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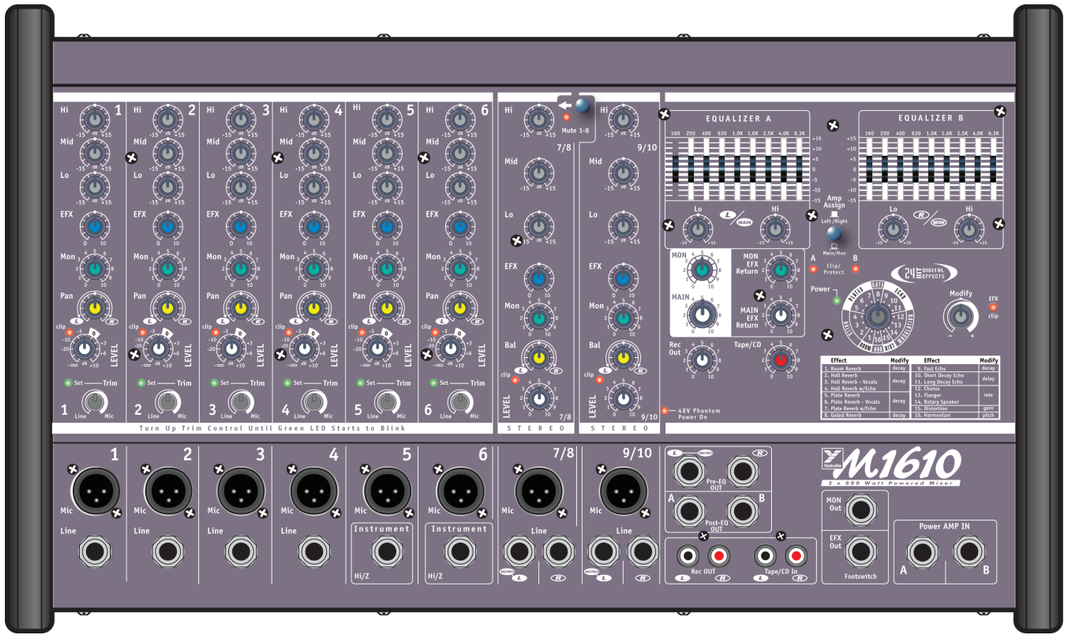
Quality and Innovation Since 1963
Printed in Canada

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.

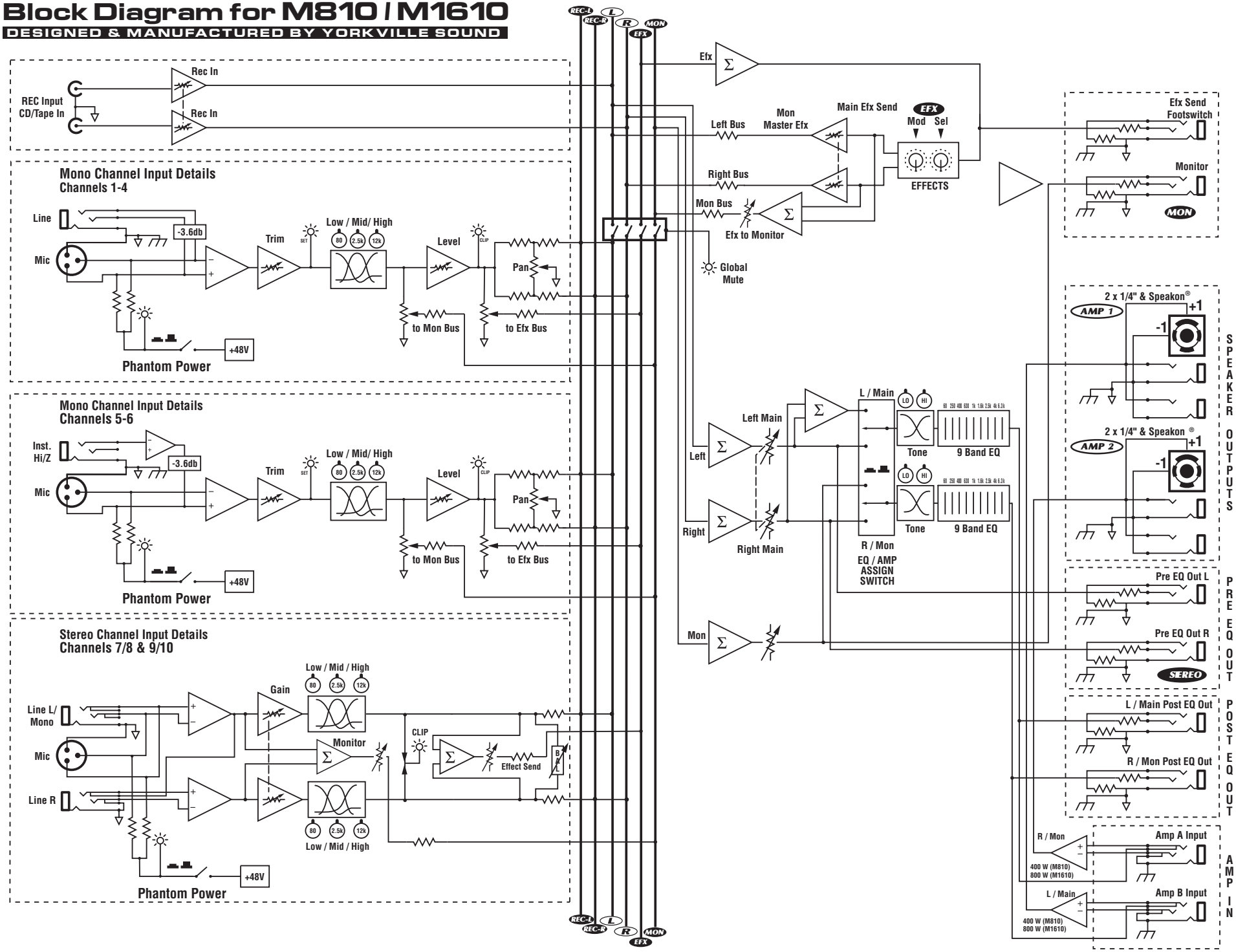
Les dispositifs marqués d'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connection extérieure doivent être effectivés par un opérateur formé ou en utilisant des cordons déjà préparés.

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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5908	GRN 3MM LED 1V9 20MA .4SPCER T&R	7
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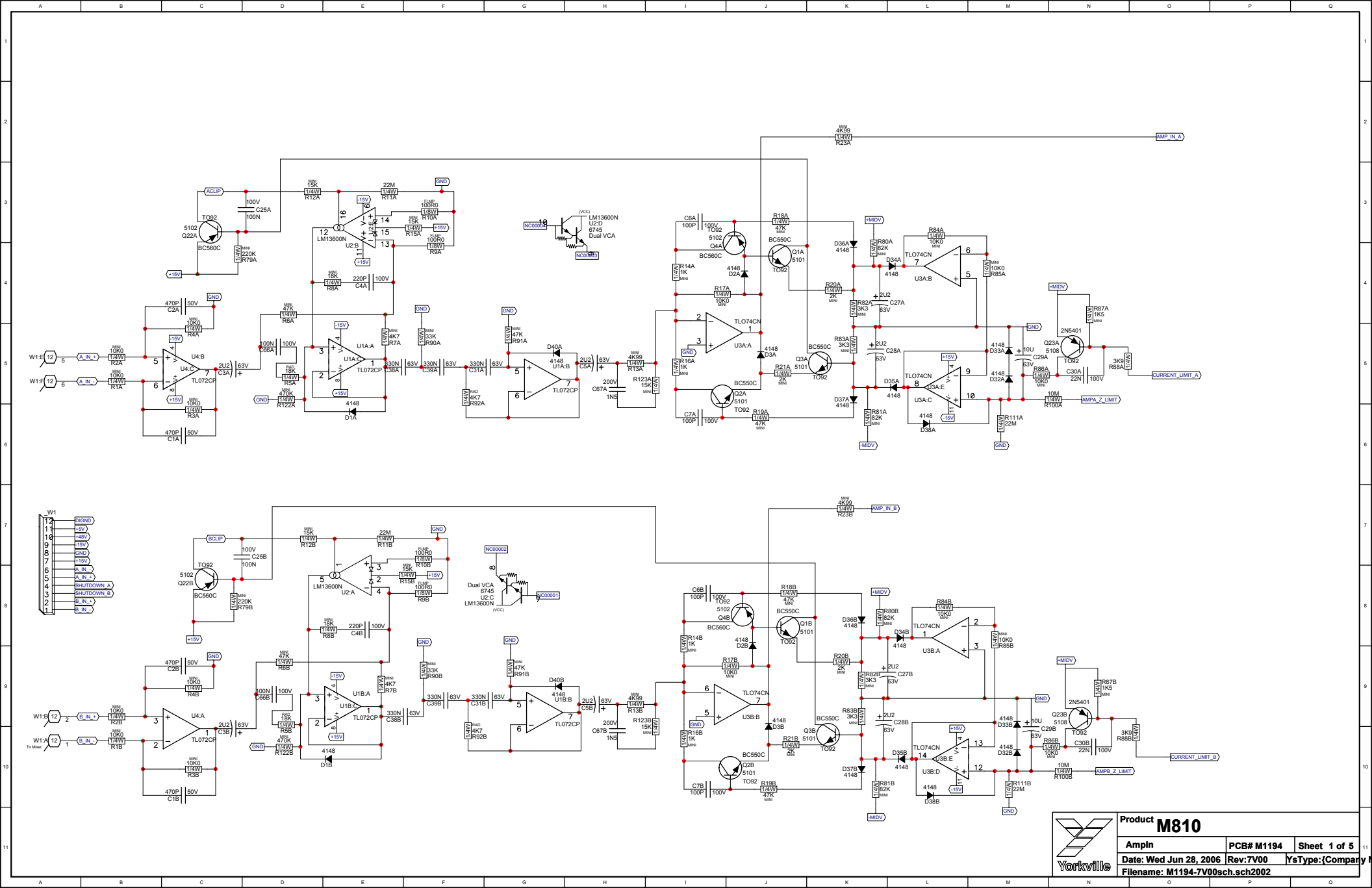
6425	BAV21 200V 0A25 DIODE T&R	20
6825	1N4148 75V 0A45 DIODE T&R	90
6438	1N4007 400V 1A0 DIODE T&R	1
6934	MR854 400V 3A0 DIODE FASREC	20
6733	BAT85 30V 0A2 DIODE SCHTKYT&R	4
6439	1N5225B 3V0 0W5 ZENER 5% T&R	4
6440	1N750ARL 4V7 0W5 ZENER 5% T&R	2
6436	1N753ARL 6V2 0W5 ZENER 5% T&R	1
6437	1N5237B 8V2 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 Series 2 Parts List 4/24/2008

YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
5906	RED 3MM LED 1V9 20MA.4SPCER T&R	13	5896	4700U 80V 20%CAP BLK 25X50MM ELS	4	2028	1/8W 475R 1%FLAME PROOF T&R RES	2	7786	CD4052B IC DUAL 4CHANNEL MUX SMT	1
5908	GRN 3MM LED 1V9 20MA.4SPCER T&R	7	5898	8200U 50V 20%CAP 25X50MM ELS	4	4799	1/4W 562R 1% T&R RES	4	7818	LM1117 REGULATOR 3V3 SOT-223	1
6419	BRIDGE 35A 400V WIRE LEAD GI3504	2	6578	ROT BIN 18MM 4BIT ENCODER P23	1	4922	1/4W 620R 5% .2"U T&R RES	8	7853	W250 100R 5% 1206 SMT RES	2
6425	BAV21 200V 0A25 DIODE T&R	20	4431	_10K 5C R/A 12MM STEREO P34	2	5019	1/4W 620R 5%MINI T&R RES	14	7882	W063 0R 1% 1206 SMT RES	1
6438	1N4007 1000V 1A0 DIODE T&R	1	4432	_10K B LIN 9MM P32	6	2030	1/8W 681R 1%FLAME PROOF T&R RES	16	7912	FV-1 SPIN SEMI REVERB CHIP IC	1
6825	1N4148 75V 0A45 DIODE T&R	89	4434	_10K B LIN 9MM DETENT P32	21	4923	1/4W 680R 5% .2"U T&R RES	4	7913	32KHZ CRYSTAL SMT 4-PIN FSRLF	1
6934	MR854 400V 3A0 DIODE FASREC	12	4438	_10K B LIN 12MM STEREO DETENTP34	4	4924	1/4W 750R 5% .2"U T&R RES	6	7932	07 PIN 25SQ 100 PIN SMT SIL	1
5124	1N5338B 5V1 5W0 ZENER 5% T&R	3	4426	_20K 4B LIN 9MM P32	1	2031	1/8W 820R 5%FLAME PROOF T&R RES	4	7933	08 PIN 25SQ 100 PIN SMT SIL	1
6436	1N753ARL 6V2 0W5 ZENER 5% T&R	1	4447	_20K 15A AUD 12MM STEREO P34	1	2033	1/8W 1K 2%FLAME PROOF T&R RES	4	7934-PRO	24LC32A SER EEPROM M1-U3 YS DFX	1
6437	1N5237B 8V2 0W5 ZENER 5% T&R	5	4433	_50K B LIN 9MM P32	15	4981	1/4W 1K 5%MINI T&R RES	13	7935-PRO	24LC32A SER EEPROM M1-U4 YS DFX	1
6439	1N5225B 3V0 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	3663	SNAP IEC PWR SOC W/.250TAB FOR .060	1
6450	1N5242B 12V0 0W5 ZENER 5% T&R	4	4437	_50K B LIN 12MM STEREO P34	2	4585	1/4W 1K2 5%MINI T&R RES	25	3859	1/2 PLASTIC HEX SPACER #4	15
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	4	4439	_50K B LIN 12MM STEREO DETENTP34	2	4988	1/4W 1K5 5%MINI T&R RES	25	8657	6-32 X 3/8" HEX SPACER ALUMINUM	7
6465	1N5250B 20V0 0W5 ZENER 5% T&R	1	4441	_50K 4B LIN 12MM STEREO P34	1	6113	1/4W 2K 5%MINI T&R RES	4	8682	#4 TEFLON WASHER .125ID .281OD .031	6
6475	1N5262B 51V0 0W5 ZENER 5% T&R	1	4443	100K 5C R/A 9MM P32	8	6104	1/4W 2K2 5%MINI T&R RES	6	8482	3/8 1D FLAT WASHER	16
6484	1N4740A 10V0 1W0 ZENER 5% T&R	2	3998	_20K 1B LIN 20MM DETENT S04	18	4864	1/4W 2K7 5% T&R RES	2	8818	3/4 OD X 3/8 ID X .080 THICK WASHER	2
6738	MC7805CT TO220 P 5V0 REG V1	1	4520	_10K TRIM POT	2	6124	1/4W 3K 5%MINI T&R RES	4	3511	#6 FLAT WASHER NYLON	15
6824	1N5246B 16V0 0W5 ZENER 5% T&R	8	2408	_8.00 AMP CIRCUIT BREAKER	1	6136	1/4W 3K3 5%MINI T&R RES	4	8485	#6 SPLIT WASHER ZINC	2
6871	MC7915CT TO220 N 15V0 REG V2	1	3820	___4UH COIL 14AWG ZOBEL HORIZONTAL	2	4814	1/4W 3K6 5% T&R RES	1	3524	NYLON SH/WASHER ID385 OD750 T060	4
6872	MC7815CT TO220 P 15V0 REG V1	1	8497	M1610/M810 GABLE	2	5028	1/4W 3K74 1% T&R RES	4	3577	FIBER WASHER .625OD .380ID .03	4
5101	BC550C TO92 NPN TRAN T&R TB	17	3489	CLIP 250X032 18-22AWG DISCO/INSL	1	4850	1/4W 3K9 5% T&R RES	2	3440	4PDT MINI VERT ALT SWITCH	1
5102	BC560C TO92 PNP TRAN T&R TB	38	3490	CLIP 250X032 14-16AWG DISCO/INSL	11	4774	1/4W 4K12 1% T&R RES	4	3522	DPDT MINI PC VERT SNP ALT	2
5103	MPSA06 TO92 NPN TRAN T&R TA	4	3601	RING TERMINAL 16AWG WIRE & #8 SCREW	1	4681	1.0W 4K7 5% T&R RES	8	3587	DPDT ROKR SW QUIK 250"AC/PWR ON-OFF	1
5104	MPSA56 TO92 PNP TRAN T&R TA	2	3682	250 MALE PCB TAB REEL	11	4943	1/4W 4K7 5% .2"U T&R RES	2	CH1301	M810 POWER TRFMR T'RD	1
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			
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			
5107	2N5551 TO92 NPN TRAN T&R TA	4	3924	1/4" JCK PCB MT VERT 2XTIP HICURNT	4	6121	1/4W 6K98 1%MINI MF T&R RES	4			
5108	2N5401 TO92 PNP TRAN T&R TA	4	3466	RCA DUAL PCB MT VERT GOLD 24MM	2	4926	1/4W 7K5 5% .2"U T&R RES	18			
6774	BD139 TO126 NPN TRAN TG	1	3628	SPKON 4C PCB MT VERT 250TAB GRY #4	2	4990	1/4W 8K2 5%MINI T&R RES	2			
6779	MJH11018(22) TO218 NPN TRAN DARL TI	4	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	8	4983	1/4W 10K 5%MINI T&R RES	96			
6802	MJH11017(23) TO218 PNP TRAN DARL TI	4	3451	EYELET SMALL 0.089 OD PLATED	31	6116	1/4W 10K0 1%MINI MF T&R RES	80			
6873	MJE340 TO126 NPN TRAN TG	2	3856	FAN 80MM X 80MM 39CFM 12VDC 200MA	2	4630	1/2W 15K 5% T&R RES	4			
6874	MJE350 TO126 PNP TRAN TG	2	3894	AAVID 5972-B H/S W/TAB B.O.	5	4979	1/4W 15K 5%MINI T&R RES	28			
6916	TIP107 TO220 PNP TRAN DARL TE	1	3501	B52200F006 COMP WASH #4 SMALL	3	4954	1/4W 18K 5% .2"U T&R RES	12			
6953	IRF4905 TO220 PCH MFET	4	3719	DUAL XSISTOR TO218 SPRING YEL PLTD	4	6125	1/4W 18K 5%MINI T&R RES	2			
6966	IRL2910 NCH MFET 100V TN	4	3977	QUAD XSISTOR TO220SPRING YELLOWZINC	3	6123	1/4W 20K0 1%MINI MF T&R RES	5			
6745	LM13600N IC XCONDUCTANCE AMP	4	8889	RUBBER GROMMET #2183-034-BLK	1	4777	1/4W 21K5 1% T&R RES	2			
6804	MC33079P IC QUAD OP AMP	4	3801	5/8" BUMPER BUTTON BLACK	1	6118	1/4W 22K 5%MINI T&R RES	19			
6882	TL072CP IC FET DUAL OP AMP	15	3810	4" NYLON CABLE TIE	8	4833	1/4W 27K 5% T&R RES	4			
6889	TL074CN IC QUAD O/A T.I ONLY	11	8397	KNOB STYLE 2 GREY	2	6129	1/4W 27K 5%MINI T&R RES	7			
6467	_10K 10% THERMISTOR TO-92 NTC	2	8632	KNOB ROUND PUSHBUTTON 1/4" GREY	2	6122	1/4W 33K 5%MINI T&R RES	13			
5199	100P 100V 2%CAP T&R RAD CER.2"NPO	8	8637	ROUND PUSH BUTTON 1/4" BLK 24MM	1	4868	1/4W 36K 5% T&R RES	2			
5408	_47P 100V 10%CAP T&R BEAD NPO	33	9915	KNOB 0-DEG RED SOFT GRAY RIB	2	4853	1/4W 39K 5% T&R RES	4			
5412	220P 100V 10%CAP T&R BEAD NPO	14	9916	KNOB 0-DEG GRY SOFT GRAY RIB	28	4927	1/4W 47K 5% .2"U T&R RES	4			
5208	__2N2 400V 5%CAP T&R RAD .2"FLM	5	9917	KNOB 0-DEG GRN SOFT GRAY RIB	9	6119	1/4W 47K 5%MINI T&R RES	26			
5273	__1N5 200V 5%CAP T&R RAD CER.2"NPO	16	9918	KNOB 0-DEG BLU SOFT GRAY RIB	10	4928	1/4W 56K 5% .2"U T&R RES	14			
5275	__3N3 100V 5%CAP T&R RAD .2"FLM	2	9919	KNOB 0-DEG YEL SOFT GRAY RIB	8	6139	1/4W 62K 5%MINI T&R RES	6			
5276	__3N3 200V 5%CAP T&R RAD CER.2"NPO	4	9920	KNOB 0-DEG WHT SOFT GRAY RIB	9	4586	1/4W 82K 5%MINI T&R RES	4			
5416	470P 50V 10%CAP T&R BEAD NPO	6	9921	KNOB 0-DEG GRY W/O COVERING	6	4929	1/4W 82K 5% .2"U T&R RES	14			
5422	__1N 50V 10%CAP T&R BEAD NPO	20	3426	8' 3/16 SJT AC LINE CORD REMOVB-CSA	1	6120	1/4W 100K 5%MINI T&R RES	1			
5204	_10N 100V 10%CAP T&R RAD .2"FLM	2	3638	12 CIR CABLE HOLDER .098	1	4991	1/4W 133K 1%MINI T&R RES	12			
5205	_15N 100V 10%CAP T&R RAD .2"FLM	4	6581	07 SKT 25SQ 100 SIL TOP-ENTRY	1	4796	1/4W 180K 5%MINI T&R RES	4			
5207	_18N 100V 5%CAP T&R RAD .2"FLM	6	6582	08 SKT 25SQ 100 SIL TOP-ENTRY	1	6126	1/4W 220K 5%MINI T&R RES	14			
5209	__4N7 250V 5%CAP T&R RAD .2"FLM	4	8701	4-40 KEPS NUT ZINC	3	6127	1/4W 470K 5%MINI T&R RES	2			
5210	_22N 100V 10%CAP T&R RAD .2"FLM	26	8800	6-32 KEPS NUT ZINC	13	4948	1/4W 1M 5% .2"U T&R RES	2			
5222	_33N 100V 10%CAP T&R RAD .2"FLM	10	8841	10-32 KEPS NUT TIN PLATED	7	4951	1/4W 4M7 5% .2"U T&R RES	7			
5224	_47N 100V 10%CAP T&R RAD .2"FLM	4	8797	5/16-18 KEPS NUT JS500	1	6132	1/4W 8M2 5%MINI T&R RES	6			
5840	_22N 400V 10%CAP BLK RAD POLY FLM	2	4022	ELASTOMER PAD - 2-TO218 / 4-TO220	7	4809	1/4W 10M 5% T&R RES	2			
6435	_22N 275V 20%CAP BLK 'X2' 15MM AC	1	8581	CUSTOM PBL TRANSISTOR SPACER	7	4751	1/4W 22M 5% T&R RES	10			
6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC	1	3580	12 CIR WAFER W/LCK VT 0.1"	1	3519	28" 12C-26AWG RIB 1 W/LCK HDR 098	1			
5212	100N 63V 5%CAP T&R RAD .2"FLM	37	4597	22AWG STRAN TC WIR JMP	15	3722	RELAY 1A 30AMP DC24 036MA PC-C	2			
5226	_68N 100V 5%CAP T&R RAD .2"FLM	2	4599	22AWG SOLID SC WIR T&R JMP	233	8865	4-40 X 5/16 PAN PH MS JS500	33			
5229	150N 63V 10%CAP T&R RAD .2"FLM	2	5299	24AWG SOLID SC WIR RAD JMP	4	8729	#4 X 3/8 FLAT QUAD TYPE A JS500 BLK	4			
5231	220N 63V 10%CAP T&R RAD .2"FLM	2	4749	5.0W 0R15 5% BLK RES	8	8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	18			
5233	330N 63V 5%CAP T&R RAD .2"FLM	8	2006	1.0W 1R 5%FLAME PROOF T&R RES	2	8831	6-32 X 1/4 PAN PH TAPTITE ZN	2			
5234	470N 63V 10%CAP T&R RAD .2"FLM	2	4911	1/4W 2R2 5% T&R RES	4	8832	6-32 X 1/4 PAN PH TAPTITE JS500	24			
5314	100N 50V 10%CAP T&R BEAD X7R	7	4748	2.0W 3R9 5% T&R	2	8801	6-32 X 3/8 PAN PH TAPTITE JS500	4			
5318	220N 50V 10%CAP T&R BEAD X7R	1	2008	1.0W 10R 5%FLAME PROOF T&R RES	4	8823	6-32 X 1 PAN PH TAPTITE JS500	3			
5257	__2U2 63V 20%CAP T&R RAD .2"EL	12	4605	1/8W 10R 5% T&R RES	3	8809	10-32 X 1/4 PAN PH TAPTITE JS500	8			
5258	__4U7 63V 20%CAP T&R 8X7MM .2"EL	20	4709	5.0W 22R 5% BLK RES	1	8833	10-32 X 7/8 IND HEX M/S BLACK OXIDE	7			
5266	680N 250V 20%CAP BLK 'X2' 30MM AC		2016	1/8W 39R 2%FLAME PROOF T&R RES	4	8893	10-32 X 1 FLAT PHILIPS TT JS500 BLK	10			
7769	1U 50V 20%CAP 4.3X3.9 SMT ELC	5	6134	1/4W 47R 5%MINI T&R RES	6	8733	5/16-18X2-1/2 GRD 5 HEX BOLT JS500	1			
5260	_22U 50V 20%CAP T&R RAD .2"EL	1	2019	1/8W 100R0 1%FLAME PROOF T&R RES	12	7613	100N 25V 10%CAP 0805 SMT X7R	5			
5282	_10U 16V 20%CAP T&R 5X7MM .2"NP	32	4602	1/8W 100R 5% T&R RES	29	7621	0.1W 1K0 1% 0805 SMT RES	4			
5631	_22U 50V 20%CAP T&R 6X7MM .2"EL	12	4921	1/4W 100R 5% .2"U T&R RES	18	7625	0.1W 10K0 1% 0805 SMT RES	5			
5945	_10U 63V 20%CAP T&R RAD .2"EL	3	4984	1/4W 150R 5%MINI T&R RES	3	7634	0.1W 20K5 1% 0805 SMT RES	2			
5961	_33U 16V 20%CAP T&R RAD .2"NP	17	2023	1/8W 220R0 1%FLAME PROOF T&R RES	8	7693	__1N 50V 5%CAP SMT NPO	2			
7810	47U 16V 20%CAP 6X5.4 SMT ELE	2	4977	1/4W 220R 5%MINI T&R RES	11	7766	15P 50V 5%CAP 0603 SMT NPO	1			
5618	470U 25V 20%CAP BLK 10X15MM EL	1	2024	1/8W 249R 2%FLAME PROOF T&R RES	4	7781	W063 49R9 1% 0603 SMT RES	1			
5879	100U 16V 20%CAP T&R 8X7MM .2"EL	15	4980	1/4W 470R 5%MINI T&R RES	28	7783	__2N7 100V 10%CAP 0805 SMT C0G	2			

