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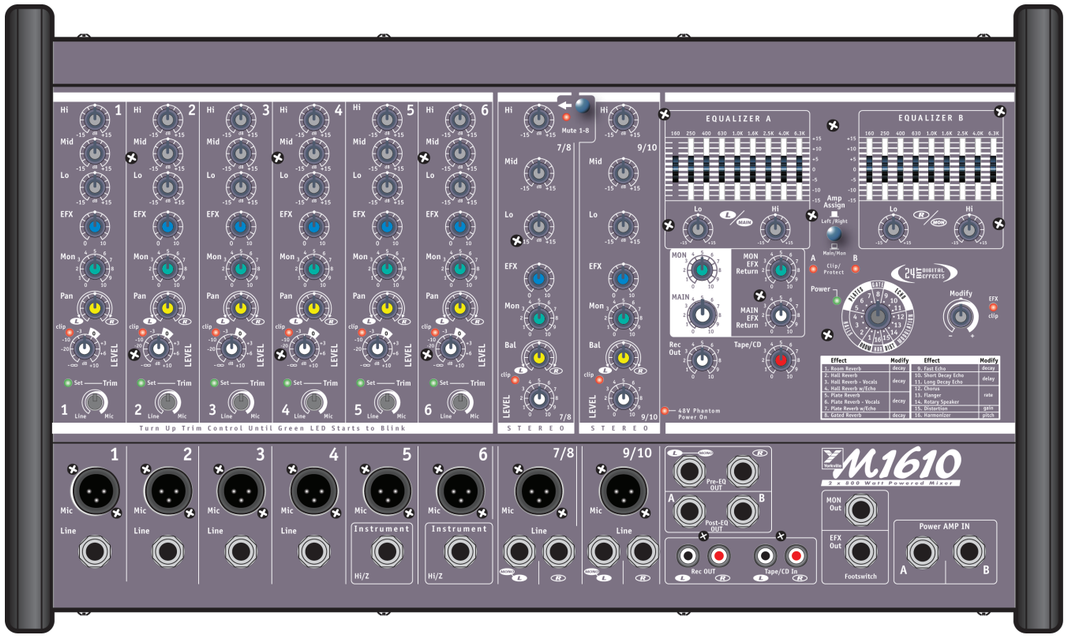
Quality and Innovation Since 1963
Printed in Canada

SERVICE MANUAL

Series 1 and 2

M810 / M1610

MODEL TYPE: YS1032 (M1610)
MODEL TYPE: YS1033 (M810)



IMPORTANT SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

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.

Read Instructions
The Owner's Manualshould be read and understood before operation of your unit. Please, save these instructions for future reference.

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

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.

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.

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.

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

Power Cord
The AC supply cord should be routed so that it is unlikely that it will be damaged. If the AC supply cord is damaged DO NOT OPERATE THE UNIT.

Service
The unit should be serviced only by qualified service personnel.

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'ENTRETIENT

Veuillez Lire le Manuel
Il contient des informations qui devraient êtres comprises avant l'opération de votre appareil. Conservez S.V.P. ces instructions pour consultations ultérieures.

Emballage
Conservez la boite au cas ou l'appareil devait être retourner pour réparation.

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 êtres prises afin d'eviter que le système de mise à la terre de l'appareil ne soit désengagé.

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.

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

L'appeil 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.

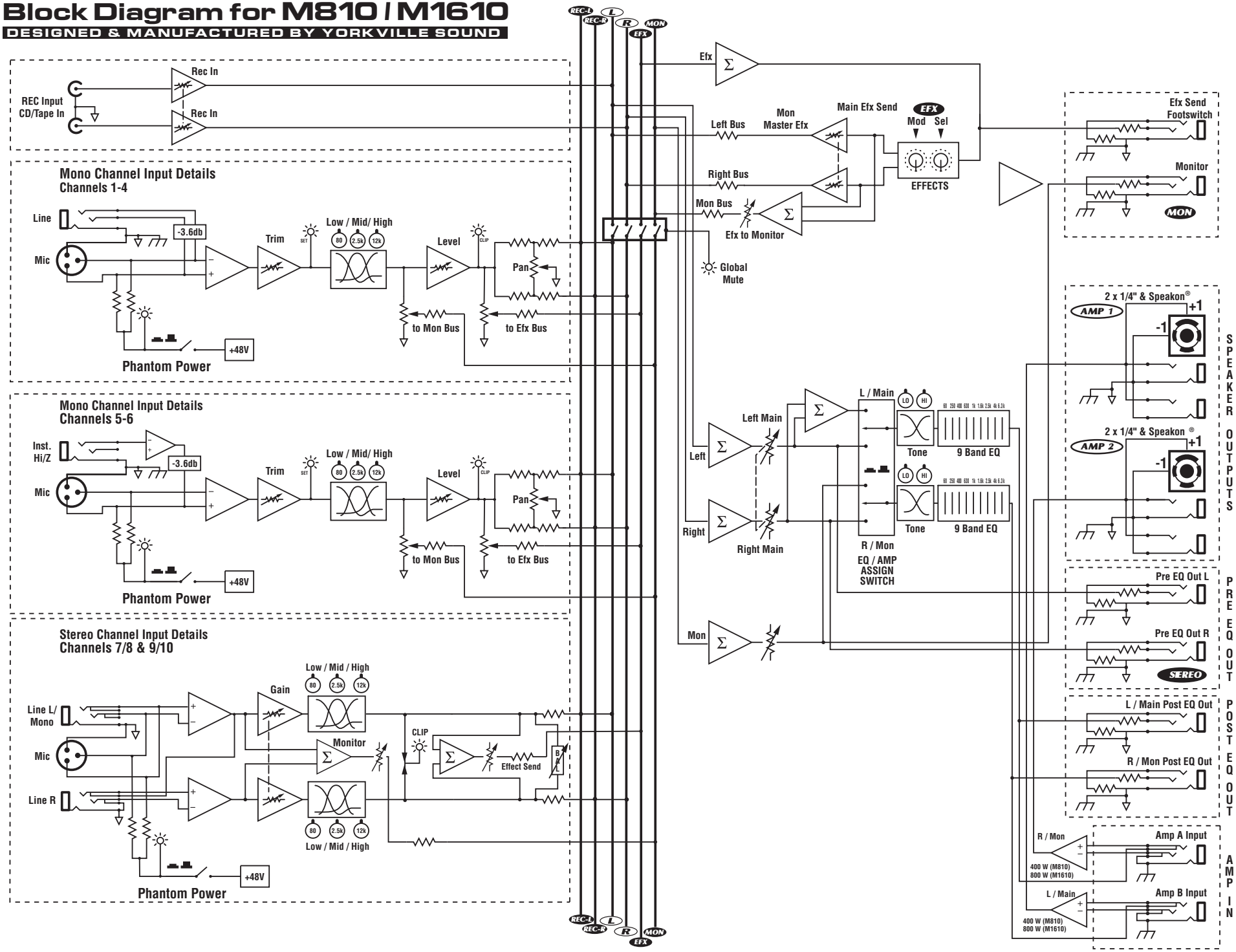
Les dispositifs marqués d'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connection extérieure doivent être effectivés par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'Alimentation
Évitez d'endommager le cordon d'alimentation. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé.

Service
Consultez un technicien qualifié pour l'entretien de votre appareil.

Block Diagram for M810 / M1610

DESIGNED & MANUFACTURED BY YORKVILLE SOUND



m810 Parts List 7/8/2004

YS #	Description	Qty.
3507	"28 PIN X .6"" I.C DEEP SOCKET"	1
3550	44PIN I.C PLCC SOCKET	1
3557	84 PIN I.C PLCC SOCKET	1
3571	"28 PIN X .6"" I.C. SOCKET"	1
6994	44PIN I.C PLCC CRYSTAL CODEC	1
6940	16MHZ CRYSTAL VERT 2-PIN .25"CASE	1
5906	RED 3MM LED 1V9 20MA .4SPCER T&R	13
5908	GRN 3MM LED 1V9 20MA .4SPCER T&R	7
6419	BRIDGE 35A 400V WIRE LEAD GI3504	2
6425	BAV21 200V 0A25 DIODE T&R	12
6825	1N4148 75V 0A45 DIODE T&R	94
6438	1N4007 400V 1A0 DIODE T&R	1
6934	MR854 400V 3A0 DIODE FASREC	12
6439	1N5225B 3V0 0W5 ZENER 5% T&R	4
6440	1N750ARL 4V7 0W5 ZENER 5% T&R	2
6436	1N753ARL 6V2 0W5 ZENER 5% T&R	1
6437	1N5237B 8V2 0W5 ZENER 5% T&R	3
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	2
6450	1N5242B 12V0 0W5 ZENER 5% T&R	4
6486	1N5244B 14V0 0W5 ZENER 5% T&R	2
6824	1N5246B 16V0 0W5 ZENER 5% T&R	10
6465	1N5250B 20V0 0W5 ZENER 5% T&R	1
6475	1N5262B 51V0 0W5 ZENER 5% T&R	1
6738	MC7805CT TO220 P 5V0 REG V1	1
6871	MC7915CT TO220 N 15V0 REG V2	1
6872	MC7815CT TO220 P 15V0 REG V1	1
5101	BC550C TO92 NPN TRAN T&R TB	17
5102	BC560C TO92 PNP TRANSISTOR T&R TB	38
5103	MPSA06 TO92 NPN TRANSISTOR T&R TA	4
5104	MPSA56 TO92 PNP TRAN T&R TA	2
5107	2N5551 TO92 NPN TRNSISTR DARL T&RTA	4
5108	2N5401 T092 PNP TRNSISTR DARL T&RTA	4
5105	MPSA13 TO92 NPN TRNSISTR DARL T&RTA	5
5106	MPSA63 TO92 PNP TRNSISTR DARL T&RTA	2
6774	BD139 TO126 NPN TRAN TG	1
6873	MJE340 TO126 NPN TRANSISTOR TG	2
6874	MJE350 TO126 PNP TRANSISTOR TG	2
6779	MJH11018(22)TO218 NPN TRAN DARL TI	4
6802	MJH11017(23)TO218 PNP TRAN DARL TI	4
6916	TIP107 TO220 PNP TRAN DARL TE	1
6953	IRF4905 TO220 PCH MFET	4
6954	IRF3205 NCH MFET TN	4
6804	MC33079P IC QUAD OP AMP	4
6882	TL072CP IC FET DUAL OP AMP	15
6889	TL074CN IC QUAD O/A T.I ONLY	11
6745	LM13600N IC XCONDUCTANCE AMP	4
6943	74HC374N IC OCTAL DTYPE LATCH	1
6962	74HC30 IC 8-INPUT NAND GATE	1
6992	1365-102 IC DIGITAL REVERB ASIC	1
6993	1250-101 IC SRAM 32KX8	1
7003	27C512 PROM IC YS M1610 16X16 PRG	1
981/2-UP	EPROM 27C512 - BLANK	1
6467	10K 10% THERMISTOR NTC TO-92	2
5405	_27P 200V 5%CAP T&R RAD CER.2"NPO	2
5408	_47P 100V 10%CAP T&R BEAD NPO	33
5199	100P 100V 2%CAP T&R RAD CER.2"NPO	8
5412	220P 100V 10%CAP T&R BEAD NPO	14
5416	470P 50V 10%CAP T&R BEAD NPO	6
5422	__1N 50V 10%CAP T&R BEAD NPO	20
5273	__1N5 200V 5%CAP T&R RAD CER.2"NPO	16
5208	__2N2 400V 5%CAP T&R RAD .2"FLM	5
5274	__2N2 200V 5%CAP T&R RAD CER.2"NPO	6
5275	__3N3 100V 5%CAP T&R RAD .2"FLM	2
5276	__3N3 200V 5%CAP T&R RAD CER.2"NPO	4
5209	__4N7 250V 5%CAP T&R RAD .2"FLM	4
6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC	1
5204	_10N 100V 10%CAP T&R RAD .2"FLM	5
5205	_15N 100V 10%CAP T&R RAD .2"FLM	4
5207	_18N 100V 5%CAP T&R RAD .2"FLM	6
5210	_22N 100V 10%CAP T&R RAD .2"FLM	27
5840	_22N 400V 10%CAP BLK RAD POLY FLM	2
6435	_22N 275V 20%CAP BLK 'X2' 15MM AC	1
5222	_33N 100V 10%CAP T&R RAD .2"FLM	10
5224	_47N 100V 10%CAP T&R RAD .2"FLM	6
5226	_68N 100V 5%CAP T&R RAD .2"FLM	2
5212	100N 63V 5%CAP T&R RAD .2"FLM	35
5228	100N 100V 5%CAP T&R RAD .2"FLM	1
5314	100N 50V 10%CAP T&R BEAD X7R	12
5229	150N 63V 10%CAP T&R RAD .2"FLM	2
5231	220N 63V 10%CAP T&R RAD .2"FLM	2
5318	220N 50V 10%CAP T&R BEAD X7R	1
5233	330N 63V 5%CAP T&R RAD .2"FLM	8
5234	470N 63V 10%CAP T&R RAD .2"FLM	2
5240	680N 63V 10%CAP T&R RAD .2"FLM	1
5266	680N 250V 20%CAP BLK 'X2' 30MM AC	
5257	__2U2 63V 20%CAP T&R RAD .2"EL	12
5258	__4U7 63V 20%CAP T&R 8X7MM .2"EL	20
5282	_10U 16V 20%CAP T&R 5X7MM .2"NP	35
5945	_10U 63V 20%CAP T&R RAD .2"EL	3
5260	_22U 50V 20%CAP T&R RAD .2"EL	1
5631	_22U 50V 20%CAP T&R 6X7MM .2"EL	14
5961	_33U 16V 20%CAP T&R RAD .2"NP	20
5879	100U 16V 20%CAP T&R 8X7MM .2"EL	16
5618	470U 25V 20%CAP BLK 10X15MM EL	1
5896	4700U 80V 20%CAP BLK 25X50MM ELS	6
5903	12000U 35V 20%CAP RAD 25X45MM ELS	2
4581	ROT GRY 18MM 4BIT ENCODER P23	2
4431	_10K 5C R/A 12MM STEREO P34	2
4432	_10K B LIN 9MM P32	6
4434	_10K B LIN 9MM DETENT P32	20
4438	_10K B LIN 12MM STEREO DETENTP34	4
4426	_20K 4B LIN 9MM P32	1
4447	_20K 15A AUD 12MM STEREO P34	1
4433	_50K B LIN 9MM P32	15
4435	_50K B LIN 9MM DETENT P32	10
4437	_50K B LIN 12MM STEREO P34	2
4439	_50K B LIN 12MM STEREO DETENTP34	2
4441	_50K 4B LIN 12MM STEREO P34	2
4443	100K 5C R/A 9MM P32	8
3998	_20K 1B LIN 20MM DETENT S04	18
4520	_10K TRIM POT	2
2408	8.0 AMP CIRCUIT BREAKER	1
3820	___4UH COIL 14AWG ZOBEL HORIZONTAL	2
3489	CLIP 250X032 18-22AWG DISCO/INSL	1
3490	CLIP 250X032 14-16AWG DISCO/INSL	11
3601	RING TERMINAL 16AWG WIRE & #8 SCREW	1
3682	250 MALE PCB TAB REEL	11
3528	1/4" JCK PCB MT HORZ GOLD TR_	2
3921	1/4" JCK PCB MT VERT STER RT SWT	16
3924	1/4" JCK PCB MT VERT 2XTIP HICURNT	4
3466	RCA DUAL PCB MT VERT GOLD 24MM	2
3628	SPKON 4C PCB MT VERT 250TAB GRY #4	2
4010	XLR FEML PCB MT VERT 24MM AA-SERIES	8
3451	EYELET SMALL 0.089 OD PLATED	47
3856	FAN 80MM X 80MM 39CFM 12VDC 200MA	2
3894	AAVID 5972-B H/S W/TAB B.O.	5
3501	B52200F006 COMP WASH #4 SMALL	3
3719	DUAL XSISTOR TO218 SPRING YEL PLTD	4
3977	QUAD XSISTOR TO220SPRING YELLOWZINC	3
8889	RUBBER GROMMET #2183-034-BLK	1
3810	4" NYLON CABLE TIE	8
8397	GREY STYLE 2 KNOB	2
8637	ROUND PUSH BUTTON 1/4" BLK 24MM	1
9915	RED SOFT GRAY RIB KNOB 0-DEG	8
9916	GRY SOFT GRAY RIB KNOB 0-DEG	28
9917	GRN SOFT GRAY RIB KNOB 0-DEG	9
9918	BLU SOFT GRAY RIB KNOB 0-DEG	10
9919	YEL SOFT GRAY RIB KNOB 0-DEG	8
9920	WHT SOFT GRAY RIB KNOB 0-DEG	9
3426	8' 3/16 SJT AC LINE CORD REMOVB-CSA	1
3638	12 CIR CABLE HOLDER .098	1
8701	4-40 KEPS NUT ZINC	3
8800	6-32 KEPS NUT ZINC	15
8841	10-32 KEPS NUT ZINC	7
8797	5/16-18 KEPS NUT JS500	1
3796	ELASTOMER PAD TSIL 1.0X0.8	8
3580	12 CIR WAFER W/LCK VT 0.1"	1
3818	EMI SUPPRESSION FERRITE BEAD T&R	2
4597	22AWG STRAN TC WIR JMP	15
4599	22AWG SOLID SC WIR T&R JMP	237
4749	5.0W 0R15 5% BLK RES	8
2006	1.0W 1R 5%FLAME PROOF T&R RES	4
4911	1/4W 2R2 5% T&R RES	4
4748	2.0W 3R9 5% T&R	2
2008	1.0W 10R 5%FLAME PROOF T&R RES	4
4605	1/8W 10R 5% T&R RES	4
2013	1/8W 22R1 1%FLAME PROOF T&R RES	4
4709	5.0W 22R 5% BLK RES	1
2016	1/8W 39R 2%FLAME PROOF T&R RES	4
6134	1/4W 47R 5%MINI T&R RES	6
2019	1/8W 100R0 1%FLAME PROOF T&R RES	12
4602	1/8W 100R 5% T&R RES	28
4921	1/4W 100R 5% .2"U T&R RES	18
4984	1/4W 150R 5%MINI T&R RES	3
2023	1/8W 220R0 1%FLAME PROOF T&R RES	8
4977	1/4W 220R 5%MINI T&R RES	12
2024	1/8W 249R 2%FLAME PROOF T&R RES	4
5010	1/4W 330RX9 5% 10PIN SIP RES	1
2028	1/8W 475R 1%FLAME PROOF T&R RES	2
4980	1/4W 470R 5%MINI T&R RES	30
4799	1/4W 562R 1% T&R RES	4
4922	1/4W 620R 5% .2"U T&R RES	8
5019	1/4W 620R 5%MINI T&R RES	14
2030	1/8W 681R 1%FLAME PROOF T&R RES	16
4923	1/4W 680R 5% .2"U T&R RES	4
4924	1/4W 750R 5% .2"U T&R RES	6
2031	1/8W 820R 5%FLAME PROOF T&R RES	4
4925	1/4W 820R 5% .2"U T&R RES	2
2033	1/8W 1K 2%FLAME PROOF T&R RES	4
4981	1/4W 1K 5%MINI T&R RES	17
6110	1/4W 1K0 1%MINI MF T&R RES	2
4585	1/4W 1K2 5%MINI T&R RES	25
4988	1/4W 1K5 5%MINI T&R RES	25
6113	1/4W 2K 5%MINI T&R RES	4
6104	1/4W 2K2 5%MINI T&R RES	6
6114	1/4W 2K49 1%MINI MF T&R RES	3
6124	1/4W 3K 5%MINI T&R RES	4
6136	1/4W 3K3 5%MINI T&R RES	4
5028	1/4W 3K74 1% T&R RES	4
4850	1/4W 3K9 5% T&R RES	2
4774	1/4W 4K12 1% T&R RES	4
4943	1/4W 4K7 5% .2"U T&R RES	2
4982	1/4W 4K7 5%MINI T&R RES	49
6128	1/4W 4K99 1%MINI MF T&R RES	42
6121	1/4W 6K98 1%MINI MF T&R RES	4
4926	1/4W 7K5 5% .2"U T&R RES	18
4990	1/4W 8K2 5%MINI T&R RES	2
4983	1/4W 10K 5%MINI T&R RES	109
5031	1.0W 10K0 5% T&R	8
6116	1/4W 10K0 1%MINI MF T&R RES	80
4630	1/2W 15K 5% T&R RES	4
4979	1/4W 15K 5%MINI T&R RES	28
4954	1/4W 18K 5% .2"U T&R RES	12
6125	1/4W 18K 5%MINI T&R RES	2
6123	1/4W 20K0 1%MINI MF T&R RES	5
4777	1/4W 21K5 1% T&R RES	2
6118	1/4W 22K 5%MINI T&R RES	19
6129	1/4W 27K 5%MINI T&R RES	7
6122	1/4W 33K 5%MINI T&R RES	15
4868	1/4W 36K 5% T&R RES	4
4927	1/4W 47K 5% .2"U T&R RES	4
6119	1/4W 47K 5%MINI T&R RES	26
4928	1/4W 56K 5% .2"U T&R RES	14
4848	1/4W 62K 5% T&R RES	4
6139	1/4W 62K 5%MINI T&R RES	6
4586	1/4W 82K 5%MINI T&R RES	4
4929	1/4W 82K 5% .2"U T&R RES	14
4942	1/4W 100K 5% .2"U T&R RES	1
6120	1/4W 100K 5%MINI T&R RES	1
4991	1/4W 133K 1%MINI T&R RES	12
4796	1/4W 180K 5%MINI T&R RES	4
6126	1/4W 220K 5%MINI T&R RES	12
6127	1/4W 470K 5%MINI T&R RES	5
4948	1/4W 1M 5% .2"U T&R RES	2
4951	1/4W 4M7 5% .2"U T&R RES	7
6132	1/4W 8M2 5%MINI T&R RES	6
4809	1/4W 10M 5% T&R RES	2
4751	1/4W 22M 5% T&R RES	10
3519	28" 12C-26AWG RIB 1 W/LCK HDR 098	1
3736	RELAY 1C 10AMP DC24 017MA PC-S	2
8865	4-40 X 5/16 PAN PH MS JS500	33
8729	#4 X 3/8 FLAT QUAD TYPE A JS500 BLK	4
8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	18
8831	6-32 X 1/4 PAN PH TAPTITE ZN	1
8832	6-32 X 1/4 PAN PH TAPTITE JS500	28
8801	6-32 X 3/8 PAN PH TAPTITE JS500	1
8823	6-32 X 1 PAN PH TAPTITE JS500	3
8809	10-32 X 1/4 PAN PH TAPTITE JS500	8
8833	10-32 X 7/8 HEX CAP GRD 5 JS500	7
8893	10-32 X 1 FLAT PHILIPS TT JS500 BLK	10
8632	ROUND PUSH BUTTON 1/4" GREY	2
8733	5/16-18X2-1/2 GRD 5 HEX BOLT JS500	1
3663	SNAP IEC PWR SOC W/.250TAB FOR .060	1
3859	1/2 PLASTIC HEX SPACER #4	15
8657	6-32 X 3/8" HEX SPACER ALUMINUM	7
8682	#4 TEFLON WASHER .125ID .281OD .031	6
8482	3/8 1D FLAT WASHER	16
8818	3/4 OD X 3/8 ID X .080 THICK WASHER	2
3511	#6 FLAT WASHER NYLON	15
8485	#6 SPLIT WASHER ZINC	1
3524	NYLON SH/WASHER ID385 OD750 T060	4
3577	FIBER WASHER .625OD .380ID .03	4
3440	4PDT MINI VERT ALT SWITCH	1
3522	DPDT MINI PC VERT SNP ALT	2
3587	DPDT ROKR SW QUIK 250"AC/PWR ON-OFF	1
CH1259	M808 POWER TRFMR T'RD	1

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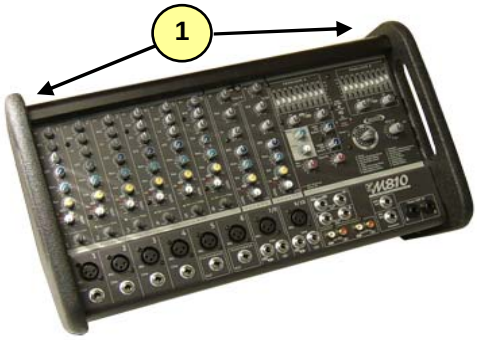
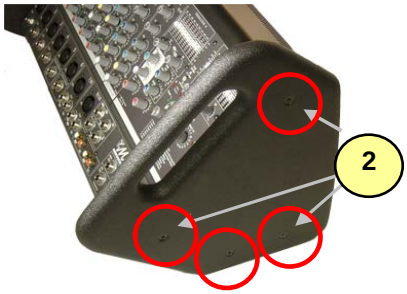
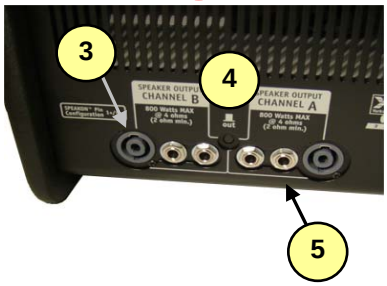
6425	BAV21 200V 0A25 DIODE T&R	20
6825	1N4148 75V 0A45 DIODE T&R	90
6438	1N4007 400V 1A0 DIODE T&R	1
6934	MR854 400V 3A0 DIODE FASREC	20
6733	BAT85 30V 0A2 DIODE SCHTKYT&R	4
6439	1N5225B 3V0 0W5 ZENER 5% T&R	4
6440	1N750ARL 4V7 0W5 ZENER 5% T&R	2
6436	1N753ARL 6V2 0W5 ZENER 5% T&R	1
6437	1N5237B 8V2 0W5 ZENER 5% T&R	3
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	2
6450	1N5242B 12V0 0W5 ZENER 5% T&R	4
6486	1N5244B 14V0 0W5 ZENER 5% T&R	4
6824	1N5246B 16V0 0W5 ZENER 5% T&R	20
6465	1N5250B 20V0 0W5 ZENER 5% T&R	1
6475	1N5262B 51V0 0W5 ZENER 5% T&R	1
6738	MC7805CT TO220 P 5V0 REG V1	1
6871	MC7915CT TO220 N 15V0 REG V2	1
6872	MC7815CT TO220 P 15V0 REG V1	1
5101	BC550C TO92 NPN TRAN T&R TB	17
5102	BC560C TO92 PNP TRANSISTOR T&R TB	38
5103	MPSA06 TO92 NPN TRANSISTOR T&R TA	4
5104	MPSA56 TO92 PNP TRAN T&R TA	2
5107	2N5551 TO92 NPN TRNSISTR DARL T&RTA	4
5108	2N5401 T092 PNP TRNSISTR DARL T&RTA	4
5105	MPSA13 TO92 NPN TRNSISTR DARL T&RTA	5
5106	MPSA63 TO92 PNP TRNSISTR DARL T&RTA	2
6774	BD139 TO126 NPN TRAN TG	1
6808	MJE15032 TO220 NPN TRAN TE	2
6809	MJE15033 TO220 PNP TRAN TE	2
6873	MJE340 TO126 NPN TRANSISTOR TG	2
6874	MJE350 TO126 PNP TRANSISTOR TG	2
6916	TIP107 TO220 PNP TRAN DARL TE	1
6953	IRF4905 TO220 PCH MFET	8
6954	IRF3205 NCH MFET TN	8
6909	MJ21196 TO3 NPN TRANSISTOR TH	4
6910	MJ21195 TO3 PNP TRANSISTOR TH	4
6804	MC33079P IC QUAD OP AMP	4
6882	TL072CP IC FET DUAL OP AMP	15
6889	TL074CN IC QUAD O/A T.I ONLY	11
6745	LM13600N IC XCONDUCTANCE AMP	4
6943	74HC374N IC OCTAL DTYPE LATCH	1
6962	74HC30 IC 8-INPUT NAND GATE	1
6992	1365-102 IC DIGITAL REVERB ASIC	1
6993	1250-101 IC SRAM 32KX8	1
7003	27C512 PROM IC YS M1610 16X16 PRG	1
6981/2-U	EPROM 27C512 - BLANK	1
6467	10K 10% THERMISTOR NTC TO-92	2
5405	_27P 200V 5%CAP T&R RAD CER.2"NPO	2
5408	_47P 100V 10%CAP T&R BEAD NPO	33
5199	100P 100V 2%CAP T&R RAD CER.2"NPO	8
5412	220P 100V 10%CAP T&R BEAD NPO	14
5416	470P 50V 10%CAP T&R BEAD NPO	6
5422	__1N 50V 10%CAP T&R BEAD NPO	20
5273	__1N5 200V 5%CAP T&R RAD CER.2"NPO	16
5208	__2N2 400V 5%CAP T&R RAD .2"FLM	5
5274	__2N2 200V 5%CAP T&R RAD CER.2"NPO	6
5275	__3N3 100V 5%CAP T&R RAD .2"FLM	2
5276	__3N3 200V 5%CAP T&R RAD CER.2"NPO	4
5209	__4N7 250V 5%CAP T&R RAD .2"FLM	4
6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC	1
5204	_10N 100V 10%CAP T&R RAD .2"FLM	5
5205	_15N 100V 10%CAP T&R RAD .2"FLM	4
5207	_18N 100V 5%CAP T&R RAD .2"FLM	6
5210	_22N 100V 10%CAP T&R RAD .2"FLM	27
5840	_22N 400V 10%CAP BLK RAD POLY FLM	2
6435	_22N 275V 20%CAP BLK 'X2' 15MM AC	1
5222	_33N 100V 10%CAP T&R RAD .2"FLM	10
5224	_47N 100V 10%CAP T&R RAD .2"FLM	6
5226	_68N 100V 5%CAP T&R RAD .2"FLM	2
5212	100N 63V 5%CAP T&R RAD .2"FLM	35
5228	100N 100V 5%CAP T&R RAD .2"FLM	1
5314	100N 50V 10%CAP T&R BEAD X7R	12
5229	150N 63V 10%CAP T&R RAD .2"FLM	2
5231	220N 63V 10%CAP T&R RAD .2"FLM	2
5318	220N 50V 10%CAP T&R BEAD X7R	1
5233	330N 63V 5%CAP T&R RAD .2"FLM	8
5234	470N 63V 10%CAP T&R RAD .2"FLM	2
5240	680N 63V 10%CAP T&R RAD .2"FLM	1
5257	__2U2 63V 20%CAP T&R RAD .2"EL	12
5258	__4U7 63V 20%CAP T&R 8X7MM .2"EL	20
5282	_10U 16V 20%CAP T&R 5X7MM .2"NP	35
5945	_10U 63V 20%CAP T&R RAD .2"EL	3
5260	_22U 50V 20%CAP T&R RAD .2"EL	1
5631	_22U 50V 20%CAP T&R 6X7MM .2"EL	14
5961	_33U 16V 20%CAP T&R RAD .2"NP	24
5879	100U 16V 20%CAP T&R 8X7MM .2"EL	16
5618	470U 25V 20%CAP BLK 10X15MM EL	1
5896	4700U 80V 20%CAP BLK 25X50MM ELS	6
5898	8200U 50V 20% CAPACITOR 25X50MM ELS	4
5903	12000U 35V 20%CAP RAD 25X45MM ELS	2
4581	ROT GRY 18MM 4BIT ENCODER P23	2
4431	_10K 5C R/A 12MM STEREO P34	2
4432	_10K B LIN 9MM P32	6
4434	_10K B LIN 9MM DETENT P32	20
4438	_10K B LIN 12MM STEREO DETENTP34	4
4426	_20K 4B LIN 9MM P32	1
4447	_20K 15A AUD 12MM STEREO P34	1
4433	_50K B LIN 9MM P32	15
4435	_50K B LIN 9MM DETENT P32	10
4437	_50K B LIN 12MM STEREO P34	2
4439	_50K B LIN 12MM STEREO DETENTP34	2
4441	_50K 4B LIN 12MM STEREO P34	2
4443	100K 5C R/A 9MM P32	8
3998	_20K 1B LIN 20MM DETENT S04	18
4520	_10K TRIM POT	2
3606	12.0 AMP CIRCUIT BREAKER	1
3820	___4UH COIL 14AWG ZOBEL HORIZONTAL	2
3489	CLIP 250X032 18-22AWG DISCO/INSL	1
3490	CLIP 250X032 14-16AWG DISCO/INSL	11
3601	RING TERMINAL 16AWG WIRE & #8 SCREW	1
3682	250 MALE PCB TAB REEL	13
3528	1/4" JCK PCB MT HORZ GOLD TR_	2
3921	1/4" JCK PCB MT VERT STER RT SWT	16
3924	1/4" JCK PCB MT VERT 2XTIP HICURNT	4
3466	RCA DUAL PCB MT VERT GOLD 24MM	2
3628	SPKON 4C PCB MT VERT 250TAB GRY #4	2
4010	XLR FEML PCB MT VERT 24MM AA-SERIES	8
3451	EYELET SMALL 0.089 OD PLATED	63
3856	FAN 80MM X 80MM 39CFM 12VDC 200MA	2
3894	AAVID 5972-B H/S W/TAB B.O.	5
3501	B52200F006 COMP WASH #4 SMALL	3
3977	QUAD XSISTOR TO220SPRING YELLOWZINC	6
8889	RUBBER GROMMET #2183-034-BLK	1
3810	4" NYLON CABLE TIE	10
8397	GREY STYLE 2 KNOB	2
8637	ROUND PUSH BUTTON 1/4" BLK 24MM	1
9915	RED SOFT GRAY RIB KNOB 0-DEG	8
9916	GRY SOFT GRAY RIB KNOB 0-DEG	28
9917	GRN SOFT GRAY RIB KNOB 0-DEG	9
9918	BLU SOFT GRAY RIB KNOB 0-DEG	10
9919	YEL SOFT GRAY RIB KNOB 0-DEG	8
9920	WHT SOFT GRAY RIB KNOB 0-DEG	9
3426	8' 3/16 SJT AC LINE CORD REMOVB-CSA	1
3638	12 CIR CABLE HOLDER .098	1
8701	4-40 KEPS NUT ZINC	3
8760	6-32 KEPS NUT TIN PLATED	16
8800	6-32 KEPS NUT ZINC	11
8841	10-32 KEPS NUT ZINC	6
8797	5/16-18 KEPS NUT JS500	1
3796	ELASTOMER PAD TSIL 1.0X0.8	6
8581	CUSTOM PBL TRANSISTOR SPACER	6
3580	12 CIR WAFER W/LCK VT 0.1"	1
3818	EMI SUPPRESSION FERRITE BEAD T&R	2
4597	22AWG STRAN TC WIR JMP	15
4599	22AWG SOLID SC WIR T&R JMP	239
4745	5.0W 0R1 5% BLK RES	8
2006	1.0W 1R 5%FLAME PROOF T&R RES	4
4911	1/4W 2R2 5% T&R RES	4
4748	2.0W 3R9 5% T&R	2
2008	1.0W 10R 5%FLAME PROOF T&R RES	4
4605	1/8W 10R 5% T&R RES	4
2013	1/8W 22R1 1%FLAME PROOF T&R RES	2
4709	5.0W 22R 5% BLK RES	1
2016	1/8W 39R 2%FLAME PROOF T&R RES	4
6134	1/4W 47R 5%MINI T&R RES	6
2019	1/8W 100R0 1%FLAME PROOF T&R RES	24
4602	1/8W 100R 5% T&R RES	28
4921	1/4W 100R 5% .2"U T&R RES	18
4984	1/4W 150R 5%MINI T&R RES	3
2023	1/8W 220R0 1%FLAME PROOF T&R RES	8
4977	1/4W 220R 5%MINI T&R RES	12
2024	1/8W 249R 2%FLAME PROOF T&R RES	4
5010	1/4W 330RX9 5% 10PIN SIP RES	1
2028	1/8W 475R 1%FLAME PROOF T&R RES	2
4980	1/4W 470R 5%MINI T&R RES	30
4799	1/4W 562R 1% T&R RES	4
4922	1/4W 620R 5% .2"U T&R RES	8
5019	1/4W 620R 5%MINI T&R RES	14
2030	1/8W 681R 1%FLAME PROOF T&R RES	16
4923	1/4W 680R 5% .2"U T&R RES	4
4924	1/4W 750R 5% .2"U T&R RES	6
2031	1/8W 820R 5%FLAME PROOF T&R RES	4
4925	1/4W 820R 5% .2"U T&R RES	2
2033	1/8W 1K 2%FLAME PROOF T&R RES	4
4981	1/4W 1K 5%MINI T&R RES	17
6110	1/4W 1K0 1%MINI MF T&R RES	2
4585	1/4W 1K2 5%MINI T&R RES	21
4988	1/4W 1K5 5%MINI T&R RES	25
6105	1/4W 1K8 5%MINI T&R RES	4
6113	1/4W 2K 5%MINI T&R RES	4
6104	1/4W 2K2 5%MINI T&R RES	6
6114	1/4W 2K49 1%MINI MF T&R RES	3
6124	1/4W 3K 5%MINI T&R RES	4
5028	1/4W 3K74 1% T&R RES	4
4850	1/4W 3K9 5% T&R RES	2
4774	1/4W 4K12 1% T&R RES	4
4943	1/4W 4K7 5% .2"U T&R RES	2
4982	1/4W 4K7 5%MINI T&R RES	49
6128	1/4W 4K99 1%MINI MF T&R RES	42
6141	1/4W 5K6 5%MINI T&R RES	4
6121	1/4W 6K98 1%MINI MF T&R RES	4
4926	1/4W 7K5 5% .2"U T&R RES	18
4990	1/4W 8K2 5%MINI T&R RES	2
4983	1/4W 10K 5%MINI T&R RES	109
5031	1.0W 10K0 5% T&R	16
6116	1/4W 10K0 1%MINI MF T&R RES	80
4630	1/2W 15K 5% T&R RES	6
4979	1/4W 15K 5%MINI T&R RES	30
4954	1/4W 18K 5% .2"U T&R RES	12
6125	1/4W 18K 5%MINI T&R RES	2
6123	1/4W 20K0 1%MINI MF T&R RES	5
4777	1/4W 21K5 1% T&R RES	2
6118	1/4W 22K 5%MINI T&R RES	17
6129	1/4W 27K 5%MINI T&R RES	7
6122	1/4W 33K 5%MINI T&R RES	15
4868	1/4W 36K 5% T&R RES	4
4927	1/4W 47K 5% .2"U T&R RES	4
6119	1/4W 47K 5%MINI T&R RES	26
4928	1/4W 56K 5% .2"U T&R RES	14
4848	1/4W 62K 5% T&R RES	4
6139	1/4W 62K 5%MINI T&R RES	6
4929	1/4W 82K 5% .2"U T&R RES	14
4942	1/4W 100K 5% .2"U T&R RES	1
6120	1/4W 100K 5%MINI T&R RES	1
4991	1/4W 133K 1%MINI T&R RES	16
4796	1/4W 180K 5%MINI T&R RES	4
6126	1/4W 220K 5%MINI T&R RES	12
6127	1/4W 470K 5%MINI T&R RES	5
4948	1/4W 1M 5% .2"U T&R RES	2
4951	1/4W 4M7 5% .2"U T&R RES	7
6132	1/4W 8M2 5%MINI T&R RES	6
4809	1/4W 10M 5% T&R RES	2
4751	1/4W 22M 5% T&R RES	10
3519	28" 12C-26AWG RIB 1 W/LCK HDR 098	1
3722	RELAY 1A 30AMP DC24 036MA PC-C	2
8865	4-40 X 5/16 PAN PH MS JS500	33
8729	#4 X 3/8 FLAT QUAD TYPE A JS500 BLK	4
8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	18
8831	6-32 X 1/4 PAN PH TAPTITE ZN	1
8832	6-32 X 1/4 PAN PH TAPTITE JS500	28
8801	6-32 X 3/8 PAN PH TAPTITE JS500	1
8829	6-32 X 3/8 FLAT PH TAPTITE BO#4 HEA	3
8761	6-32 X 1/2 PAN PHIL MS ZINC CLEAR	16
8823	6-32 X 1 PAN PH TAPTITE JS500	3
8809	10-32 X 1/4 PAN PH TAPTITE JS500	8
8833	10-32 X 7/8 HEX CAP GRD 5 JS500	6
8893	10-32 X 1 FLAT PHILIPS TT JS500 BLK	10
8632	ROUND PUSH BUTTON 1/4" GREY	2
8736	5/16-18X2-3/4 GRD 5 HEX BOLT JS500	1
3663	SNAP IEC PWR SOC W/.250TAB FOR .060	1
8608	NYLON SPACER .200 OD .145 ID .110 L	16
3859	1/2 PLASTIC HEX SPACER #4	15
8657	6-32 X 3/8" HEX SPACER ALUMINUM	7
8682	#4 TEFLON WASHER .125ID .281OD .031	6
8482	3/8 1D FLAT WASHER	21
8818	3/4 OD X 3/8 ID X .080 THICK WASHER	2
3511	#6 FLAT WASHER NYLON	15
8485	#6 SPLIT WASHER ZINC	1
3524	NYLON SH/WASHER ID385 OD750 T060	4
3577	FIBER WASHER .625OD .380ID .03	4
3440	4PDT MINI VERT ALT SWITCH	1
3522	DPDT MINI PC VERT SNP ALT	2
3587	DPDT ROKR SW QUIK 250"AC/PWR ON-OFF	1
CH1258	M1610 POWER TRFMR T'RD	1

m810/m1610
Powered Wedge Mixer

#	Part#	Description
Labeled Components		
1	M810WS/M1610WS	PAIR OF SIDE GABLES BLACK FOR M810/M1610
2	8893	10-32 X 1 FLAT PHILIPS TT JS500 BLK BOLTS
3	3628	SPKON 4C PCB MT VERT 250TAB GRY
4	8637/3522	PUSHBUTTON 1/4" BLK / DPDT MINI PC VERT
5	3924	1/4" JCK PCB MT VERT 2XTIP HICU
6	9916	GRY SOFT GRAY RIB KNOB 0-DEG
7	9918	BLU SOFT GRAY RIB KNOB 0-DEG
8	9917	GRN SOFT GRAY RIB KNOB 0-DEG
9	9919	YEL SOFT GRAY RIB KNOB 0-DEG
10	9920	WHT SOFT GRAY RIB KNOB 0-DEG
11	9921	GREY KNB W/O COVERING 0-DEG
12	8397	GREY STYLE 2 KNOB
13	8632	ROUND PUSH BUTTON 1/4" GREY
14	4010	XLR FEML PCB MT VERT 24MM AA-SE
15	3466	RCA DUAL PCB MT VERT GOLD 24MM
16	3450 & 3450NUT	1/4" ALL GOLD PC MNT JK SKT
17	2408/2456	8.0a CIR BREAKER (CE = 4,0A CIR BREAKER
18	3587	DPDT ROKR SW QUIK 250"AC/PWR ON
19	3663	SNAP IEC PWR SOC W/.250TAB
20	3426	8' 3/16 SJT AC LINE CORD REMOVB-CSA
21	3474	6' 3X.075MM AC LINE CORD EURO-REMOV

