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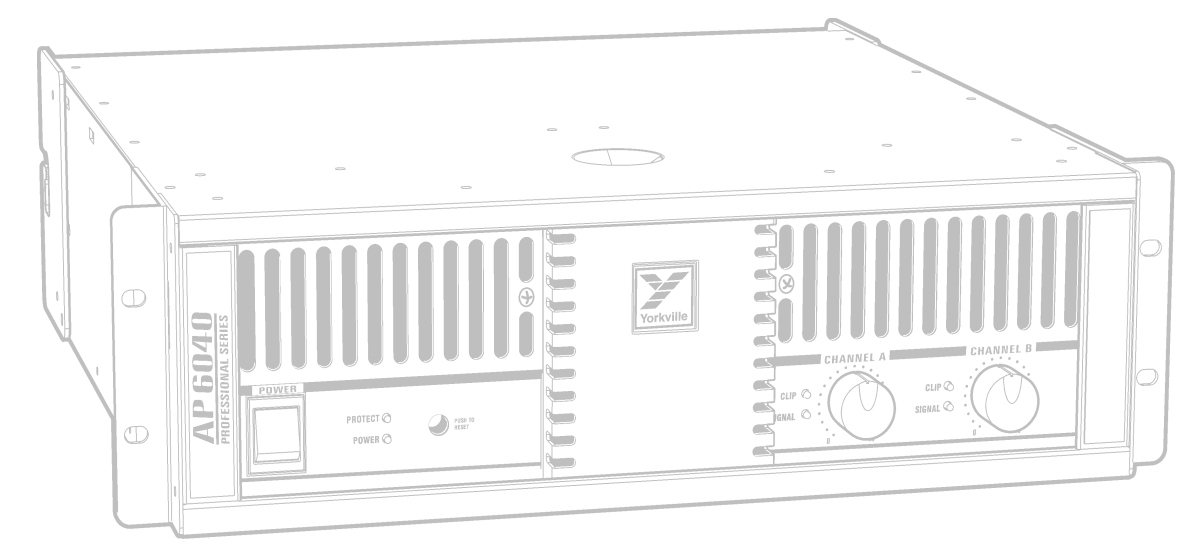


Quality and Innovation Since 1963
Printed in Canada

2000W into 4 ohms per channel



TYPE:YS1008
AP 6040
PROFESSIONAL SERIES



SERVICE MANUAL

Manual-Service-ap6040-1v3.pdf

IMPORTANT SAFETY INSTRUCTIONS



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

INSTRUCTIONS RELATIVES AU RISQUE DE FEU, CHOC ÉLECTRIQUE, OU BLESSURES AUX PERSONNES.

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.

AVIS:

AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE). NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR.

CONSULTEZ UN TECHNICIEN QUALIFIE POUR L'ENTRETIEN.

Read Instructions:

The *Owner's Manual* should be read and understood before operation of your unit. Please, save these instructions for future reference.

Packaging:

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

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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.

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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.**

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Veillez lire le manuel:

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Emballage:

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Attention:

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Alimentation:

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AP6040 Parts List 5/18/00

YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
3562	16 PIN SOCKET W31116T WINSLOW	1	5914	100U 63V 20%CAP BLK 10X13MM EL	1	6124	1/4W 3K 5%MINI T&R RES	12
3747	CUSTOM .5 LED SPACER BLACK	4	5630	330U 25V 20%CAP BLK 10X13MM EL	12	6136	1/4W 3K3 5%MINI T&R RES	8
5906	RED 3MM LED 1V9 20MA .4SPCER T&R	3	5618	470U 25V 20%CAP BLK 10X15MM EL	1	4774	1/4W 4K12 1% T&R RES	2
6405	RED 3MM LED 1V7 5MA BRT	2	5895	6800U 63V 20%CAP BLK 25X50MM ELS	12	4827	1/4W 4K7 5% T&R RES	1
5908	GRN 3MM LED 1V9 20MA .4SPCER T&R	3	5898	8200U 50V 20%CAP RADIAL ELECT BULK	12	4982	1/4W 4K7 5%MINI T&R RES	34
6408	GRN 3MM LED 1V9 5MA FROSTED	2	4390	10K AUD 16MM DETENT P22	2	6128	1/4W 4K99 1%MINI MF T&R RES	8
6419	BRIDGE 35A 400V WIRE LEAD G3504	3	4520	10K TRIM POT	4	4828	1/4W 6K8 5% T&R RES	2
6425	BAV21 200V 0A25 DIODE T&R	24	4250	25.0 AMP CIRCUIT BREAKER	1	4801	1/4W 6K98 1% T&R RES	8
6825	1N4148 75V 0A45 DIODE T&R	100	3820	4UH COIL 14AWG ZOBEL HORIZONTAL	4	4887	1/4W 7K5 5% T&R RES	2
6438	1N4004 400V 1A0 DIODE T&R	13	3602	RING TERMINAL 18AWG WIRE & #8 SCREW	1	4663	1/2W 8K2 5% T&R RES	2
6934	MR854 400V 3A0 DIODE FASREC	32	3615	STAR RING TERMINAL 18 AWG #10 SCREW	6	4990	1/4W 8K2 5%MINI T&R RES	8
6439	1N5225B 3V0 0W5 ZENER 5% T&R	2	3682	250 MALE PCB TAB BULK CARTRIDGE	42	4762	1/4W 9K760 0.1% *** T&R RES	8
6440	1N750ARL 4V7 0W5 ZENER 5% T&R	6	3380	RED ON LEFT DUAL BINDING POST TPP5	1	4829	1/4W 10K 5% T&R RES	1
6436	1N753ARL 6V2 0W5 ZENER 5% T&R	4	3385	RED ON RIGHT DUAL BINDING POST TPP5	1	6116	1/4W 10K0 1%MINI MF T&R RES	32
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	2	3498	1/4" JCK PCB MT HORZ	2	4856	1/4W 12K 5% T&R RES	12
6486	1N5244B 14V0 0W5 ZENER 5% T&R	4	6956	SPKON 4C PCB MT HORZ GRY #4	2	4630	1/2W 15K 5% T&R RES	8
6822	1N4745A 16V0 1W0 ZENER 5% T&R	8	3922	XLR FEML PCB MT HORZ THIN SNAP-IN	2	4830	1/4W 15K 5% T&R RES	6
6824	1N5246B 16V0 0W5 ZENER 5% T&R	4	3864	FAN 92MM X 92MM 60CFM 24VDC	2	4876	1/4W 16K 5% T&R RES	2
6432	1N5248B 18V0 0W5 ZENER 5% T&R	2	3894	AAVID 5972-B H/S W/TAB B.O.	4	4771	1/4W 17K8 1% T&R RES	4
6465	1N5250B 20V0 0W5 ZENER 5% T&R	4	3501	B52200F006 COMP WASH #4 SMALL	32	6125	1/4W 18K 5%MINI T&R RES	8
6463	1N5251BRL 22V0 0W5 ZENER 5% T&R	1	4896	6-32 X 3/8 STEEL PEM STUD	6	6123	1/4W 20K0 1%MINI MF T&R RES	8
6466	1N5256B 30V0 0W5 ZENER 5% T&R	3	3518	CLEAR PVC TUBING .500" DIA. 105°C	1	6118	1/4W 22K 5%MINI T&R RES	8
6433	1N5257B 33V0 0W5 ZENER 5% T&R	2	3788	QUICKON MALETAB	1	4840	1/4W 33K 5% T&R RES	4
5101	BC550C TO92 NPN TRAN T&R TB	33	3801	5/8" BUMPER BUTTON BLACK	6	4853	1/4W 39K 5% T&R RES	4
5102	BC560C TO92 PNP TRAN T&R TB	28	3803	NYLON SECUR-A-TACH MINI PLASTIC TIE	1	4834	1/4W 47K 5% T&R RES	9
5103	MPSA06 TO92 NPN TRAN T&R TA	3	3810	4" NYLON CABLE TIE	10	4835	1/4W 56K 5% T&R RES	4
5107	2N5551 TO92 NPN TRAN T&R TA	4	3827	SQUARE BUMPER BUTTON BLACK	5	4836	1/4W 68K 5% T&R RES	2
5108	2N5401 TO92 PNP TRAN T&R TA	8	8433	AP SERIES PLASTIC KNOB	2	4586	1/4W 82K 5%MINI T&R RES	10
6789	2N3904 TO92 NPN TRAN TA	1	8661	BUTTON KNOB FLAT GREY	4	4838	1/4W 100K 5% T&R RES	3
6854	2N6517 TO92 NPN TRAN TA	8	3401	30 AMP 125V TWISTLOC PLUG	1	4851	1/4W 120K 5% T&R RES	2
5105	MPSA13 TO92 NPN DARL T&R TA	1	3839	STRAIN RELIEF 0.8 INCH W/DOME NUT	1	4894	1/4W 130K 5% T&R RES	2
5106	MPSA63 TO92 PNP DARL T&R TA	1	3638	12 CIR CABLE HOLDER .098	2	4790	2.0W 150K 5%10MM BODY T&R RES	4
6814	MJF6668 T221D PNP TRAN DARL TJ	1	3678	CIR CABLE HOLDER .098	1	4841	1/4W 220K 5% T&R RES	1
6815	MJF6388 T221D NPN TRAN DARL TJ	2	5989	CIR CABLE HOLDER .098	2	6126	1/4W 220K 5%MINI T&R RES	16
6873	MJE340 TO126 NPN TRAN TG	12	8701	4-40 KEPS NUT ZINC	35	6127	1/4W 470K 5%MINI T&R RES	2
6874	MJE350 TO126 PNP TRAN TG	12	3797	TO-247 THERMO CONDUCTIVE PAD	8	4844	1/4W 1M 5% T&R RES	2
6752	MTP10N15L TO220 NCH MFET TN	4	3815	TO3 PREGREASED MICA 56-03-2AP	48	4888	1/4W 4M7 5% T&R RES	2
6933	MTP23P06 TO220 PCH MFET TN	4	3823	TO-220 THERMO PAD SMALL HOLE	12	6132	1/4W 8M2 5%MINI T&R RES	2
6909	MJ21196 TO3 NPN TRAN TH	24	3846	TO220 THERMO PAD LARGE HOLE 56359B	8	4751	1/4W 22M 5% T&R RES	2
6989	MJL1302A TO3P PNP TRAN TK	4	3580	12 CIR WAFER W/LCK VT 0.1"	2	3706	13" 8C-26AWG RIB 1 W/LCK HDR 098	1
6990	MJL3281A TO3P NPN TRAN TK	4	3583	8 CIR WAFER W/LCK 0.1"	1	3612	23" 9C-24AWG RIBBON HITMP 0.1"	1
6910	MJ21195 TO3 PNP TRAN TH	24	4597	22AWG STRAN TC WIR JMP	49	3740	15" 12C-26AWG RIB 1 W/LCK HDR 098	1
6840	MC33078P IC DUAL OP AMP	3	4599	22AWG SOLID SC WIR T&R JMP	151	3519	28" 12C-26AWG RIB 1 W/LCK HDR 098	1
6884	NE5532N IC DUAL OP AMP	4	5299	24AWG SOLID SC WIR RAD JMP	30	3673	12" 16C-28AWG DIP HDR CABLE .05"	1
6745	LM13600N IC XCONDUCTANCE AMP	2	4745	5.0W 0R1 5% BLK RES	24	3700	RELAY 2C 01AMP DC24 ???MA PC-S	2
5190	MBS4992 TO92 8V5 DIAC	4	4974	1.0W 0R47 5%FLAME PROOF T&R RES	4	3722	RELAY 1A 30AMP DC24 036MA PC-C	1
6444	MAC224-4 TO220 40A TRIAC 200V	4	4677	1/2W 1R 5% T&R RES	8	9580	HEATSINK(TAPTREE) AP4020 LGTH 11.6"	5
5191	MCR100-6 TO92 SCR 600V 0.8A	1	4877	1/4W 1R 5%FLAME PROOF T&R RES	24	9583	BLACK U EXTRUSION DIE #943	1
6880	4N35 OPTO-COUPLER	4	4973	1.0W 1R 5%FLAME PROOF T&R RES	1	9640	.025" FISHPAPER (FLAT 48" SHEETS)	2
6478	AS35FN-TO92 TEMPERATURE SENSOR	2	4911	1/4W 2R2 5% T&R RES	16	8870	#4 X 1/4 PAN PH TYPE A ZINC	2
6489	5R0 20% NTC THERMISTOR-SURGTR	2	4748	2.0W 3R9 5% T&R	8	8729	#4 X 3/8 FLAT QUAD TYPE A JS500 BLK	8
5401	10P 500V 5%CAP T&R RAD CER.2"NPO	12	4735	5.0W 5R6 5% BLK RES	4	8861	4-40 X 3/8 PAN PH MS JS500	7
5410	100P 100V 10%CAP T&R BEAD NPO	2	4594	1/8W 10R 2%FLAME PROOF T&R RES	12	8741	4-40 X 1/2 PAN PH MS JS500	20
5197	220P 100V 2%CAP T&R RAD CER.2"NPO	12	4610	1/4W 10R 2%FLAME PROOF T&R RES	2	8871	4-40 X 5/8 PAN PH MS JS500	8
5412	220P 100V 10%CAP T&R BEAD NPO	4	4875	1/4W 10R 5% T&R RES	2	8799	#6 X 1/4 PAN PH TYPE B JS500	4
5201	470P 100V 5%CAP T&R RAD CER.2"NPO	2	4591	1/8W 22R1 1%FLAME PROOF T&R RES	4	8801	6-32 X 3/8 PAN PH TAPTITE JS500	4
5206	1N 400V 5%CAP T&R RAD .2"FLM	4	4607	1/8W 39R 2%FLAME PROOF T&R RES	36	8829	6-32 X 3/8 FLAT PH TAPTITE BO#4 HEA	47
5273	1N5 200V 5%CAP T&R RAD CER.2"NPO	2	4811	1/4W 68R 5% T&R RES	4	8761	6-32 X 1/2 PAN PHIL MS ZINC CLEAR	96
5208	2N2 400V 5%CAP T&R RAD .2"FLM	14	4608	1/8W 75R 2%FLAME PROOF T&R RES	16	8999	8-32 X 5/8 PAN PH TAPTITE JS500	20
6451	4N7 250V 20%CAP BLK 'Y' 10MM ACM	1	4590	1/8W 100R 1%FLAME PROOF T&R RES	28	8809	10-32 X 1/4 PAN PH TAPTITE JS500	8
5272	6N8 100V 5%CAP T&R RAD .2"FLM	8	4987	1/4W 120R 5%MINI T&R RES	4	8753	#10 X 1/2 PAN PH TYPE A JS500 BLACK	3
5834	10N 250V 20%CAP BLK RAD POLY FLM	4	4984	1/4W 150R 5%MINI T&R RES	20	8786	10-32 X 1 1/4 PAN QD MS JS500 BLACK	3
5210	22N 100V 10%CAP T&R RAD .2"FLM	17	6201	1/4W 200R 1%FLAME PROOF T&R RES	12	8772	1/4-20 X 1 TRUSS PH MS JS500 BLACK	2
6435	22N 275V 20%CAP BLK 'X2' 15MM ACM	2	4977	1/4W 220R 5%MINI T&R RES	12	8663	11/64 NYLON SPACER (MICRO PLASTIC)	96
5226	68N 100V 5%CAP T&R RAD .2"FLM	4	4606	1/8W 249R 2%FLAME PROOF T&R RES	8	8851	.250 SPACER ID.190 OD.31 ALUMINUM	6
5228	100N 100V 5%CAP T&R RAD .2"FLM	16	4867	1/4W 270R 5% T&R RES	2	3744	SNAP IN .375 SPACER RICHCO	4
5314	100N 50V 10%CAP T&R BEAD X7R	2	4945	1/4W 270R 5% .2"U T&R RES	2	3743	SNAP ON 0.5" SPACER RICHCO	6
5229	150N 63V 10%CAP T&R RAD .2"FLM	4	4855	1/4W 330R 5% T&R RES	2	3851	1/2 PCB PLASTIC SPACER	3
5231	220N 63V 10%CAP T&R RAD .2"FLM	2	4736	5.0W 390R 5% BLK RES	2	8667	SHOULDER WASHER SWS-229 LENGTH 1/8	1
5882	220N 250V 10%CAP BLK RAD POLY FLM	8	4980	1/4W 470R 5%MINI T&R RES	12	3517	NYLON WASHER #8 0.062	1
5234	470N 63V 10%CAP T&R RAD .2"FLM	1	4781	1/8W 681R 1%FLAME PROOF T&R RES	24	8818	3/4 OD X 5/16 ID X .08 THICK WASHER	1
5322	470N 50V 10%CAP T&R BEAD Z5U	2	4609	1/8W 1K 2%FLAME PROOF T&R RES	8	3511	#6 FLAT WASHER NYLON	1
5255	1U 63V 20%CAP T&R RAD .2"EL	4	4726	5.0W 1K 5% BLK RES	9	3436	DPDT PUSH SW PCMT H BREAK B4 MAKE	4
5259	4U7 63V 20%CAP T&R RAD .2"EL	10	4823	1/4W 1K 5% T&R RES	5	3587	DPDT ROKR SW QUIK 250° AC/ PWR ON-OFF	1
5281	10U 16V 20%CAP T&R RAD .2"NP	2	4981	1/4W 1K 5%MINI T&R RES	8	3417	PC SCREW TERMINAL PC MOUNT	2
5629	10U 160V 20%CAP BLK 10X13MM EL	8	4988	1/4W 1K5 5%MINI T&R RES	8	8666	6-32 X 1/4" INSERT CFS0632-8	2
5945	10U 63V 20%CAP T&R RAD .2"EL	13	4791	1/4W 1K54 1% T&T RES	4	1194	AP6040 125VAC 60HZ T RD	1
5260	22U 50V 20%CAP T&R RAD .2"EL	6	6113	1/4W 2K 5%MINI T&R RES	10	0	M1151 POWER SUPPLY AP6040 1PER 2OZ	1
5961	33U 16V 20%CAP T&R RAD .2"NP	12	6104	1/4W 2K2 5%MINI T&R RES	8	0.9	M1150 POWER AMP AP6040 1PER 2OZ	2
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Cordon d'alimentation:

