



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'amplitude 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.



S2125A

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.

Veuillez 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 boite au cas où l'appareil devait être retourné 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 électriques, 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 attaches/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 connection extérieure doivent être effectivés 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 désuete 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.

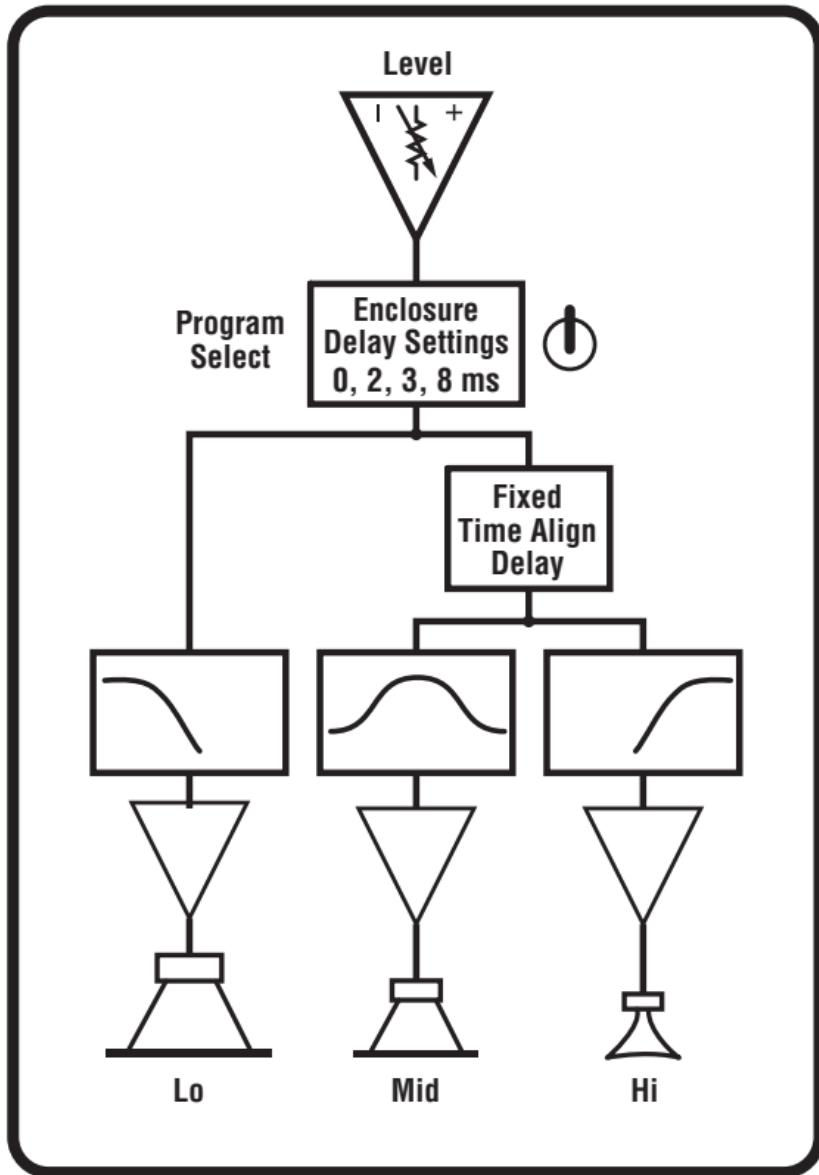
Débranchez cet appareil durant les orages ou si inutilisé pendant de longues périodes.

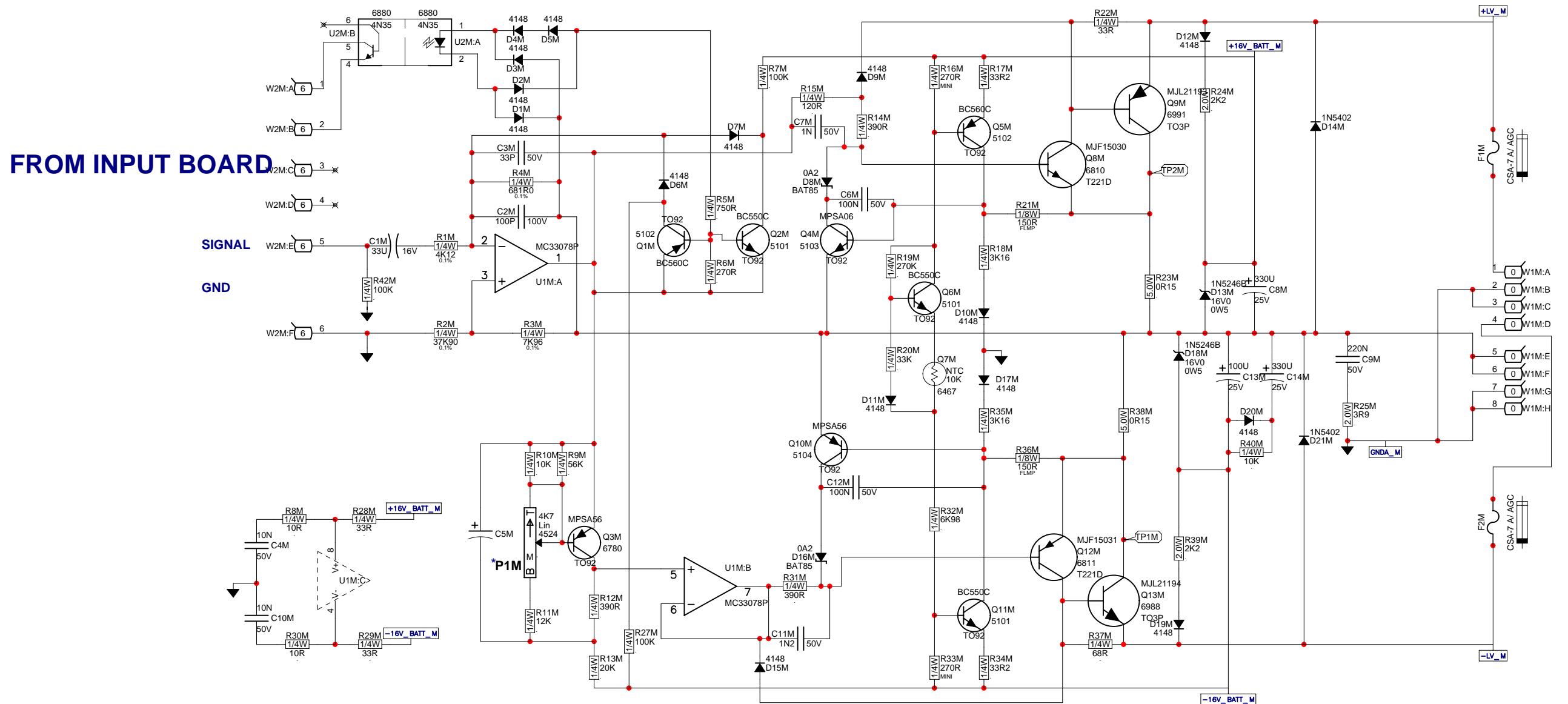
Service

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.