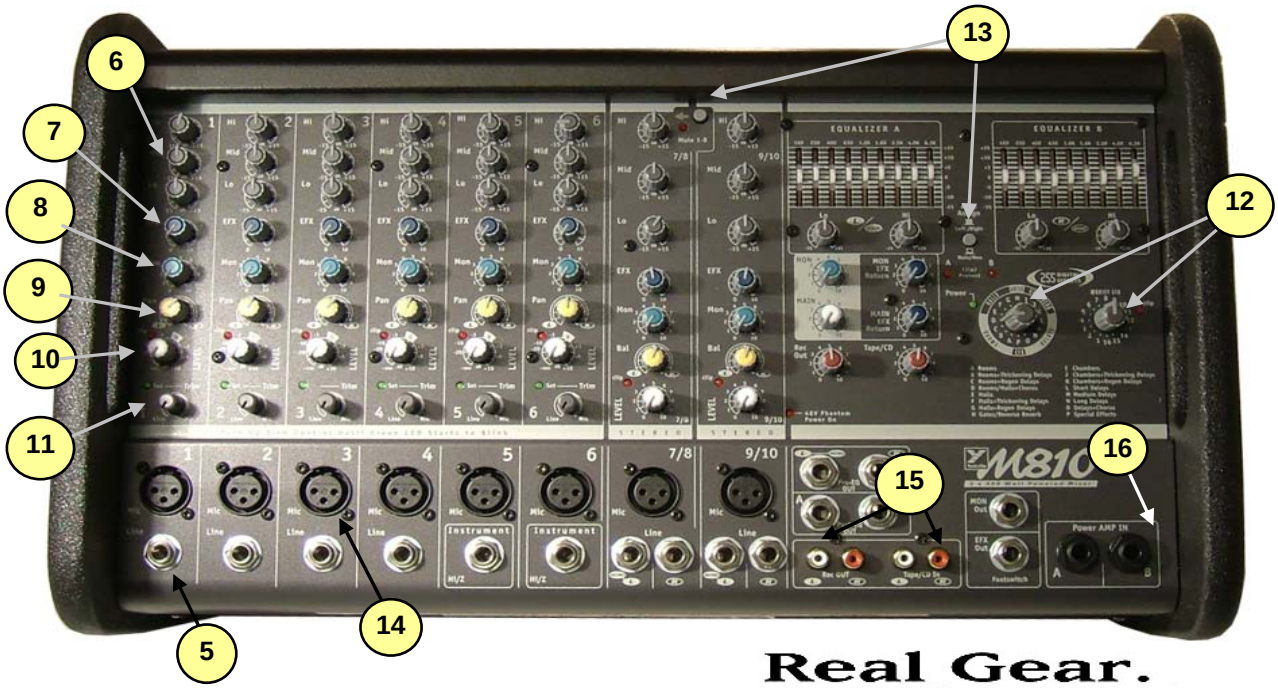






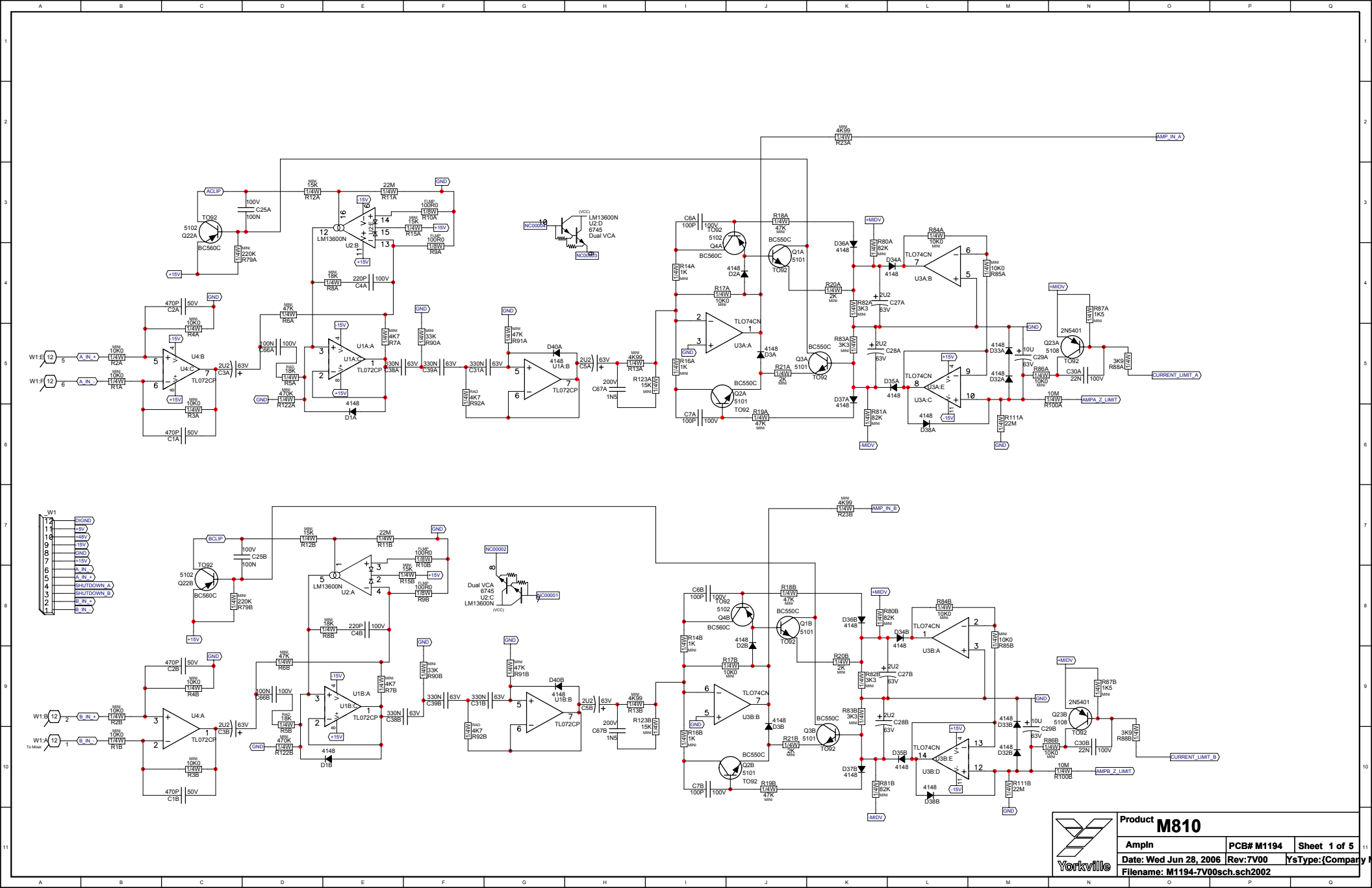
21 EURO PWR CORD

Series 2 EFX section



* gables only available when product is in production

Real Gear.
Real People.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W1:F
A_IN_+
A_IN_-
U4:B
U4:C
TL072CP
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10K0 R1A
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10K0 R3A
470P C2A
470P C1A
50V
2U2 C3A
63V
ACLIP
100V C25A
100N
TO92
5102 Q22A
BC560C
220K R79A
+15V
GND
15K R12A
22M R11A
100R0 R10A
100R0 R9A
LM13600N
U2:B
U2:A
18K R8A
220P C4A
100V
47K R6A
100N C66A
18K R5A
470K R122A
U1A:A
U1A:C
4K7 R7A
33K R90A
330N C38A
330N C39A
330N C31A
4148 D1A
47K R91A
U1A:B
D40A
4148
2U2 C5A
4K7 R92A
4K99 R13A
15K R123A
200V C67A
1N5
NC00004
NC00003
LM13600N
U2:D
6745
Dual VCA
C6A 100P
100V
TO92
5102 Q4A
BC560C
R14A 1K
R17A 10K0
4148 D2A
R18A 47K
BC550C
Q1A 5101
TO92
TLO74CN
U3A:A
U3A:B
U3A:C
U3A:D
U3A:E
R16A 1K
4148 D3A
BC550C
Q2A 5101
TO92
R19A 47K
C7A 100P
R21A 2K
Q3A 5101
R20A 2K
+MIDV
-MIDV
R80A 82K
R82A 3K3
R83A 3K3
R84A 10K0
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D36A 4148
D34A 4148
D35A 4148
D37A 4148
D38A 4148
+2U2 C27A
63V
+2U2 C28A
63V
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R111A 22M
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D32A 4148
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63V
R86A 10K0
C30A 22N
100V
10M R100A
2N5401
Q23A 5108
TO92
R87A 1K5
3K9 R88A
AMP_IN_A
CURRENT_LIMIT_A
AMPA_Z_LIMIT
4K99 R23A
W1
DIGND
+8V
+48V
-15V
SHUTDOWN_A
SHUTDOWN_B
B_IN_+
B_IN_-
BCLIP
C25B
R79B
R12B
R11B
R10B
R9B
U2:A
R8B
C4B
R6B
C66B
R5B
R122B
U1B:A
U1B:C
R7B
R90B
C38B
C39B
C31B
D1B
R91B
U1B:B
D40B
C5B
C67B
R92B
R13B
R123B
C6B
R14B
R17B
R16B
Q4B
Q1B
R20B
R21B
Q2B
R19B
C7B
R80B
R82B
R83B
R84B
R85B
D36B
D34B
D35B
D37B
D38B
+2U2 C27B
+2U2 C28B
R81B
R111B
D33B
D32B
+10U C29B
R86B
C30B
Q23B 5108
R87B
3K9 R88B
R100B
AMP_IN_B
CURRENT_LIMIT_B
AMPB_Z_LIMIT
4K99 R23B
Yorkville
Product M810
Ampln
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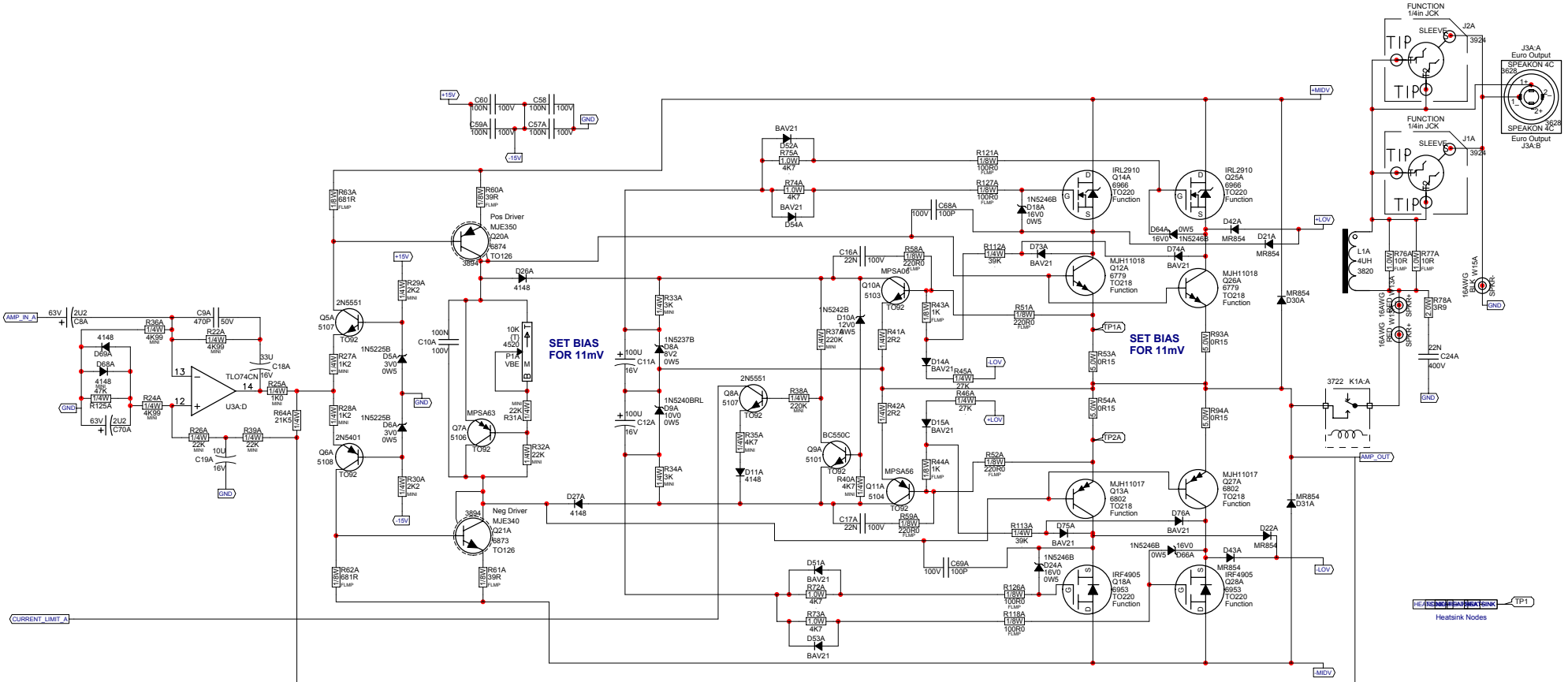
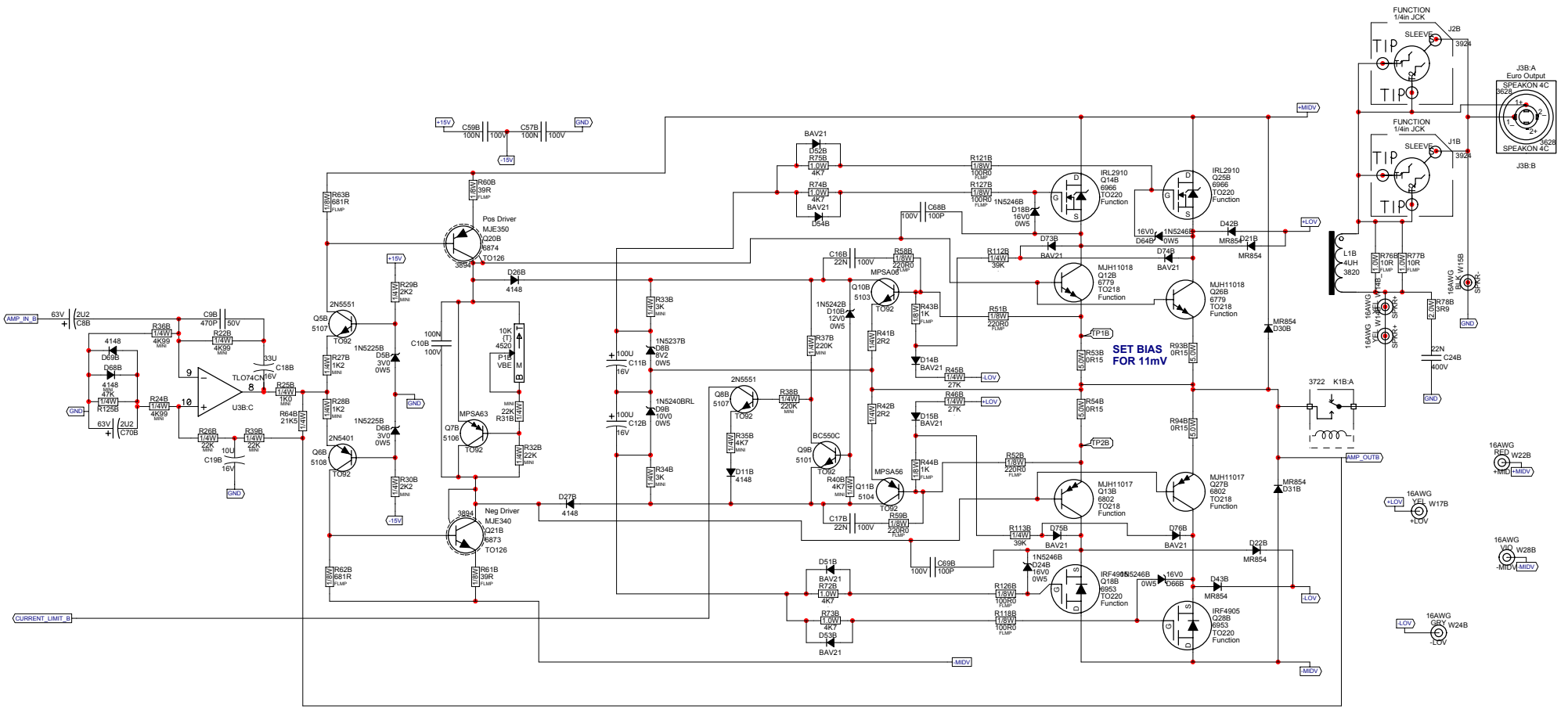
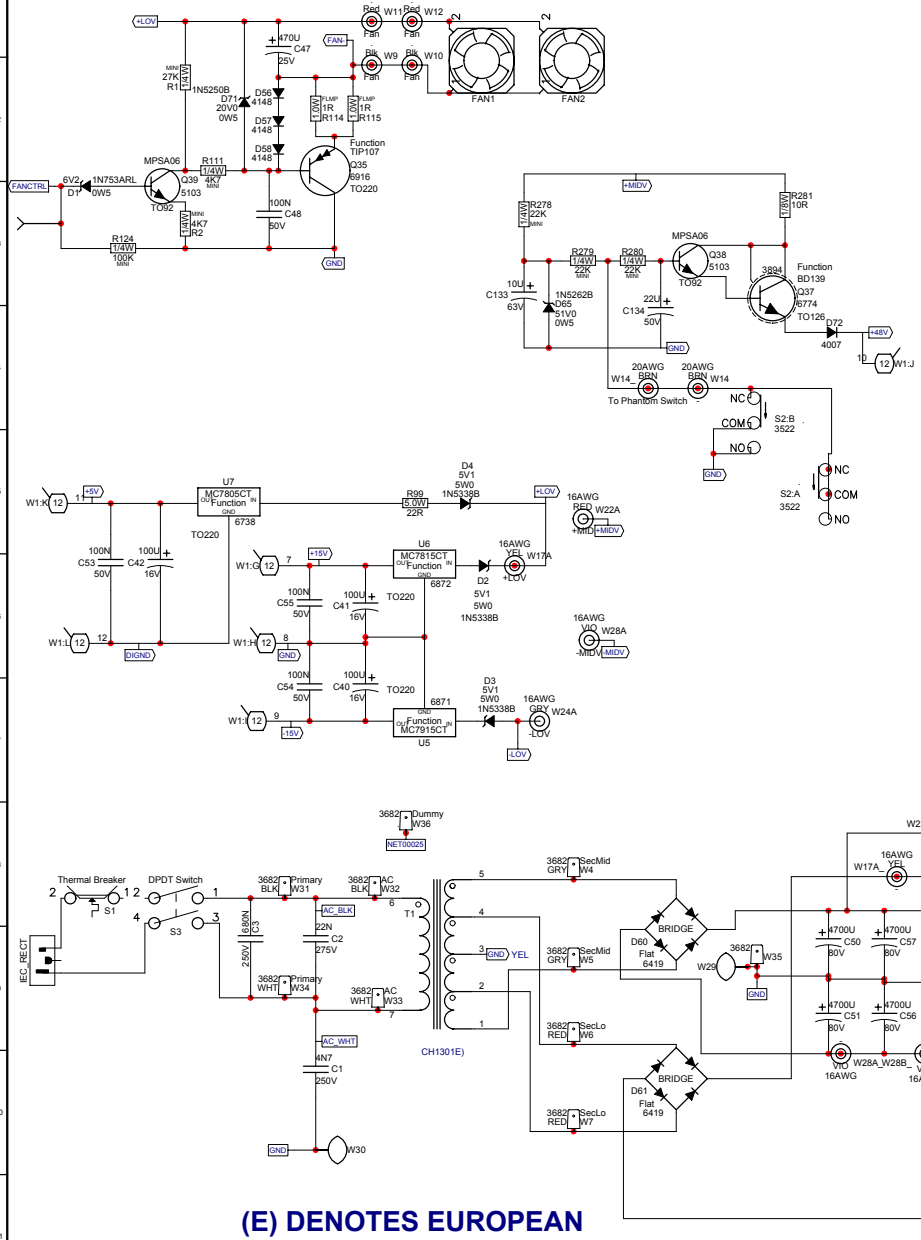
Sheet 1 of 5
Date: Wed Jun 28, 2006
Rev:7V00
YsType:{Company N
Filename: M1194-7V00sch.sch2002



Yorkville	Product **M810**	**Amp A**	
	Channel A	PCB# M1194	Sheet 2 of 5
	Date: Wed Jun 28, 2006	Rev:7V00	YsType:{Company N
	Filename: M1194-7V00sch.sch2002		

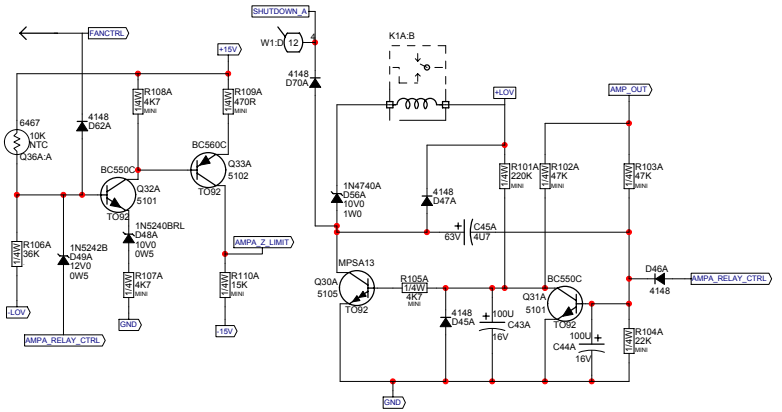


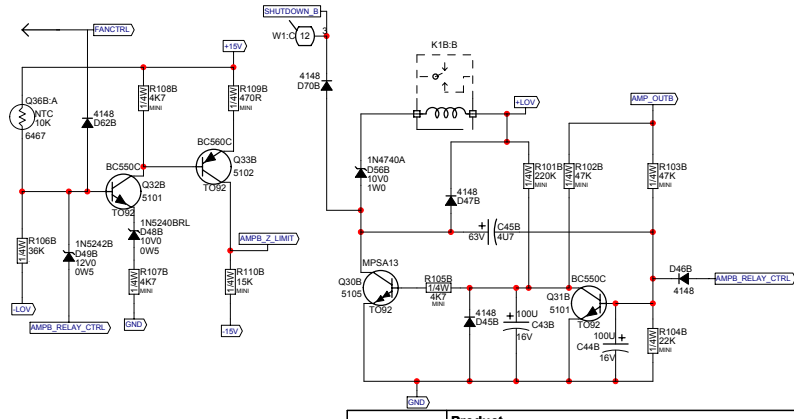
Yorkville	Product **M810** **Amp B**		
	Channel B	PCB# M1194	Sheet 3 of 5
	Date: Wed Jun 28, 2006	Rev:7V00	YsType:{Company N
	Filename: M1194-7V00sch.sch2002		

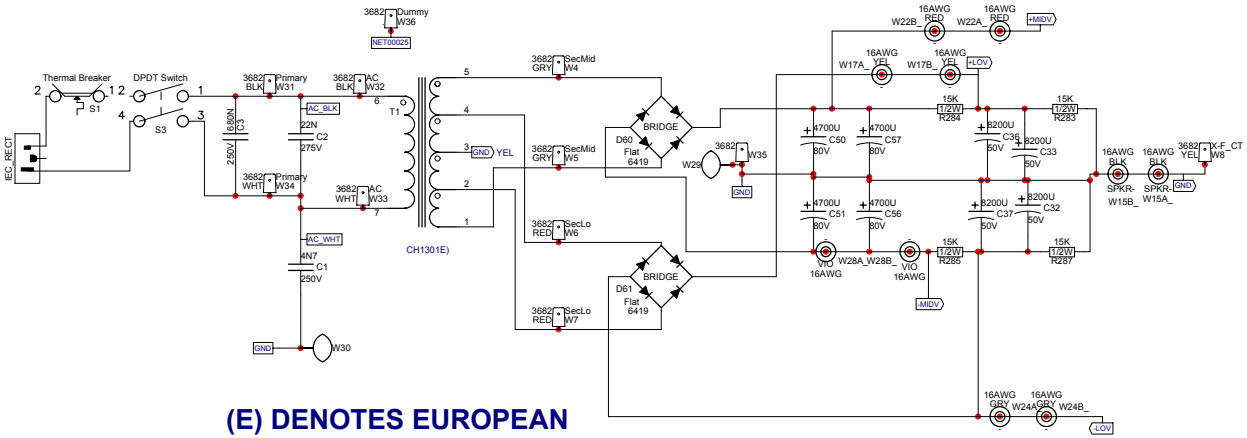


M1194.PCB_DATABASE_HISTORY			
MODEL(S):-	M810		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	10 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	1-APR-2004	1.10	PC#6674 Change R31A,B 15k-->22k (4979-->6118)
5	15-APR-2004	1.20	PC#6678 Chg. R5A,B 6k8->18k; R82A,B 5k6->3k3 R83A,B 56k->3k3; R80A,B, R81A,B 133k->100k
6	D	V	
7	21-APR-2004	1.20	PC#6681 Modified route to let grn wire pass near power jacks
8	6-MAY-2004	2.00	PC#6685 R80&R81(A,B) 100K->82K, ADDED D71, D72
9	JUN/17/2004	2.10	PC# 6707 Q12 (A+B) Q26 (A+B) TIP142 -> MJH11018
10	.	.	Q13 (A+B) , Q27 (A+B) TIP147 -> MJH11017
11	13 Sept. 2004	2.11	TC:PC#6763:Moved HS alignment hole to match HS
12	JAN-05-2005	4.00	PC#6808 R72,R73,R74,R75 FROM 10K0 1W TO 4K7 1W
13	.	.	D8 A/B 12V0 TO 8V2, D9A/B 14V0 TO 10V0, D10A/B 16V0
14	.	.	TO 12V0. ADD R112A/B, R113A/B (36K), D73A/B, D74A/B
15	.	.	D75A/B, D76A/B (BAV21). R45A/B, R46A/B 36K TO 30K
16	.	.	REMOVE D16,D17,R47,R48,R49, R50 (ALL A/B)
17	.	.	ADD JUMPERS X1 TO X12
18	.	.	PC#6794: AC CLEARANCE FIX
19	MAR-24-2005	5.00	FIXED MASK SPREAD TO 30MIL
20	APR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
21	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
22	JUN-29-2005	6.00	PC#6920:GT:R106A/B #6122 33K->#4868 36K, D56A/B #6440 4V7/0W5->#6484 10V1W, C32&C33#5903 12000U/
23	.	.	

#	DATE	VER#	DESCRIPTION OF CHANGE
24	.	.	35V AND C36&C37#58964700/80V->#5898 8200U/50V
25	.	.	UPDATED BIAS NOTE TO READ 11mV, R45A/B&R46A/B
26	.	.	#4890 30K->#4833 27K, R112A/B&R113A/B #4868 36K->
27	.	.	#4853 39K, C25A/B #5224 47N/100V->#5212 100N/63V,
28	.	.	R79A/B #6127 470K->#6126 220K, SWAPPED W8 AND W35
29	19-JUN-2006	7.00	AH_PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	D	V	N
32	D	V	N
33	D	V	N
34	D	V	N
35	D	V	N
36	D	V	N
37	D	V	N
38	D	V	N
39	D	V	N
40	D	V	N
41	D	V	N
42	D	V	N
43	D	V	N
44	D	V	N
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N







(E) DENOTES EUROPEAN

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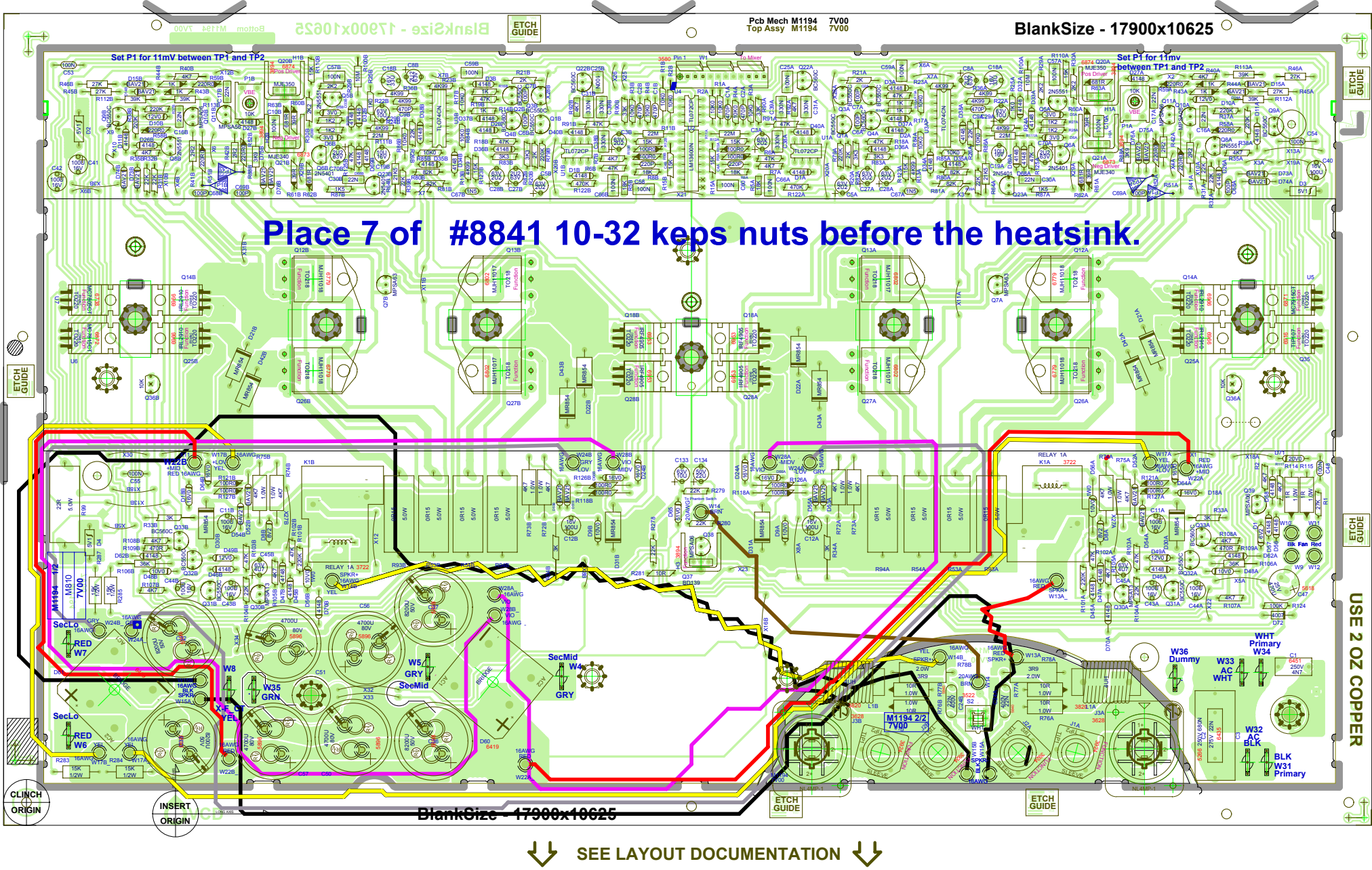
Product M810		
Power Supply	PCB# M1194	Sheet 4 of 5
Date: Wed Jun 28, 2006	Rev:7V00	YsType:{Company N
Filename: M1194-7V00sch.sch2002		


Pcb Mech M1194 7V00
Top Assy M1194 7V00
BlankSize - 17900x10625
Set P1 for 11mV between TP1 and TP2
Set P1 for 11mv between TP1 and TP2
Place 7 of #8841 10-32 keps nuts before the heatsink.
ETCH GUIDE
USE 2 OZ COPPER
CLINCH ORIGIN
INSERT ORIGIN
M1194 1/2 7V00
M1194 2/2 7V00
SecLo
SecMid
RED W7
RED W6
W8
W35 GRN
W5 GRY SecMid
W4 GRY
W36 Dummy
W33 AC WHT
WHT Primary W34
W32 AC BLK
BLK W31 Primary
SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

M1194.PCB_DATABASE_HISTORY

MODEL(S):- M810

#	DATE	VER#	DESCRIPTION OF CHANGE
1	10 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	1-APR-2004	1.10	PC#6674 Change R31A,B 15k->22k (4979->6118)
5	15-APR-2004	1.20	PC#6678 Chg. R5A,B 8k8->18k; R82A,B 5k6->3k3 R83A,B 56k->3k3; R80A,B, R81A,B 133k->100k
6			
7	21-APR-2004	1.20	PC#6681 Modified route to let grn wire pass near power supply
8	6-MAY-2004	2.00	PC#6685 R80&R81(A,B) 100K->82K, ADDED D71, D72
9	JUN/17/2004	2.10	PC# 6707 Q12 (A+B) Q26 (A+B) TIP142 -> MJH11018
10			Q13 (A+B), Q27 (A+B) TIP147 -> MJH11017
11	13 Sept, 2004	2.11	TC:PC#6763:Moved HS alignment hole to match HS
12	JAN-05-2005	4.00	PC#6808 R72,R73,R74,R75 FROM 10K0 1W TO 4K7 1W
13	.	.	D8 A/B 12V0 TO 8V2, D9A/B 14V0 TO 10V0, D10A/B 16V0
14	.	.	TO 12V0. ADD R112A/B, R113A/B (36K), D73A/B, D74A/B
15	.	.	D75A/B, D76A/B (BAV21). R45A/B, R46A/B 36K TO 30K
16	.	.	REMOVE D16,D17,R47,R48,R49, R50 (ALL A/B)
17	.	.	ADD JUMPERS X1 TO X12
18	.	.	PC#6794: AC CLEARANCE FIX
19	MAR-24-2005	5.00	FIXED MASK SPREAD TO 30MIL
20	APR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
21	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
22	JUN-29-2005	6.00	PC#6920:GT:R106A/B #6122 33K->#4868 36K, D56A/B
23	.	.	#6440 4V7/0W5->#6484 10V1W, C32&C33#5903 12000U/
24	.	.	35V AND C36&C37#58964700/80V->#5898 8200U/50V
25	.	.	UPDATED BIAS NOTE TO READ 11mV, R45A/B&R46A/B
26	.	.	#4890 30K->#4833 27K, R112A/B&R113A/B #4868 36K->
27	.	.	#4853 39K, C25A/B #5224 47N/100V->#5212 100N/63V,
28	.	.	R79A/B #6127 470K->#6126 220K, SWAPPED W8 AND W35
29	19-JUN-2006	7.00	AH, PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	D	V	N
32	D	V	N
33	D	V	N
34	D	V	N
35	D	V	N
36	D	V	N
37	D	V	N
38	D	V	N
39	D	V	N
40	D	V	N
41	D	V	N
42	D	V	N
43	D	V	N
44	D	V	N
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N

DRILL & ROUTE HISTORY

MODEL(S):- M810

#	DATE	VER#	DESCRIPTION OF CHANGE
1	10-MAR-2004	V02	Enlarged routing for hex nuts
2	5-MAY-2004	V03	Added notch to routing to pass GRN wire from front
3	6-MAY-2004	V04	To match v2.00 changes
4	JAN-05-2005	V05	PC#6763 MOVE TOP LEFT HEATSINK LINE-UP HOLE
5	20 Apr,2005	5.11	Corrected 'BlankSize' field for clinch program
6	.	.	Corrected pad orientations on 4520, 5840 and 3722
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

M1194 PENDING CHANGES

MODEL(S):- M810

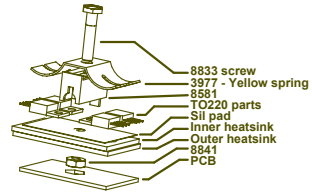
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

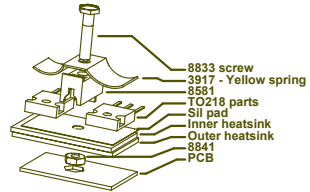
PRODUCTION NOTES

1. Use three 8832 screws to align and attach the heatsinks to the board.
2. When assembling heatsinks to Q20(A&B),Q21(A&B),Q37, ensure heatsinks are straight and sit flat against board. Add a very small amount of RTV between heatsink and board if necessary. This prevent heatsink from shorting other components.
3. Add grease under middle tier mosfets.

4XTO220-MTG



2XTO218-MTG



STEREO DIGITAL EFFECTS

YORKVILLE SOUND • DIGITAL EFFECTS BY A.R.T.

A ROOMS

1 0.5s Bright Small Room
2 0.5s Warm Small Room
3 0.5s Dark Small Room
4 0.8s Bright Small Room
5 0.8s Warm Small Room
6 1.0s Bright Small Room
7 1.0s Warm Small Room
8 1.2s Bright Medium Room
9 1.2s Warm Medium Room
10 1.5s Bright Medium Room
11 1.5s Warm Medium Room
12 1.5s Dark Medium Room
13 2.0s Bright Large Room
14 2.0s Warm Large Room
15 2.5s Bright Large Room
16 2.5s Warm Large Room

B ROOMS & THICKENING DELAYS

1 0.5s Bright Small Room + 50ms doubling delay
2 0.5s Warm Small Room + 40ms doubling delay
3 0.5s Dark Small Room + 40ms doubling delay
4 0.8s Bright Small Room + 60ms doubling delay
5 0.8s Warm Small Room + 50ms doubling delay
6 1.0s Bright Small Room + 70ms slap delay
7 1.0s Warm Small Room + 50ms doubling delay
8 1.2s Bright Medium Room + 50ms doubling delay
9 1.2s Warm Medium Room + 50ms doubling delay
10 1.5s Bright Medium Room + 80ms slap delay
11 1.5s Warm Medium Room + 60ms doubling delay
12 1.5s Dark Medium Room + 70ms slap delay
13 2.0s Bright Large Room + 80ms slap delay
14 2.0s Warm Large Room + 60ms doubling delay
15 2.5s Bright Large Room + 100ms slap delay
16 2.5s Warm Large Room + 80ms slap delay

C ROOMS & REGENERATION DELAYS

1 0.5s Bright Small Room + 200ms regen delay
2 0.5s Warm Small Room + 175ms regen delay
3 0.5s Dark Small Room + 150ms regen delay
4 0.8s Bright Small Room + 200ms regen delay
5 0.8s Warm Small Room + 150ms regen delay
6 1.0s Bright Small Room + 175ms regen delay
7 1.0s Warm Small Room + 125ms regen delay
8 1.2s Bright Medium Room + 150ms regen delay
9 1.2s Warm Medium Room + 200ms regen delay
10 1.5s Bright Medium Room + 200ms regen delay
11 1.5s Warm Medium Room + 175ms regen delay
12 1.5s Dark Medium Room + 150ms regen delay
13 2.0s Bright Large Room + 200ms regen delay
14 2.0s Warm Large Room + 125ms regen delay
15 2.5s Bright Large Room + 150ms regen delay
16 2.5s Bright Large Room + 200ms regen delay

D ROOMS / HALLS & CHORUS

1 0.5s Bright Room + slow chorus
2 0.8s Warm Room + medium chorus
3 1.0s Bright Room + slow chorus
4 1.2s Warm Room + medium chorus
5 1.5s Bright Room + slow chorus
6 1.8s Warm Room + slow chorus
7 2.5s Bright Room + medium chorus
8 3.0s Warm Room + slow chorus
9 2.0s Bright Hall + slow chorus
10 2.5s Warm Hall + medium chorus
11 2.5s Bright Hall + slow chorus
12 3.0s Warm Hall + slow chorus
13 3.5s Warm Hall + slow chorus
14 3.5s Bright Hall + medium chorus
15 5.0s Warm Hall + slow chorus
16 8.0s Warm Hall + slow chorus

E HALLS

1 1.5s Dark Medium Hall
2 1.5s Warm Medium Hall
3 1.5s Bright Medium Hall
4 2.0s Dark Medium Hall
5 2.0s Warm Medium Hall
6 2.0s Bright Medium Hall
7 2.5s Dark Medium Hall
8 2.5s Warm Medium Hall
9 2.5s Bright Medium Hall
10 3.5s Dark Medium Hall
11 3.5s Warm Medium Hall
12 3.5s Bright Medium Hall
13 5.0s Dark Large Hall
14 5.0s Warm Large Hall
15 8.0s Dark Huge Hall
16 8.0s Warm Huge Hall

F HALLS & THICKENING DELAYS

1 1.5s Dark Medium Hall + 50ms doubling delay
2 1.5s Warm Medium Hall + 70ms slap delay
3 1.5s Bright Medium Hall + 90ms slap delay
4 2.0s Dark Medium Hall + 90ms slap delay
5 2.0s Warm Medium Hall + 70ms slap delay
6 2.0s Bright Medium Hall + 50ms doubling delay
7 2.5s Dark Medium Hall + 70ms slap delay
8 2.5s Warm Medium Hall + 80ms slap delay
9 2.5s Bright Medium Hall + 100ms slap delay
10 3.5s Dark Medium Hall + 80ms slap delay
11 3.5s Warm Medium Hall + 90ms slap delay
12 3.5s Bright Medium Hall + 100ms slap delay
13 5.0s Dark Large Hall + 80ms slap delay
14 5.0s Bright Large Hall + 100ms slap delay
15 8.0s Dark Huge Hall + 100ms slap delay
16 8.0s Warm Huge Hall + 100ms slap delay

G HALLS & REGENERATION DELAYS

1 1.5s Dark Medium Hall + 150ms regen delay
2 1.5s Warm Medium Hall + 175ms regen delay
3 1.5s Bright Medium Hall + 200ms regen delay
4 2.0s Dark Medium Hall + 200ms regen delay
5 2.0s Warm Medium Hall + 150ms regen delay
6 2.0s Bright Medium Hall + 175ms regen delay
7 2.5s Dark Medium Hall + 200ms regen delay
8 2.5s Warm Medium Hall + 150ms regen delay
9 2.5s Bright Medium Hall + 175ms regen delay
10 3.5s Dark Medium Hall + 125ms regen delay
11 3.5s Dark Medium Hall + 150ms regen delay
12 3.5s Bright Medium Hall + 200ms regen delay
13 5.0s Dark Large Hall + 175ms regen delay
14 5.0s Bright Large Hall + 200ms regen delay
15 8.0s Dark Large Hall + 150ms regen delay
16 8.0s Bright Large Hall + 200ms regen delay

H GATED / REVERSE REVERB

1 0.8s decay 100ms Gate
2 0.8s decay 200ms Gate
3 1.2s decay 100ms Gate
4 1.2s decay 200ms Gate
5 1.8s decay 150ms Gate
6 1.8s decay 200ms Gate
7 2.0s decay 300ms Gate
8 2.0s decay 300ms Gate
9 2.5s decay 250ms Gate
10 2.5s decay 400ms Gate
11 0.5s decay 100ms Reverse
12 0.5s decay 200ms Reverse
13 1.0s decay 100ms Reverse
14 1.0s decay 200ms Reverse
15 2.5s decay 250ms Reverse
16 4.0s decay 300ms Reverse

I CHAMBERS / PLATES

1 0.8s Warm Chamber
2 0.8s Bright Chamber
3 1.2s Warm Chamber
4 1.2s Bright Chamber
5 1.5s Warm Chamber
6 1.5s Bright Chamber
7 2.5s Warm Chamber
8 2.5s Bright Chamber
9 3.5s Warm Chamber
10 3.5s Bright Chamber
11 0.3s Bright Plate
12 0.5s Bright Plate
13 0.8s Bright Plate
14 1.2s Bright Plate
15 1.5s Bright Plate
16 2.0s Bright Plate

J CHAMBERS / PLATES + THICKENING DELAYS

1 0.8s Warm Chamber + 50ms doubling delay
2 0.8s Bright Chamber + 50ms doubling delay
3 1.2s Warm Chamber + 60ms doubling delay
4 1.2s Bright Chamber + 70ms slap delay
5 1.5s Warm Chamber + 70ms slap delay
6 1.5s Bright Chamber + 80ms slap delay
7 2.5s Warm Chamber + 80ms slap delay
8 2.5s Bright Chamber + 100ms slap delay
9 3.5s Warm Chamber + 90ms slap delay
10 3.5s Bright Chamber + 100ms slap delay
11 0.3s Bright Plate + 40ms doubling delay
12 0.5s Bright Plate + 50ms doubling delay
13 0.8s Bright Plate + 50ms doubling delay
14 1.2s Bright Plate + 80ms slap delay
15 1.5s Bright Plate + 80ms slap delay
16 2.0s Bright Plate + 100ms slap delay

K CHAMBERS / PLATES + REGEN DELAYS

1 0.8s Warm Chamber + 150ms regen delay
2 0.8s Bright Chamber + 125ms regen delay
3 1.2s Warm Chamber + 175ms regen delay
4 1.2s Bright Chamber + 200ms regen delay
5 1.5s Warm Chamber + 150ms regen delay
6 1.5s Bright Chamber + 200ms regen delay
7 2.5s Warm Chamber + 175ms regen delay
8 2.5s Bright Chamber + 125ms regen delay
9 3.5s Warm Chamber + 200ms regen delay
10 3.5s Bright Chamber + 150ms regen delay
11 0.3s Bright Plate + 125ms regen delay
12 0.5s Bright Plate + 150ms regen delay
13 0.8s Bright Plate + 200ms regen delay
14 1.2s Bright Plate + 175ms regen delay
15 1.5s Bright Plate + 150ms regen delay
16 2.0s Bright Plate + 200ms regen delay

L SHORT DELAYS

1 30ms slap delay
2 35ms slap delay
3 40ms slap delay
4 50ms slap delay
5 60ms slap delay
6 70ms slap delay
7 80ms slap delay
8 90ms slap delay
9 100ms slap delay
10 100ms regen delay
11 125ms low regen delay
12 125ms medium regen delay
13 150ms low regen delay
14 150ms medium regen delay
15 175ms low regen delay
16 175ms medium regen delay

M MEDIUM DELAYS

1 200ms low regen delay
2 200ms medium regen delay
3 225ms low regen delay
4 225ms medium regen delay
5 250ms low regen delay
6 250ms medium regen delay
7 275ms low regen delay
8 275ms medium regen delay
9 300ms low regen delay
10 300ms medium regen delay
11 325ms low regen delay
12 325ms medium regen delay
13 350ms low regen delay
14 350ms medium regen delay
15 375ms low regen delay
16 375ms medium regen delay

N LONG DELAYS

1 390ms low regen delay
2 390ms medium regen delay
3 400ms low regen delay
4 400ms medium regen delay
5 410ms low regen delay
6 410ms medium regen delay
7 420ms low regen delay
8 420ms medium regen delay
9 430ms low regen delay
10 430ms medium regen delay
11 450ms low regen delay
12 450ms medium regen delay
13 475ms low regen delay
14 475ms medium regen delay
15 500ms low regen delay
16 500ms medium regen delay

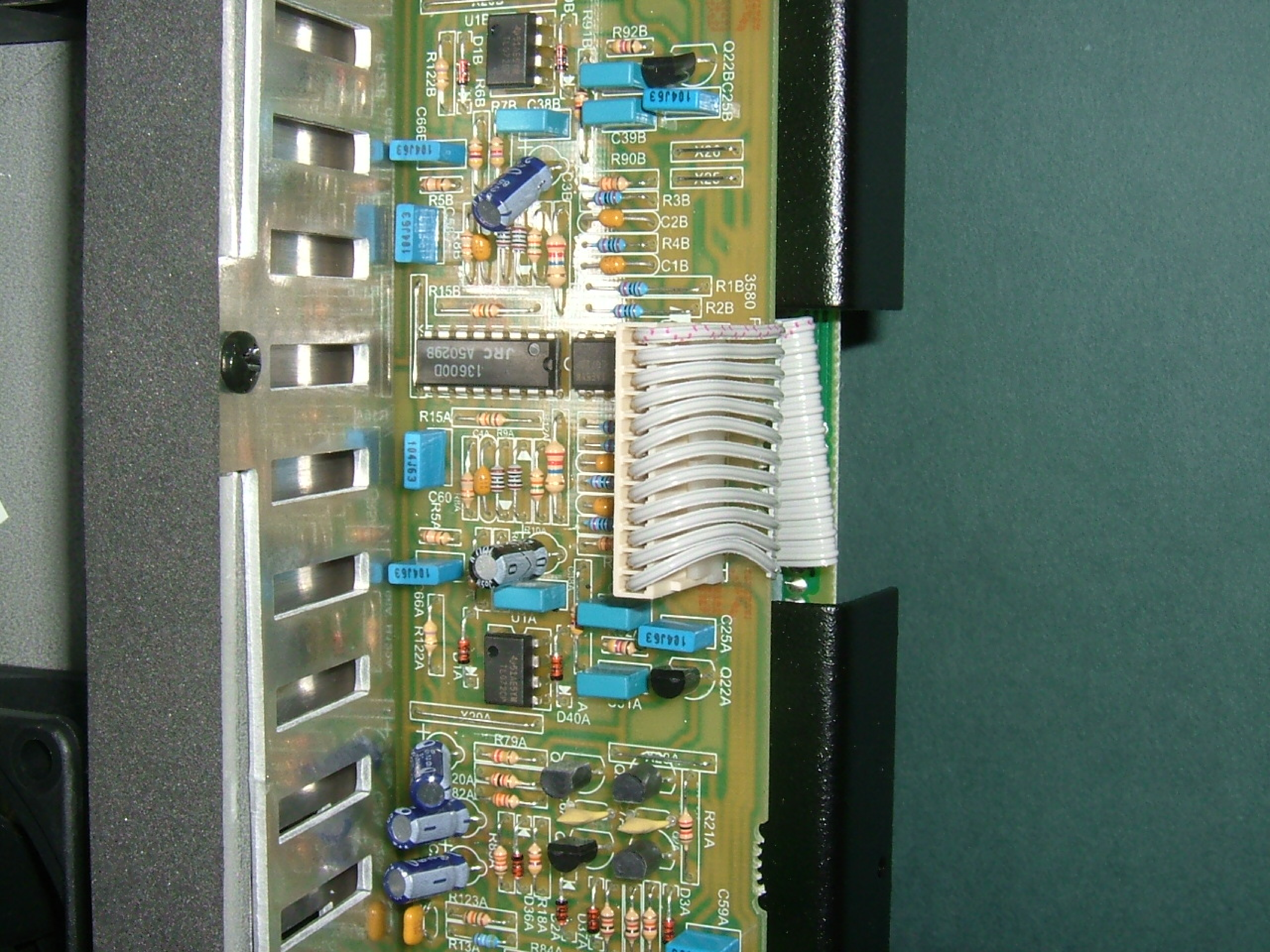
O DELAYS & CHORUS

1 50ms doubling delay + slow chorus
2 80ms slap delay + medium chorus
3 100ms slap delay + medium chorus
4 150ms regen delay + slow chorus
5 175ms regen delay + medium chorus
6 200ms regen delay + slow chorus
7 225ms regen delay + medium chorus
8 250ms regen delay + slow chorus
9 275ms regen delay + medium chorus
10 300ms regen delay + slow chorus
11 325ms regen delay + medium chorus
12 350ms regen delay + slow chorus
13 370ms regen delay + medium chorus
14 380ms regen delay + slow chorus
15 390ms regen delay + medium chorus
16 400ms regen delay + slow chorus