M1610 Series 2 Parts List 4/24/2008

YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
5906	RED 3MM LED 1V9 20MA.4SPCER T&R	13	5896	4700U 80V 20%CAP BLK 25X50MM ELS	4	4977	1/4W 220R 5%MINI T&R RES	11	7621	0.1W 1K0 1% 0805 SMT RES	4
5908	GRN 3MM LED 1V9 20MA.4SPCER T&R	7	5898	8200U 50V 20%CAP 25X50MM ELS	8	2024	1/8W 249R 2%FLAME PROOF T&R RES	4	7625	0.1W 10K0 1% 0805 SMT RES	5
6419	BRIDGE 35A 400V WIRE LEAD GI3504	3	6578	ROT BIN 18MM 4BIT ENCODER P23	1	4980	1/4W 470R 5%MINI T&R RES	28	7634	0.1W 20K5 1% 0805 SMT RES	2
6425	BAV21 200V 0A25 DIODE T&R	28	4431	_10K 5C R/A 12MM STEREO P34	2	2028	1/8W 475R 1%FLAME PROOF T&R RES	2	7693	__1N 50V 5%CAP SMT NPO	2
6438	1N4007 1000V 1A0 DIODE T&R	1	4432	_10K B LIN 9MM P32	6	4799	1/4W 562R 1% T&R RES	4	7766	15P 50V 5%CAP 0603 SMT NPO	1
6825	1N4148 75V 0A45 DIODE T&R	89	4434	_10K B LIN 9MM DETENT P32	21	4922	1/4W 620R 5% .2"U T&R RES	8	7781	W063 49R9 1% 0603 SMT RES	1
6934	MR854 400V 3A0 DIODE FASREC	20	4438	_10K B LIN 12MM STEREO DETENTP34	4	5019	1/4W 620R 5%MINI T&R RES	14	7783	__2N7 100V 10%CAP 0805 SMT C0G	2
6436	1N753ARL 6V2 0W5 ZENER 5% T&R	1	4426	_20K 4B LIN 9MM P32	1	2030	1/8W 681R 1%FLAME PROOF T&R RES	16	7786	CD4052B IC DUAL 4CHANNEL MUX SMT	1
6437	1N5237B 8V2 0W5 ZENER 5% T&R	5	4447	_20K 15A AUD 12MM STEREO P34	1	4923	1/4W 680R 5% .2"U T&R RES	4	7818	LM1117 REGULATOR 3V3 SOT-223	1
6439	1N5225B 3V0 0W5 ZENER 5% T&R	4	4433	_50K B LIN 9MM P32	15	4924	1/4W 750R 5% .2"U T&R RES	6	7853	W250 100R 5% 1206 SMT RES	2
6450	1N5242B 12V0 0W5 ZENER 5% T&R	4	4435	_50K B LIN 9MM DETENT P32	10	2031	1/8W 820R 5%FLAME PROOF T&R RES	4	7882	W063 0R 1% 1206 SMT RES	1
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	4	4437	_50K B LIN 12MM STEREO P34	2	2033	1/8W 1K 2%FLAME PROOF T&R RES	4	7912	FV-1 SPIN SEMI REVERB CHIP IC	1
6465	1N5250B 20V0 0W5 ZENER 5% T&R	1	4439	_50K B LIN 12MM STEREO DETENTP34	2	4981	1/4W 1K 5%MINI T&R RES	13	7913	32KHZ CRYSTAL SMT 4-PIN FSRLF	1
6475	1N5262B 51V0 0W5 ZENER 5% T&R	1	4441	_50K 4B LIN 12MM STEREO P34	1	6110	1/4W 1K0 1%MINI MF T&R RES	2	7932	07 PIN 25SQ 100 PIN SMT SIL	1
6484	1N4740A 10V0 1W0 ZENER 5% T&R	2	4443	100K 5C R/A 9MM P32	8	4585	1/4W 1K2 5%MINI T&R RES	21	7933	08 PIN 25SQ 100 PIN SMT SIL	1
6738	MC7805CT TO220 P 5V0 REG V1	1	3998	_20K 1B LIN 20MM DETENT S04	18	4988	1/4W 1K5 5%MINI T&R RES	25	7934-PRO	24LC32A SER EEPROM M1-U3 YS DFX	1
6824	1N5246B 16V0 0W5 ZENER 5% T&R	16	4520	_10K TRIM POT	2	6105	1/4W 1K8 5%MINI T&R RES	4	7935-PRO	24LC32A SER EEPROM M1-U4 YS DFX	1
6871	MC7915CT TO220 N 15V0 REG V2	1	3606	12.00 AMP CIRCUIT BREAKER	1	6113	1/4W 2K 5%MINI T&R RES	4	3663	SNAP IEC PWR SOC W/.250TAB FOR .060	1
6872	MC7815CT TO220 P 15V0 REG V1	1	3820	___4UH COIL 14AWG ZOBEL HORIZONTAL	2	6104	1/4W 2K2 5%MINI T&R RES	6	8608	NYLON SPACER .200 OD .145 ID .110 L	16
5101	BC550C TO92 NPN TRAN T&R TB	17	8497	M1610/M810 GABLE	2	4864	1/4W 2K7 5% T&R RES	2	3859	1/2 PLASTIC HEX SPACER #4	15
5102	BC560C TO92 PNP TRAN T&R TB	38	3489	CLIP 250X032 18-22AWG DISCO/INSL	1	6124	1/4W 3K 5%MINI T&R RES	4	8657	6-32 X 3/8" HEX SPACER ALUMINUM	7
5103	MPSA06 TO92 NPN TRAN T&R TA	4	3490	CLIP 250X032 14-16AWG DISCO/INSL	11	4814	1/4W 3K6 5% T&R RES	1	8682	#4 TEFLON WASHER .125ID .281OD .031	6
5104	MPSA56 TO92 PNP TRAN T&R TA	2	3601	RING TERMINAL 16AWG WIRE & #8 SCREW	1	5028	1/4W 3K74 1% T&R RES	4	8482	3/8 1D FLAT WASHER	21
5105	MPSA13 TO92 NPN DARL T&R TA	3	3682	250 MALE PCB TAB REEL	13	4850	1/4W 3K9 5% T&R RES	2	8818	3/4 OD X 3/8 ID X .080 THICK WASHER	2
5106	MPSA63 TO92 PNP DARL T&R TA	2	3450	1/4" JCK PCB MT ALL-GOLD SKT	2	4774	1/4W 4K12 1% T&R RES	4	3511	#6 FLAT WASHER NYLON	15
5107	2N5551 TO92 NPN TRAN T&R TA	4	3921	1/4" JCK PCB MT VERT STER RT SWT	16	4943	1/4W 4K7 5% .2"U T&R RES	2	8485	#6 SPLIT WASHER ZINC	2
5108	2N5401 TO92 PNP TRAN T&R TA	4	3924	1/4" JCK PCB MT VERT 2XTIP HICURNT	4	4982	1/4W 4K7 5%MINI T&R RES	49	3524	NYLON SH/WASHER ID385 OD750 T060	4
6774	BD139 TO126 NPN TRAN TG	1	3466	RCA DUAL PCB MT VERT GOLD 24MM	2	6128	1/4W 4K99 1%MINI MF T&R RES	42	3577	FIBER WASHER .625OD .380ID .03	4
6808	MJE15032 TO220 NPN TRAN TE	2	3628	SPKON 4C PCB MT VERT 250TAB GRY #4	2	6141	1/4W 5K6 5%MINI T&R RES	4	3440	4PDT MINI VERT ALT SWITCH	1
6809	MJE15033 TO220 PNP TRAN TE	2	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	8	6121	1/4W 6K98 1%MINI MF T&R RES	4	3522	DPDT MINI PC VERT SNP ALT	2
6873	MJE340 TO126 NPN TRAN TG	2	3451	EYELET SMALL 0.089 OD PLATED	63	4926	1/4W 7K5 5% .2"U T&R RES	18	3587	DPDT ROKR SW QUIK 250"AC/PWR ON-OFF	1
6874	MJE350 TO126 PNP TRAN TG	2	3856	FAN 80MM X 80MM 39CFM 12VDC 200MA	2	4990	1/4W 8K2 5%MINI T&R RES	2	CH1302	M1610 POWER TRFMR T'RD	1
6916	TIP107 TO220 PNP TRAN DARL TE	1	3894	AAVID 5972-B H/S W/TAB B.O.	5	4983	1/4W 10K 5%MINI T&R RES	96			
6953	IRF4905 TO220 PCH MFET	8	3501	B52200F006 COMP WASH #4 SMALL	3	5031	1.0W 10K0 5% T&R	16			
6966	IRL2910 NCH MFET 100V TN	8	3977	QUAD XSISTOR TO220SPRING YELLOWZINC	6	6116	1/4W 10K0 1%MINI MF T&R RES	80			
6909	MJ21196 TO3 NPN TRAN TH	4	8889	RUBBER GROMMET #2183-034-BLK	1	4630	1/2W 15K 5% T&R RES	6			
6910	MJ21195 TO3 PNP TRANSISTOR TH	4	3801	5/8" BUMPER BUTTON BLACK	1	4979	1/4W 15K 5%MINI T&R RES	30			
6745	LM13600N IC XCONDUCTANCE AMP	4	3810	4" NYLON CABLE TIE	10	4954	1/4W 18K 5% .2"U T&R RES	12			
6804	MC33079P IC QUAD OP AMP	4	8397	KNOB STYLE 2 GREY	2	6125	1/4W 18K 5%MINI T&R RES	2			
6882	TL072CP IC FET DUAL OP AMP	15	8632	KNOB ROUND PUSHBUTTON 1/4" GREY	2	6123	1/4W 20K0 1%MINI MF T&R RES	5			
6889	TL074CN IC QUAD O/A T.I ONLY	11	8637	ROUND PUSH BUTTON 1/4" BLK 24MM	1	4777	1/4W 21K5 1% T&R RES	2			
6467	_10K 10% THERMISTOR TO-92 NTC	2	9915	KNOB 0-DEG RED SOFT GRAY RIB	2	6118	1/4W 22K 5%MINI T&R RES	17			
5199	100P 100V 2%CAP T&R RAD CER.2"NPO	8	9916	KNOB 0-DEG GRY SOFT GRAY RIB	28	6129	1/4W 27K 5%MINI T&R RES	7			
5408	_47P 100V 10%CAP T&R BEAD NPO	33	9917	KNOB 0-DEG GRN SOFT GRAY RIB	9	6122	1/4W 33K 5%MINI T&R RES	13			
5412	220P 100V 10%CAP T&R BEAD NPO	14	9918	KNOB 0-DEG BLU SOFT GRAY RIB	10	4868	1/4W 36K 5% T&R RES	2			
5208	__2N2 400V 5%CAP T&R RAD .2"FLM	5	9919	KNOB 0-DEG YEL SOFT GRAY RIB	8	4878	1/4W 43K 5% T&R RES	4			
5273	__1N5 200V 5%CAP T&R RAD CER.2"NPO	16	9920	KNOB 0-DEG WHT SOFT GRAY RIB	9	4927	1/4W 47K 5% .2"U T&R RES	4			
5275	__3N3 100V 5%CAP T&R RAD .2"FLM	2	9921	KNOB 0-DEG GRY W/O COVERING	6	6119	1/4W 47K 5%MINI T&R RES	26			
5276	__3N3 200V 5%CAP T&R RAD CER.2"NPO	4	3426	8' 3/16 SJT AC LINE CORD REMOVB-CSA	1	4835	1/4W 56K 5% T&R RES	2			
5416	470P 50V 10%CAP T&R BEAD NPO	6	3638	12 CIR CABLE HOLDER .098	1	4928	1/4W 56K 5% .2"U T&R RES	14			
5422	__1N 50V 10%CAP T&R BEAD NPO	20	6581	07 SKT 25SQ 100 SIL TOP-ENTRY	1	5018	1/4W 56K 5%MINI T&R RES	2			
5204	_10N 100V 10%CAP T&R RAD .2"FLM	2	6582	08 SKT 25SQ 100 SIL TOP-ENTRY	1	6139	1/4W 62K 5%MINI T&R RES	6			
5205	_15N 100V 10%CAP T&R RAD .2"FLM	4	8701	4-40 KEPS NUT ZINC	3	4929	1/4W 82K 5% .2"U T&R RES	14			
5207	_18N 100V 5%CAP T&R RAD .2"FLM	6	8760	6-32 KEPS NUT TIN PLATED	16	6120	1/4W 100K 5%MINI T&R RES	1			
5209	__4N7 250V 5%CAP T&R RAD .2"FLM	4	8800	6-32 KEPS NUT ZINC	13	4991	1/4W 133K 1%MINI T&R RES	16			
5210	_22N 100V 10%CAP T&R RAD .2"FLM	26	8841	10-32 KEPS NUT TIN PLATED	6	4796	1/4W 180K 5%MINI T&R RES	4			
5222	_33N 100V 10%CAP T&R RAD .2"FLM	10	8797	5/16-18 KEPS NUT JS500	1	6126	1/4W 220K 5%MINI T&R RES	14			
5224	_47N 100V 10%CAP T&R RAD .2"FLM	4	3916	TO3 SIL-PAD REPLACES MICA	8	6127	1/4W 470K 5%MINI T&R RES	2			
5840	_22N 400V 10%CAP BLK RAD POLY FLM	2	4022	ELASTOMER PAD - 2-TO218 / 4-TO220	6	4948	1/4W 1M 5% .2"U T&R RES	2			
6435	_22N 275V 20%CAP BLK 'X2' 15MM AC	1	8581	CUSTOM PBL TRANSISTOR SPACER	6	4951	1/4W 4M7 5% .2"U T&R RES	7			
6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC	1	3580	12 CIR WAFER W/LCK VT 0.1"	1	6132	1/4W 8M2 5%MINI T&R RES	6			
5212	100N 63V 5%CAP T&R RAD .2"FLM	37	4597	22AWG STRAN TC WIR JMP	15	4809	1/4W 10M 5% T&R RES	2			
5226	_68N 100V 5%CAP T&R RAD .2"FLM	2	4599	22AWG SOLID SC WIR T&R JMP	234	4751	1/4W 22M 5% T&R RES	10			
5229	150N 63V 10%CAP T&R RAD .2"FLM	2	5299	24AWG SOLID SC WIR RAD JMP	1	3519	28" 12C-26AWG RIB 1 W/LCK HDR 098	1			
5231	220N 63V 10%CAP T&R RAD .2"FLM	2	4745	5.0W 0R1 5% BLK RES	8	3722	RELAY 1A 30AMP DC24 036MA PC-C	2			
5233	330N 63V 5%CAP T&R RAD .2"FLM	8	2006	1.0W 1R 5%FLAME PROOF T&R RES	2	9010	16GA COLD ROLLED STEEL 4'X8' SHEET	4			
5234	470N 63V 10%CAP T&R RAD .2"FLM	2	2007	1/4W 1R 5%FLAME PROOF T&R RES	4	8865	4-40 X 5/16 PAN PH MS JS500	33			
5314	100N 50V 10%CAP T&R BEAD X7R	7	4911	1/4W 2R2 5% T&R RES	4	8729	#4 X 3/8 FLAT QUAD TYPE A JS500 BLK	4			
5318	220N 50V 10%CAP T&R BEAD X7R	1	4748	2.0W 3R9 5% T&R	2	8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	18			
5257	__2U2 63V 20%CAP T&R RAD .2"EL	12	2008	1.0W 10R 5%FLAME PROOF T&R RES	4	8831	6-32 X 1/4 PAN PH TAPTITE ZN	2			
5258	__4U7 63V 20%CAP T&R 8X7MM .2"EL	20	4605	1/8W 10R 5% T&R RES	3	8832	6-32 X 1/4 PAN PH TAPTITE JS500	24			
7769	1U 50V 20%CAP 4.3X3.9 SMT ELC	5	2013	1/8W 22R1 1%FLAME PROOF T&R RES	2	8801	6-32 X 3/8 PAN PH TAPTITE JS500	4			
5260	_22U 50V 20%CAP T&R RAD .2"EL	1	4709	5.0W 22R 5% BLK RES	1	8829	6-32 X 3/8 FLAT PH TAPTITE BO#C HEA	3			
5282	_10U 16V 20%CAP T&R 5X7MM .2"NP	32	2016	1/8W 39R 2%FLAME PROOF T&R RES	4	8761	6-32 X 1/2 PAN PHIL MS ZINC CLEAR	16			
5631	_22U 50V 20%CAP T&R 6X7MM .2"EL	12	6134	1/4W 47R 5%MINI T&R RES	6	8823	6-32 X 1 PAN PH TAPTITE JS500	3			
5945	_10U 63V 20%CAP T&R RAD .2"EL	3	2019	1/8W 100R0 1%FLAME PROOF T&R RES	20	8809	10-32 X 1/4 PAN PH TAPTITE JS500	8			
5961	_33U 16V 20%CAP T&R RAD .2"NP	17	4602	1/8W 100R 5% T&R RES	29	8833	10-32 X 7/8 IND HEX M/S BLACK OXIDE	6			
7810	47U 16V 20%CAP 6X5.4 SMT ELE	2	4921	1/4W 100R 5% .2"U T&R RES	18	8893	10-32 X 1 FLAT PHILIPS TT JS500 BLK	10			
5618	470U 25V 20%CAP BLK 10X15MM EL	1	4984	1/4W 150R 5%MINI T&R RES	3	8733	5/16-18X2-1/2 GRD 5 HEX BOLT JS500	1			
5879	100U 16V 20%CAP T&R 8X7MM .2"EL	15	2023	1/8W 220R0 1%FLAME PROOF T&R RES	8	7613	100N 25V 10%CAP 0805 SMT X7R	5			


