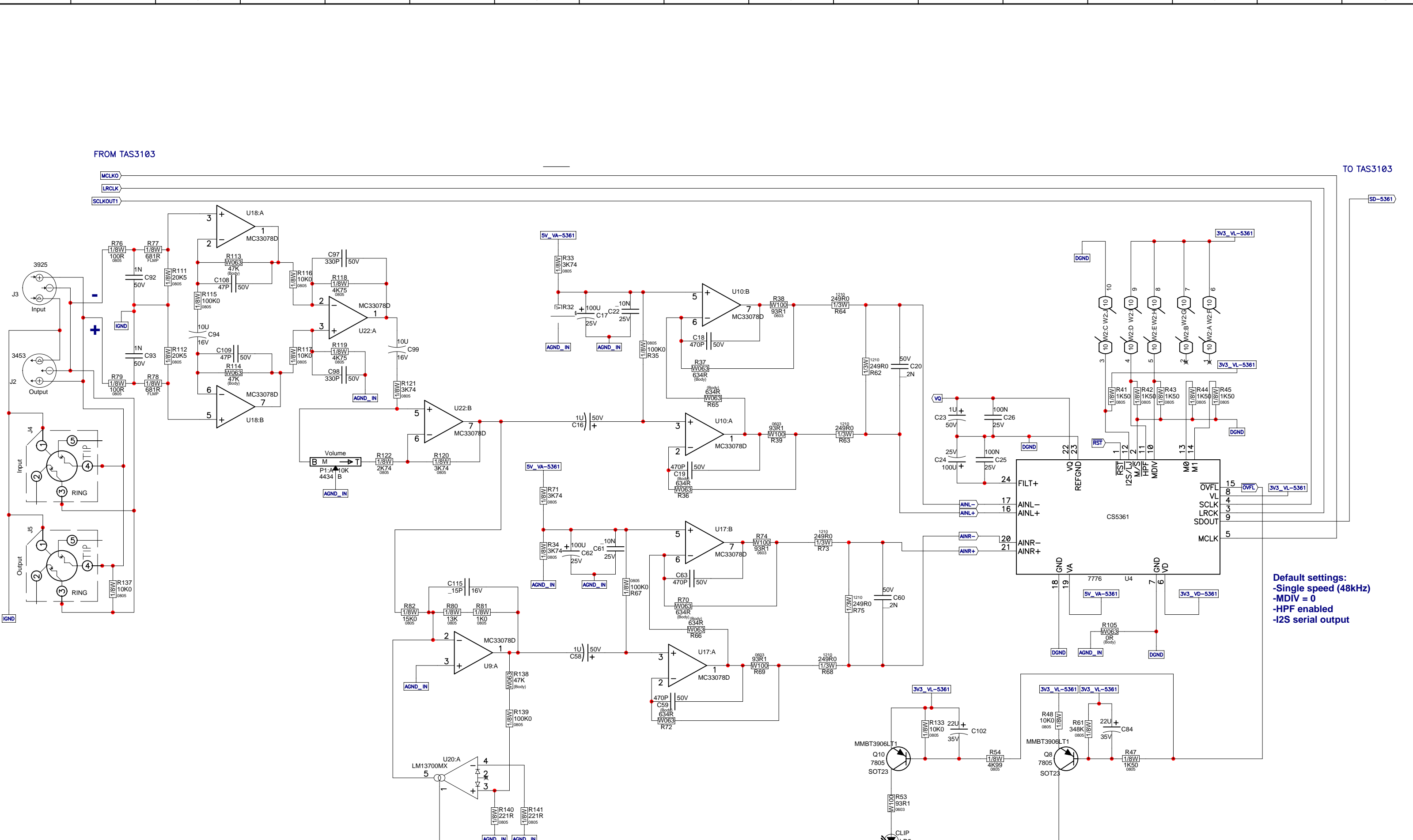


DON'T PLACE COMPONENTS HERE
CHASSIS SCREWS BRACE TOP OF BOARD
HERE



WARNING!
FOR CE
CHASSIS MUST
NOT COME CLOSER
THAN THIS LINE TO
THE BOARD
COPPER TRACES
OF SECTION 1/2!

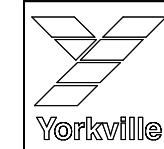




FROM TAS3103

TO TAS3103

Default settings:
 -Single speed (48kHz)
 -MDIV = 0
 -HPF enabled
 -I2S serial output



Product U15P		
ADC	PCB# M1235	Sheet 1 of 4
Date: Thu Feb 18, 2010	Rev: V4.00	YsType: (Company)
Filename: m1235v400sch.sch2002		