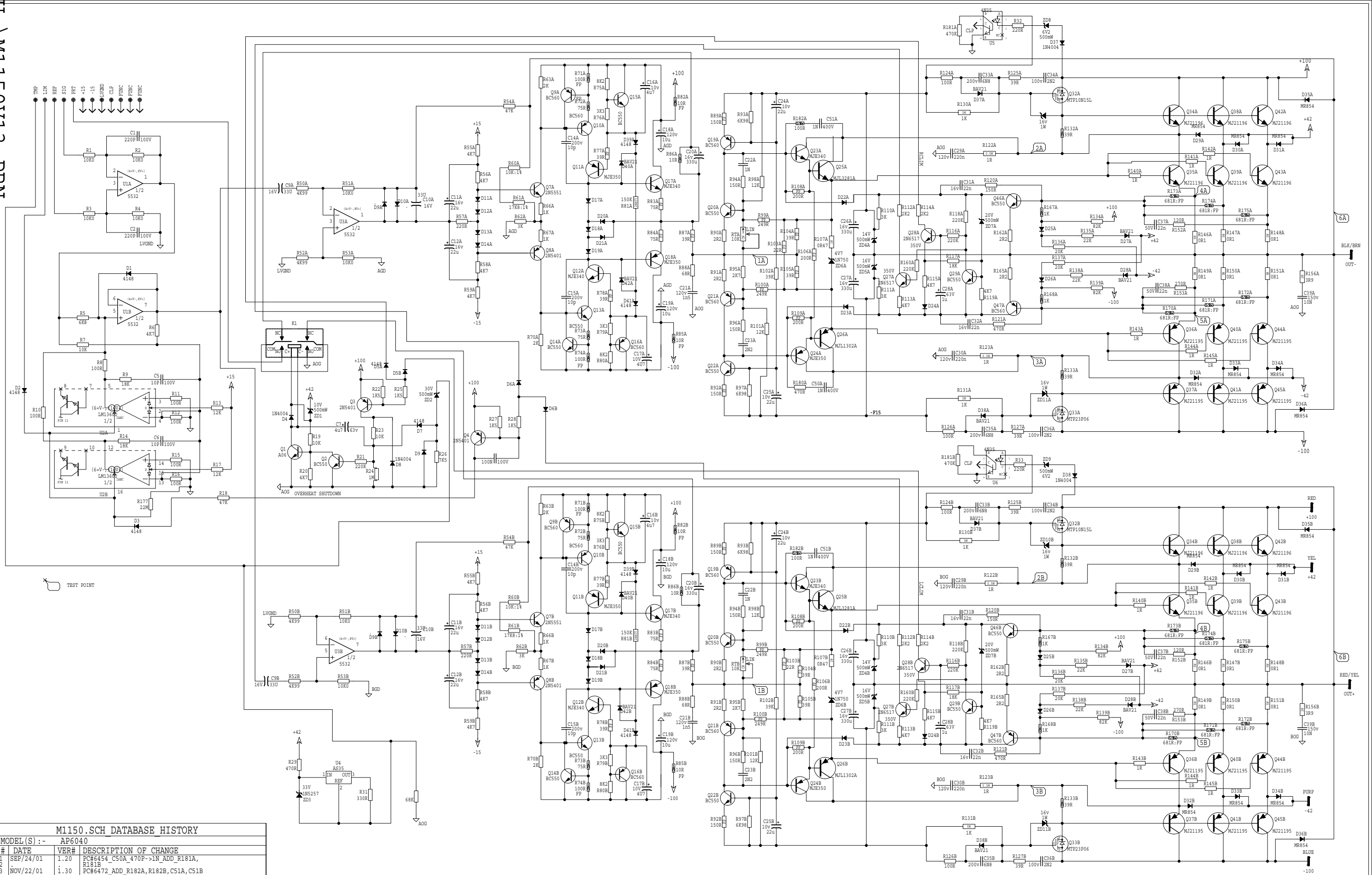
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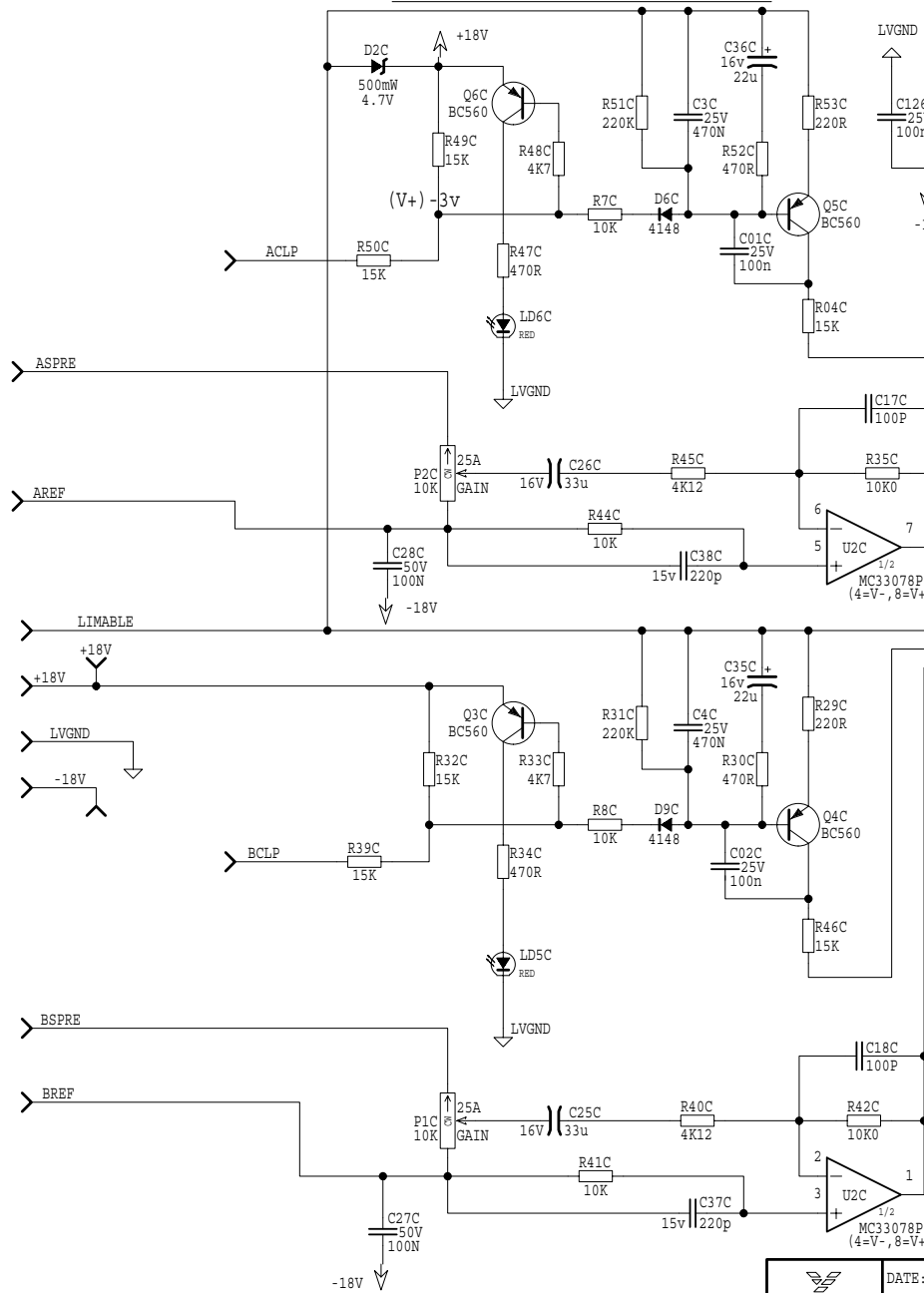
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3747	CUSTOM .5 LED SPACER BLACK	4	5630	330U 25V 20%CAP BLK 10X13MM EL	12	6136	1/4W 3K3 5%MINI T&R RES	8
5906	RED 3MM LED 1V9 20MA .4SPCER T&R	3	5618	470U 25V 20%CAP BLK 10X15MM EL	1	4774	1/4W 4K12 1% T&R RES	2
6405	RED 3MM LED 1V7 5MA BRT	2	5895	6800U 63V 20%CAP BLK 25X50MM ELS	12	4827	1/4W 4K7 5% T&R RES	1
5908	GRN 3MM LED 1V9 20MA .4SPCER T&R	3	5898	8200U 50V 20%CAP RADIAL ELECT BULK	12	4982	1/4W 4K7 5%MINI T&R RES	34
6408	GRN 3MM LED 1V9 5MA FROSTED	2	4390	10K AUD 16MM DETENT P22	2	6128	1/4W 4K99 1%MINI MF T&R RES	8
6419	BRIDGE 35A 400V WIRE LEAD GI3504	3	4520	10K TRIM POT	4	4828	1/4W 6K8 5% T&R RES	2
6425	BAV21 200V 0A25 DIODE T&R	24	2444	25.0 AMP CIRCUIT BREAKER	1	4801	1/4W 6K98 1% T&R RES	8
6825	1N4148 75V 0A45 DIODE T&R	100	3820	4UH COIL 14AWG ZOBEL HORIZONTAL	4	4887	1/4W 7K5 5% T&R RES	2
6438	1N4004 400V 1A0 DIODE T&R	13	3602	RING TERMINAL 18AWG WIRE & #8 SCREW	1	4663	1/2W 8K2 5% T&R RES	2
6934	MR854 400V 3A0 DIODE FASREC	32	3615	STAR RING TERMINAL 18 AWG #10 SCREW	6	4990	1/4W 8K2 5%MINI T&R RES	8
6439	1N5225B 3V0 0W5 ZENER 5% T&R	2	3682	250 MALE PCB TAB BULK CARTRIGE	42	4762	1/4W 9K760 0.1%*** T&R RES	8
6440	1N750ARL 4V7 0W5 ZENER 5% T&R	6	3380	RED ON LEFT DUAL BINDING POST TPP5	1	4829	1/4W 10K 5% T&R RES	1
6436	1N753ARL 6V2 0W5 ZENER 5% T&R	4	3385	RED ON RIGHT DUAL BINDING POST TPP5	1	6116	1/4W 10K0 1%MINI MF T&R RES	32
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	2	3498	1/4" JCK PCB MT HORZ	2	4856	1/4W 12K 5% T&R RES	12
6486	1N5244B 14V0 0W5 ZENER 5% T&R	4	6956	SPKON 4C PCB MT HORZ GRY #4	2	4630	1/2W 15K 5% T&R RES	8
6822	1N4745A 16V0 1W0 ZENER 5% T&R	8	3922	XLR FEML PCB MT HORZ THIN SNAP-IN	2	4830	1/4W 15K 5% T&R RES	6
6824	1N5246B 16V0 0W5 ZENER 5% T&R	4	3864	FAN 92MM X 92MM 60CFM 24VDC	2	4876	1/4W 16K 5% T&R RES	2
6432	1N5248B 18V0 0W5 ZENER 5% T&R	2	3894	AAVID 5972-B H/S W/TAB B.O.	4	4771	1/4W 17K8 1% T&R RES	4
6465	1N5250B 20V0 0W5 ZENER 5% T&R	4	3501	B52200F006 COMP WASH #4 SMALL	32	6125	1/4W 18K 5%MINI T&R RES	8
6463	1N5251BRL 22V0 0W5 ZENER 5% T&R	1	8498	6-32 X 3/8 STEEL PEM STUD	6	6123	1/4W 20K0 1%MINI MF T&R RES	8
6466	1N5256B 30V0 0W5 ZENER 5% T&R	3	3518	CLEAR PVC TUBING .500" DIA. 105°C	1	6118	1/4W 22K 5%MINI T&R RES	8
6433	1N5257B 33V0 0W5 ZENER 5% T&R	2	3788	QUICKON MALETAB	1	4840	1/4W 33K 5% T&R RES	4
5101	BC550C TO92 NPN TRAN T&R TB	33	3801	5/8" BUMPER BUTTON BLACK	6	4853	1/4W 39K 5% T&R RES	4
5102	BC560C TO92 PNP TRAN T&R TB	28	3803	NYLON SECUR-A-TACH MINI PLASTIC TIE	1	4834	1/4W 47K 5% T&R RES	9
5103	MPSA06 TO92 NPN TRAN T&R TA	3	3810	4" NYLON CABLE TIE	10	4835	1/4W 56K 5% T&R RES	4
5107	2N5551 TO92 NPN TRAN T&R TA	4	3827	SQUARE BUMPER BUTTON BLACK	5	4836	1/4W 68K 5% T&R RES	2
5108	2N5401 TO92 PNP TRAN T&R TA	8	8433	AP SERIES PLASTIC KNOB	2	4586	1/4W 82K 5%MINI T&R RES	10
6789	2N3904 TO92 NPN TRAN TA	1	8661	BUTTON KNOB FLAT GREY	4	4838	1/4W 100K 5% T&R RES	3
6854	2N6517 TO92 NPN TRAN TA	8	3401	30 AMP 125V TWISTLOC PLUG	1	4851	1/4W 120K 5% T&R RES	2
5105	MPSA13 TO92 NPN DARL T&R TA	1	3839	STRAIN RELIEF 0.8 INCH W/DOME NUT	1	4894	1/4W 130K 5% T&R RES	2
5106	MPSA63 TO92 PNP DARL T&R TA	1	3638	12 CIR CABLE HOLDER .098	2	4790	2.0W 150K 5%10MM BODY T&R RES	4
6814	MJF6668 T221D PNP TRAN DARL TJ	1	3676	8 CIR CABLE HOLDER .098	1	4841	1/4W 220K 5% T&R RES	1
6815	MJF6388 T221D NPN TRAN DARL TJ	2	5989	4 CIR CABLE HOLDER .098	2	6126	1/4W 220K 5%MINI T&R RES	16
6873	MJE340 TO126 NPN TRAN TG	12	8701	4-40 KEPS NUT ZINC	35	6127	1/4W 470K 5%MINI T&R RES	2
6874	MJE350 TO126 PNP TRAN TG	12	3797	TO-247 THERMO CONDUCTIVE PAD	8	4844	1/4W 1M 5% T&R RES	2
6752	MTP10N15L TO220 NCH MFET TN	4	3815	TO3 PREGREASED MICA 56-03-2AP	48	4888	1/4W 4M7 5% T&R RES	2
6933	MTP23P06 TO220 PCH MFET TN	4	3823	TO-220 THERMO PAD SMALL HOLE	12	6132	1/4W 8M2 5%MINI T&R RES	2
6909	MJ21196 TO3 NPN TRAN TH	24	3846	TO220 THERMO PAD LARGE HOLE 56359B	8	4751	1/4W 22M 5% T&R RES	2
6989	MJL1302A TO3P PNP TRAN TK	4	3580	12 CIR WAFER WLCK VT 0.1"	2	3706	13" 8C-26AWG RIB 1 WLCK HDR 098	1
6990	MJL3281A TO3P PNP TRAN TK	4	3583	8 CIR WAFER WLCK 0.1"	1	3612	23" 9C-24AWG RIBBON HITMP 0.1"	