W1:E
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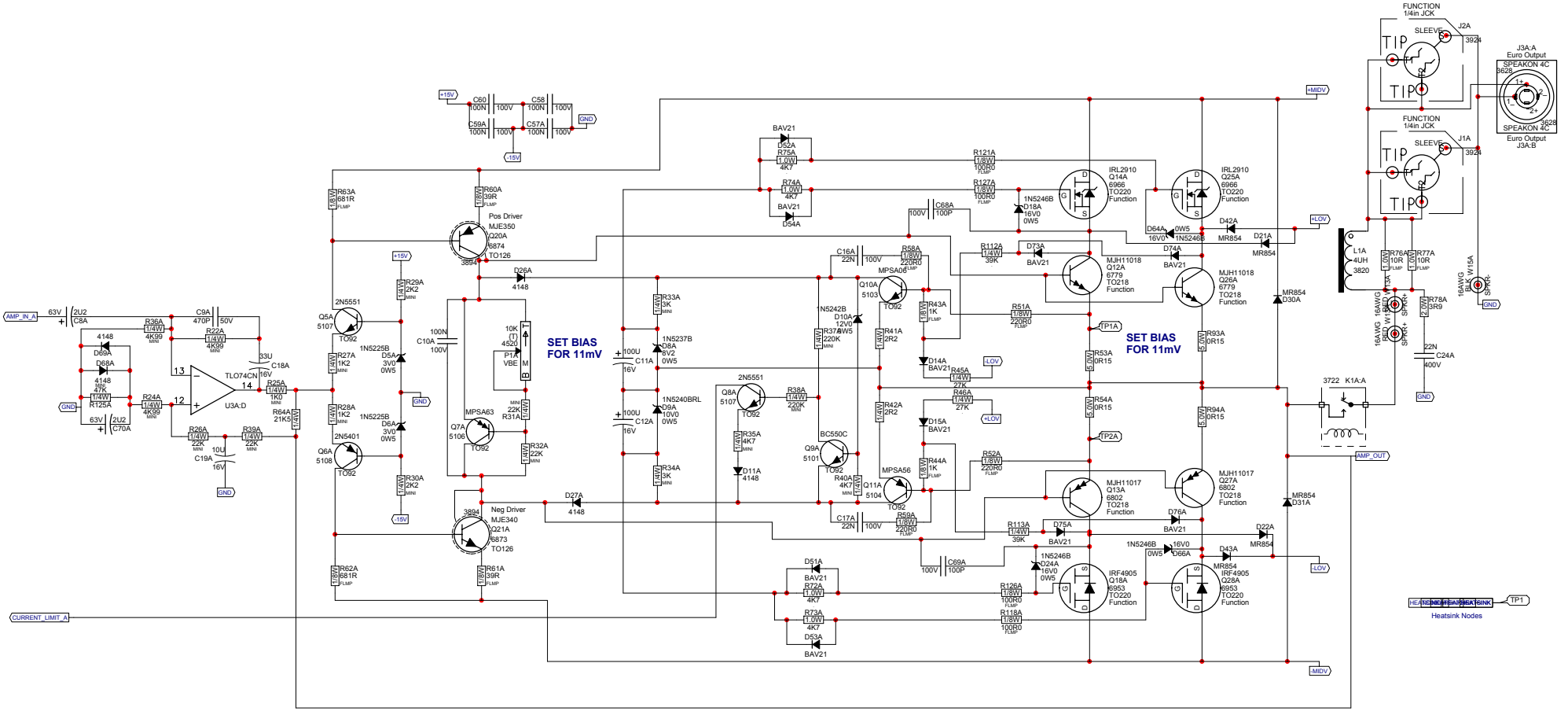
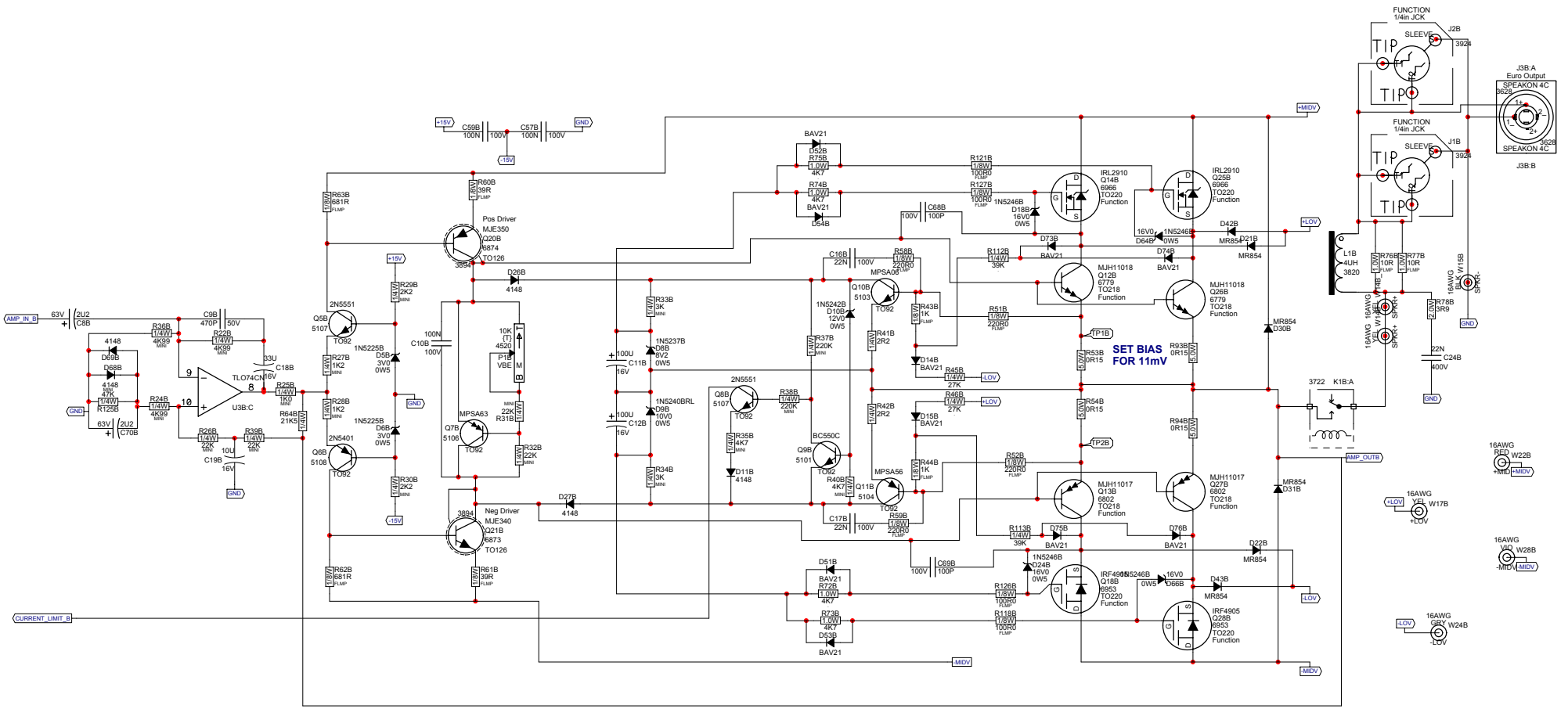
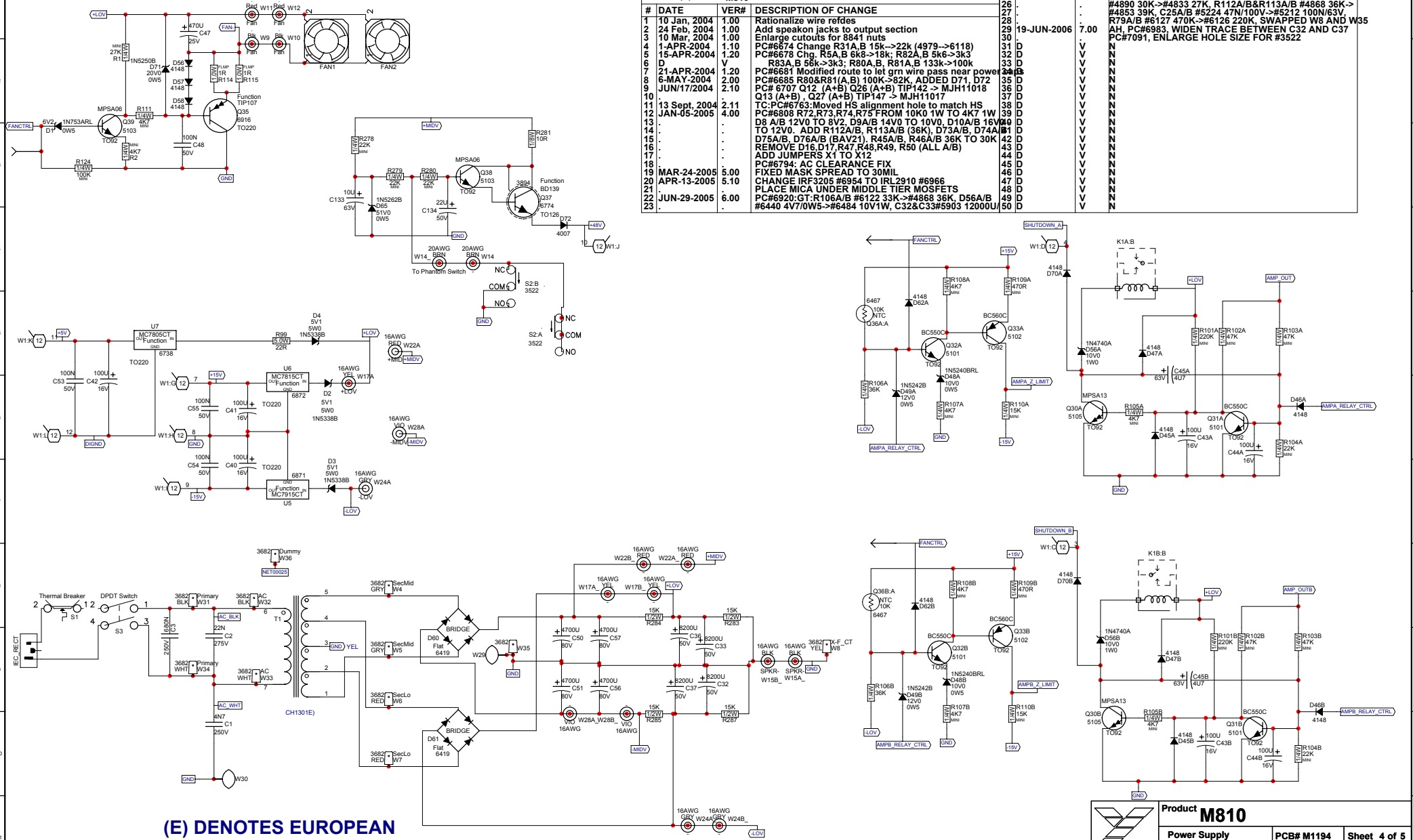
U4:C
TL072CP
10K0 R2A
10K0 R1A
470P C2A
470P C1A
2U2 C3A
63V
10K0 R4A
10K0 R3A
ACLIP
100V C25A
100N
TO92
5102 Q22A
BC560C
220K R79A
15K R12A
22M R11A
GND
+15V
LM13600N
U2:B
U2:A
100R0 R10A
15K R15A
100R0 R9A
18K R8A
220P C4A
100V
47K R6A
100N C66A
18K R5A
470K R122A
4148 D1A
U1A:A
U1A:C
4K7 R7A
330N C38A
33K R90A
330N C39A
330N C31A
4K7 R92A
47K R91A
D40A
U1A:B
2U2 C5A
4K99 R13A
15K R123A
200V C67A
1N5
NC00004
NC00003
LM13600N U2:D 6745 Dual VCA
C6A 100P
R14A 1K
R17A 10K0
R16A 1K
C7A 100P
TO92 5102 Q4A
BC560C
R18A 47K
BC550C Q1A 5101
TO92
4148 D2A
R20A 2K
R21A 2K
Q3A 5101
Q2A 5101
R19A 47K
TLO74CN
U3A:A
U3A:B
U3A:C
U3A:D
U3A:E
4148 D3A
D36A 4148
D34A 4148
D35A 4148
D37A 4148
D38A 4148
+MIDV
-MIDV
R80A 82K
R81A 82K
R84A 10K0
R85A 10K0
R82A 3K3
R83A 3K3
2U2 C27A
2U2 C28A
R111A 22M
4K99 R23A
AMP_IN_A
2N5401
Q23A 5108
TO92
10U C29A
C30A 22N
100V
R86A 10K0
R87A 1K5
3K9 R88A
10M R100A
AMPA_Z_LIMIT
CURRENT_LIMIT_A
W1
DIGND
+5V
+48V
-15V
SHUTDOWN_A
SHUTDOWN_B
B_IN_+
B_IN_-
To Mixer
BCLIP
C25B
R79B
R12B
R11B
R10B
R15B
R9B
R8B
C4B
R6B
C66B
R5B
R122B
D1B
U1B:A
U1B:C
R7B
C38B
R90B
C39B
C31B
R92B
R91B
D40B
U1B:B
C5B
R13B
R123B
C67B
NC00002
NC00001
Dual VCA 6745 U2:C LM13600N
C6B 100P
R14B 1K
R17B 10K0
R16B 1K
C7B 100P
R18B 47K
R20B 2K
R21B 2K
Q3B 5101
Q2B 5101
R19B 47K
R84B 10K0
R85B 10K0
R80B 82K
R81B 82K
R82B 3K3
R83B 3K3
C27B
C28B
R111B 22M
4K99 R23B
AMP_IN_B
R87B 1K5
3K9 R88B
10M R100B
AMPB_Z_LIMIT
CURRENT_LIMIT_B
Yorkville
Product M810
Ampln
PCB# M1194
Sheet 1 of 5
Date: Wed Jun 28, 2006
Rev:7V00
YsType:{Company
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		

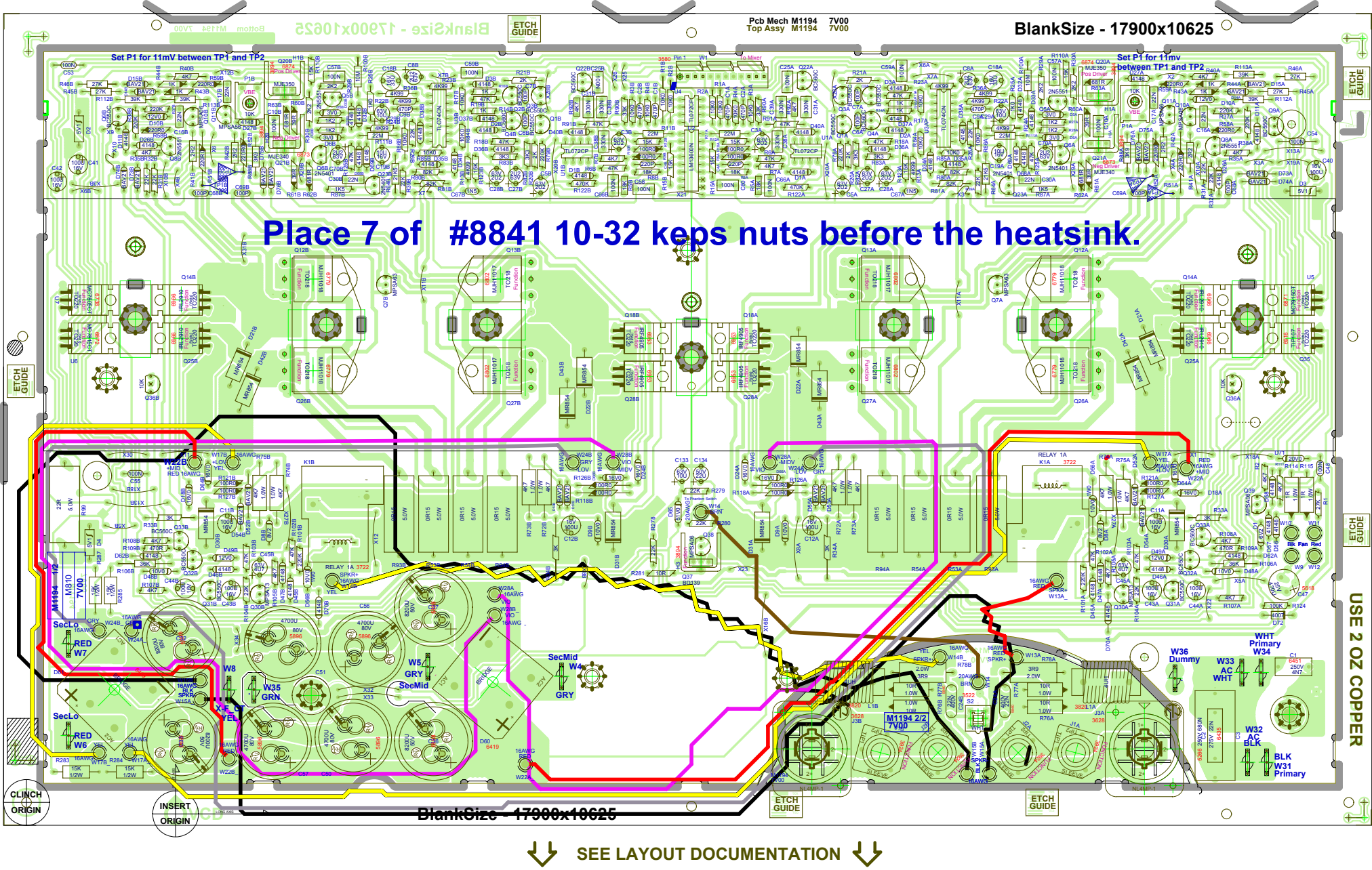


M1194.PCB_DATABASE_HISTORY			
MODEL(S):-	M810		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	10 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	1-APR-2004	1.10	PC#6674 Change R31A,B 15k-->22k (4979-->6118)
5	15-APR-2004	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 trans
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 D8 A/B 12V0 TO 8V2, D9A/B 14V0 TO 10V0, D10A/B 16V0
13	.	.	TO 12V0. ADD R112A/B, R113A/B (36K), D73A/B, D74A/B
14	.	.	D75A/B, D76A/B (BAV21). R45A/B, R46A/B 36K TO 30K
15	.	.	REMOVE D16,D17,R47,R48,R49, R50 (ALL A/B)
16	.	.	ADD JUMPERS X1 TO X12
17	.	.	PC#6794: AC CLEARANCE FIX
18	.	.	FIXED MASK SPREAD TO 30MIL
19	MAR-24-2005	5.00	CHANGE IRF3205 #6954 TO IRL2910 #6966
20	APR-13-2005	5.10	PLACE MICA UNDER MIDDLE TIER MOSFETS
21	.	.	PC#6920:GT:R106A/B #6122 33K->#4868 36K, D56A/B
22	JUN-29-2005	6.00	#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

Yorkville	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
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 6k8->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/

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

#	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

M1194 PENDING CHANGES

MODEL(S):- M810

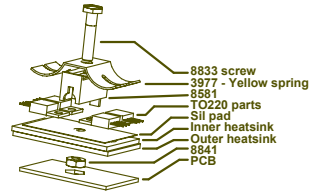
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

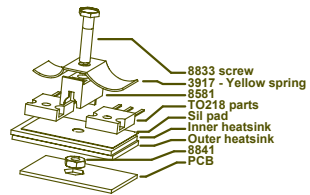
PRODUCTION NOTES

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

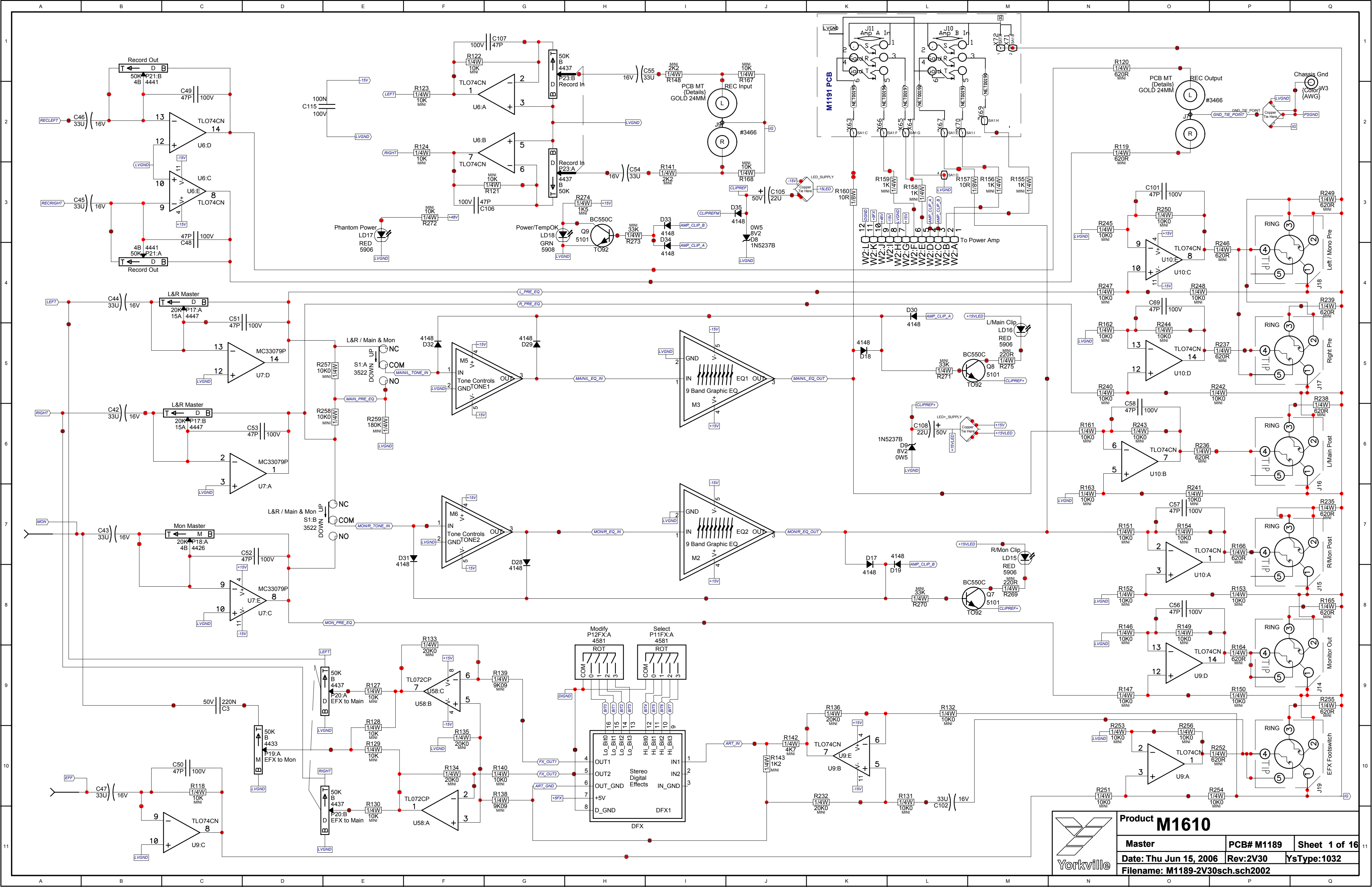
O DELAYS & CHORUS

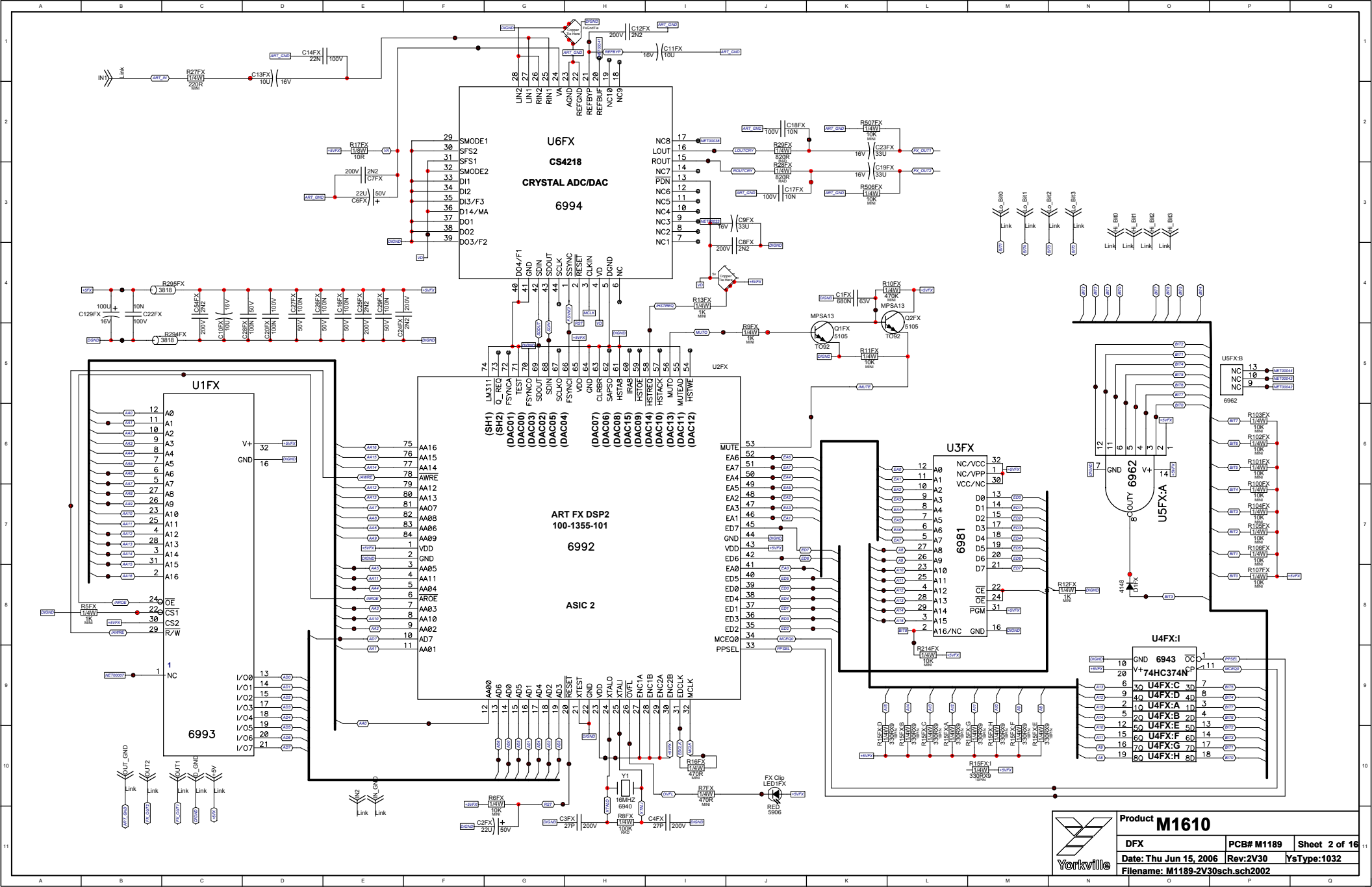
1 50ms doubling delay + slow chorus
2 80ms slap delay + medium chorus
3 100ms slap delay + medium chorus
4 150ms regen delay + slow chorus
5 175ms regen delay + medium chorus
6 200ms regen delay + slow chorus
7 225ms regen delay + medium chorus
8 250ms regen delay + slow chorus
9 275ms regen delay + 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

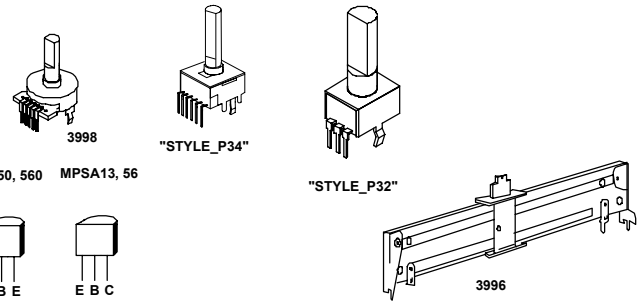
1 Pitch Shift octave down
2 Pitch Shift octave up
3 Pitch Shift major 3rd up
4 Pitch Shift major 5th down
5 Dual Pitch Shift major 3rd and 5th up
6 Dual Pitch Shift octave up and octave down
7 Detune Flanger
8 Slow Flanger w/ medium regen
9 Slow Flanger w/ high regen
10 Medium Flanger w/ medium regen
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

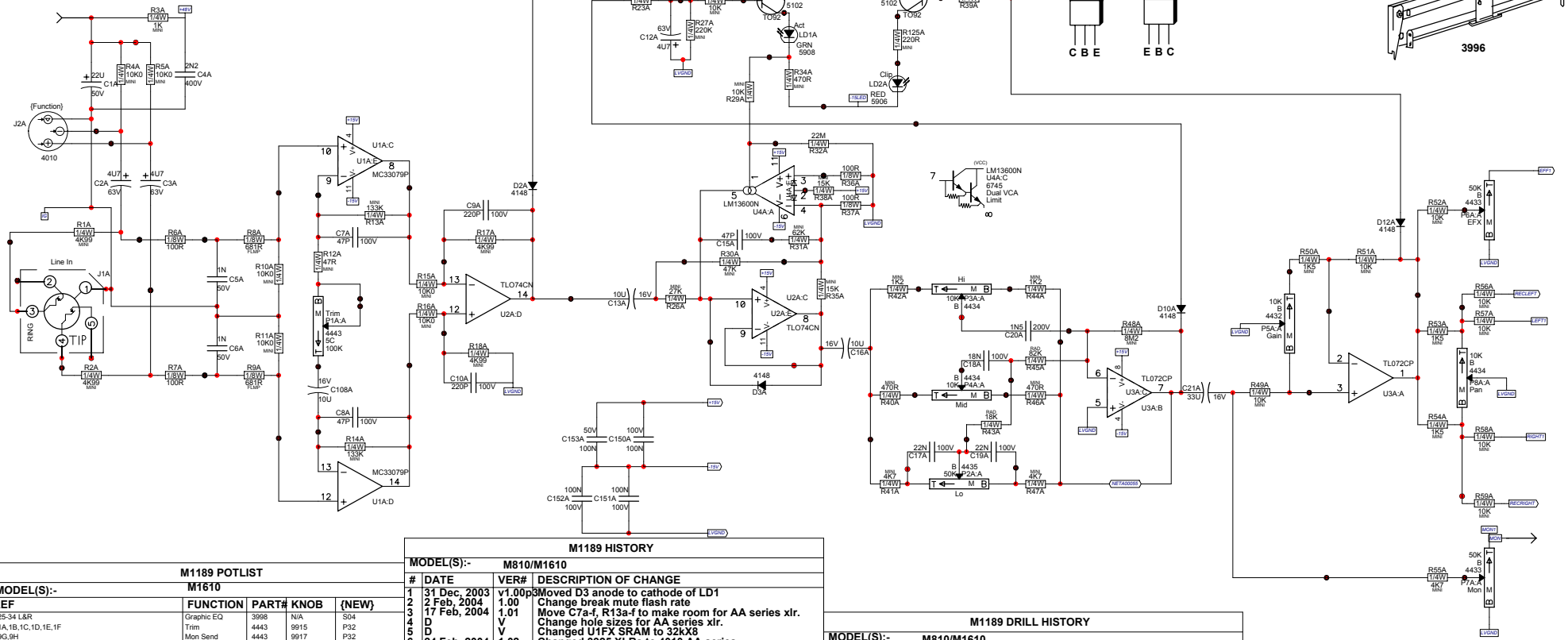
255 PRESET 16 Bit DIGITAL EFFECTS PROCESSOR