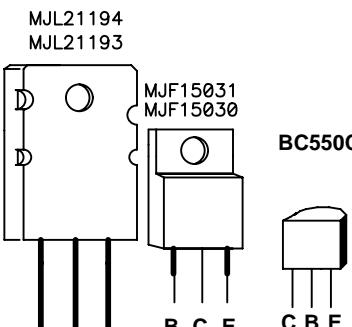
U15P Parts List 11/9/2012

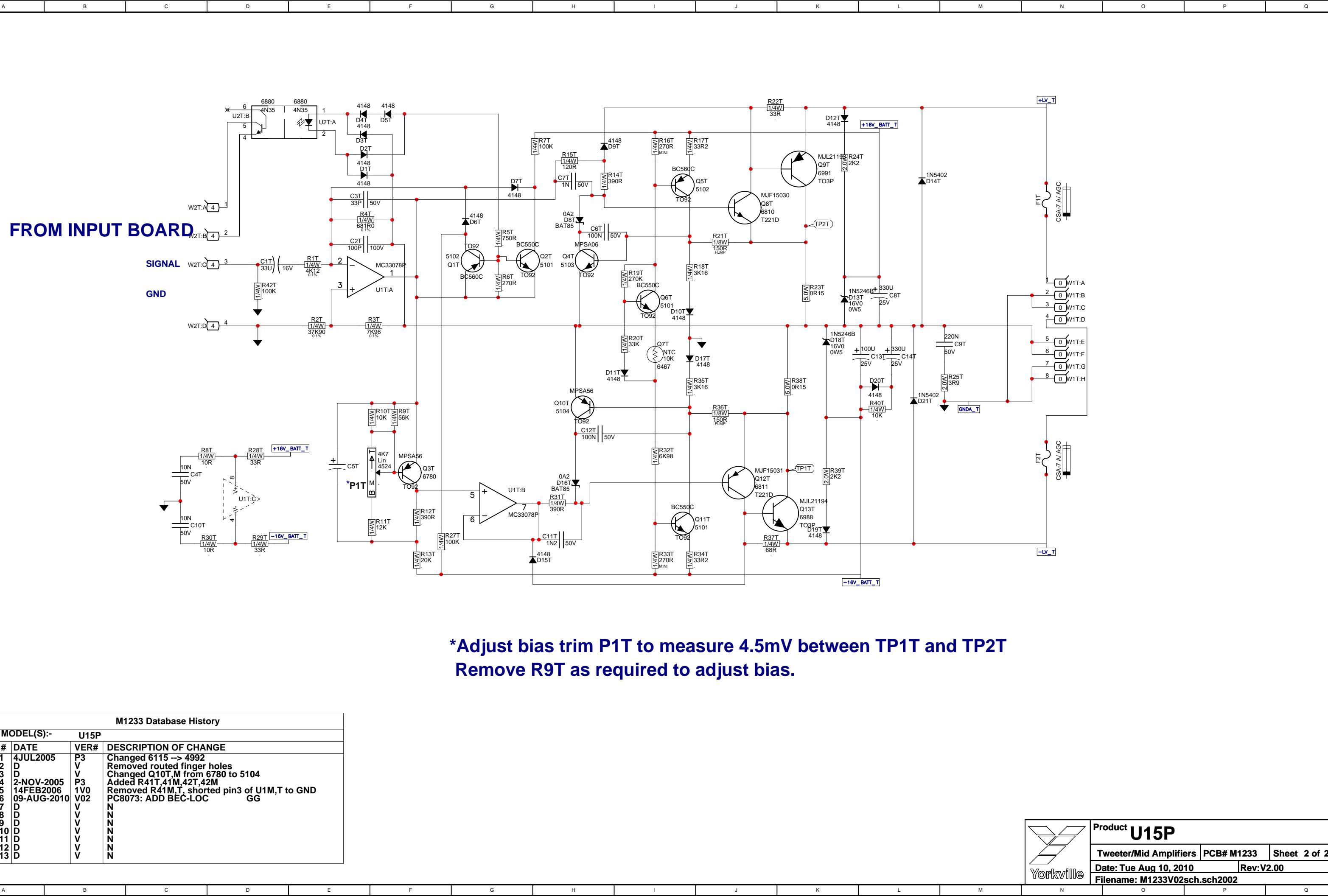
YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
5906	RED .3MM LED 1V 20MA 4SPCR T&R	1	4520	100 AMP TRIM POT	1	4604	1/4W 33R 1% T&R RES	4	8770	1/4-20 X 1 5/16 TRUSS PH MS JS500	12	8482	3/8 1D FLAT WASHER	2
6408	GRN .3MM LED 1V 5MA FROSTED	4	2408	8.00 AMP CIRCUIT BREAKER	1	2016	1/6W 39R 2%FLAME PROOF T&R RES	2	8709	1/4-20 X 1 5 PAN PHIL MS ZINC CLEAR	4	3511	#6 FLAT WASHER NYLON	1
6419	BRIDGE 35A 400V WIRE LEAD G13504	3	706	1/2"X4"X250" DURABUBBLE	38	4811	1/4W 68R 5% T&R RES	2	8730	M6 X 16 HEX BOLT ZINC	2	8485	#6 SPLIT WASHER ZINC	1
6425	BAV21 200V 0425 DIODE T&R	10	713	25 X 20 X 50 2 MIL PLASTIC BAG	1	2019	1/8W 100R 1%FLAME PROOF T&R RES	10	7766	15P 50V 5%CAP 0603 SMT NPO	3	8818	3/4 OD X 3/8 ID X .080 THICK WASHER	2
6825	1N4148 75V 0445 DIODE T&R	54	8467	2X2-IB 3/8" FLYING HARDWARE BRACKET	4	4897	1/4W 120R 5% T&R RES	2	7813	.47P 50V 5%CAP 0805 SMT NPO	5	3585	DPDT ROKR SW QUIK 250° AC/PWR IEC65	1
6892	UF4004 200V 1A0 DIODE ULTRAFAS	2	8483	ADAPTER, SPEAKER STAND, METAL BLACK	1	2020	1/6W 150R 2%FLAME PROOF T&R RES	4	7602	330P 50V 5%CAP 0805 SMT NPO	2	3392	250 MALE TAB .2IN T&R	28
6827	1N5402 200V 3A0 DIODE	4	8547	PLASTIC FOOT BLACK POLYETHYLENE	4	2023	1/6W 220R 1%FLAME PROOF T&R RES	4	7782	.47P 50V 5%CAP 0603 SMT COG	4	3887	ADHESIVE LINED GROMMET EDGING	4
6932	MR854 400V 3A0 DIODE FASREC	10	8562	CORNER 3 LEGS, BLACK POWDER COAT	2	4867	1/4W 270R 5% T&R RES	2	7693	1N 50V 5%CAP 0805 SMT NPO	5	CH1403U	XFMR:U15P	1
6733	BAT85 30V 0A0 DIODE SCHOTTKY T&R	6	8569	CORNER 2 LEGS/NO LIP BLACK POWDER C	6	4986	1/4W 270R 5%MINI T&R RES	4	7783	2N7 100V 10%CAP 0805 SMT COG	5			
6436	1N753ARL .6V2 0W5 ZENER 5% T&R	1	3489	CLIP 250X032 18-22AWG DISCO/INSL	12	4872	1/4W 39R 5% T&R RES	6	7799	5N1 50V 5%CAP 0805 SMT COG	3			
6437	1N5237B .8V2 0W5 ZENER 5% T&R	1	3490	CLIP 250X032 14-16AWG DISCO/INSL	17	4980	1/4W 470R 5%MINI T&R RES	1	7777	10N 25V 10%CAP 0603 SMT X7R	3			
6439	1N5256B .3V0 0W5 ZENER 5% T&R	2	3491	CLIP 205/187X020 18-22AWG DISCO/INSL	1	2030	1/6W 68R 1%FLAME PROOF T&R RES	4	7798	15N 50V 5%CAP 0805 SMT COG	3			
6440	1N750ARL .4V7 0W5 ZENER 5% T&R	1	3494	CLIP 205/187X020 14-16AWG DISCO/INSL	2	4743	1/4W 681R 0.1%*** T&R RES	2	7613	10N 25V 10%CAP 0805 SMT X7R	44			
6450	1N5242B .12V0 0W5 ZENER 5% T&R	3	3601	RING TERMINAL 16AWG WIRE & #8 SCREW	2	4869	1/4W 750R 5% T&R RES	2	7767	10N 16V 10%CAP 0603 SMT X7R	3			
6465	1N5250B .20V0 0W5 ZENER 5% T&R	1	3921	1/4" JCK PCB MT VERT STER RT SWT	2	2033	1/6W 2%FLAME PROOF T&R RES	2	7601	220N 50V 10%CAP 1206 SMT Z5U	2			
6486	1N5244A .14V0 0W5 ZENER 5% T&R	3	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	1	4981	1/4W 1K 5%MINI T&R RES	2	7778	470N 10V 10%CAP 0603 SMT X6R	1			
6824	1N5246B .16V0 0W5 ZENER 5% T&R	14	4100	TLR MALE PCB MT VERT	1	6110	1/4W 1K 1%MINI MF T&R RES	1	7769	.1U 50V 20%CAP 4.3X3.9 SMT ELC	9			
6738	MC7805CT TO220 P 5V0 REG 36V	1	4056	2 CIR XH-HEADER	0.098IN	4802	1/4W 1K21 1% T&R RES	1	7780	.1U 16V 20%CAP 5X5.5 SMT NP	2			
6871	MC7915CT TO220 P 15V0 REG V2	1	2337	4 CIR XH-HEADER	0.098IN	6105	1/4W 1K8 5%MINI T&R RES	2	7697	.22U 16V 5%CAP 5X5.5 SMT ELC	8			
6872	MC7815CT TO220 P 15V0 REG V1	1	2357	4 CIR XH-HEADER RA	0.098IN	6113	1/4W 2K 5%MINI T&R RES	4	7810	.47U 16V 20%CAP 6X4.5 SMT ELE	1			
5101	BC550C TO92 NPN TRAN T&R TB	12	2327	6 CIR XH-HEADER RA	0.098IN	4765	2.0W 2K2 5% T&R RES	2	7811	100U 25V 20%CAP 8X5.4 SMT ELE	5			
5102	BC560C TO92 PNP TRAN T&R TB	6	2343	6 CIR XH-HEADER RA	0.098IN	6124	1/4W 2K2 5%MINI T&R RES	2	7885	PMLL4148 75V 0A2 SOD80C SMT	5			
5103	MPSA04 TO92 NPN TRAN T&R TA	4	2329	12 CIR XH-HEADER	0.098IN	6104	1/4W 2K2 5%MINI T&R RES	2	7754	FERRITE BEAD 1A5 26R SMT 1206	1			
5104	MPSA55 TO92 NPN TRAN T&R TA	3	3058	PATCH 04 22AWG 18.0 XH FLAT	1	6124	1/4W 3K 5%MINI T&R RES	2	7774	TAS3108 AUDIO PROC W/FX SMT IC	1			
5107	N20551 TO92 NPN TRAN T&R TA	1	3061	PATCH 06 22AWG 23.0 XH FLAT	1	4992	1/4W 3K1 1% T&R RES	5	7776	CS5361 ADC SMT IC	1			
5108	N205401 TO92 NPN TRAN T&R TA	2	3041	PATCH 12 22AWG 26.0 XH FLAT	1	6136	1/4W 4K3 5%MINI T&R RES	1	7776	CS4362 6-CH DAC SMT LOF48	1			
5113	MPA42 TO92 NPN TRAN T&R TA	1	3818	EM SUPPRESSION FERRITE BEAD T&R	2	4850	1/4W 3K9 5% T&R RES	2	7828	LM1370M XCNDUCTANC AMP SMT IC	1			
6780	MPA56 TO92 PNP TRAN TA	2	3414	INTERNATIONAL PC MOUNT FUSEHOLDER	8	4756	1/4W 1K2 0.1%*** T&R RES	1	7818	LM1117 REGULATOR 3V3 SMT SOT223	1			
5105	MPA13 TO92 NPN DARL T&R TA	5	4054	FAN 80MM X 80MM 31CFM 12VDC 150MA	2	4943	1/4W 4K7 5% 2U T&R RES	1	7818	CD4052B DUAL 4CH MUX SMT IC	1			
5106	MPA63 TO92 PNP DARL T&R TA	1	2465	L70 AMP FAST-BLO 25X125 FUSE	4	4982	1/4W 4K7 5%MINI T&R RES	6	7786	SN74AHC1G08 SINGLE AND SMT SOT235	1			
6808	MJE15032 TO220 NPN TRAN TE	1	8565	BAR HANDLE ALL METAL RECTANGULAR	2	6128	1/4W 4K99 1%MINI MF T&R RES	4	7789	SN74AHC1G14 SINGLE INV SMT SOT235	1			
6809	MJE15033 TO220 NPN TRAN TE	1	7402	.8W 45W 1.0° DRIVER 4550-PR BMS	1	4717	1/4W 6K19 1%MINI T&R RES	2	7790	TPS3825-33 RESET SENSE SMT SOT235	1			
6810	MJF15030 T221D NPN TRAN TJ	2	3894	HEATSKIN TO-220 W/T BLACK ANODIZE	2	4801	1/4W 7K96 1% T&R RES	2	7792	SN74AHC1G14 SINGLE INV SMT SOT235	3			
6811	MJF15031 T221D PNP TRAN TJ	2	3745	DUAL XSISITOR PBL SPRING CLEAR ZINC	4	4781	1/4W 7K960 0.1%*** T&R RES	2	7812	SN74AHC1G86 SINGLE XOR SMT SOT235	2			
6873	MJE340 TO126 NPN TRAN TG	1	3977	QUAD XSISITOR SPRING, ZINC YELLOW	4	4826	1/4W 10K 5% T&R RES	4	7908-PROG	AT24C64A SERIAL EEPROM 64K P1U12Y30	1			
6874	MJE350 TO126 PNP TRAN TG	1	8721	3/8-16X114 GRD5 FLAT SCKT HD JS500	8	5031	1.0W 10K0 5% T&R RES	10	7909-PROG	AT24C64A SERIAL EEPROM 64K P2U13Y30	1			
6916	TIPI07 TO220 PNP TRAN DARL TE	1	9897	SPEAKER COVER BLACK POLYPRO, 54° W	25	6116	1/4W 1K1 1%MINI MF T&R RES	8	7910-PROG	AT24C64A SERIAL EEPROM 64K P1U14Y30	1			
6953	IRF4905 TO220 PCH MFET	4	3552	NYLON SPRING CLAMP	1	4856	1/4W 12K 5% T&R RES	2	7911-PROG	AT24C64A SERIAL EEPROM 64K P4U15Y30	1			
6966	IRL2910 NCH MFET 100V TN	4	3799	ROUND BUMPER BUTTON BLACK	1	4630	1/2W 15K 5% T&R RES	6	7817	33078 DUAL OPAMP SMT SO-8	8			
6909	MJ21916 TO3 NPN TRAN TH	2	3801	5/8" BUMPER BUTTON BLACK	4	4979	1/4W 15K 5%MINI T&R RES	3	7808	12.288 CRYSTAL 2-PIN 4.5MM SMT	1			
6988	MJL21194 TO3P NPN TRAN TK	2	3803	NYLON SECUR-A-TACH MINI PLASTIC TIE	1	4884	1/4W 20K 5% T&R RES	3	7803	0W063 0R 1% 0603 SMT RES	6			
6991	MJL21193 TO3P PNP TRAN TK	2	3810	4" NYLON CABLE TIE	4	4777	1/4W 21K5 1% T&R RES	1	7801	0W125 1R0 5% 1206 SMT RES	12			
6910	MJ21195 TO3 PNP TRAN TH	2	3852	STICK ON CABLE WRAP ANCHOR	1	6116	1/4W 22K 5%MINI T&R RES	4	7781	0W063 49R9 1% 0603 SMT RES	3			
6840	MC33078P IC DUAL OP AMP	2	2	H32 HOR 400V 15 CABINET-	1	6128	1/4W 27K 5%MINI T&R RES	1	7785	0W100 93R1 1% 0603 SMT RES	5			
6882	TL072CP IC FET DUAL OP AMP	2	4024	PIPE INSULATE TUBE 3/8" BLACK FOAM	1.5	4840	1/4W 33K 5% T&R RES	2	7624	0W100 100R 1% 0805 SMT RES	2			
6889	TL074CN IC QUAD O/I T.I. ONLY	1	3903	PCB CONN 4 CIR BOTL 156	6	6122	1/4W 33K 5%MINI T&R RES	2	7635	0W100 221R 1% 0805 SMT RES	6			
6880	4N35 OPTO-COUPLER	2	3558	TERM HOUSING 4 CIR .156/RAMP	2	4865	1/4W 36K 5% T&R RES	2	7690	0W33249R0 1% 1210 SMT RES	6			
6467	10K 10% THERMISTOR TO-92 NTC	2	3559	TERM HOUSING 8 CIR .156/RAMP	2	4794	1/4W 37K9 0.1%*** T&R RES	2	7640	0W100 392R 1% 0805 SMT RES	3			
6619	10K 3% THERMISTOR VISH NTC	1	3668	4 CIR CHASSIS MOUNT HDR .156	3	6119	1/4W 47K 5%MINI T&R RES	6	7784	0W063 634R 1% 0603 SMT RES	6			
5406	.33P 50V 10%CAP BLK BEAD NPO	2	3534	24 PIN BREAKAWAY LOCK .156	1.167	4834	1/4W 56 5% T&R RES	2	7621	0W100 1K0 1% 0805 SMT RES	8			
5199	100P 100%CAP T&R RAD CER.2NPO	6	3544	TRIFURCON TERM .156	20	4844	1/4W 52 5% T&R RES	2	7796	0W063 1K37 1% 0603 SMT RES	3			
5416	470P 50V 10%CAP T&R BEAD NPO	3	9916	KNOB 0-DEC GRY SOFT GRAY RIB	2	4834	1/4W 100K 5% T&R RES	6	7649	0W125 1K50 1% 0805 SMT RES	10			
5422	1N 50V 10%CAP T&R BEAD NPO	2	3426	3/16 SJT AC LINE CORD REMOVABLE-CSA	1	6120	1/4W 100K 5%MINI T&R RES	1	7793	0W063 1K62 1% 0603 SMT RES	3			
5423	1N2 50V 10%CAP T&R BEAD X7R	2	8254D	"Y" LOGO UNITY SERIES LARGE DOMED	1	4991	1/4W 13K 1%MINI T&R RES	2	7633	0W100 2K74 1% 0805 SMT RES	1			
5273	1N5 200V 5%CAP T&R RAD CER 2NPO	1	8701	4.40 KEPS NUT ZINC	4	6126	1/4W 220K 5%MINI T&R RES	3	7638	0W100 3K74 1% 0805 SMT RES	6			
6451	.4N7 250V 20%CAP BLK Y' 10MM AC	1	8760	6-32 KEPS NUT TIN PLATED	8	4879	1/4W 27K0 5% T&R RES	2	7795	0W063 4K02 1% 0603 SMT RES	3			
5300	10N 50V 10%CAP T&R BEAD X7R	4	8800	6-32 KEPS NUT ZINC	8	4809	1/4W 10M 5% T&R RES	1	7794	0W063 4K64 1% 0603 SMT RES	3			
5210	.22N 100V 10%CAP T&R RAD .2FLM	3	9931	6-32 NYLON INSERT LOCK NUT	16	4751	1/4W 22M 5% T&R RES	1	7642	0W100 4K75 1% 0805 SMT RES	2			
5840	22N 400V 10%CAP BLK RAD POLY FLM	1	8930	#6 X#8 1/4" TWISTER ANCHOR	6	3722	RELAY 1A 300MP 24 036MA PC-C	3	7679	0W100 4K99 1% 0805 SMT RES	13			
5212	100N 63V 5%CAP T&R RAD .2FLM	5	8600	10-32 T NUT	8	8842	#5 X 16 PAN QUAD TYPE A JS500 BLK	4	7625	0W100 10K0 1% 0805 SMT RES	12			
5314	100N 50V 10%CAP T&R BEAD X7R	8	8841	10-32 KEPS NUT TIN PLATED	14	8811	#6 X 1/4 FLAT HD SQK WTS ZN CL	44	7627	0W100 13K 1% 0805 SMT RES	1			
5318	22N 50V 10%CAP T&R BEAD X7R	2	8602	14-20 T NUT	12	8783	#8 X 3/4 OVAL PH TYPE A BLACK OXIDE	19	7628	0W100 15K0 1% 0805 SMT RES	1			
5266	680N 250V 20%CAP BLK X'20' 3MM AC	1	8788	1/4-20 CAGE NUT ZINC	4	8753	#10 X 1/2 PAN QUAD TY A JS500 BLACK	1	7634	0W100 20K5 1% 0805 SMT RES	5			
5256	.1U 63V 5%CAP T&R RAD 2FLM	3	8884	1/4-20 CAGE NUT C79 98142027	4	8756	#10 X 3/4 PAN PH TYPE A BLACK OXIDE	44	7797	0W063 47K 1% 0603 SMT RES	4			
5257	.2U 63V 20%CAP T&R RAD .2EL	6	8797	5/16-18 KEPS NUT JS500	1	8781	#10 X 7/8 FLAT QUAD TYPE A JS500BLK	4	7626	0W100 100K 1% 0805 SMT RES				





