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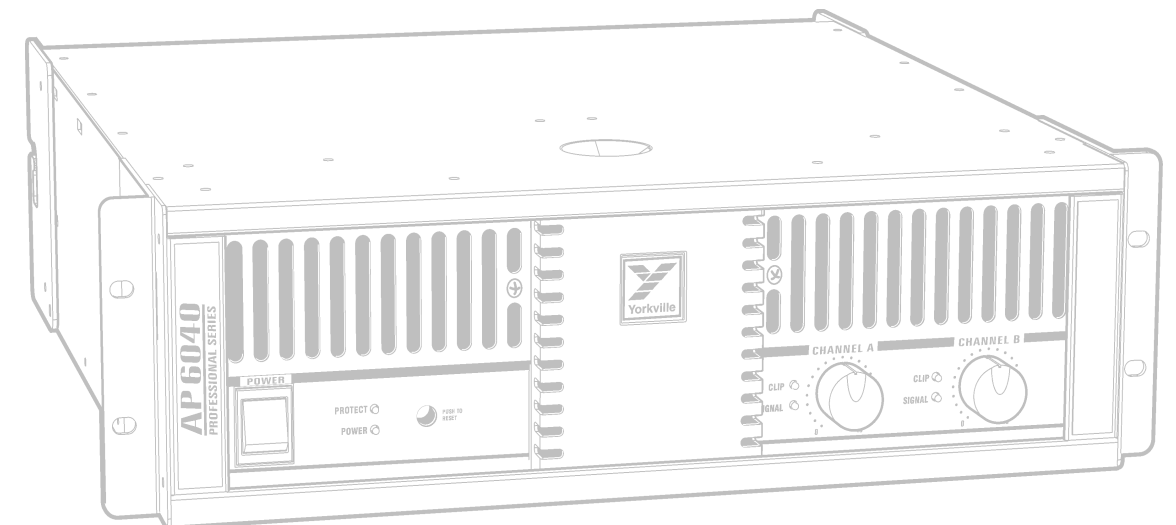
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Quality and Innovation Since 1963
Printed in Canada



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.

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.**

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

AVIS:

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

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

Read Instructions:

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

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.

Veillez lire le manuel:

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

Emballage:

Conservez la boîte au cas ou l'appareil devait étre 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 étre 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 étre prises afin d'éviter 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'appareil ne doit pas étre exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit étre 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 étre effectués 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.

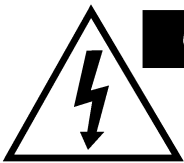
Service:

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

AP6040 Parts List 5/18/00

YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
3562	16 PIN SOCKET W3116T 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	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	4898	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 SECURA-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	5880	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"	
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	
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 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 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
5267	100U 25V 20%CAP T&R RAD .2"EL	3	4864	1/4W 2K7 5% T&R RES	4			