FROM ADC

SD-5361

TO DAC

LRCLK

SDOUT1

SDOUT2

SDOUT3

SCLKOUT2

MCLK0

TO ADC

MCLK0

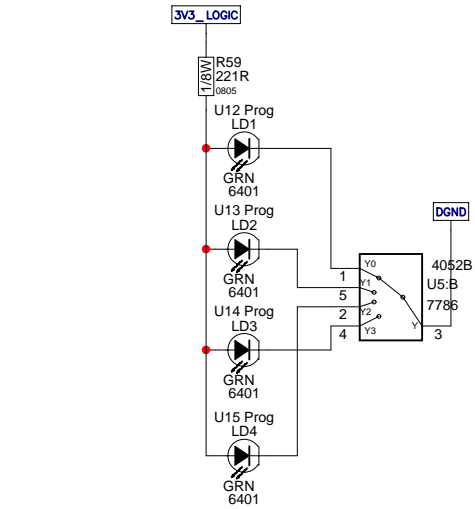
LRCLK

SCLKOUT1

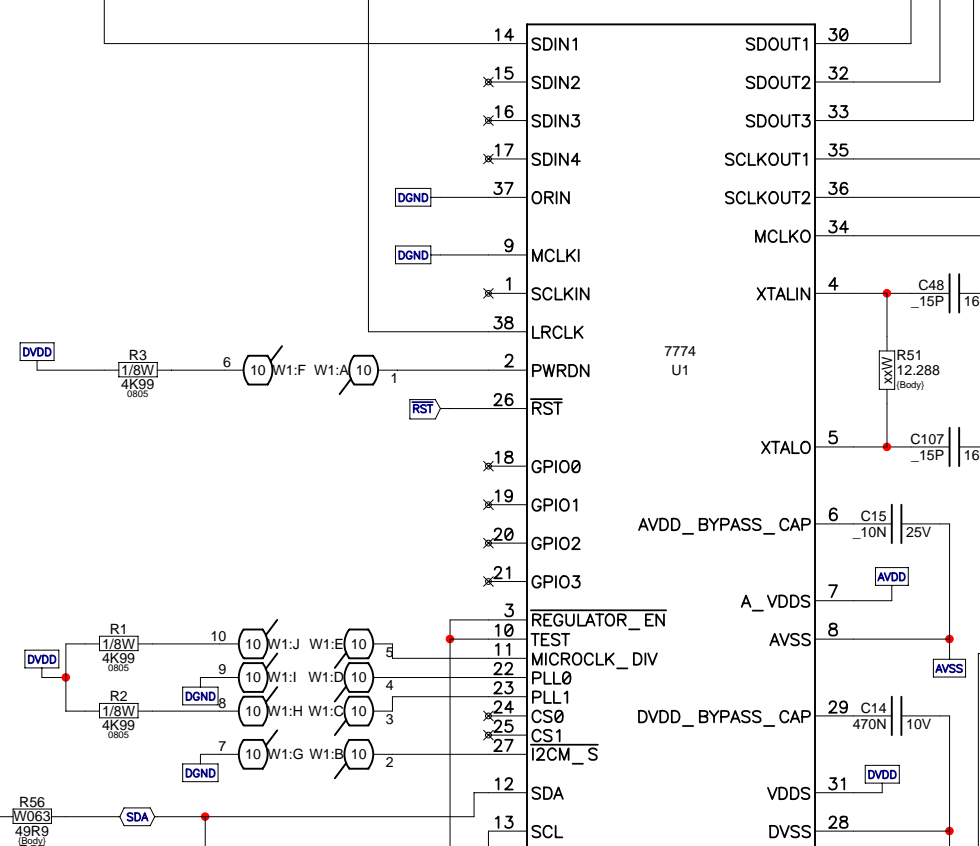
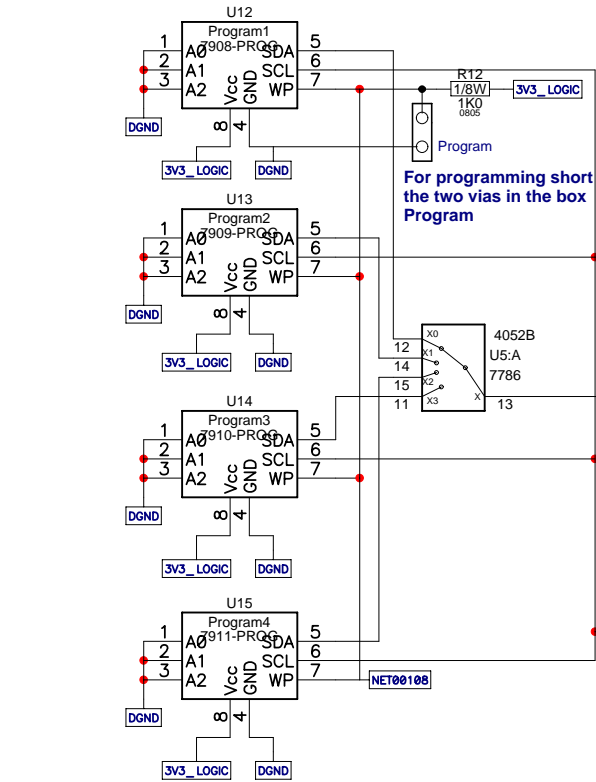
TO POWER

I2C-RST

MR

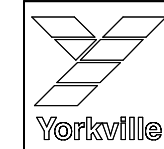
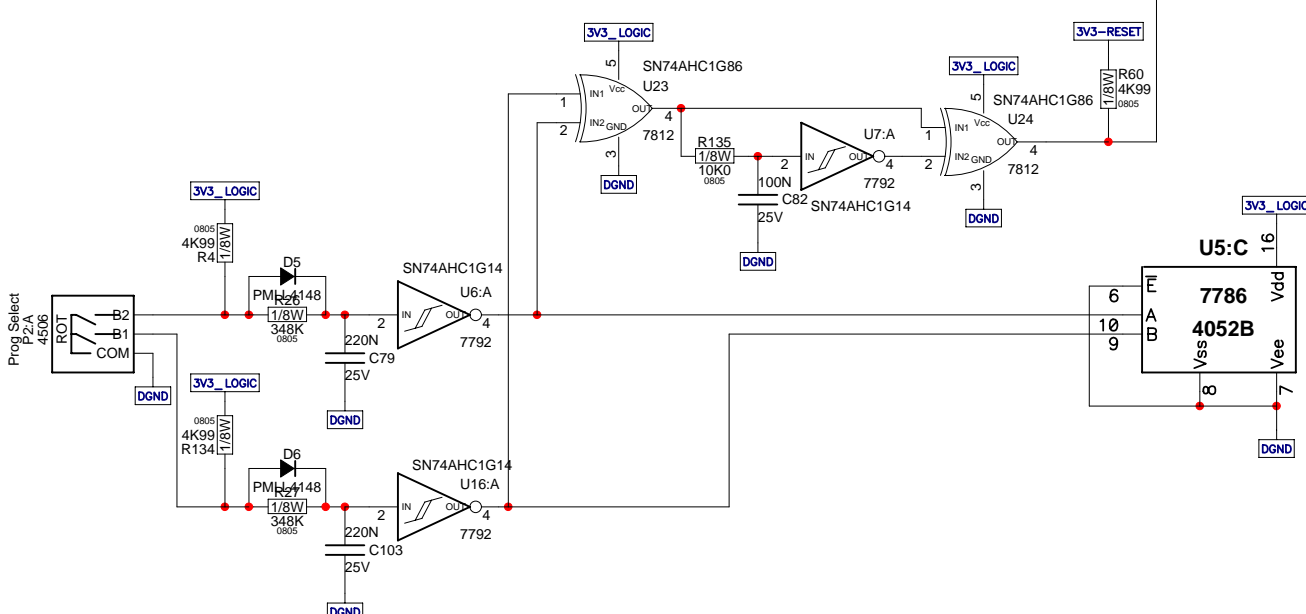
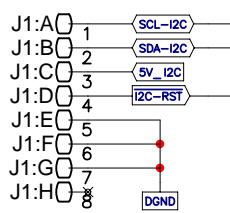