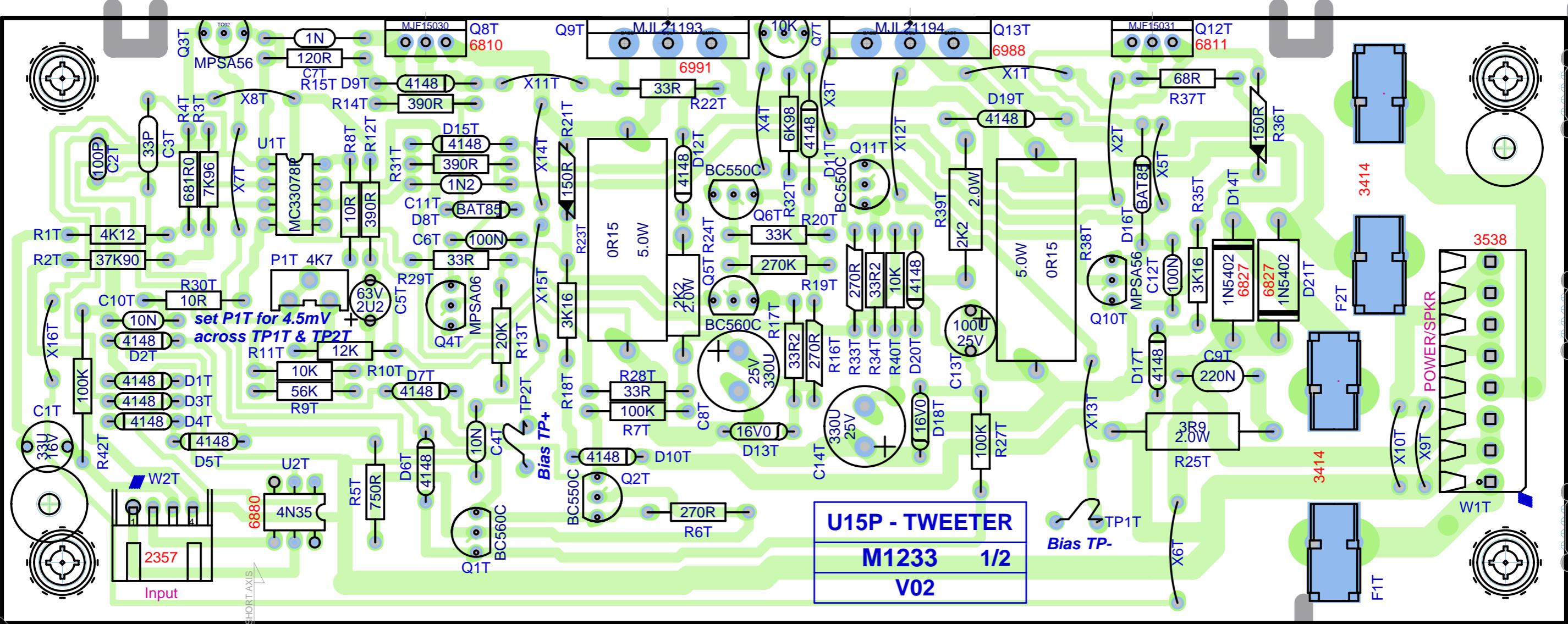
*** Adjust bias trim P1M to measure 4.5mV between TP1M and TP2M
Remove R9M as required to adjust bias.**





put goop on Q3T

put goop on Q7T



CLINCH
ORIGIN



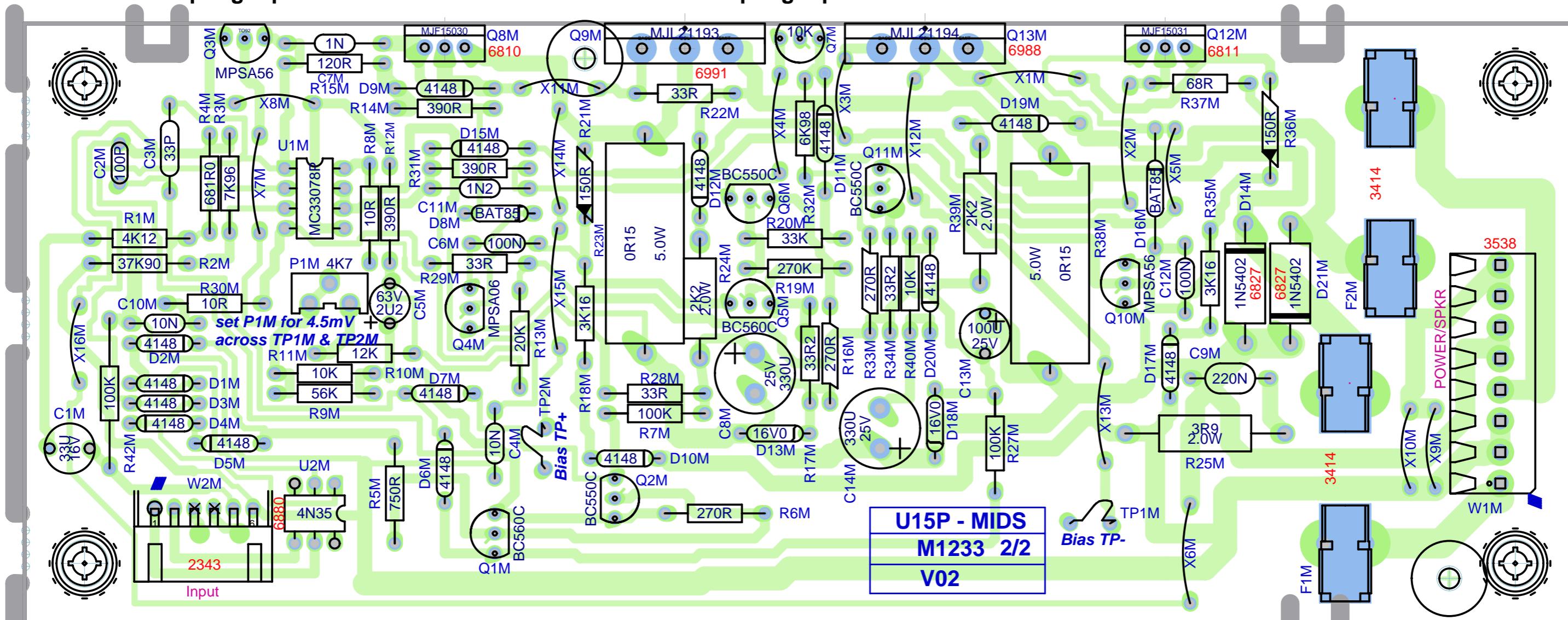
M1233V02
M1233V02

2023-2024

 SEE LAYOUT DOCUMENTATION 

put goop on Q3M

put goop on Q7M



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

SEE LAYOUT DOCUMENTATION



SEE LAYOUT DIAGRAM



M1233 REVISION 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

M1233 DRILL HISTORY

MODEL(S):- U15P

#	DATE	VER#	DESCRIPTION OF CHANGE
1	09-NOV-09	V02	Update board for Crimp
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N