6910	MJ21195 TO3 PNP TRAN TH	24	4597	22AWG STRAN TC WIR JMP	49	3740	15" 12C-26AWG RIB 1 WLCK HDR 098	1
6840	MC33078P IC DUAL OP AMP	3	4599	22AWG SOLID SC WIR T&R JMP	151	3519	28" 12C-26AWG RIB 1 WLCK HDR 098	1
6884	NE5532N IC DUAL OP AMP	4	5299	24AWG SOLID SC WIR RAD JMP	30	3673	12" 16C-28AWG DIP HDR CABLE .05"	1
6745	LM13600N IC XCONDUCTANCE AMP	2	4745	5.0W 0R1 5% BLK RES	24	3700	RELAY 2C 01AMP DC24 ???MA PC-S	2
5190	MBS4992 TO92 8V5 DIAC	4	4974	1.0W 0R47 5%FLAME PROOF T&R RES	4	3722	RELAY 1A 30AMP DC24 036MA PC-C	1
6444	MAC224-4 TO220 40A TRIAC 200V	4	4677	1/2W 1R 5% T&R RES	8	9580	HEATSINK(TAPTREE) AP4020 LGTH 11"6"	5
5191	MCR100-6 TO92 SCR 600V 0.8A	1	4877	1/4W 1R 5%FLAME PROOF T&R RES	24	9583	BLACK 'U' EXTRUSION DIE #943	
6880	4N35 OPTO-COUPLER	4	4973	1.0W 1R 5%FLAME PROOF T&R RES	1	9640	.025" FISHPAPER (FLAT 48" SHEETS)	2
6478	AS35FN-TO92 TEMPERATURE SENSOR	2	4911	1/4W 2R2 5% T&R RES	16	8870	#4 X 1/4 PAN PH TYPE A ZINC	2
6489	5R0 20% NTC THERMISTOR-SURGTR	2	4748	2.0W 3R9 5% T&R	8	8729	#4 X 3/8 FLAT QUAD TYPE A JS500 BLK	8
5401	10P 500V 5%CAP T&R RAD CER.2"NPO	12	4733	5.0W 5R6 5% BLK RES	4	8861	4-40 X 3/8 PAN PH MS JS500	7
5410	100P 100V 10%CAP T&R BEAD NPO	2	4594	1/8W 10R0 2%FLAME PROOF T&R RES	12	8741	4-40 X 1/2 PAN PH MS JS500	20
5197	220P 100V 2%CAP T&R RAD CER.2"NPO	12	4610	1/4W 10R 2%FLAME PROOF T&R RES	2	8871	4-40 X 5/8 PAN PH MS JS500	8
5412	220P 100V 10%CAP T&R BEAD NPO	4	4875	1/4W 10R 5% T&R RES	2	8799	#6 X 1/4 PAN PH TYPE B JS500	4
5201	470P 100V 5%CAP T&R RAD CER.2"NPO	2	4591	1/8W 22R1 1%FLAME PROOF T&R RES	4	8801	6-32 X 3/8 PAN PH TAPTITE JS500	4
5206	1N 400V 5%CAP T&R RAD .2"FLM	4	4607	1/8W 39R 2%FLAME PROOF T&R RES	36	8829	6-32 X 3/8 FLAT PH TAPTITE BO#4 HEA	47
5273	1N5 200V 5%CAP T&R RAD CER.2"NPO	2	4811	1/4W 68R 5% T&R RES	4	8761	6-32 X 1/2 PAN PHIL MS ZINC CLEAR	96
5208	2N2 400V 5%CAP T&R RAD .2"FLM	14	4608	1/8W 75R 2%FLAME PROOF T&R RES	16	8999	8-32 X 5/8 PAN PH TAPTITE JS500	20
6451	4N7 250V 20%CAP BLK 'Y' 10MM AC	1	4590	1/8W 100R0 1%FLAME PROOF T&R RES	28	8809	10-32 X 1/4 PAN PH TAPTITE JS500	8
5272	6N8 100V 5%CAP T&R RAD .2"FLM	8	4987	1/4W 120R 5%MINI T&R RES	4	8753	#10 X 1/2 PAN PH TYPE A JS500 BLACK	3
5834	10N 250V 20%CAP BLK RAD POLY FLM	4	4984	1/4W 150R 5%MINI T&R RES	20	8786	10-32 X 1 1/4 PAN QD MS JS500 BLACK	3
5210	22N 100V 10%CAP T&R RAD .2"FLM	17	6201	1/4W 200R 1%FLAME PROOF T&R RES	12	8772	1/4-20 X 1 TRUSS PH MS JS500 BLACK	2
6435	22N 275V 20%CAP BLK 'X2' 15MM AC	2	4977	1/4W 220R 5%MINI T&R RES	12	8663	11/64 NYLON SPACER (MICRO PLASTIC)	96
5226	68N 100V 5%CAP T&R RAD .2"FLM	4	4606	1/8W 249R 2%FLAME PROOF T&R RES	8	8851	.250 SPACER ID.190 OD.31 ALUMINUM	6
5228	100N 100V 5%CAP T&R RAD .2"FLM	16	4867	1/4W 270R 5% T&R RES	2	3744	SNAP IN .375 SPACER RICHCO	4
5314	100N 50V 10%CAP T&R BEAD X7R	2	4945	1/4W 270R 5% .2"U T&R RES	2	3743	SNAP ON 0.5" SPACER RICHCO	6
5229	150N 63V 10%CAP T&R RAD .2"FLM	4	4855	1/4W 330R 5% T&R RES	2	3851	1/2 PCB PLASTIC SPACER	3
5231	220N 63V 10%CAP T&R RAD .2"FLM	2	4736	5.0W 390R 5% BLK RES	2	8667	SHOULDER WASHER SWS-229 LENGTH 1/8	8
5882	220N 250V 10%CAP BLK RAD POLY FLM	8	4980	1/4W 470R 5%MINI T&R RES	12	3517	NYLON WASHER #8 0.062	1
5234	470N 63V 10%CAP T&R RAD .2"FLM	1	4781	1/8W 681R 1%FLAME PROOF T&R RES	24	8818	3/4 OD X 5/16 ID X .08 THICK WASHER	1
5322	470N 50V 10%CAP T&R BEAD Z5U	2	4609	1/8W 1K 2%FLAME PROOF T&R RES	8	3511	#6 FLAT WASHER NYLON	2
5255	1U 63V 20%CAP T&R RAD .2"EL	4	4726	5.0W 1K 5% BLK RES	9	3436	DPDT PUSH SW PCMT H BREAK B4 MAKE	4
5259	4U7 63V 20%CAP T&R RAD .2"EL	10	4823	1/4W 1K 5% T&R RES	5	3587	DPDT ROKR SW QUIK 250"AC/PWR ON-OFF	1
5281	10U 16V 20%CAP T&R RAD .2"NP	2	4981	1/4W 1K 5%MINI T&R RES	8	3417	PC SCREW TERMINAL PC MOUNT	2
5629	10U 160V 20%CAP BLK 10X13MM EL	8	4988	1/4W 1K5 5%MINI T&R RES	8	8666	6-32 X 1/4" INSERT CFS0632-8	2
5945	10U 63V 20%CAP T&R RAD .2"EL	13	4791	1/4W 1K54 1% T&T RES	4	1194	AP6040 125VAC 60HZ TRD	1
5260	22U 50V 20%CAP T&R RAD .2"EL	6	6113	1/4W 2K 5%MINI T&R RES	10	0	M1151 POWER SUPPLY AP6040 1PER 2OZ	1
5961	33U 16V 20%CAP T&R RAD .2"NP	12	6104	1/4W 2K2 5%MINI T&R RES	8	0.9	M1150 POWER AMP AP6040 1PER 2OZ	2
5267	100U 25V 20%CAP T&R RAD .2"EL	3	4864	1/4W 2K7 5% T&R RES	4			