For programming short the two vias in the box Program

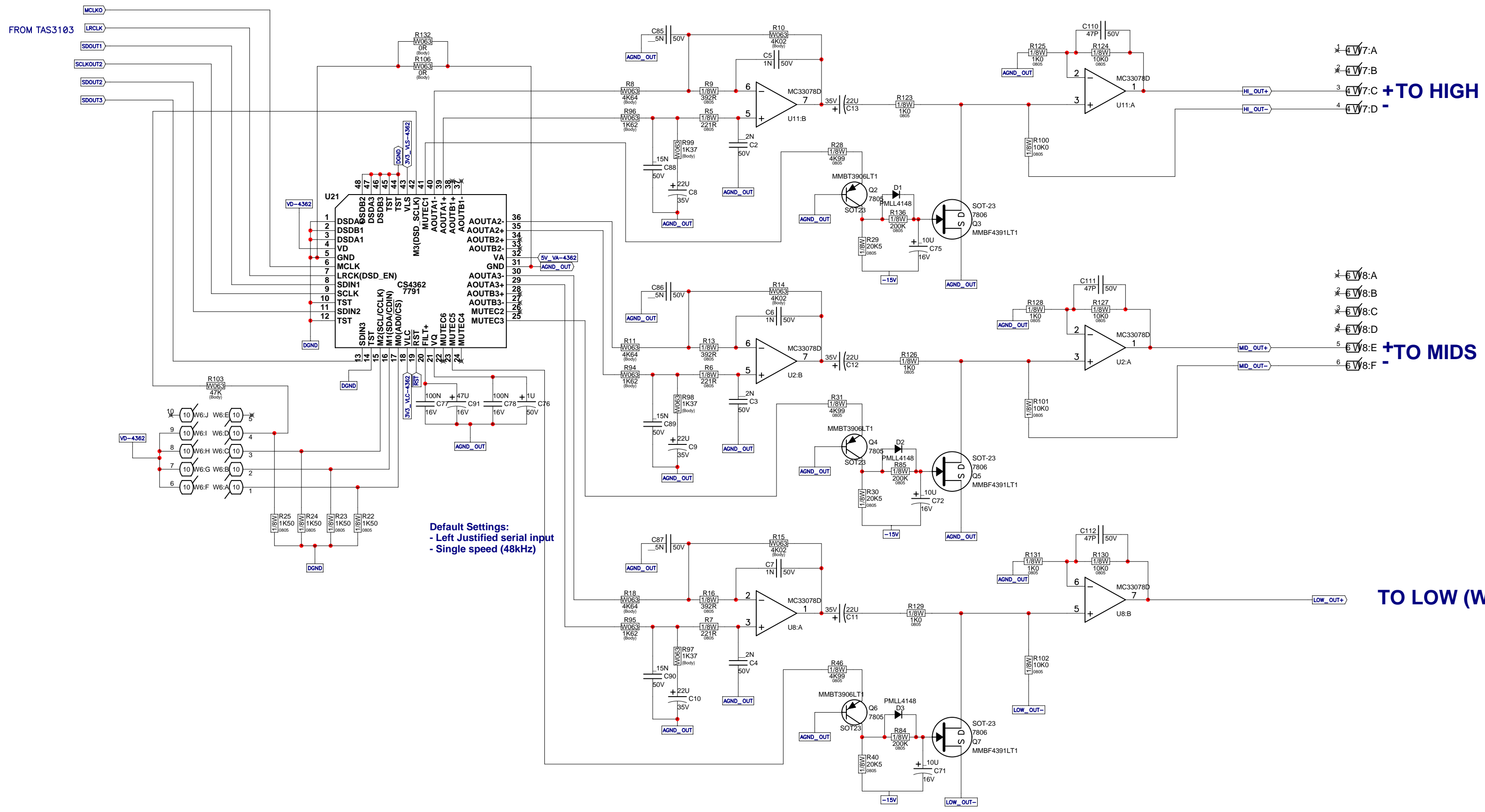


Default Settings:
 -Master Mode
 -PLL set for Fs=48kHz
 -MICROCLK = DAP/4

FROM PADDLE BOARD (DAREF106)



Product U15P		
DSP	PCB# M1235	Sheet 2 of 4
Date: Thu Feb 18, 2010	Rev:V4.00	YsType:(Company)
Filename: m1235v400sch.sch2002		



Default Settings:
 - Left Justified serial input
 - Single speed (48kHz)