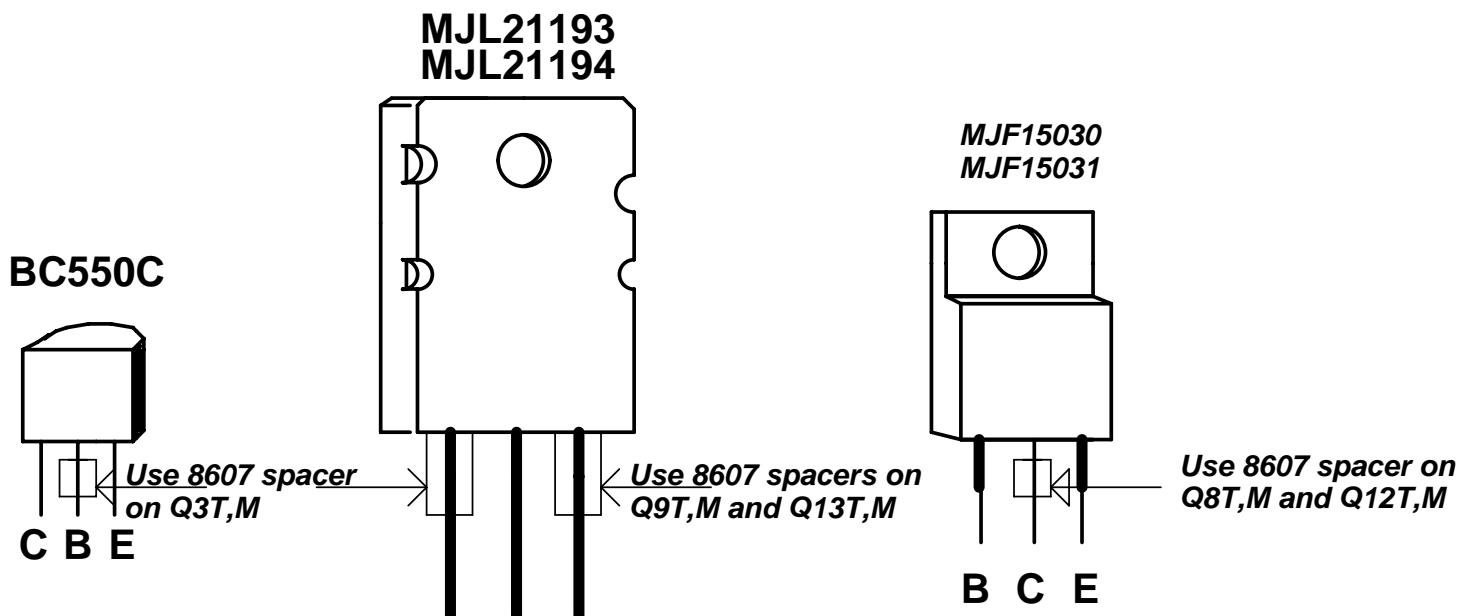
M1233 PENDING LIST

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

M1233 PRODUCTION NOTES

1. ADD SPACERS TO TRANSISTORS

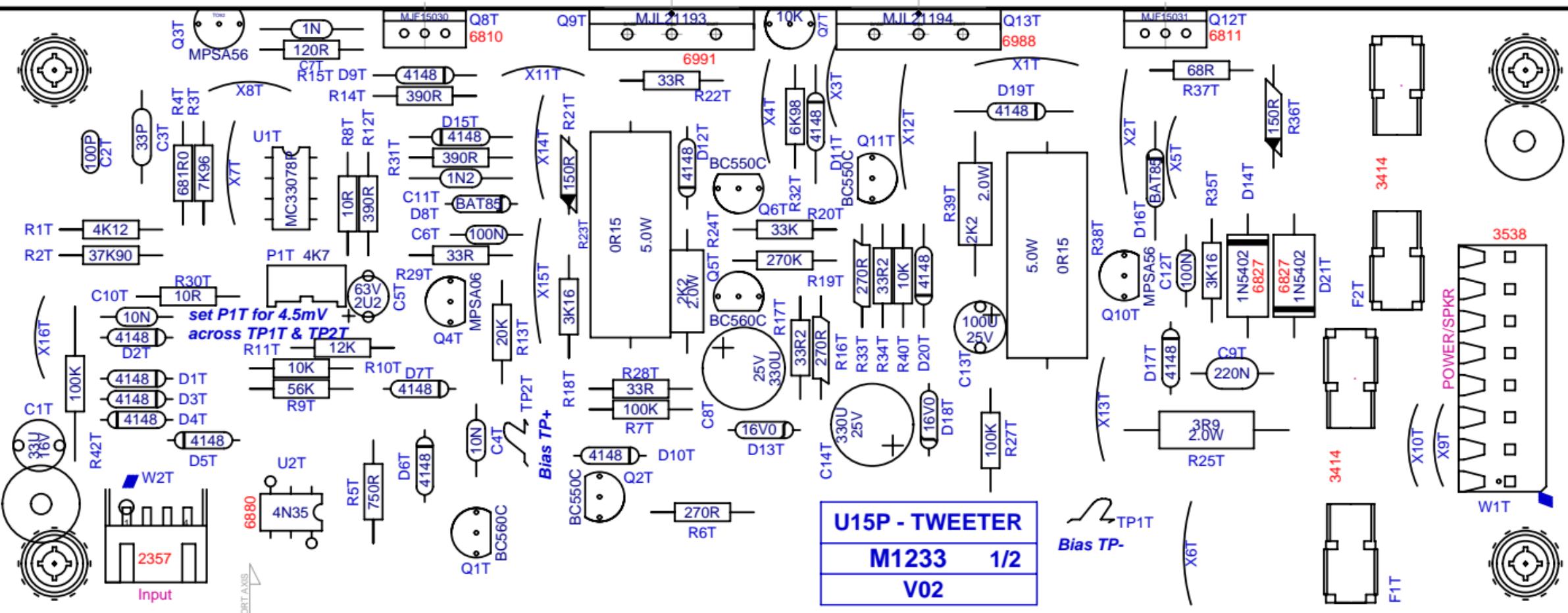


2. Q3T AND Q3M ARE HAND INSERTED

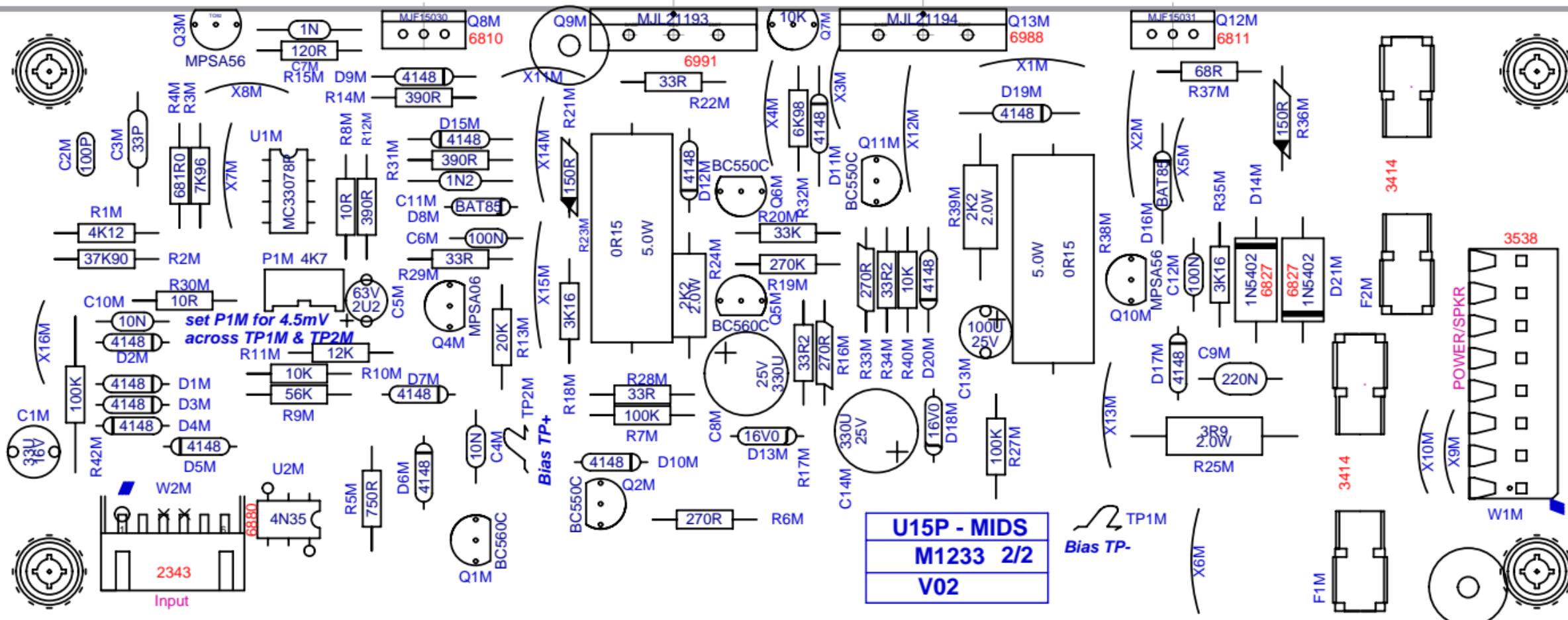
3. Q3T, Q3M, Q7T, Q7M NEED TO BE GOOPED BEFORE BOARD IS BOLTED TO HEATSINK

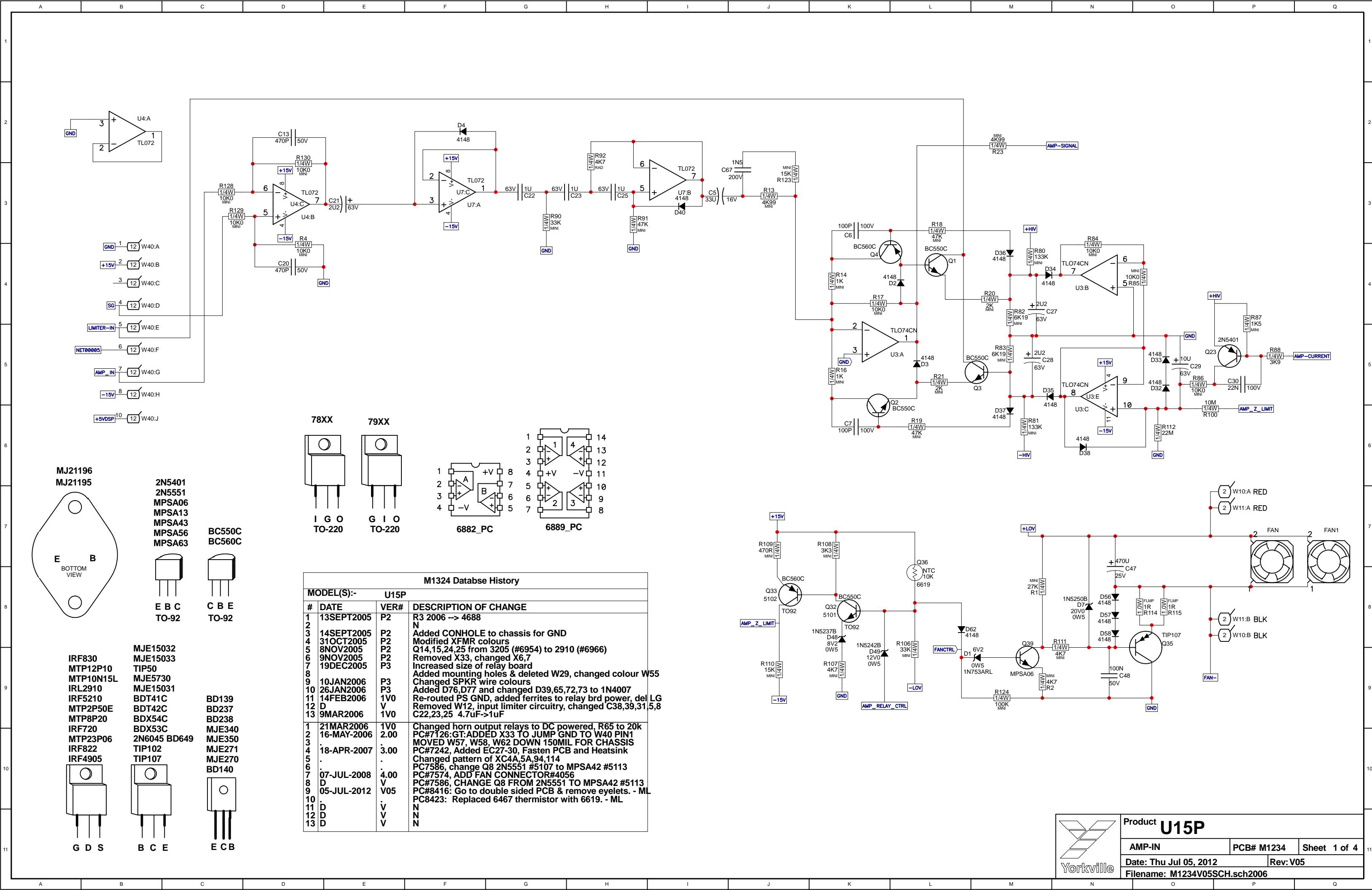
4. BLANKSIZE & TOOLING HOLES MUST BE EXACT OR ELSE BOARD IS UNTESTABLE ON FIXTURE

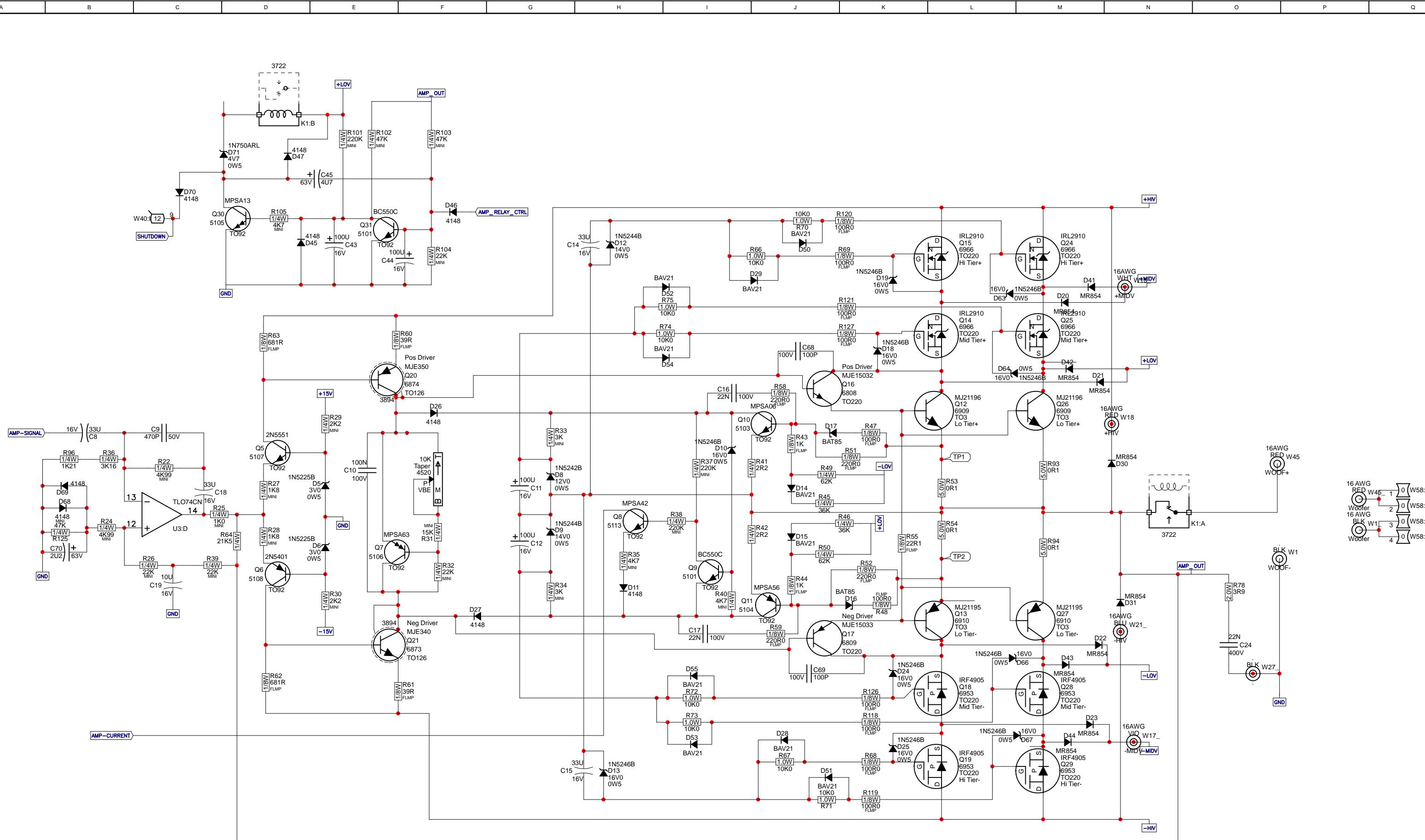
put goop on Q31



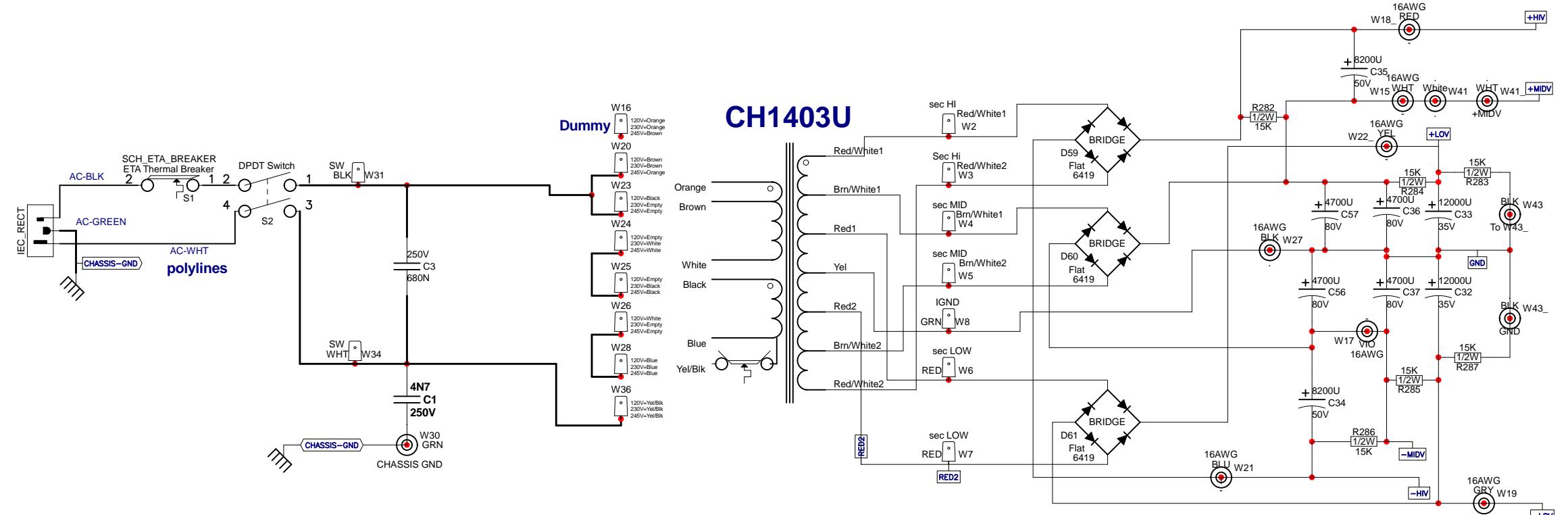
put goop on Q3N







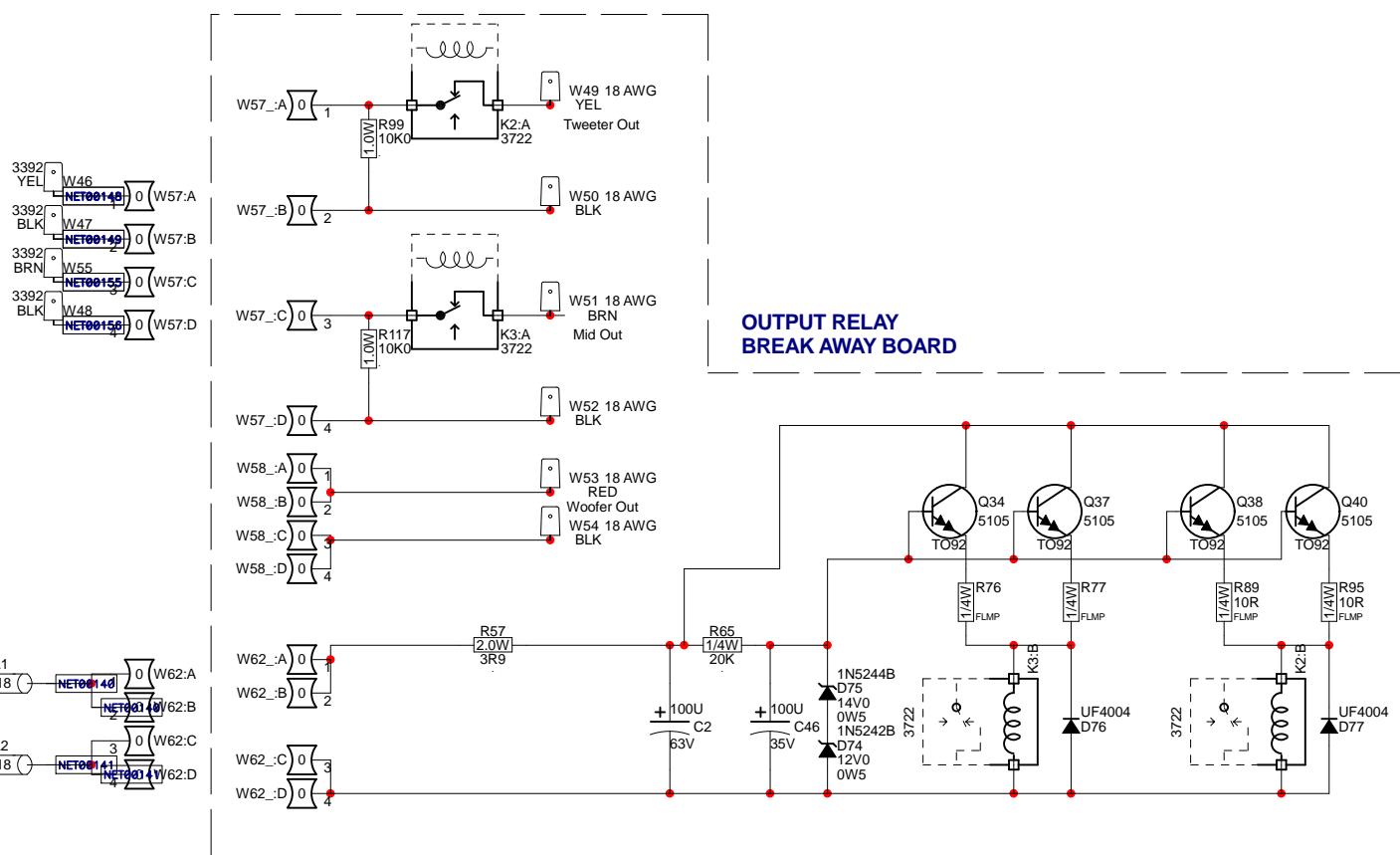
Product	U15P		
AMP	PCB# M1234	Sheet 2 of 4	
Date: Thu Jul 05, 2012		Rev: V05	
Filename: M1234V05SCH.sch2006			