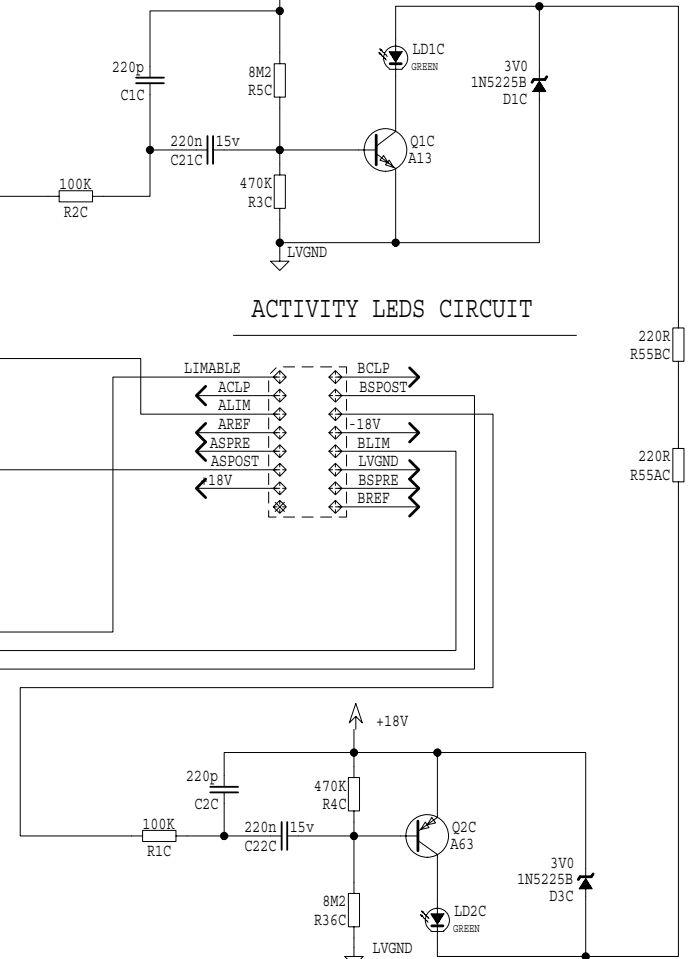


M1150.SCH DATABASE HISTORY			
MODEL(S) :- AP6040			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	SEP/24/01	1.20	PC#6454_C50A 470P->1N ADD_R181A, R181B
2	NOV/22/01	1.30	PC#6472_ADD_R182A, R182B, C51A, C51B
3		N	
4		N	
5		N	
6		N	
7		N	
8		N	
9		N	
10		N	