Record Out
Record In
Record Out
REC Input
REC Output
Chassis Gnd
Phantom Power
Power/TempOK
L&R Master
L&R / Main & Mon
Tone Controls
9 Band Graphic EQ
L/Main Clip
R/Mon Clip
Mon Master
Modify
Select
Stereo Digital Effects
DFX
EFX to Main
EFX to Mon
To Power Amp
M1191 PCB
Left / Mono Pre
Right Pre
L/Main Post
R/Mon Post
Monitor Out
EFX Footswitch
Yorkville
Product M1610
Master
PCB# M1189
Sheet 1 of 16
Date: Thu Jun 15, 2006
Rev:2V30
YsType:1032
Filename: M1189-2V30sch.sch2002


U6FX
CS4218
CRYSTAL ADC/DAC
6994
U1FX
6993
U2FX
ART FX DSP2
100-1355-101
6992
ASIC 2
U3FX
6981
U5FX:A
6962
U4FX:I
6943
74HC374N
Product M1610
DFX
PCB# M1189
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

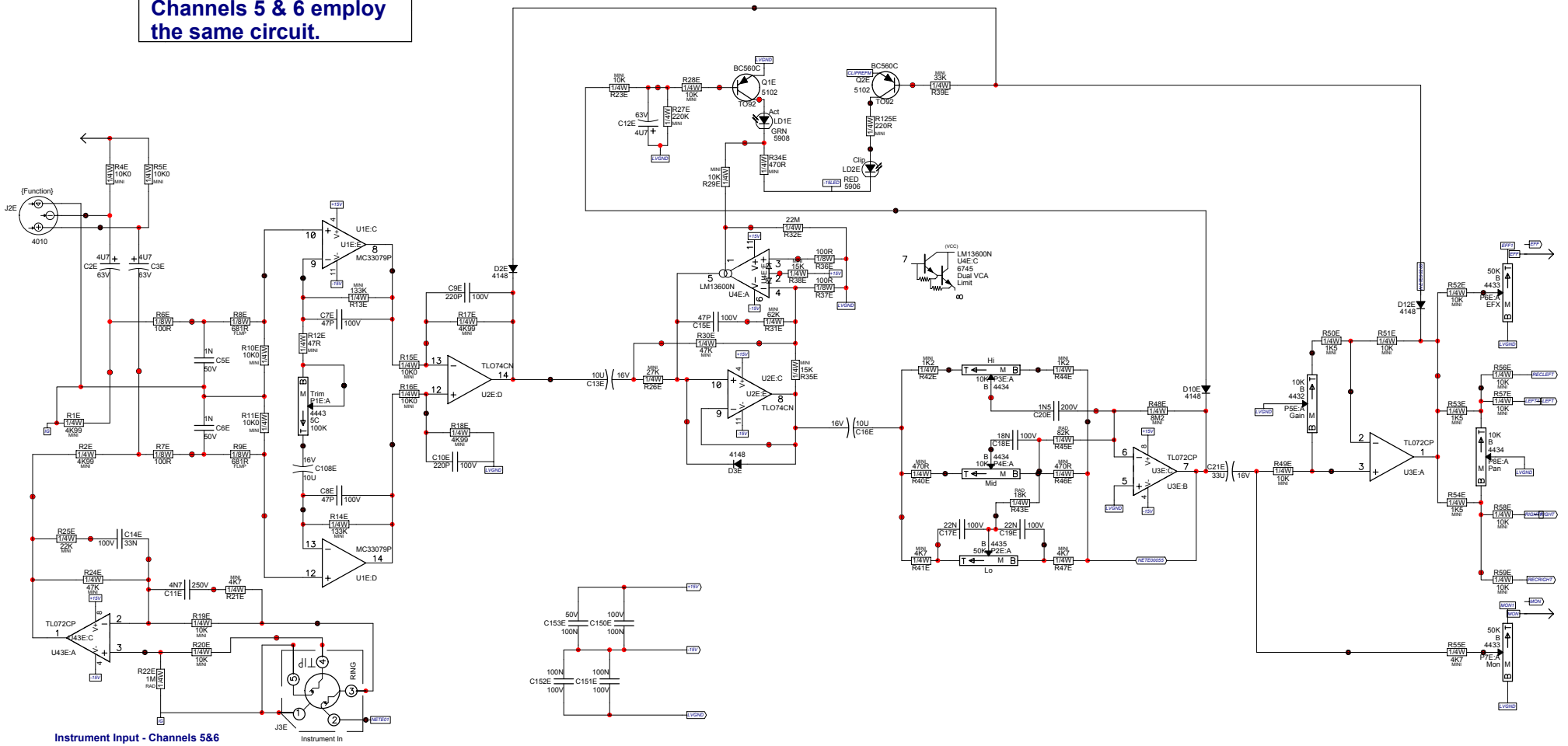
*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

Yorkville

Product **M1610**

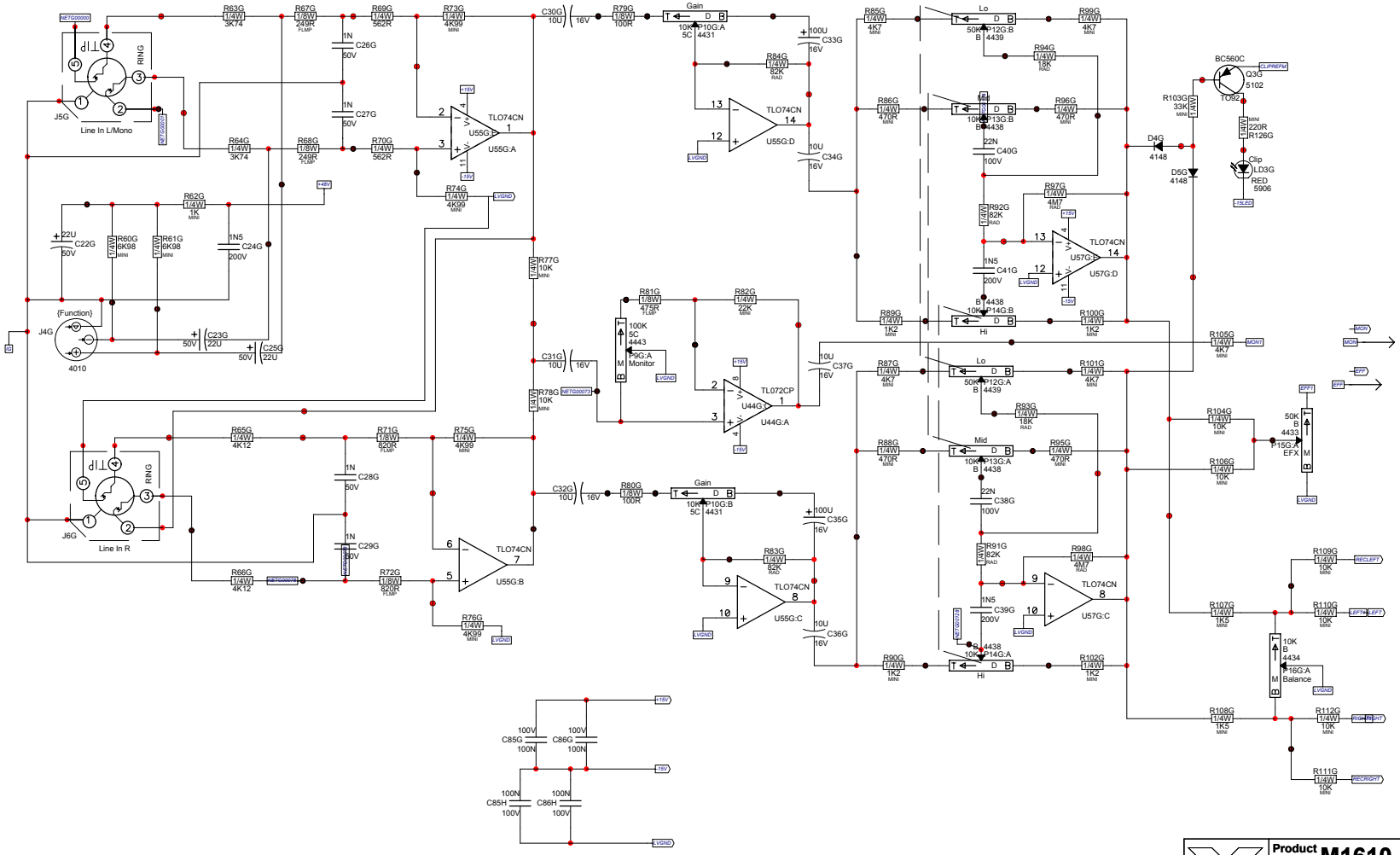
Mono Ch1	PCB# M1189	Sheet 3 of 16
Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
Filename: M1189-2V30sch.sch2002		

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

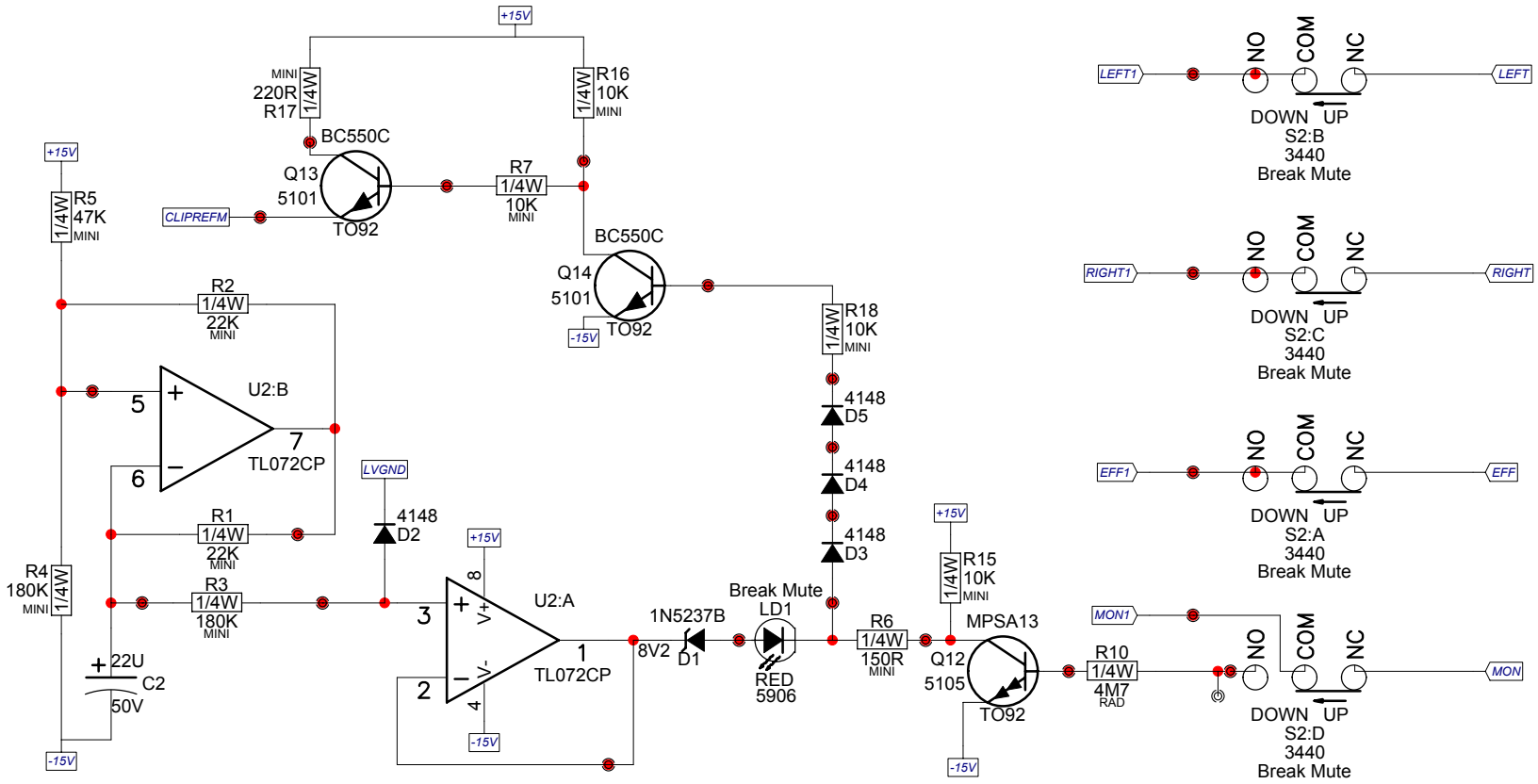


Yorkville	Product **M1610**		
	Mono Ch5	PCB# M1189	Sheet 7 of 16
	Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
	Filename: M1189-2V30sch.sch2002		

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

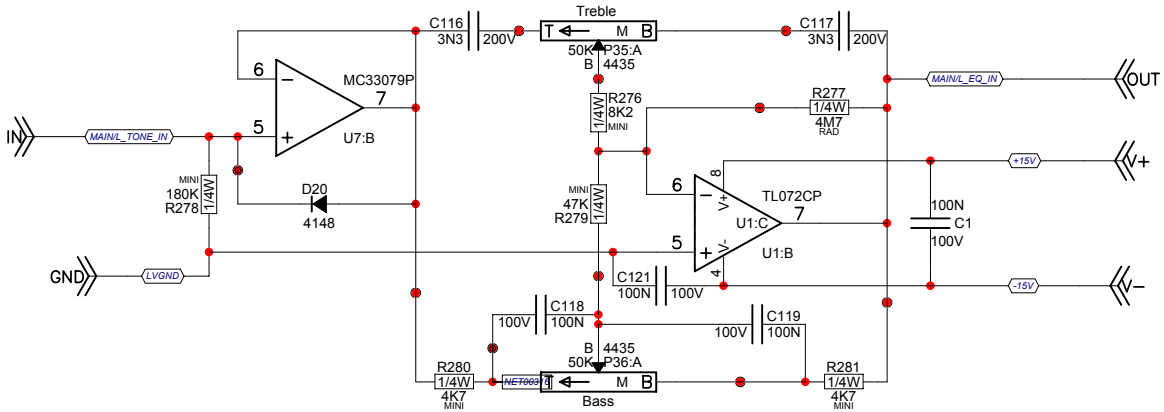


Yorkville	Product **M1610**		
	Stereo Ch7	PCB# M1189	Sheet 9 of 16
	Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
	Filename: M1189-2V30sch.sch2002		

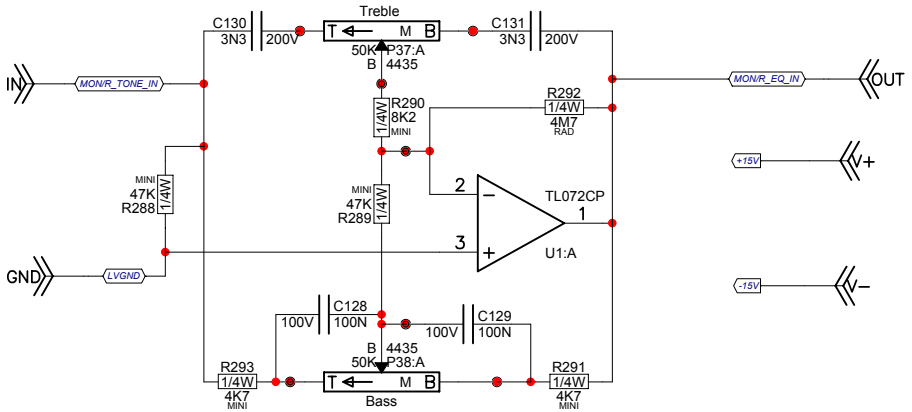


Yorkville

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

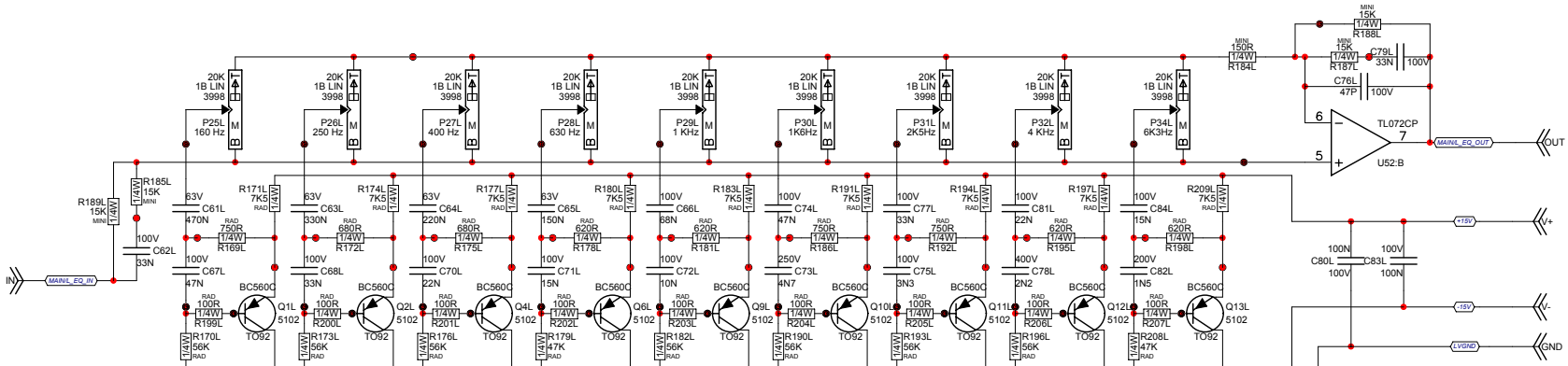


Yorkville	Product **M1610**		
	TONE1	**PCB# M1189**	**Sheet 13 of 16**
	Date: Thu Jun 15, 2006	**Rev:2V30**	**YsType:1032**
	Filename: M1189-2V30sch.sch2002		

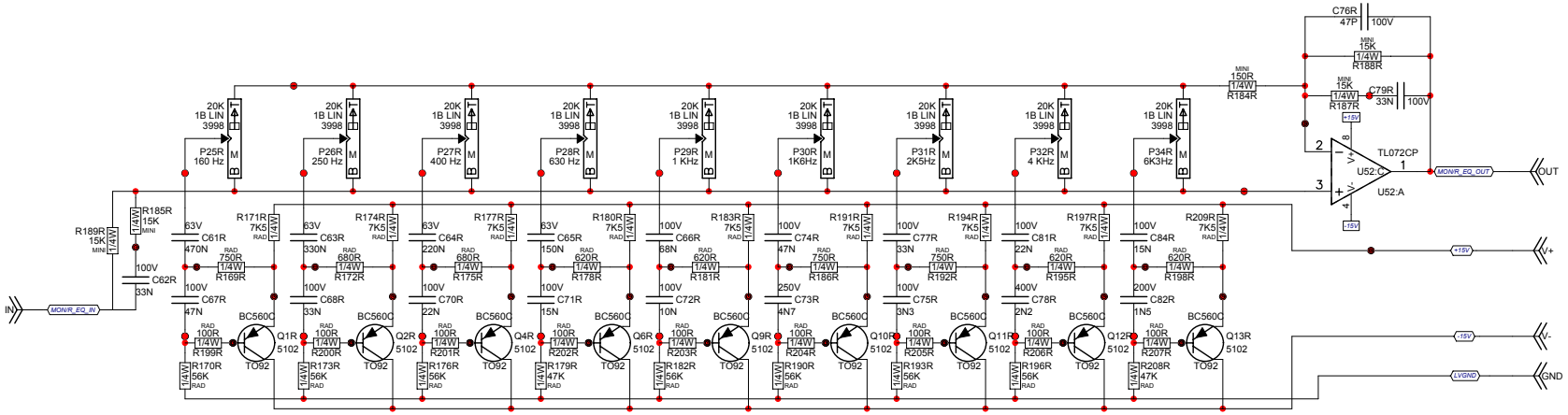


Yorkville

Product **M1610**		
TONE2	PCB# M1189	Sheet 14 of 16
Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
Filename: M1189-2V30sch.sch2002		

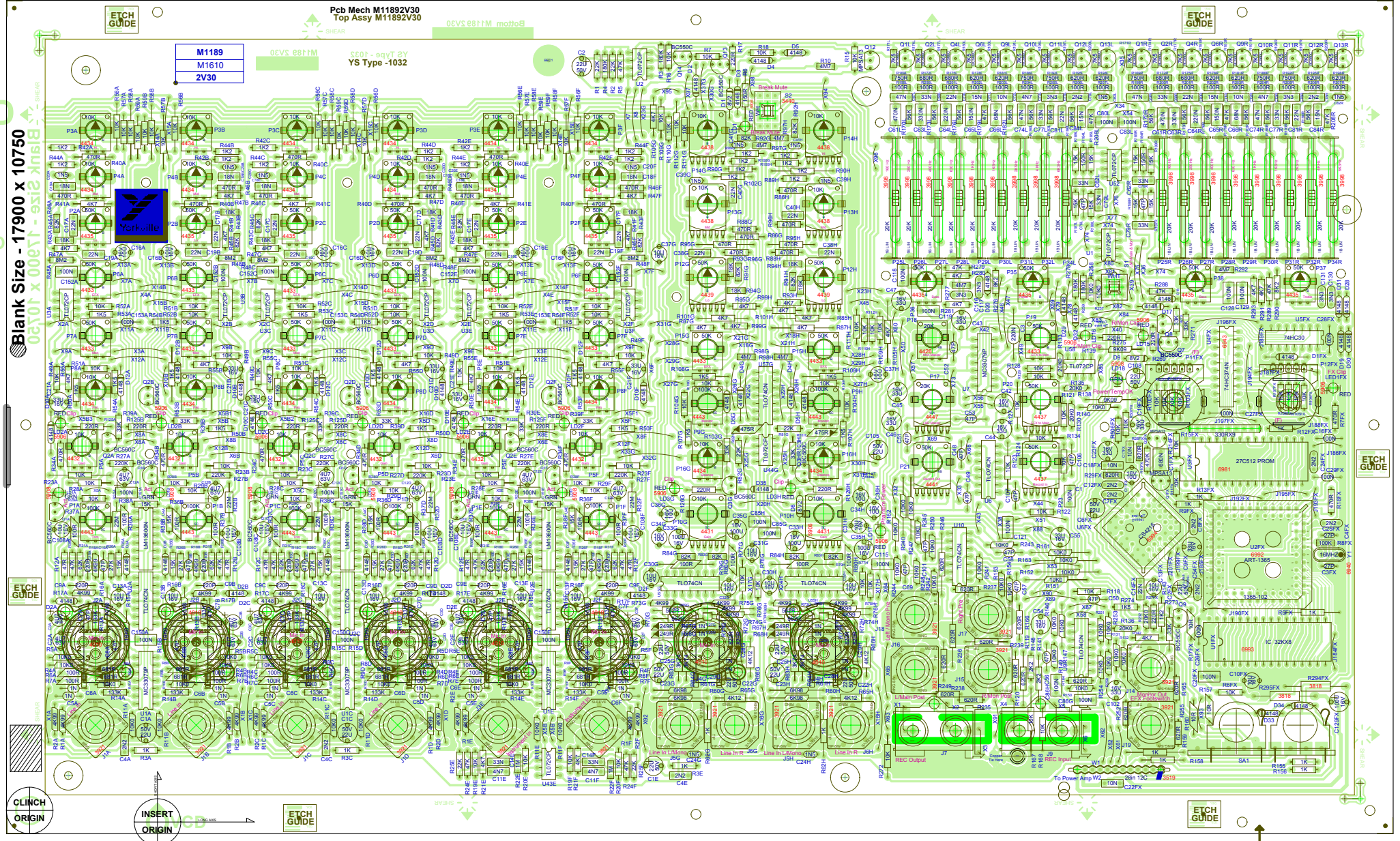


Yorkville	Product **M1610**		
	EQ1	PCB# M1189	Sheet 15 of 16
	Date: Thu Jun 15, 2006	Rev:2V30	YsType:1032
	Filename: M1189-2V30sch.sch2002		



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
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

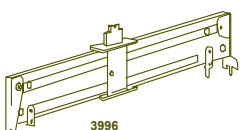
MODEL(S):- M1610

#	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

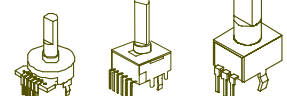
*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