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DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE
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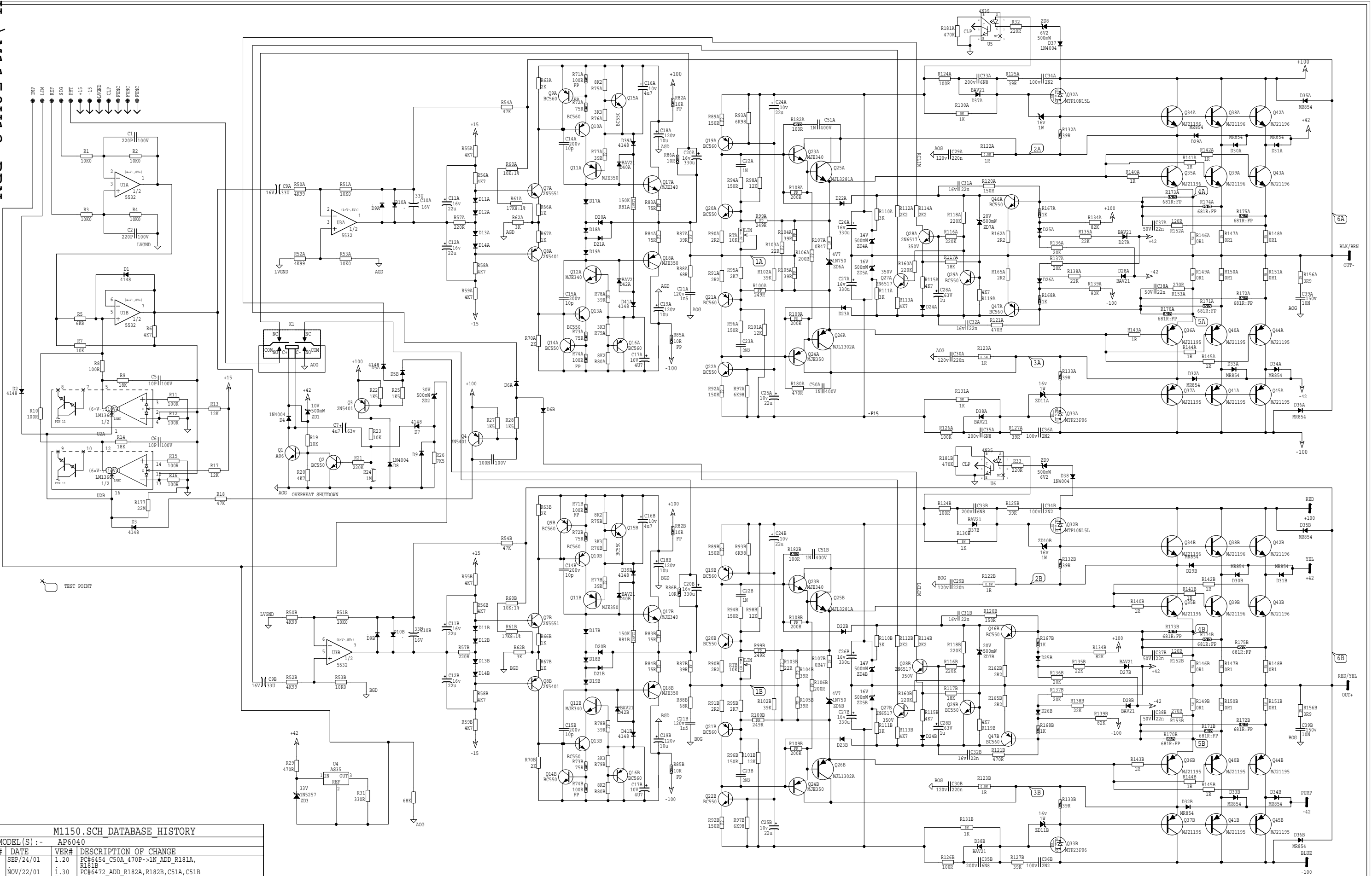
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5908	GRN 3MM LED 1V9 20MA .4SPCER T&R	3	5898	8200U 50V 20%CAP RADIAL ELECT BULK	12	4982	1/4W 4K7 5%MINI T&R RES	34
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6419	BRIDGE 35A 400V WIRE LEAD GI3504	3	4520	10K TRIM POT	4	4828	1/4W 6K8 5% T&R 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
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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 NPN 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 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
5267	100U 25V 20%CAP T&R RAD .2"EL	3	4864	1/4W 2K7 5% T&R RES	4			

U:M1150V13.PRN



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			
4			
5			
6			
7			
8			
9			
10			



WARNING

ETCH GUIDE

ADD #8629 SPACERS ONLY ON
5 WATT RESISTORS
R130A, R131A R130B AND R131B

 #8871 4-40X 1/2" BOLT


T264 DEVICE
#3797 THERMO PAD

MOUNTING HARDWARE FOR Q17B, Q18B
Q23A Q24A Q23B Q24B



#3501 BELL WASHER

HEATSPREADER #3823 THERMO PAD
PCB



#8741 4-40X 1/2" B

#8667 SHOULDER WAS
T-220 DEVICE
#3846 MICA

3761 BOLT

#8761 BOLT

TO-3 TRANSISTOR

#3815 MICA

HEATSPREADER

#8663 SPACER

MICA GREASE IS REQUIRED ON BOTH SIDES OF THE MICA PAD

#8760 6-32 KEPS NUT

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

TB2	RED	14AWG
TB3	YEL	14AWG
TB5	BRN	14AWG
TB6	BLU	14AWG

TB2	RED	14AWG
TB3	YEL	14AWG
TB5	BRN	14AWG
TB6	BLU	14AWG

TB4	OUTPUT +
TB7	OUTPUT -

M1150-PCB_DATABASE_HISTORY				1	MAY/08/00	5.00	REDUCE WIDTH OF PCB EACH SIDE .125"
MODEL(S) :- AP6040				2			PC# 6262 MOVE C20B R86B
#	DATE	VER#	DESCRIPTION OF CHANGE	3	SEP/24/01	6.00	PC#5303 ADD C27C,C28C
1	MAY/12/99	1.00	PILOT RUN RELEASE	4			PC#6454 C50A 470P->1N ADD_R181A,R181B
2	AUG/10/99	2.00	PC#6043 RELAY CONNECTIONS ALTERED	5			CORRECT TRACE AT Q23B
3	.	.	PC# ADD R30 R50A/B R52A/B_10K0	6	NOV/19/01	7.00	PC#6472 ADD R182A,R182B,C51A,C51B
4	.	.	->4K99 R35C/R42C 20K0->150K	7	NOV/22/01		NEW_SOLDERMASK_FOR_TABS
5	.	.	PC#604Z C50A B TO C Q24A ADD J63 TO	8	JAN/15/02	8.00	
6	.	.	ELIMINATE SHORT TO SCREW	9			
7	.	.	PC#6033 RI63A/RI58A->J163A/J158A	10			
8	AUG/24/99	3.00	PC#6065 C126C 1 PIN V->GND	11			
9	SEP/16/99		PC#6098-CHANGES-AS PER-PC	12			
10	OCT/18/99		#3673 RIBBON->#356Z SKT	13			
11	NOV/26/99	4.00	PC#6066 REPAIR ERROR	14			
				15			
				16			