VOLUME CONTROL/ LIMITER

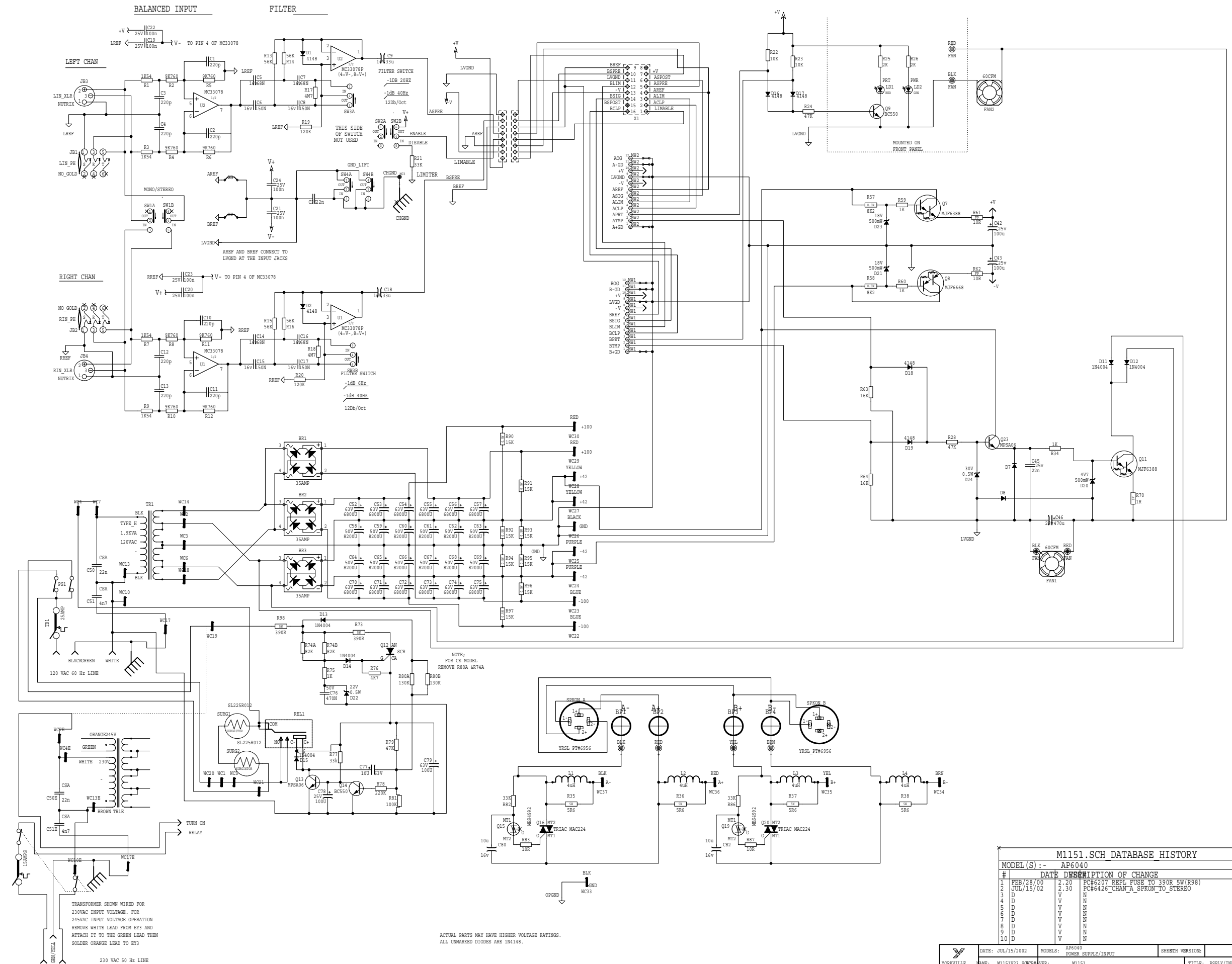


ACTIVITY LEDS CIRCUIT

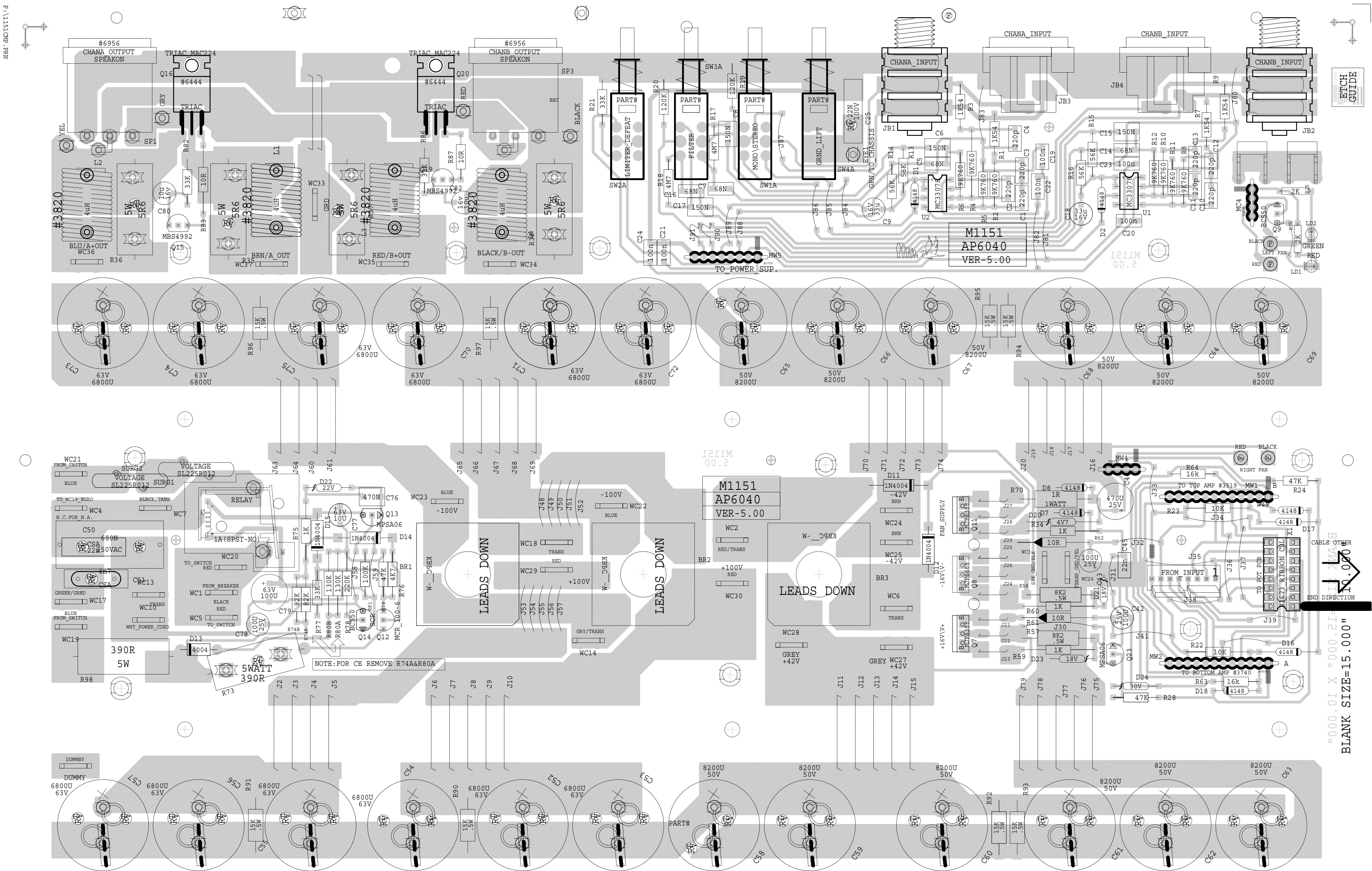


M1150.SCH DATABASE HISTORY

MODEL(S) :- AP6040			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	SEP/24/01	1.20	PC#6303_ADD_C27C,C28C
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N



M1151.SCH DATABASE HISTORY			
#	DATE	DESCRIPTION OF CHANGE	MODEL(S) :-
1	FEB/28/00	PC#6207 REPL FUSE TO 390R SW(R58)	AP6040
2	JUL/15/02	PC#6426_CHAN_A_SPKON_TO_STEREO	
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N



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M1151.PCB DATABASE HISTORY			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	AUG/10/99	2.00	PC#6034 LD2 ROTATED
2	.	.	TRIACS Q18, Q22 DELETED. R85, Q17, C81
3	.	.	R84, R88, Q21, C83, R89 DELETED
4	.	.	TRACS ENLARGED
5	SEP/28/99	3.00	PC#6125 CHANGE SPACING R73_PC#6128
6	.	.	CHANGE SPAING OF COILS
7	OCT/18/99	.	REPLACE 16 PIN IC-SOCKET WITH #3673
8	.	.	RIBBON CABLE
9	JAN/31/00	3.10	PC# Q23_BC550->MPSA06_(TO MATCH SCHEMATIC)
10	.	.	.
11	FEB/23/00	4.00	PC#6207 REPLACE FUSE WITH 390R 5W
12	JUN/02/00	.	PC#6242 SHEAR MOVED 0.050" IN X
13	NOV/15/01	4.10	ADD RTV HOLES TO RELAY
14	JUL/08/02	4.20	PC#6553 REPLACE SHEAR WITH ROUTE
15	JUL/15/02	5.00	PC#6395 MOVE R98_PC#6426 REWIRE CHAN_A_SPKON_TO_STEREO
16	.	.	.
17	.	.	.
18	.	.	.
19	.	.	.
20	.	.	.
21	.	.	.
22	.	.	.
23	.	.	.
24	.	.	.