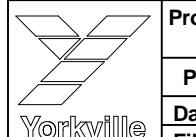
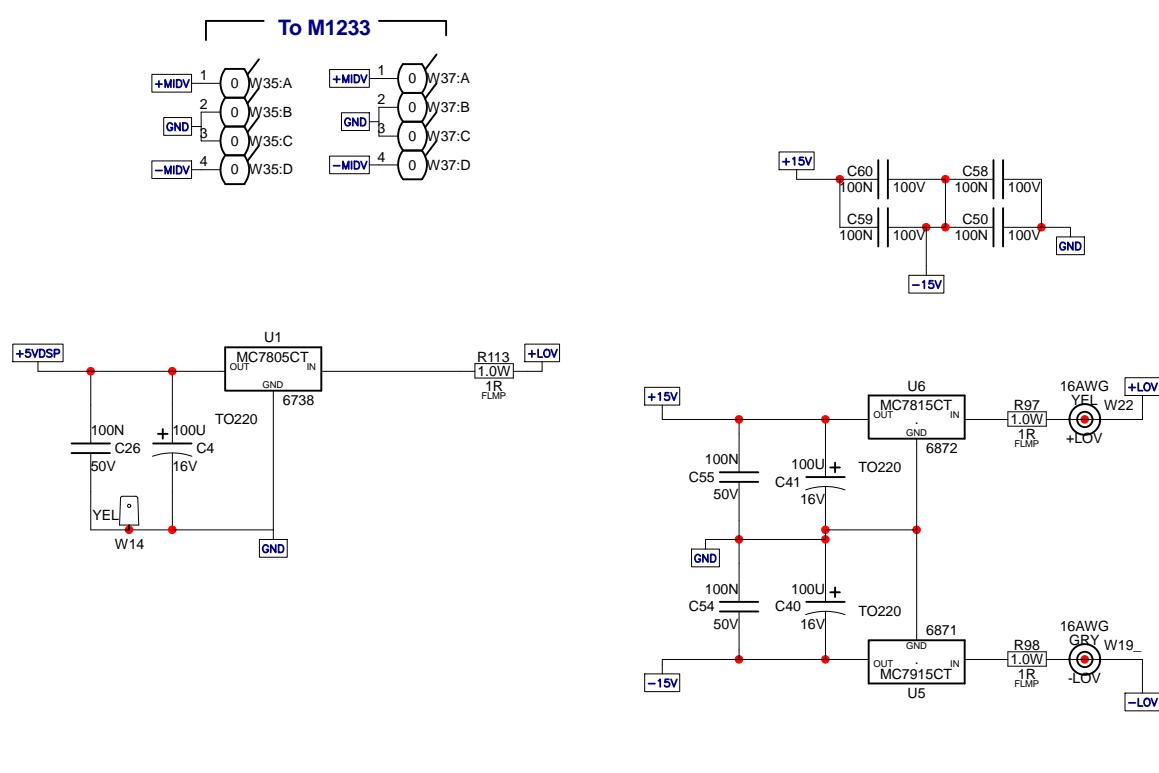
NO LOAD VOLTAGES

LOV	+/- 30.5 Vdc
MIDV	+/- 64 Vdc
HIV	+/- 98.5 Vdc

From Tweeter & Mid Boards



OUTPUT RELAY BREAK AWAY BOARD



Product U15P

POWER SUPPLY PCB# M1234 Sheet 3 of 4

Date: Thu Jul 05, 2012 | Rev: V05

filename: M1234V05SCH.sch2006

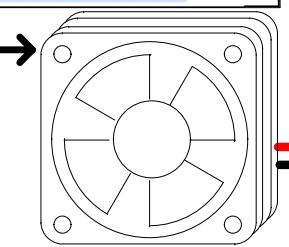
BlankSize - 18000x9000

M1234 V05

U15P

SEE LAYOUT DOCUMENTATION

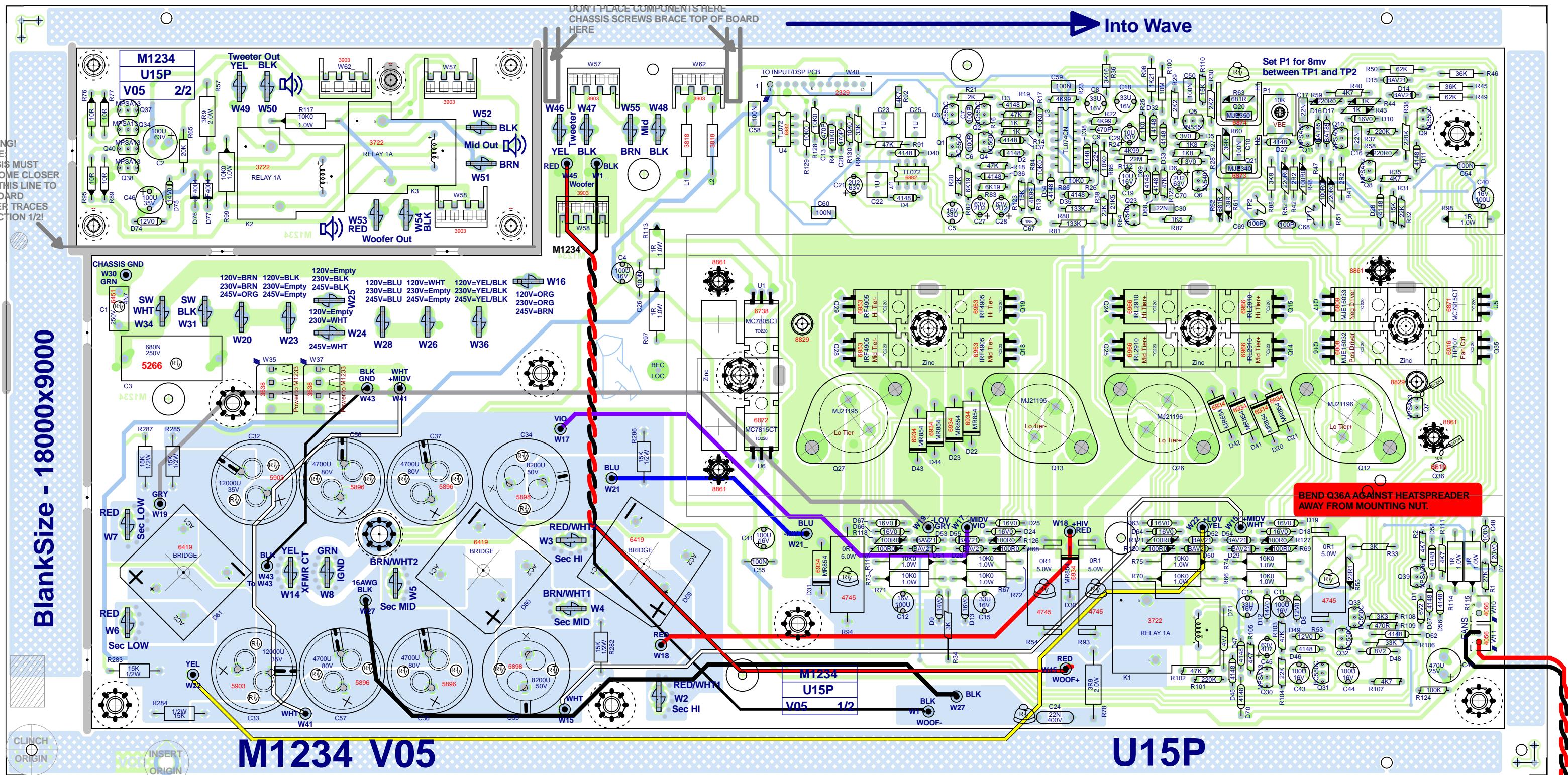
Two fans—



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

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

► Into Wave





SEE LAYOUT DIAGRAM



M1234 V05

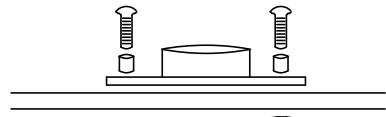
PRODUCTION NOTES

Board Assembly

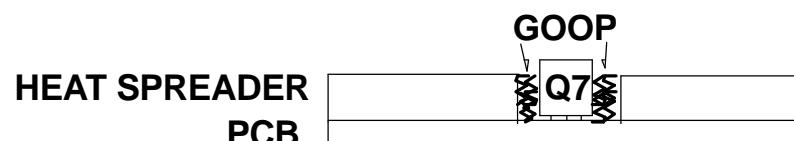
1 - USE THE TWO #8829 SCREWS TO LINE UP THE HEATSPREADER ON THE PCB.

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.

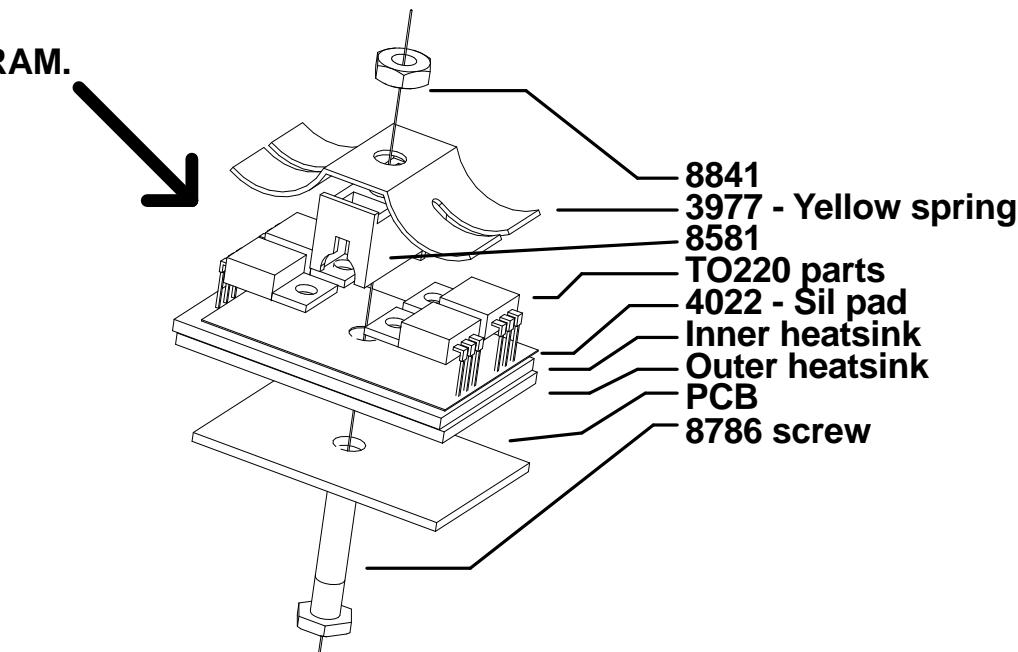
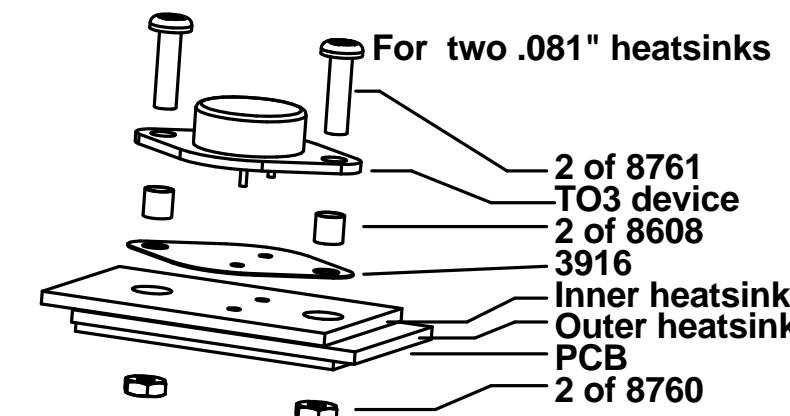
7 - CONNECT BREAK-AWAY BOARD TO UNDERSIDE OF MAIN BOARD USING THREE #3668 CONNECTORS AFTER DROPPING BOARD INTO CHASSIS