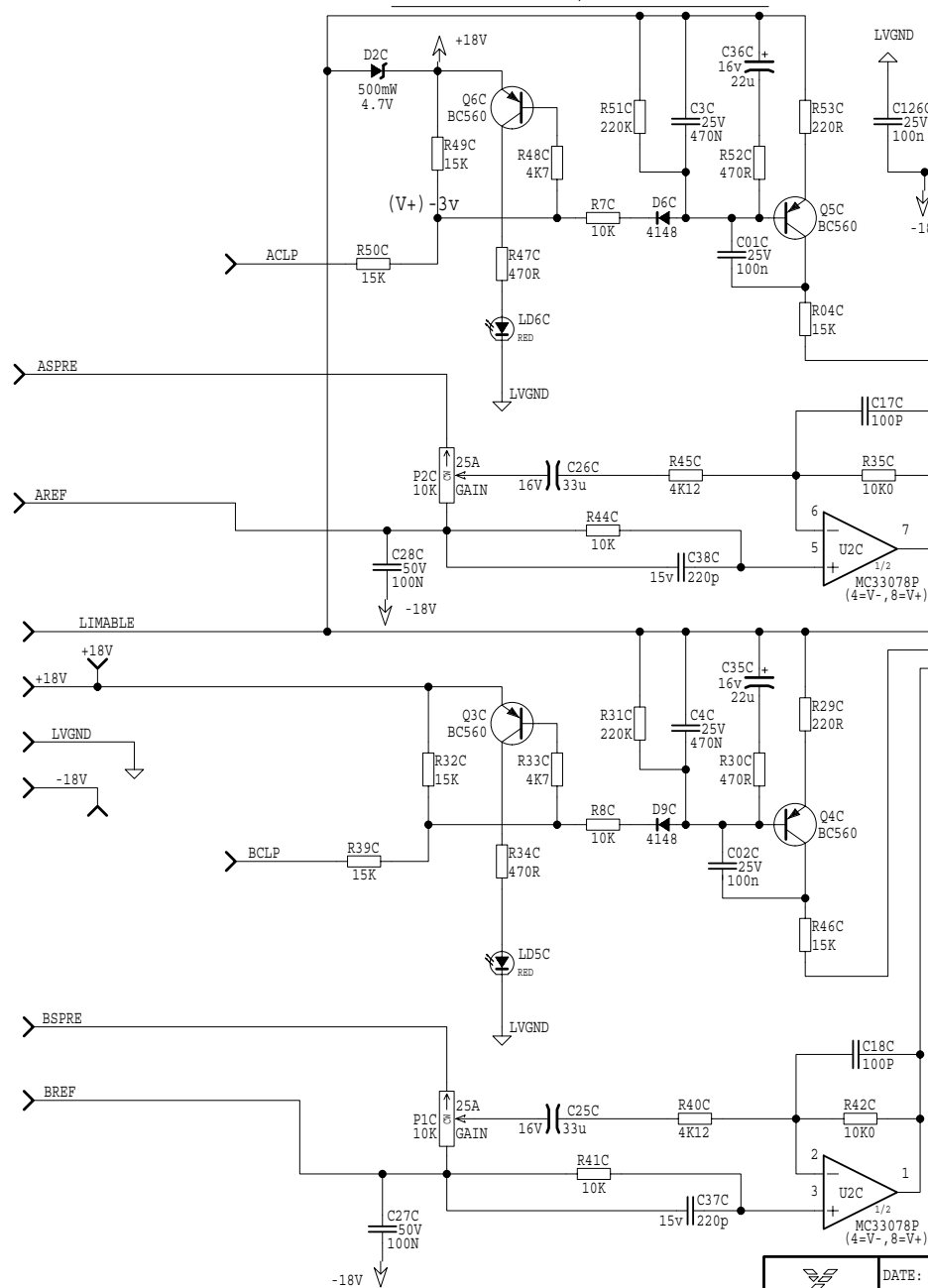
ASSEMBLY	M1150-8.00
ASSEMBLY	M1150-8.00

USE 202 CONFERENCE

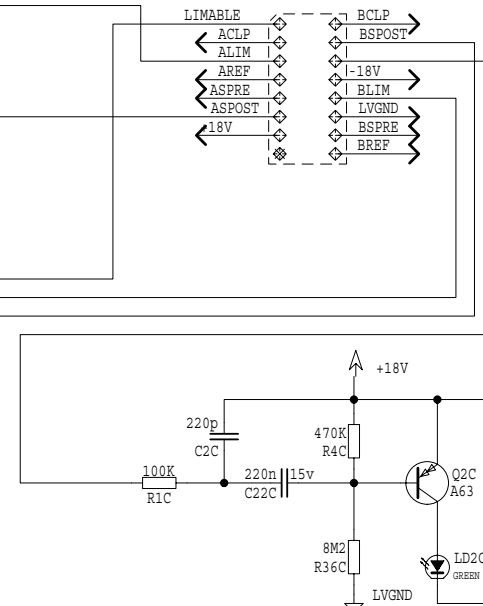
ETCH
GUIDE

ETCH GUIDE USE 2 OZ. COPPER

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



DATE: SEP/24/2001

MODELS: AP6040
POWER AMP POT PCB

SHEET OF 1

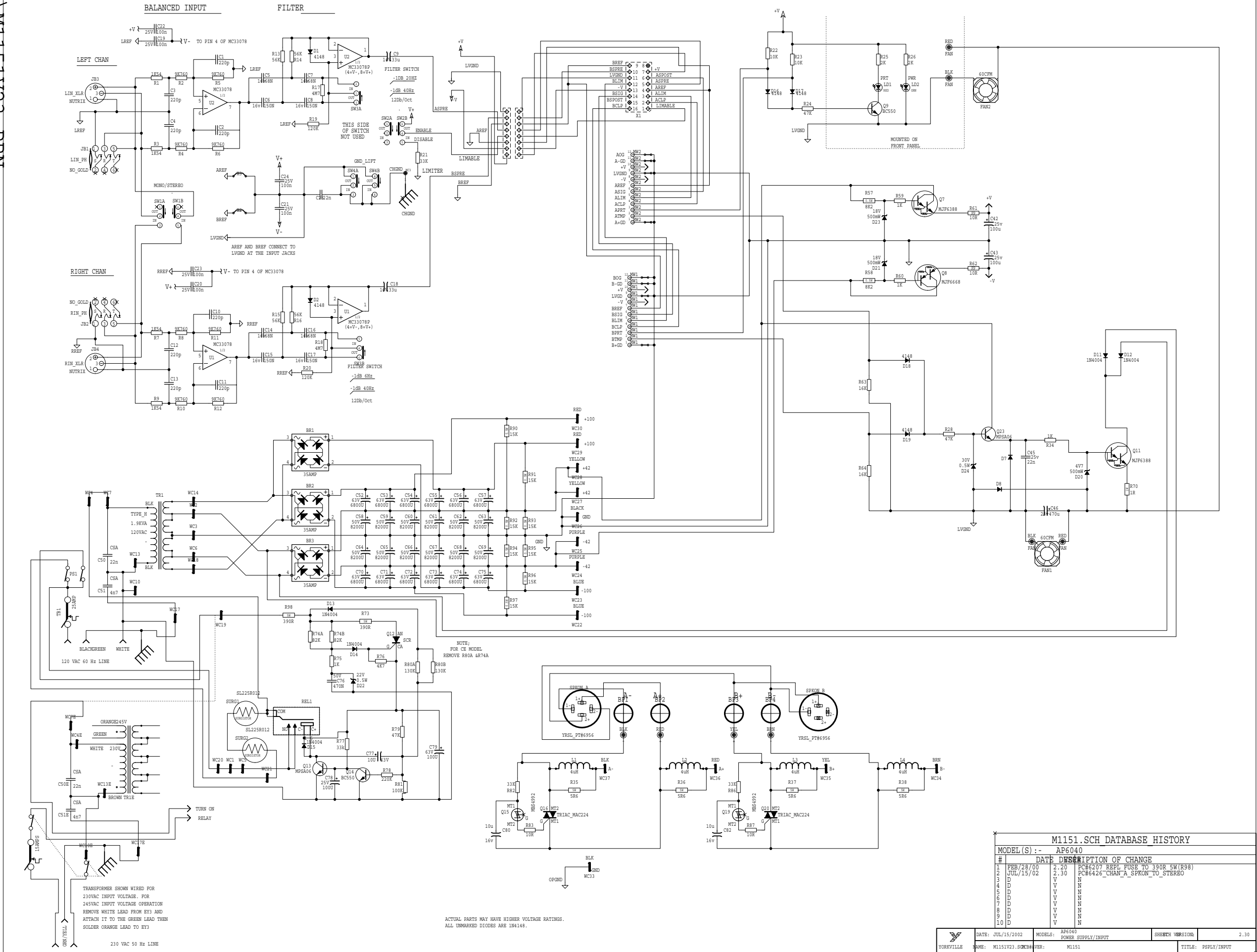
SCH VERSION: 1.20

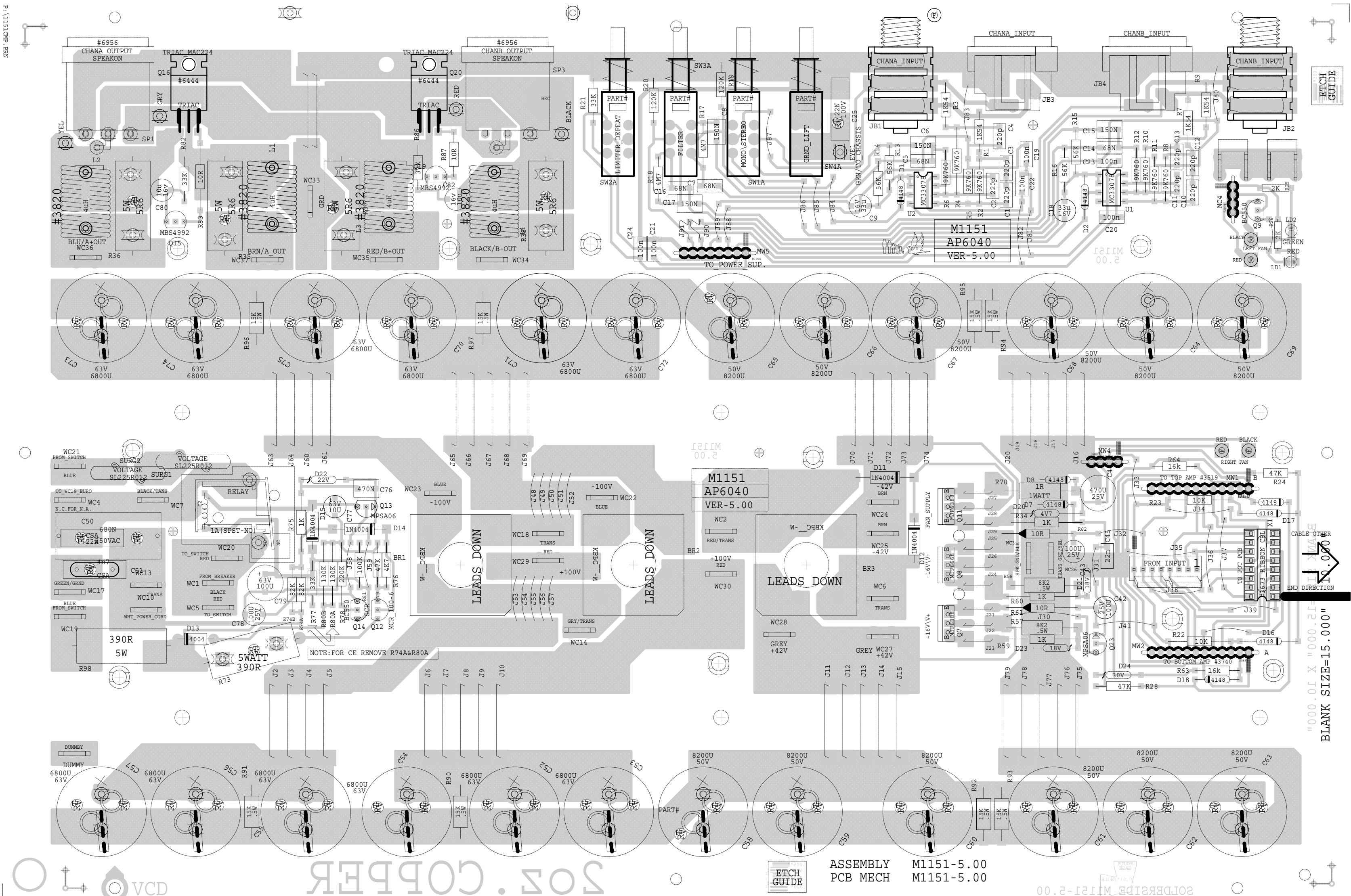
NAME: M1150.SCH

PCB#&VER: M1150

TITLE: 2000W.PWR.AMP

U:\M1151V23.PRN





M1151.PCB_DATABASE_HISTORY				#	DATE	VER	DESCRIPTION OF CHANGE
MODEL(S) :- AP6040				24	D	V	N
#	DATE	VER	DESCRIPTION OF CHANGE	25	D	V	N
1	AUG/10/99	2.00	PC#6034 LD2 ROTATED	26	D	V	N
2	.	.	TRIACS Q18,Q22 DELETED. R85,Q17,C81	27	D	V	N