PRODUCTION NOTES

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



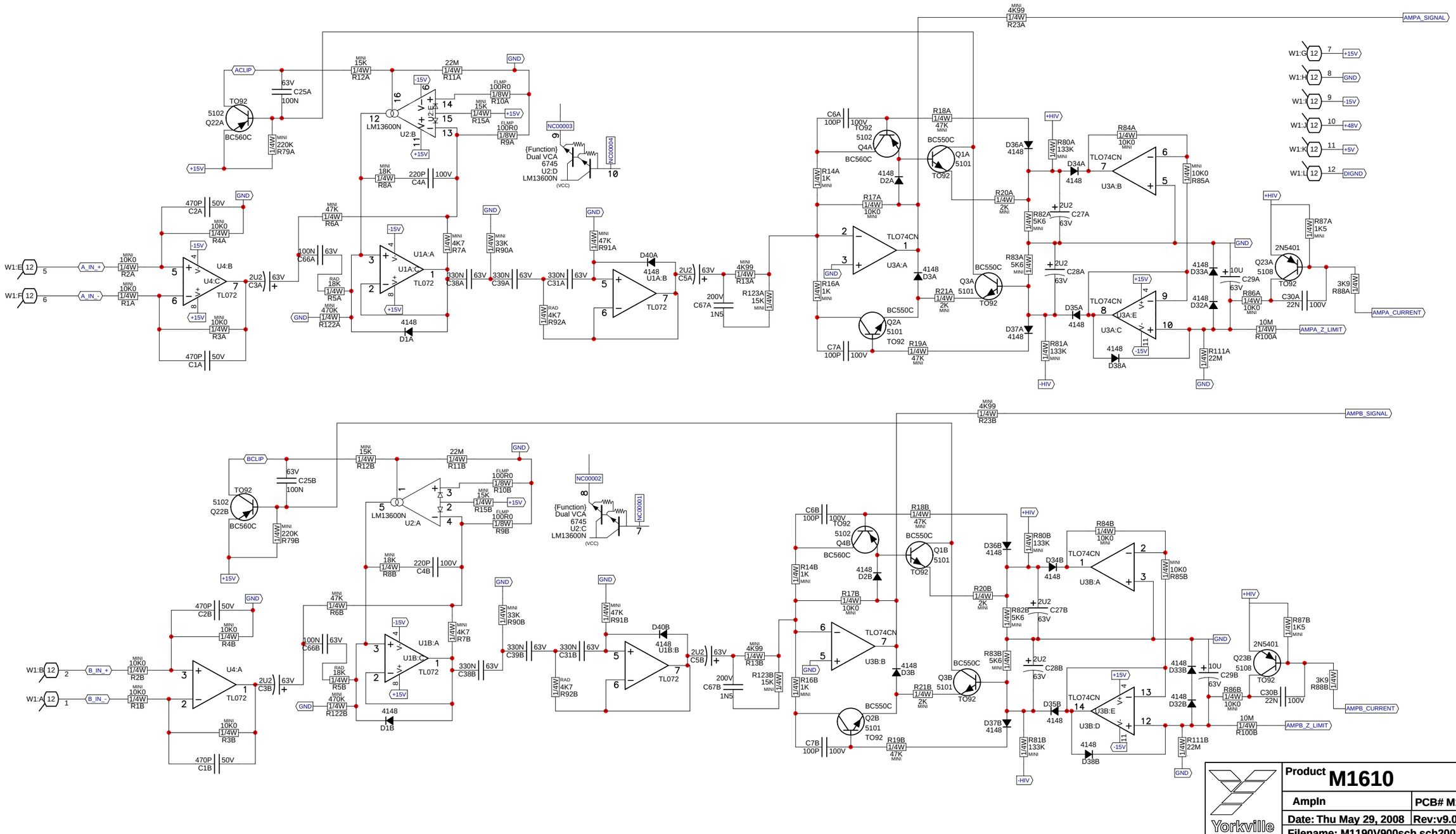
3996

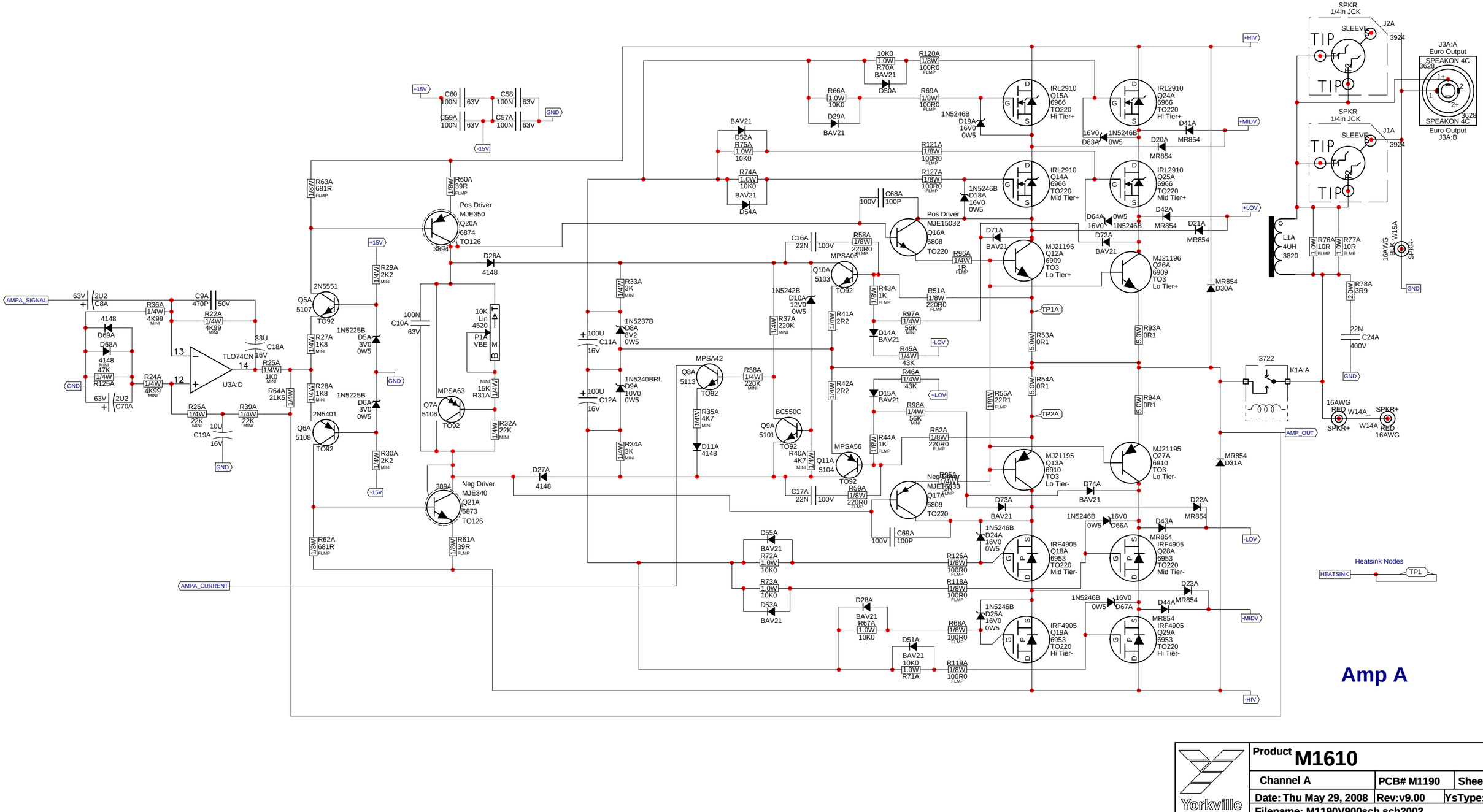


"STYLE_P23" "STYLE_P34" "STYLE_P32"

MPSA13, 56 BC550, 560

E B C C B E

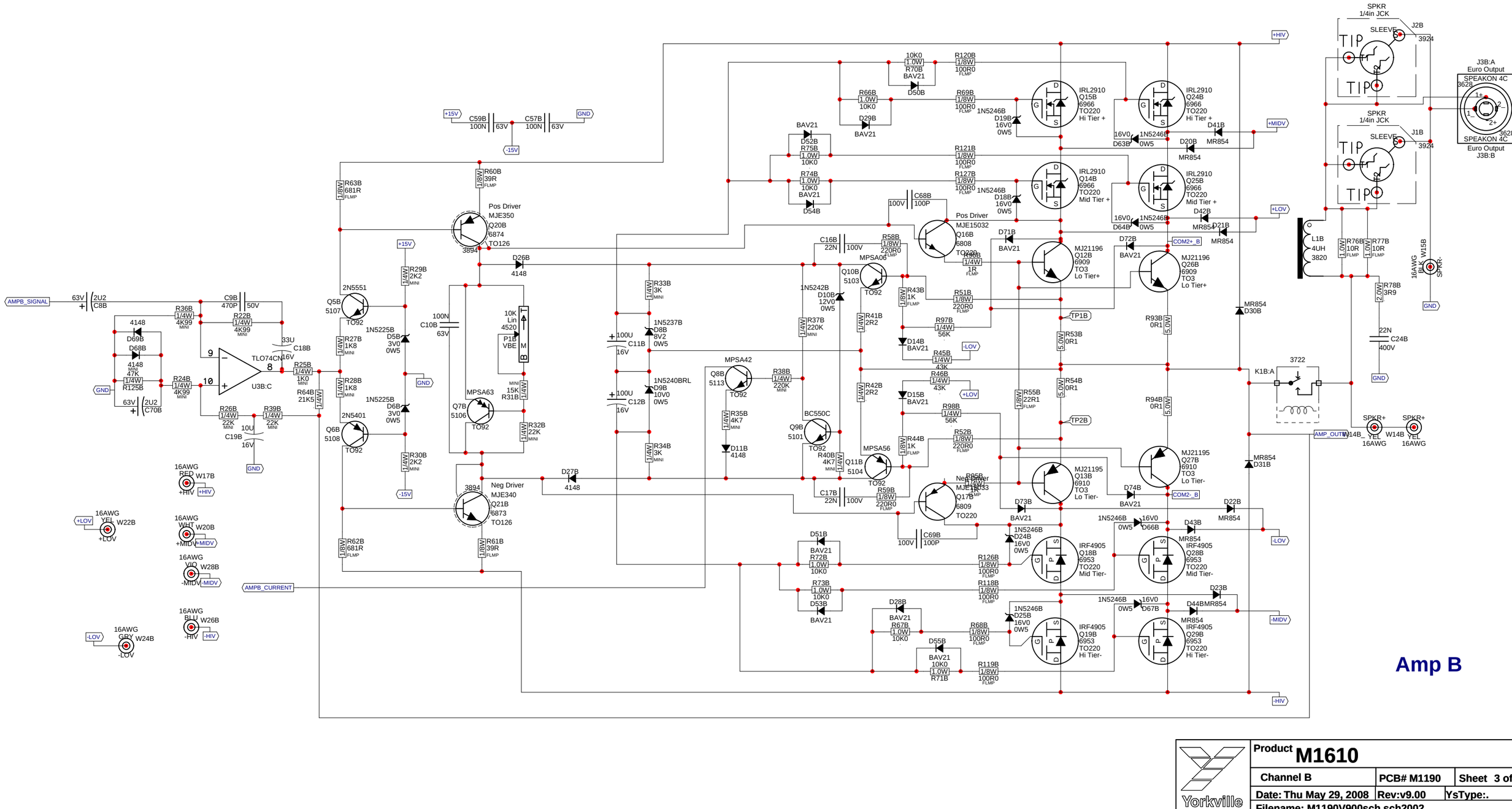

ACLIP
BCLIP
AMPA_SIGNAL
AMPB_SIGNAL
AMPA_CURRENT
AMPB_CURRENT
AMPA_Z_LIMIT
AMPB_Z_LIMIT
A_IN_+
A_IN_-
B_IN_+
B_IN_-
GND
+15V
-15V
+HIV
-HIV
U4:B
U4:C
U4:A
U1A:A
U1A:C
U1B:A
U1B:C
U2:B
U2:A
U2:D
U2:C
U3A:A
U3A:B
U3A:C
U3A:D
U3A:E
U3B:A
U3B:B
TL072
TL074CN
LM13600N
BC560C
BC550C
TO92
2N5401
{Function} Dual VCA 6745
Product M1610
AmpIn
PCB# M1190
Sheet 1 of 4
Date: Thu May 29, 2008
Rev:v9.00
YsType:.
Filename: M1190V900sch.sch2002
Yorkville



Amp A

Product **M1610**			
Channel A	PCB# M1190	Sheet 2 of 4	
Date: Thu May 29, 2008	Rev:v9.00	YsType:.	
Filename: M1190V900sch.sch2002			

Yorkville

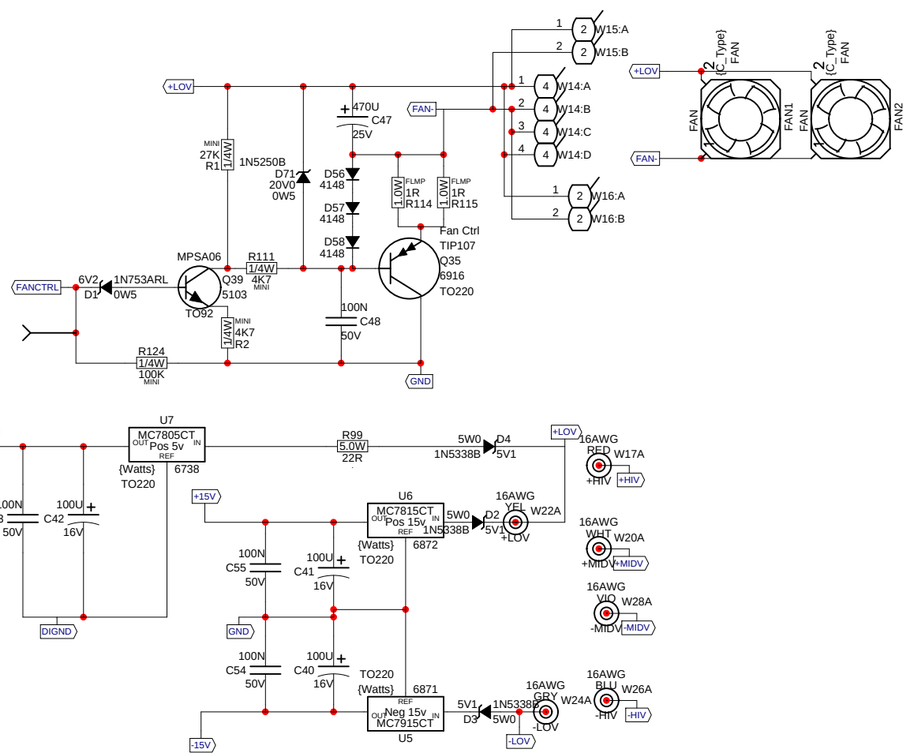

AMPB_SIGNAL
AMPB_CURRENT
+15V
-15V
GND
+HIV
-HIV
+MIDV
-MIDV
+LOV
-LOV
Pos Driver
MJE350
Q20B
6874
TO126
Neg Driver
MJE340
Q21B
6873
TO126
Pos Driver
MJE15032
Q16B
6808
TO220
Neg Driver
MJE15033
Q17B
6809
TO220
IRL2910
Q15B
6966
TO220
Hi Tier +
IRL2910
Q14B
6966
TO220
Mid Tier +
IRL2910
Q24B
6966
TO220
Hi Tier +
IRL2910
Q25B
6966
TO220
Mid Tier +
MJ21196
Q12B
6909
TO3
Lo Tier+
MJ21196
Q26B
6909
TO3
Lo Tier+
MJ21195
Q13B
6910
TO3
Lo Tier-
MJ21195
Q27B
6910
TO3
Lo Tier-
IRF4905
Q18B
6953
TO220
Mid Tier-
IRF4905
Q28B
6953
TO220
Mid Tier-
IRF4905
Q19B
6953
TO220
Hi Tier-
IRF4905
Q29B
6953
TO220
Hi Tier-
TLO74CN
U3B:C
2N5551
Q5B
5107
TO92
2N5401
Q6B
5108
TO92
MPSA42
Q8B
5113
TO92
MPSA63
Q7B
5106
TO92
BC550C
Q9B
5101
TO92
MPSA06
Q10B
5103
TO92
MPSA56
Q11B
5104
TO92
SPKR
1/4in JCK
SLEEVE
TIP
J2B
3924
J1B
3924
J3B:A
Euro Output
SPEAKON 4C
3628
J3B:B
Euro Output
SPEAKON 4C
3628
K1B:A
3722
L1B
4UH
3820
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
TP1B
TP2B
COM2+_B
COM2-_B
Amp B
Product M1610
Channel B
PCB# M1190
Sheet 3 of 4
Date: Thu May 29, 2008
Rev:v9.00
YsType:.
Filename: M1190V900sch.sch2002
Yorkville

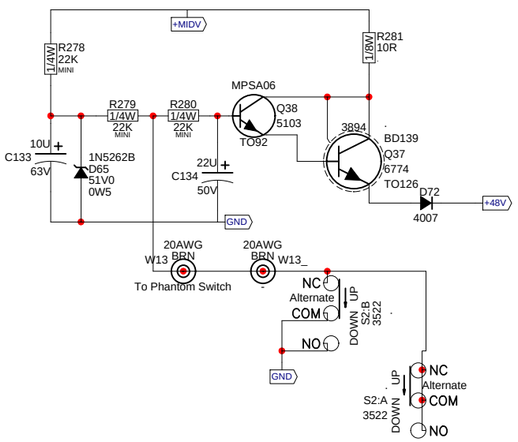
M1190.PCB_DATABASE_HISTORY

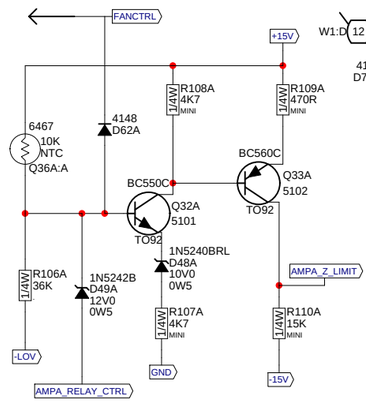
MODEL(S):- M1610

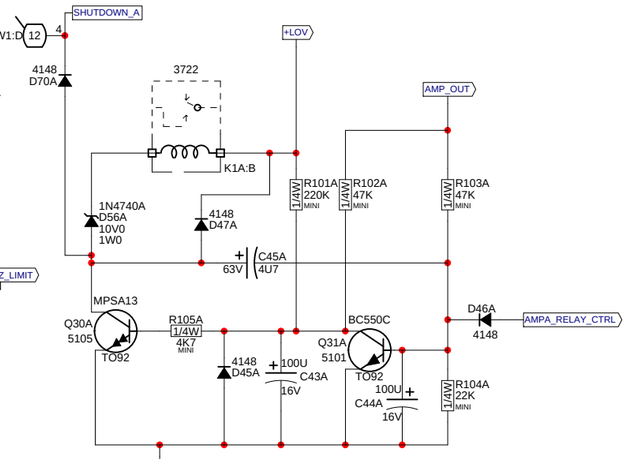
#	DATE	VER#	DESCRIPTION OF CHANGE
1	7 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	21-APR-2004	1.00	PC#6681 Modify route to let grn wire pass board near pot cap
5	6-MAY-2004	2.00	PC#6684 R83(A,B)->5K6,R5(A,B)6K8->18K,
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

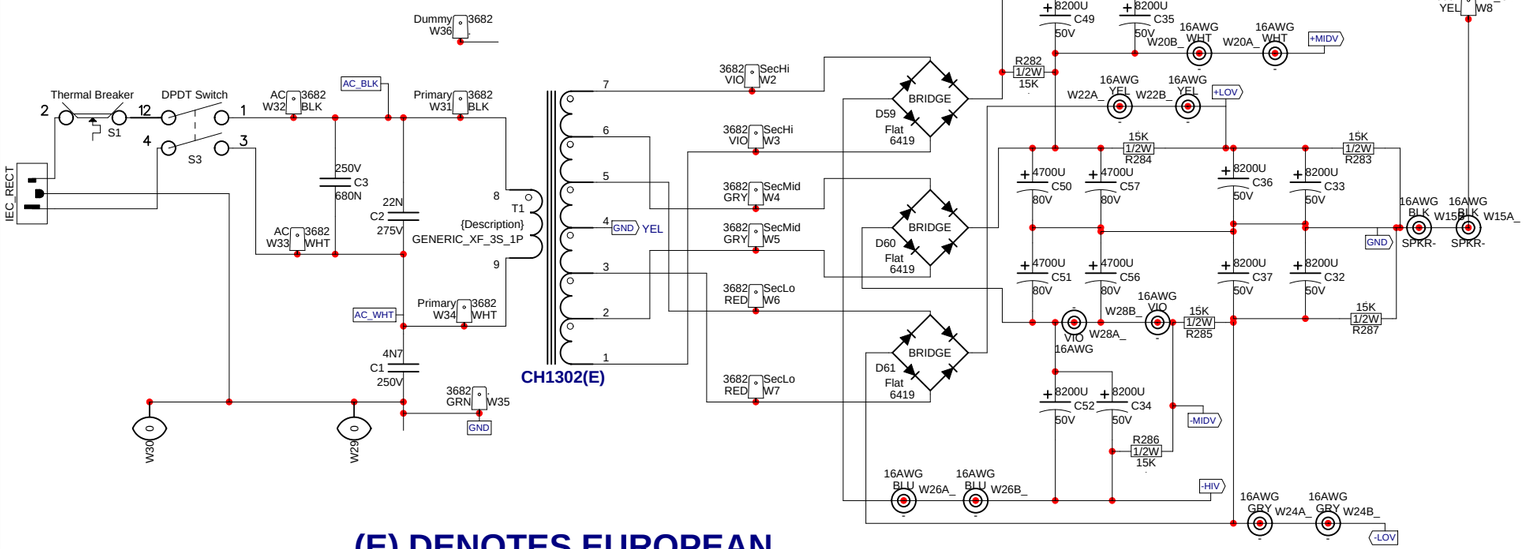
#	DATE	VER#	DESCRIPTION OF CHANGE
24	.	.	R79A&B #6127 470K->#6127 220K
25	.	.	ADDED D4 #5124 5V1/5W, R97&R98 #2006 1R/1W->#5124
26	.	.	Corrected the position of some test nodes.
27	.	.	Fixed BlankSize field
28	Jun-15-2006	7.00	AH, PC#7021, SPACE BETWEEN R96 AND R53
29	.	.	PC#6983, WIDEN TRACE BETWEEN 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	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

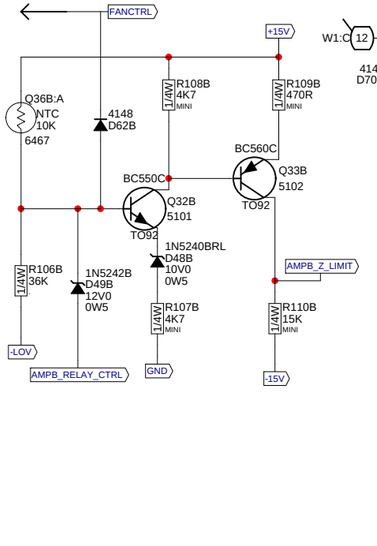


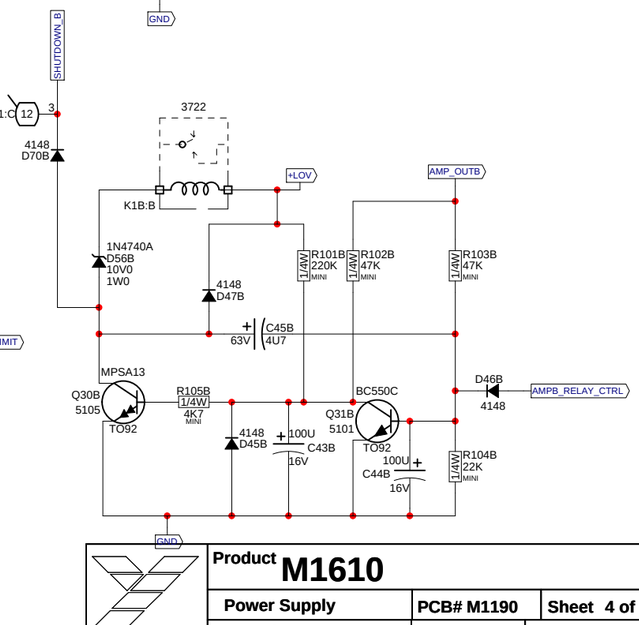












(E) DENOTES EUROPEAN

Yorkville	**Product M1610**	
Power Supply	**PCB# M1190**	**Sheet 4 of 4**
Date: Thu May 29, 2008	**Rev:v9.00**	**YsType:.**
Filename: M1190V900sch.sch2002		