P SPECIAL EFFECTS

1 Pitch Shift octave down
2 Pitch Shift octave up
3 Pitch Shift major 3rd up
4 Pitch Shift major 5th down
5 Dual Pitch Shift major 3rd and 5th up
6 Dual Pitch Shift octave up and octave down
7 Detune Flanger
8 Slow Flanger w/ medium regen
9 Slow Flanger w/ high regen
10 Medium Flanger w/ medium regen
11 Medium Flanger w/ high regen
12 250ms high regen delay
13 500ms medium regen delay
14 500ms high regen delay
15 Slow Flanger + Pitch Shift octave down
16 Slow Flanger + Pitch Shift ocatve up

255 PRESET 16 Bit DIGITAL EFFECTS PROCESSOR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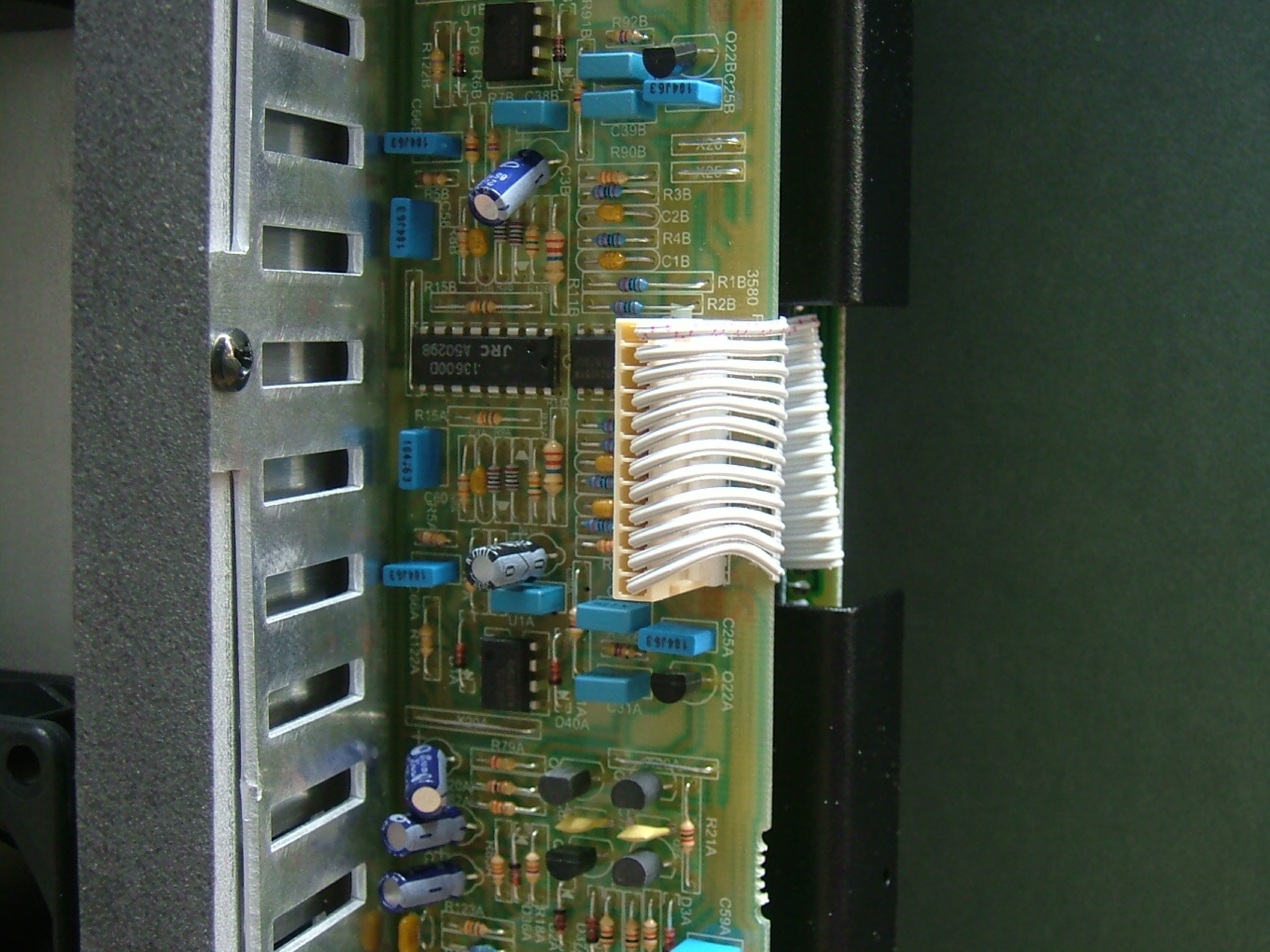
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C39B
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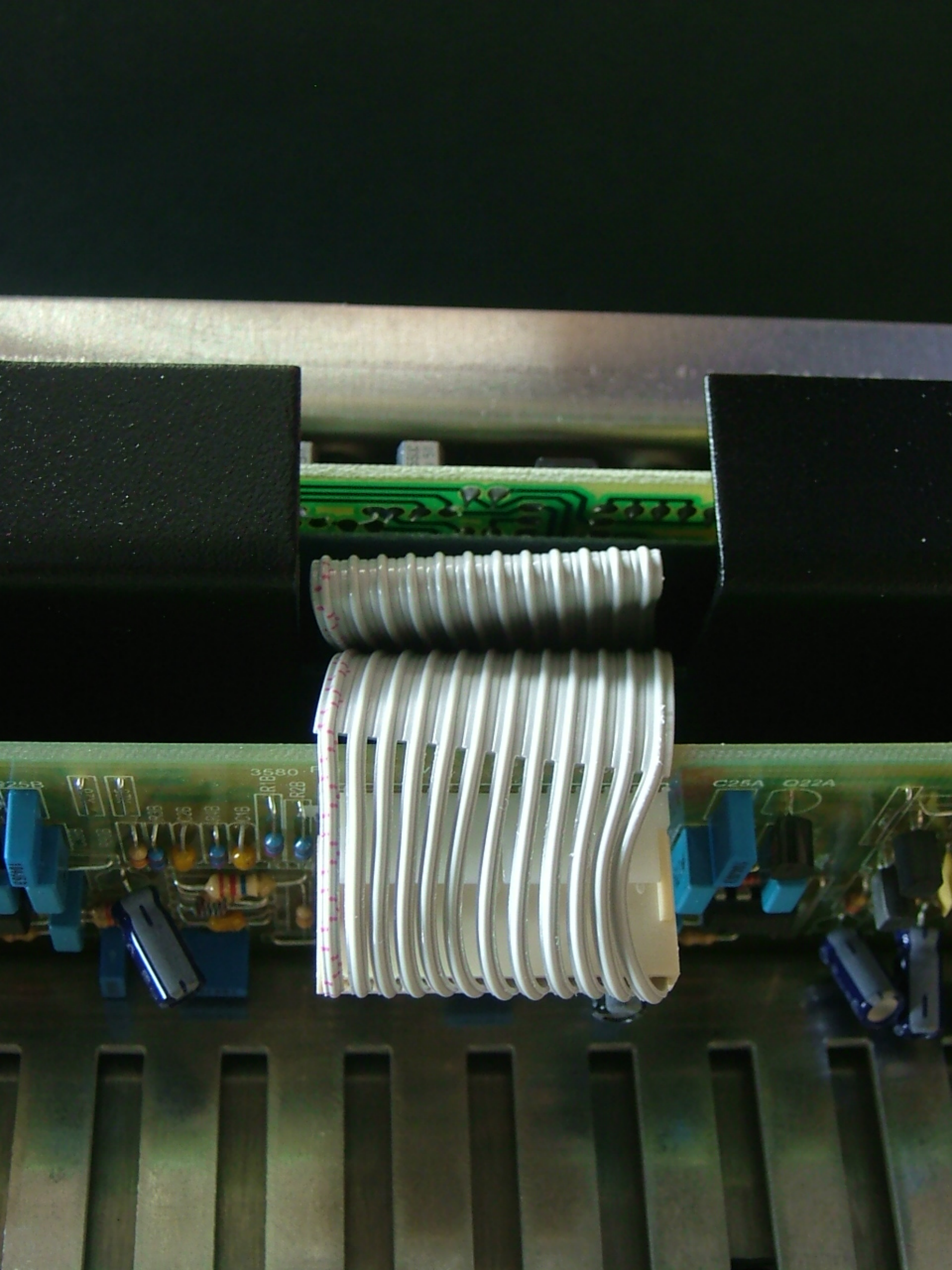
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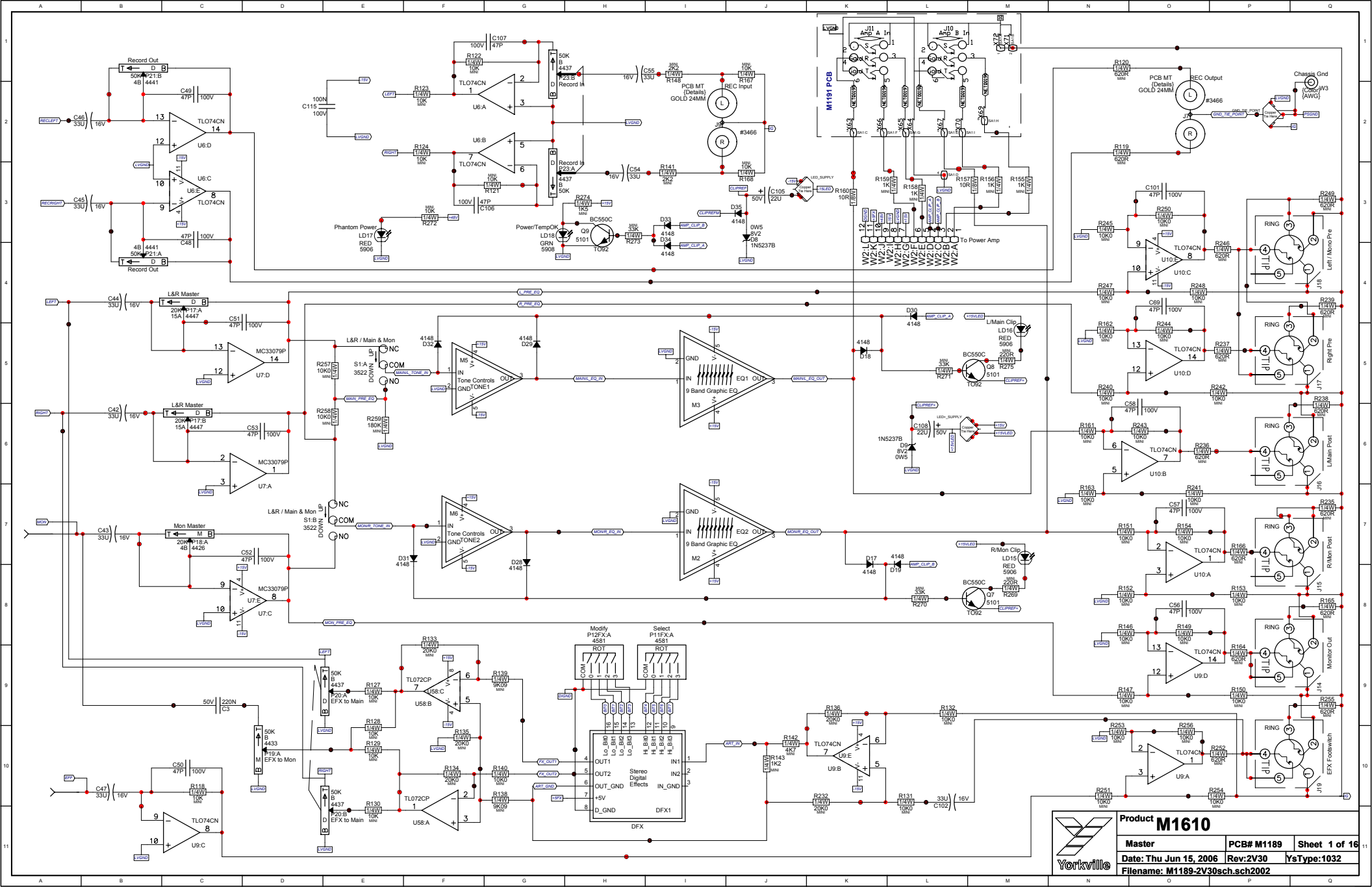
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L&R Master
Mon Master
L&R / Main & Mon
Phantom Power
Power/TempOK
REC Input
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Chassis Gnd
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To Power Amp
L/Main Clip
R/Mon Clip
Modify P12FX:A 4581
Select P11FX:A 4581
Stereo Digital Effects
DFX
Left / Mono Pre
Right Pre
L/Main Post
R/Mon Post
Monitor Out
EFX Footswitch
Product M1610
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Rev:2V30
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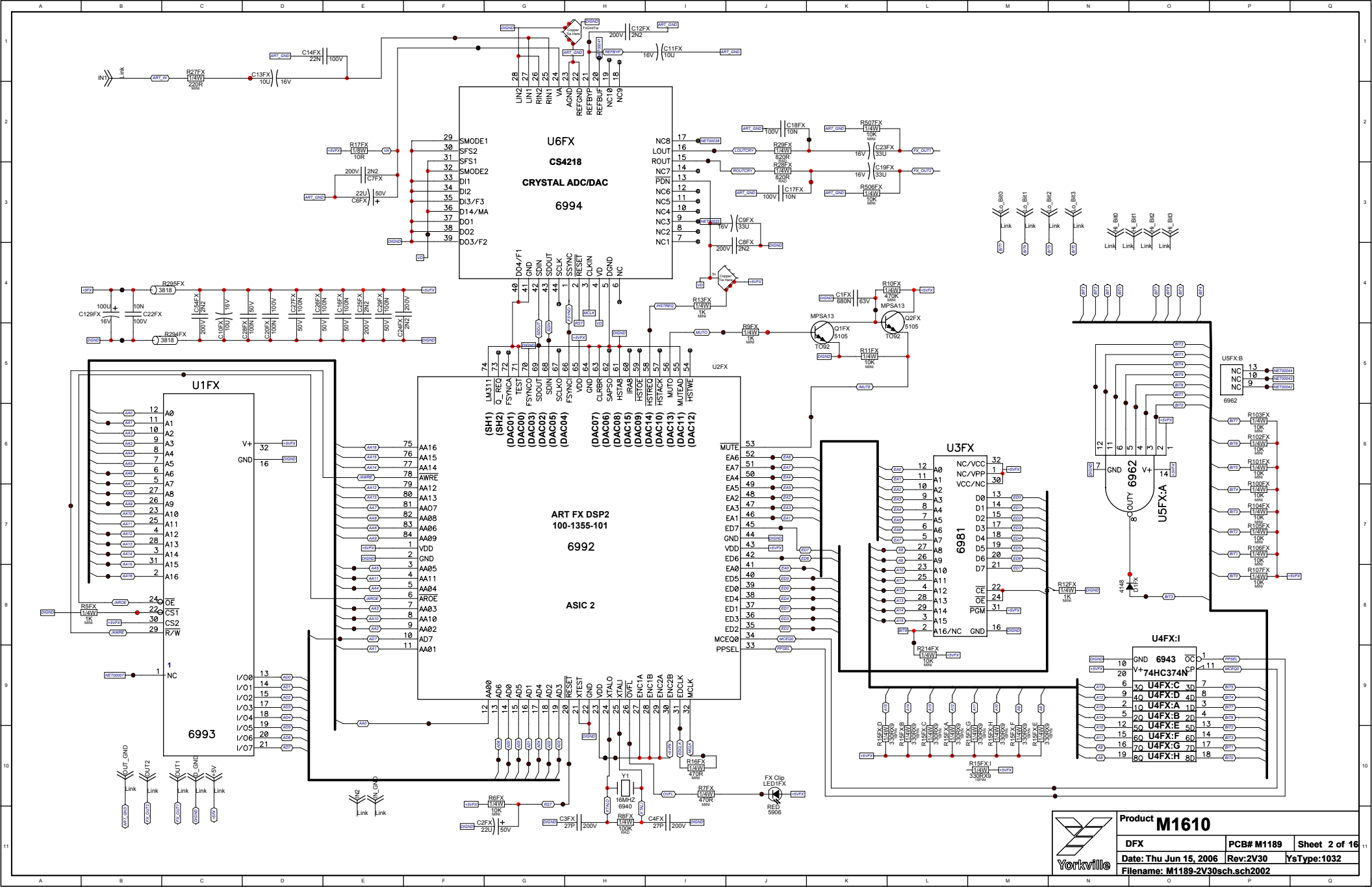
Yorkville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CRYSTAL ADC/DAC
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6981
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U4FX:I
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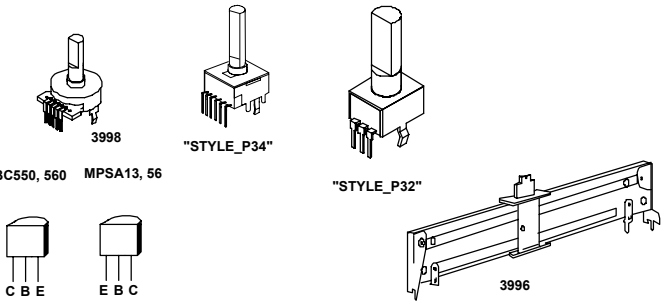
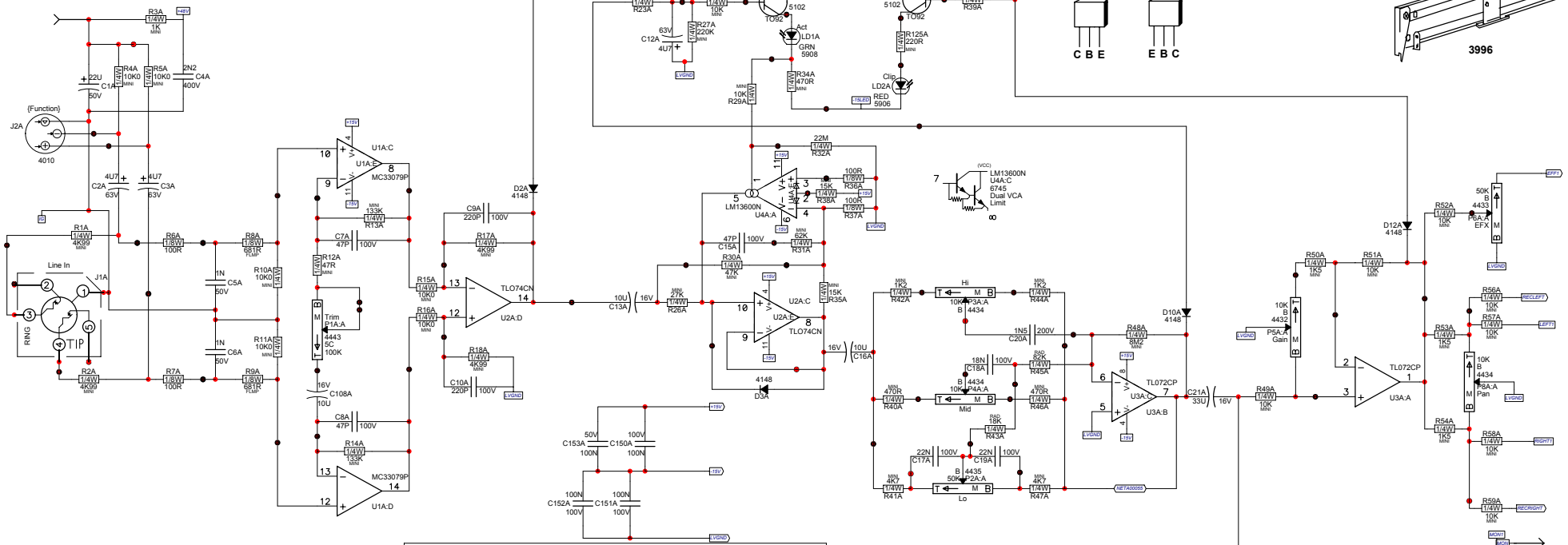
Sheet 2 of 16
Date: Thu Jun 15, 2006
Rev:2V30
YsType:1032
Filename: M1189-2V30sch.sch2002
Yorkville

Only Channel 1 is shown.
Channels 1 - 4 employ the same circuit.





M1189 POTLIST

MODEL(S):- M1610

REF	FUNCTION	PART#	KNOB	{NEW}
P25-34 L&R	Graphic EQ	3998	N/A	S04
P1A,1B,1C,1D,1E,1F	Trim	4443	9915	P32
P9G,9H	Mon Send	4443	9917	P32
P5A,5B,5C,5D,5E,5F	Level	4432	9920	P32
P15G,15H,6A,6B,6C,6D,6E,6F	FX Send	4433	9918	P32
P7A,7B,7C,7D,7E,7F	Mon Send	4433	9917	P32
P3A-F,4A-F	Hi, Mid	4434	9916	P32
P16G,16H, 8A-F	Bal, Pan	4434	9919	P32
P2A,2B,2C,2D,2E,2F	Lo	4435	9916	P32
P35,36,37,38	Master Treble, Bass	4435	9916	P32
P17,20	Master, FX2 Main	4437	9920	P34
P21,23	Rec Out	4437	9920	P34
P13G,13H,14G,14H	Stereo Hi, Mid	4438	9916	P34
P12G,12H	Stereo Lo	4439	9916	P34
P11FX,12FX	FX Select, Modify	4581	8398	P23
P23	Tape/CD	4437	9915	P34
P18,19	Monitor, FX2 Mon	4433	9917	P34
R	F	P	K	P32
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N

M1189 HISTORY

MODEL(S):- M810/M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	31 Dec, 2003	v1.00p3	Moved D3 anode to cathode of LD1
2	2 Feb, 2004	1.00	Change break mute flash rate
3	17 Feb, 2004	1.01	Move C7a-f, R13a-f to make room for AA series xlr.
4	D	V	Change hole sizes for AA series xlr.
5	D	V	Changed U1FX SRAM to 32kX8
6	24 Feb, 2004	1.02	Changed 3925 XLRs to 4010 AA series
7	7-APR-2004	2.00	PC#6675 Moved C150(A,C,E) to avoid hitting ICs
8	D	V	Removed routing from board - slots done on drill now
9	15-APR-2004	2.00	PC#6677 Chg X41 to C3(220n 50V), set gerber
10	D	V	so TIE4 gets output properly
11	D	V	PC#6679 Chg. C21(A,B,C,D,E,F) from 470nF to 33uF
12	6-MAY-2004	2.00	PC#6686 MOVED C23FX AWAY FROM SPACER
13	Aug 4, 2004	2.00	Fixed silk screen on U6FX and U2FX
1	AUG-16-2004	2.10	PC#6718 CHANGE R140 TO 10K0 (6116),
2	D	V	R138&R139 TO 9K09 (6112)
3	NOV-23-2004	.	PC#6771:#3571->#3507 SKT FOR #6993 SRAM (GT)
4	JAN-05-2005	.	GT:PC#6792:P17 FROM 50KB #4441 TO 20KA #4447
5	21 Apr, 2005	2.11	Updated 3921 jacks for clinch.
6	4 Aug 2005	2.20	AH, PC#6816, ADD A HOLE FOR FEEDING GROUND WIRE
7	D	V	N
8	14 JUN 2006	2.30	AH, PC#7091, UPDTAE #5322 CHANGE DRILL SIZE TO 40
9	.	.	PC#6989, STRENTHEN RCA JACK SECTION BREAKAWAY
10	.	.	#4581 UPDATED, PROPER DRILLING ORDER
11	D	V	N
12	D	V	N
13	D	V	N

M1189 DRILL HISTORY

MODEL(S):- M810/M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	24-FEB-2004	V01	N
2	21-APR-2005	V02	N
3	4-AUG-2005	V03	PC#6818, ADDING A HOLE FOR FEEDING GREEN GND
4	D	V	N
5	D	V	N
6	D	V	N

M1189 PENDING CHANGES

MODEL(S):- M1610

#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

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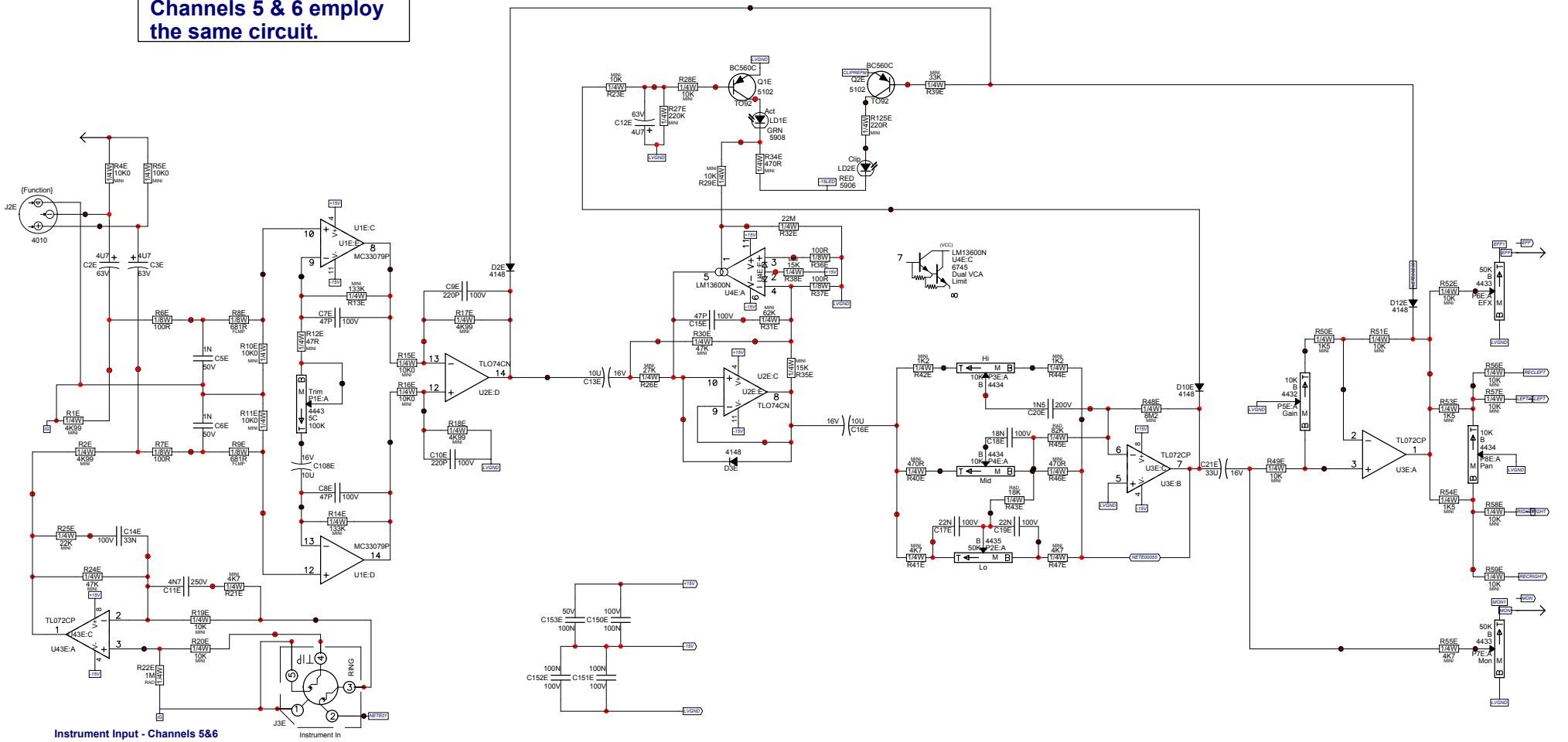
Product **M1610**

Mono Ch1	PCB# M1189	Sheet 3 of 16
Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
Filename: M1189-2V30sch.sch2002		

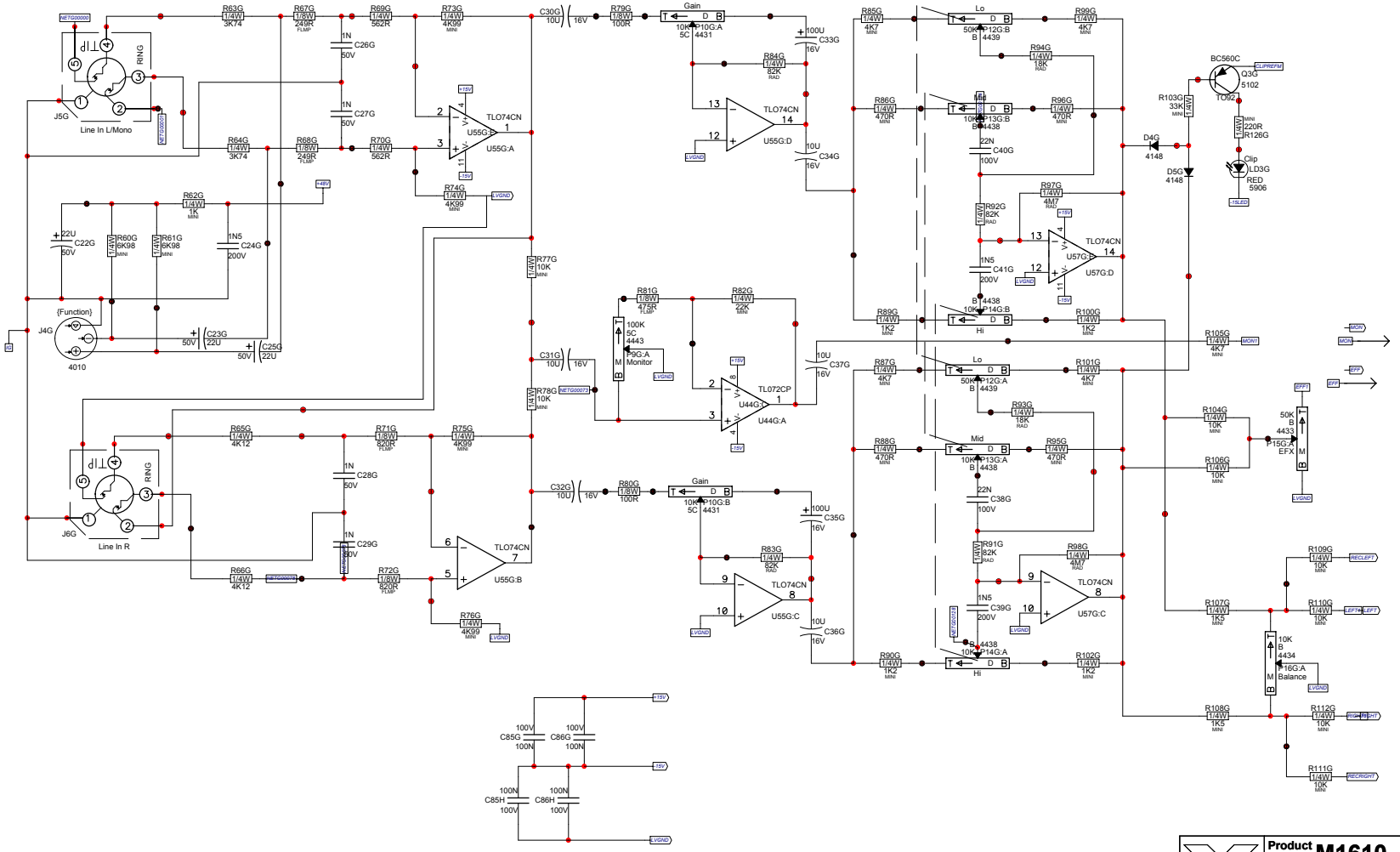
Only Channel 5 is shown.
Channels 5 & 6 employ the same circuit.



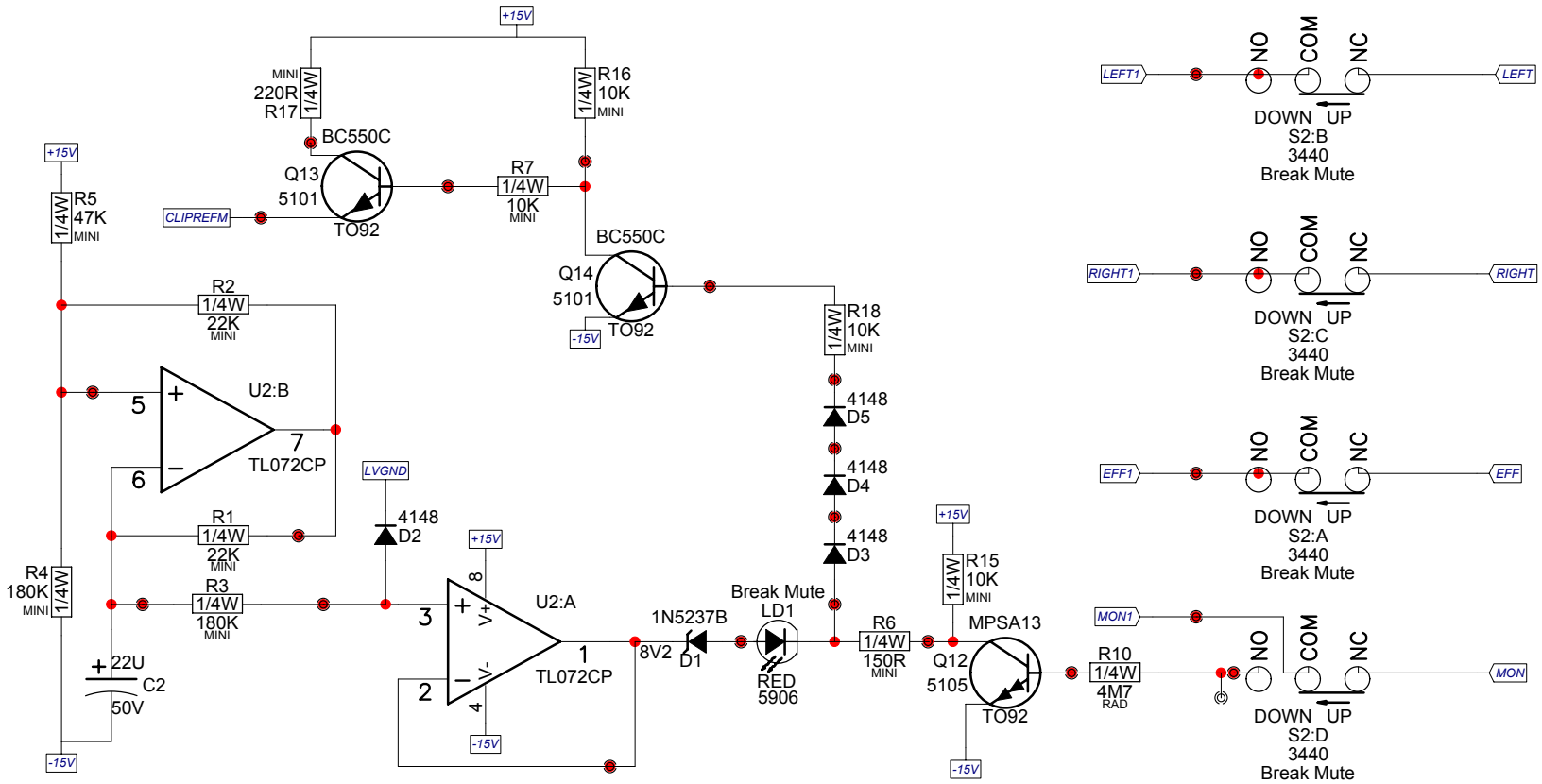
Instrument Input - Channels 5&6

Yorkville	Product **M1610**		
	Mono Ch5	PCB# M1189	Sheet 7 of 16
	Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
	Filename: M1189-2V30sch.sch2002		

Only channels 7&8 are shown.
Channels 9&10 employ
the same circuit.



Yorkville	Product **M1610**		
	Stereo Ch7	PCB# M1189	Sheet 9 of 16
	Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
	Filename: M1189-2V30sch.sch2002		



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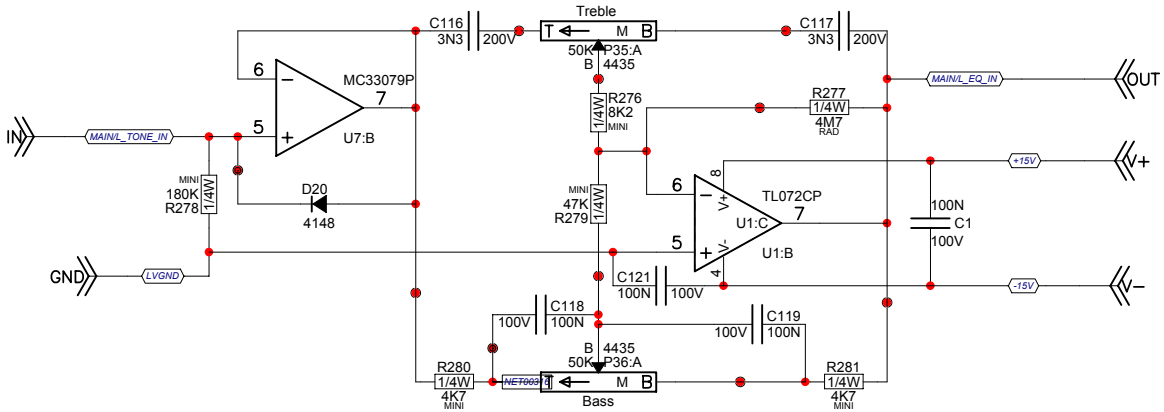
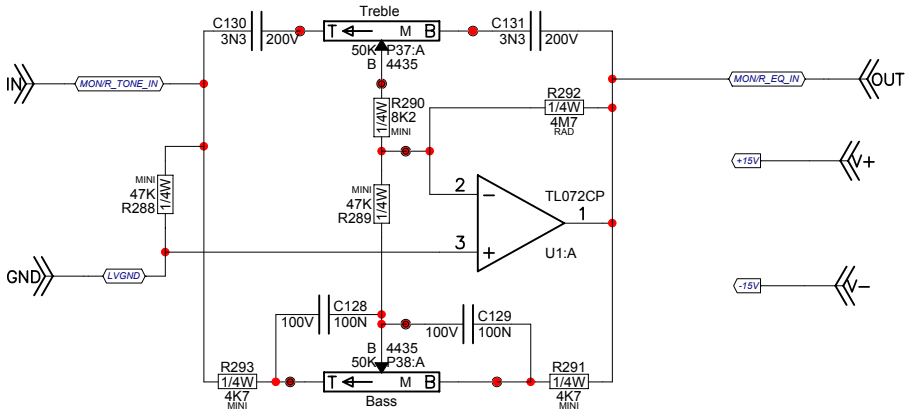
Product **M1610**		
BreakMute	PCB# M1189	Sheet 11 of 16
Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
Filename: M1189-2V30sch.sch2002		



Yorkville	Product **M1610**		
	TONE1	PCB# M1189	Sheet 13 of 16
	Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
	Filename: M1189-2V30sch.sch2002		



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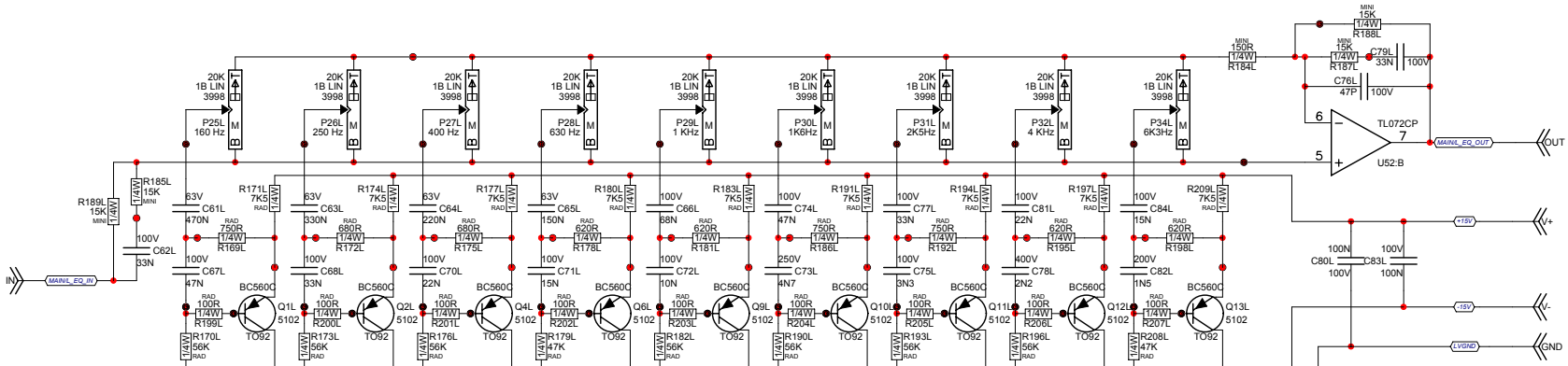
Product **M1610**

TONE2	PCB# M1189	Sheet 14 of 16
Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
Filename: M1189-2V30sch.sch2002		



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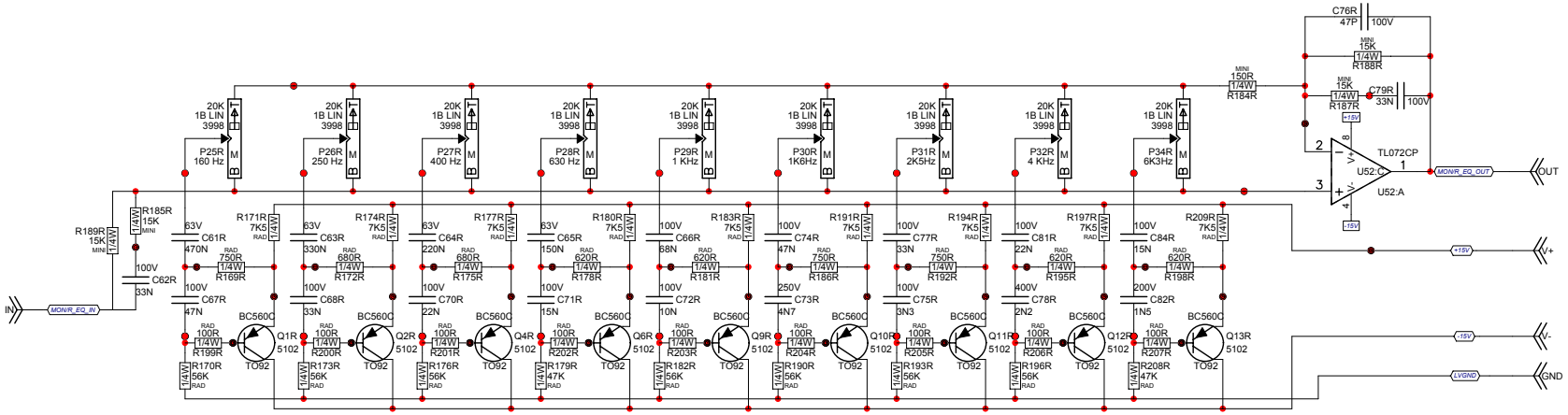
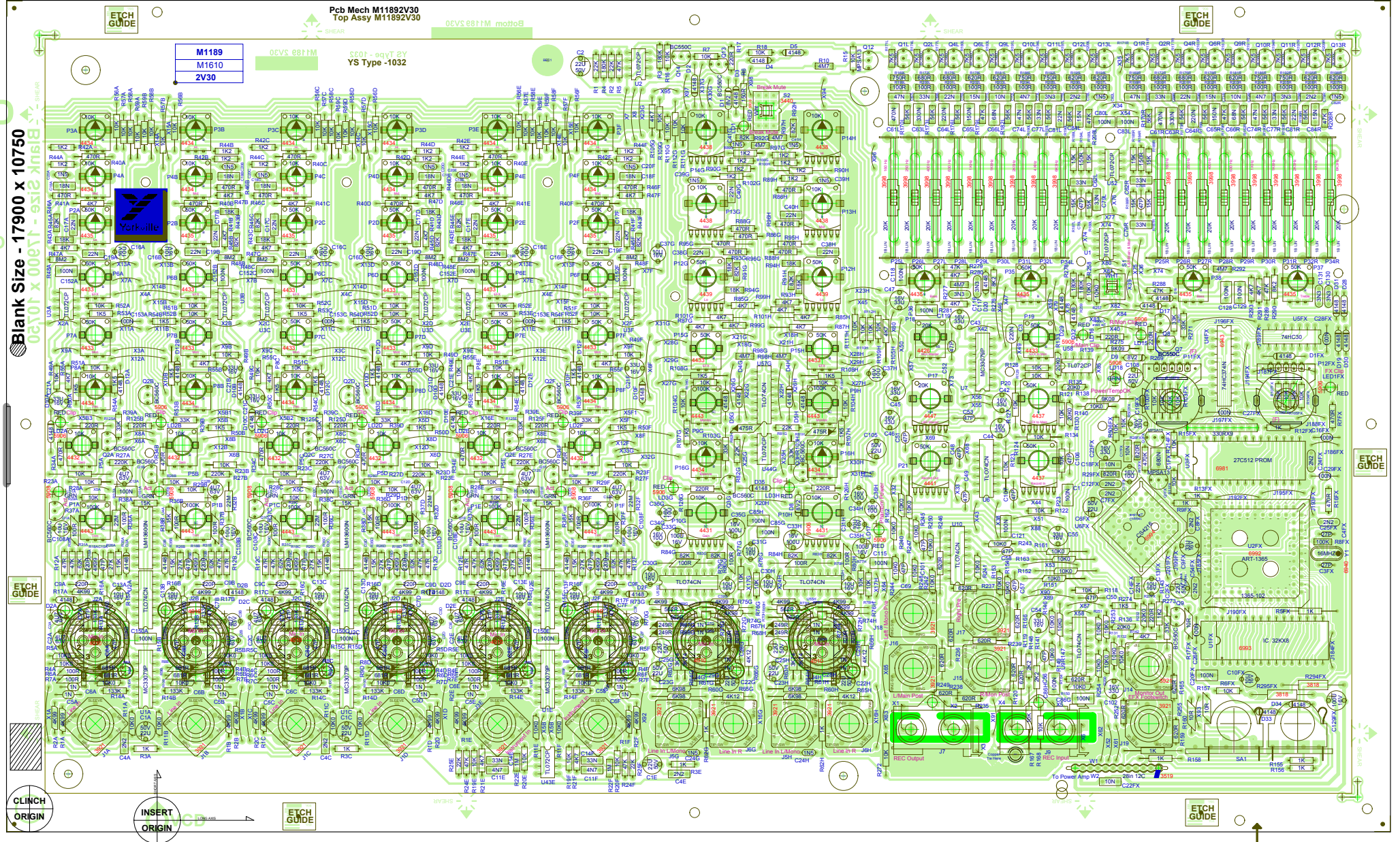
Product M1610		
EQ1	PCB# M1189	Sheet 15 of 16
Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
Filename: M1189-2V30sch.sch2002		