1 HI_OUT+
 2 HI_OUT-
 3 HI_OUT+
 4 HI_OUT-
+TO HIGH

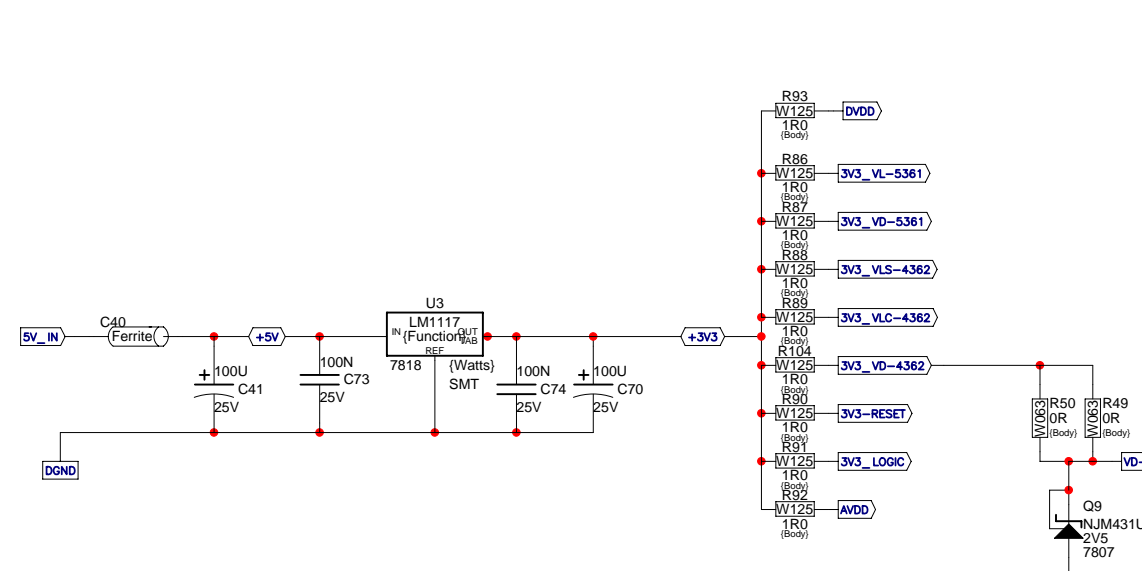
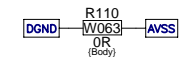
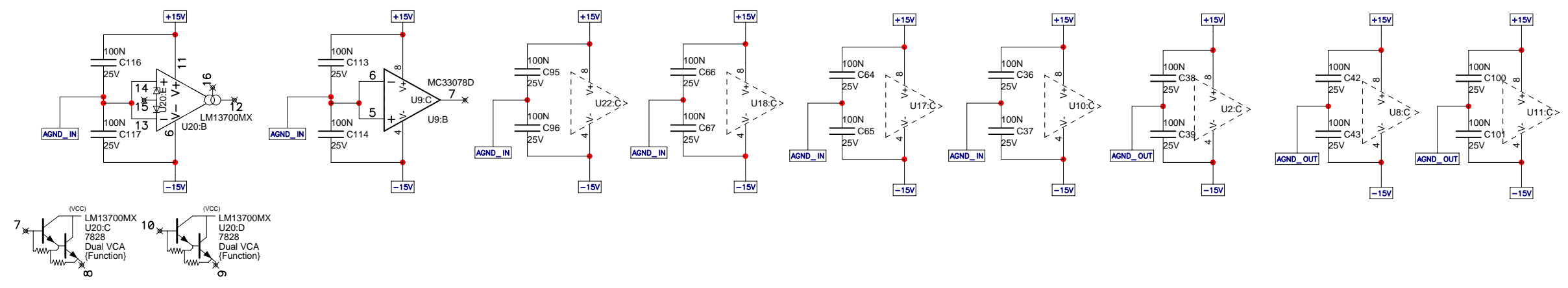
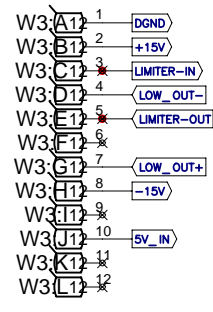
1 MID_OUT+
 2 MID_OUT-
 3 MID_OUT+
 4 MID_OUT-
 5 MID_OUT+
 6 MID_OUT-
+TO MIDS

1 LOW_OUT+
 2 LOW_OUT-
 3 LOW_OUT+
 4 LOW_OUT-
TO LOW (W3)

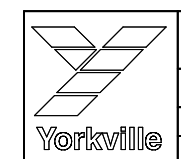
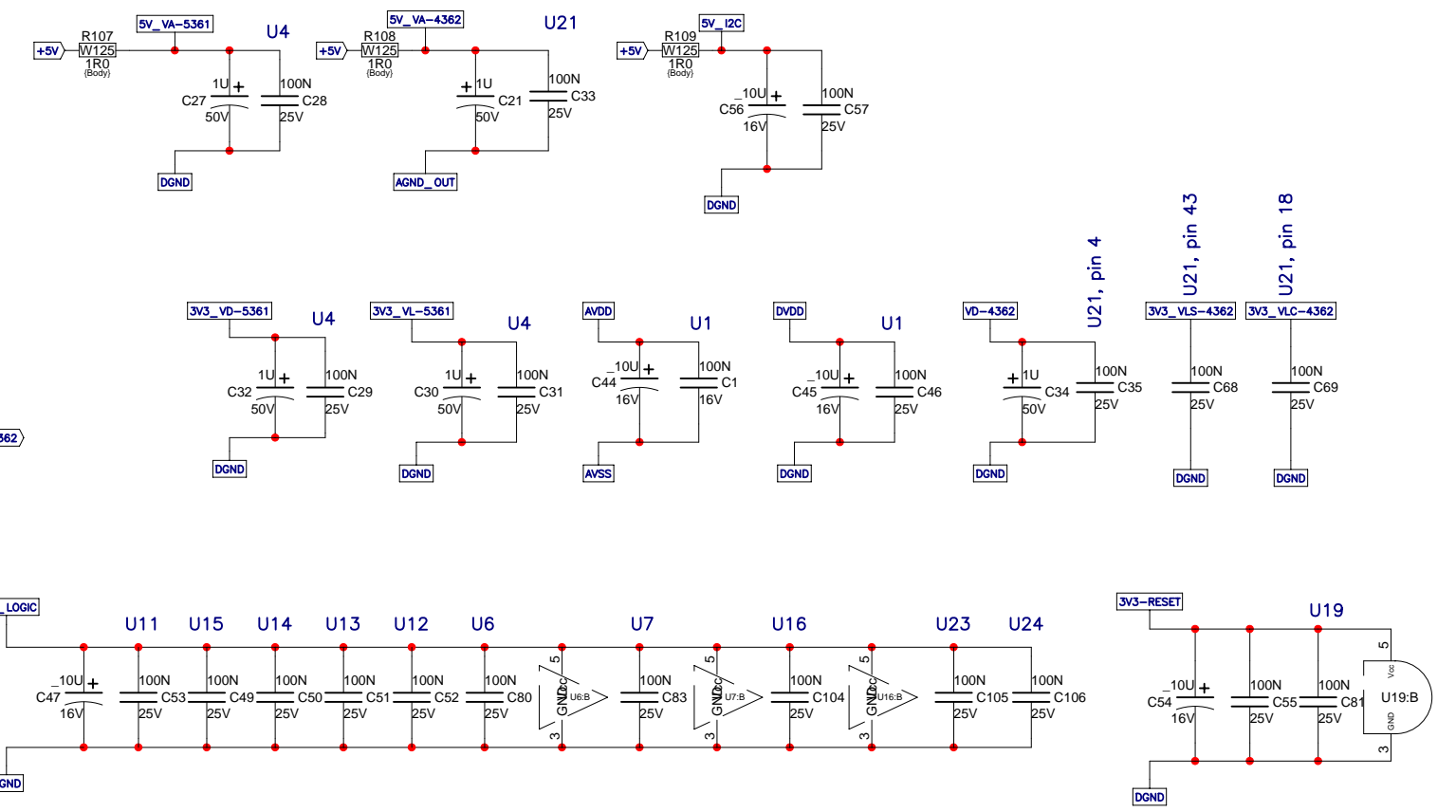