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



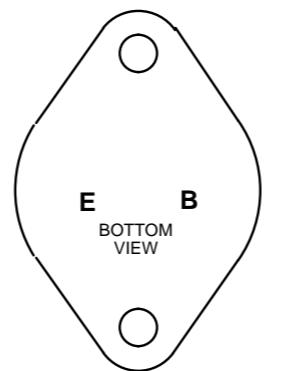
M1234 Database History			
MODEL(S):- U15P			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	13SEPT2005	P2	R3 2006 --> 4688
2		N	
3	14SEPT2005	P2	Added CONHOLE to chassis for GND
4	31OCT2005	P2	Modified XFMR colours
5	8NOV2005	P2	Q14,15,24,25 from 3205 (#6954) to 2910 (#6966)
6	9NOV2005	P2	Removed X33, changed X6,7
7	19DEC2005	P3	Increased size of relay board
8			W55
9	10JAN2006	P3	Added mounting holes & deleted W29, changed colour W55
10	26JAN2006	P3	Changed SPKR wire colours
11	14FEB2006	1V0	Added D76,D77 and changed D39,65,72,73 to 1N4007
12	D	V	Re-routed PS GND, added ferrites to relay brd power, del
13	9MAR2006	1V0	LG 5,8 Removed W12, input limiter circuitry, changed C38,39,31,5,8 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	
12	D	V	
13	D	V	
1	D	V	
2	D	V	
3	D	V	
4	D	V	
5	D	V	
6	D	V	
7	D	V	
8	D	V	
9	D	V	
10	D	V	
11	D	V	
12	D	V	
13	D	V	

M1234 Pending List			
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

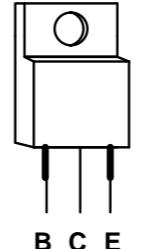
M1234 Drill History

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

PIN CONFIGURATION



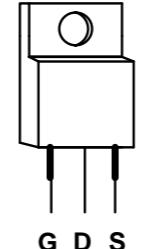
MJE11025
MJ21196
MJ21195



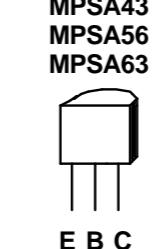
MJE15032
MJE15033
TIP50
MJE5730
MJE15031
MJ21196
BDT41C
BDT42C
BDX54C
BDX53C
2N6045 BD649
TIP102
TIP107

IRF830
MTP12P10
MTP10N15L
IRL2910
IRF5210
MTP2P50E
MTP8P20
IRF720
MTP23P06
IRF822
IRF4905

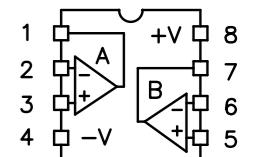
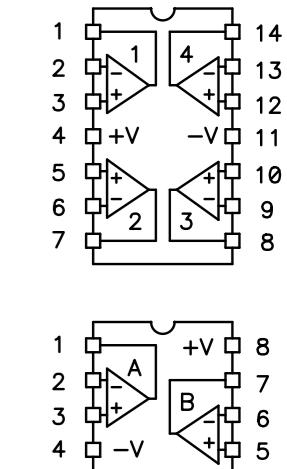
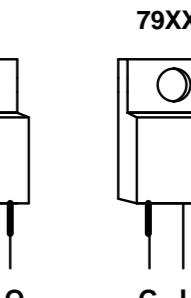
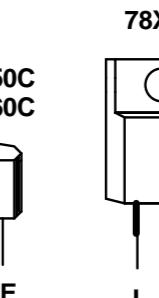
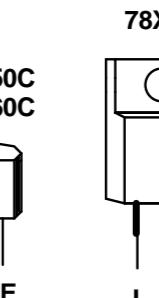
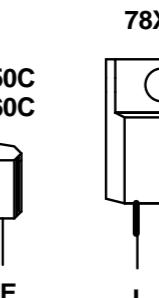
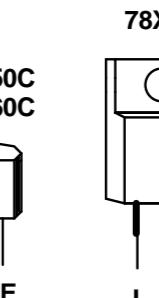
BD139
BD237
BD238
MJE340
MJE350
MJE271
MJE270
BD140

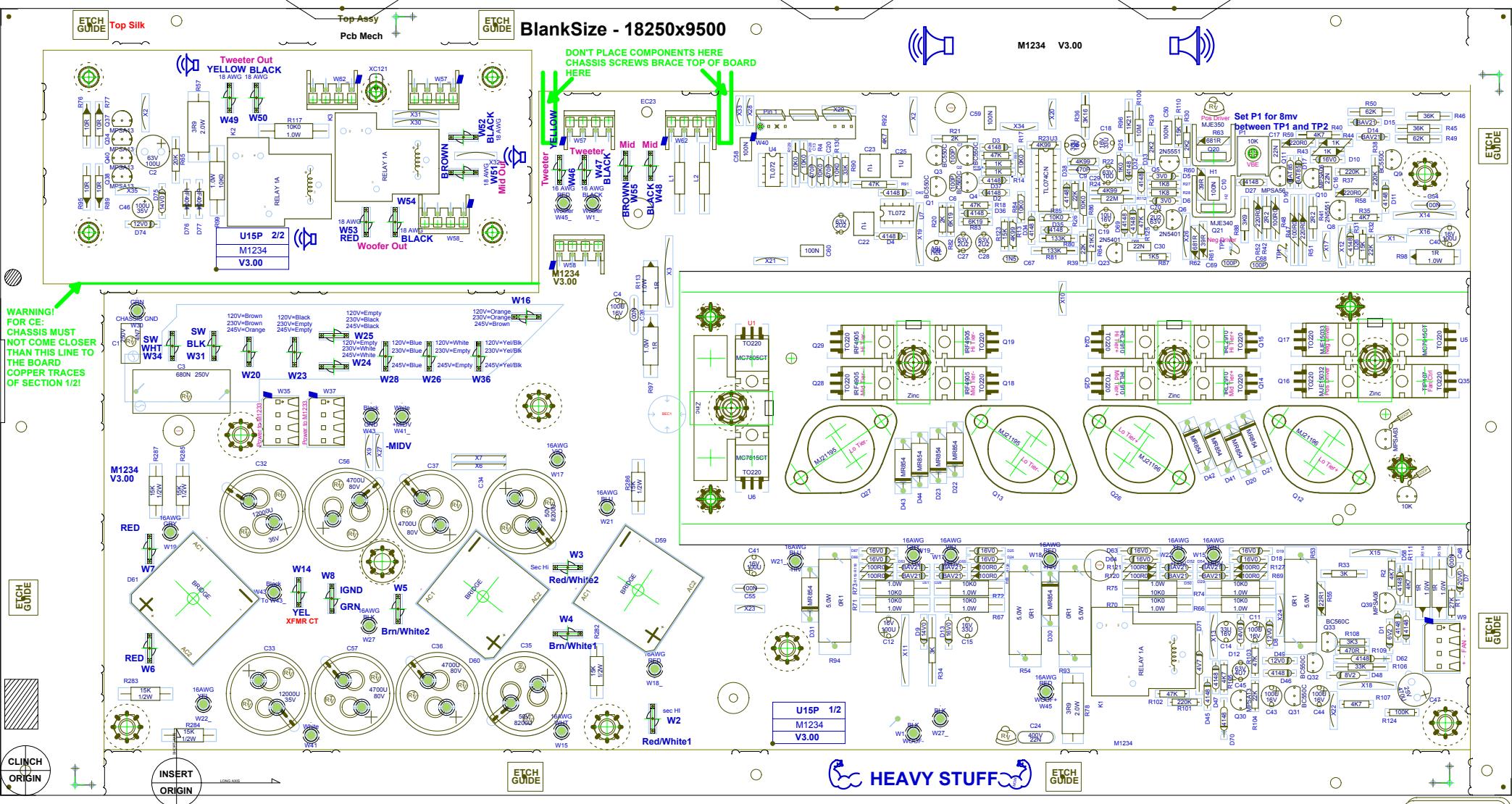


2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63



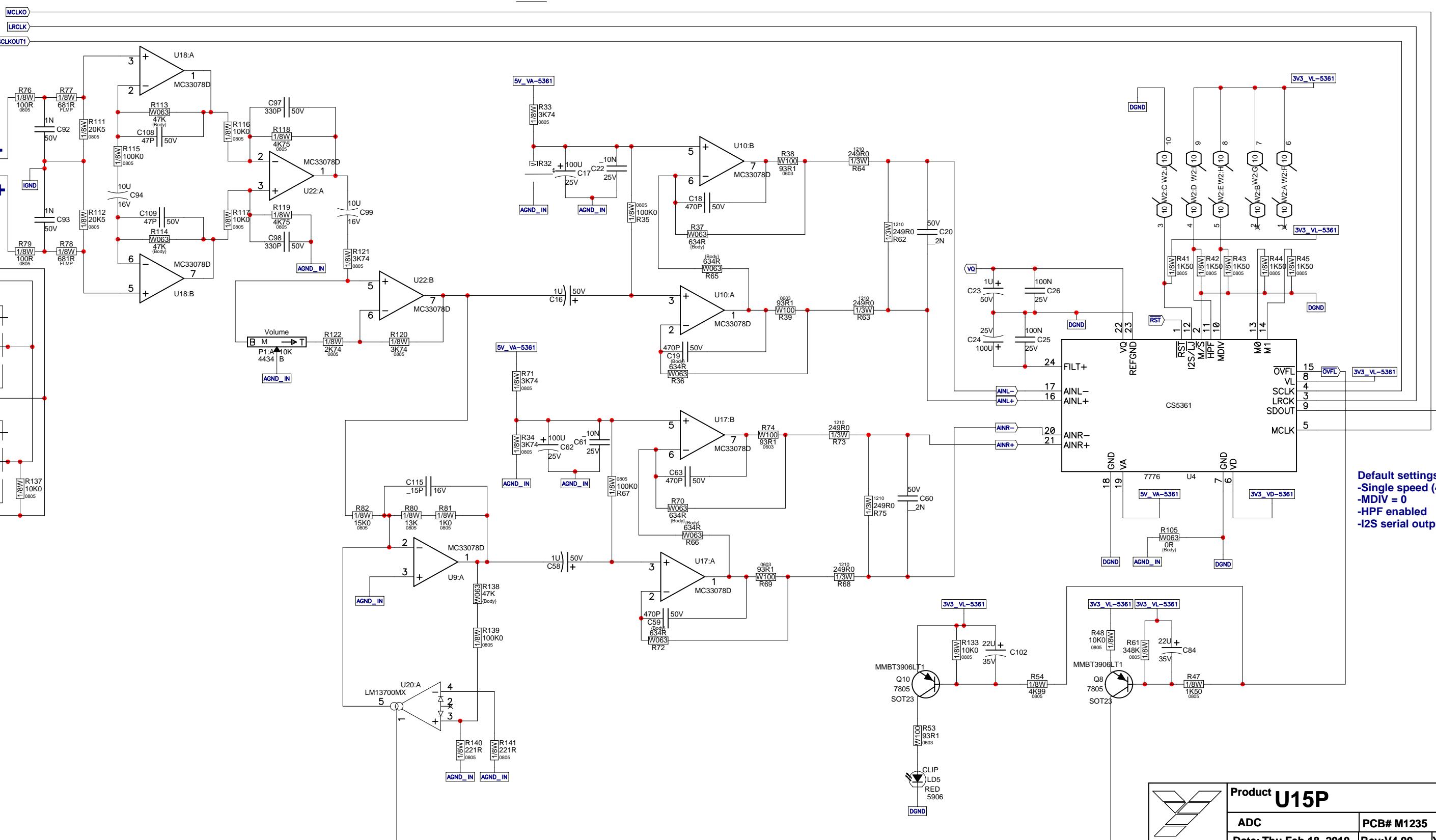
BC550C
BC560C





FROM TAS3103

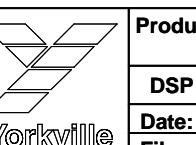
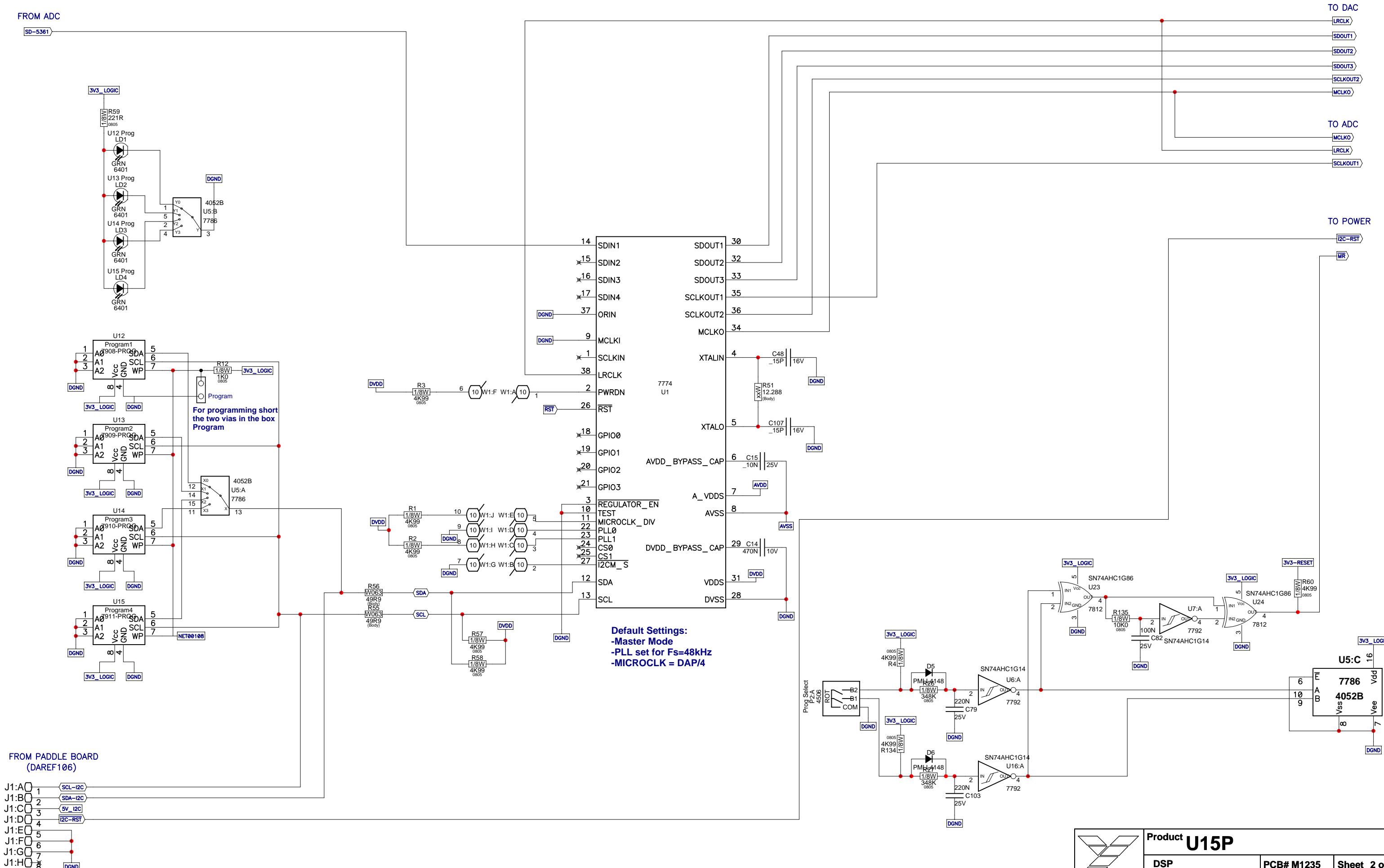
TO TAS3103