Pcb Mech M1190V9.00
Top Assy M1190V9.00

Wave Solder ----------> BlankSize - 18000x11000

ETCH GUIDE

Set P1 for 8mv between TP1 and TP2

Heatsink covers this area

USE 2 OZ COPPER

M1190 1/2
M1610
V9.00

M1190 2/2
V9.00

BEC
LOC

CLUTCH ORIGIN

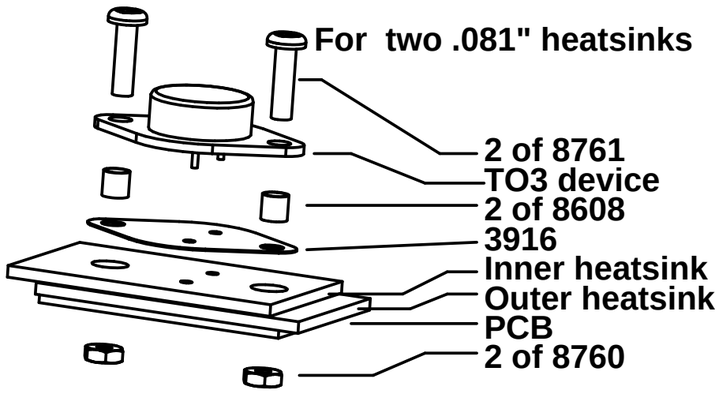
INSERT ORIGIN

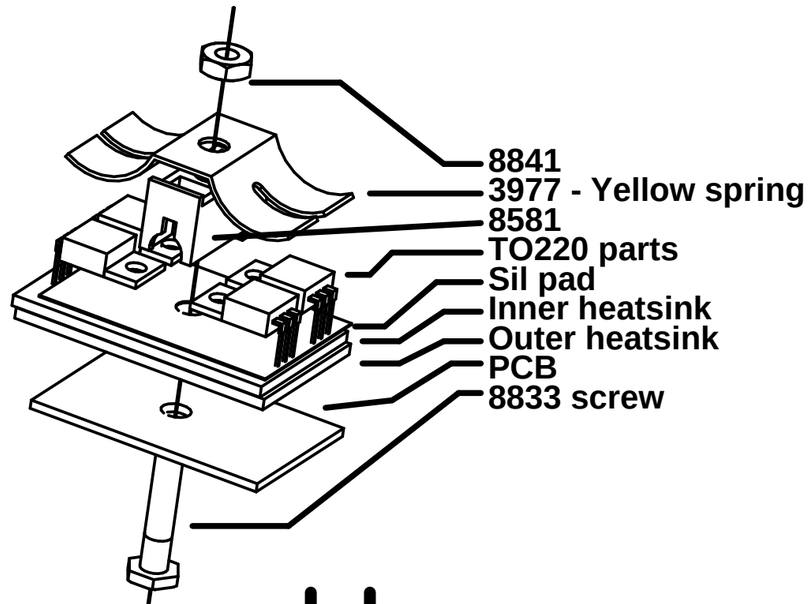
SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

M1190 PRODUCTION NOTES

1. Use three 8832 screws to allign 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 amoun 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	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

M1190 Drill History

MODEL(S):- M1610

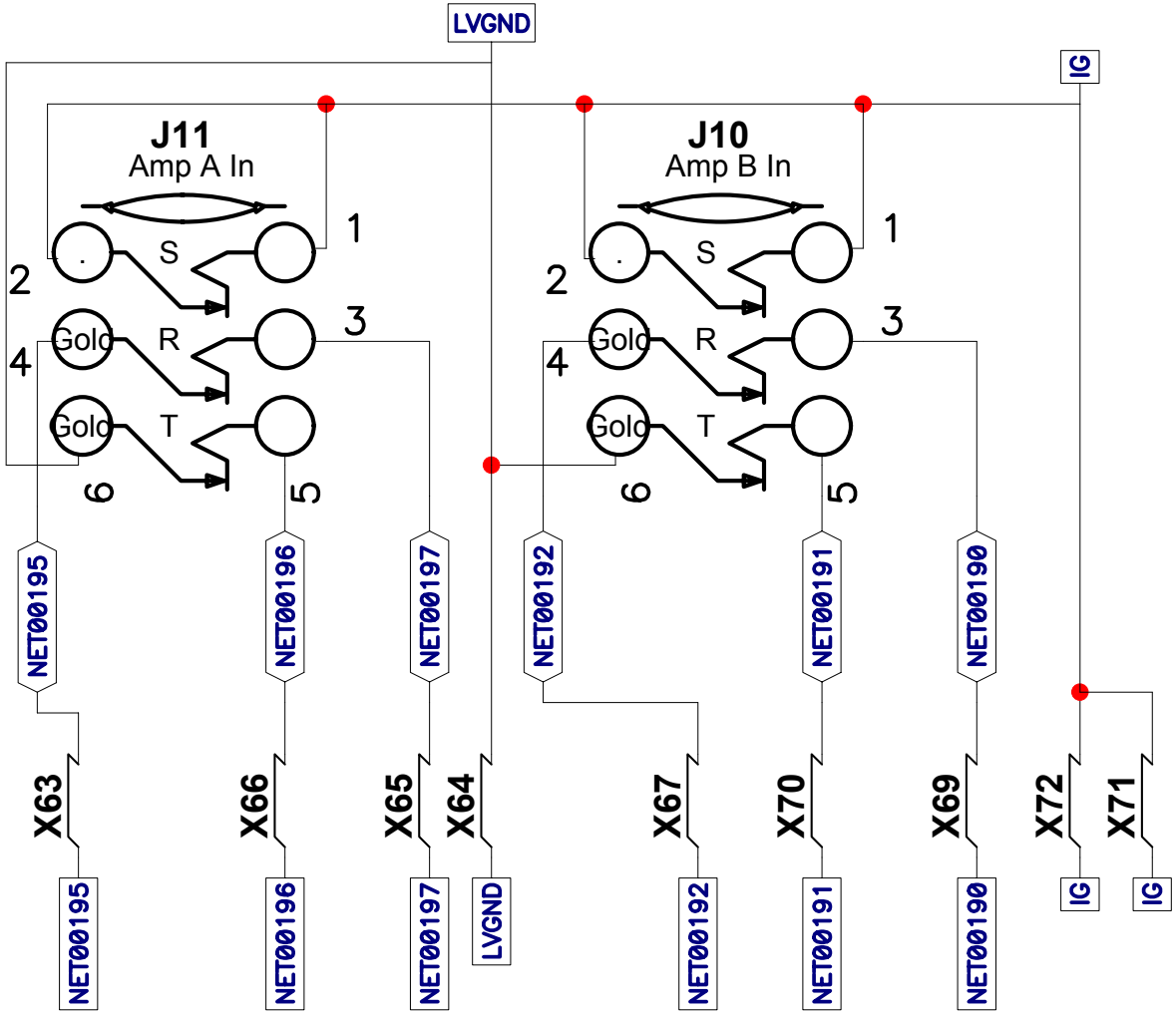
#	DATE	VER#	DESCRIPTION OF CHANGE
1	5-MAY-2004	V03	Added notch to pass GRN wire from front
2	6-MAY-2004	V04	To match V2.00 changes
3	NOV-05-2004	V05	HG:PC#6730:REMOVED EXTRA ROUTING BITS
4	AUG-26-2005	V07	GT:CHANGES FOR 6V00 RELEASE. SEE HISTORY BOX
5	2008/04/25	V08	Solder updates.
6	2008/05/29	V09	PC#7590

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

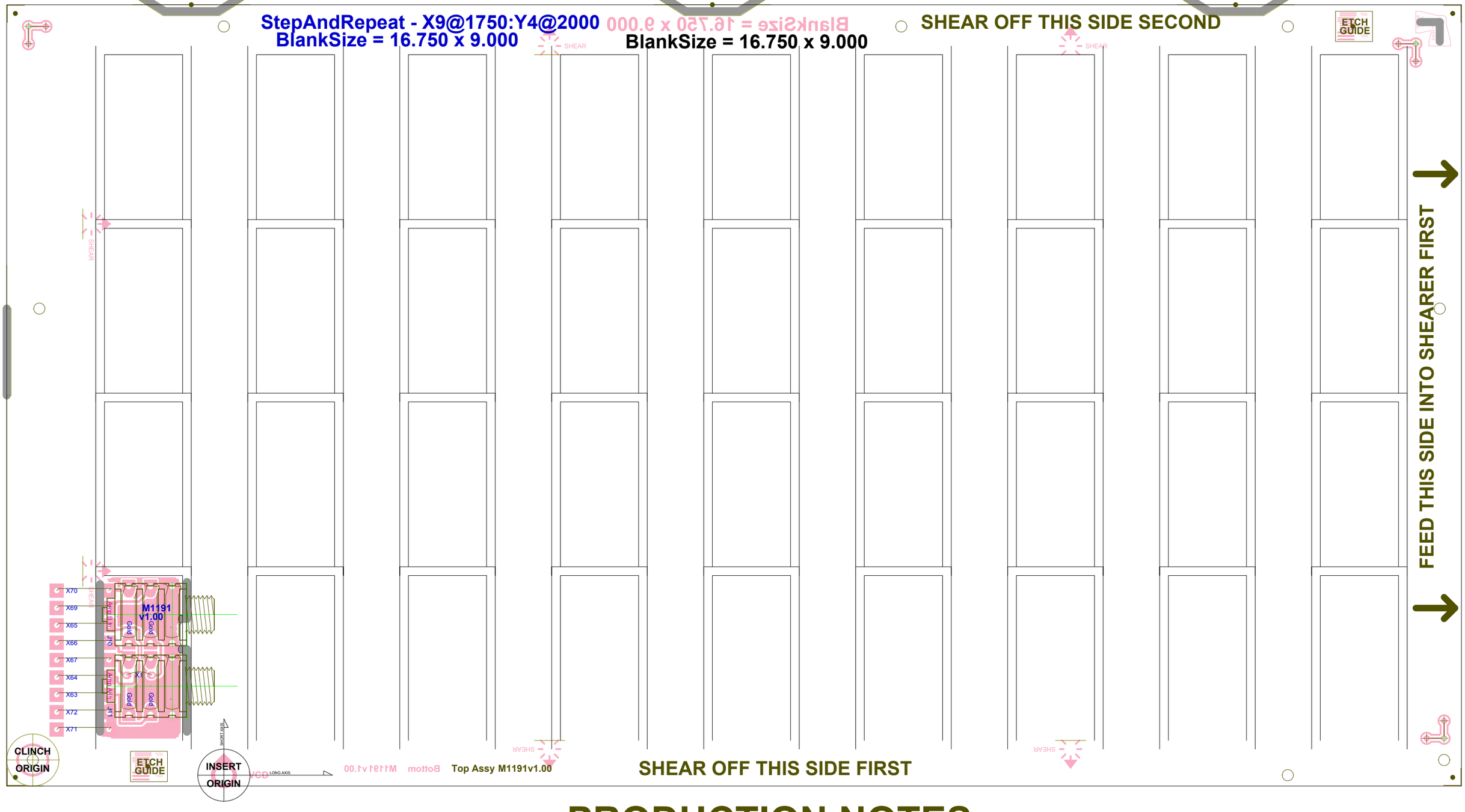
*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY



Yorkville

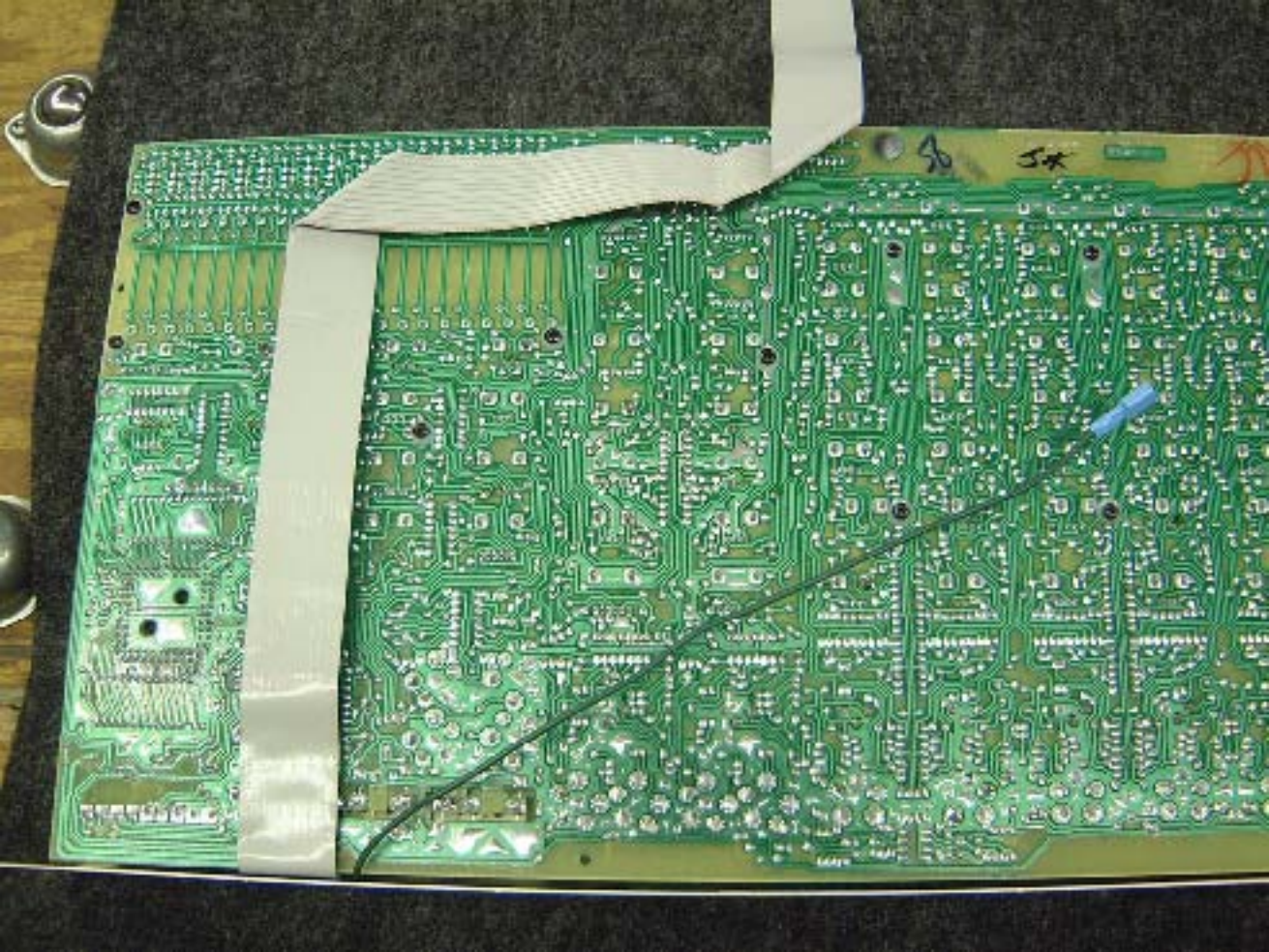
Product **M1610**

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.



Record Out
50K 4B P21:B 4441
C49 47P 100V
RECLEFT C46 33U 16V
TLO74CN U6:D
U6:C U6:E TLO74CN
RECRIGHT C45 33U 16V
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 50K B
C55 33U 16V
MINI 2K2 1/4W R148
MINI 10K 1/4W R167
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
BC550C Q9 5101 TO92
Power/TempOK LD18 GRN 5908
MINI 33K 1/4W R273
D33 4148 D34 4148
AMP_CLIP_B AMP_CLIP_A
CLIPREF CLIPREFM
D35 4148
0W5 8V2 D8 1N5237B
C105 22U 50V
LED_SUPPLY -15V -15LED
Copper Tie Here

J10 LINE_IN
J11 LINE_IN
Gold S R T
X86 X70 X72 X71 X101 X100 X66 X9 X99 X67
NET00192 NET00191 NET00190 NET00195 NET00196 NET00197
R159 1K 1/4W MINI
R158 1K 1/4W MINI
R156 1K 1/4W MINI
R155 1K 1/4W MINI
R160 10R 1/8W
R157 10R 1/8W
W2:L W2:K W2:J W2:H W2:G W2:F W2:E W2:D W2:C W2:B W2:A
To Power Amp

R120 1/4W 620R MINI
PCB MT {Details} GOLD 24MM
REC Output
#3466 J7
GND_TIE_POINT
Chassis Gnd {Color} W3 {AWG}
R119 1/4W 620R MINI

LEFT C44 33U 16V
L&R Master
20K P17:A 15A 4447
C51 47P 100V
MC33079P U7:D
L_PRE_EQ
R_PRE_EQ
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
M5 Tone Controls TONE1
4148 D29
MAIN/L_EQ_IN
9 Band Graphic EQ M3
MAIN/L_EQ_OUT
D30 4148
AMP_CLIP_A
+15VLED
L/Main Clip LD16 RED 5906
MINI 33K 1/4W R271
BC550C Q8 5101 TO92
MINI 220R 1/4W R275
CLIPREF+
4148 D18

RIGHT C42 33U 16V
L&R Master
20K P17:B 15A 4447
C53 47P 100V
MC33079P U7:A
L&R/Main & Mon
S1:B 3522 UP DOWN NC COM NO
MON/R_TONE_IN
M6 Tone Controls TONE2
MON/R_EQ_IN
9 Band Graphic EQ M2
MON/R_EQ_OUT
D31 4148
D28 4148
D17 4148
D19 4148
AMP_CLIP_B
R/Mon Clip LD15 RED 5906
MINI 33K 1/4W R270
MINI 220R 1/4W R269
BC550C Q7 5101 TO92
CLIPREF+

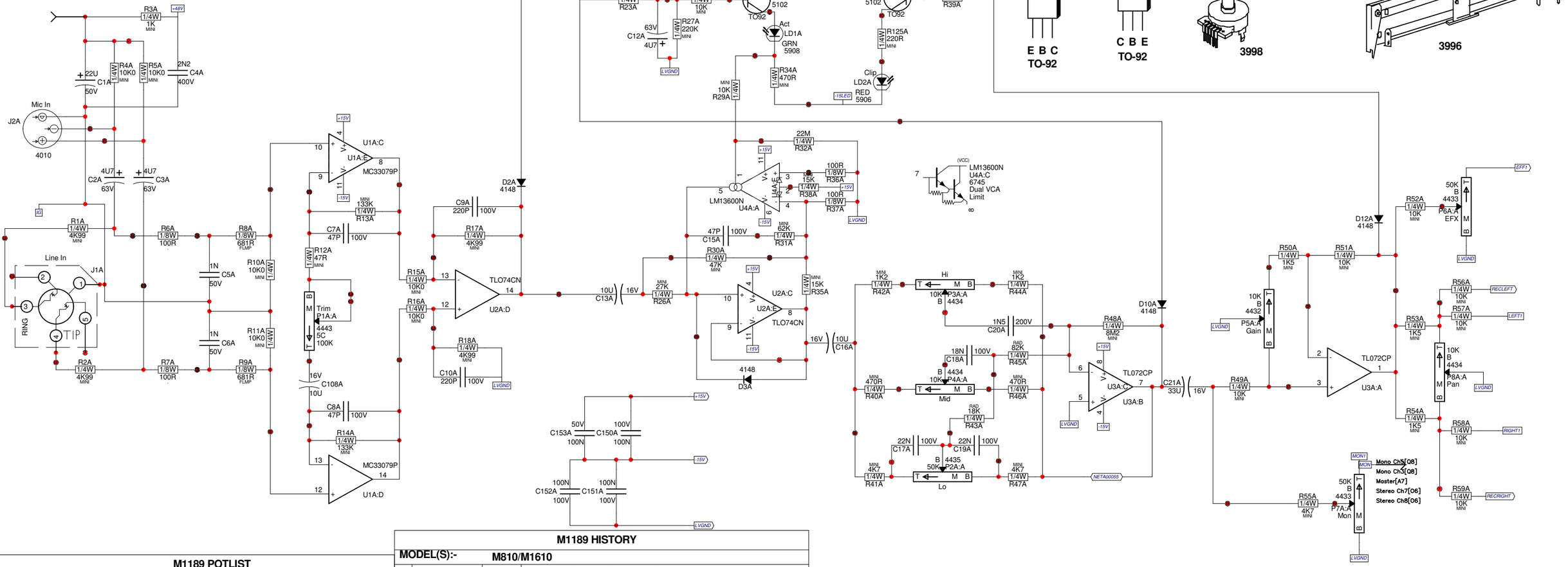
MON
Mono Ch5[08]
Mono Ch3[08]
Mono Ch1[07]
Stereo Ch7[08]
Stereo Ch8[08]
C43 33U 16V
Mon Master
20K P18:A 4B 4426
C52 47P 100V
MC33079P U7:E U7:C
MON_PRE_EQ

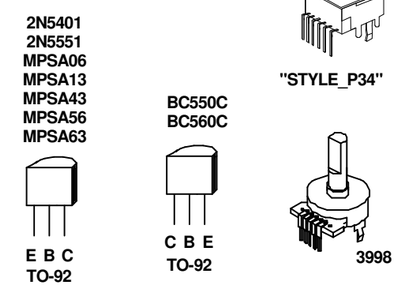
C101 47P 100V
R250 1/4W 10K0 MINI
R245 1/4W 10K0 MINI
TLO74CN U10:E
U10:C
R247 1/4W 10K0 MINI
R248 1/4W 10K0 MINI
R246 1/4W 620R MINI
R249 1/4W 620R MINI
RING TIP
Left/Mono Pre J18
C69 47P 100V
R162 1/4W 10K0 MINI
R244 1/4W 10K0 MINI
TLO74CN U10:D
R237 1/4W 620R MINI
R239 1/4W 620R MINI
Right Pre J17
R240 1/4W 10K0 MINI
R242 1/4W 10K0 MINI
C58 47P 100V
R161 1/4W 10K0 MINI
R243 1/4W 10K0 MINI
TLO74CN U10:B
R236 1/4W 620R MINI
R238 1/4W 620R MINI
L/Main Post J16
R163 1/4W 10K0 MINI
R241 1/4W 10K0 MINI
C57 47P 100V
R151 1/4W 10K0 MINI
R154 1/4W 10K0 MINI
TLO74CN U10:A
R166 1/4W 620R MINI
R235 1/4W 620R MINI
R/Mon Post J15
R152 1/4W 10K0 MINI
R153 1/4W 10K0 MINI
C56 47P 100V
R146 1/4W 10K0 MINI
R149 1/4W 10K0 MINI
TLO74CN U9:D
R164 1/4W 620R MINI
R165 1/4W 620R MINI
Monitor Out J14
R147 1/4W 10K0 MINI
R150 1/4W 10K0 MINI

EFF
Mono Ch6[04]
Stereo Ch7[06]
Stereo Ch8[06]
C47 33U 16V
C50 47P 100V
R118 1/4W 10K MINI
TLO74CN U9:C
50V 220N C3
50K B 4433 P19:A EFX to Main
LEFT
50K B 4437 P20:A EFX to Main
RIGHT
50K B 4437 P20:B EFX to Main
R127 1/4W 10K MINI
R128 1/4W 10K MINI
R129 1/4W 10K MINI
R130 1/4W 10K MINI
R133 1/4W 20K0 MINI
R135 1/4W 20K0 MINI
R134 1/4W 20K0 MINI
TL072CP U58:C U58:B U58:A
R139 1/4W 2K7
R138 1/4W 2K7
R140 1/4W 3K6
FX Select P11FX:A 6578 ROT COM 0 1 2 3
FX Modify B M T P12FX:A 4434 10K B
BIT3 BIT0 BIT1 BIT2
NET00030
NET00019
FX_OUT1 FX_OUT2 ART_GND
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 Clip Vin -SFX NC1
FX Clip D1FX RED 5906 100R R7FX 1/8W
ART_IN
R142 1/4W 4K7 MINI
R143 1/4W 1K2 MINI
R136 1/4W 20K0 MINI
TLO74CN U9:E
U9:B
R232 1/4W 20K0 MINI
R131 1/4W 10K0 MINI
33U C102 16V
R132 1/4W 10K0 MINI
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
EFX Footswitch J19
ART_GND NET00182 ART_GND
+15VLED NET00195 -SFX ART_IN

Yorkville
Product M1610
Master | PCB# M1189 | Sheet 1 of 14
Date: Fri Apr 18, 2008 | Rev: v5.00 | YsType: 1032
Filename: M1189V500sch.sch2002

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
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	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