3	.	.	R84,R88,Q21,C83,R89 DELETED	28	D	V	N
4	.	.	TRACES ENLARGED	29	D	V	N
5	SEP/28/99	3.00	PC#6125 CHANGE SPACING R73_PC#6128	30	D	V	N
6	.	.	CHANGE SPAING OF COILS	31	D	V	N
7	OCT/18/99	.	REPLACE 16 PIN_IC-SOCKET WITH #3673	32	D	V	N
8	JAN/31/00	3.10	RIBBON_CABLE	33	D	V	N
9	.	.	PC# Q23 BC550->MPSA06_(TO_MATCH	34	D	V	N
10	.	.	SCHEMATIC)	35	D	V	N
11	FEB/23/00	4.00	PC#6207 REPLACE FUSE WITH 390R 5W	36	D	V	N
12	JUN/02/00	.	PC#6242 SHEAR MOVED 0.050" IN X	37	D	V	N
13	NOV/15/01	4.10	ADD RTV HOLES TO RELAY	38	D	V	N
14	JUL/08/02	4.20	PC#6553 REPLACE SHEAR WITH ROUTE	39	D	V	N
15	JUL/15/02	5.00	PC#6395 MOVE R98 PC#6426_REWIRE	40	D	V	N
16	.	V	CHAN_A_SPKON_TO_STEREO	41	D	V	N
17	.	V		42	D	V	N