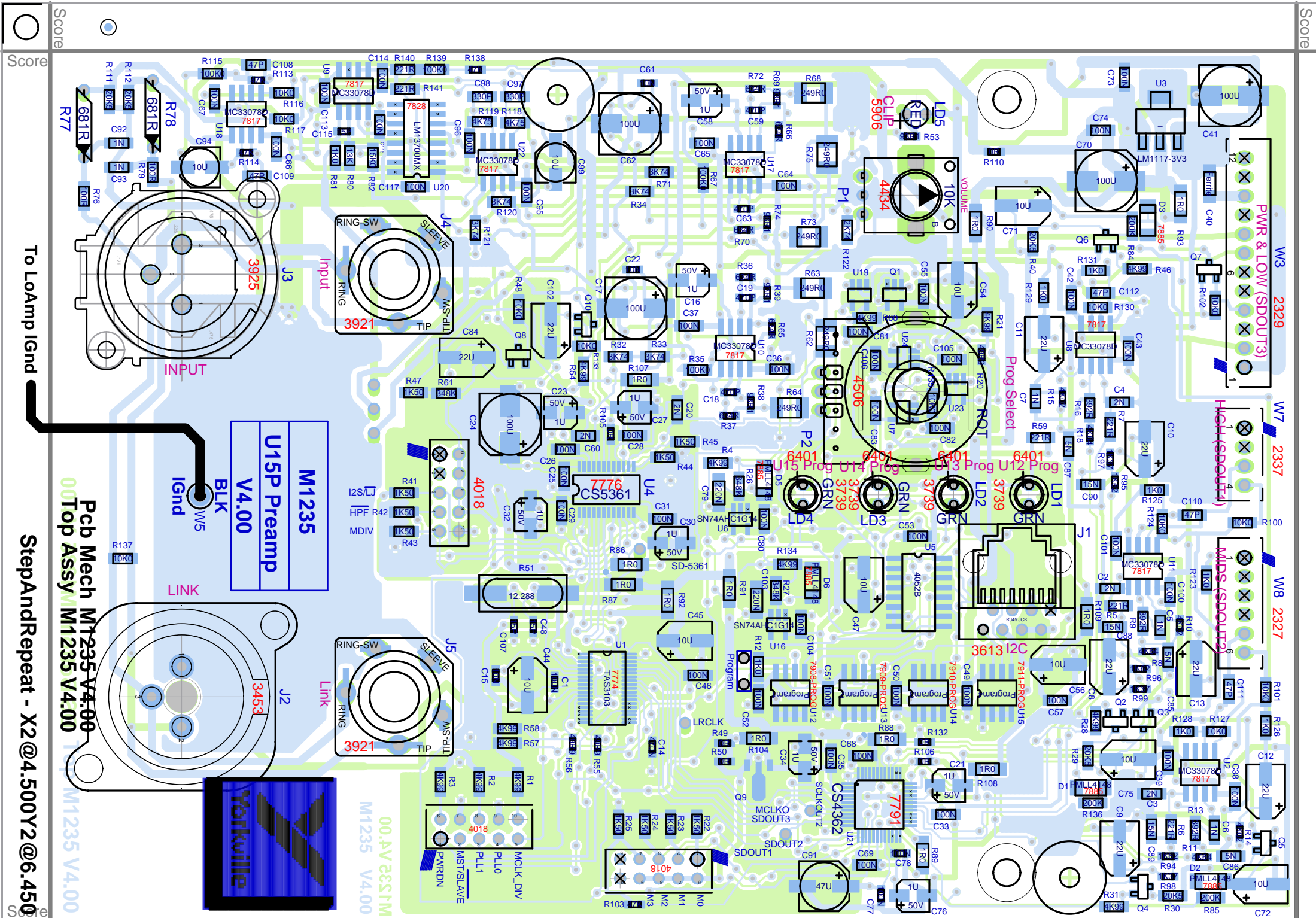
Product U15P		
DAC	PCB# M1235	Sheet 3 of 4
Date: Thu Feb 18, 2010	Rev:V4.00	YsType:(Company)
Filename: m1235v400sch.sch2002		

RIBBON TO AMP



***DNS Q9 when U21 is a CS4362.**
***Only stuff Q9 when U21 is CS4362A to provide 2.5V.**
***When using CS4362A, replace R49 & R50 with 49R9 (7781).**