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

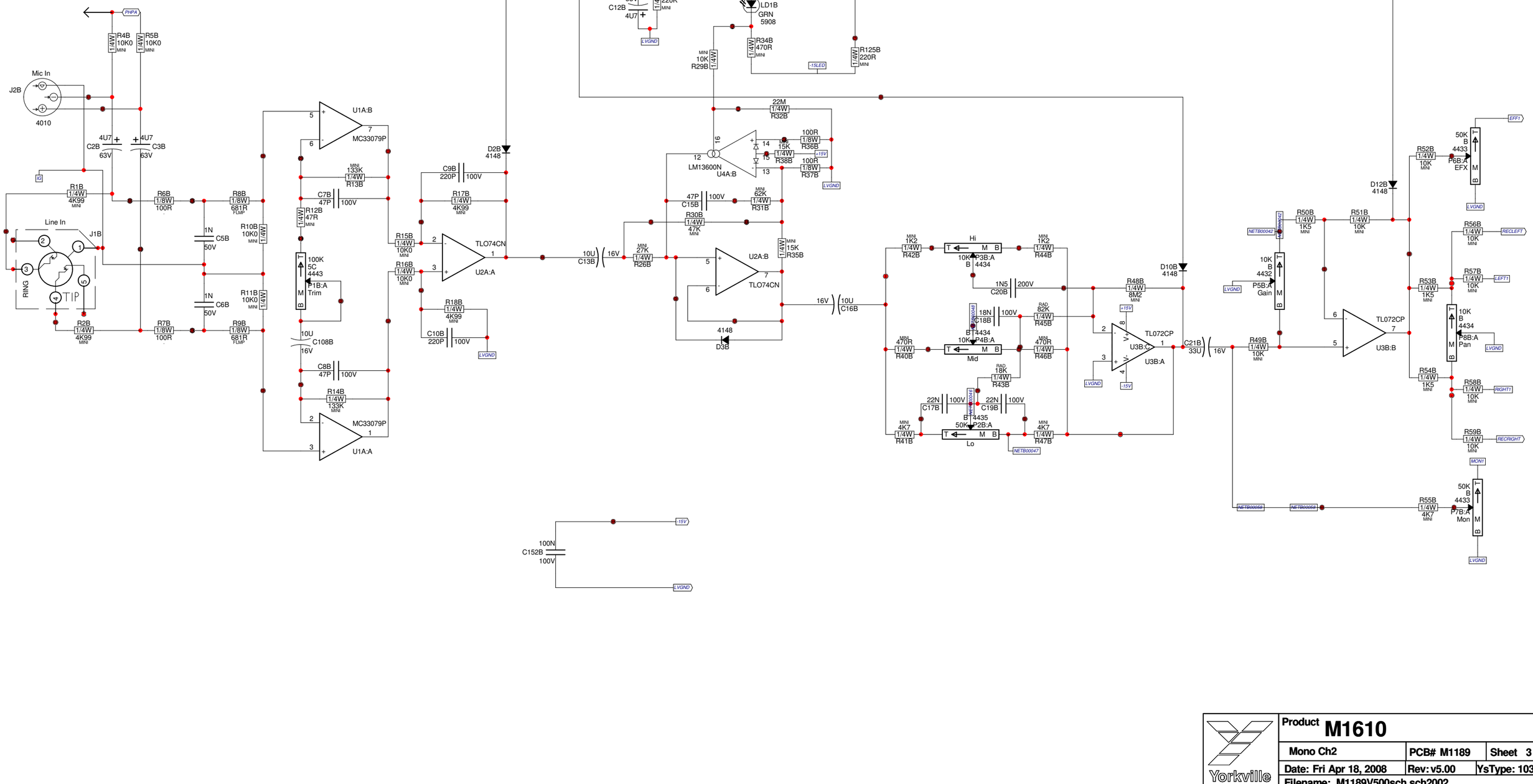
MODEL(S):- M810/M1610

#	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

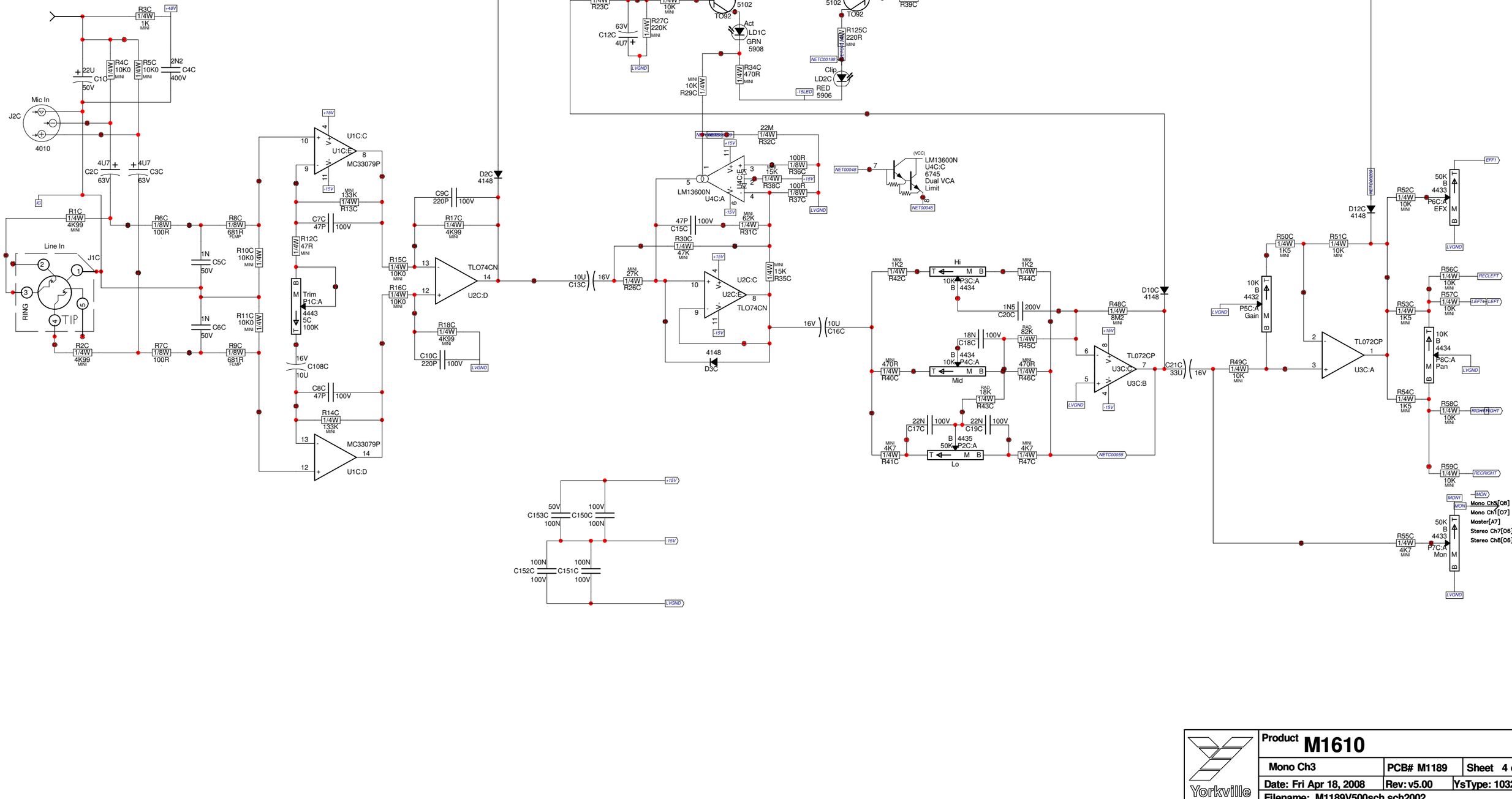
Yorkville

Product **M1610**

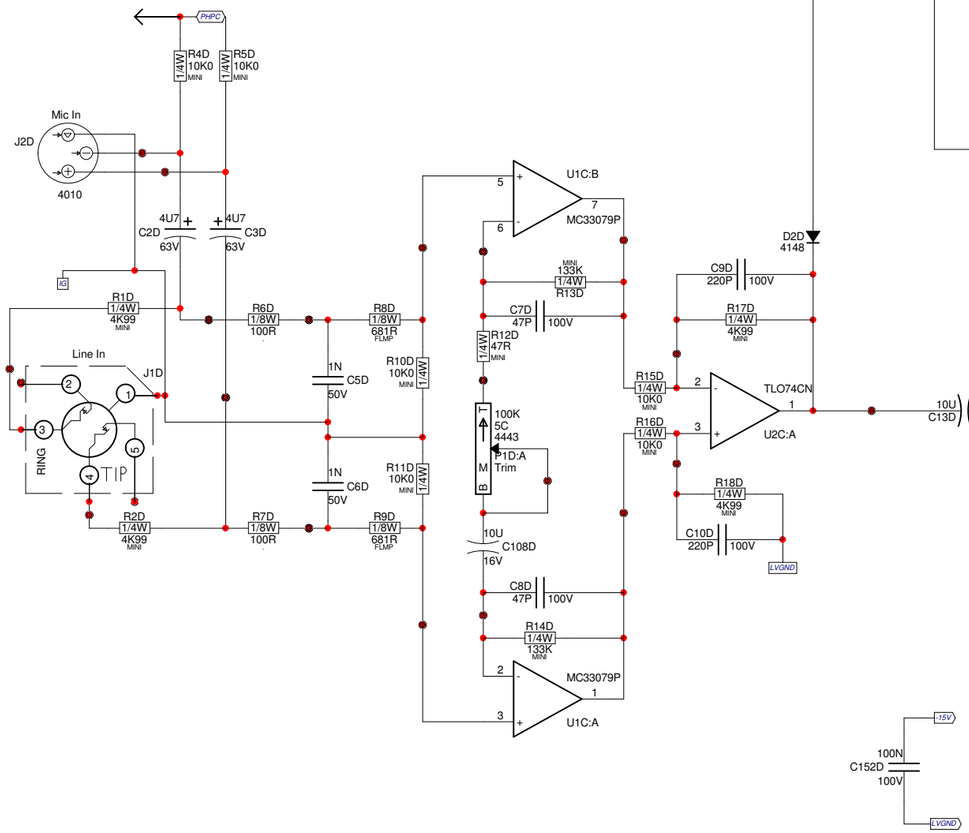
Mono Ch1	PCB# M1189	Sheet 2 of 14
Date: Fri Apr 18, 2008	Rev: v5.00	YsType: 1032
Filename: M1189V500sch.sch2002		



Yorkville	Product **M1610**		
	Mono Ch2	PCB# M1189	Sheet 3 of 14
	Date: Fri Apr 18, 2008	Rev: v5.00	YsType: 1032
	Filename: M1189V500sch.sch2002		

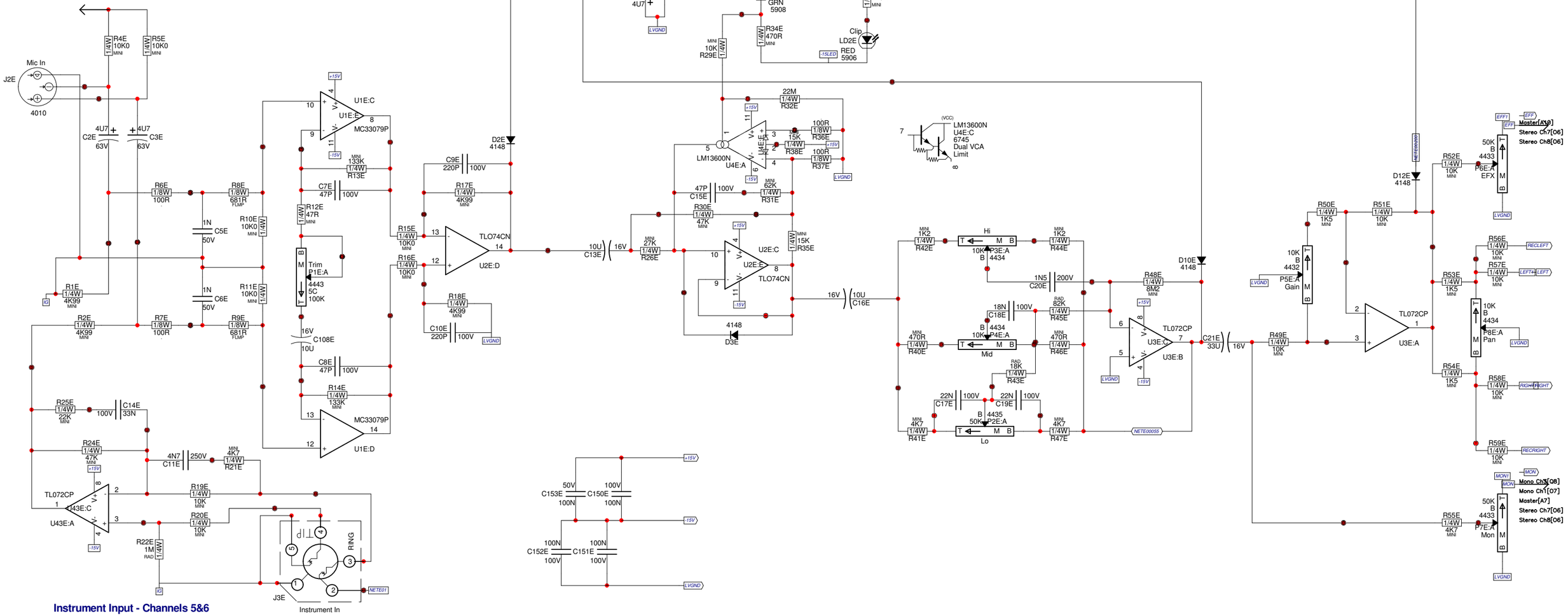


Yorkville	Product **M1610**		
	Mono Ch3	PCB# M1189	Sheet 4 of 14
	Date: Fri Apr 18, 2008	Rev: v5.00	YsType: 1032
	Filename: M1189V500sch.sch2002		

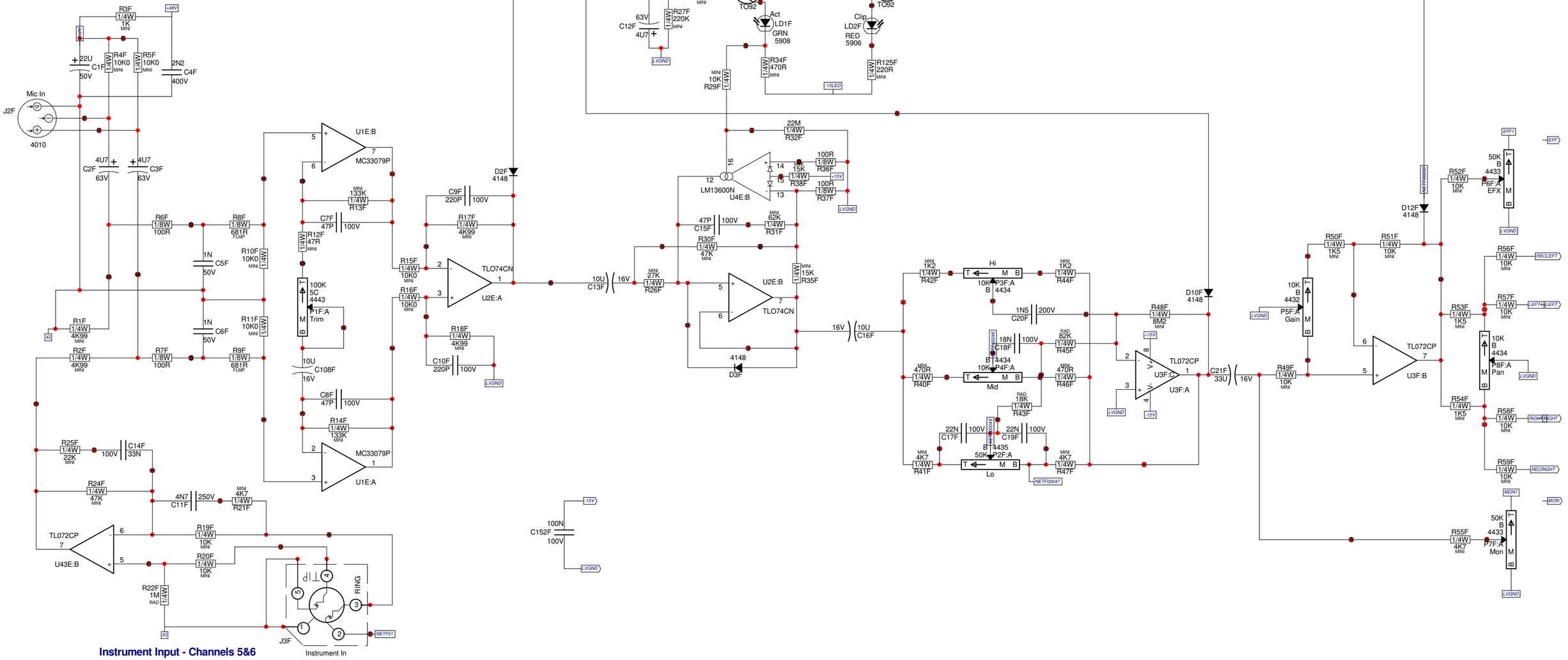


Yorkville	Product **M1610**		
	Mono Ch4	PCB# M1189	Sheet 5 of 14
	Date: Fri Apr 18, 2008	Rev: v5.00	YsType: 1032
	Filename: M1189V500sch.sch2002		

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

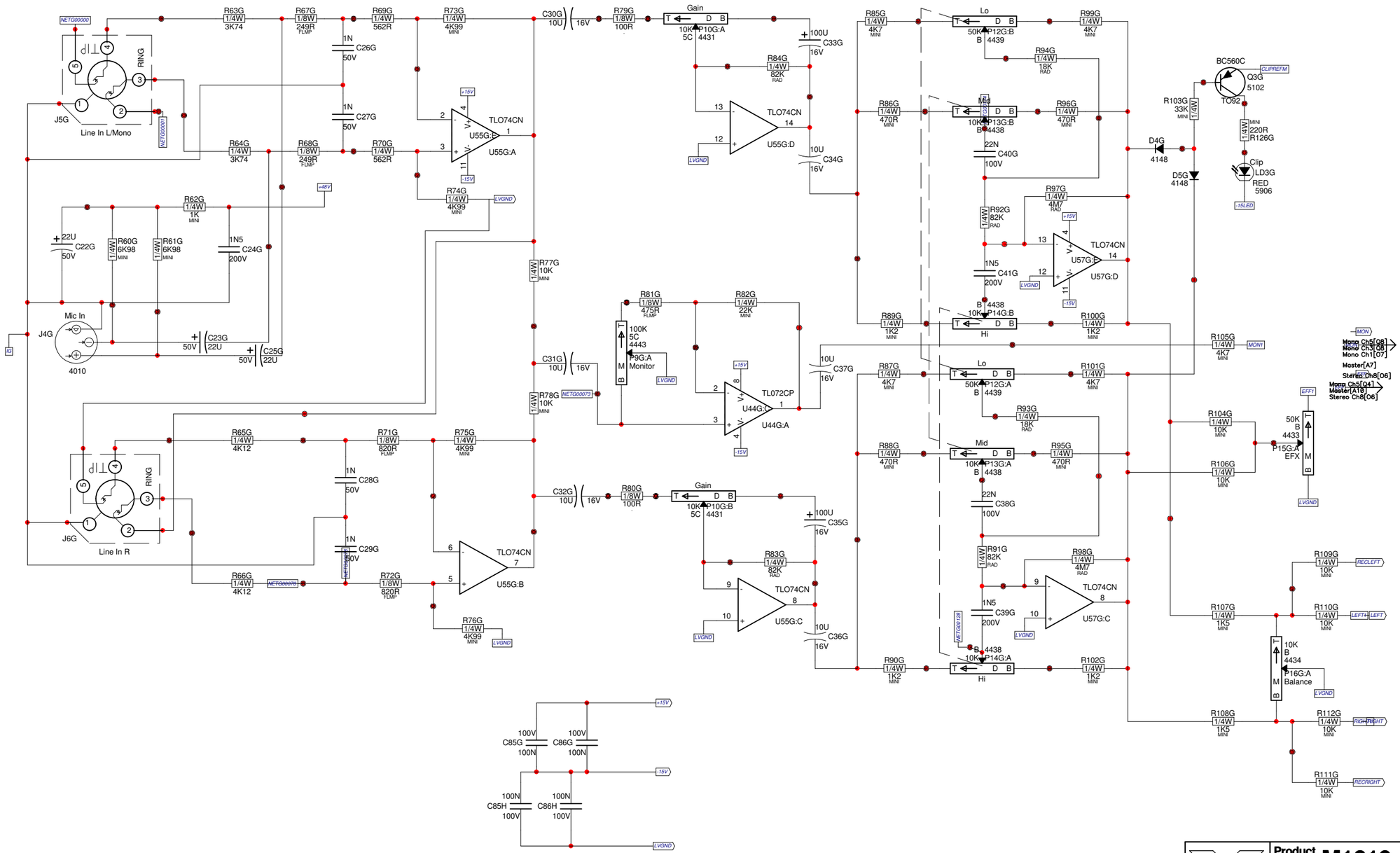


Yorkville	Product **M1610**		
	Mono Ch5	PCB# M1189	Sheet 6 of 14
	Date: Fri Apr 18, 2008	Rev: v5.00	YsType: 1032
	Filename: M1189V500sch.sch2002		

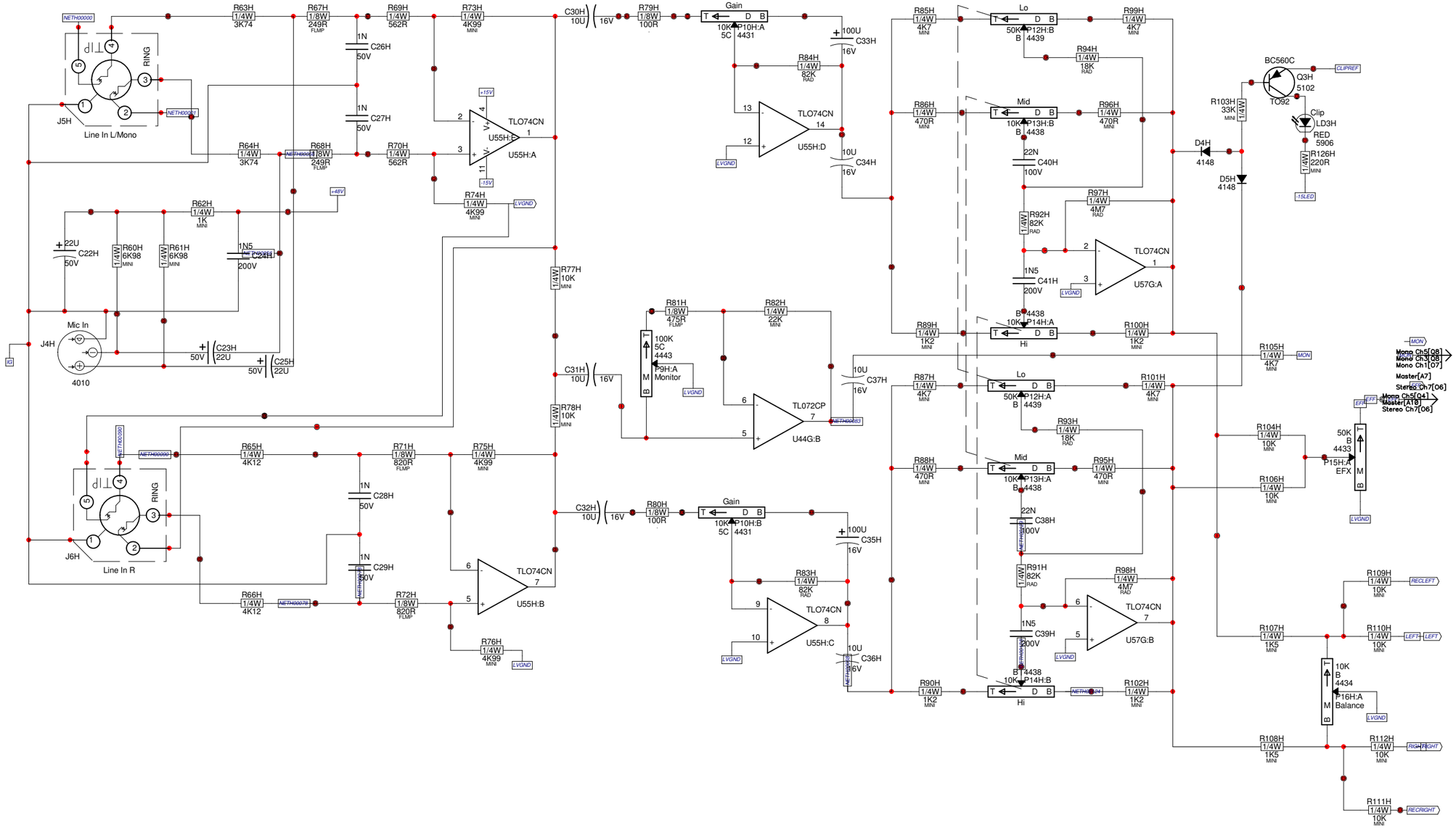


Yorkville	Product **M1610**		
	Mono Ch6	PCB# M1189	Sheet 7 of 14
	Date: Fri Apr 18, 2008	Rev: v5.00	YsType: 1032
	Filename: M1189V500sch.sch2002		