Yorkville	Product **M1610**	
EQ2	PCB# M1189	Sheet 16 of 16
Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
Filename: M1189-2V30sch.sch2002		


Pcb Mech M11892V30
Top Assy M11892V30
M1189
M1610
2V30
YS Type -1032
Blank Size - 17900 x 10750
ETCH GUIDE
CLINCH ORIGIN
INSERT ORIGIN
SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

M1189 HISTORY

MODEL(S):- M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	31 Dec, 2003	v1.00p3	Moved D3 anode to cathode of LD1
2	2 Feb, 2004	1.00	Change break mute flash rate
3	17 Feb, 2004	1.01	Move C7a-f, R13a-f to make room for AA series xlr.
4	.	.	Change hole sizes for AA series xlr.
5	.	.	Changed U1FX SRAM to 32kX8
6	24 Feb, 2004	1.02	Changed 3925 XLRs to 4010 AA series
7	7-APR-2004	2.00	PC#6675 Moved C150(A,C,E) to avoid hitting ICs
8			Removed routing from board - slots done on drill now
9	15-APR-2004	2.00	PC#6677 Chg X41 to C3(220n 50V), set gerber
10			so TIE4 gets output properly
11			PC#6679 Chg. C21(A,B,C,D,E,F) from 470nF to 33uF
12	6-MAY-2004	2.00	PC#6686 MOVED C23FX AWAY FROM SPACER
13	Aug 4, 2004	2.00	Fixed silk screen on U6FX and U2FX
1	AUG-16-2004	2.10	PC#6718 CHANGE R140 TO 10K0 (6116),
2	D	V	R138&R139 TO 9K09 (6112)
3	NOV-23-2004	.	PC#6771:#3571->#3507 SKT FOR #6993 SRAM (GT)
4	JAN-05-2005	.	GT:PC#6792:P17 FROM 50KB #4441 TO 20KA #4447
5	21 Apr, 2005	2.11	Updated 3921 jacks for clinch.
6	4 Aug 2005	2.20	AH, PC#6816, ADD A HOLE FOR FEEDING GREEN
7	.	.	GROUND WIRE.
8	14 JUN 2006	2.30	AH, PC#7091, UPDTAE #5322 CHANGE DRILL SIZE TO 40
9	.	.	PC#6989, STRENTHEN RCA JACK SECTION BREAKAWAY
10	.	.	#4581 UPDATED, PROPER DRILLING ORDER
11	D	V	N
12	D	V	N
13	D	V	N

M1189 POTLIST

MODEL(S):- M1610

REF	FUNCTION	PART#	KNOB	{NEW}
P25-34 L&R	Graphic EQ	3998	N/A	N
P1A,1B,1C,1D,1E,1F	Trim	4443	9915	N
P9G,9H	Mon Send	4443	9917	N
P5A,5B,5C,5D,5E,5F	Level	4432	9920	N
P15G,15H,6A,6B,6C,6D,6E,6F	FX Send	4433	9918	N
P7A,7B,7C,7D,7E,7F	Mon Send	4433	9917	N
P3A-F,4A-F	Hi, Mid	4434	9916	N
P16G,16H, 8A-F	Bal, Pan	4434	9919	N
P2A,2B,2C,2D,2E,2F	Lo	4435	9916	N
P35,36,37,38	Master Treble, Bass	4435	9916	N
P17,20	Master, Rec Out	4441	9920	N
P21	FX2 Main	4437	9920	N
P13G,13H,14G,14H	Stereo Hi, Mid	4438	9916	N
P12G,12H	Stereo Lo	4439	9916	N
P11FX,12FX	FX Select, Modify	4581	8398	N
P23	Tape/CD	4437	9915	N
P18	Monitor	4441	9917	N
P19	FX2 Mon	4433	9917	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N

M1189 DRILL HISTORY

MODEL(S):- M810/M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	24-FEB-2004	V01	N
2	21-APR-2005	V02	N
3	4-AUG-2005	V03	N
4	D	V	N
5	D	V	N
6	D	V	N

M1189 PENDING CHANGES

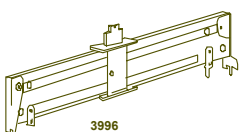
MODEL(S):- M1610

#	PC#	PENDING CHANGE
1	PC	UPDATE R15FX FOR CLINCH -> DEAL WITH CLEARANCES
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

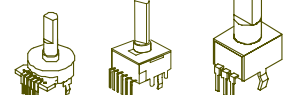
*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

PRODUCTION NOTES

1. Stuff 1 M1191 pcb here.
2. U3FX & U1FX - Mount 28 pin IC sockets to the RIGHT side of the 32 holes.



3996

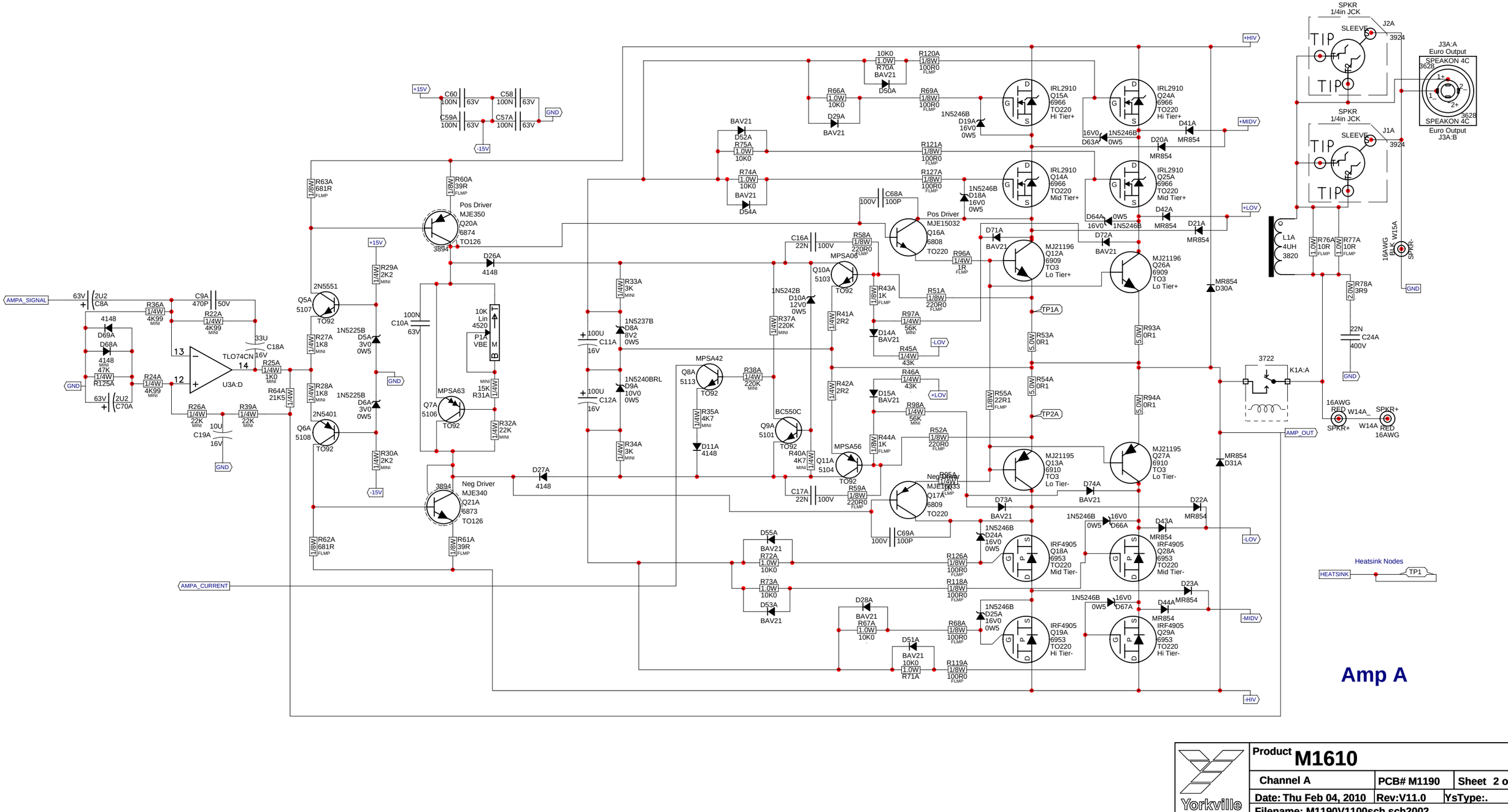


"STYLE_P23" "STYLE_P34" "STYLE_P32"

MPSA13, 56 BC550, 560

E B C C B E

Product	**M1610**	
AmpIn	**PCB# M1190**	**Sheet 1 of 4**
Date: Thu Feb 04, 2010	**Rev:V11.0**	**YsType:.**
Filename: M1190V1100sch.sch2002		



Amp A

Product **M1610**			
Channel A	PCB# M1190	Sheet 2 of 4	
Date: Thu Feb 04, 2010	Rev:V11.0	YsType:.	
Filename: M1190V1100sch.sch2002			

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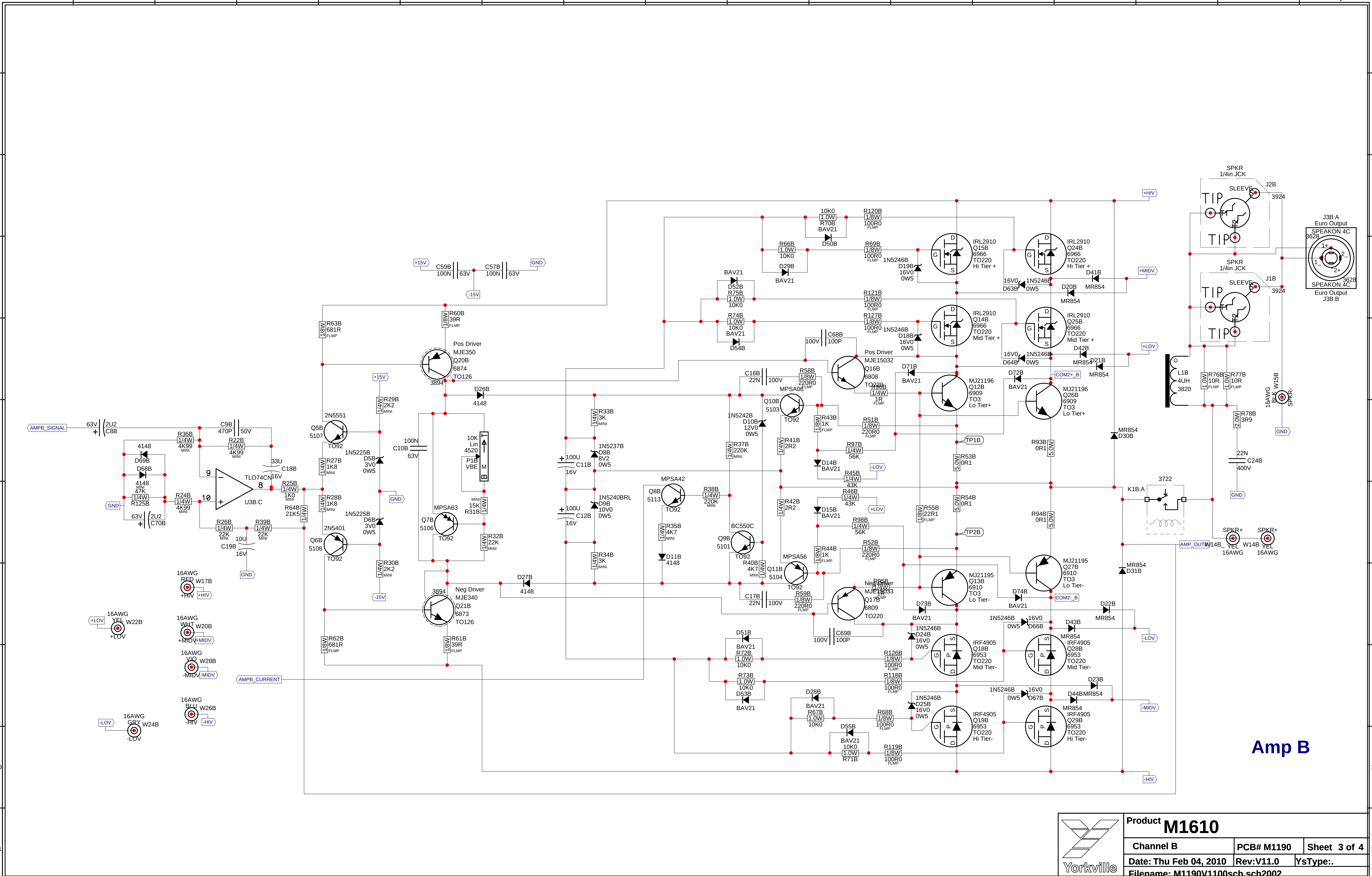


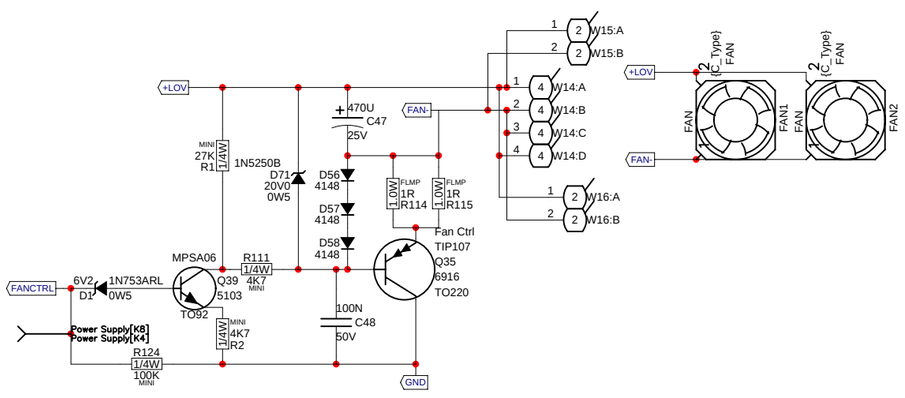
Amp B
AMPB_SIGNAL
AMPB_CURRENT
AMP_OUT
TLO74CN
U3B:C
Pos Driver
MJE350
Q20B
6874
TO126
Neg Driver
MJE340
Q21B
6873
TO126
Pos Driver
MJE15032
Q16B
6808
TO220
Neg Driver
MJE15033
Q17B
6809
TO220
IRL2910
Q15B
6966
TO220
Hi Tier +
IRL2910
Q24B
Hi Tier +
IRL2910
Q14B
Mid Tier +
IRL2910
Q25B
Mid Tier +
MJ21196
Q12B
6909
TO3
Lo Tier+
MJ21196
Q26B
Lo Tier+
MJ21195
Q13B
6910
TO3
Lo Tier-
MJ21195
Q27B
Lo Tier-
IRF4905
Q18B
6953
TO220
Mid Tier-
IRF4905
Q28B
Mid Tier-
IRF4905
Q19B
Hi Tier-
IRF4905
Q29B
Hi Tier-
SPKR
1/4in JCK
J2B
J1B
SLEEVE
TIP
J3B:A
Euro Output
SPEAKON 4C
J3B:B
L1B
4UH
3820
K1B:A
3722
+HIV
+MIDV
+LOV
-LOV
-MIDV
-HIV
GND
+15V
-15V
COM2+_B
COM2-_B
TP1B
TP2B
SPKR+
SPKR-
16AWG
Product M1610
Channel B
PCB# M1190
Sheet 3 of 4
Date: Thu Feb 04, 2010
Rev:V11.0
YsType:.
Filename: M1190V1100sch.sch2002
Yorkville

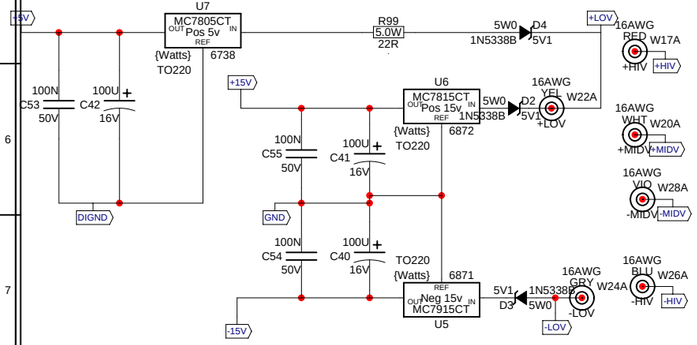
M1190.PCB_DATABASE_HISTORY

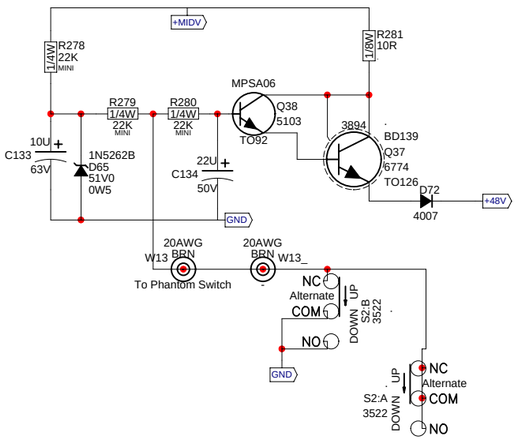
MODEL(S):- M1610

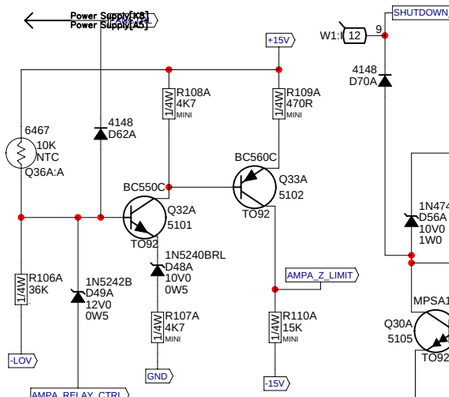
#	DATE	VER#	DESCRIPTION OF CHANGE
1	7 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	21-APR-2004	1.00	PC#6681 Modify route to let grn wire pass board near pot cap
5	6-MAY-2004	2.00	PC#6684 R83(A,B)->5K6,R5(A,B)6K8->18K,
6	D	V	D16&D17(A,B) 4148->BAT85,R47&R48(A,B)22R1->100R0
7	D	V	ADDED D71, D72
8	DEC-14-2004	3.00	GT:PC#6787: Fixed AC clearance, and W2&W3 tab label
9	FEB-07-2005	4.00	PC#6809 Remove D17,D16,D12,D13, R47,R48,R49,R50,C36
10	D	V	C15 (All A/B) R45,R46 A/B 36K->43K, D10 16V->12V
11	D	V	D9 A/B 14V->10V0, D8 A/B 12V->8V2. ADD R95 A/B
12	D	V	ADD R96 A/B, R97 A/B, R98 A/B, D71 A/B, D72 A/B
13	D	V	D73 A/B, D74 A/B, X1 ,X2 ,X3 ,X4 X5 AND X6
14	MAR-30-2005	5.00	RECREATED MASK LAYER TO FIX TESTPADS
15	MAR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
16	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
17	21 Apr, 2005	5.11	Force update parts to fix pad orientation
18	JUN-08-2005	6.00	PC#6919:GT:MOVED R95B AVOID HEATSINK COLLISION
19	.	.	XFORMER -> CH1302/E, ADDED 2x#4599,SWAPPED W34&
20	.	.	W35,R106A&B #6122 33K->#4868 36K, D56A&B #6440
21	.	.	4V7/0.5W->#6484 10V/1W, C32&C33 #5903 12000UF/35V
22	.	.	#5898 8200UF/50V, C36&C37 #5896 4700UF/80V->#5898
23	.	.	C25A&B #5224 47N/100V->#5212 100N/63V

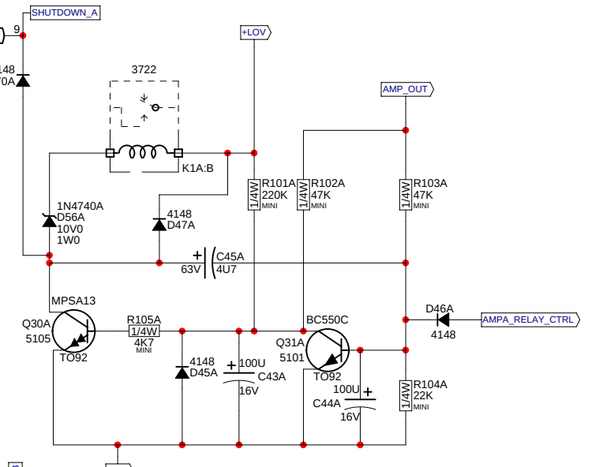
#	DATE	VER#	DESCRIPTION OF CHANGE
24	.	.	R79A&B #6127 470K->#6127 220K
25	.	.	ADDED D4 #5124 5V1/5W, R97&R98 #2006 1R/1W->#5124
26	.	.	Corrected the position of some test nodes.
27	.	.	Fixed BlankSize field
28	Jun-15-2006	7.00	AH, PC#7021, SPACE BETWEEN R96 AND R53
29	.	.	PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	2008/04/07	v8.0p0	Swap c37 with c51; c57 with c36. Moved x11b & x31b to
32	.	.	middle of HS slots. Solder updates, part updates.
33	2008/04/25	v8.00	Changed Q8a&b from 5107 to 5113 - MPSA42
34	2008/05/29	9.00	PC#7590 - PS hum fix. Moved K1B away from X15B.
35	2009/11/09	10.00	PCs 7875, 7876 - Ribbon cable change - XTR screws flipped
36	03-FEB-2010	.	PC7942,PC7980: Update #4xTO220-MTG GG
37	04-FEB-2010	11.00	PC7983: Change D2,D3,D4 #5124 span to .525 GG
38	D	V	N
39	D	V	N
40	D	V	N
41	D	V	N
42	D	V	N
43	D	V	N
44	D	V	N
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N

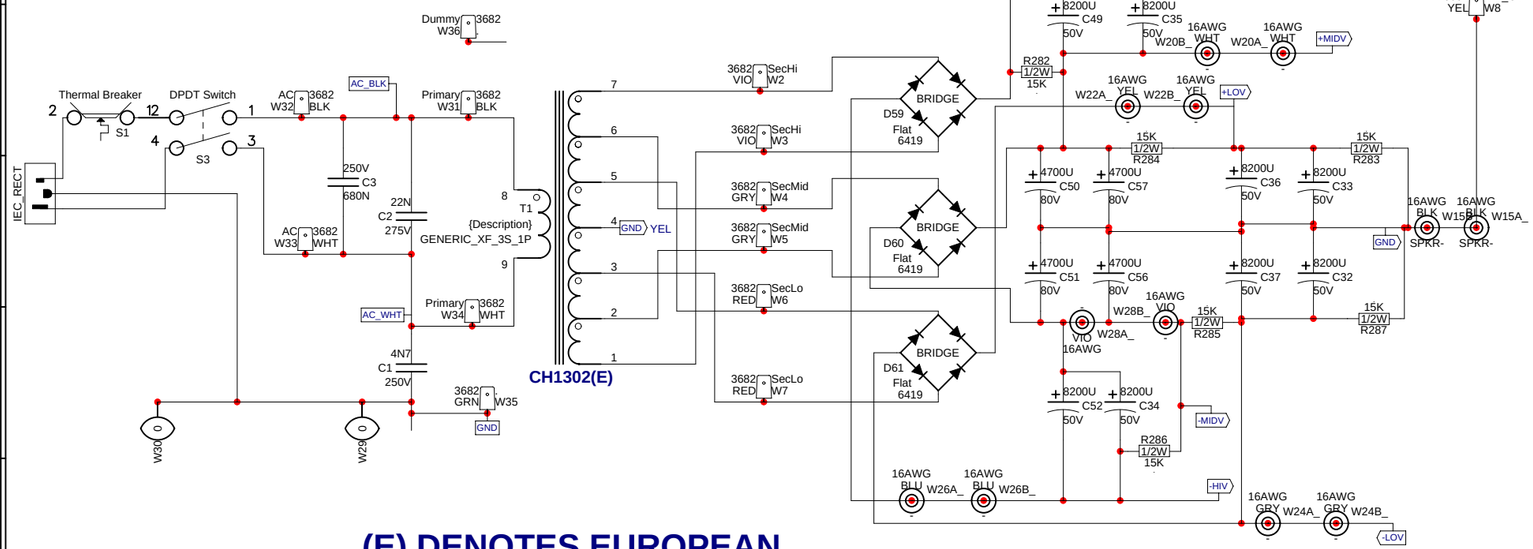


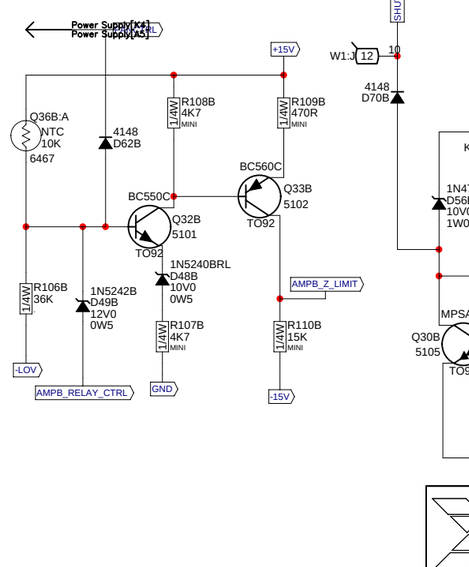


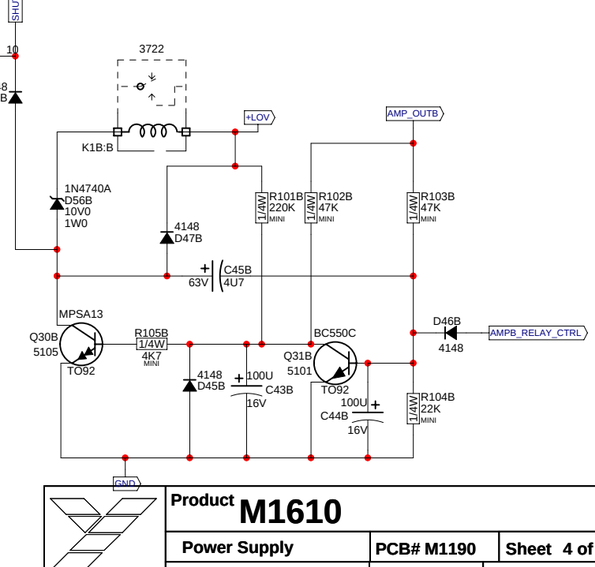












(E) DENOTES EUROPEAN

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Product M1610

Power Supply	PCB# M1190	Sheet 4 of 4
Date: Thu Feb 04, 2010	Rev:V11.0	YsType:.
Filename: M1190V1100sch.sch2002		

Pcb MechM1190V11.0
Top Assy M1190V11.0

Wave Solder →

BlankSize - 17900x10625

Heatsink covers this area

Set P1 for 8mv between TP1 and TP2

Set P1 for 8mv between TP1 and TP2

M1190 WE
M1610
V11.0

M1190 2/2
V11.0

BEC
LOC

No RTV under resistors or relays.

No RTV under resistors or relays.

SEE LAYOUT DOCUMENTATION

CL ORIGIN

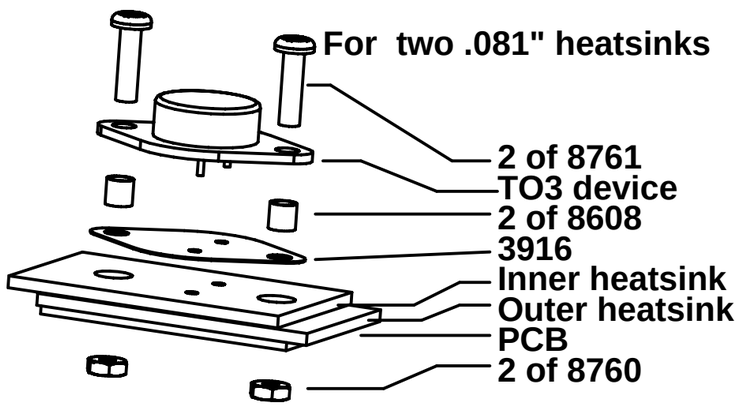
INSERT ORIGIN

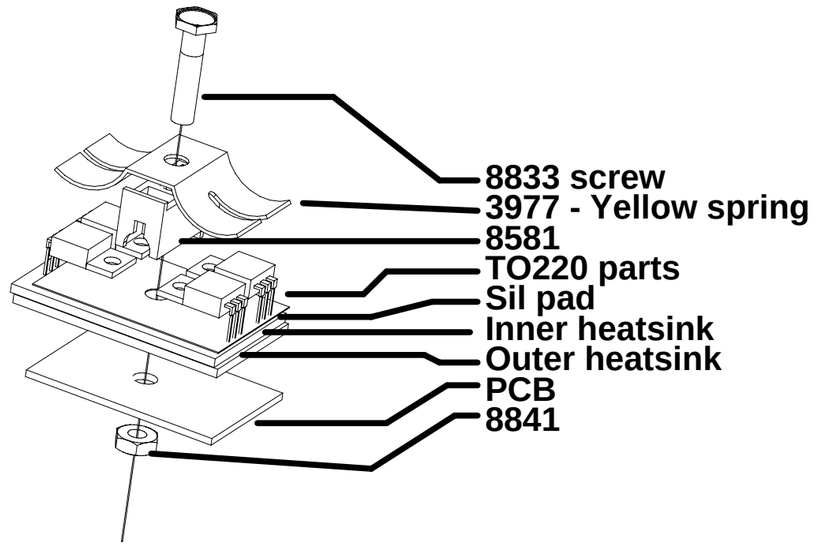
Score

SEE LAYOUT DIAGRAM

M1190 PRODUCTION NOTES

1. Use three 8832 screws to allign and attach the heatsinks to the b
2. When assembling heatsinks to Q20(A&B),Q21(A&B), Q37, ensure heatsinks are straight and sit flat against board. Add a very small of RTV between heatsink and board if necessary.
   This prevent heatsink from shorting other components.





SEE LAYOUT HISTORY

SEE PPRODUCTION NOTES

M1190.PCB_DATABASE_HISTORY

MODEL(S):- M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	7 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	21-APR-2004	1.00	PC#6681 Modify route to let grn wire pass board near pwr caps
5	6-MAY-2004	2.00	PC#6684 R83(A,B)->5K6,R5(A,B)6K8->18K,
6			D16&D17(A,B) 4148->BAT85,R47&R48(A,B)22R1->100R0
7			ADDED D71, D72
8	DEC-14-2004	3.00	GT:PC#6787: Fixed AC clearance, and W2&W3 tab label
9	FEB-07-2005	4.00	PC#6809 Remove D17,D16,D12,D13, R47,R48,R49,R50,C14
10	D	V	C15 (All A/B) R45,R46 A/B 36K->43K, D10 16V->12V
11	D	V	D9 A/B 14V->10V0, D8 A/B 12V->8V2. ADD R95 A/B
12	D	V	ADD R96 A/B, R97 A/B, R98 A/B, D71 A/B, D72 A/B
13	D	V	D73 A/B, D74 A/B, X1 ,X2 ,X3 ,X4 X5 AND X6
14	MAR-30-2005	5.00	RECREATED MASK LAYER TO FIX TESTPADS
15	MAR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
16	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
17	21 Apr, 2005	5.11	Force update parts to fix pad orientation
18	JUN-08-2005	6.00	PC#6919:GT:MOVED R95B AVOID HEATSINK COLLISION
19	.	.	XFORMER -> CH1302/E, ADDED 2x#4599,SWAPPED W8 &
20	.	.	W35,R106A&B #6122 33K->#4868 36K, D56A&B #6440
21	.	.	4V7/0.5W->#6484 10V/1W, C32&C33 #5903 12000UF/35V ->
22	.	.	#5898 8200UF/50V, C36&C37 #5896 4700UF/80V->#5898
23	.	.	C25A&B #5224 47N/100V->#5212 100N/63V
24	.	.	R79A&B #6127 470K->#6127 220K
25	.	.	ADDED D4 #5124 5V1/5W, R97&R98 #2006 1R/1W->#5124
26	.	.	Corrected the position of some test nodes.
27	.	.	Fixed BlankSize field
28	Jun-15-2006	7.00	AH, PC#7021, SPACE BETWEEN R96 AND R53
29	.	.	PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	2008/04/25	8.00	Swap c37 with c51; c57 with c36. Moved x11b & x31b to
32	.	.	middle of HS slots. Solder updates, part updates.
33	.	.	Changed Q8a&b from 5107 to 5113 - MPSA42
34	2008/05/29	9.00	PC#7590 - PS hum fix. Moved K1B away from X15B.
35	2009/11/09	10.00	PCs 7875, 7876 - Ribbon cable change - XTR screws flipp
36	03-FEB-2010	.	PC7942,PC7980: Update #4xTO220-MTG GG
37	04-FEB-2010	11.00	PC7983: Change D2,D3,D4 #5124 span to .525 GG
38	D	V	N
39	D	V	N
40	D	V	N
41	D	V	N
42	D	V	N
43	D	V	N
44	D	V	N
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N

M1190 Drill History

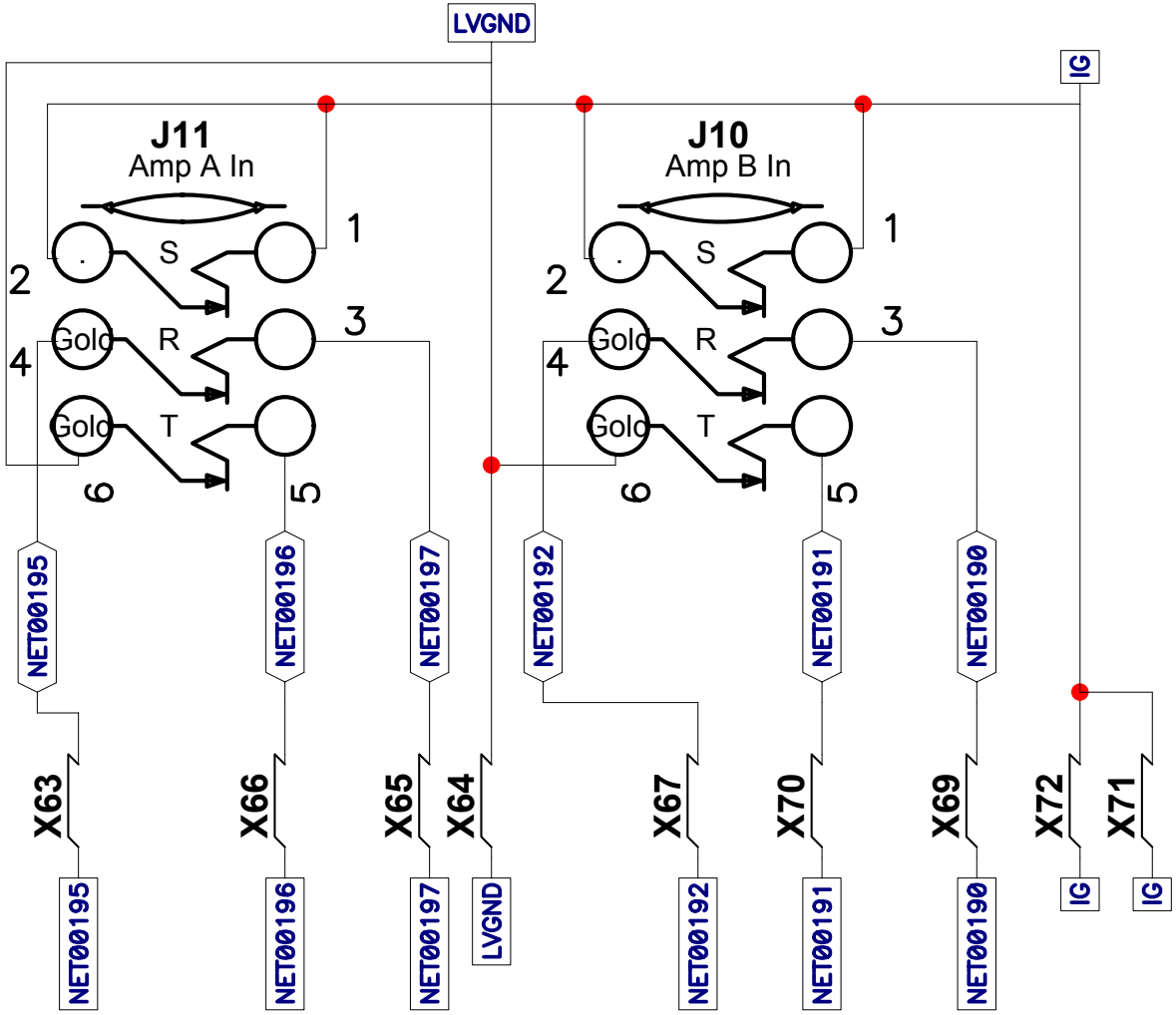
MODEL(S):- M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	5-MAY-2004	V03	Added notch to pass GRN wire from front
2	6-MAY-2004	V04	To match V2.00 changes
3	NOV-05-2004	V05	HG:PC#6730:REMOVED EXTRA ROUTING BITS
4	AUG-26-2005	V07	GT:CHANGES FOR 6V00 RELEASE. SEE HISTORY BOX
5	2008/04/25	V08	Solder updates.
6	2008/05/29	V09	PC#7590

M1190 PENDING CHANGES

MODEL(S):- M1610

#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X



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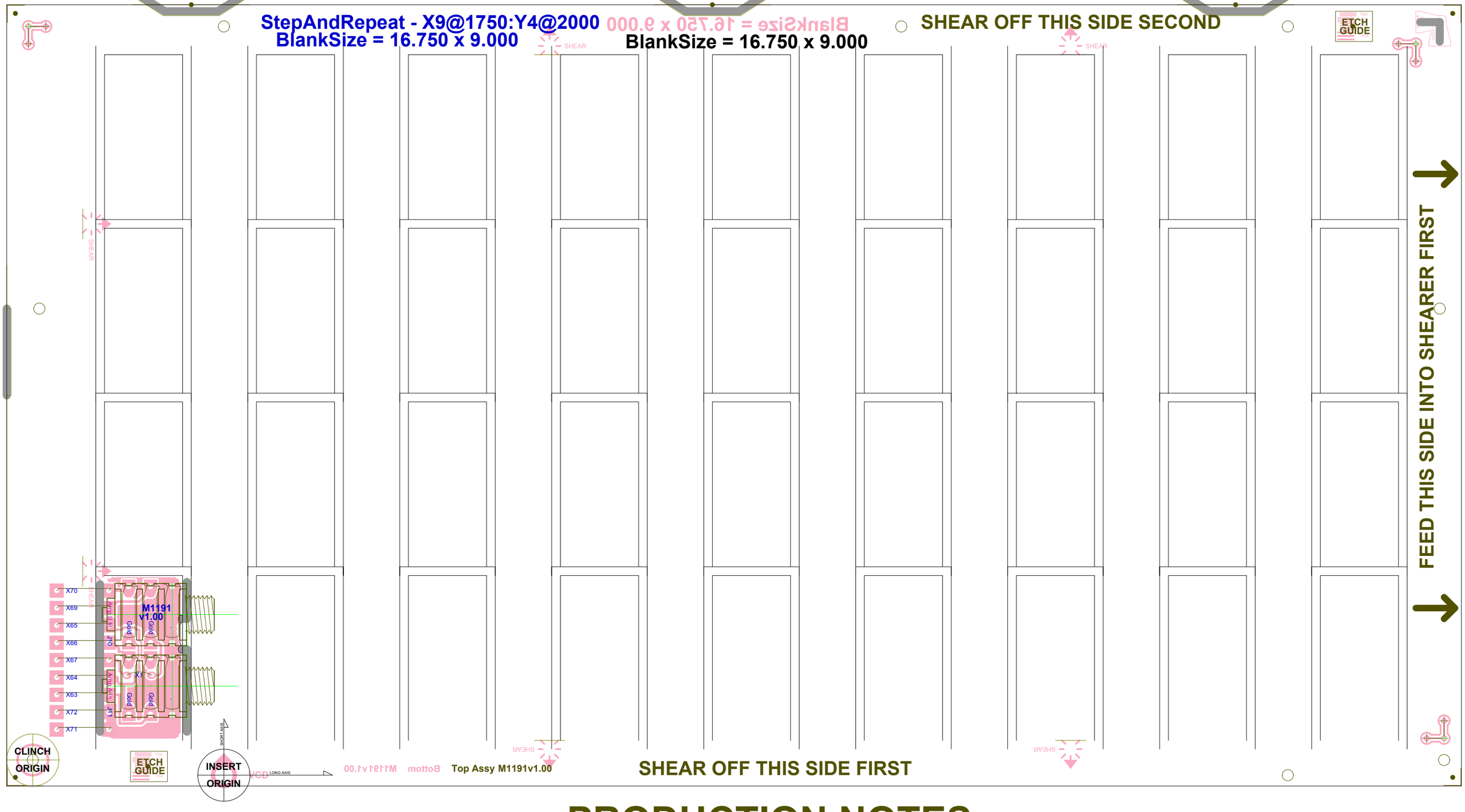
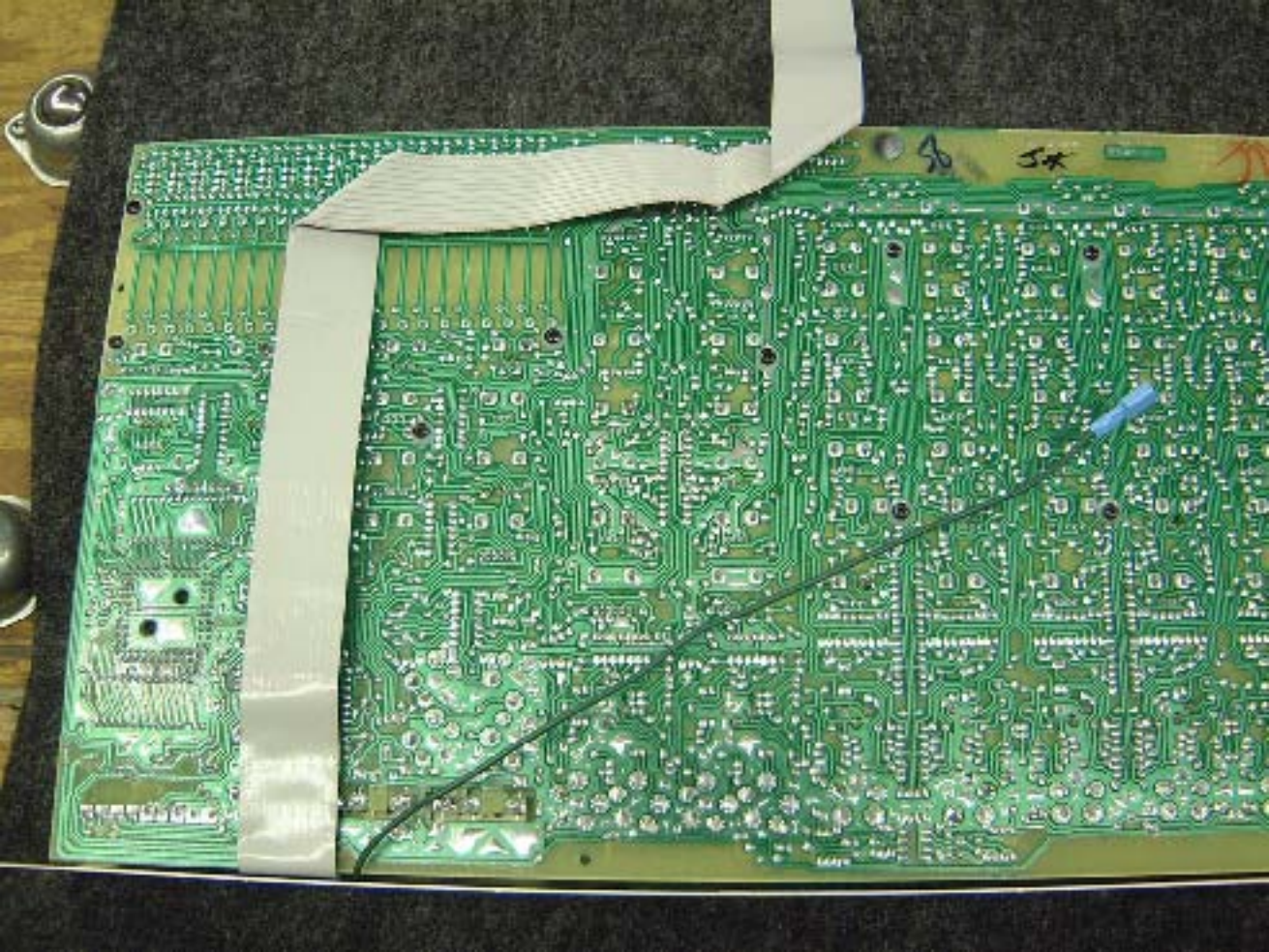
Product **M1610**

Amp in Jacks	PCB# M1191	Sheet 1 of 2
Date: Tue Feb 10, 2004	Rev:V1.00	
Filename: m1191 sch .sch2002		



PRODUCTION NOTES

1. Shear off sides containg VCD origin and VCD finger tabs (top and bottom sides) before shearing the board into rows.
2. Feed board into shearer in the direction shown.
3. DO NOT remove the strip of board attached to each set of jumpers. It will keep the jumpers straight until they arrive in wiring.