Product **U15P**

ADC PCB# M1235 Sheet 1 of 4

Date: Thu Feb 18, 2010 Rev: V4.00 YsType:(Company)

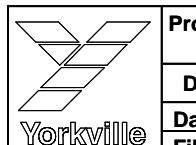
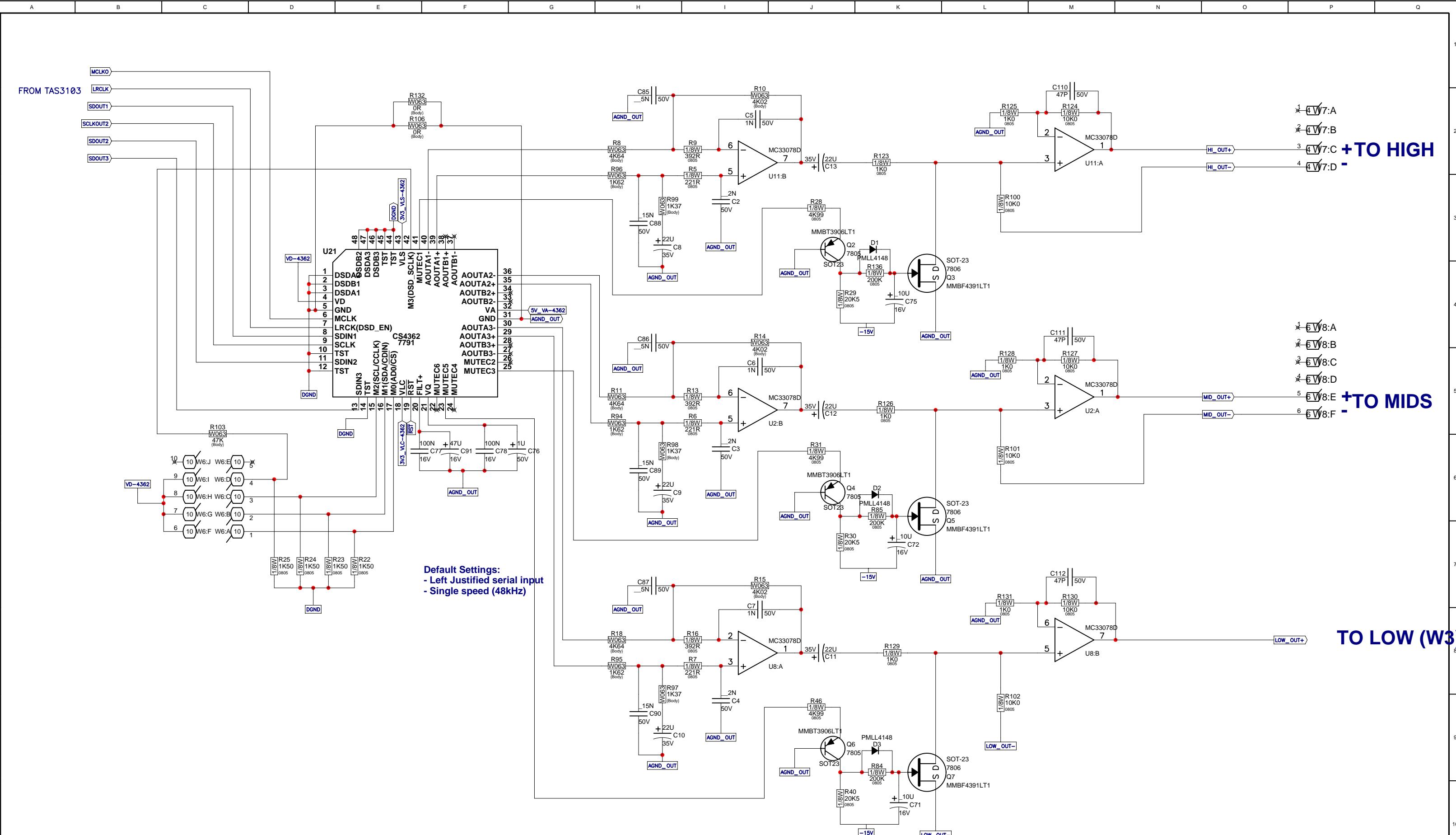
Filename: m1235v400sch.sch2002



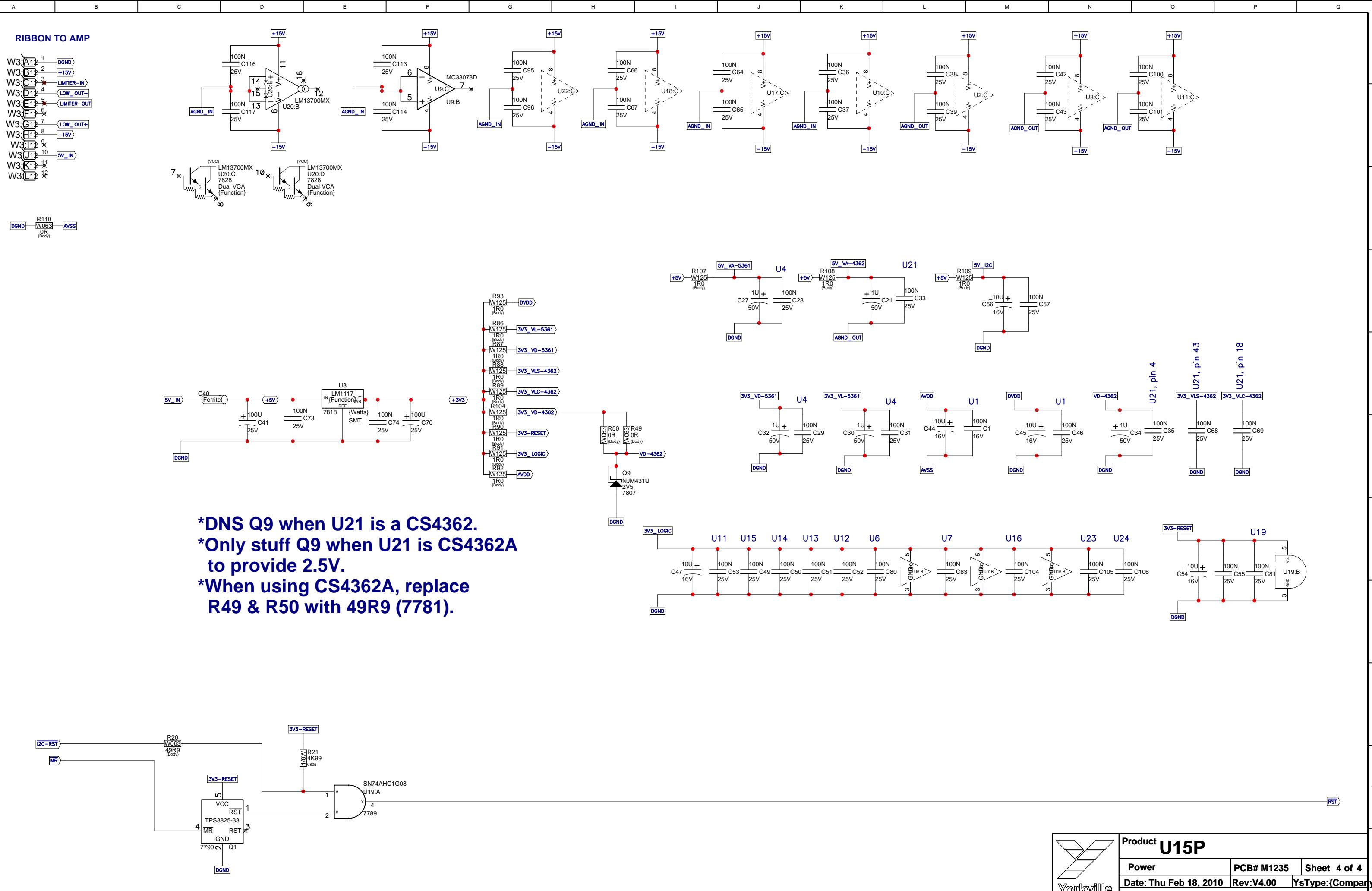
uct U15P

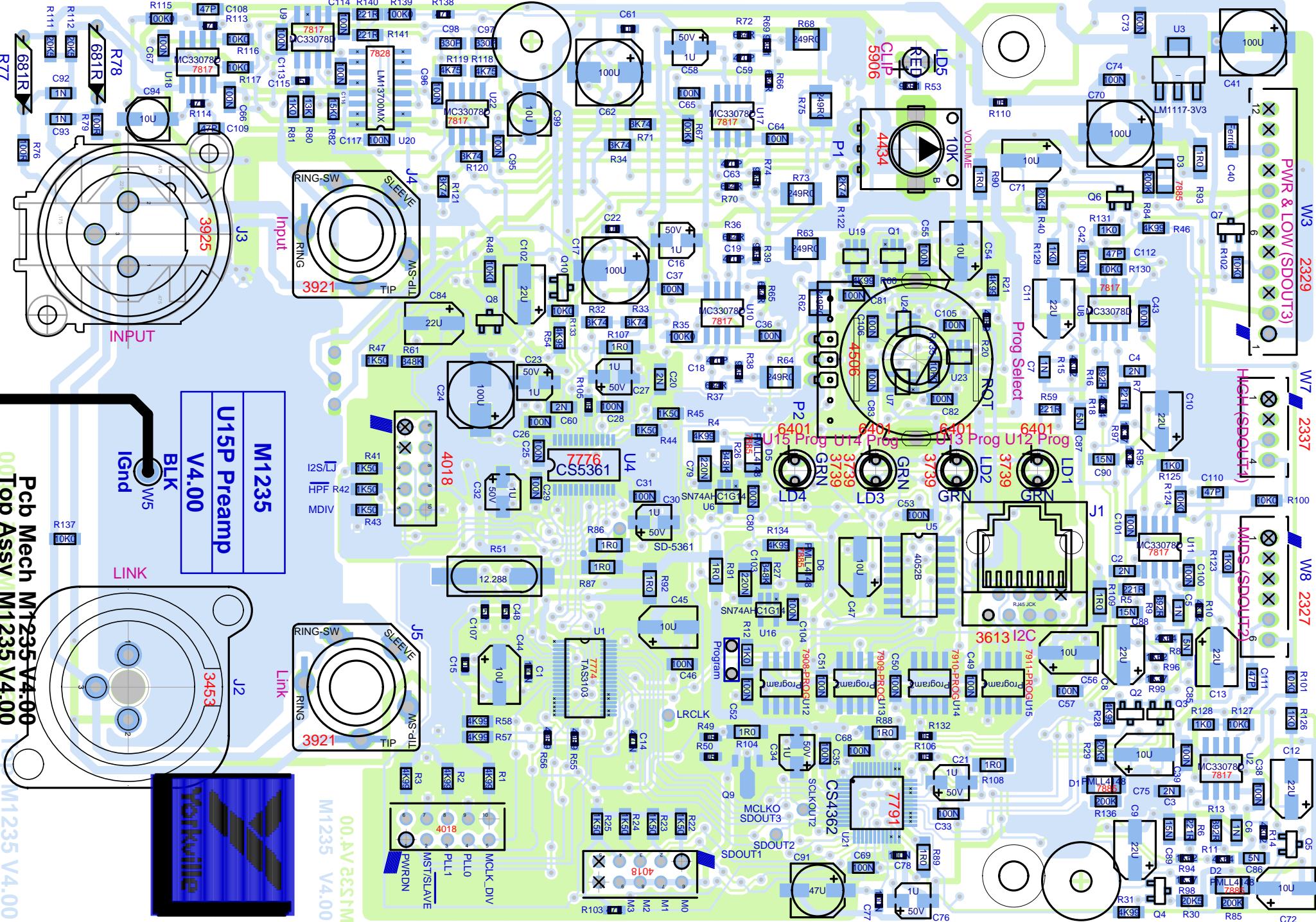
Thu Feb 18, 2010 Rev: V4.00 YsType:{Company}