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

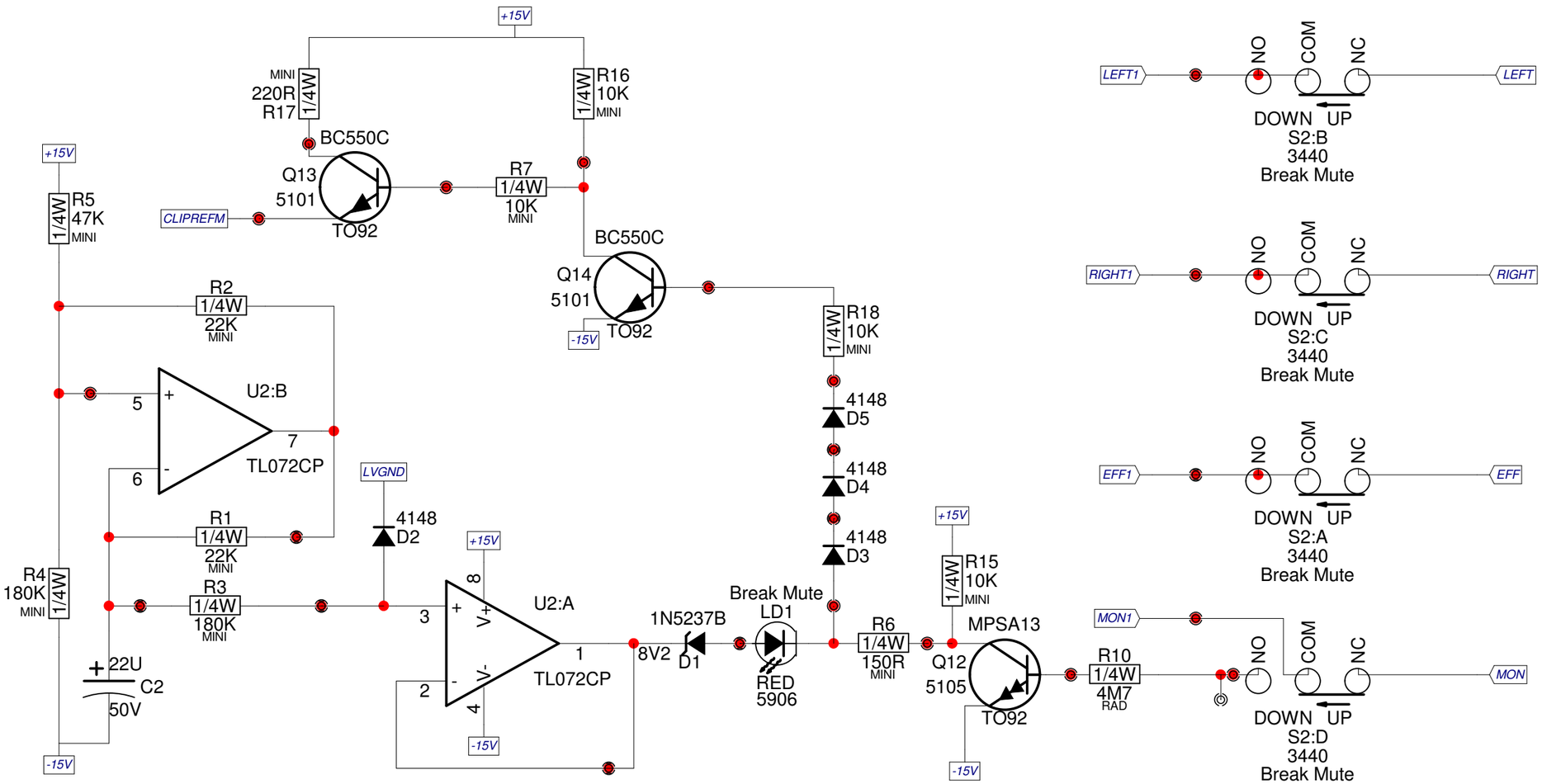


Yorkville	Product **M1610**		
	Stereo Ch7	PCB# M1189	Sheet 8 of 14
	Date: Fri Apr 18, 2008	Rev: v5.00	YsType: 1032
	Filename: M1189V500sch.sch2002		



Product	**M1610**
Stereo Ch8	PCB# M1189 — Sheet 9 of 14
Date: Fri Apr 18, 2008	Rev: v5.00 — YsType: 1032
Filename: M1189V500sch.sch2002	

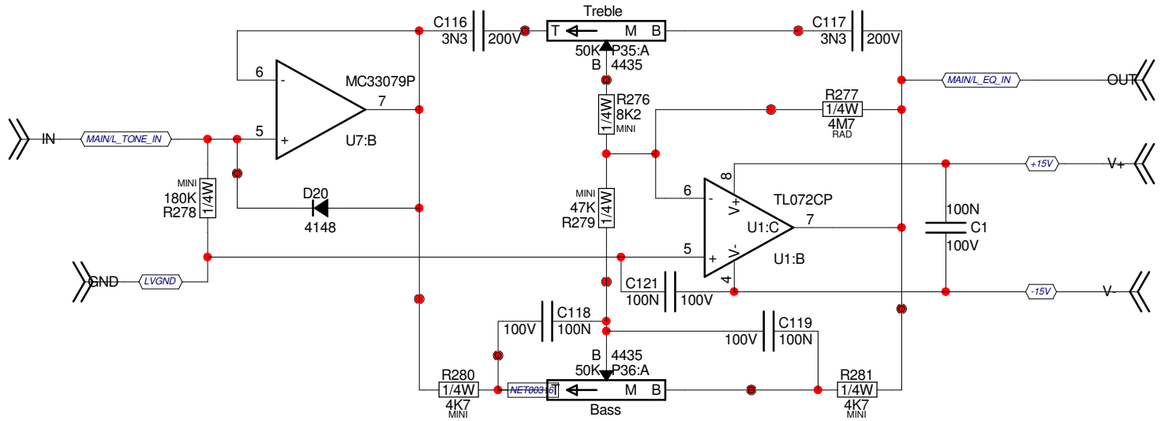
Yorkville



Yorkville

Product **M1610**

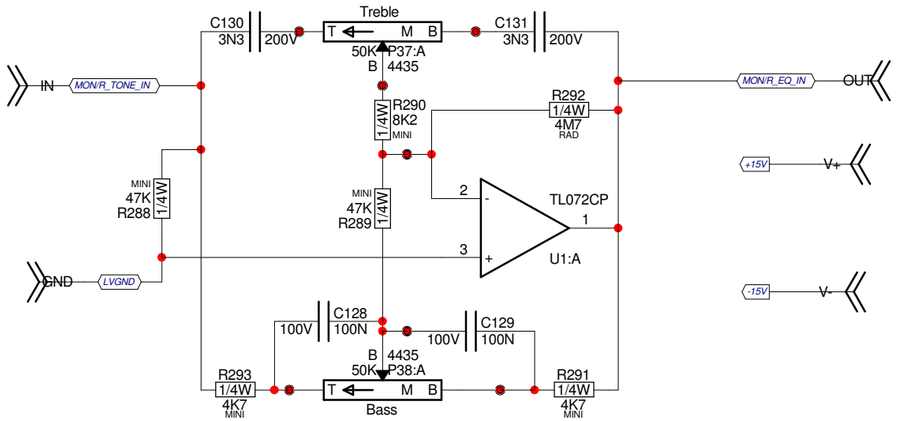
BreakMute	**PCB# M1189**	**Sheet 10 of 14**
Date: Fri Apr 18, 2008	**Rev: v5.00**	**YsType: 1032**
Filename: M1189V500sch.sch2002		



Yorkville

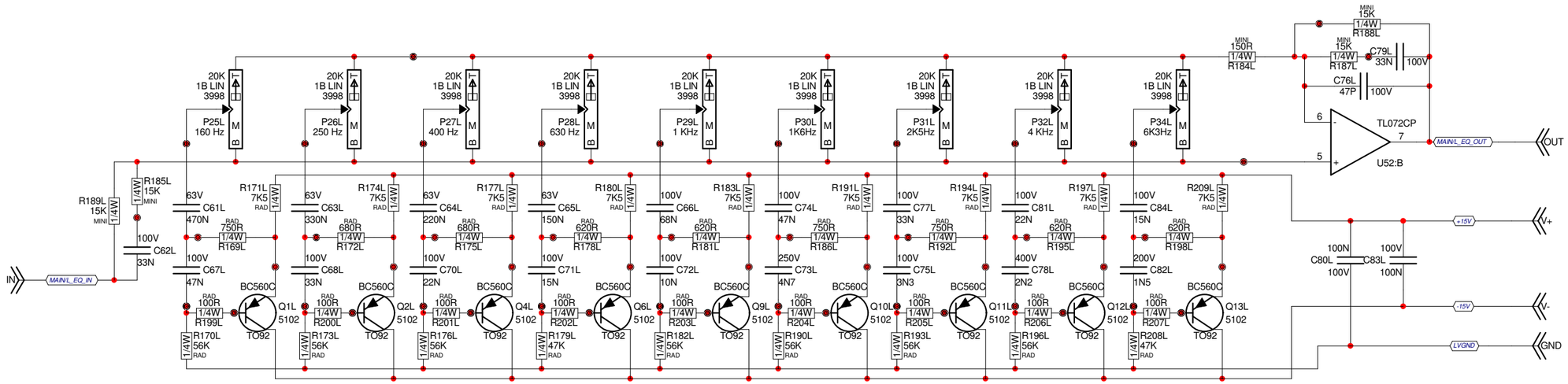
Product M1610

TONE1	PCB# M1189	Sheet 11 of 14
Date: Fri Apr 18, 2008	Rev: v5.00	YsType: 1032
Filename: M1189V500sch.sch2002		

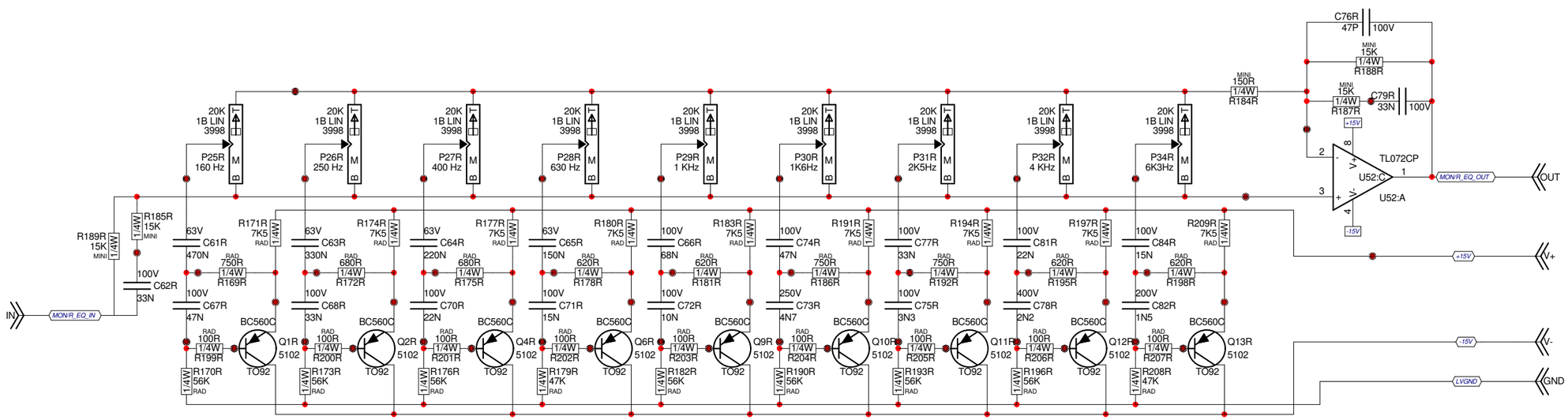


Yorkville

Product **M1610**			
TONE2	PCB# M1189	Sheet 12 of 14	
Date: Fri Apr 18, 2008	Rev: v5.00	YsType: 1032	
Filename: M1189V500sch.sch2002			



Yorkville	Product **M1610**	
	EQ1	PCB# M1189 — Sheet 13 of 14
	Date: Fri Apr 18, 2008	Rev: v5.00 — YsType: 1032
	Filename: M1189V500sch.sch2002	



Yorkville

Product **M1610**

EQ2	PCB# M1189	Sheet 14 of 14
Date: Fri Apr 18, 2008	Rev: v5.00	YsType: 1032
Filename: M1189V500sch.sch2002		

Pcb Mech M1189 v5.00
Top Assy M1189 v5.00

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

ETCH GUIDE

M1189
M1610
v5.00

YS Type - 1032

BlankSize - 18000x11000

Yorkville

Break Mute

Pitch Bend

Phantom Power

Monitor Out
EFX Footswitch

Power/TempOK

FX Select

Gold

To Power Amp W2

CLINCH ORIGIN

INSERT ORIGIN

SHORT AXIS

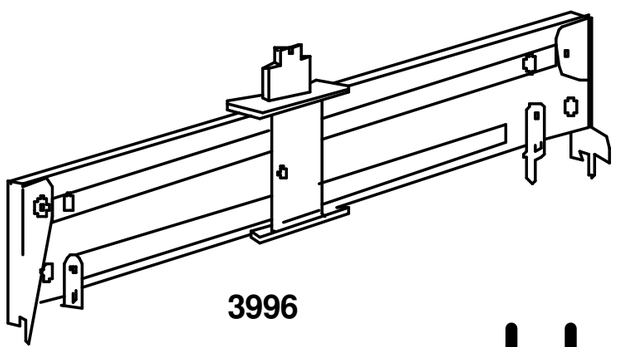
LONG AXIS

SEE LAYOUT DOCUMENTATION

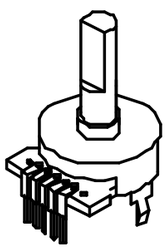
SEE LAYOUT DIAGRAM

M1189 PRODUCTION NOTES

1.



3996



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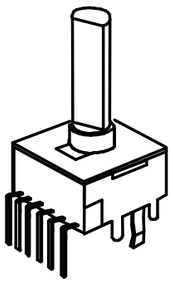

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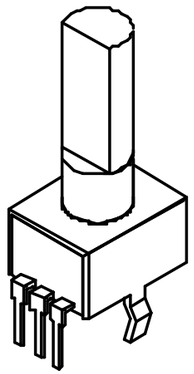

"STYLE_P32"

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2N5551
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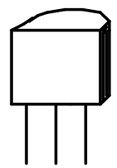
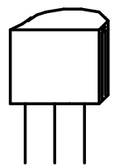
MPSA13
MPSA43
MPSA56
MPSA63



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	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

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

M810/M1610
Series 2

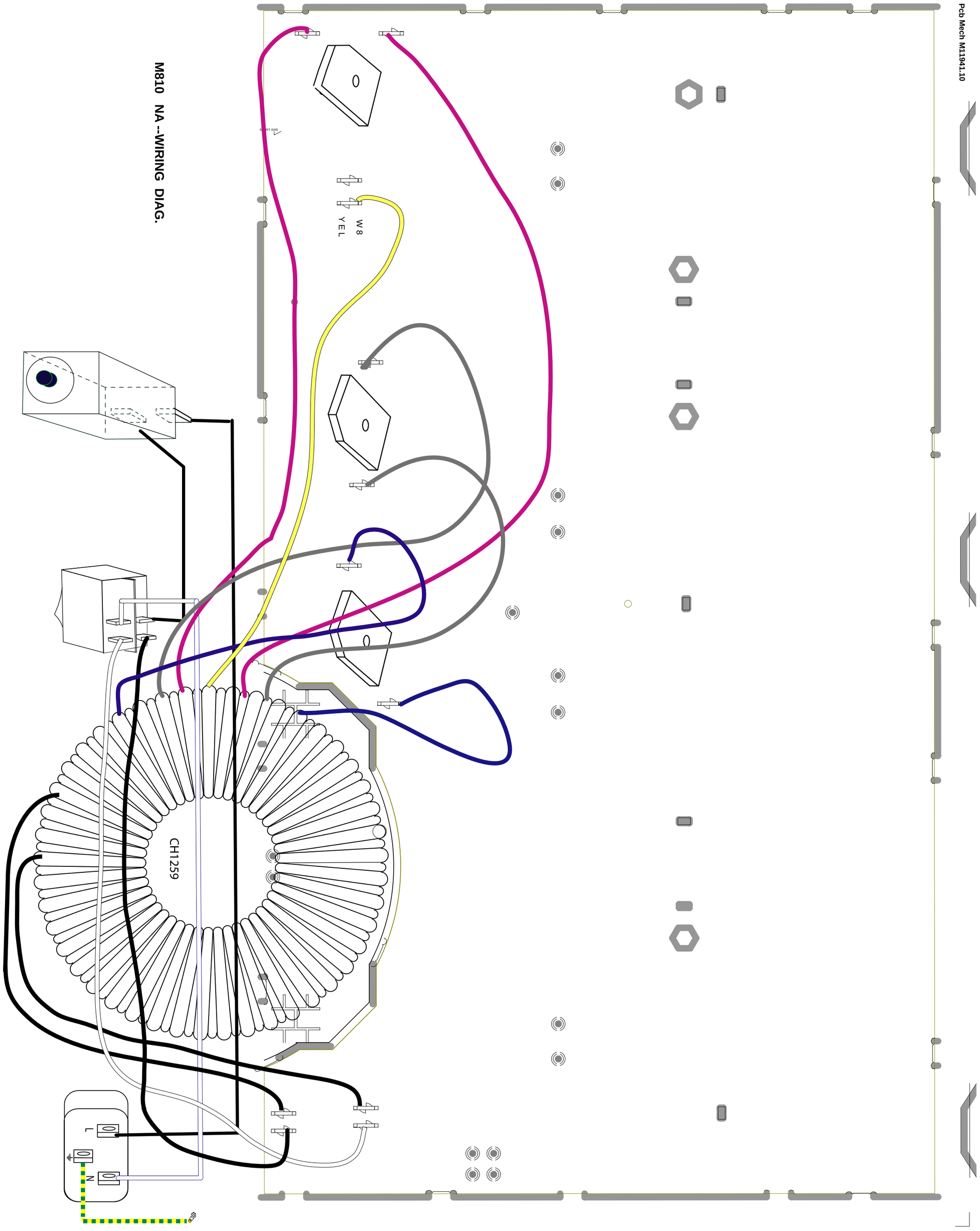
24 BIT DIGITAL EFFECTS

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

Blank Size - 17900 x 10625

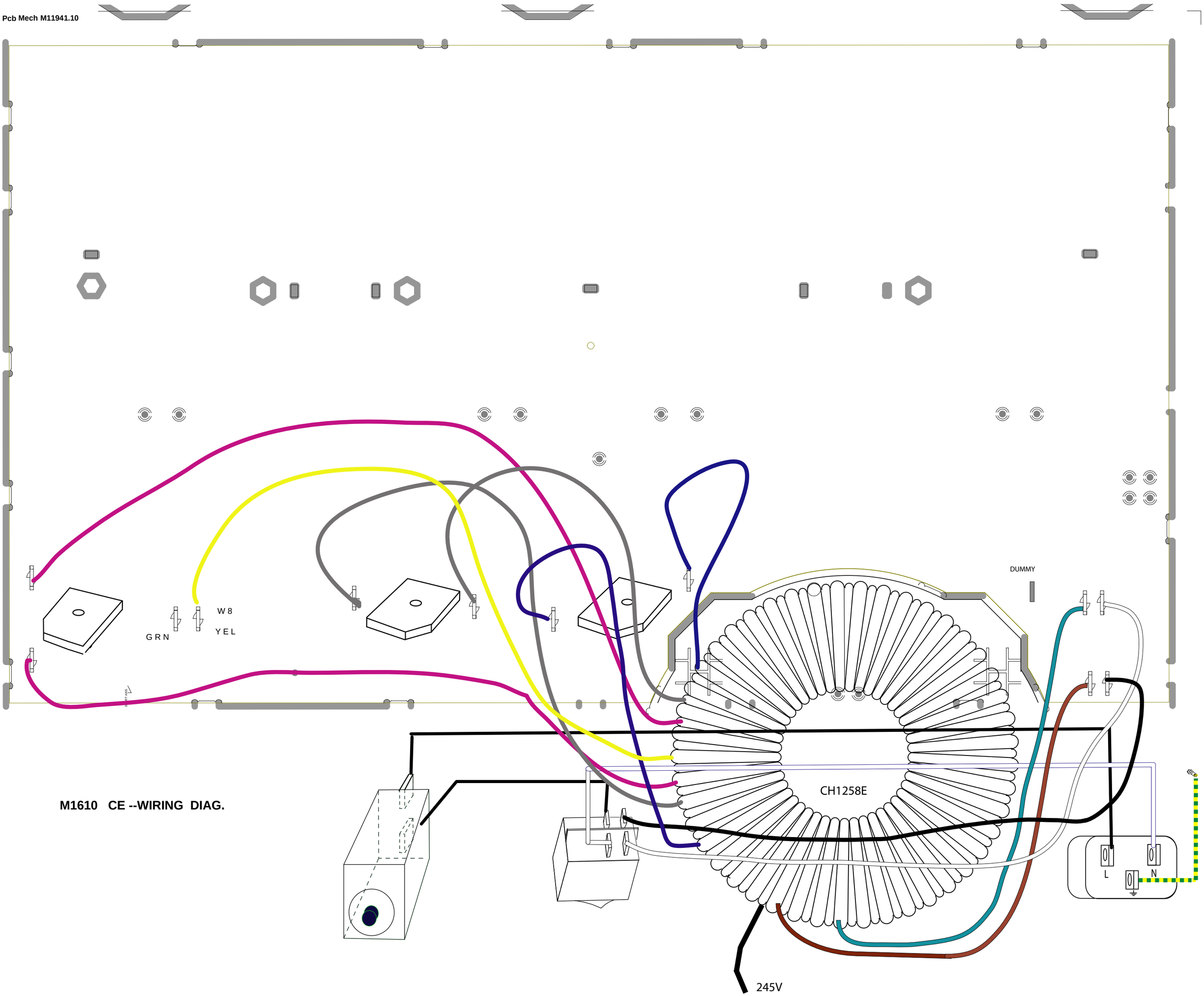
Pcb Mech M11941.10

M810 NA --WIRING DIAG.



Pcb Mech M11941.10

Blank Size - 17900 x 10625

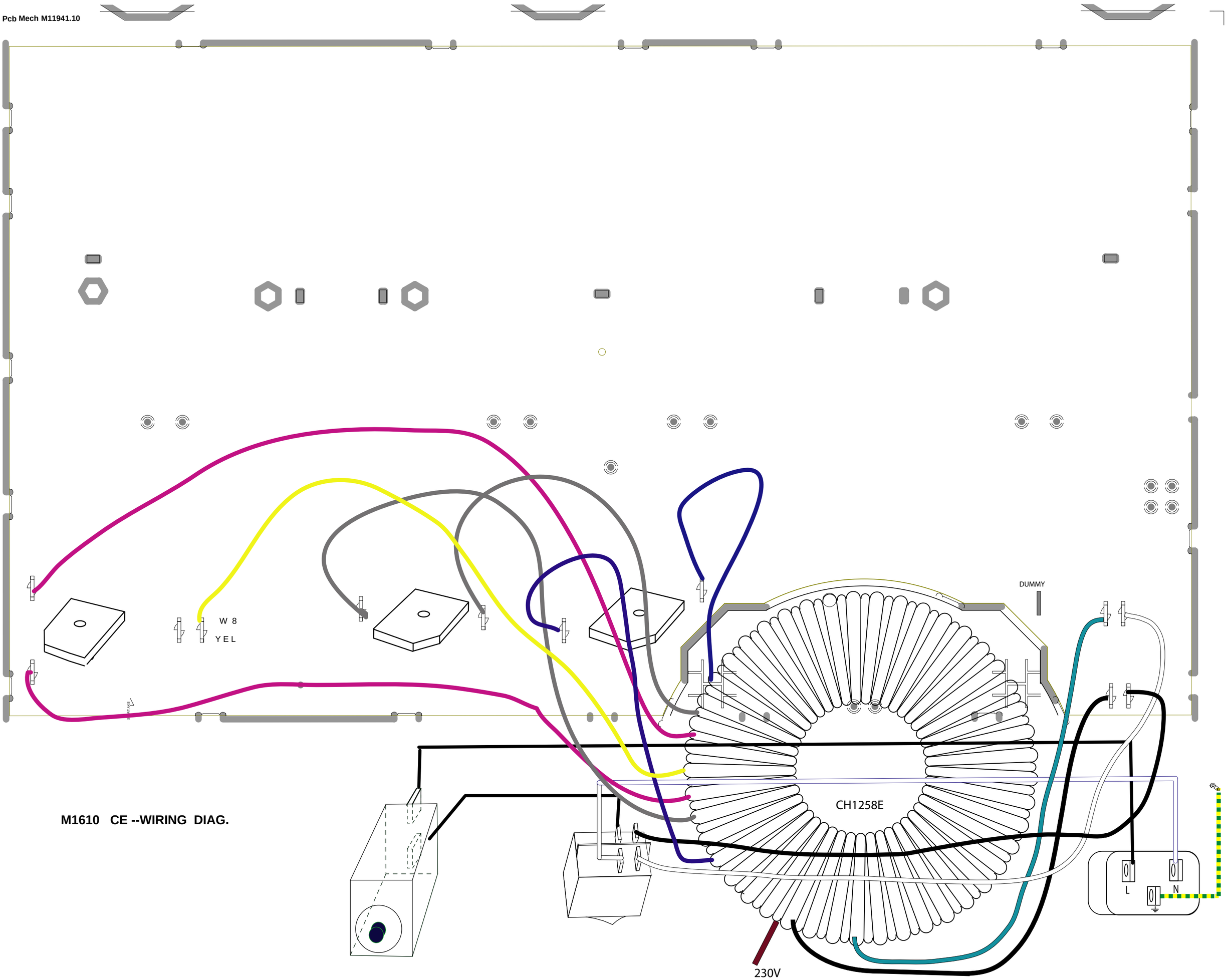


M1610 CE --WIRING DIAG.

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