PRODUCTION NOTES

- MOUNTING DETAILS FOR Q30 TRIAC
 - USE #8799 TO MOUNT TRIAC Q30
 - IMPORTANT AFTER MOUNTING DEVICE DO NOT CUT LEGS #2 OR #3 BEND LEGS IN DIRECTION SHOWN IT IS IMPERATIVE THAT LEGS MARKED 2 AND 3 ARE BENT FLAT AGAINST THE COPPER SURFACE
 - THIS CONNECTION MUST BE BROKEN HERE
- CUT LARGE CAP LEADS BEFORE WAVE SOLDER.
- SCREW DOWN BRIDGES WITH #8753 SCREW.
- FOR CE REMOVE R74&R80A

"000.01 X "000.24" M1151-5.00
BLANK SIZE=15.000"



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www.yorkville.com

SERVICE BULLETIN

Date : February 29, 2000

Re : AP6020 / AP6040 Internal Fuse Problem

Dear Staff & Dealers,

We are sorry to advise that a service issue has developed with the AP6020 and AP6040 power amplifiers that will eventually affect every unit shipped before February 26th, 2000. All units in stock in Canada and the USA have been reworked to correct this problem.

The problem is serious enough that it is necessary to modify all units in the field, so we are here by issuing a service bulletin that will be followed up with letters and phone calls to all affected dealers and distributors.

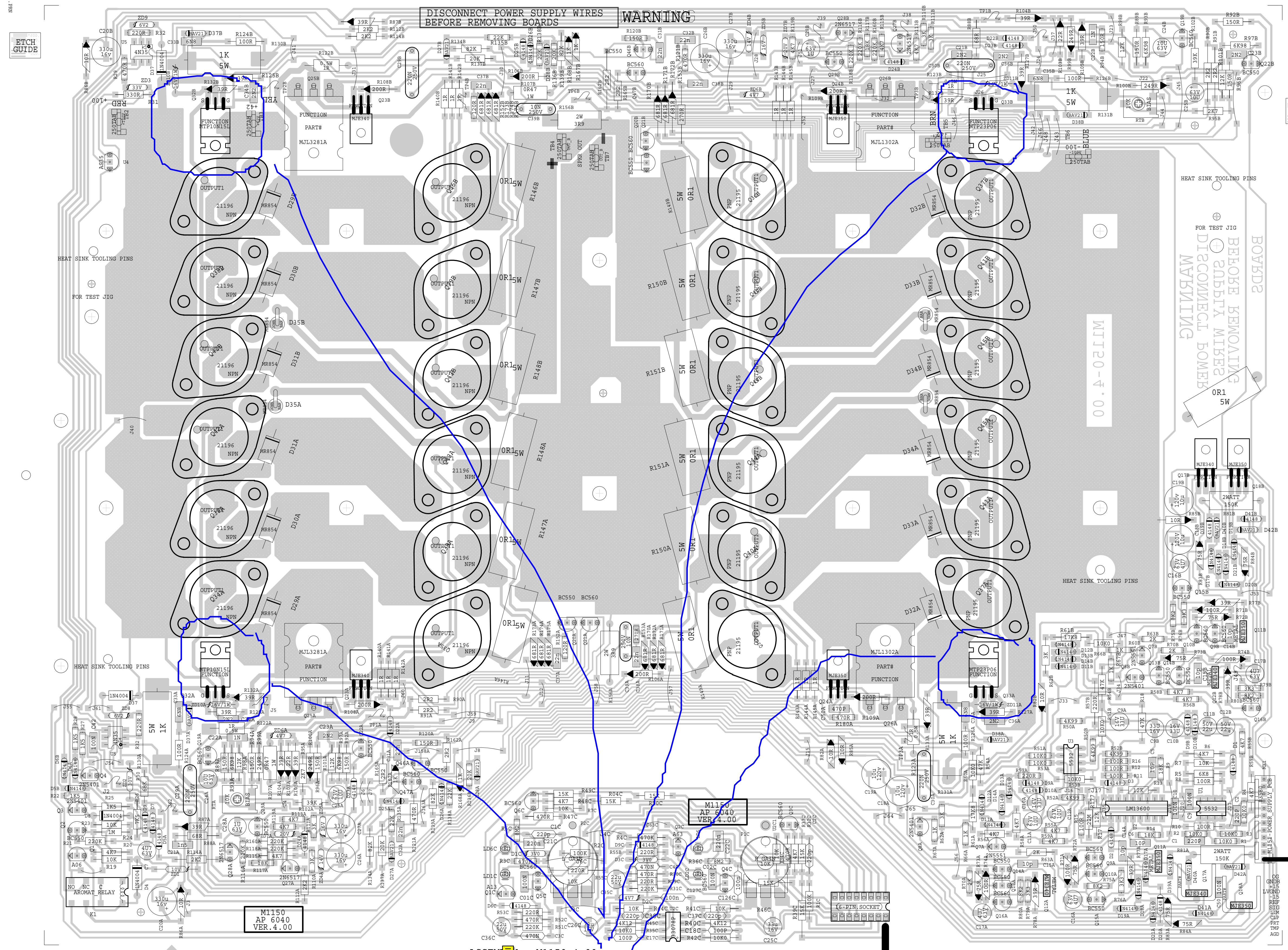
All units should be modified as soon as possible. The units can either be returned to Yorkville for modification, or can easily be modified in the field by a qualified service technician. We will, of course, accept warranty claims for this modification.

Required Modification:

- Remove the lid from the unit and both power amp boards.
- Locate the small 0.1A fuse on lower power supply board (#M1151 - AP6040 or M1177 - AP6020). This is the only fuse in the unit.
- Replace this fuse with a 5W 390R resistor (YSL Part#4736).
- Dress all wires away from the two 5W 390R resistors.
- In order to be sure that no damage was done to the upper power amp boards when they were removed it is strongly advised that the technician carefully retouch the solder on the three legs of each of the following transistors: #Q32A, Q32B, Q33A and Q33B on each of the two power amp boards (AP6040 - M1176/M1176A, AP6020 - M1150/M1150A)
- Replace the upper boards and lid.

Sorry for any inconvenience caused as a result of this problem. For further technical information or assistance please contact Peter Mourtos at Yorkville Sound via phone at (905)837-8550 Ext.218 or via email at pmourtos@yorkville.com .

Enclosed - Layouts for AP6020/AP6040 Power Supply and Power Amplifier boards.