18	.	V		43	D	V	N
19	.	V		44	D	V	N
20	.	V		45	D	V	N
21	.	V		46	D	V	N
22	.	V		47	D	V	N
23	.	V		48	D	V	N
24	.	V		49	D	V	N
25	.	V		50	D	V	N

PRODUCTION NOTES

1 MOUNTING DETAILS FOR Q30 TRIAC

USE #8799 TO MOUNT TRIAC Q30

BEND DOWN 1/4" FROM BODY OF TRANSISTOR

2 CUT LARGE CAP LEADS BEFORE WAVE SOLDER.

3 SCREW DOWN BRIDGES WITH #8753 SCREW.

4 FOR CE REMOVE R74A&R80A

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



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Email: pmourtos@yorkville.com
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.

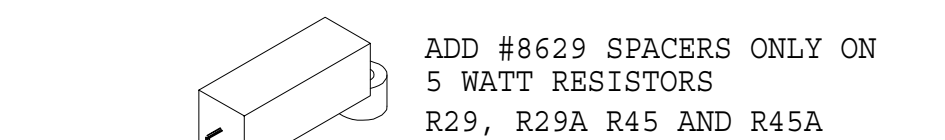
All units should be modified as soon as possible. The units can either be returned to Yorkville for modification, or can easily be modified in the field by a qualified service technician. We will, of course, accept warranty claims for this modification.

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.



#8871 4-40X 1/2" BOLT

#3501 BELL WASHER

T264 DEVICE

#3797 THERMO PAD

HEATSPREADER

PCB

#8701 4-40 KEPS NUT

TORQUE 4 INCH/LB

#8741 4-40X 1/2" BOLT

#3501 BELL WASHER

T126 TYPE DEVICE

#3797 THERMO PAD

HEATSPREADER

PCB

#8701 4-40 KEPS NUT

TORQUE 4 INCH/LB

Diagram illustrating the assembly components and torque specification:

- #8741 4-40X 1/2" BOLT
- #3501 BELL WASHER
- #8667 SHOULDER WASHER
- T-220 DEVICE
- #3846 MICA
- PCB
- #8701 4-40 KEPS NUT
- TORQUE 4 INCH/LB