me: m1235v400sch.sch2002



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





 SEE LAYOUT DOCUMENTATION 



SEE LAYOUT DIAGRAM

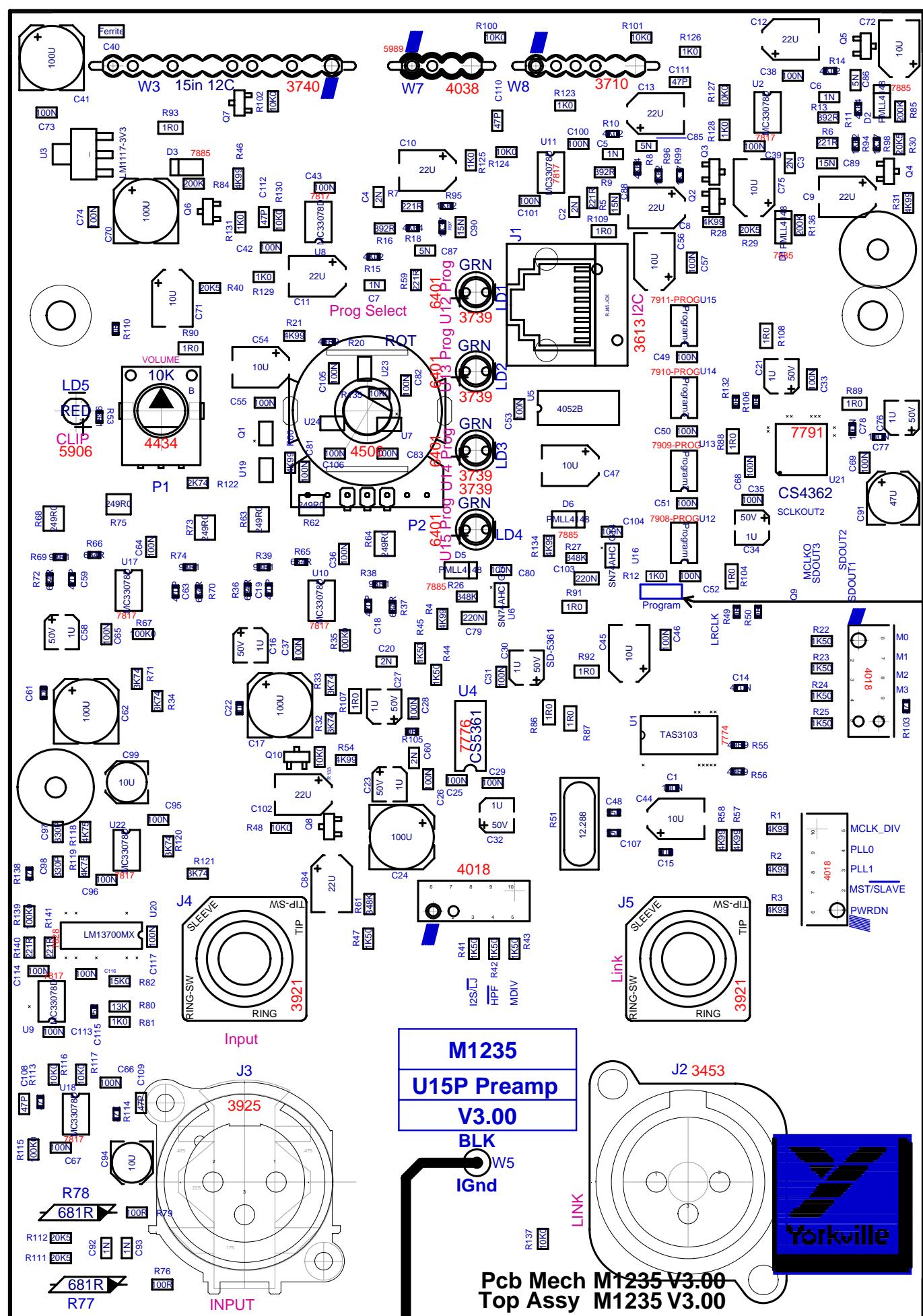


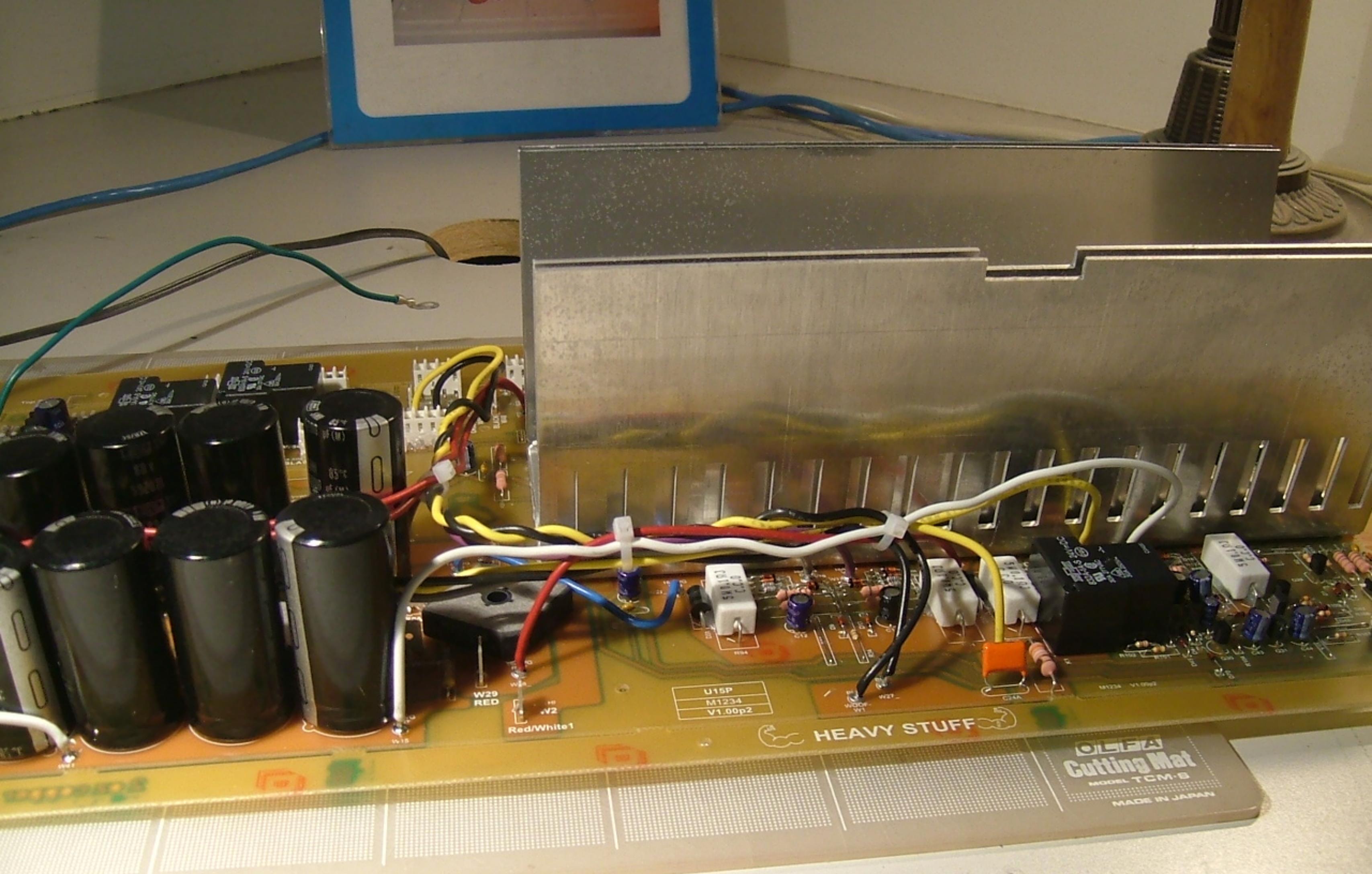
M1235 Database History			
MODEL(S):- U15P			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	2FEB2006	P3	Updated ribbons, move parts under encoder legs, fixed output stages, fixed input limiter
2	D	V	
3	D	V	Updated diode packages to SOD80, change R133 100k->10k
4	8MAR2006	P3	R84,85,136 100k->200k
5	D	V	PC#7191, #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

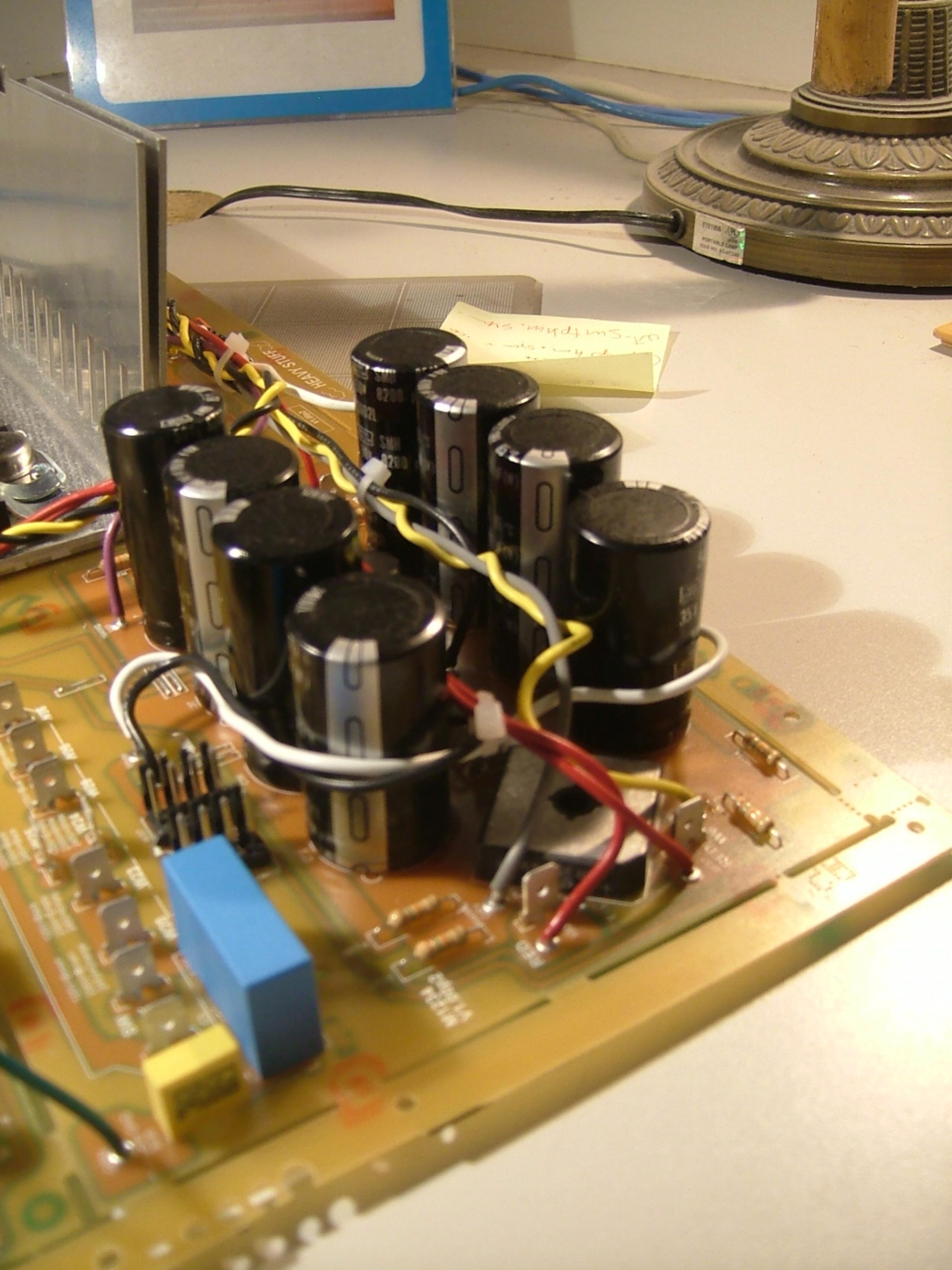
M1235 PRODUCTION NOTES

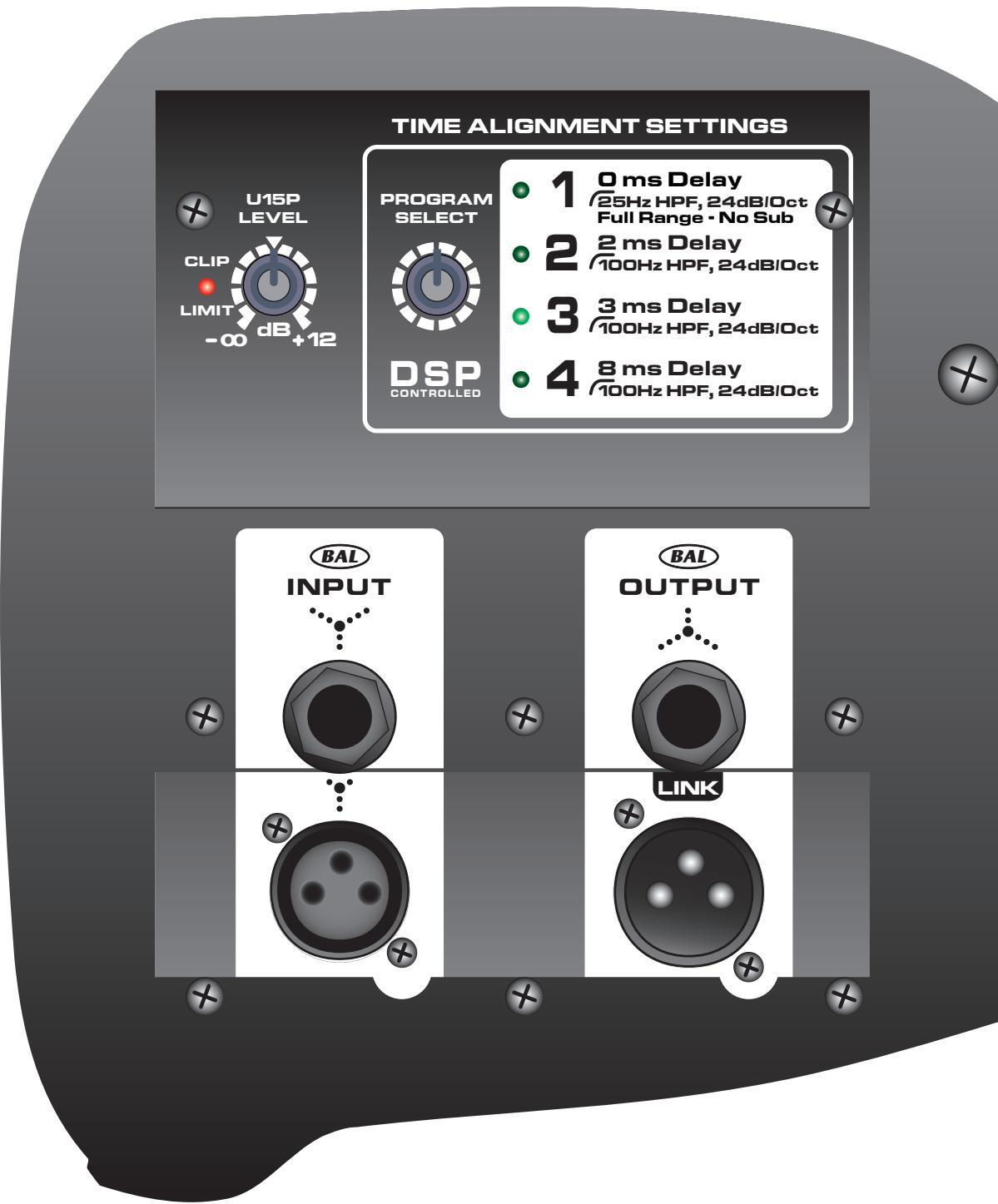
1. Do not stuff (DNS) Q9 when U21 is a CS4362. *Only stuff Q9 when U21 is CS4362A to provide 2.5V.
2. DNS W1, W2, W6, and J1.
3. When using CS4362A, replace R49 & R50 with 49R9 (7781).
4. For programming short the two vias in the Program box
5. DO NOT STUFF J4 OR J5 FOR S4P. ONLY STUFF J4 AND J5 FOR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











YS#8393 Grey Knob (qty: 2)