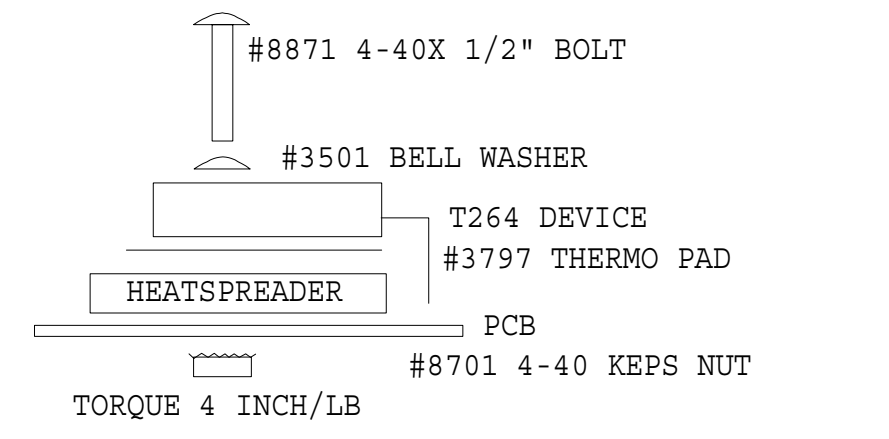


DISCONNECT POWER SUPPLY WIRES
BEFORE REMOVING BOARDS
WARNING

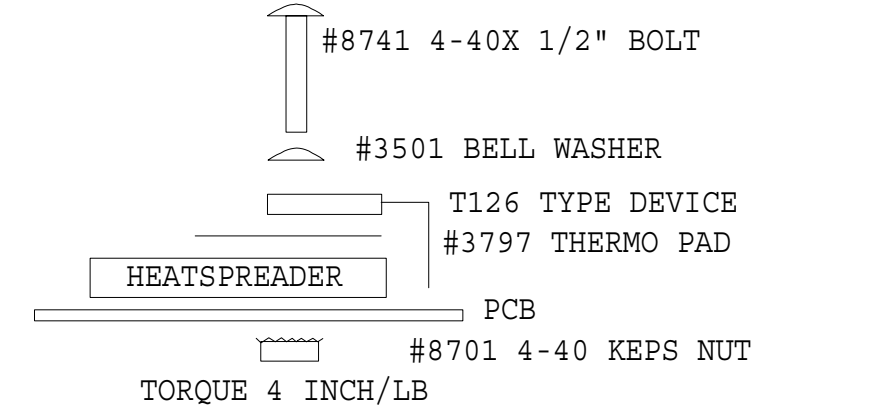
BEFORE REMOVING
SUBPLY WIRES
DISCONNECT POWER
WARNING

ADD #8629 SPACERS ONLY ON
5 WATT RESISTORS
R29, R29A R45 AND R45A

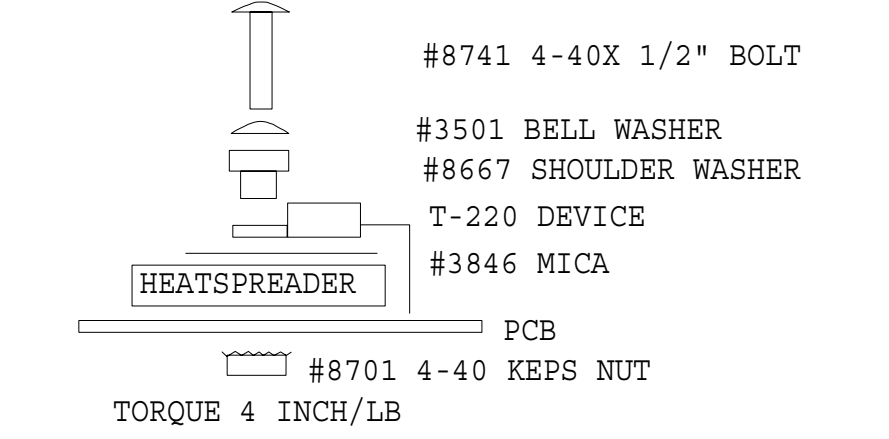
MOUNTING HARDWARE FOR Q5,Q6



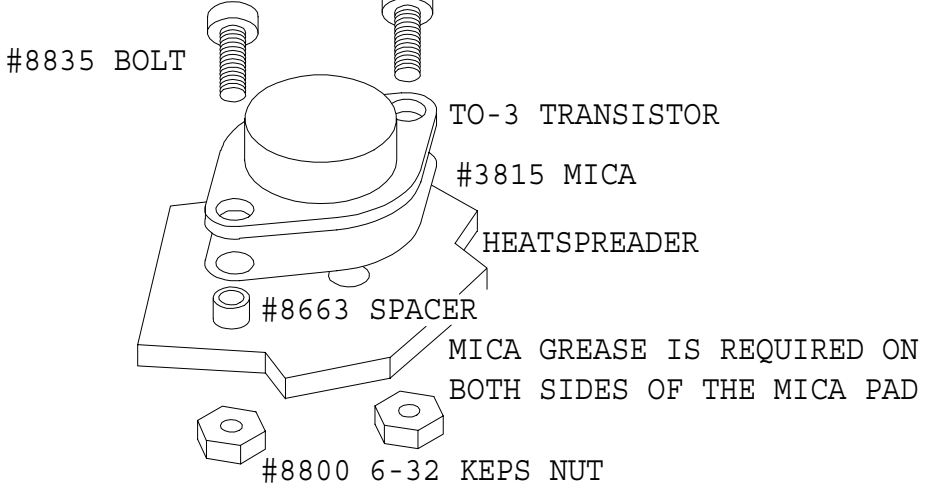
MOUNTING HARDWARE FOR Q40,Q41



MOUNTING HARDWARE FOR Q11,Q12



MOUNTING HARDWARE FOR TO3 OUTPUTS



INITIAL TORQUE FOR TO-3'S IS 8 INCH/LB
FINAL TORQUE AFTER HEATSINK HAS
COOLED FROM WAVE SOLDER IS 6 INCH/LB

TAB WIRE COLOURS

- TAB 2 RED 14AWG
- TAB 3 YEL 14AWG
- TAB 5 BRN 14AWG
- TAB 6 BLU 14AWG
- TAB 4 OUTPUT +
- TAB 7 OUTPUT -

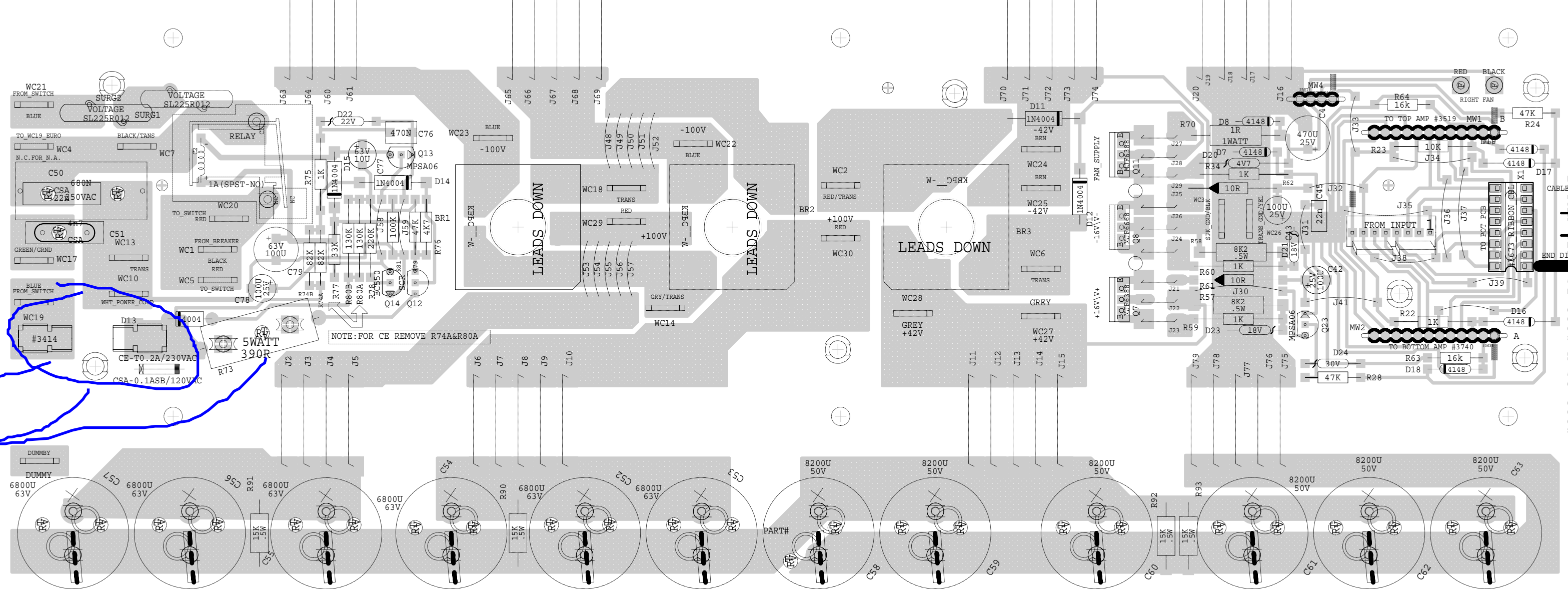
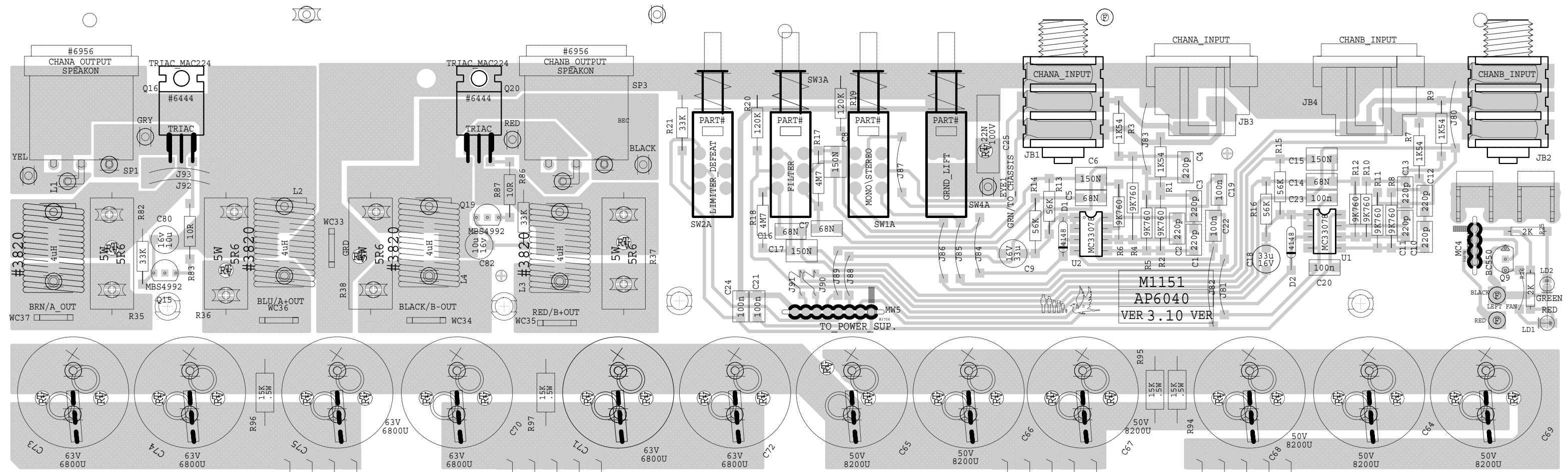
USE 2 OZ. COPPER

ASSEMBLY M1150-4.00
ASSEMBLY M1150-4.00

M1150-PCB DATABASE HISTORY

#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAY12/99	1.00	PILOT RUN RELEASE
2	AUG/10/99	2.00	PC#6043 RELAY CONNECTIONS ALTERED
3			ADD R30 R50A/B R52A/B 10K0
4			->4K99 R35C/R42C 20K0->10K0
5			PC#6042 C50A B TO C Q24A ADD J63 TO
6			ELIMINATE SHORT TO SCREW
7			PC#6033 R163A/R158A->R163A/J158A
8	AUG/24/99	3.00	PC#6066 C126C 1 PIN V->GND
9	SEP/16/99		PC#6098 CHANGES AS PER PC
10	OCT/18/99		#3673 RIBBON->#3562 SKT
11	NOV/26/99	4.00	PC#6066 REPAIR ERROR

00.4-0211M YJHM22A



ETCH GUIDE

"000.01 X "000.24" M4
CABLE OTHER
END DIRECTION
BLANK SIZE=15.000"



50% COPPER

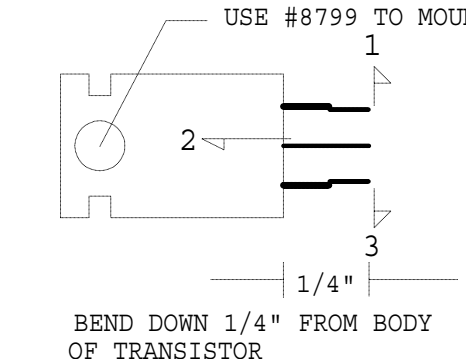
ETCH GUIDE

ASSEMBLY M1151-3.10
PCB MECH M1151-3.10

SOLDSIDE M1151-3.00

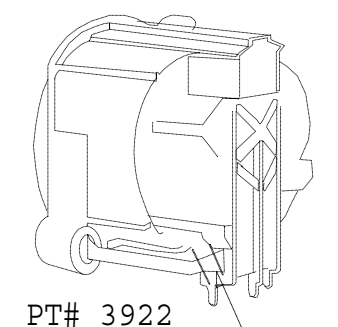
M1151.PCB DATABASE HISTORY			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	AUG/10/99	2.00	PC#6034 LD2 ROTATED
2	.	.	TRIACS Q18, Q22 DELETED. R85, Q17, C81
3	.	.	R84, R88, Q21, C83, R89 DELETED
4	.	.	TRIACS ENLARGED
5	SEP/28/99	3.00	PC#6125 CHANGE SPACING R73_PC#6128
6	.	.	CHANGE SPAING OF COILS
7	OCT/18/99	.	REPLACE 16 PIN IC-SOCKET WITH #3673
8	.	.	RIBBON CABLE
9	JAN/31/00	3.10	PC# Q23 BC550->MPSA06_(TO MATCH SCHEMATIC)
10	.	.	
11	D	V	N
12	D	V	N
13	D	V	N
14	D	V	N
15	D	V	N
16	D	V	N
17	D	V	N
18	D	V	N
19	D	V	N
20	D	V	N
21	D	V	N
22	D	V	N
23	D	V	N

1 MOUNTING DETAILS FOR Q30 TRIAC



USE #8799 TO MOUNT TRIAC Q30

IMPORTANT AFTER MOUNTING DEVICE DO NOT CUT LEGS #2 OR #3 BEND LEGS IN DIRECTION SHOWN IT IS IMPERATIVE THAT LEGS MARKED 2 AND 3 ARE BENT FLAT AGAINST THE COPPER SURFACE