M810-2 Parts List 3/19/2010

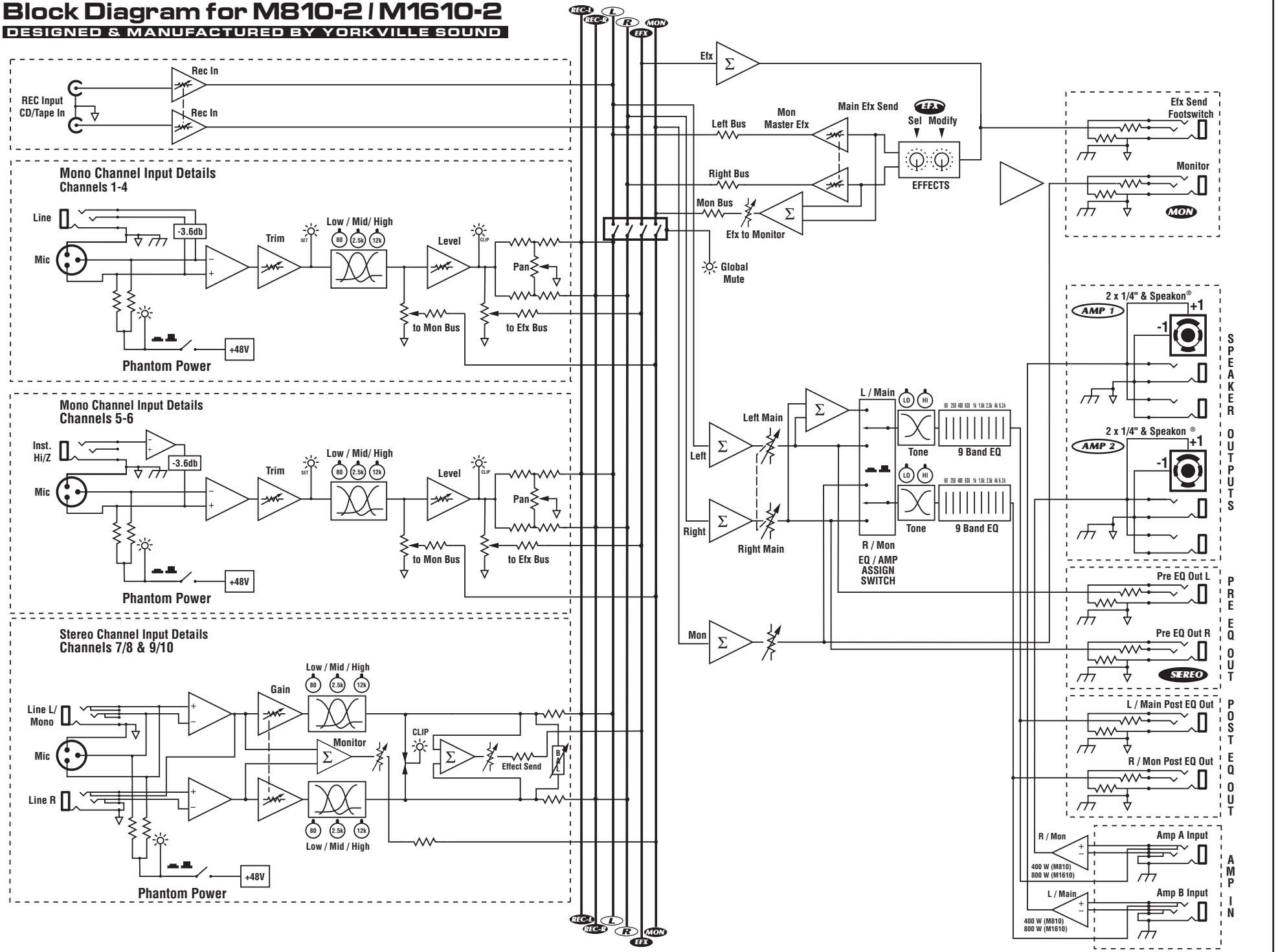
YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
5906	RED 3MM LED 1V9 20MA.4SPCER T&R	13	5898	8200U 50V 20%CAP 25X50MM ELS	4	2030	1/8W 681R 1%FLAME PROOF T&R RES	16	7693	__1N 50V 5%CAP 0805 SMT NPO	2
5908	GRN 3MM LED 1V9 20MA.4SPCER T&R	7	6578	ROT BIN 18MM 4BIT ENCODER P23	1	4924	1/4W 750R 5% .2"U T&R RES	6	7766	15P 50V 5%CAP 0603 SMT NPO	1
6419	BRIDGE 35A 400V WIRE LEAD GI3504	2	4431	_10K 5C R/A 12MM STEREO P34	2	2031	1/8W 820R 5%FLAME PROOF T&R RES	4	7781	W063 49R9 1% 0603 SMT RES	1
6425	BAV21 200V 0A25 DIODE T&R	20	4432	_10K B LIN 9MM P32	6	2033	1/8W 1K 2%FLAME PROOF T&R RES	4	7786	CD4052B IC DUAL 4CHANNEL MUX SMT	1
6438	1N4007 1000V 1A0 DIODE T&R	1	4434	_10K B LIN 9MM DETENT P32	21	4981	1/4W 1K 5%MINI T&R RES	13	7818	LM1117 REGULATOR 3V3 SOT-223	1
6825	1N4148 75V 0A45 DIODE T&R	89	4438	_10K B LIN 12MM STEREO DETENTP34	4	6110	1/4W 1K0 1%MINI MF T&R RES	2	7853	W250 100R 5% 1206 SMT RES	1
6934	MR854 400V 3A0 DIODE FASREC	12	4426	_20K 4B LIN 9MM P32	1	4585	1/4W 1K2 5%MINI T&R RES	25	7882	W063 0R 1% 1206 SMT RES	1
5124	1N5338B 5V1 5W0 ZENER 5% T&R	11	4447	_20K 15A AUD 12MM STEREO P34	1	4988	1/4W 1K5 5%MINI T&R RES	25	7912	FV-1 SPIN SEMI REVERB CHIP IC	1
6436	1N753ARL 6V2 0W5 ZENER 5% T&R	1	4433	_50K B LIN 9MM P32	15	6113	1/4W 2K 5%MINI T&R RES	4	7913	32KHZ CRYSTAL SMT 4-PIN FSRLF	1
6437	1N5237B 8V2 0W5 ZENER 5% T&R	5	4435	_50K B LIN 9MM DETENT P32	10	6104	1/4W 2K2 5%MINI T&R RES	6	7932	07 PIN 25SQ 100 PIN SMT SIL	1
6439	1N5225B 3V0 0W5 ZENER 5% T&R	4	4437	_50K B LIN 12MM STEREO P34	2	4864	1/4W 2K7 5% T&R RES	2	7933	08 PIN 25SQ 100 PIN SMT SIL	1
6450	1N5242B 12V0 0W5 ZENER 5% T&R	4	4439	_50K B LIN 12MM STEREO DETENTP34	2	6124	1/4W 3K 5%MINI T&R RES	4	7966	__2N7 100V 10%CAP 0805 SMT X7R	2
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	4	4441	_50K 4B LIN 12MM STEREO P34	1	6136	1/4W 3K3 5%MINI T&R RES	4	7934-PROG	24LC32A SER EEPROM MIX2-U3 YS DFX	1
6465	1N5250B 20V0 0W5 ZENER 5% T&R	1	4443	100K 5C R/A 9MM P32	8	4814	1/4W 3K6 5% T&R RES	1	7935-PROG	24LC32A SER EEPROM MIX2-U4 YS DFX	1
6475	1N5262B 51V0 0W5 ZENER 5% T&R	1	3998	_20K 1B LIN 20MM DETENT S04	18	5028	1/4W 3K74 1% T&R RES	4	3663	SNAP IEC PWR SOC W/.250TAB FOR .060	1
6484	1N4740A 10V0 1W0 ZENER 5% T&R	2	4520	_10K TRIM POT	2	4850	1/4W 3K9 5% T&R RES	2	2335	NYLON STANDOFF NUT #4 500MIL	9
6738	MC7805CT TO220 P 5V0 REG 36V	1	2408	_8.00 AMP CIRCUIT BREAKER	1	4774	1/4W 4K12 1% T&R RES	4	2342	NYLON STANDOFF NUT #4 530MIL BLK	6
6824	1N5246B 16V0 0W5 ZENER 5% T&R	8	3820	___4UH COIL 14AWG ZOBEL HORIZONTAL	2	4681	1.0W 4K7 5% T&R RES	8	8657	6-32 X 3/8" HEX SPACER ALUMINUM	7
6871	MC7915CT TO220 N 15V0 REG V2	1	8497	M1610/M810 GABLE	2	4943	1/4W 4K7 5% .2"U T&R RES	2	8482	3/8 1D FLAT WASHER	16
6872	MC7815CT TO220 P 15V0 REG V1	1	3489	CLIP 250X032 18-22AWG DISCO/INSL	1	4982	1/4W 4K7 5%MINI T&R RES	49	8818	3/4 OD X 3/8 ID X .080 THICK WASHER	2
5101	BC550C TO92 NPN TRAN T&R TB	17	3490	CLIP 250X032 14-16AWG DISCO/INSL	11	6128	1/4W 4K99 1%MINI MF T&R RES	42	8485	#6 SPLIT WASHER ZINC	2
5102	BC560C TO92 PNP TRAN T&R TB	38	3601	RING TERMINAL 16AWG WIRE & #8 SCREW	1	6121	1/4W 6K98 1%MINI MF T&R RES	4	3524	NYLON SH/WASHER ID385 OD750 T060	4
5103	MPSA06 TO92 NPN TRAN T&R TA	4	3450	1/4" JCK PCB MT ALL-GOLD SKT	2	4926	1/4W 7K5 5% .2"U T&R RES	18	3577	FIBER WASHER .625OD .380ID .03	4
5104	MPSA56 TO92 PNP TRAN T&R TA	2	3921	1/4" JCK PCB MT VERT STER RT SWT	16	4990	1/4W 8K2 5%MINI T&R RES	2	3440	4PDT MINI VERT ALT SWITCH	1
5105	MPSA13 TO92 NPN DARL T&R TA	3	3924	1/4" JCK PCB MT VERT 2XTIP HICURNT	4	4983	1/4W 10K 5%MINI T&R RES	96	3522	DPDT MINI PC VERT SNP ALT	2
5106	MPSA63 TO92 PNP DARL T&R TA	2	3466	RCA DUAL PCB MT VERT GOLD 24MM	2	6116	1/4W 10K0 1%MINI MF T&R RES	80	3587	DPDT ROKR SW QUIK 250"AC/PWR ON-OFF	1
5107	2N5551 TO92 NPN TRAN T&R TA	4	3628	SPKON 4C PCB MT VERT 250TAB GRY #4	2	4630	1/2W 15K 5% T&R RES	4	3682	250 MALE PCB TAB REEL	11
5108	2N5401 TO92 PNP TRAN T&R TA	4	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	8	4979	1/4W 15K 5%MINI T&R RES	28	3029	PATCH 12 22AWG 16.0 XH	1
6774	BD139 TO126 NPN TRAN TG	1	3451	EYELET SMALL 0.089 OD PLATED	43	4954	1/4W 18K 5% .2"U T&R RES	12	CH1301	M810 POWER TRFMR T'RD	1
6805	2SD2560 TO3P NPN TRAN DARL	4	3856	FAN 80MM X 80MM 39CFM 12VDC 200MA	2	6125	1/4W 18K 5%MINI T&R RES	2			
6812	2SB1647 TO3P PNP TRAN DARL	4	3894	AAVID 5972-B H/S W/TAB B.O.	5	6123	1/4W 20K0 1%MINI MF T&R RES	5			
6873	MJE340 TO126 NPN TRAN TG	2	3501	B52200F006 COMP WASH #4 SMALL	5	4777	1/4W 21K5 1% T&R RES	2			
6874	MJE350 TO126 PNP TRAN TG	2	3719	DUAL XSISTOR SPRING, ZINC CLEAR	4	6118	1/4W 22K 5%MINI T&R RES	19			
6916	TIP107 TO220 PNP TRAN DARL TE	1	3977	QUAD XSISTOR SPRING, ZINC YELLOW	3	4833	1/4W 27K 5% T&R RES	4			
6953	IRF4905 TO220 PCH MFET	4	8889	RUBBER GROMMET #2183-034-BLK	1	6129	1/4W 27K 5%MINI T&R RES	7			
6966	IRL2910 NCH MFET 100V TN	4	3801	5/8" BUMPER BUTTON BLACK	1	6122	1/4W 33K 5%MINI T&R RES	13			
6745	LM13600N IC XCONDUCTANCE AMP	4	3810	4" NYLON CABLE TIE	8	4868	1/4W 36K 5% T&R RES	2			
6804	MC33079P IC QUAD OP AMP	4	2329	12 CIR XH-HEADER 0.098IN	2	4853	1/4W 39K 5% T&R RES	4			
6882	TL072CP IC FET DUAL OP AMP	15	4056	2 CIR XH-HEADER 0.098IN	2	4927	1/4W 47K 5% .2"U T&R RES	4			
6889	TL074CN IC QUAD O/A T.I ONLY	11	8397	KNOB STYLE 2 GREY	1	6119	1/4W 47K 5%MINI T&R RES	26			
6467	_10K 10% THERMISTOR TO-92 NTC	2	8632	KNOB ROUND PUSHBUTTON 1/4" GREY	2	4928	1/4W 56K 5% .2"U T&R RES	14			
5199	100P 100V 2%CAP T&R RAD CER.2NPO	8	8637	ROUND PUSH BUTTON 1/4" BLK 24MM	1	6139	1/4W 62K 5%MINI T&R RES	6			
5408	_47P 100V 10%CAP T&R BEAD NPO	33	9915	KNOB 0-DEG RED SOFT GRAY RIB	2	4586	1/4W 82K 5%MINI T&R RES	4			
5412	220P 100V 10%CAP T&R BEAD NPO	14	9916	KNOB 0-DEG GRY SOFT GRAY RIB	29	4929	1/4W 82K 5% .2"U T&R RES	14			
5208	__2N2 400V 5%CAP T&R RAD .2FLM	5	9917	KNOB 0-DEG GRN SOFT GRAY RIB	9	6120	1/4W 100K 5%MINI T&R RES	1			
5273	__1N5 200V 5%CAP T&R RAD CER.2NPO	16	9918	KNOB 0-DEG BLU SOFT GRAY RIB	10	4991	1/4W 133K 1%MINI T&R RES	12			
5275	__3N3 100V 5%CAP T&R RAD .2FLM	6	9919	KNOB 0-DEG YEL SOFT GRAY RIB	8	4796	1/4W 180K 5%MINI T&R RES	4			
5416	470P 50V 10%CAP T&R BEAD NPO	6	9920	KNOB 0-DEG WHT SOFT GRAY RIB	9	6126	1/4W 220K 5%MINI T&R RES	14			
5422	__1N 50V 10%CAP T&R BEAD NPO	20	9921	KNOB 0-DEG GRY W/O COVERING	6	6127	1/4W 470K 5%MINI T&R RES	2			
5204	_10N 100V 10%CAP T&R RAD .2FLM	2	3426	8' 3/16 SJT AC LINE CORD REMOVB-CSA	1	4948	1/4W 1M 5% .2"U T&R RES	2			
5205	_15N 100V 10%CAP T&R RAD .2FLM	4	8701	4-40 KEPS NUT ZINC	5	4951	1/4W 4M7 5% .2"U T&R RES	7			
5207	_18N 100V 5%CAP T&R RAD .2FLM	6	8800	6-32 KEPS NUT ZINC	6	6132	1/4W 8M2 5%MINI T&R RES	6			
5209	__4N7 250V 5%CAP T&R RAD .2FLM	4	8841	10-32 KEPS NUT TIN PLATED	7	4809	1/4W 10M 5% T&R RES	2			
5210	_22N 100V 10%CAP T&R RAD .2FLM	26	8797	5/16-18 KEPS NUT JS500	1	4751	1/4W 22M 5% T&R RES	10			
5222	_33N 100V 10%CAP T&R RAD .2FLM	10	4022	ELASTOMER PAD - 2-TO218 / 4-TO220	7	3722	RELAY 1A 30AMP DC24 036MA PC-C	2			
5224	_47N 100V 10%CAP T&R RAD .2FLM	4	8581	CUSTOM PBL TRANSISTOR SPACER	7	9010	16GA COLD ROLLED STEEL 4'X8' SHEET	4			
5840	_22N 400V 10%CAP BLK RAD POLY FLM	2	4597	22AWG STRAN TC WIR JMP	15	9020	18GA COLD ROLLED STEEL 4'X8' SHEET	3.2			
6435	_22N 275V 20%CAP BLK 'X2' 15MM AC	1	4599	22AWG SOLID SC WIR T&R JMP	232	9070	18GA ELECTRO GALV STEEL 4'X8' SHEET	1.6			
6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC	1	4749	5.0W 0R15 5% BLK RES	8	9150	.081" 48X96 UTILITY ALUMINUM	1.45			
5212	100N 63V 5%CAP T&R RAD .2FLM	37	2006	1.0W 1R 5%FLAME PROOF T&R RES	2	9155	.081" 48X96 UTILITY ALUM SPV 1 SIDE	1.23			
5226	_68N 100V 5%CAP T&R RAD .2FLM	2	4911	1/4W 2R2 5% T&R RES	4	9250	.040" 48X96 5052H32 ALUM VINYL LAMI	2.3			
5229	150N 63V 10%CAP T&R RAD .2FLM	2	4748	2.0W 3R9 5% T&R	2	9640	.025" FISHPAPER (FLAT 48" SHEETS)	1.1			
5231	220N 63V 10%CAP T&R RAD .2FLM	2	2008	1.0W 10R 5%FLAME PROOF T&R RES	4	8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	18			
5233	330N 63V 5%CAP T&R RAD .2FLM	8	4605	1/8W 10R 5% T&R RES	3	8865	4-40 X 5/16 PAN PH MS JS500	5			
5234	470N 63V 10%CAP T&R RAD .2FLM	2	4709	5.0W 22R 5% BLK RES	1	8729	#4 X 3/8 FLAT QUAD TYPE A JS500 BLK	4			
5314	100N 50V 10%CAP T&R BEAD X7R	7	2016	1/8W 39R 2%FLAME PROOF T&R RES	4	8902	4-40 X 3/4 PAN PHIL MS B/O & WAX	15			
5318	220N 50V 10%CAP T&R BEAD X7R	1	6134	1/4W 47R 5%MINI T&R RES	6	8831	6-32 X 1/4 PAN PH TAPTITE ZN	2			
5257	__2U2 63V 20%CAP T&R RAD .2EL	12	2019	1/8W 100R0 1%FLAME PROOF T&R RES	12	8832	6-32 X 1/4 PAN PH TAPTITE JS500	24			
5258	__4U7 63V 20%CAP T&R 8X7MM .2EL	20	4602	1/8W 100R 5% T&R RES	29	8801	6-32 X 3/8 PAN PH TAPTITE JS500	4			
5266	680N 250V 20%CAP BLK 'X2' 30MM AC		4921	1/4W 100R 5% .2"U T&R RES	18	8829	6-32 X 3/8 FLAT PH TAPTITE BO#C HEA	3			
7769	__1U 50V 20%CAP 4.3X3.9 SMT ELC	5	4984	1/4W 150R 5%MINI T&R RES	3	8823	6-32 X 1 PAN PH TAPTITE JS500	3			
5260	_22U 50V 20%CAP T&R RAD .2EL	1	2023	1/8W 220R0 1%FLAME PROOF T&R RES	8	8809	10-32 X 1/4 PAN PH TAPTITE JS500	8			
5282	_10U 16V 20%CAP T&R 5X7MM .2NP	32	4977	1/4W 220R 5%MINI T&R RES	11	8833	10-32 X 7/8 IND HEX M/S BLACK OXIDE	7			
5631	_22U 50V 20%CAP T&R 6X7MM .2EL	12	2024	1/8W 249R 2%FLAME PROOF T&R RES	4	8893	10-32 X 1 FLAT PHILIPS TT JS500 BLK	10			
5945	_10U 63V 20%CAP T&R RAD .2EL	3	4980	1/4W 470R 5%MINI T&R RES	28	8733	5/16-18X2-1/2 GRD 5 HEX BOLT JS500	1			
5961	_33U 16V 20%CAP T&R RAD .2	17	2028	1/8W 475R 1%FLAME PROOF T&R RES	2	7613	100N 25V 10%CAP 0805 SMT X7R	5			
7810	_47U 16V 20%CAP 6X5.4 SMT ELE	2	4799	1/4W 562R 1% T&R RES	4	7621	0.1W 1K0 1% 0805 SMT RES	4			
5618	470U 25V 20%CAP BLK 10X15MM EL	1	4922	1/4W 620R 5% .2"U T&R RES	8	7624	0.1W 100R 1% 0805 SMT RES	1			
5879	100U 16V 20%CAP T&R 8X7MM .2EL	15	5019	1/4W 620R 5%MINI T&R RES	14	7625	0.1W 10K0 1% 0805 SMT RES	5			
5896	4700U 80V 20%CAP BLK 25X50MM ELS	4	4923	1/4W 680R 5% .2"U T&R RES	4	7634	0.1W 20K5 1% 0805 SMT RES	2			

M1610-2 Parts List 3/19/2010

YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
5906	RED 3MM LED 1V9 20MA.4SPCER T&R	13	5879	100U 16V 20%CAP T&R 8X7MM .2EL	15	4980	1/4W 470R 5%MINI T&R RES	28	8893	10-32 X 1 FLAT PHILIPS TT JS500 BLK	10
5908	GRN 3MM LED 1V9 20MA.4SPCER T&R	7	5896	4700U 80V 20%CAP BLK 25X50MM ELS	4	2028	1/8W 475R 1%FLAME PROOF T&R RES	2	8733	5/16-18X2-1/2 GRD 5 HEX BOLT JS500	1
6419	BRIDGE 35A 400V WIRE LEAD GI3504	3	5898	8200U 50V 20%CAP 25X50MM ELS	8	4799	1/4W 562R 1% T&R RES	4	7613	100N 25V 10%CAP 0805 SMT X7R	5
6425	BAV21 200V 0A25 DIODE T&R	28	6578	ROT BIN 18MM 4BIT ENCODER P23	1	4922	1/4W 620R 5% .2"U T&R RES	8	7621	0.1W 1K0 1% 0805 SMT RES	4
6438	1N4007 1000V 1A0 DIODE T&R	1	4431	_10K 5C R/A 12MM STEREO P34	2	5019	1/4W 620R 5%MINI T&R RES	14	7624	0.1W 100R 1% 0805 SMT RES	1
6825	1N4148 75V 0A45 DIODE T&R	89	4432	_10K B LIN 9MM P32	6	4923	1/4W 680R 5% .2"U T&R RES	4	7625	0.1W 10K0 1% 0805 SMT RES	5
6934	MR854 400V 3A0 DIODE FASREC	20	4434	_10K B LIN 9MM DETENT P32	21	2030	1/8W 681R 1%FLAME PROOF T&R RES	16	7634	0.1W 20K5 1% 0805 SMT RES	2
5124	1N5338B 5V1 5W0 ZENER 5% T&R	3	4438	_10K B LIN 12MM STEREO DETENTP34	4	4924	1/4W 750R 5% .2"U T&R RES	6	7693	__1N 50V 5%CAP 0805 SMT NPO	2
6436	1N753ARL 6V2 0W5 ZENER 5% T&R	1	4426	_20K 4B LIN 9MM P32	1	2031	1/8W 820R 5%FLAME PROOF T&R RES	4	7766	15P 50V 5%CAP 0603 SMT NPO	1
6437	1N5237B 8V2 0W5 ZENER 5% T&R	5	4447	_20K 15A AUD 12MM STEREO P34	1	2033	1/8W 1K 2%FLAME PROOF T&R RES	4	7781	W063 49R9 1% 0603 SMT RES	1
6439	1N5225B 3V0 0W5 ZENER 5% T&R	4	4433	_50K B LIN 9MM P32	15	4981	1/4W 1K 5%MINI T&R RES	13	7786	CD4052B IC DUAL 4CHANNEL MUX SMT	1
6450	1N5242B 12V0 0W5 ZENER 5% T&R	4	4435	_50K B LIN 9MM DETENT P32	10	6110	1/4W 1K0 1%MINI MF T&R RES	2	7818	LM1117 REGULATOR 3V3 SOT-223	1
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	4	4437	_50K B LIN 12MM STEREO P34	2	4585	1/4W 1K2 5%MINI T&R RES	21	7853	W250 100R 5% 1206 SMT RES	1
6465	1N5250B 20V0 0W5 ZENER 5% T&R	1	4439	_50K B LIN 12MM STEREO DETENTP34	2	4988	1/4W 1K5 5%MINI T&R RES	25	7882	W063 0R 1% 1206 SMT RES	1
6475	1N5262B 51V0 0W5 ZENER 5% T&R	1	4441	_50K 4B LIN 12MM STEREO P34	1	6105	1/4W 1K8 5%MINI T&R RES	4	7912	FV-1 SPIN SEMI REVERB CHIP IC	1
6484	1N4740A 10V0 1W0 ZENER 5% T&R	2	4443	100K 5C R/A 9MM P32	8	6113	1/4W 2K 5%MINI T&R RES	4	7913	32KHZ CRYSTAL SMT 4-PIN FSRLF	1
6738	MC7805CT TO220 P 5V0 REG 36V	1	3998	_20K 1B LIN 20MM DETENT S04	18	6104	1/4W 2K2 5%MINI T&R RES	6	7932	07 PIN 25SQ 100 PIN SMT SIL	1
6824	1N5246B 16V0 0W5 ZENER 5% T&R	16	4520	_10K TRIM POT	2	4864	1/4W 2K7 5% T&R RES	2	7933	08 PIN 25SQ 100 PIN SMT SIL	1
6871	MC7915CT TO220 N 15V0 REG V2	1	3606	12.00 AMP CIRCUIT BREAKER	1	6124	1/4W 3K 5%MINI T&R RES	4	7966	__2N7 100V 10%CAP 0805 SMT X7R	2
6872	MC7815CT TO220 P 15V0 REG V1	1	3820	___4UH COIL 14AWG ZOBEL HORIZONTAL	2	4814	1/4W 3K6 5% T&R RES	1	934-PROG	24LC32A SER EEPROM MIX2-U3 YS DFX	1
5101	BC550C TO92 NPN TRAN T&R TB	17	8497	M1610/M810 GABLE	2	5028	1/4W 3K74 1% T&R RES	4	935-PROG	24LC32A SER EEPROM MIX2-U4 YS DFX	1
5102	BC560C TO92 PNP TRAN T&R TB	38	3489	CLIP 250X032 18-22AWG DISCO/INSL	1	4850	1/4W 3K9 5% T&R RES	2	3663	SNAP IEC PWR SOC W/.250TAB FOR .060	1
5103	MPSA06 TO92 NPN TRAN T&R TA	4	3490	CLIP 250X032 14-16AWG DISCO/INSL	11	4774	1/4W 4K12 1% T&R RES	4	8608	NYLON SPACER .200 OD .145 ID .110 L	16
5104	MPSA56 TO92 PNP TRAN T&R TA	2	3601	RING TERMINAL 16AWG WIRE & #8 SCREW	1	4943	1/4W 4K7 5% .2"U T&R RES	2	2335	NYLON STANDOFF NUT #4 500MIL	9
5105	MPSA13 TO92 NPN DARL T&R TA	3	3450	1/4" JCK PCB MT ALL-GOLD SKT	2	4982	1/4W 4K7 5%MINI T&R RES	49	2342	NYLON STANDOFF NUT #4 530MIL BLK	6
5106	MPSA63 TO92 PNP DARL T&R TA	2	3921	1/4" JCK PCB MT VERT STER RT SWT	16	6128	1/4W 4K99 1%MINI MF T&R RES	42	8657	6-32 X 3/8" HEX SPACER ALUMINUM	7
5107	2N5551 TO92 NPN TRAN T&R TA	2	3924	1/4" JCK PCB MT VERT 2XTIP HICURNT	4	6141	1/4W 5K6 5%MINI T&R RES	4	8482	3/8 1D FLAT WASHER	21
5108	2N5401 TO92 PNP TRAN T&R TA	4	3466	RCA DUAL PCB MT VERT GOLD 24MM	2	6121	1/4W 6K98 1%MINI MF T&R RES	4	8818	3/4 OD X 3/8 ID X .080 THICK WASHER	2
5113	MPSA42 TO92 NPN TRAN T&R TA	2	3628	SPKON 4C PCB MT VERT 250TAB GRY #4	2	4926	1/4W 7K5 5% .2"U T&R RES	18	8485	#6 SPLIT WASHER ZINC	2
6774	BD139 TO126 NPN TRAN TG	1	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	8	4990	1/4W 8K2 5%MINI T&R RES	2	3524	NYLON SH/WASHER ID385 OD750 T060	4
6808	MJE15032 TO220 NPN TRAN TE	2	3451	EYELET SMALL 0.089 OD PLATED	59	4983	1/4W 10K 5%MINI T&R RES	96	3577	FIBER WASHER .625OD .380ID .03	4
6809	MJE15033 TO220 PNP TRAN TE	2	3856	FAN 80MM X 80MM 39CFM 12VDC 200MA	2	5031	1.0W 10K0 5% T&R RES	16	3440	4PDT MINI VERT ALT SWITCH	1
6873	MJE340 TO126 NPN TRAN TG	2	3894	AAVID 5972-B H/S W/TAB B.O.	5	6116	1/4W 10K0 1%MINI MF T&R RES	80	3522	DPDT MINI PC VERT SNP ALT	2
6874	MJE350 TO126 PNP TRAN TG	2	3501	B52200F006 COMP WASH #4 SMALL	3	4630	1/2W 15K 5% T&R RES	6	3587	DPDT ROKR SW QUIK 250"AC/PWR ON-OFF	1
6916	TIP107 TO220 PNP TRAN DARL TE	1	3977	QUAD XSISTOR SPRING, ZINC YELLOW	6	4979	1/4W 15K 5%MINI T&R RES	30	3682	250 MALE PCB TAB REEL	13
6953	IRF4905 TO220 PCH MFET	8	8889	RUBBER GROMMET #2183-034-BLK	1	4954	1/4W 18K 5% .2"U T&R RES	12	3029	PATCH 12 22AWG 16.0 XH	1
6966	IRL2910 NCH MFET 100V TN	8	3801	5/8" BUMPER BUTTON BLACK	1	6125	1/4W 18K 5%MINI T&R RES	2	H1302	M1610 POWER TRFMR T'RD	1
6909	MJ21196 TO3 NPN TRAN TH	4	3810	4" NYLON CABLE TIE	10	6123	1/4W 20K0 1%MINI MF T&R RES	5			
6910	MJ21195 TO3 PNP TRANSISTOR TH	4	2329	12 CIR XH-HEADER 0.098IN	2	4777	1/4W 21K5 1% T&R RES	2			
6745	LM13600N IC XCONDUCTANCE AMP	4	4056	2 CIR XH-HEADER 0.098IN	2	6118	1/4W 22K 5%MINI T&R RES	17			
6804	MC33079P IC QUAD OP AMP	4	8397	KNOB STYLE 2 GREY	1	6129	1/4W 27K 5%MINI T&R RES	7			
6882	TL072CP IC FET DUAL OP AMP	15	8632	KNOB ROUND PUSHBUTTON 1/4" GREY	2	6122	1/4W 33K 5%MINI T&R RES	13			
6889	TL074CN IC QUAD O/A T.I ONLY	11	8637	ROUND PUSH BUTTON 1/4" BLK 24MM	1	4868	1/4W 36K 5% T&R RES	2			
6467	_10K 10% THERMISTOR TO-92 NTC	2	9915	KNOB 0-DEG RED SOFT GRAY RIB	2	4878	1/4W 43K 5% T&R RES	4			
5199	100P 100V 2%CAP T&R RAD CER.2NPO	8	9916	KNOB 0-DEG GRY SOFT GRAY RIB	29	4927	1/4W 47K 5% .2"U T&R RES	4			
5408	_47P 100V 10%CAP T&R BEAD NPO	33	9917	KNOB 0-DEG GRN SOFT GRAY RIB	9	6119	1/4W 47K 5%MINI T&R RES	26			
5412	220P 100V 10%CAP T&R BEAD NPO	14	9918	KNOB 0-DEG BLU SOFT GRAY RIB	10	4835	1/4W 56K 5% T&R RES	2			
5208	__2N2 400V 5%CAP T&R RAD .2FLM	5	9919	KNOB 0-DEG YEL SOFT GRAY RIB	8	4928	1/4W 56K 5% .2"U T&R RES	14			
5273	__1N5 200V 5%CAP T&R RAD CER.2NPO	16	9920	KNOB 0-DEG WHT SOFT GRAY RIB	9	5018	1/4W 56K 5%MINI T&R RES	2			
5275	__3N3 100V 5%CAP T&R RAD .2FLM	6	9921	KNOB 0-DEG GRY W/O COVERING	6	6139	1/4W 62K 5%MINI T&R RES	6			
5416	470P 50V 10%CAP T&R BEAD NPO	6	3426	8' 3/16 SJT AC LINE CORD REMOVB-CSA	1	4929	1/4W 82K 5% .2"U T&R RES	14			
5422	__1N 50V 10%CAP T&R BEAD NPO	20	8701	4-40 KEPS NUT ZINC	3	6120	1/4W 100K 5%MINI T&R RES	1			
5204	_10N 100V 10%CAP T&R RAD .2FLM	2	8760	6-32 KEPS NUT TIN PLATED	16	4991	1/4W 133K 1%MINI T&R RES	16			
5205	_15N 100V 10%CAP T&R RAD .2FLM	4	8800	6-32 KEPS NUT ZINC	13	4796	1/4W 180K 5%MINI T&R RES	4			
5207	_18N 100V 5%CAP T&R RAD .2FLM	6	8841	10-32 KEPS NUT TIN PLATED	6	6126	1/4W 220K 5%MINI T&R RES	14			
5209	__4N7 250V 5%CAP T&R RAD .2FLM	4	8797	5/16-18 KEPS NUT JS500	1	6127	1/4W 470K 5%MINI T&R RES	2			
5210	_22N 100V 10%CAP T&R RAD .2FLM	26	3916	TO3 SIL-PAD REPLACES MICA	8	4948	1/4W 1M 5% .2"U T&R RES	2			
5222	_33N 100V 10%CAP T&R RAD .2FLM	10	4022	ELASTOMER PAD - 2-TO218 / 4-TO220	6	4951	1/4W 4M7 5% .2"U T&R RES	7			
5224	_47N 100V 10%CAP T&R RAD .2FLM	4	8581	CUSTOM PBL TRANSISTOR SPACER	6	6132	1/4W 8M2 5%MINI T&R RES	6			
5840	_22N 400V 10%CAP BLK RAD POLY FLM	2	4597	22AWG STRAN TC WIR JMP	15	4809	1/4W 10M 5% T&R RES	2			
6435	_22N 275V 20%CAP BLK 'X2' 15MM AC	1	4599	22AWG SOLID SC WIR T&R JMP	232	4751	1/4W 22M 5% T&R RES	10			
6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC	1	5299	24AWG SOLID SC WIR RAD JMP	1	3722	RELAY 1A 30AMP DC24 036MA PC-C	2			
5212	100N 63V 5%CAP T&R RAD .2FLM	37	4745	5.0W 0R1 5% BLK RES	8	9010	16GA COLD ROLLED STEEL 4'X8' SHEET	4			
5226	_68N 100V 5%CAP T&R RAD .2FLM	2	2006	1.0W 1R 5%FLAME PROOF T&R RES	2	9020	18GA COLD ROLLED STEEL 4'X8' SHEET	3.2			
5229	150N 63V 10%CAP T&R RAD .2FLM	2	2007	1/4W 1R 5%FLAME PROOF T&R RES	4	9070	18GA ELECTRO GALV STEEL 4'X8' SHEET	1.6			
5231	220N 63V 10%CAP T&R RAD .2FLM	2	4911	1/4W 2R2 5% T&R RES	4	9155	.081" 48X96 UTILITY ALUM SPV 1 SIDE	2.51			
5233	330N 63V 5%CAP T&R RAD .2FLM	8	4748	2.0W 3R9 5% T&R	2	9250	.040" 48X96 5052H32 ALUM VINYL LAMI	2.3			
5234	470N 63V 10%CAP T&R RAD .2FLM	2	2008	1.0W 10R 5%FLAME PROOF T&R RES	4	9640	.025" FISHPAPER (FLAT 48" SHEETS)	1.1			
5314	100N 50V 10%CAP T&R BEAD X7R	7	4605	1/8W 10R 5% T&R RES	3	8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	18			
5318	220N 50V 10%CAP T&R BEAD X7R	1	4709	5.0W 22R 5% BLK RES	1	8865	4-40 X 5/16 PAN PH MS JS500	3			
5257	__2U2 63V 20%CAP T&R RAD .2EL	12	2013	1/8W 22R1 1%FLAME PROOF T&R RES	2	8729	#4 X 3/8 FLAT QUAD TYPE A JS500 BLK	4			
5258	__4U7 63V 20%CAP T&R 8X7MM .2EL	20	2016	1/8W 39R 2%FLAME PROOF T&R RES	4	8902	4-40 X 3/4 PAN PHIL MS B/O & WAX	15			
7769	__1U 50V 20%CAP 4.3X3.9 SMT ELC	5	6134	1/4W 47R 5%MINI T&R RES	6	8831	6-32 X 1/4 PAN PH TAPTITE ZN	2			
5260	_22U 50V 20%CAP T&R RAD .2EL	1	2019	1/8W 100R0 1%FLAME PROOF T&R RES	20	8832	6-32 X 1/4 PAN PH TAPTITE JS500	24			
5282	_10U 16V 20%CAP T&R 5X7MM .2NP	32	4602	1/8W 100R 5% T&R RES	29	8801	6-32 X 3/8 PAN PH TAPTITE JS500	4			
5631	_22U 50V 20%CAP T&R 6X7MM .2EL	12	4921	1/4W 100R 5% .2"U T&R RES	18	8829	6-32 X 3/8 FLAT PH TAPTITE BO#C HEA	3			
5945	_10U 63V 20%CAP T&R RAD .2EL	3	4984	1/4W 150R 5%MINI T&R RES	3	8761	6-32 X 1/2 PAN PHIL MS ZINC CLEAR	16			
5961	_33U 16V 20%CAP T&R RAD .2	17	2023	1/8W 220R0 1%FLAME PROOF T&R RES	8	8823	6-32 X 1 PAN PH TAPTITE JS500	3			
7810	_47U 16V 20%CAP 6X5.4 SMT ELE	2	4977	1/4W 220R 5%MINI T&R RES	11	8809	10-32 X 1/4 PAN PH TAPTITE JS500	8			
5618	470U 25V 20%CAP BLK 10X15MM EL	1	2024	1/8W 249R 2%FLAME PROOF T&R RES	4	8833	10-32 X 7/8 IND HEX M/S BLACK OXIDE	6			

Block Diagram for M810-2 / M1610-2

DESIGNED & MANUFACTURED BY YORKVILLE SOUND



BLOCK-DIAG-m810-m1610-SERIES-2-00-2v0.ai

Record Out
50K 4B P21:B 4441
C49 47P 100V
RECLEFT
C46 33U 16V
TLO74CN U6:D
U6:C
C45 33U 16V
RECRIGHT
TLO74CN U6:E
47P 100V C48
4B 4441 50K P21:A
Record Out

C107 100V 47P
R122 1/4W 10K MINI
100N C115 100V
LEFT R123 1/4W 10K MINI
TLO74CN U6:A
U6:B
RIGHT R124 1/4W 10K MINI
TLO74CN
MINI 10K 1/4W R121
100V 47P C106
MINI 10K 1/4W R272 +48V
Phantom Power
LD17 RED 5906
50K B 4437 P23:B Record In
Record In P23:A 4437 B 50K
C55 33U 16V
MINI 2K2 1/4W R148
PCB MT {Details} GOLD 24MM
REC Input
J9
#3466
C54 33U 16V
R141 1/4W 2K2 MINI
MINI 10K 1/4W R168
R274 1/4W 1K5 MINI +15V
Power/TempOK
LD18 GRN 5908
BC550C Q9 5101 TO92
MINI 33K 1/4W R273
D33 4148 AMP_CLIP_B
D34 4148 AMP_CLIP_A
CLIPREF
CLIPREFM
D35 4148
C105 22U 50V
0W5 8V2 D8 1N5237B
LED_SUPPLY
Copper Tie Here

J10 LINE_IN
J11 LINE_IN
X86 X70 X72 X100 X71 X101 X66 X9 X99 X67
R159 1K MINI R158 1K MINI R156 1K MINI R155 1K MINI
R160 10R 1/8W R157 10R 1/8W
ToPowerAmp

R120 1/4W 620R MINI
PCB MT {Details} GOLD 24MM
REC Output
#3466
Chassis Gnd {Color} W3 {AWG}
GND_TIE_POINT
R119 1/4W 620R MINI

C101 47P 100V
R250 1/4W 10K0 MINI
R245 1/4W 10K0 MINI
TLO74CN U10:E
U10:C
R246 1/4W 620R MINI
R247 1/4W 10K0 MINI
R248 1/4W 10K0 MINI
R249 1/4W 620R MINI
RING
Left/Mono Pre
J18

C69 47P 100V
R162 1/4W 10K0 MINI
R244 1/4W 10K0 MINI
TLO74CN U10:D
R237 1/4W 620R MINI
R240 1/4W 10K0 MINI
R242 1/4W 10K0 MINI
R239 1/4W 620R MINI
RING
Right Pre
J17

C58 47P 100V
R161 1/4W 10K0 MINI
R243 1/4W 10K0 MINI
TLO74CN U10:B
R236 1/4W 620R MINI
R163 1/4W 10K0 MINI
R241 1/4W 10K0 MINI
R238 1/4W 620R MINI
RING
L/Main Post
J16

C57 47P 100V
R151 1/4W 10K0 MINI
R154 1/4W 10K0 MINI
TLO74CN U10:A
R166 1/4W 620R MINI
R152 1/4W 10K0 MINI
R153 1/4W 10K0 MINI
R235 1/4W 620R MINI
RING
R/Mon Post
J15

C56 47P 100V
R146 1/4W 10K0 MINI
R149 1/4W 10K0 MINI
TLO74CN U9:D
R164 1/4W 620R MINI
R147 1/4W 10K0 MINI
R150 1/4W 10K0 MINI
R255 1/4W 620R MINI
RING
Monitor Out
J14

R253 1/4W 10K0 MINI
R256 1/4W 10K0 MINI
TLO74CN U9:A
R252 1/4W 620R MINI
R251 1/4W 10K0 MINI
R254 1/4W 10K0 MINI
RING
EFX Footswitch
J19

L_PRE_EQ
R_PRE_EQ
LEFT
C44 33U 16V
L&R Master
20K 15A P17:A 4447
C51 47P 100V
MC33079P U7:D
RIGHT
C42 33U 16V
L&R Master
20K 15A P17:B 4447
C53 47P 100V
MC33079P U7:A

L&R/Main & Mon
S1:A 3522 UP DOWN NC COM NO
MAIN/L_TONE_IN
MAIN_PRE_EQ
R257 10K0 MINI 1/4W
R258 10K0 MINI 1/4W
R259 180K MINI 1/4W
4148 D32
4148 D29
M5 IN Tone Controls GND TONE1 OUT
MAIN/L_EQ_IN
9 Band Graphic EQ M3
MAIN/L_EQ_OUT
4148 D30 AMP_CLIP_A
4148 D18
+15VLED
L/Main Clip
LD16 RED 5906
MINI 220R 1/4W R275
BC550C Q8 5101 TO92
MINI 33K 1/4W R271
CLIPREF+
LED+_SUPPLY
C108 22U 50V
1N5237B D9 8V2 0W5

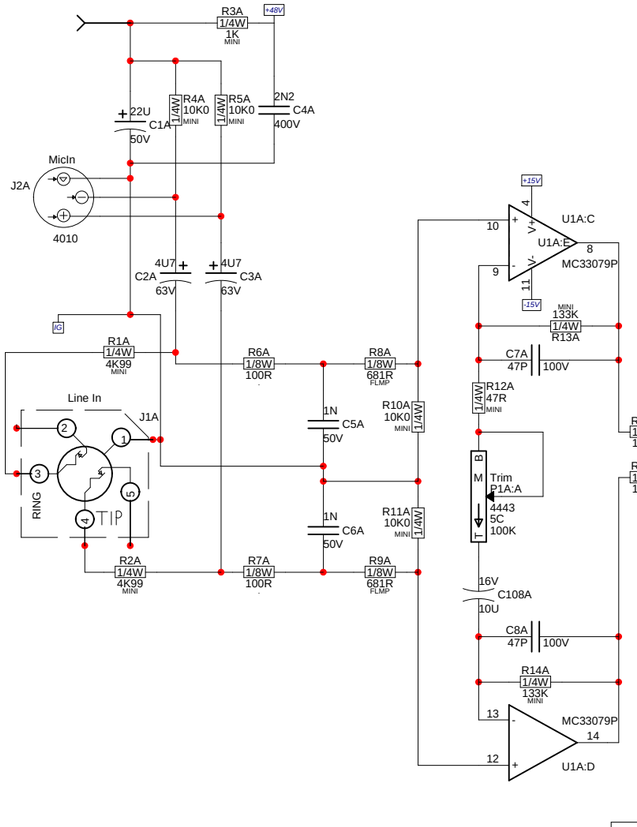
Mon Master
20K 4B P18:A 4426
C52 47P 100V
MC33079P U7:E
U7:C
MON
Stereo Ch8[Q6]
C43 33U 16V
L&R/Main & Mon
S1:B 3522 UP DOWN NC COM NO
MONR_TONE_IN
M6 IN Tone Controls GND TONE2 OUT
MONR_EQ_IN
9 Band Graphic EQ M2
MONR_EQ_OUT
D31 4148
D28 4148
D17 4148
D19 4148 AMP_CLIP_B
MINI 33K 1/4W R270
BC550C Q7 5101 TO92
+15VLED
R/Mon Clip
LD15 RED 5906
MINI 220R 1/4W R269
CLIPREF+
MON_PRE_EQ

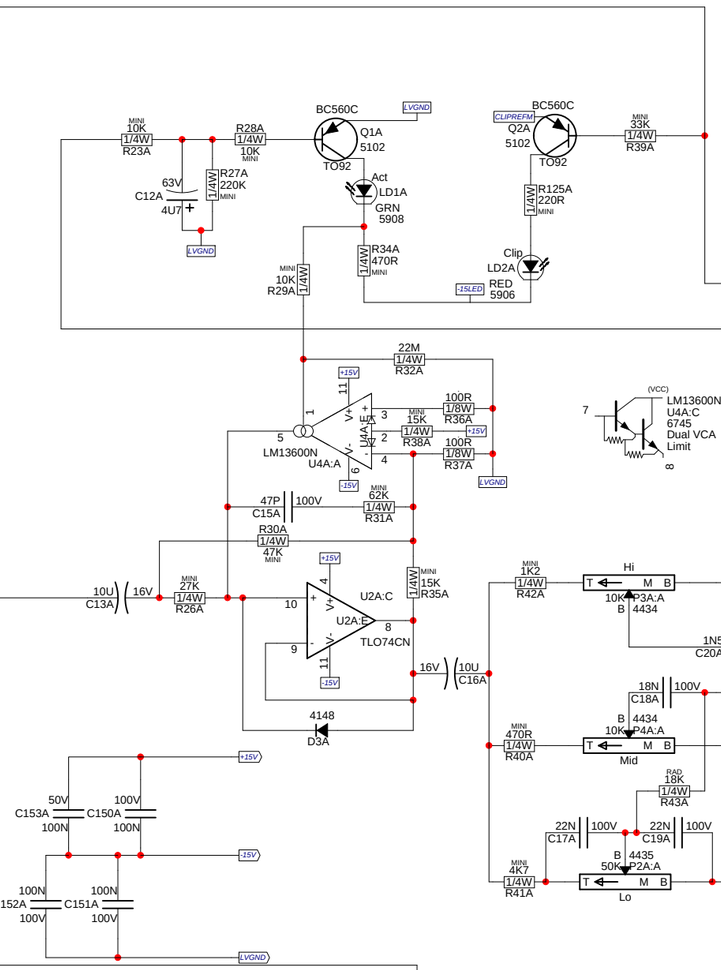
FX Select P11FX:A 6578 ROT
FX Modify P12FX:A 4434 10K B
FX Clip D1FX RED 5906
100R R7FX 1/8W
M1348 FX PCB
EE_Sel Bit0 Bit1 Bit2 Pot0 Pot1 Pot2 +v3v3
FX1:H FX1:G FX1:F FX1:E FX1:D FX1:C FX1:B FX1:A
FX1:O FX1:N FX1:M FX1:L FX1:K FX1:J FX1:I
Lout Rout GND Rin Lin Clip Vin +5FX
BIT3 BIT0 BIT1 BIT2
NET00030 NET00019
FX_OUT1 FX_OUT2 ART_GND
ART_IN

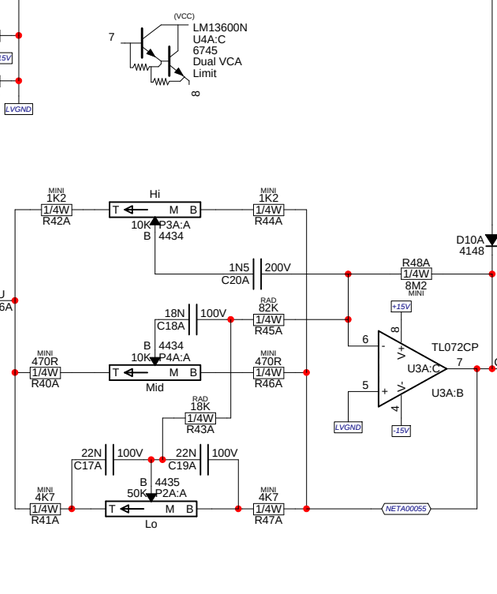
Mono Ch5[Q4]
Stereo Ch8[Q6]
EFF
C50 47P 100V
R118 10K 1/4W MINI
TLO74CN U9:C
50K B 4433 P19:A EFX to Mon
50K B 4437 P20:A EFX to Main
50K B 4437 P20:B EFX to Main
50V 220N C3
R133 1/4W 20K0 MINI
TL072CP U58:C
U58:B
R127 1/4W 10K MINI
R128 1/4W 10K MINI
R129 1/4W 10K MINI
R135 1/4W 20K0 MINI
R139 1/4W 2K7
R134 1/4W 20K0 MINI
TL072CP U58:A
R130 1/4W 10K MINI
R138 1/4W 2K7
R140 1/4W 3K6
R136 1/4W 20K0 MINI
TLO74CN U9:E
U9:B
R142 1/4W 4K7 MINI
R143 1/4W 1K2 MINI
R232 1/4W 20K0 MINI
R132 1/4W 10K0 MINI
R131 1/4W 10K0 MINI
33U C102 16V

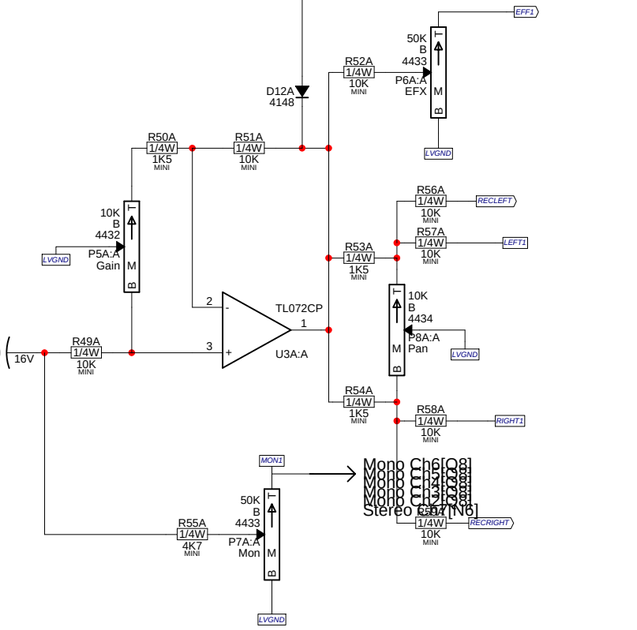
Yorkville
Product M1610
Master
PCB# M1189
Sheet 1 of 14
Date: Thu Nov 05, 2009
Rev:v6.00
YsType:1032
Filename: M1189V600sch.sch2002

Only Channel 1 is shown. Channels 1 - 4 employ the same circuit.