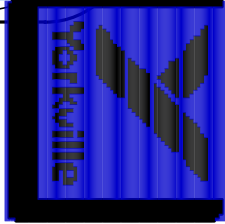
SEE LAYOUT DOCUMENTATION

To Loamp Ignd

StepAndRepeat - X2@4.500Y2@6.450

Pcb Mech M1235 V4.00
Top Assy M1235 V4.00

M1235
U15P Preamp
V4.00



00.4V 233TM
M1235 V4.00



SEE LAYOUT DIAGRAM

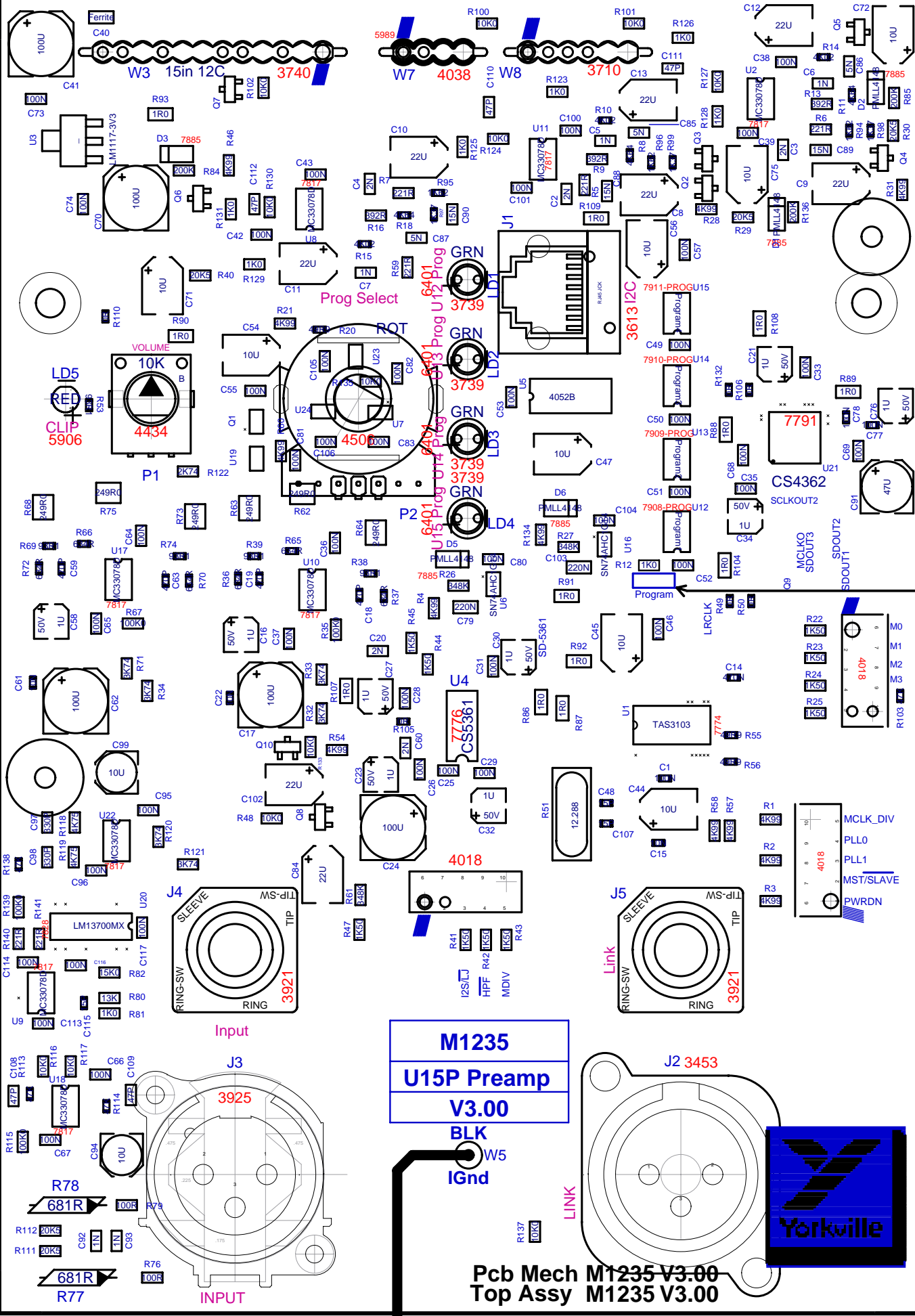


M1235 PRODUCTION NOTES

1. Do not stuff (DNS) Q9 when U21 is a CS4362. *Only stuff Q9 when U21 is CS4362A to provide 2.5V.
2. DNS W1, W2, W6, and J1.
3. When using CS4362A, replace R49 & R50 with 49R9 (7781).
4. For programming short the two vias in the Program box
5. DO NOT STUFF J4 OR J5 FOR S4P. ONLY STUFF J4 AND J5 FOR U15P

M1235 Database History			
MODEL(S):-		U15P	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	2FEB2006	P3	Updated ribbons, move parts under encoder legs, fixed output stages, fixed input limiter
2	D	V	
3	D	V	Updated diode packages to SOD80, change R133 100k->10k
4	8MAR2006	P3	R84,85,136 100k->200k
5	D	V	PC#7191, #4038 CHANGE LENGTH FROM 14" TO 18"
6	NOV/22/2006	2.00	PC#7182 ADD SOLDER PADS TO PT#4580 ENCODER
7	D	V	PC#7183, Change #4580 Encoder from 18 mm 17mm
8	Mar 3, 2008	2V00	PC#7434 Updated encoder, moved traces around it, FU board
9	Oct 13, 2009	2V00	PC7816: Add 4 solder bridges on U12, U13, U14 and U15
10	Oct 14, 2009	3V00	PC7816: Add R12 #7621 and Program box
11	16-FEB-2010	4V00	PC7945: Moved C72, C12, C76, C91 inwards. PC7757. GG
12	18-FEB-2010	.	Replaced ribbon cables with XH conn and cables GG
13	D	V	N