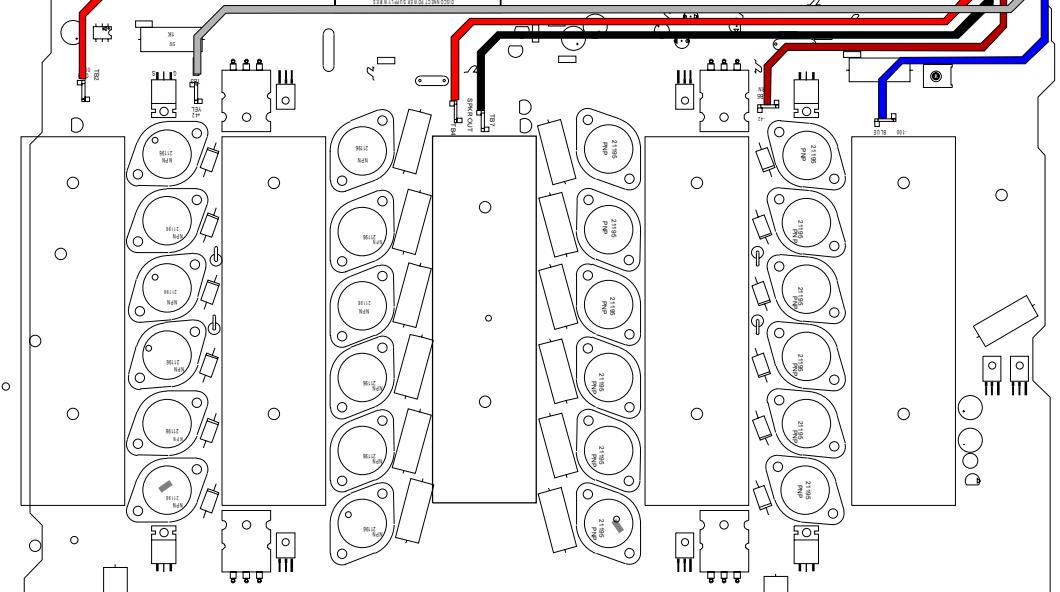
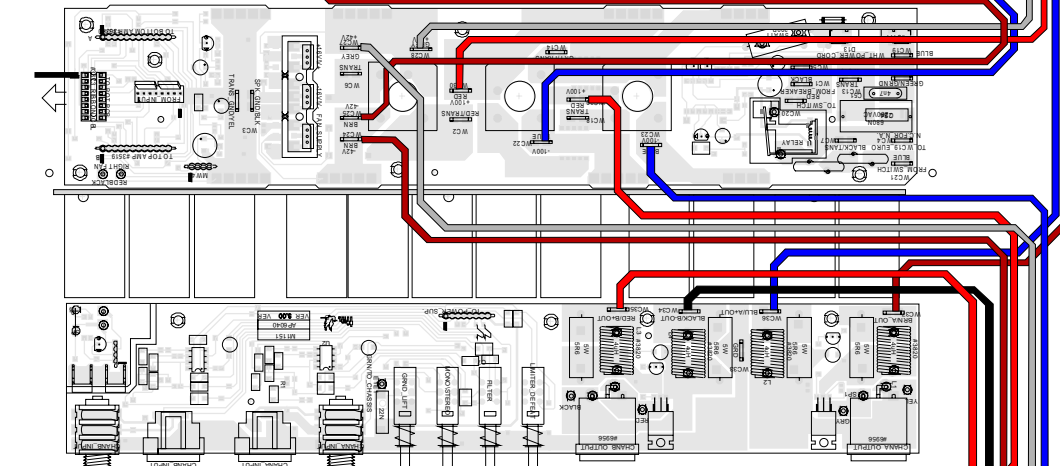
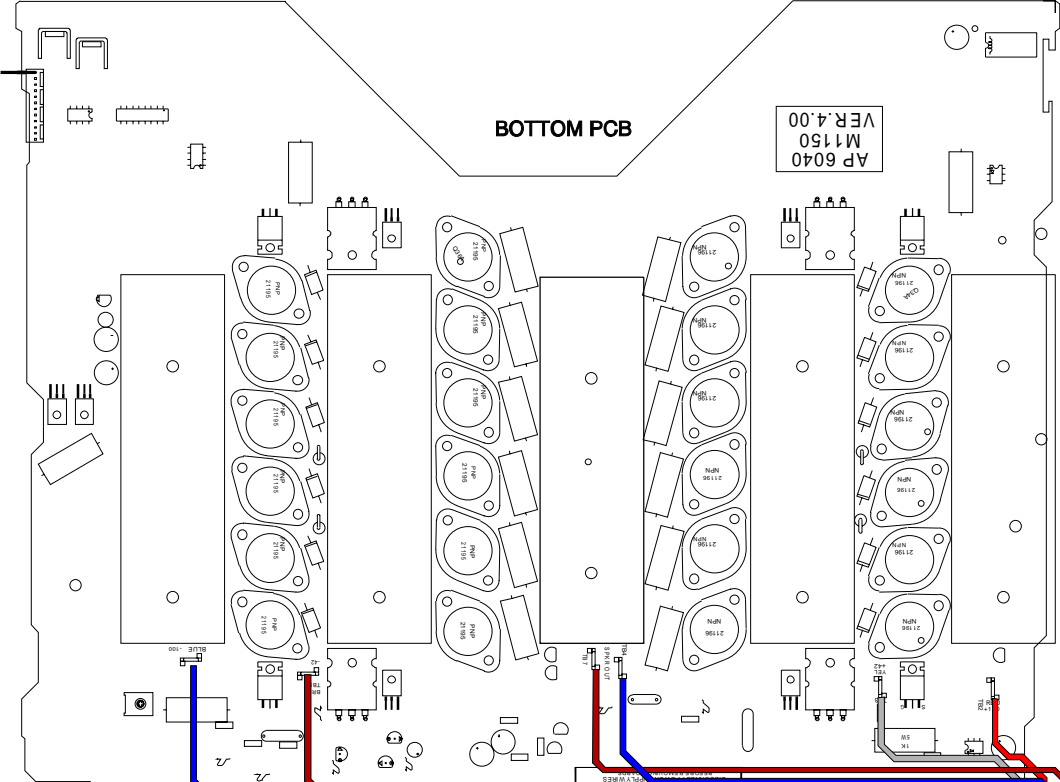
PT# 3922

THIS CONNECTION MUST BE BROKEN HERE

- 2 CUT LARGE CAP LEADS BEFORE WAVE SOLDER.
- 3 SCREW DOWN BRIDGES WITH #8753 SCREW.

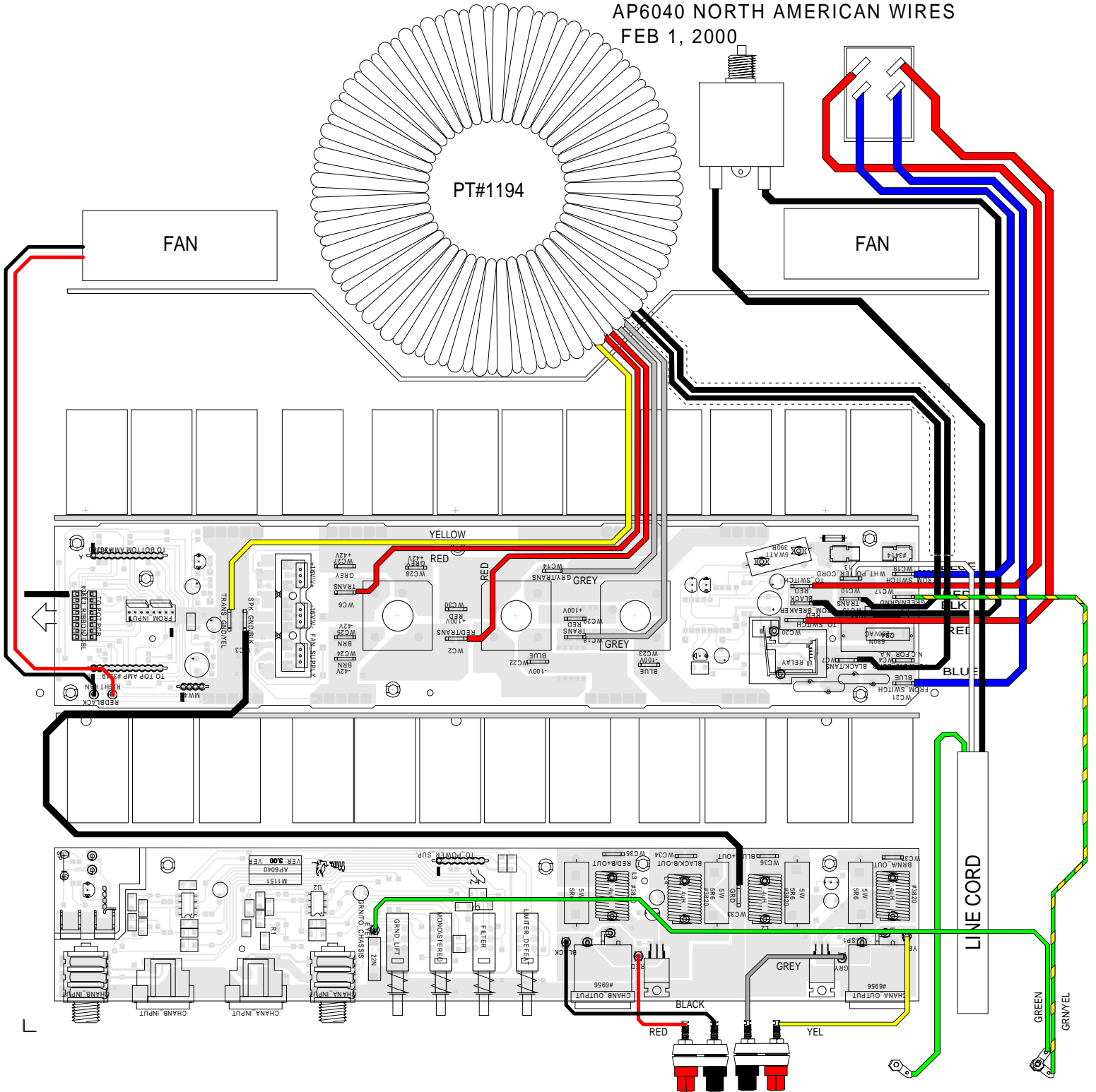
BOTTOM PCB

AP 6040
M150
VER.4.00



TOP PCB
THIS BOARD IS FLIPPED
SO SOLDER SIDE IS UP

AP 6040
M150
VER.4.00



FILE NAME AP6040AC.DRW