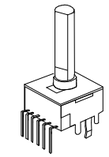


2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63

E B C
TO-92

BC550C
BC560C

C B E
TO-92



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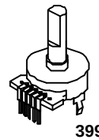
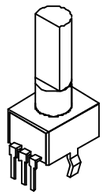


3998



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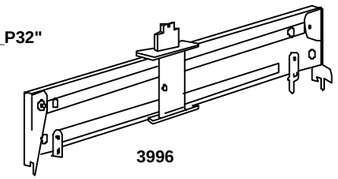

3996

M1189 POTLIST

MODEL(S):- M1610

REF	FUNCTION	PART#	KNOB	{NEW}
P25-34 L&R	Graphic EQ	3998	N/A	S04
P1A,1B,1C,1D,1E,1F	Trim	4443	9915	P32
P9G,9H	Mon Send	4443	9917	P32
P5A,5B,5C,5D,5E,5F	Level	4432	9920	P32
P15G,15H,6A,6B,6C,6D,6E,6F	FX Send	4433	9918	P32
P7A,7B,7C,7D,7E,7F	Mon Send	4433	9917	P32
P3A-F,4A-F	Hi, Mid	4434	9916	P32
P16G,16H, 8A-F	Bal, Pan	4434	9919	P32
P2A,2B,2C,2D,2E,2F	Lo	4435	9916	P32
P35,36,37,38	Master Treble, Bass	4435	9916	P32
P21	Record Out	4437	9920	P34
P20	FX2 Main	4437	9920	P34
P13G,13H,14G,14H	Stereo Hi, Mid	4438	9916	P34
P12G,12H	Stereo Lo	4439	9916	P34
P11FX	FX Select	6587	8398	P23
P23	Record In	4437	9915	P34
P18	Monitor	4426	9917	P34
P19	FX2 Mom	4433	9917	P32
P17	L&R Master	4447	9920	N
P12FX	FX Modify	4434	9918	N

M1189 HISTORY

MODEL(S):- M810/M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	31 Dec, 2003	v1.00p3	Moved D3 anode to cathode of LD1
2	2 Feb, 2004	1.00	Change break mute flash rate
3	17 Feb, 2004	1.01	Move C7a-f, R13a-f to make room for AA series xlr.
4	D	V	Change hole sizes for AA series xlr.
5	D	V	Changed U1FX SRAM to 32kX8
6	24 Feb, 2004	1.02	Changed 3925 XLRs to 4010 AA series
7	7-APR-2004	2.00	PC#6675 Moved C150(A,C,E) to avoid hitting ICs
8	D	V	Removed routing from board - slots done on drill now
9	15-APR-2004	2.00	PC#6677 Chg X41 to C3(220n 50V), set gerber
10	D	V	so TIE4 gets output properly
11	D	V	PC#6679 Chg. C21(A,B,C,D,E,F) from 470nF to 33uF
12	6-MAY-2004	2.00	PC#6686 MOVED C23FX AWAY FROM SPACER
13	Aug 4, 2004	2.00	Fixed silk screen on U6FX and U2FX
1	AUG-16-2004	2.10	PC#6718 CHANGE R140 TO 10K0 (6116),
2	D	V	R138&R139 TO 9K09 (6112)
3	NOV-23-2004	.	PC#6771:#3571->#3507 SKT FOR #6993 SRAM (GT)
4	JAN-05-2005	.	GT:PC#6792:P17 FROM 50KB #4441 TO 20KA #4447
5	21 Apr, 2005	2.11	Updated 3921 jacks for clinch.
6	4 Aug 2005	2.20	AH, PC#6816, ADD A HOLE FOR FEEDING GROUND WIRE
7	D	V	N
8	14 JUN 2006	2.30	AH, PC#7091, UPDTAE #5322 CHANGE DRILL SIZE TO .40
9	.	.	PC#6989, STRENTHEN RCA JACK SECTION BREAKAWAY
10	.	.	#4581 UPDATED, PROPER DRILLING ORDER
11	11-JAN-2008	3.00	PC#7325, FORCE UPDATE PARTS FOR NEW PAD TYPE
12	.	.	PC#7330, REMOVE EXTRA PADS FROM U1FX AND U3FX
13	2008/02/20	4.00	New DFX, solder updates, add amp in jacks, link for tie4

1	2008/03/19	5.00	Corrected Amp in jack swap.
2	2008/03/25	.	Added copper pour to encoder and pot legs. Rotated thief
3	.	.	pads on stereo channel pots.
4	2008/04/18	.	Added scoring tooling holes.
5	20080619	.	Changed XLR jacks to minimum outline.
6	2009/09/18	6.00	PC#7868 - changed to standoff nuts. Add X102.
7	2009/09/24	6.00	PC#7876 - Ribbon cable change. Modified some pads of
8	.	.	dual pots to prevent solder bridging. D1-->25mil
9	.	.	PC#7878 - Make ampin jack breakouts smaller.
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

M1189 PENDING CHANGES

MODEL(S):- M1610

#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

M1189 DRILL HISTORY

MODEL(S):- M810/M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	24-FEB-2004	V01	N
2	21-APR-2005	V02	N
3	4-AUG-2005	V03	PC#6818, ADDING A HOLE FOR FEEDING GREEN GND
4	2008/02/20	V04	N
5	2008/04/18	V05	N
6	D	V	N

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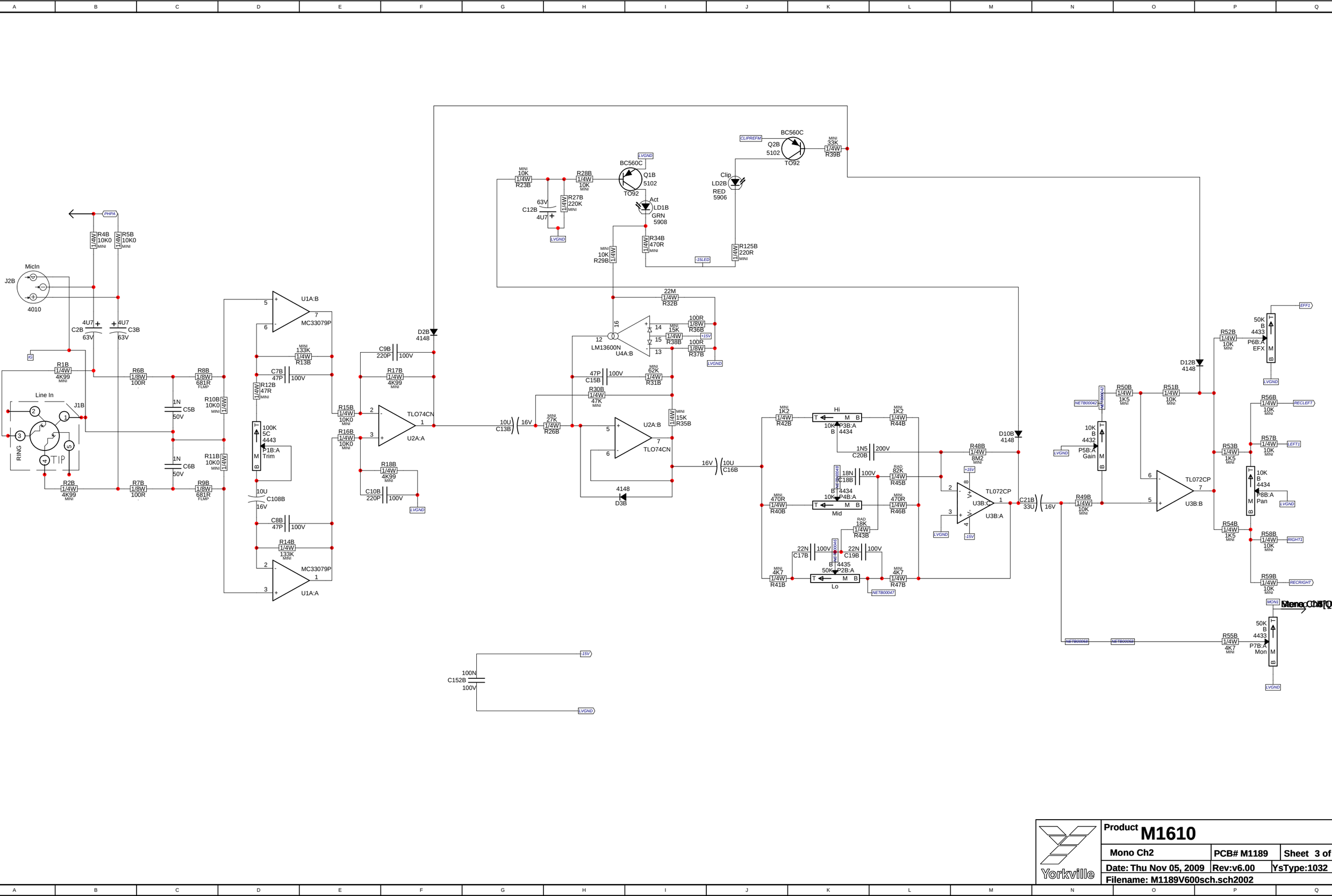
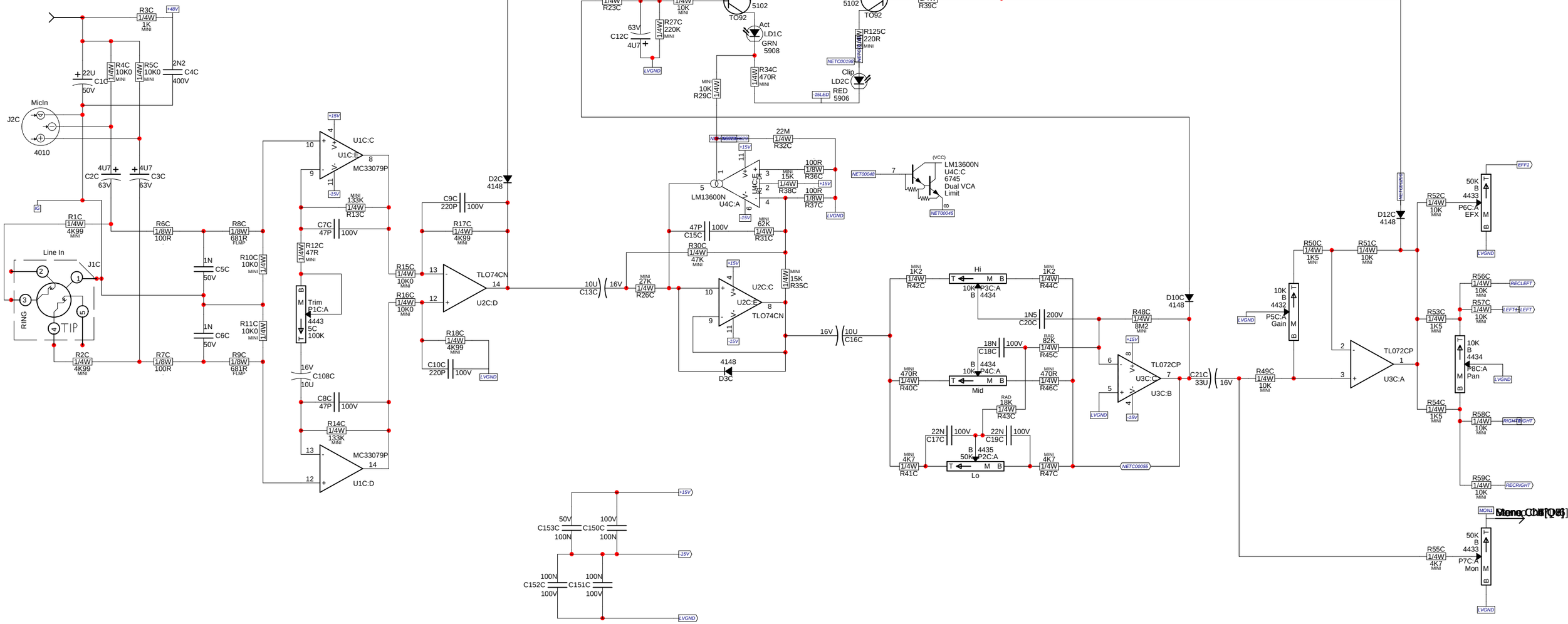
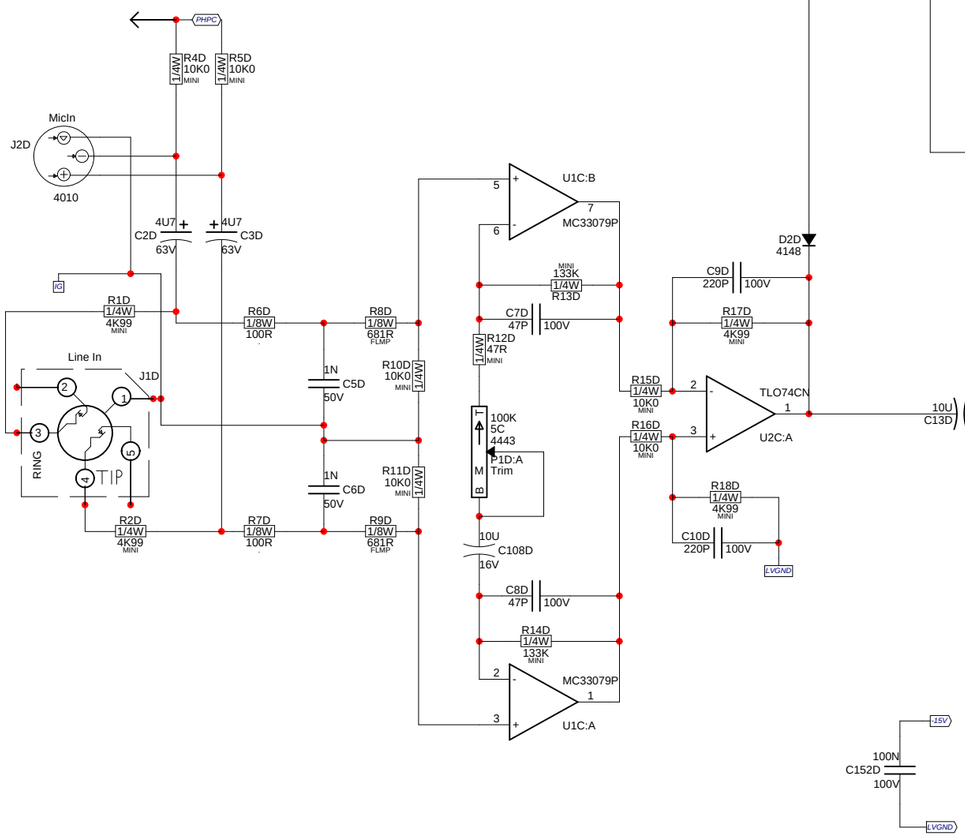
Product M1610

Mono Ch1	PCB# M1189	Sheet 2 of 14
Date: Thu Nov 05, 2009	Rev:v6.00	YsType:1032
Filename: M1189V600sch.sch2002		


PHPA
R4B 10K0 MINI
R5B 10K0 MINI
MicIn
J2B
4010
4U7 C2B 63V
4U7 C3B 63V
IG
R1B 1/4W 4K99 MINI
Line In
J1B
RING
TIP
R2B 1/4W 4K99 MINI
R6B 1/8W 100R
R7B 1/8W 100R
R8B 1/8W 681R FLMP
R9B 1/8W 681R FLMP
1N C5B 50V
1N C6B 50V
R10B 10K0 MINI 1/4W
R11B 10K0 MINI 1/4W
U1A:B
MC33079P
MINI 133K 1/4W R13B
C7B 47P 100V
R12B 47R MINI 1/4W
100K 5C 4443 P1B:A Trim
10U C108B 16V
C8B 47P 100V
R14B 1/4W 133K MINI
MC33079P
U1A:A
D2B 4148
C9B 220P 100V
R17B 1/4W 4K99 MINI
R15B 1/4W 10K0 MINI
R16B 1/4W 10K0 MINI
TLO74CN
U2A:A
R18B 1/4W 4K99 MINI
C10B 220P 100V
LVGND
10U C13B 16V
MINI 27K 1/4W R26B
22M 1/4W R32B
LM13600N U4A:B
100R 1/8W R36B
MINI 15K 1/4W R38B
100R 1/8W R37B
+15V
47P C15B 100V
MINI 62K 1/4W R31B
R30B 1/4W 47K MINI
MINI 15K 1/4W R35B
U2A:B
TLO74CN
16V 10U C16B
4148 D3B
BC560C Q1B 5102 TO92
MINI 10K 1/4W R23B
R28B 1/4W 10K MINI
R27B 1/4W 220K MINI
63V C12B 4U7
Act LD1B GRN 5908
R34B 1/4W 470R MINI
MINI 10K 1/4W R29B
-15V
BC560C Q2B 5102 TO92
CLIPREFM
MINI 33K 1/4W R39B
Clip LD2B RED 5906
R125B 1/4W 220R MINI
JSLED
MINI 1K2 1/4W R42B
Hi
10K P3B:A 4434
MINI 1K2 1/4W R44B
1N5 C20B 200V
R48B 1/4W 8M2 MINI
D10B 4148
18N C18B 100V
RAD 82K 1/4W R45B
MINI 470R 1/4W R40B
10K P4B:A 4434
Mid
MINI 470R 1/4W R46B
RAD 18K 1/4W R43B
22N C17B 100V
22N C19B 100V
MINI 4K7 1/4W R41B
50K P2B:A 4435
Lo
MINI 4K7 1/4W R47B
NETB00047
TL072CP
U3B:C
U3B:A
C21B 33U 16V
R49B 1/4W 10K MINI
TL072CP
U3B:B
D12B 4148
R50B 1/4W 1K5 MINI
R51B 1/4W 10K MINI
10K B 4432 P5B:A Gain
R52B 1/4W 10K MINI
50K B 4433 P6B:A EFX
EFF1
R56B 1/4W 10K MINI
RECLEFT
R53B 1/4W 1K5 MINI
R57B 1/4W 10K MINI
LEFT1
10K B 4434 P8B:A Pan
R54B 1/4W 1K5 MINI
R58B 1/4W 10K MINI
RIGHT1
R59B 1/4W 10K MINI
RECRIGHT
MON1
50K B 4433 P7B:A Mon
R55B 1/4W 4K7 MINI
NETB00052
100N C152B 100V
15V
LVGND
Yorkville
Product M1610
Mono Ch2
PCB# M1189
Sheet 3 of 14
Date: Thu Nov 05, 2009
Rev:v6.00
YsType:1032
Filename: M1189V600sch.sch2002



Yorkville	Product **M1610**		
	Mono Ch3	PCB# M1189	Sheet 4 of 14
	Date: Thu Nov 05, 2009	Rev:v6.00	YsType:1032
	Filename: M1189V600sch.sch2002		



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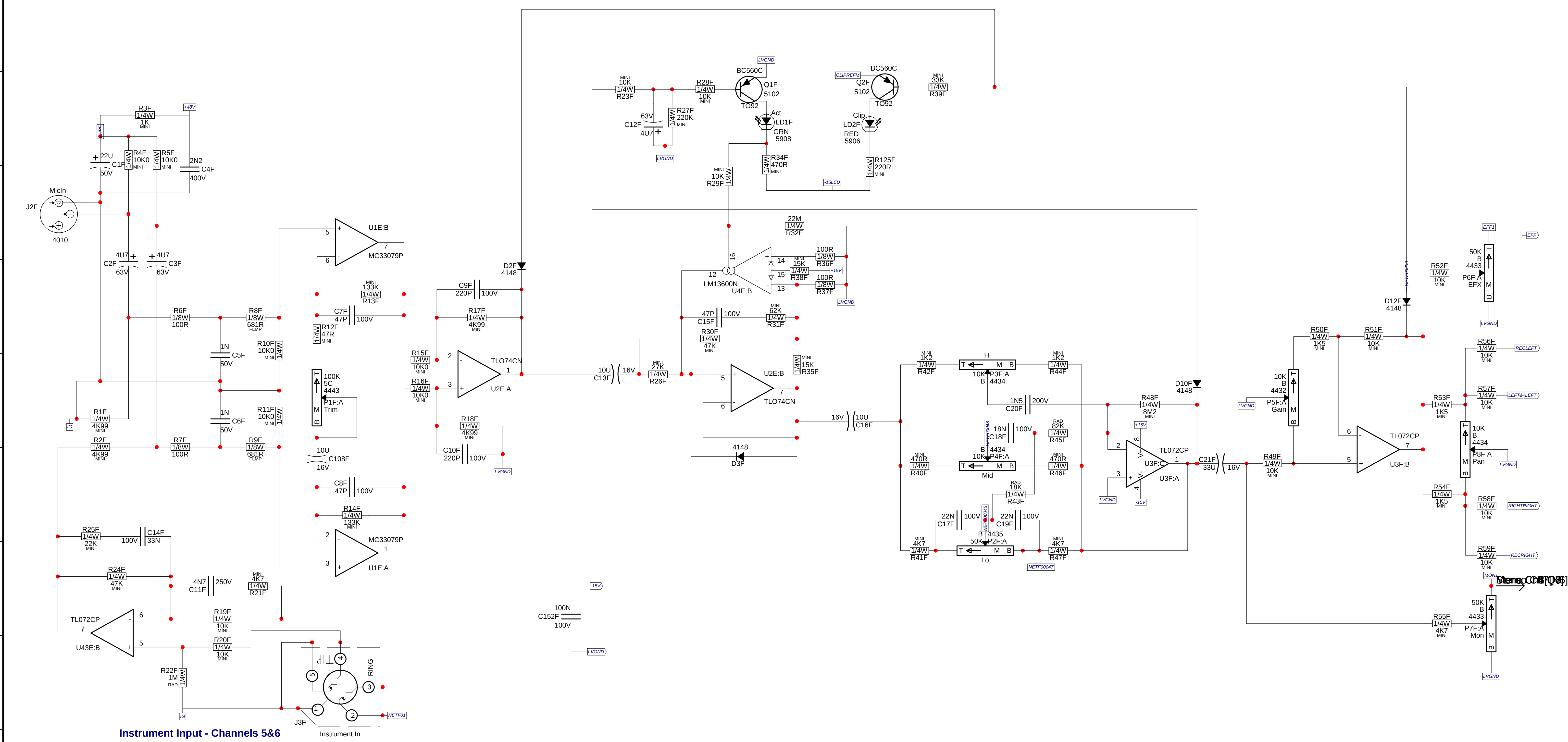
Product M1610		
Mono Ch4	PCB# M1189	Sheet 5 of 14
Date: Thu Nov 05, 2009	Rev:v6.00	YsType:1032
Filename: M1189V600sch.sch2002		

Only Channel 5 is shown.
Channels 5 & 6 employ the same circuit.

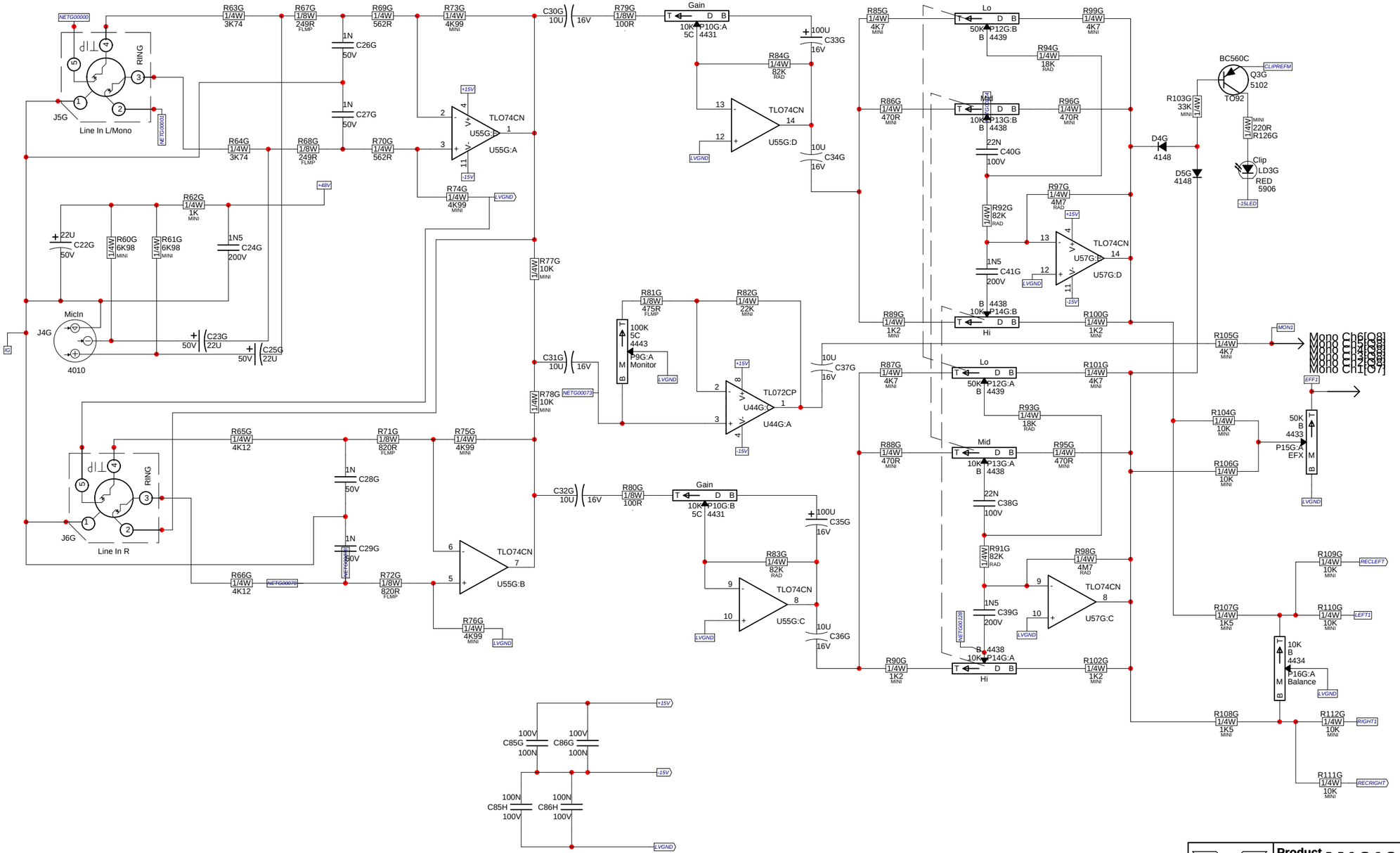
MicIn
J2E
4010
R4E 10K0 MINI
R5E 10K0 MINI
4U7 C2E 63V
4U7 C3E 63V
R6E 1/8W 100R
R8E 1/8W 681R FLMP
1N C5E 50V
R10E 10K0 MINI
R1E 4K99 MINI
R11E 10K0 MINI
R2E 4K99 MINI
R7E 1/8W 100R
R9E 1/8W 681R FLMP
1N C6E 50V
IG
+15V
U1E:C
U1E:E
MC33079P
-15V
MINI 133K R13E
C7E 47P 100V
R12E 47R MINI
B M T Trim P1E:A 4443 5C 100K
16V C108E 10U
C8E 47P 100V
R14E 1/4W 133K MINI
MC33079P
U1E:D
R25E 22K MINI
100V C14E 33N
R24E 47K MINI
4N7 C11E 250V
MINI 4K7 R21E
TL072CP
U43E:A
U43E:C
R19E 10K MINI
R20E 10K MINI
R22E 1M RAD
J3E
TIP RING
NETE01
Instrument In
Instrument Input - Channels 5&6
D2E 4148
C9E 220P 100V
R17E 4K99 MINI
R15E 10K0 MINI
R16E 10K0 MINI
TLO74CN
U2E:D
R18E 4K99 MINI
C10E 220P 100V
10U C13E 16V
MINI 27K R26E
R28E 10K MINI
BC560C Q1E 5102 TO92
LVGND
63V C12E 4U7
R27E 220K MINI
Act LD1E GRN 5908
MINI 10K R29E
R34E 470R MINI
-15SLED
MINI 10K R23E
22M R32E
LM13600N U4E:A
U4E:E
U4E:B
100R R36E
100R R37E
47P C15E 100V
MINI 62K R31E
R30E 47K MINI
MINI 15K R35E
U2E:C
U2E:E
TLO74CN
4148 D3E
16V 10U C16E
CLIPREFM
BC560C Q2E 5102 TO92
MINI 33K R39E
R125E 220R MINI
Clip LD2E RED 5906
(VCC)
LM13600N U4E:C 6745 Dual VCA Limit
MINI 1K2 R42E
Hi 10K P3E:A B 4434
MINI 1K2 R44E
1N5 C20E 200V
R48E 8M2 MINI
D10E 4148
18N C18E 100V
RAD 82K R45E
MINI 470R R40E
B 4434 10K P4E:A
Mid
MINI 470R R46E
RAD 18K R43E
22N C17E 100V
22N C19E 100V
MINI 4K7 R41E
B 4435 50K P2E:A
Lo
MINI 4K7 R47E
NETE00055
TL072CP
U3E:C
U3E:B
C21E 33U 16V
R49E 1/4W 10K MINI
10K B 4432 P5E:A Gain M
TL072CP
U3E:A
NEFRHWR
D12E 4148
R52E 1/4W 10K MINI
50K B 4433 P6E:A EFX M
EFF1
EFF
Master[A10] Stereo Ch8[O6]
LVGND
R50E 1/4W 1K5 MINI
R51E 1/4W 10K MINI
R56E 1/4W 10K MINI
RECLEFT
R57E 1/4W 10K MINI
LEFT
R53E 1/4W 1K5 MINI
10K B 4434 P8E:A Pan M
R54E 1/4W 1K5 MINI
R58E 1/4W 10K MINI
RIGHT
R59E 1/4W 10K MINI
RECRIGHT
MONO
Mono Ch5[O6]
50K B 4433 P7E:A Mon M
R55E 1/4W 4K7 MINI
50V 100V C153E 100N C150E 100N
100N C152E 100V 100N C151E 100V

Yorkville	Product **M1610**		
	Mono Ch5	PCB# M1189	Sheet 6 of 14
	Date: Thu Nov 05, 2009	Rev:v6.00	YsType:1032
	Filename: M1189V600sch.sch2002		

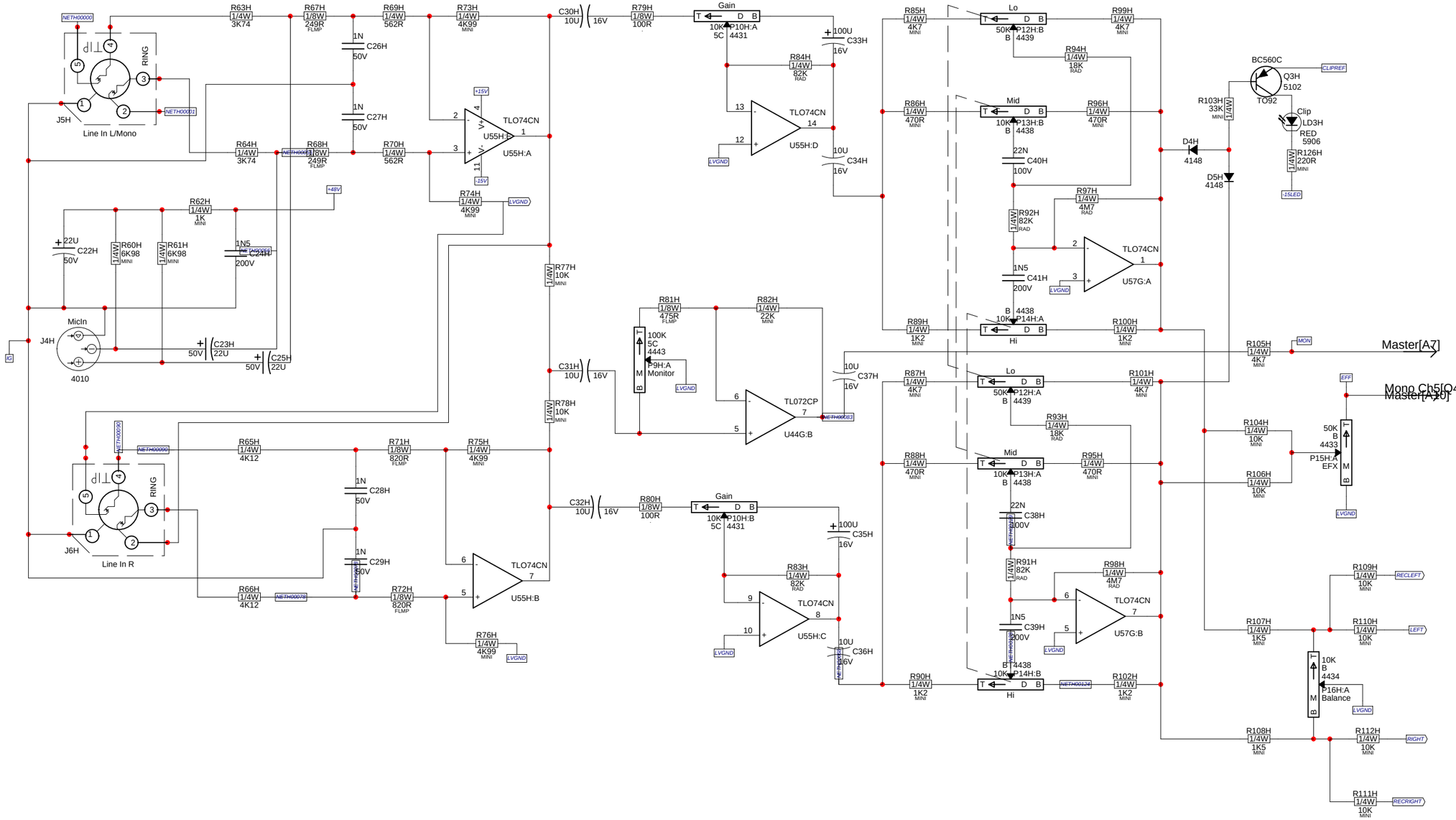


Yorkville	Product **M1610**		
	Mono Ch6	PCB# M1189	Sheet 7 of 14
	Date: Thu Nov 05, 2009	Rev:v6.00	YsType:1032
	Filename: M1189V600sch.sch2002		

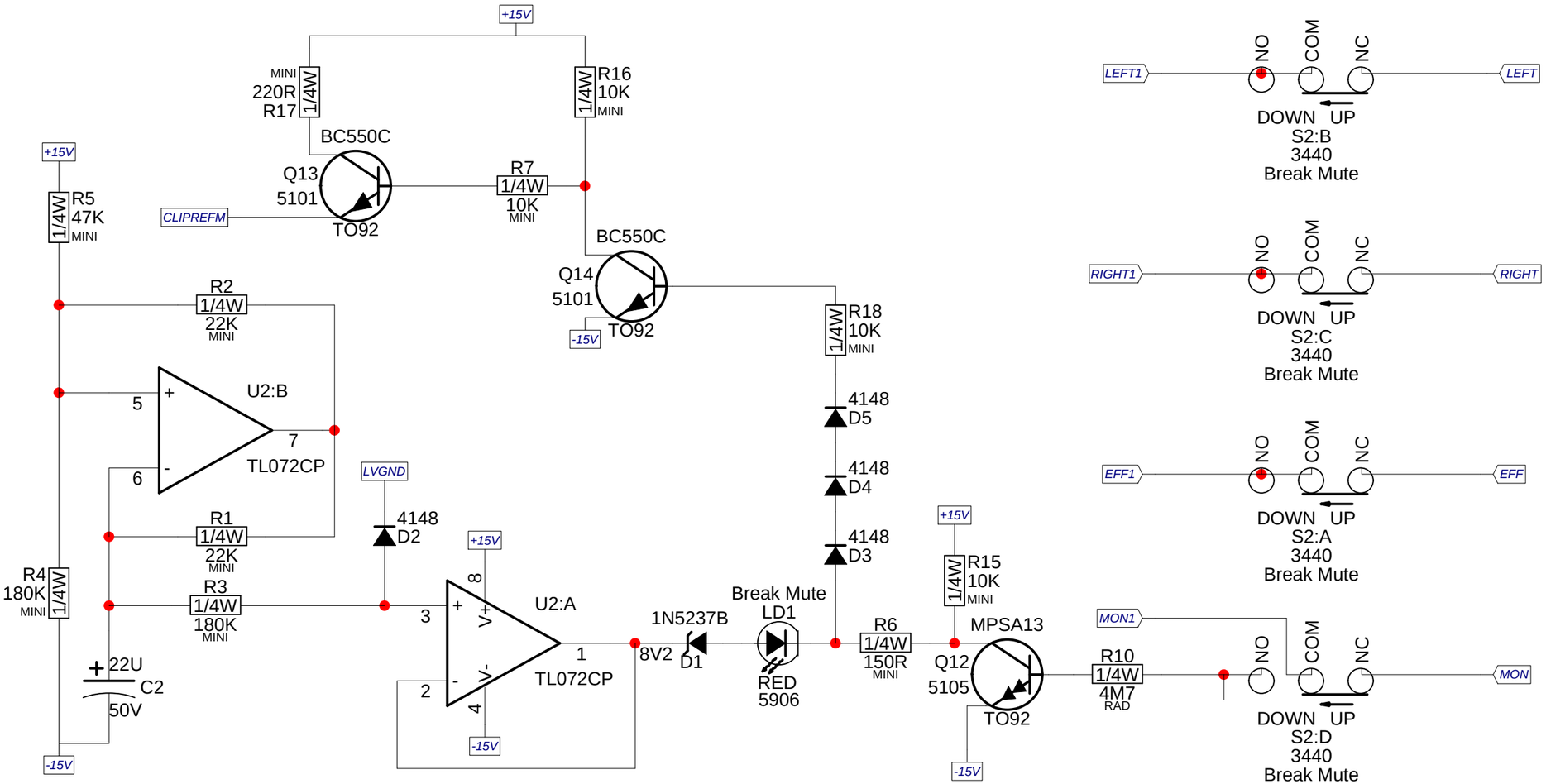
Only channels 7&8 are shown.
Channels 9&10 employ
the same circuit.