#8835 BOLT

TO-3 TRANSISTOR

#3815 MICA

HEATSPREADER

#8663 SPACER

MICA GREASE IS REQUIRED ON BOTH SIDES OF THE MICA PAD

#8800 6-32 KEPS NUT

TAB WIRE COLOURS

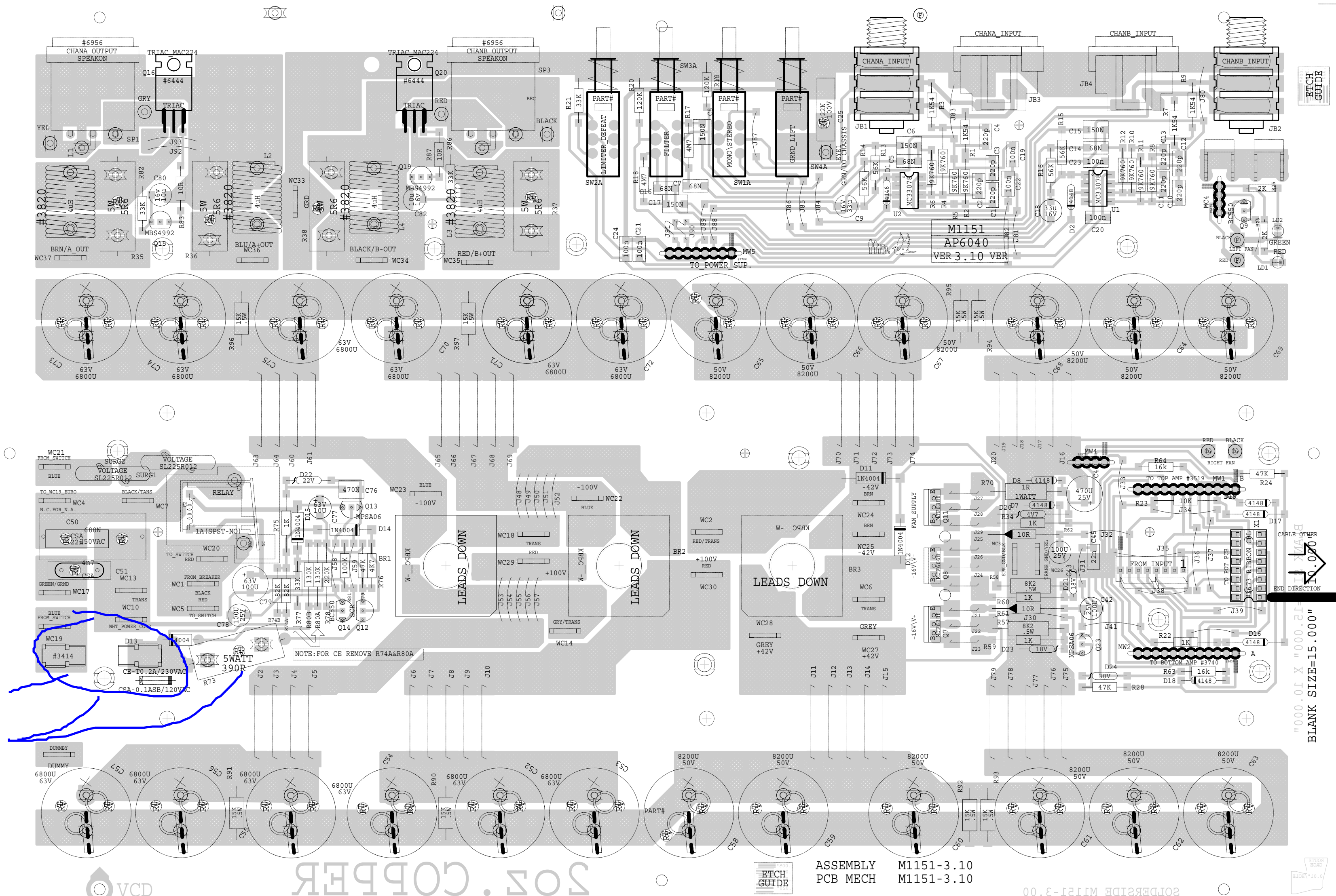
TAB 2	RED	14AWG
TAB 3	YEL	14AWG
TAB 5	BRN	14AWG
TAB 6	BLU	14AWG
TAB 4	OUTPUT	+
TAB 7	OUTPUT	-

M1150-PCB DATABASE HISTORY			
MODEL(S) :- AP6040			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAY/12/99	1.00	PILOT RUN RELEASE
2	AUG/10/99	1.00	PC#6043 RELAY CONNECTIONS ALTERED
3			PC#0 RS485B RS232B_10K0
4			-4K93R R35C7/R42C 20K0_510K0
5			PC#6042 C50A B TO C Q24A ADD_U63 TO
6			PC#6043 TERMINATE SHORT TO GND
7			PC#6033 RI133B/RI58A->J163A/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	NOV/27/99		#3673 RTB00B RTB00C
11	NOV/27/99		PC#6066 REPAIR ERROR

USE 2 OZ. COPPER

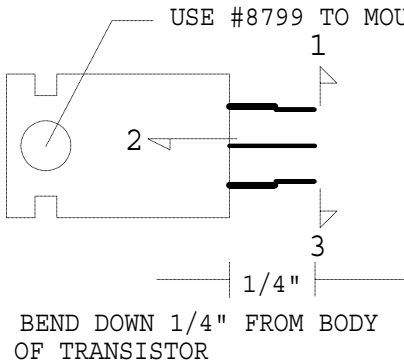
ASSEMBLY	M1150-4.00
ASSEMBLY	M1150-4.00

ETCH
GUIDE



M1151.PCB_DATABASE_HISTORY				#	DATE	VER#	DESCRIPTION OF CHANGE
MODEL(S) :- AP6040				24	D	V	N
1	AUG/10/99	2.00	PC#6034 LD2 ROTATED	25	D	V	N
2	.	.	TRIACS Q18,Q22 DELETED. R85,Q17,C81	26	D	V	N
3	.	.	R84,R88,Q21,C83,R89 DELETED	27	D	V	N
4	.	.	TRACES ENLARGED	28	D	V	N
5	SEP/28/99	3.00	PC#6125 CHANGE SPACING R73_PC#6128	29	D	V	N
6	.	.	CHANGE SPAING OF COILS	30	D	V	N
7	OCT/18/99	.	REPLACE 16 PIN_IC-SOCKET WITH #3673	31	D	V	N
8	JAN/31/00	3.10	RIBBON_CABLE	32	D	V	N
9	.	.	PC# Q23 BC550->MPSA06_(TO_MATCH	33	D	V	N
10	.	.	SCHEMATIC)	34	D	V	N
11	D	V	N	35	D	V	N
12	D	V	N	36	D	V	N
13	D	V	N	37	D	V	N
14	D	V	N	38	D	V	N
15	D	V	N	39	D	V	N
16	D	V	N	40	D	V	N
17	D	V	N	41	D	V	N
18	D	V	N	42	D	V	N
19	D	V	N	43	D	V	N
20	D	V	N	44	D	V	N
21	D	V	N	45	D	V	N
22	D	V	N	46	D	V	N
23	D	V	N	47	D	V	N
				48	D	V	N
				49	D	V	N
				50	D	V	N