1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N



SEE NOTE 4

M1235
U15P Preamp
V3.00
BLK

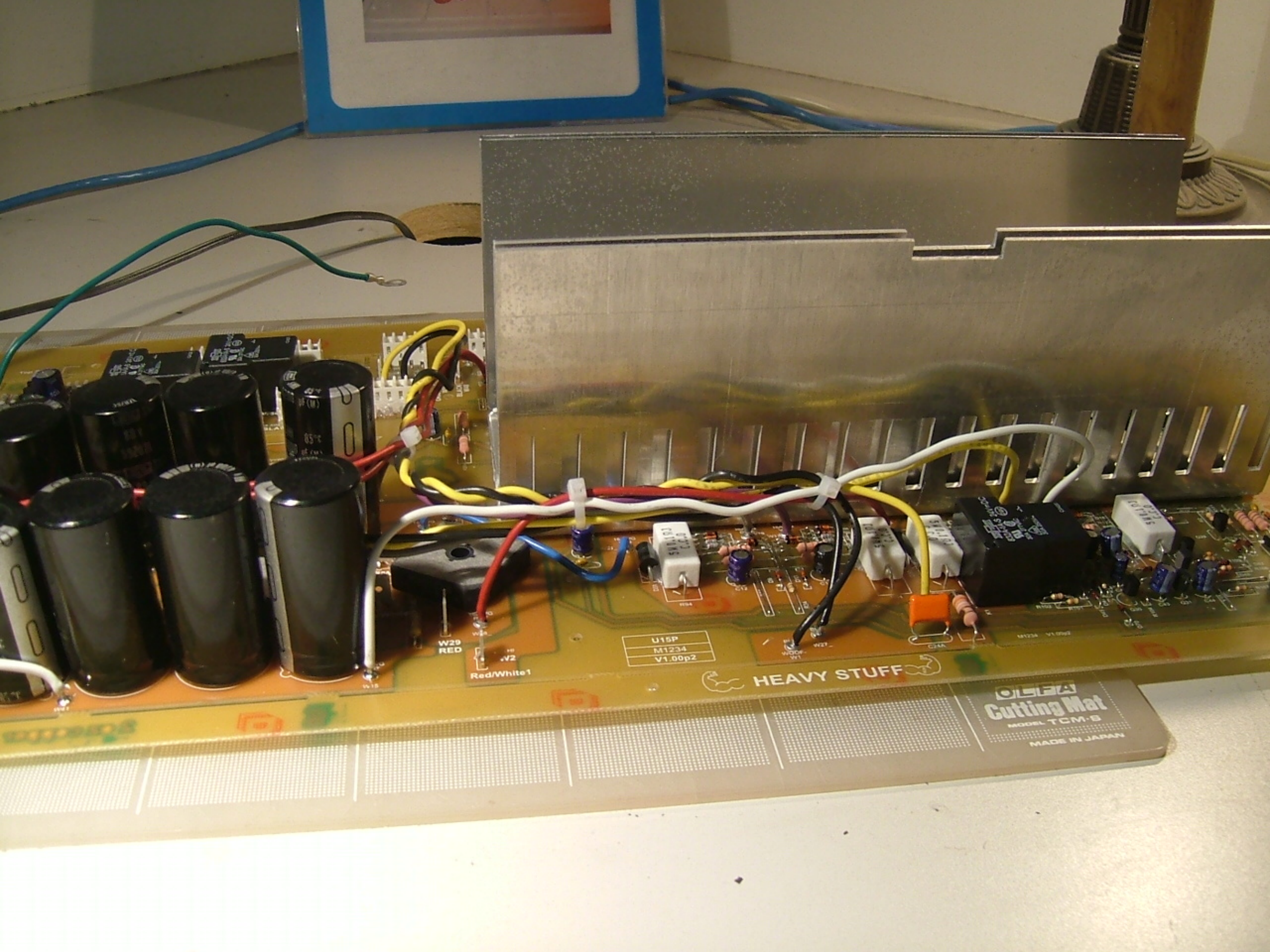
I Gnd
W5

Pcb Mech M1235 V3.00
Top Assy M1235 V3.00



SEE LAYOUT DOCUMENTATION

To LoAmp I Gnd