Product **M1610**			
Stereo Ch7	PCB# M1189	Sheet 8 of 14	
Date: Thu Nov 05, 2009	Rev:v6.00	YsType:1032	
Filename: M1189V600sch.sch2002			



Yorkville	Product **M1610**		
	Stereo Ch8	PCB# M1189	Sheet 9 of 14
	Date: Thu Nov 05, 2009	Rev:v6.00	YsType:1032
	Filename: M1189V600sch.sch2002		



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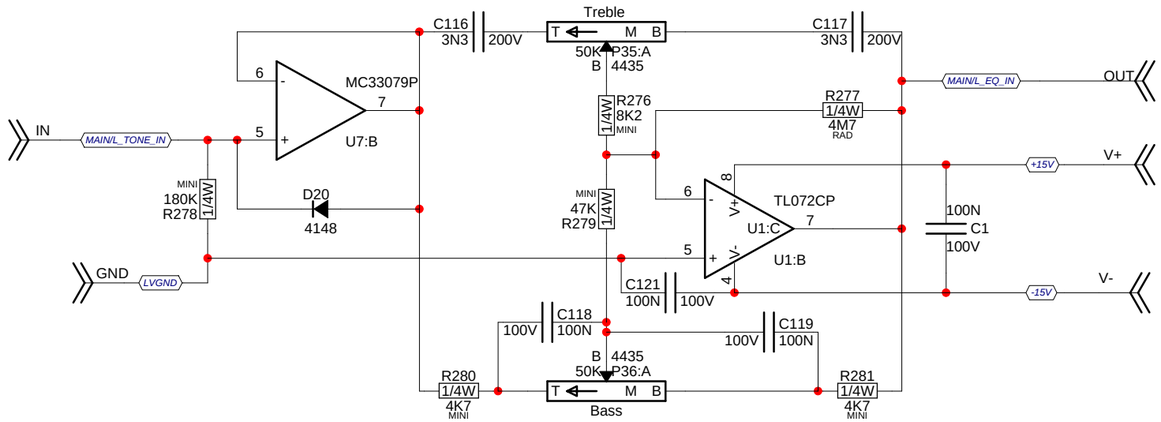
Product **M1610**		
BreakMute	**PCB# M1189**	**Sheet 10 of 14**
Date: Thu Nov 05, 2009	**Rev:v6.00**	**YsType:1032**
Filename: M1189V600sch.sch2002		



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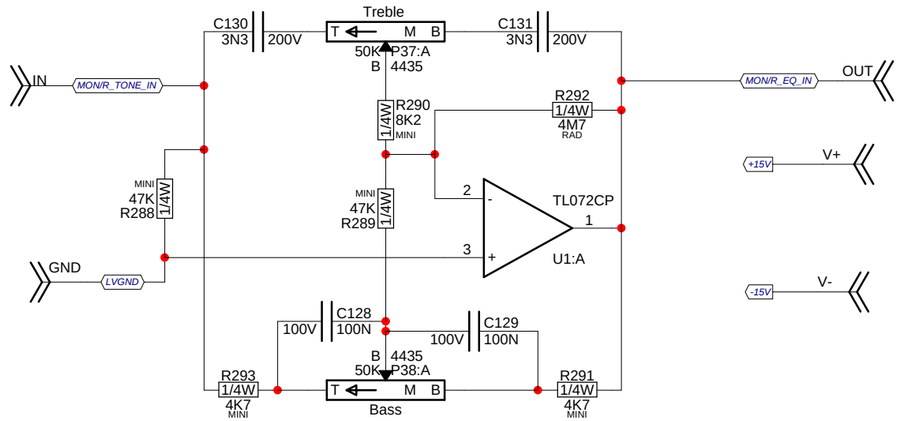
Product **M1610**

TONE1	PCB# M1189	Sheet 11 of 14
Date: Thu Nov 05, 2009	Rev:v6.00	YsType:1032
Filename: M1189V600sch.sch2002		



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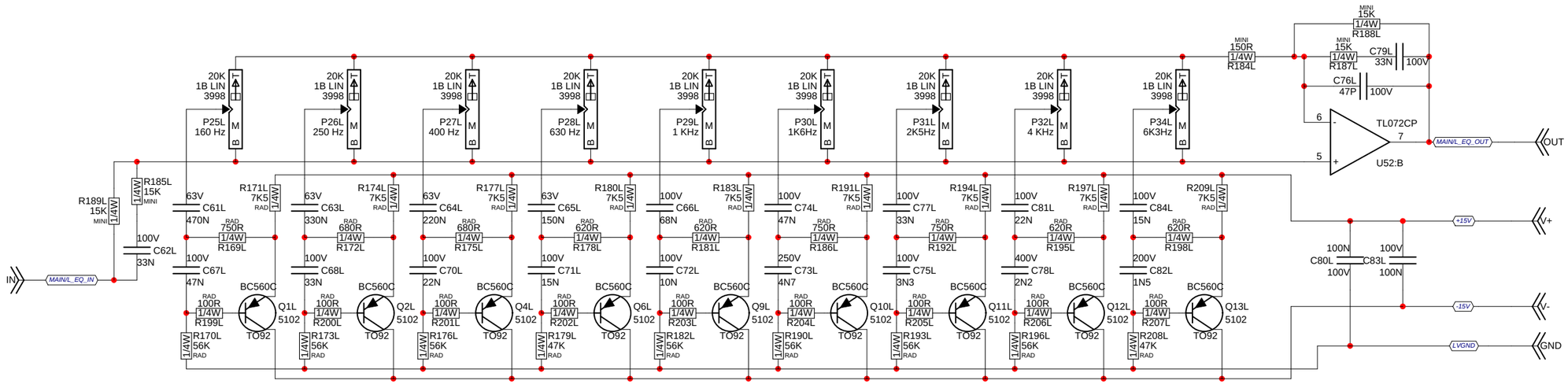
Product M1610

TONE2	PCB# M1189	Sheet 12 of 14
Date: Thu Nov 05, 2009	Rev:v6.00	YsType:1032
Filename: M1189V600sch.sch2002		



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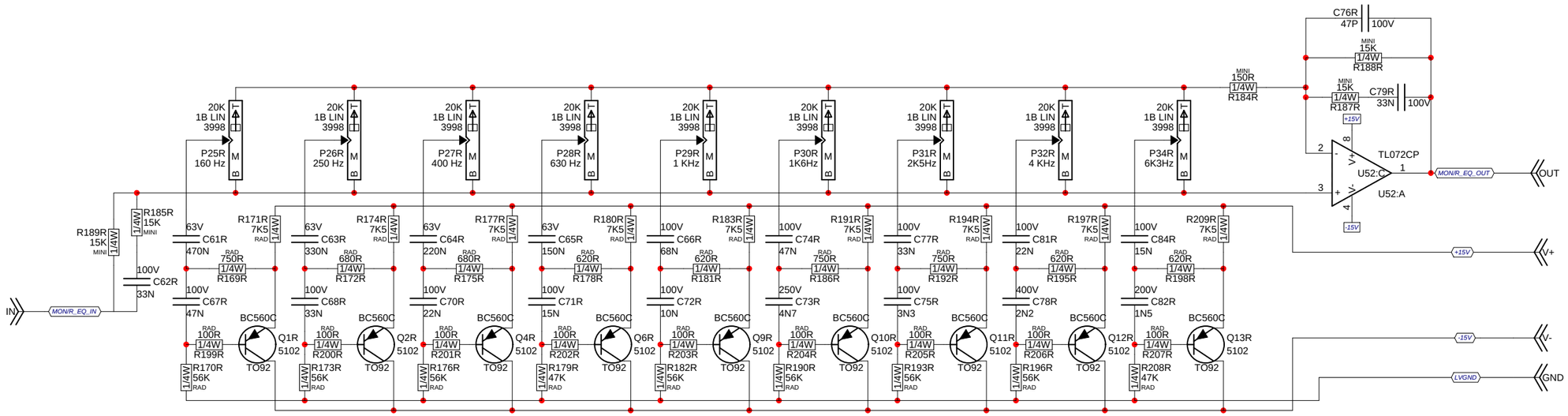
Product **M1610**		
EQ1	**PCB# M1189**	**Sheet 13 of 14**
Date: Thu Nov 05, 2009	**Rev:v6.00**	**YsType:1032**
Filename: M1189V600sch.sch2002		



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Product **M1610**		
EQ2	PCB# M1189	Sheet 14 of 14
Date: Thu Nov 05, 2009	Rev:v6.00	YsType:1032
Filename: M1189V600sch.sch2002		

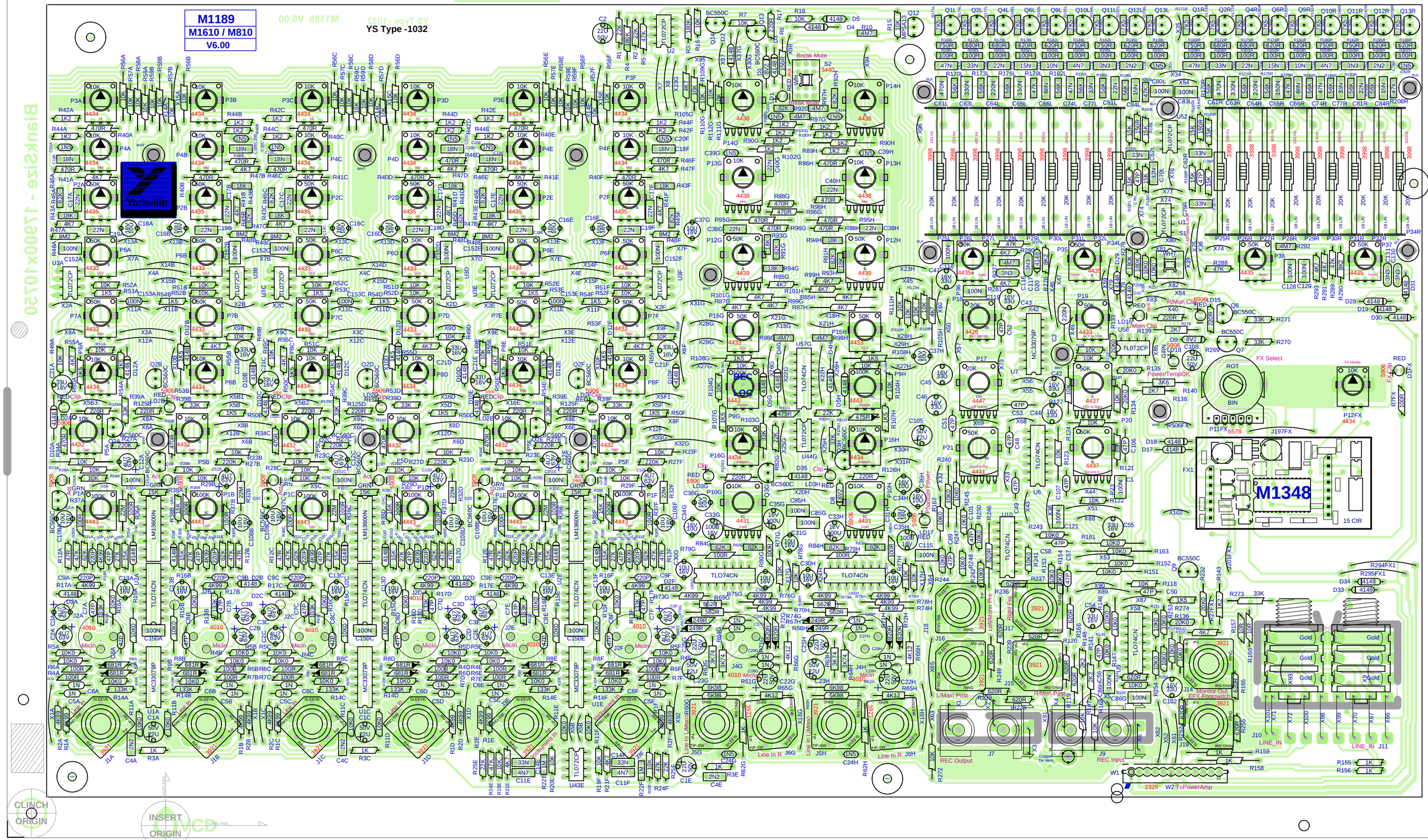
Pcb Mech M1189V6.00
Top Assy M1189V6.00

Wave Solder ---------->

M1189
M1610 / M810
V6.00

YS Type -1032

BlankSize - 17900x10750

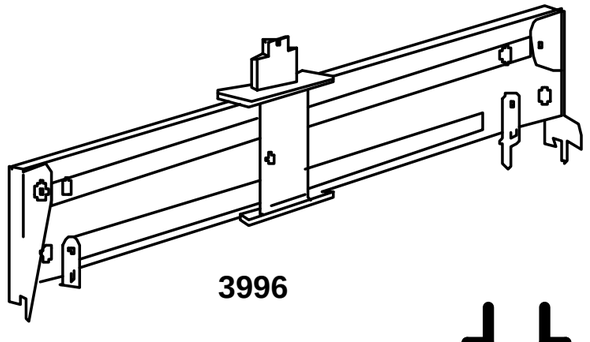


SEE LAYOUT DOCUMENTATION

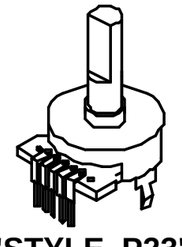
SEE LAYOUT DIAGRAM

M1189 PRODUCTION NOTES

1.



3996



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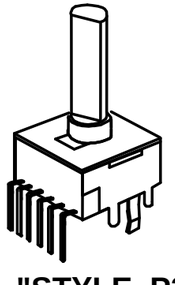

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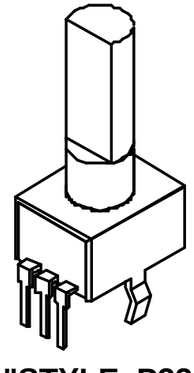

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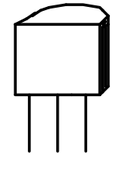
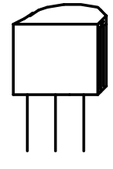
2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63



E B C
TO-92

BC550C
BC560C



C B E
TO-92

SEE PRODUCT HISTORY

SEE PRODUCTION NOTES

M1189 HISTORY

MODEL(S):- M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	31 Dec, 2003	v1.00p3	Moved D3 anode to cathode of LD1
2	2 Feb, 2004	1.00	Change break mute flash rate
3	17 Feb, 2004	1.01	Move C7a-f, R13a-f to make room for AA series xlr.
4	.	.	Change hole sizes for AA series xlr.
5	.	.	Changed U1FX SRAM to 32kX8
6	24 Feb, 2004	1.02	Changed 3925 XLRs to 4010 AA series
7	7-APR-2004	2.00	PC#6675 Moved C150(A,C,E) to avoid hitting ICs
8			Removed routing from board - slots done on drill now
9	15-APR-2004	2.00	PC#6677 Chg X41 to C3(220n 50V), set gerber
10			so TIE4 gets output properly
11			PC#6679 Chg. C21(A,B,C,D,E,F) from 470nF to 33uF
12	6-MAY-2004	2.00	PC#6686 MOVED C23FX AWAY FROM SPACER
13	Aug 4, 2004	2.00	Fixed silk screen on U6FX and U2FX
1	AUG-16-2004	2.10	PC#6718 CHANGE R140 TO 10K0 (6116),
2	D	V	R138&R139 TO 9K09 (6112)
3	NOV-23-2004	.	PC#6771:#3571->#3507 SKT FOR #6993 SRAM (GT)
4	JAN-05-2005	.	GT:PC#6792:P17 FROM 50KB #4441 TO 20KA #4447
5	21 Apr, 2005	2.11	Updated 3921 jacks for clinch.
6	4 Aug 2005	2.20	AH, PC#6816, ADD A HOLE FOR FEEDING GREEN
7	.	.	GROUND WIRE.
8	14 JUN 2006	2.30	AH, PC#7091, UPDTAE #5322 CHANGE DRILL SIZE TO 40
9	.	.	PC#6989, STRENTHEN RCA JACK SECTION BREAKAWAY
10	.	.	#4581 UPDATED, PROPER DRILLING ORDER
11	11-JAN-2008	3.00	PC#7325, FORCE UPDATE PARTS FOR NEW PAD TYPE
12	.	.	PC#7330, REMOVE EXTRA PADS FROM U1FX AND U3FX
13	2008/02/20	4.00	New DFX, solder updates, add amp in jacks, link for tie4
1	2008/03/19	5.00	Corrected Amp in jack swap.
2	2008/03/25	.	Added copper pour to encoder and pot legs. Rotated thief
3	.	.	pads on stereo channel pots.
4	2008/04/18	.	Added scoring tooling holes.
5	20080619	.	Changed XLR jacks to minimum outline.
6	2009/09/18	6.00	PC#7868 - changed to standoff nuts. Add X102.
7	2009/09/24	6.00	PC#7876 - Ribbon cable change. Modified some pads on
8	.	.	dual pots to prevent solder bridging. D1--> 25MIL
9	.	.	PC#7878 - Make ampin jack breakouts smaller.
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

M1189 POTLIST

MODEL(S):- M1610

REF	FUNCTION	PART#	KNOB	{NEW}
P25-34 L&R	Graphic EQ	3998	N/A	N
P1A,1B,1C,1D,1E,1F	Trim	4443	9915	N
P9G,9H	Mon Send	4443	9917	N
P5A,5B,5C,5D,5E,5F	Level	4432	9920	N
P15G,15H,6A,6B,6C,6D,6E,6F	FX Send	4433	9918	N
P7A,7B,7C,7D,7E,7F	Mon Send	4433	9917	N
P3A-F,4A-F	Hi, Mid	4434	9916	N
P16G,16H, 8A-F	Bal, Pan	4434	9919	N
P2A,2B,2C,2D,2E,2F	Lo	4435	9916	N
P35,36,37,38	Master Treble, Bass	4435	9916	N
P21	Record Out	4441	9920	N
P20	FX2 Main	4437	9920	N
P13G,13H,14G,14H	Stereo Hi, Mid	4438	9916	N
P12G,12H	Stereo Lo	4439	9916	N
P11FX	FX Select	6587	8398	N
P23	Record In	4437	9915	N
P18	Monitor	4426	9917	N
P19	FX2 Mon	4433	9917	N
P17	L&R Master	4447	9920	N
P12FX	FX Modify	4434	9918	N

M1189 PENDING CHANGES

MODEL(S):- M1610

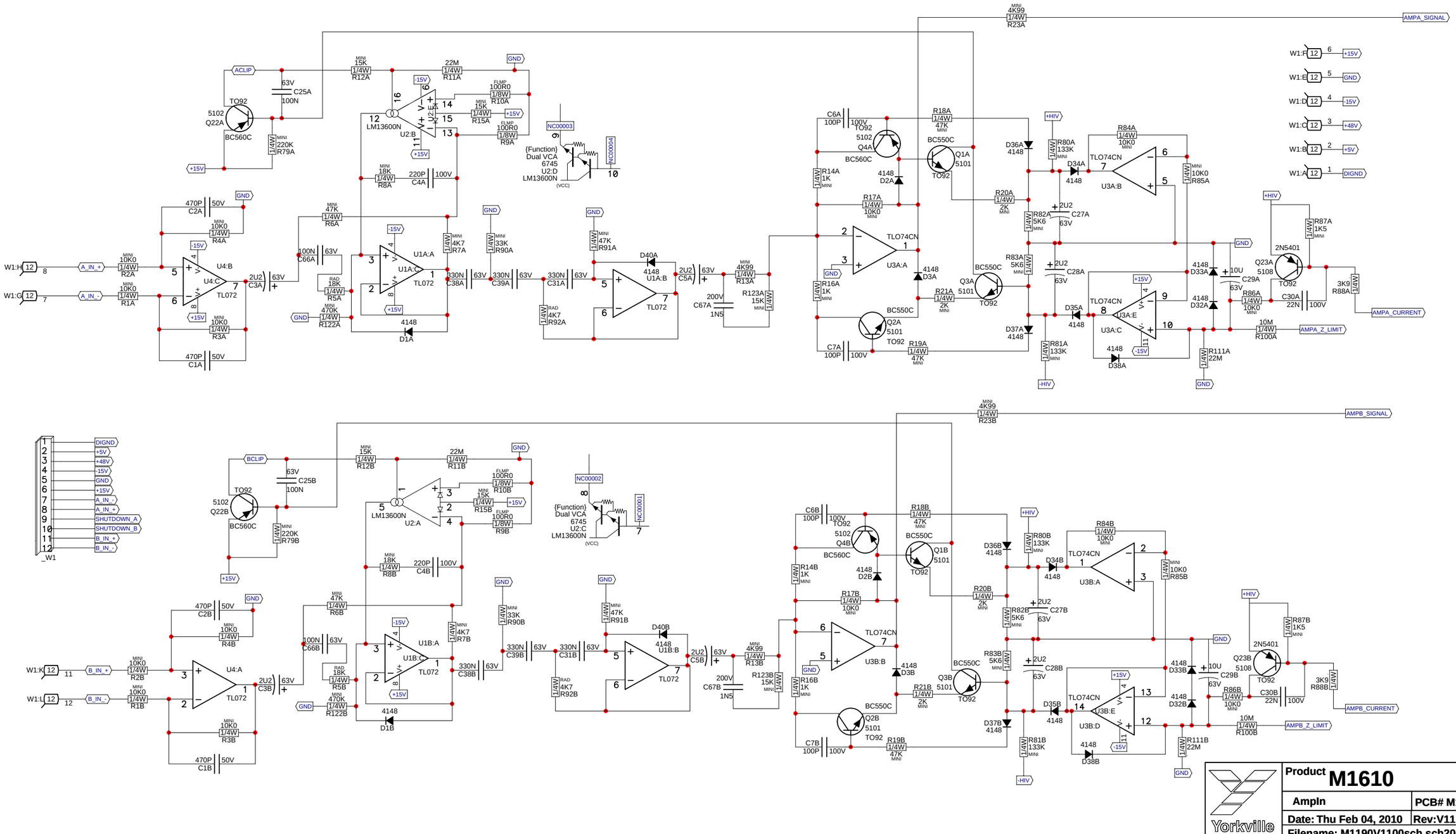
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

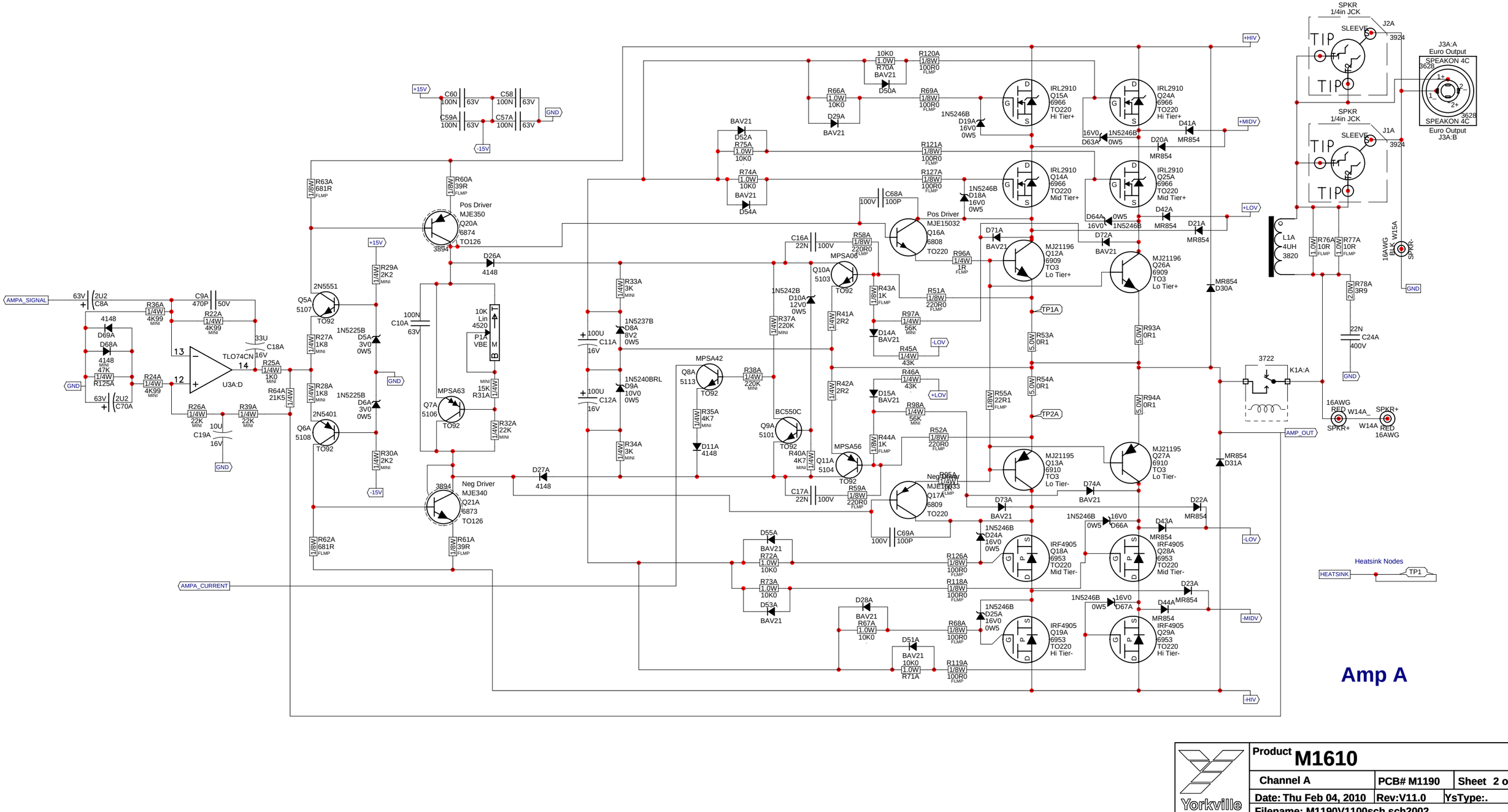
*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

M1189 DRILL HISTORY

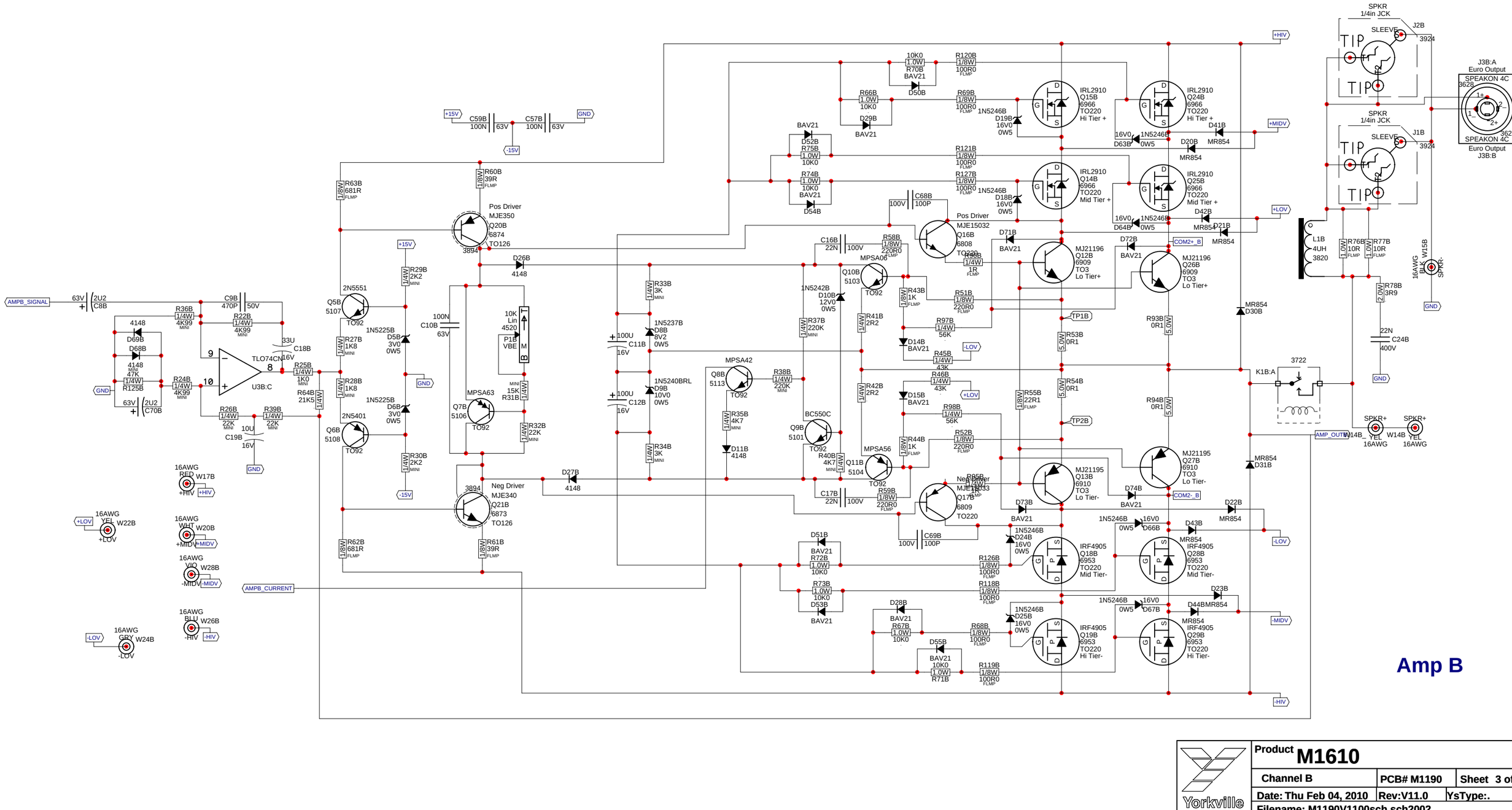
MODEL(S):- M810/M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	24-FEB-2004	V01	N
2	21-APR-2005	V02	N
3	4-AUG-2005	V03	N
4	2008/02/20	V04	N
5	2008/04/18	V05	N
6	D	V	N


ACLIP
BCLIP
AMPA_SIGNAL
AMPB_SIGNAL
AMPA_CURRENT
AMPB_CURRENT
AMPA_Z_LIMIT
AMPB_Z_LIMIT
A_IN_+
A_IN_-
B_IN_+
B_IN_-
DIGND
+5V
+48V
+HIV
-HIV
+15V
-15V
GND
SHUTDOWN_A
SHUTDOWN_B
LM13600N
TL072
TLO74CN
BC560C
BC550C
TO92
{Function} Dual VCA 6745 U2:D LM13600N
{Function} Dual VCA 6745 U2:C LM13600N
(VCC)
Yorkville
Product M1610
AmpIn
PCB# M1190
Sheet 1 of 4
Date: Thu Feb 04, 2010
Rev:V11.0
YsType:.
Filename: M1190V1100sch.sch2002



Yorkville	Product **M1610**		
	Channel A	PCB# M1190	Sheet 2 of 4
	Date: Thu Feb 04, 2010	Rev:V11.0	YsType:.
	Filename: M1190V1100sch.sch2002		

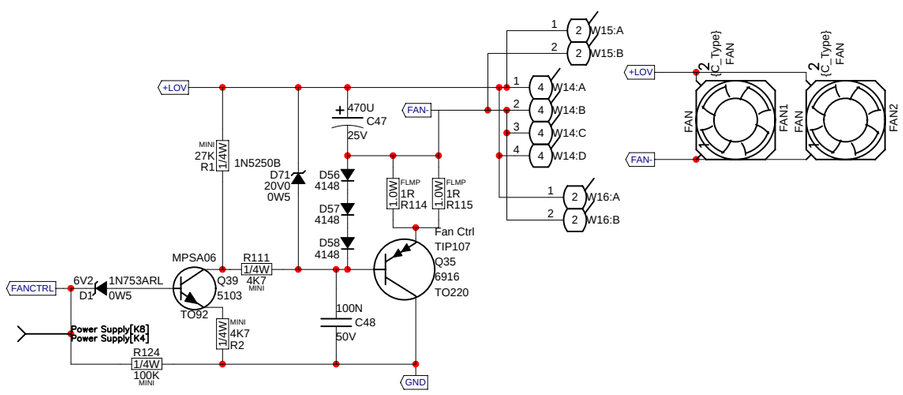

AMPB_SIGNAL
AMPB_CURRENT
+15V
-15V
GND
+HIV
-HIV
+MIDV
-MIDV
+LOV
-LOV
TLO74CN
U3B:C
Pos Driver
MJE350
Q20B
6874
TO126
Neg Driver
MJE340
Q21B
6873
Pos Driver
MJE15032
Q16B
6808
Neg Driver
MJE15033
Q17B
6809
IRL2910
Q15B
6966
Hi Tier +
IRL2910
Q14B
6966
Mid Tier +
IRL2910
Q24B
6966
Hi Tier +
IRL2910
Q25B
6966
Mid Tier +
MJ21196
Q12B
6909
Lo Tier+
MJ21196
Q26B
6909
Lo Tier+
MJ21195
Q13B
6910
Lo Tier-
MJ21195
Q27B
6910
Lo Tier-
IRF4905
Q18B
6953
Mid Tier-
IRF4905
Q28B
6953
Mid Tier-
IRF4905
Q19B
6953
Hi Tier-
IRF4905
Q29B
6953
Hi Tier-
SPKR
1/4in JCK
J2B
J1B
J3B:A
Euro Output
SPEAKON 4C
J3B:B
K1B:A
L1B
4UH
3820
AMP_OUT+
AMP_OUT-
SPKR+
SPKR-
16AWG
BLK W15B
16AWG
YEL W14B
16AWG
RED W17B
16AWG
YEL W22B
16AWG
WHT W20B
16AWG
VIO W28B
16AWG
BLU W26B
16AWG
GRY W24B
Amp B
Product M1610
Channel B
PCB# M1190
Sheet 3 of 4
Date: Thu Feb 04, 2010
Rev:V11.0
YsType:.
Filename: M1190V1100sch.sch2002
Yorkville

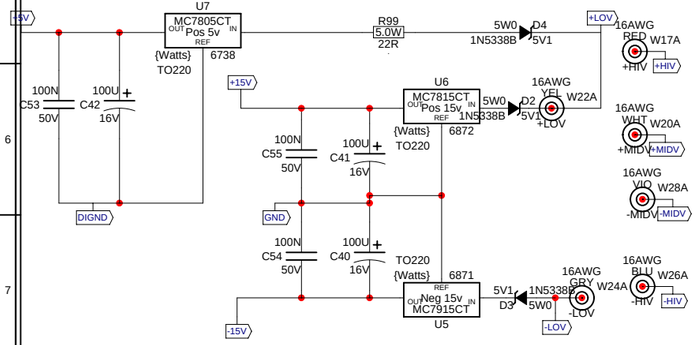
M1190.PCB_DATABASE_HISTORY

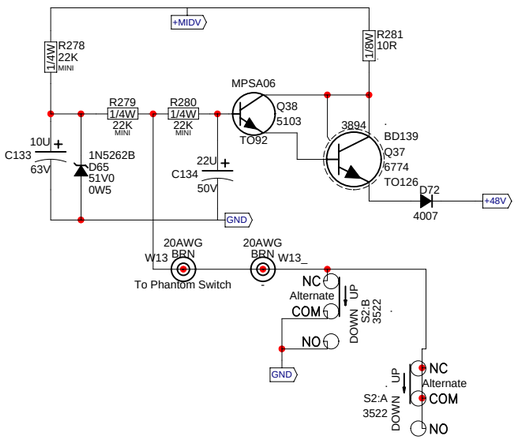
MODEL(S):- M1610

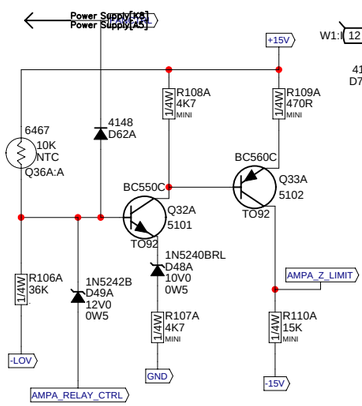
#	DATE	VER#	DESCRIPTION OF CHANGE
1	7 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	21-APR-2004	1.00	PC#6681 Modify route to let grn wire pass board near pot caps
5	6-MAY-2004	2.00	PC#6684 R83(A,B)->5K6,R5(A,B)6K8->18K,
6	D	V	D16&D17(A,B) 4148->BAT85,R47&R48(A,B)22R1->100R0
7	D	V	ADDED D71, D72
8	DEC-14-2004	3.00	GT:PC#6787: Fixed AC clearance, and W2&W3 tab label
9	FEB-07-2005	4.00	PC#6809 Remove D17,D16,D12,D13, R47,R48,R49,R50,C36
10	D	V	C15 (All A/B) R45,R46 A/B 36K->43K, D10 16V->12V
11	D	V	D9 A/B 14V->10V0, D8 A/B 12V->8V2. ADD R95 A/B
12	D	V	ADD R96 A/B, R97 A/B, R98 A/B, D71 A/B, D72 A/B
13	D	V	D73 A/B, D74 A/B, X1 ,X2 ,X3 ,X4 X5 AND X6
14	MAR-30-2005	5.00	RECREATED MASK LAYER TO FIX TESTPADS
15	MAR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
16	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
17	21 Apr, 2005	5.11	Force update parts to fix pad orientation
18	JUN-08-2005	6.00	PC#6919:GT:MOVED R95B AVOID HEATSINK COLLISION
19	.	.	XFORMER -> CH1302/E, ADDED 2x#4599,SWAPPED W34&
20	.	.	W35,R106A&B #6122 33K->#4868 36K, D56A&B #6440
21	.	.	4V7/0.5W->#6484 10V/1W, C32&C33 #5903 12000UF/35V
22	.	.	#5898 8200UF/50V, C36&C37 #5896 4700UF/80V->#5898
23	.	.	C25A&B #5224 47N/100V->#5212 100N/63V

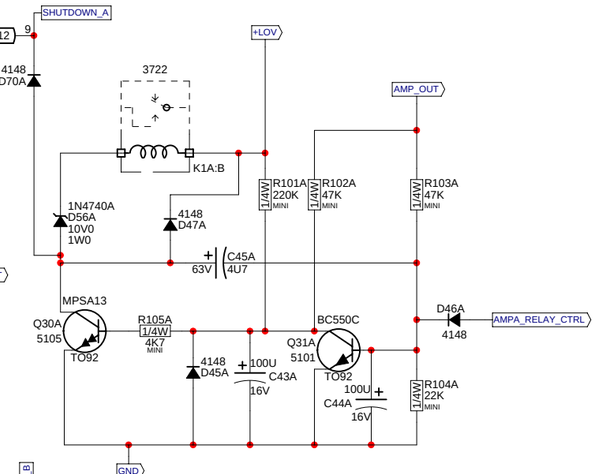
#	DATE	VER#	DESCRIPTION OF CHANGE
24	.	.	R79A&B #6127 470K->#6127 220K
25	.	.	ADDED D4 #5124 5V1/5W, R97&R98 #2006 1R/1W->#5124
26	.	.	Corrected the position of some test nodes.
27	.	.	Fixed BlankSize field
28	Jun-15-2006	7.00	AH, PC#7021, SPACE BETWEEN R96 AND R53
29	.	.	PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	2008/04/07	v8.0p0	Swap c37 with c51; c57 with c36. Moved x11b & x31b to
32	.	.	middle of HS slots. Solder updates, part updates.
33	2008/04/25	v8.00	Changed Q8a&b from 5107 to 5113 - MPSA42
34	2008/05/29	9.00	PC#7590 - PS hum fix. Moved K1B away from X15B.
35	2009/11/09	10.00	PCs 7875, 7876 - Ribbon cable change - XTR screws flipped
36	03-FEB-2010	.	PC7942,PC7980: Update #4xTO220-MTG GG
37	04-FEB-2010	11.00	PC7983: Change D2,D3,D4 #5124 span to .550 GG
38	D	V	N
39	D	V	N
40	D	V	N
41	D	V	N
42	D	V	N
43	D	V	N
44	D	V	N
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N

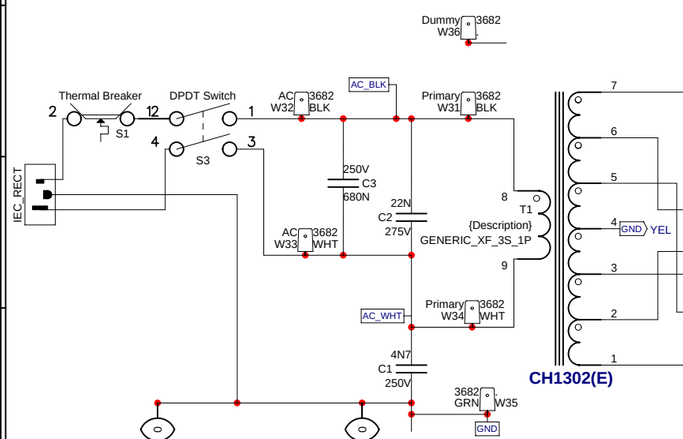


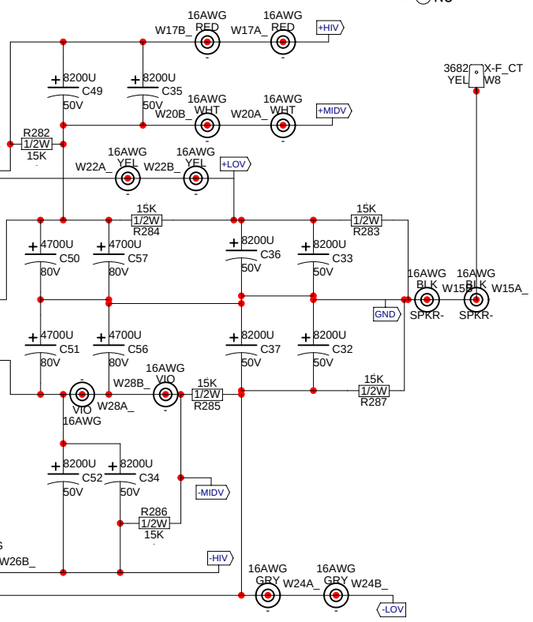


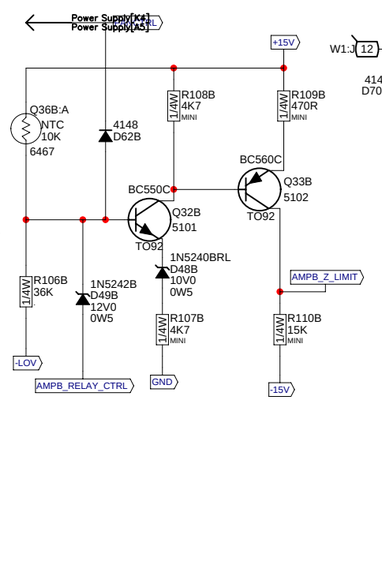


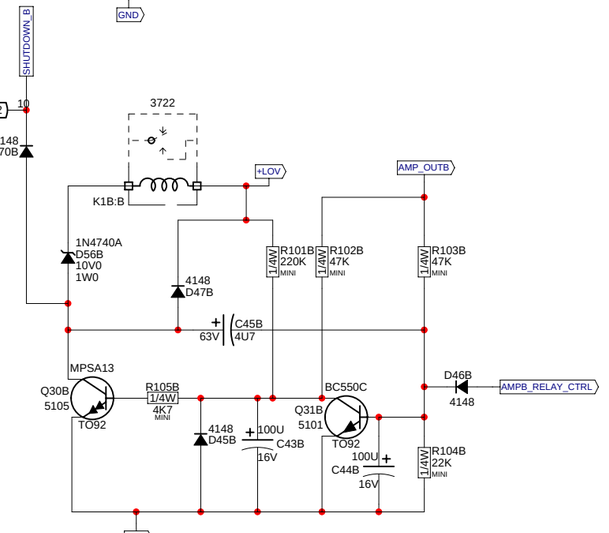












(E) DENOTES EUROPEAN

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Product M1610

Power Supply	PCB# M1190	Sheet 4 of 4
Date: Thu Feb 04, 2010	Rev:V11.0	YsType:.
Filename: M1190V1100sch.sch2002		

Pcb MechM1190V11.0
Top Assy M1190V11.0

Wave Solder →

BlankSize - 17900x10625

Heatsink covers this area

Set P1 for 8mv between TP1 and TP2

M1190 2/2 V11.0

M1190 1/2 V11.0

BEC

LOC

No RTV under resistors or relays.

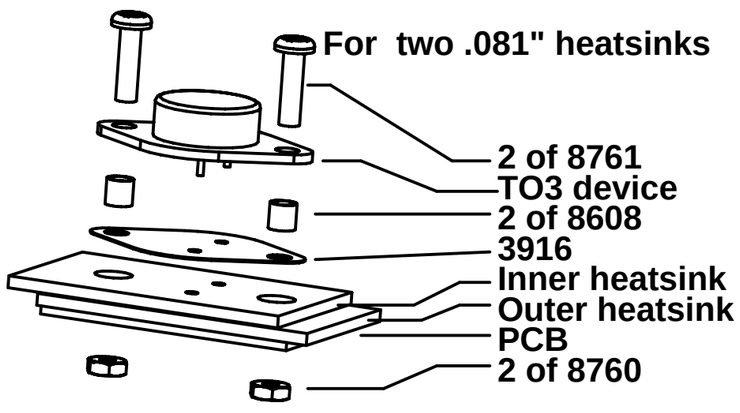
No RTV under resistors or relays.

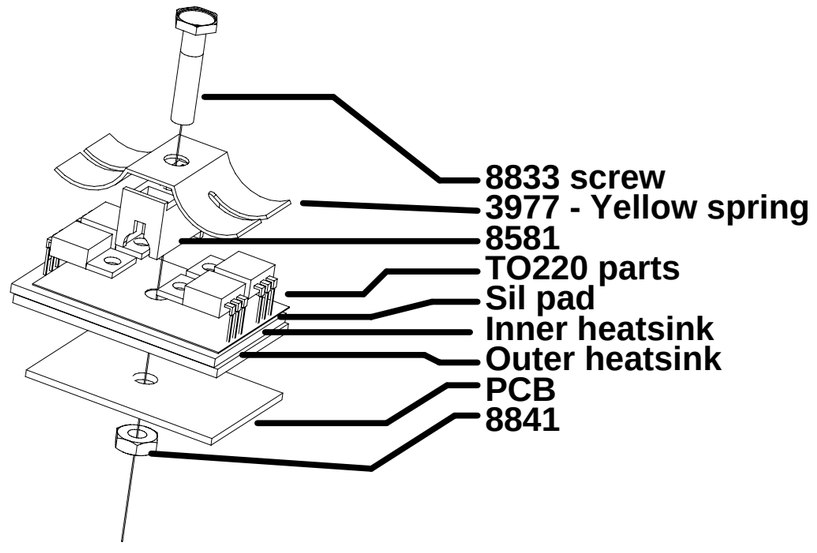
SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

M1190 PRODUCTION NOTES

1. Use three 8832 screws to allign and attach the heatsinks to the b
2. When assembling heatsinks to Q20(A&B),Q21(A&B), Q37, ensure heatsinks are straight and sit flat against board. Add a very small of RTV between heatsink and board if necessary.
   This prevent heatsink from shorting other components.