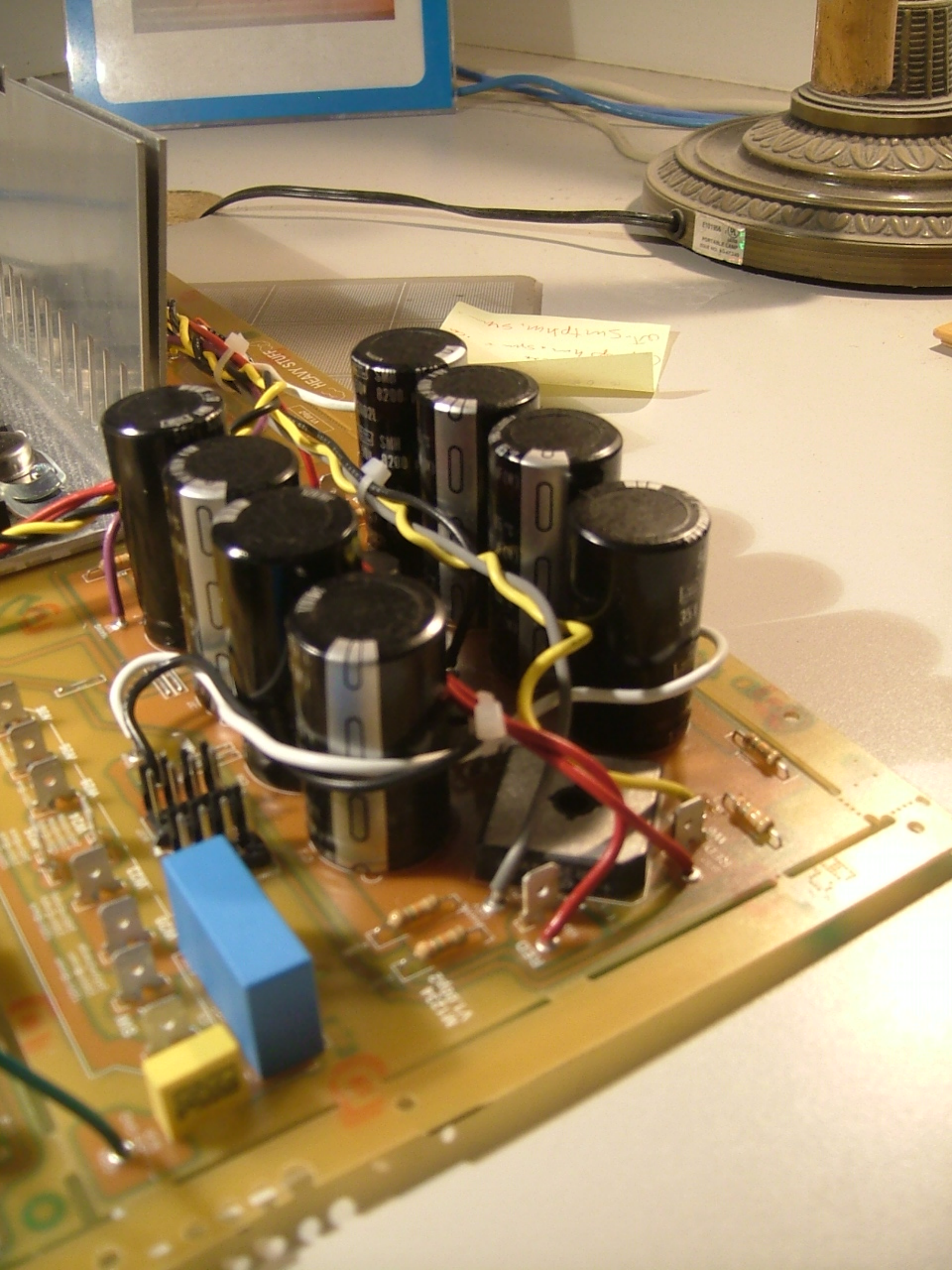




HEAVY STUFF

0.15
0.154
0.152

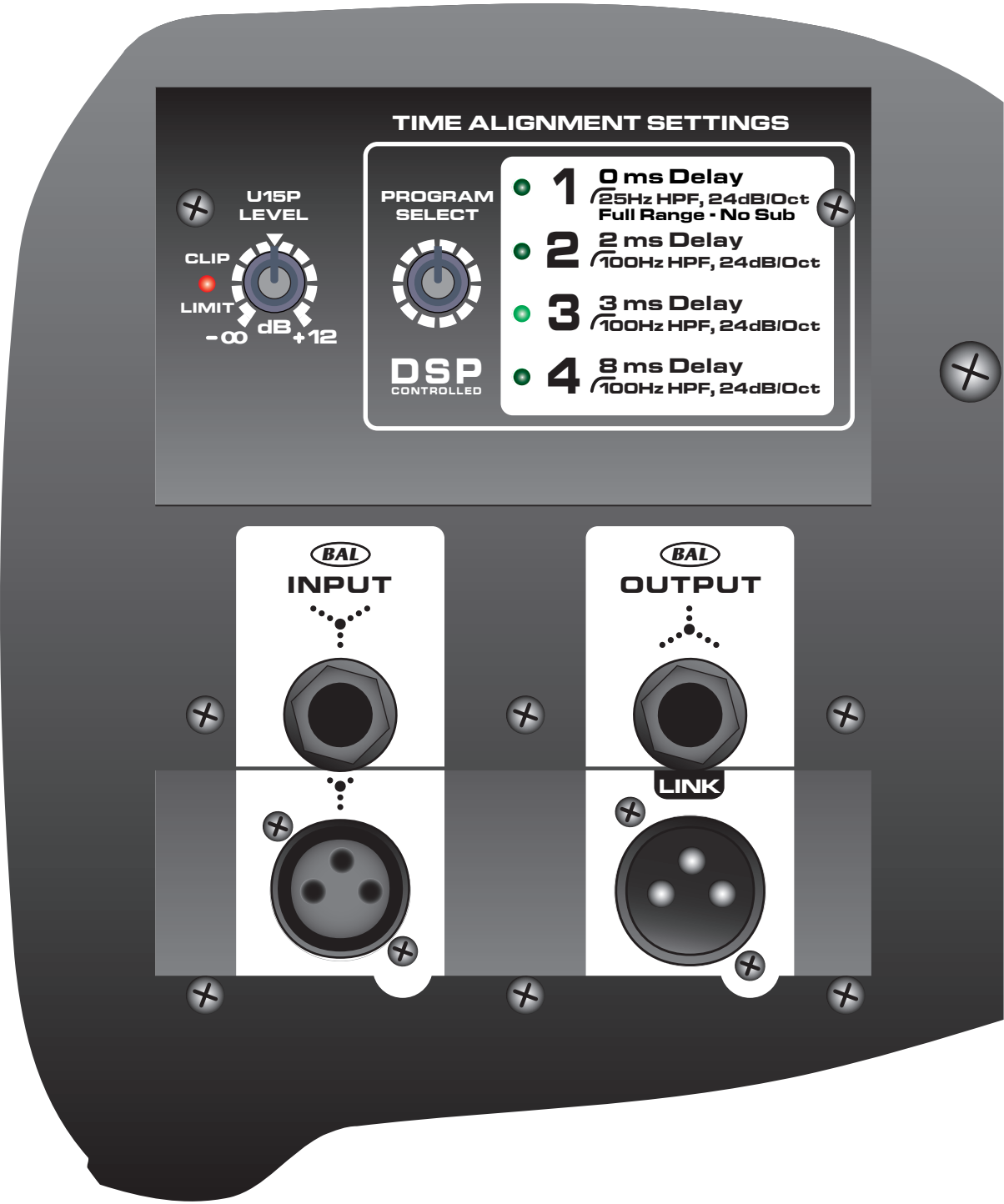
54102L
35V 12000µF
54102L



OT-Smtpm, SM
- 4m + 5m + 2m
- 2m + 2m + 2m

1000VA
250V

1000VA
250V



YS#8393 Grey Knob (qty: 2)