SEE LAYOUT HISTORY

SEE PPRODUCTION NOTES

M1190.PCB_DATABASE_HISTORY

MODEL(S):- M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	7 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	21-APR-2004	1.00	PC#6681 Modify route to let grn wire pass board near pwr caps
5	6-MAY-2004	2.00	PC#6684 R83(A,B)->5K6,R5(A,B)6K8->18K,
6			D16&D17(A,B) 4148->BAT85,R47&R48(A,B)22R1->100R0
7			ADDED D71, D72
8	DEC-14-2004	3.00	GT:PC#6787: Fixed AC clearance, and W2&W3 tab label
9	FEB-07-2005	4.00	PC#6809 Remove D17,D16,D12,D13, R47,R48,R49,R50,C14
10	D	V	C15 (All A/B) R45,R46 A/B 36K->43K, D10 16V->12V
11	D	V	D9 A/B 14V->10V0, D8 A/B 12V->8V2. ADD R95 A/B
12	D	V	ADD R96 A/B, R97 A/B, R98 A/B, D71 A/B, D72 A/B
13	D	V	D73 A/B, D74 A/B, X1 ,X2 ,X3 ,X4 X5 AND X6
14	MAR-30-2005	5.00	RECREATED MASK LAYER TO FIX TESTPADS
15	MAR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
16	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
17	21 Apr, 2005	5.11	Force update parts to fix pad orientation
18	JUN-08-2005	6.00	PC#6919:GT:MOVED R95B AVOID HEATSINK COLLISION
19	.	.	XFORMER -> CH1302/E, ADDED 2x#4599,SWAPPED W8 &
20	.	.	W35,R106A&B #6122 33K->#4868 36K, D56A&B #6440
21	.	.	4V7/0.5W->#6484 10V/1W, C32&C33 #5903 12000UF/35V ->
22	.	.	#5898 8200UF/50V, C36&C37 #5896 4700UF/80V->#5898
23	.	.	C25A&B #5224 47N/100V->#5212 100N/63V
24	.	.	R79A&B #6127 470K->#6127 220K
25	.	.	ADDED D4 #5124 5V1/5W, R97&R98 #2006 1R/1W->#5124
26	.	.	Corrected the position of some test nodes.
27	.	.	Fixed BlankSize field
28	Jun-15-2006	7.00	AH, PC#7021, SPACE BETWEEN R96 AND R53
29	.	.	PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	2008/04/25	8.00	Swap c37 with c51; c57 with c36. Moved x11b & x31b to
32	.	.	middle of HS slots. Solder updates, part updates.
33	.	.	Changed Q8a&b from 5107 to 5113 - MPSA42
34	2008/05/29	9.00	PC#7590 - PS hum fix. Moved K1B away from X15B.
35	2009/11/09	10.00	PCs 7875, 7876 - Ribbon cable change - XTR screws flipp
36	03-FEB-2010	.	PC7942,PC7980: Update #4xTO220-MTG GG
37	04-FEB-2010	11.00	PC7983: Change D2,D3,D4 #5124 span to .525 GG
38	D	V	N
39	D	V	N
40	D	V	N
41	D	V	N
42	D	V	N
43	D	V	N
44	D	V	N
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N

M1190 Drill History

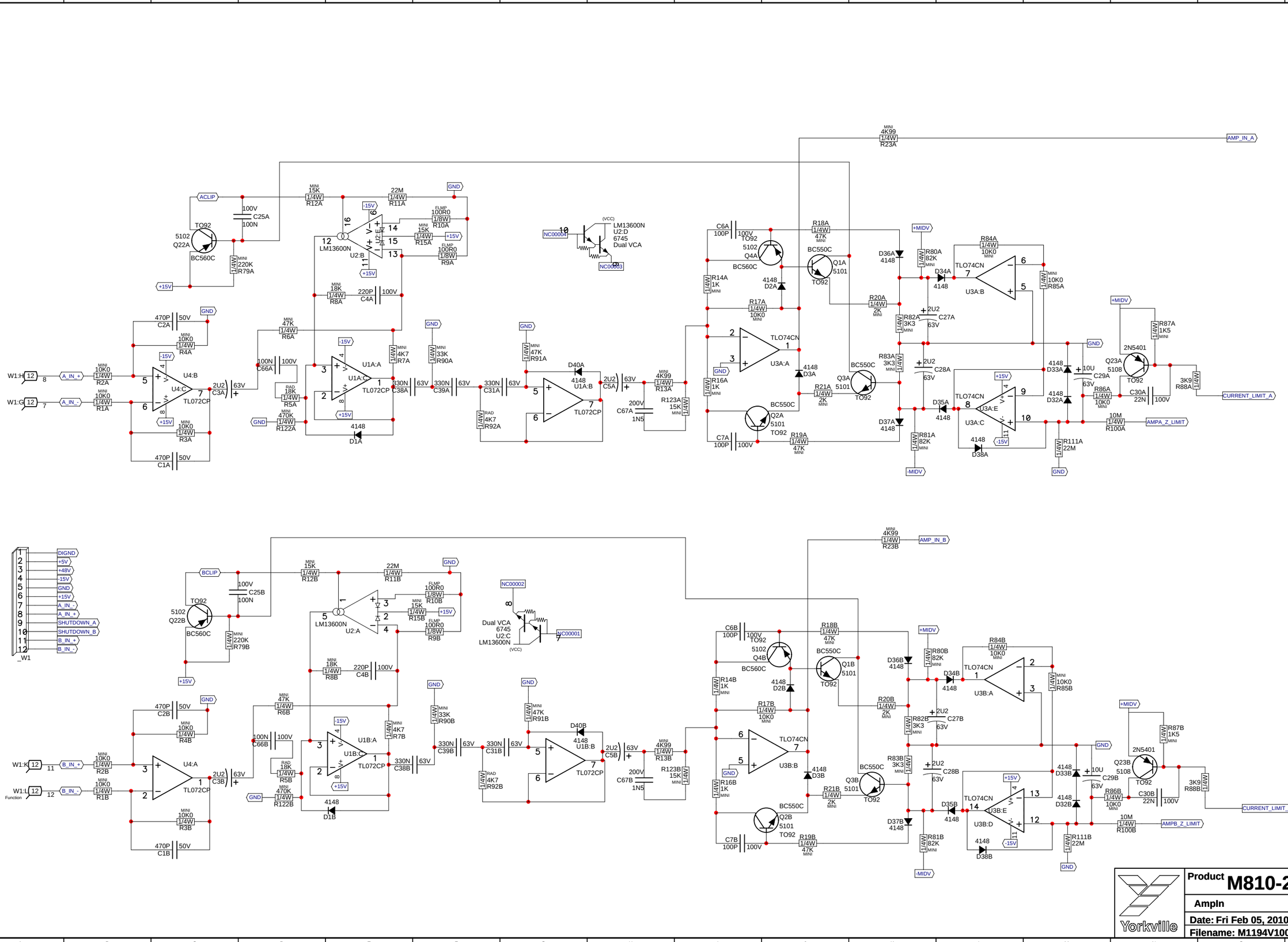
MODEL(S):- M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	5-MAY-2004	V03	Added notch to pass GRN wire from front
2	6-MAY-2004	V04	To match V2.00 changes
3	NOV-05-2004	V05	HG:PC#6730:REMOVED EXTRA ROUTING BITS
4	AUG-26-2005	V07	GT:CHANGES FOR 6V00 RELEASE. SEE HISTORY BOX
5	2008/04/25	V08	Solder updates.
6	2008/05/29	V09	PC#7590

M1190 PENDING CHANGES

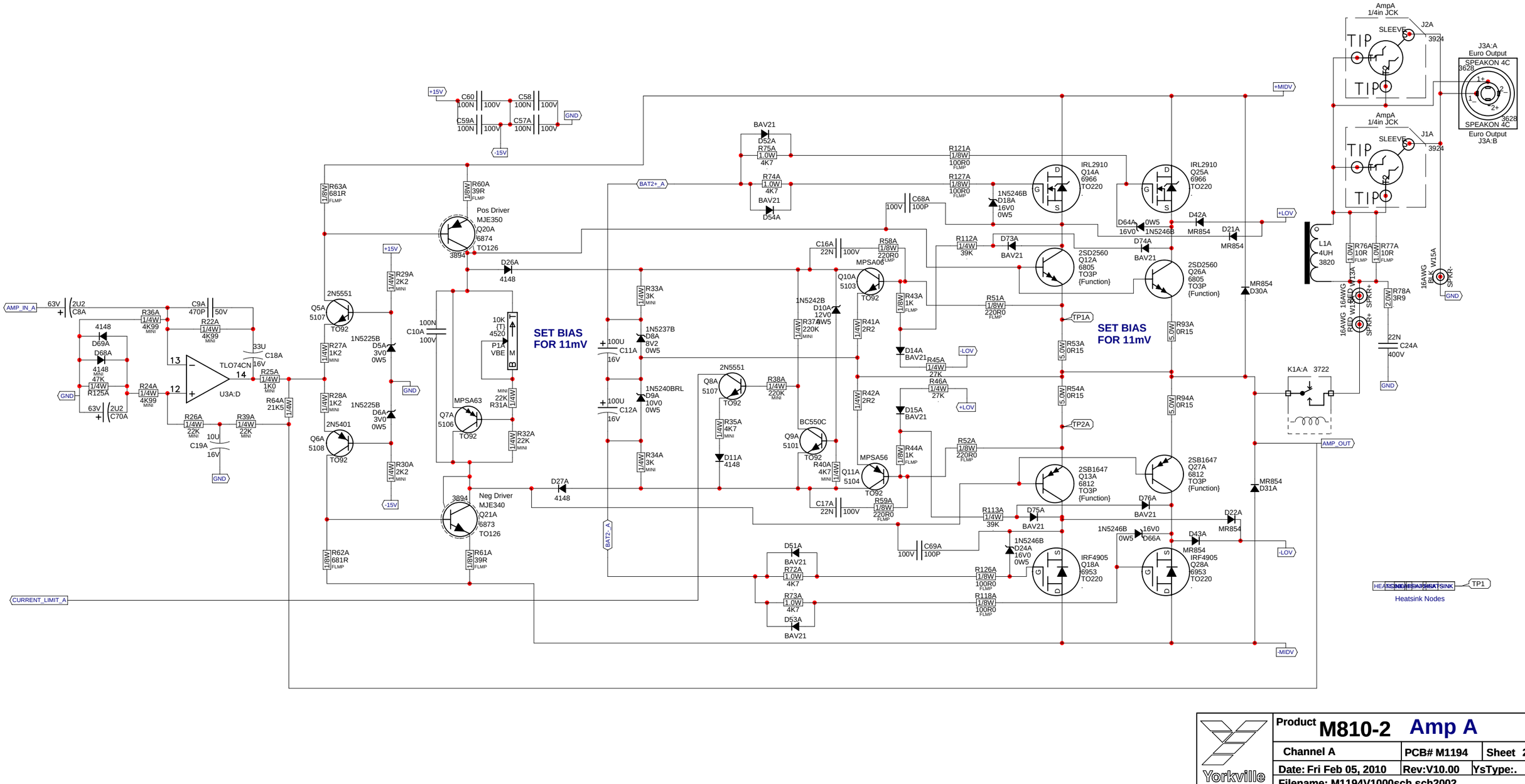
MODEL(S):- M1610

#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

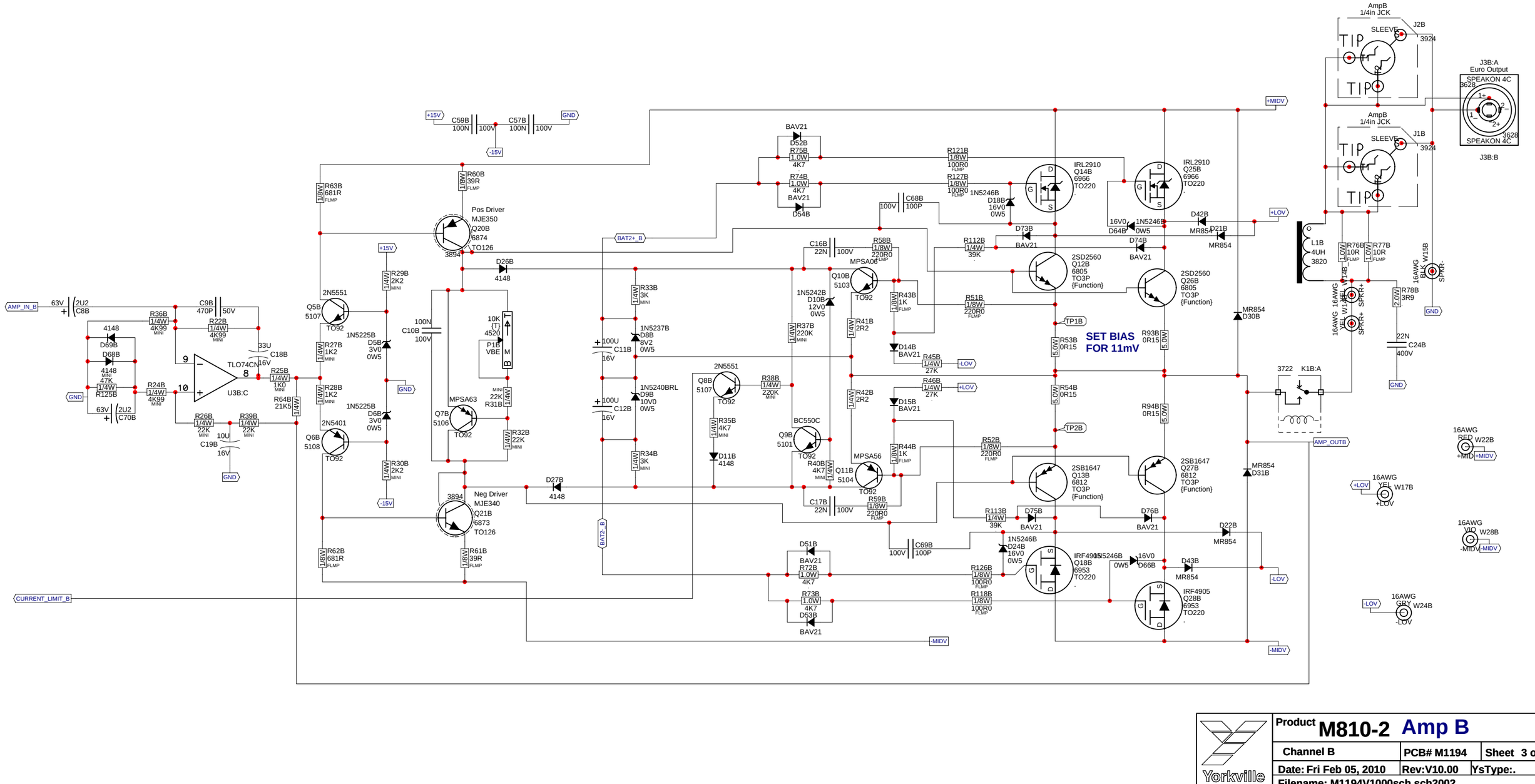


Product **M810-2**			
Ampln	**PCB# M1194**	**Sheet 1 of 4**	
Date: Fri Feb 05, 2010	**Rev:V10.00**	**YsType:.**	
Filename: M1194V1000sch.sch2002			

Yorkville



Yorkville	Product **M810-2** **Amp A**		
	Channel A	**PCB# M1194**	**Sheet 2 of 4**
	Date: Fri Feb 05, 2010	**Rev:V10.00**	**YsType:.**
	Filename: M1194V1000sch.sch2002		



Yorkville	Product **M810-2** **Amp B**		
	Channel B	PCB# M1194	Sheet 3 of 4
	Date: Fri Feb 05, 2010	Rev:V10.00	YsType:.
	Filename: M1194V1000sch.sch2002		

M1194.PCB_DATABASE_HISTORY

MODEL(S):- M810

#	DATE	VER#	DESCRIPTION OF CHANGE
1	10 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	1-APR-2004	1.10	PC#6674 Change R31A,B 15k-->22k (4979-->6118)
5	15-APR-2004	1.20	PC#6678 Chg. R5A,B 6k8->18k; R82A,B 5k6->3k3
6	D	V	R83A,B 56k->3k3; R80A,B, R81A,B 133k->100k
7	21-APR-2004	1.20	PC#6681 Modified route to let grn wire pass near power caps
8	6-MAY-2004	2.00	PC#6685 R80&R81(A,B) 100K->82K, ADDED D71, D72
9	JUN/17/2004	2.10	PC# 6707 Q12 (A+B) Q26 (A+B) TIP142 -> MJH11018
10	.	.	Q13 (A+B) , Q27 (A+B) TIP147 -> MJH11017
11	13 Sept, 2004	2.11	TC:PC#6763:Moved HS alignment hole to match HS
12	JAN-05-2005	4.00	PC#6808 R72,R73,R74,R75 FROM 10K0 1W TO 4K7 1W
13	.	.	D8 A/B 12V0 TO 8V2, D9A/B 14V0 TO 10V0, D10A/B 16V0
14	.	.	TO 12V0. ADD R112A/B, R113A/B (36K), D73A/B, D74A/B,
15	.	.	D75A/B, D76A/B (BAV21). R45A/B, R46A/B 36K TO 30K
16	.	.	REMOVE D16,D17,R47,R48,R49, R50 (ALL A/B)
17	.	.	ADD JUMPERS X1 TO X12
18	.	.	PC#6794: AC CLEARANCE FIX
19	MAR-24-2005	5.00	FIXED MASK SPREAD TO 30MIL
20	APR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
21	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
22	JUN-29-2005	6.00	PC#6920:GT:R106A/B #6122 33K->#4868 36K, D56A/B
23	.	.	#6440 4V7/0W5->#6484 10V1W, C32&C33#5903 12000U/

#	DATE	VER#	DESCRIPTION OF CHANGE
24	.	.	35V AND C36&C37#58964700/80V->#5898 8200U/50V
25	.	.	UPDATED BIAS NOTE TO READ 11mV, R45A/B&R46A/B
26	.	.	#4890 30K->#4833 27K, R112A/B&R113A/B #4868 36K->
27	.	.	#4853 39K, C25A/B #5224 47N/100V->#5212 100N/63V,
28	.	.	R79A/B #6127 470K->#6126 220K, SWAPPED W8 AND W35
29	19-JUN-2006	7.00	AH, PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	2008/09/23	8.00	Complete force update of pcb. Moved Q7a,b closer to xtrs.
32	.	.	Solder updates. Thickened traces to R74, R75. Added
33	.	.	NO RTV note to 5watt resistors. Added breaks near caps
34	.	.	and jacks - PC##7349. Flipped xtr spring screws
35	.	.	- PC#7624 and added fan connecter - PC#7628.
36	26-FEB-2008	.	PC7706, CHANGE #6779 WITH #6805 NPN AND CHANGE
37	.	.	#6802 WITH #6812 PNP
38	2009/09/24	9.00	PCs 7875, 7876 - Ribbon cable change - XTR screws flipped.
39	03-FEB-2010	.	PC7942,PC7980: Update 4xTO220-MTG, 2xTO218-MTG GG
40	05-FEB-2010	10.00	PC7983: Enlarge D2,D3,D4 span to .550 GG
41	D	V	N
42	D	V	N
43	D	V	N
44	D	V	N
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N

(E) DENOTES EUROPEAN

Yorkville	Product **M810-2**		
	Power Supply	PCB# M1194	Sheet 4 of 4
	Date: Fri Feb 05, 2010	Rev:V10.00	YsType:.
	Filename: M1194V1000sch.sch2002		

Top Assy M1194 V10.00

Pcb MechM1194 V10.00

BlankSize - 17900x10625 Wave Solder ---------->

Set P1 for 11mV between TP1 and TP2

Set P1 for 11mV between TP1 and TP2

BEC

LOC

M1194 1/2 M810-2 V10.00

M1194 2/2 V10.00

USE 2 OZ COPPER

SEE LAYOUT DOCUMENTATION

CLINCH ORIGIN

INSERT ORIGIN

Euro Output

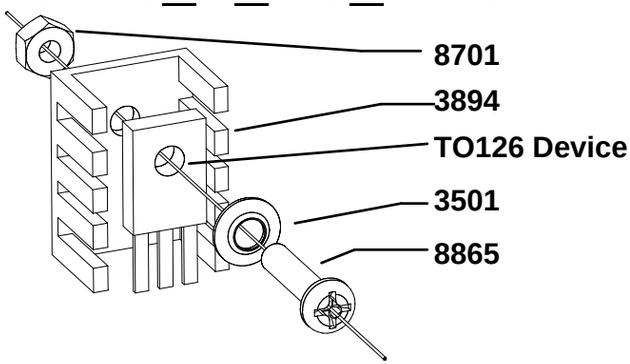
Euro Output

SEE LAYOUT DIAGRAM

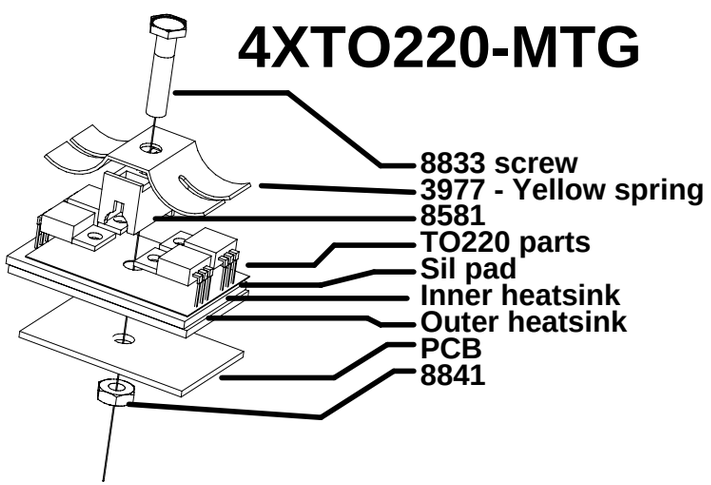
M1194 PRODUCTION NOTES

1. Use three 8829 screws to align and attach the heatsinks to the board.
2. When assembling heatsinks to Q20(A&B),Q21(A&B),Q37, ensure heatsinks are straight and sit flat against board. Add a very small amount of RTV between heatsink and board if necessary. This prevents the heatsink from shorting other components.
3. Add grease under middle tier mosfets.
4. No RTV under stones.

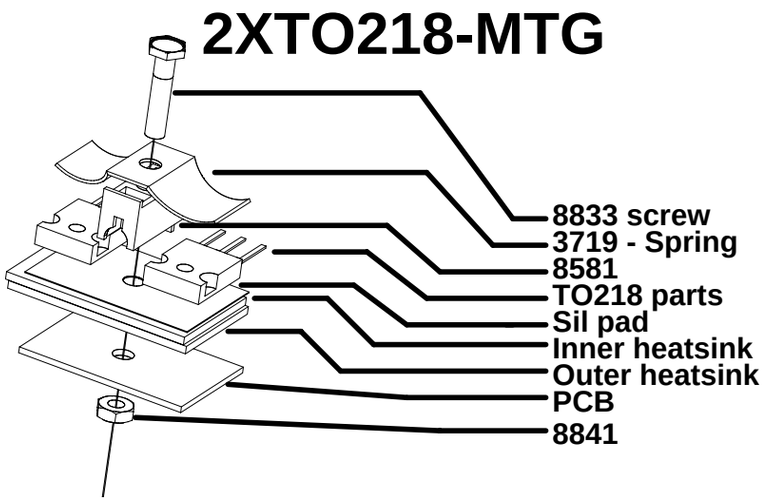
TO126_V_HS_MTG



4XTO220-MTG



2XTO218-MTG



SEE LAYOUT DIAGRAM

M1194.PCB_DATABASE_HISTORY

MODEL(S):- M810

#	DATE	VER#	DESCRIPTION OF CHANGE
1	10 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	1-APR-2004	1.10	PC#6674 Change R31A,B 15k-->22k (4979-->6118)
5	15-APR-2004	1.20	PC#6678 Chg. R5A,B 6k8->18k; R82A,B 5k6->3k3
6			R83A,B 56k->3k3; R80A,B, R81A,B 133k->100k
7	21-APR-2004	1.20	PC#6681 Modified route to let grn wire pass near power caps
8	6-MAY-2004	2.00	PC#6685 R80&R81(A,B) 100K->82K, ADDED D71, D72
9	JUN/17/2004	2.10	PC# 6707 Q12 (A+B) Q26 (A+B) TIP142 -> MJH11018
10	.	.	Q13 (A+B) , Q27 (A+B) TIP147 -> MJH11017
11	13 Sept, 2004	2.11	TC:PC#6763:Moved HS alignment hole to match HS
12	JAN-05-2005	4.00	PC#6808 R72,R73,R74,R75 FROM 10K0 1W TO 4K7 1W
13	.	.	D8 A/B 12V0 TO 8V2, D9A/B 14V0 TO 10V0, D10A/B 16V0
14	.	.	TO 12V0. ADD R112A/B, R113A/B (36K), D73A/B, D74A/B
15	.	.	D75A/B, D76A/B (BAV21). R45A/B, R46A/B 36K TO 30K
16	.	.	REMOVE D16,D17,R47,R48,R49, R50 (ALL A/B)
17	.	.	ADD JUMPERS X1 TO X12
18	.	.	PC#6794: AC CLEARANCE FIX
19	MAR-24-2005	5.00	FIXED MASK SPREAD TO 30MIL
20	APR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
21	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
22	JUN-29-2005	6.00	PC#6920:GT:R106A/B #6122 33K->#4868 36K, D56A/B
23	.	.	#6440 4V7/0W5->#6484 10V1W, C32&C33#5903 12000U/
24	.	.	35V AND C36&C37#58964700/80V->#5898 8200U/50V
25	.	.	UPDATED BIAS NOTE TO READ 11mV, R45A/B&R46A/B
26	.	.	#4890 30K->#4833 27K, R112A/B&R113A/B #4868 36K->
27	.	.	#4853 39K, C25A/B #5224 47N/100V->#5212 100N/63V,
28	.	.	R79A/B #6127 470K->#6126 220K, SWAPPED W8 AND W35
29	19-JUN-2006	7.00	AH, PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	2008/09/23	8.00	Complete force update of pcb. Moved Q7a,b closer to xtrs.
32	.	.	Solder updates. Thickened traces to R74, R75. Added
33	.	.	NO RTV note to 5watt resistors. Added breaks near caps
34		.	and jacks - PC##7349. Flipped xtr spring screws
35	.	.	- PC#7624 and added fan connecter - PC#7628.
36	26-FEB-2008	.	PC7706, CHANGE #6779 WITH #6805 NPN AND CHANGE
37	.	.	#6802 WITH #6812 PNP
38	2009/09/24	9.00	PCs 7875, 7876 - Ribbon cable change - XTR screws flipped.
39	03-FEB-2010	.	PC7942,PC7980: Update 4xTO220-MTG, 2xTO218-MTG GG
40	05-FEB-2010	10.00	PC7983: Enlarge D2,D3,D4 span to .550 GG
41	D	V	N
42	D	V	N
43	D	V	N
44	D	V	N
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N

DRILL & ROUTE HISTORY

MODEL(S):- M810

#	DATE	VER#	DESCRIPTION OF CHANGE
1	10-MAR-2004	V02	Enlarged routing for hex nuts
2	5-MAY-2004	V03	Added notch to routing to pass GRN wire from front
3	6-MAY-2004	V04	To match v2.00 changes
4	JAN-05-2005	V05	PC#6763 MOVE TOP LEFT HEATSINK LINE-UP HOLE
5	20 Apr,2005	5.11	Corrected 'BlankSize' field for clinch program
6	.	.	Corrected pad orientations on 4520, 5840 and 3722
7	2008/09/23	13	Solder updates, several PCs. New drill and route.
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

M1194 PENDING CHANGES

MODEL(S):- M810

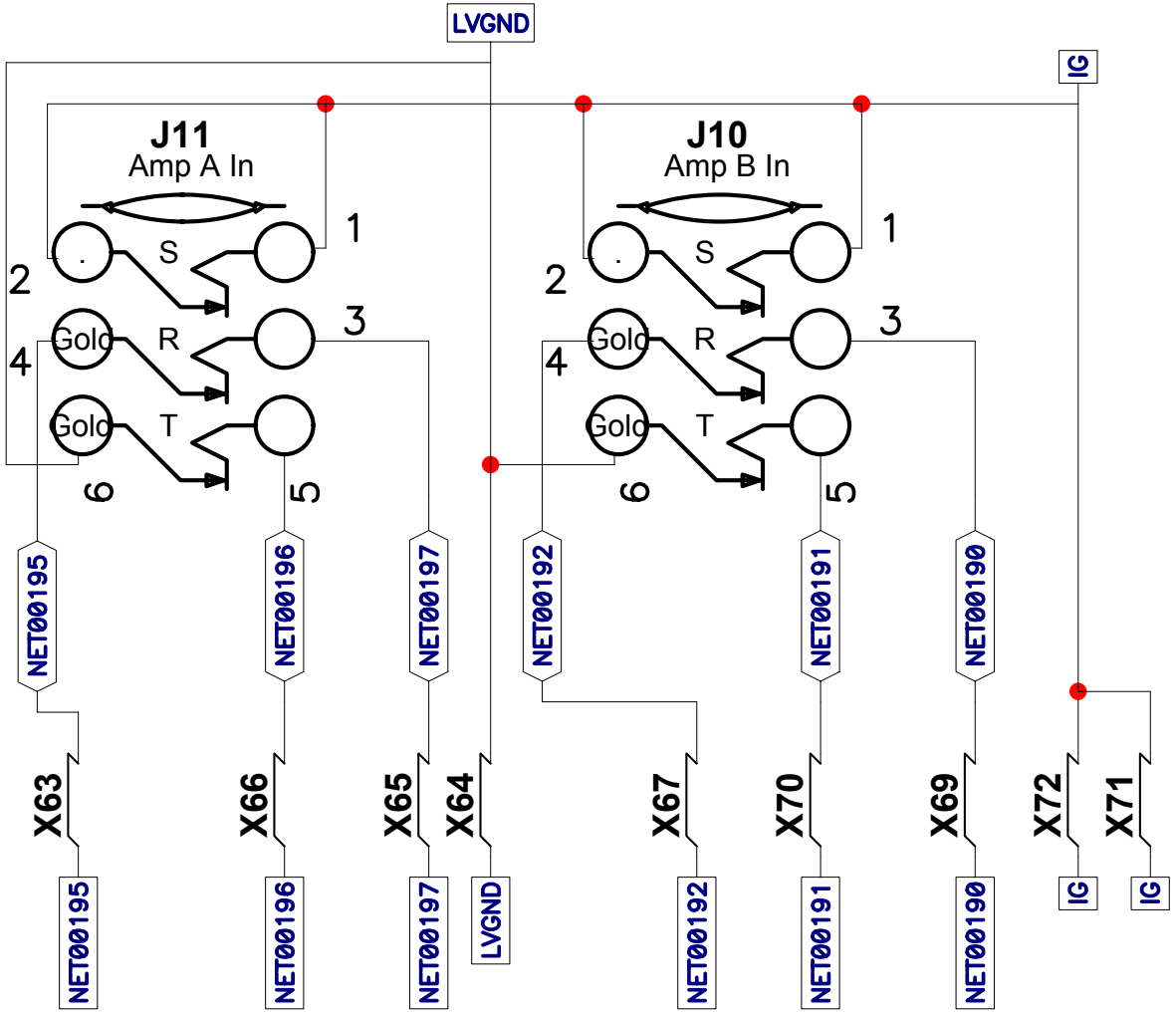
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

M810/M1610
Series 2

24 BIT DIGITAL EFFECTS

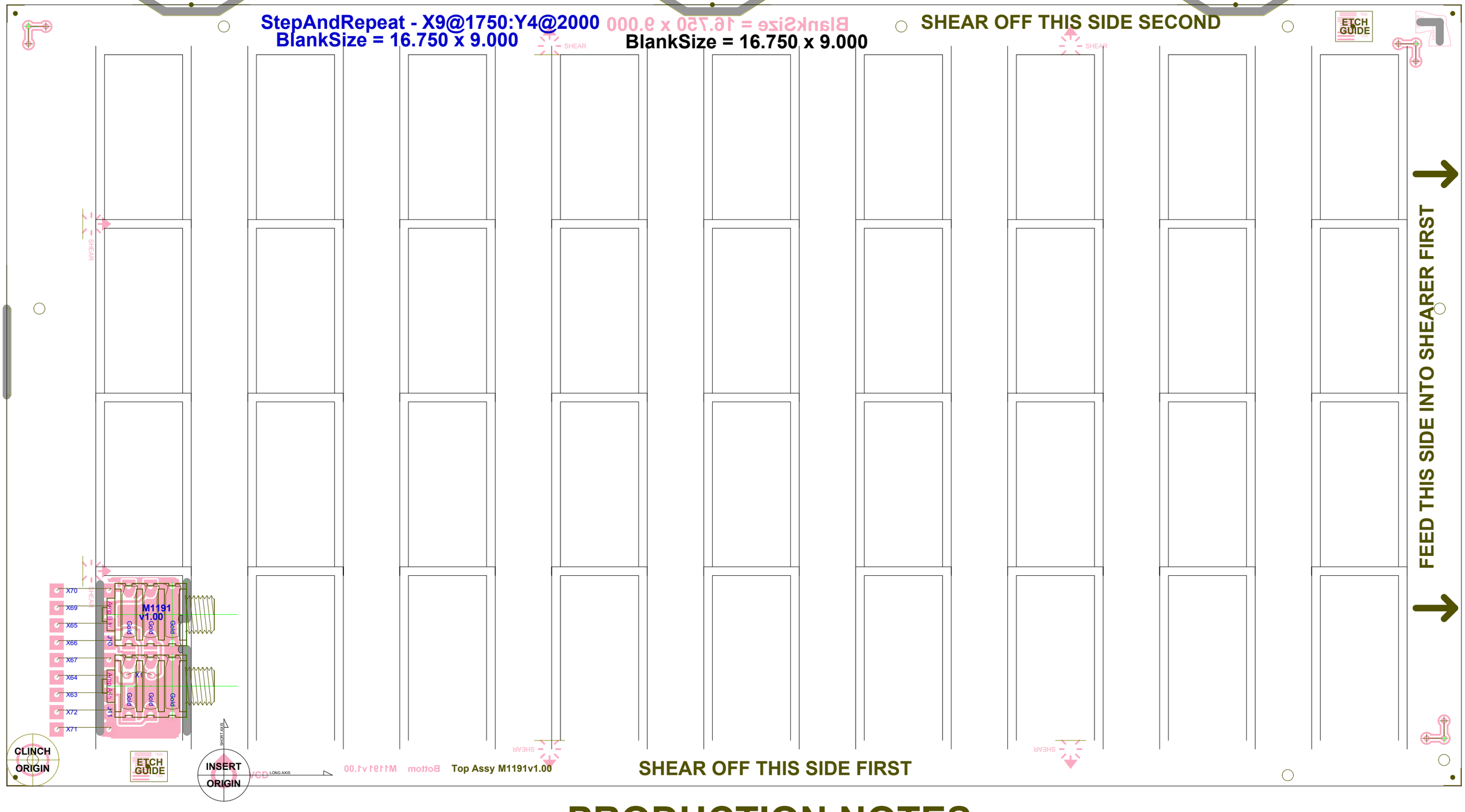
Effect	Modify	Effect	Modify
1. Room Reverb	decay	9. Fast Echo	decay
2. Hall Reverb	decay	10. Short Decay Echo	delay
3. Hall Reverb - Vocals		11. Long Decay Echo	
4. Hall Reverb w/Echo		12. Chorus	rate
5. Plate Reverb	decay	13. Flanger	
6. Plate Reverb - Vocals		14. Rotary Speaker	
7. Plate Reverb w/Echo		15. Distortion	gain
8. Gated Reverb	decay	16. Harmonizer	pitch



Yorkville

Product **M1610**

Amp in Jacks	PCB# M1191	Sheet 1 of 2
Date: Tue Feb 10, 2004	Rev:V1.00	
Filename: m1191 sch .sch2002		



PRODUCTION NOTES

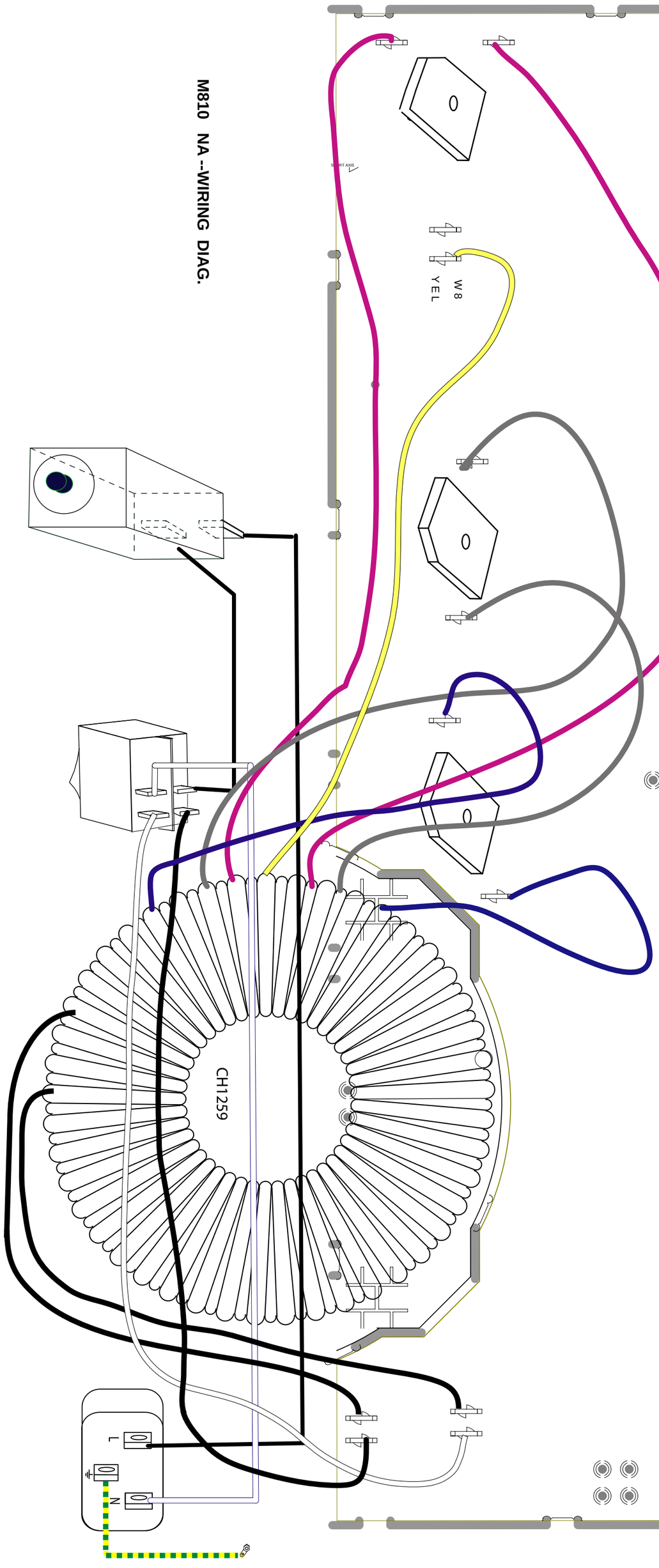
1. Shear off sides containg VCD origin and VCD finger tabs (top and bottom sides) before shearing the board into rows.
2. Feed board into shearer in the direction shown.
3. DO NOT remove the strip of board attached to each set of jumpers. It will keep the jumpers straight until they arrive in wiring.

- YS#9920 White Knob (qty: 9)
- YS#9921 Gray Knob, no cover (qty: 6)
- YS#9915 Red Knob (qty: 2)
- YS#9916 Gray Knob (qty: 29)
- YS#9918 Blue Knob (qty: 10)
- YS#9917 Green Knob (qty: 9)
- YS#9919 Yellow Knob (qty: 8)
- YS#8397 Large Gray Knob (qty: 1)

Blank Size - 17900 x 10625

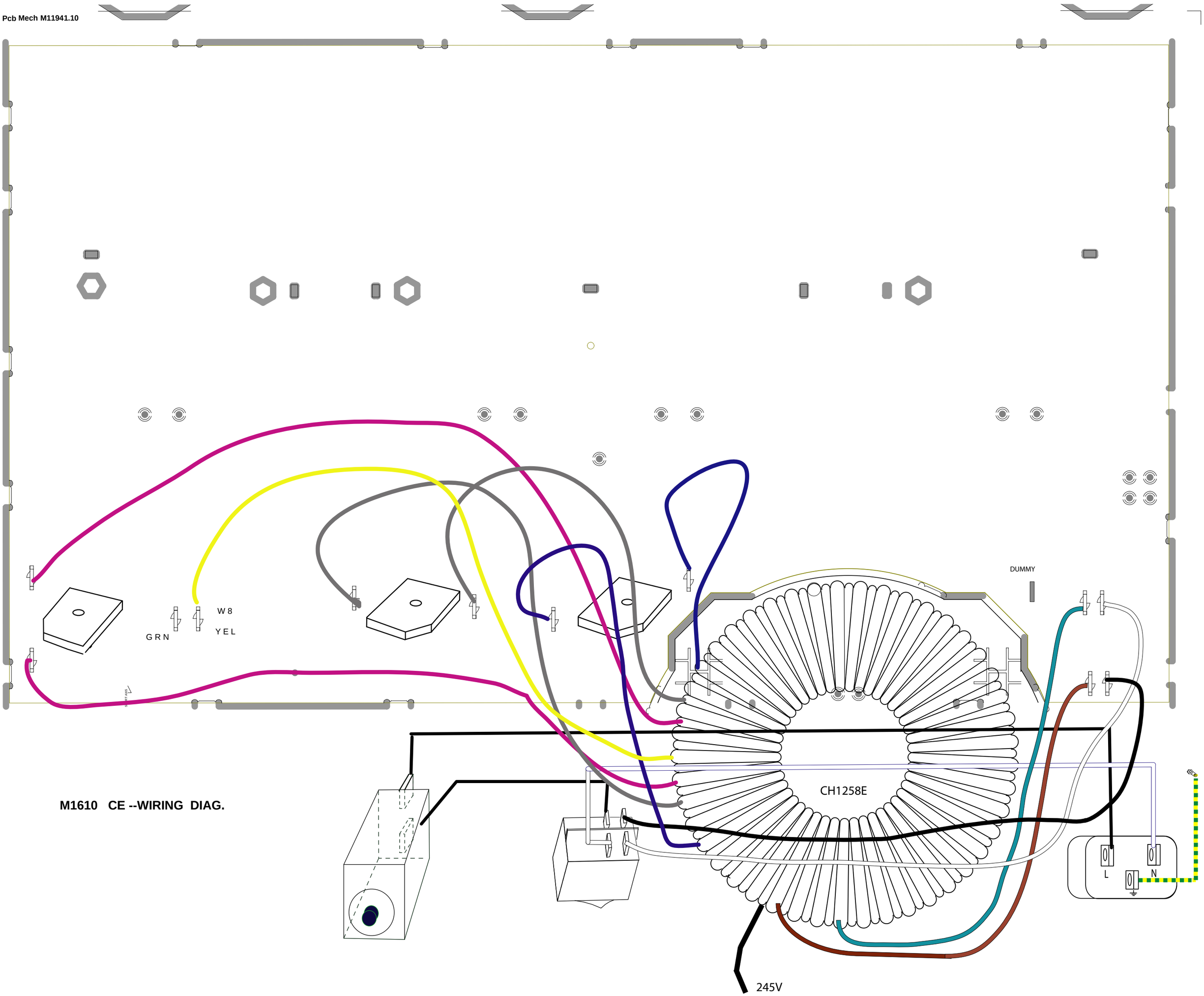
Pcb Mech M11941.10

M810 NA --WIRING DIAG.



Pcb Mech M11941.10

Blank Size - 17900 x 10625

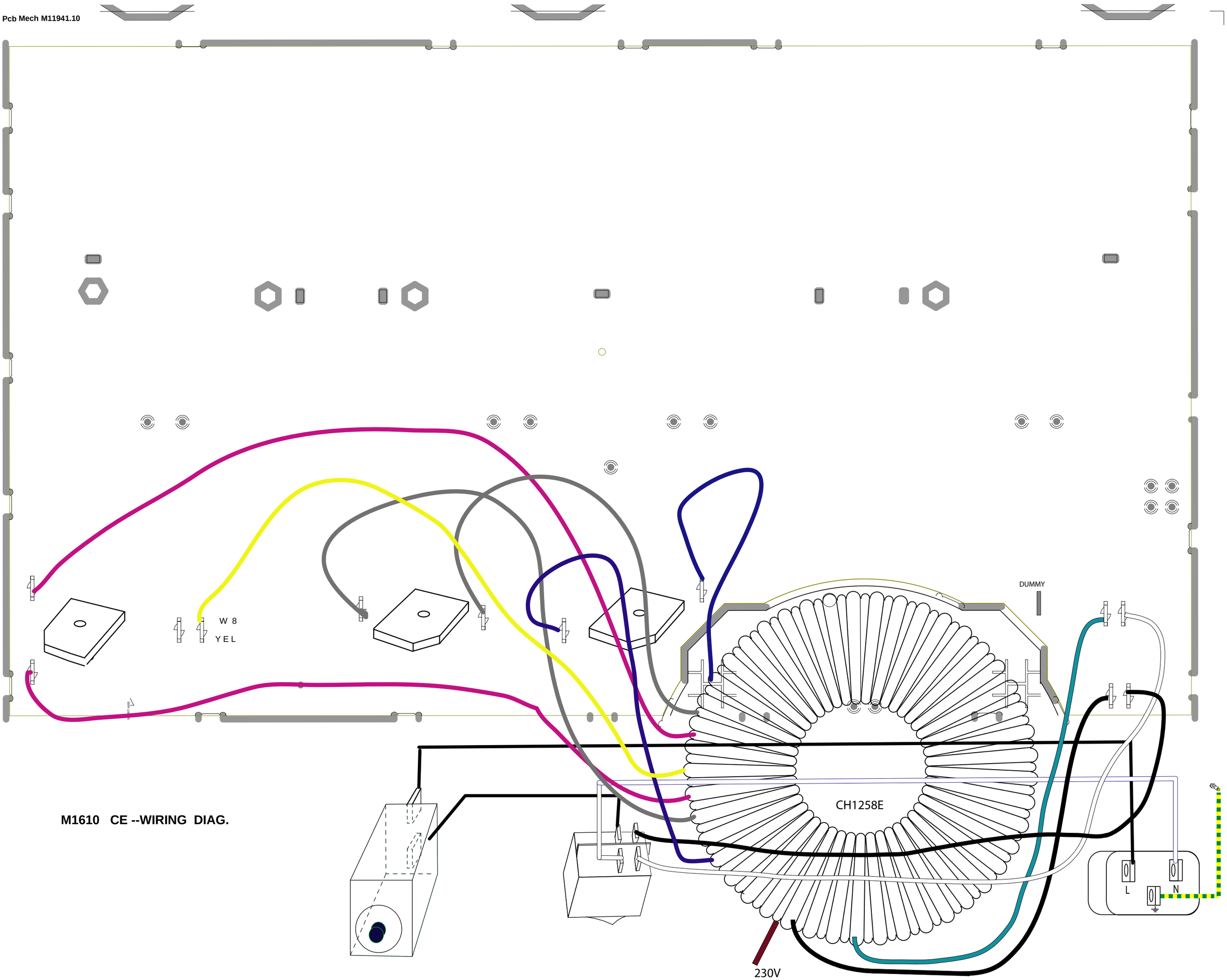


M1610 CE --WIRING DIAG.

SHOWN AS 230V OPERATION

Pcb Mech M11941.10

Blank Size - 17900 x 10625



M1610 CE --WIRING DIAG.

SHOWN AS 245V OPERATION
FOR 245V: USE BLUE AND BLACK PRIMARY WIRES