1 MOUNTING DETAILS FOR Q30 TRIAC



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.

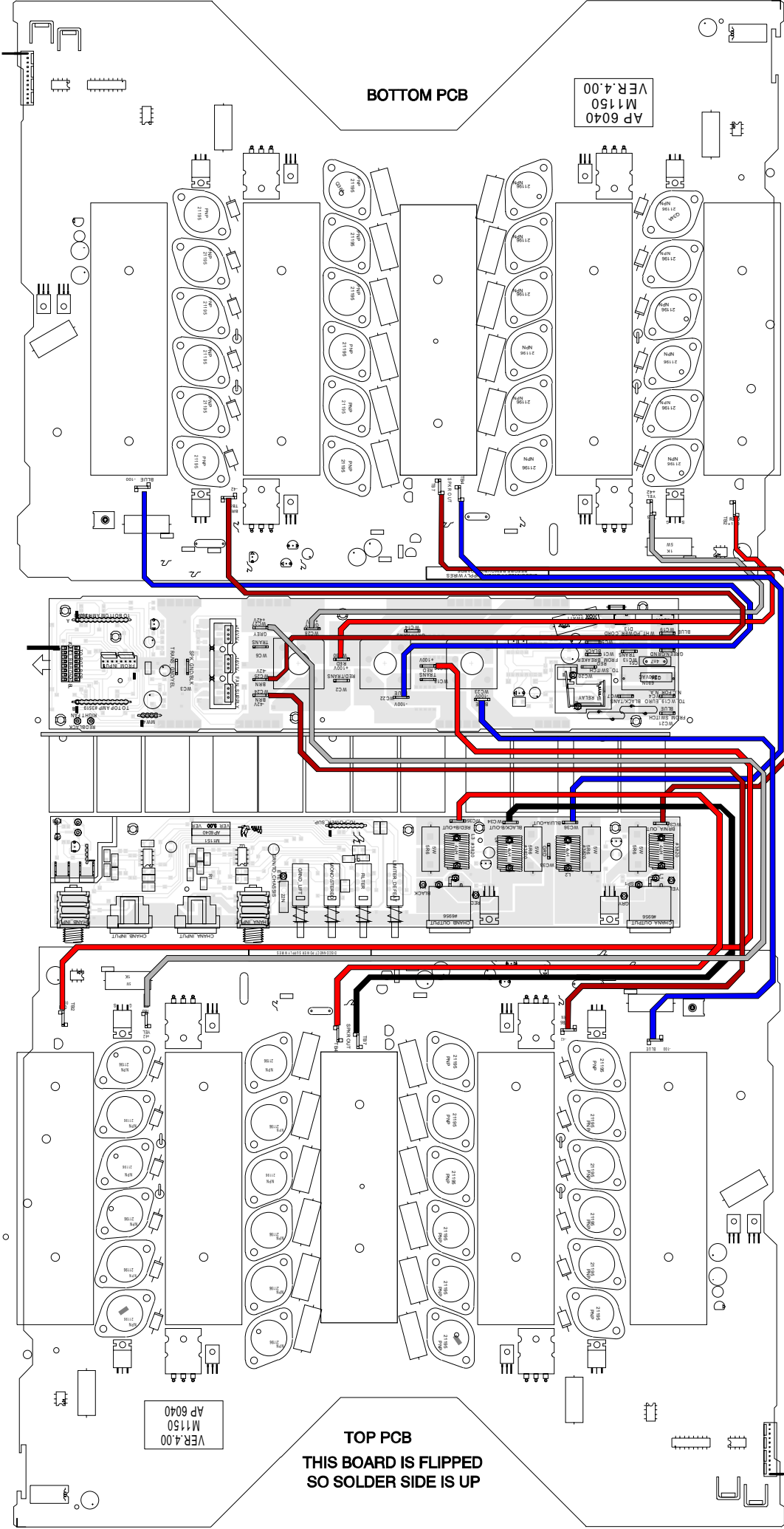
"000.01 X "000.21
BLANK SIZE=15.000"

BOTTOM PCB

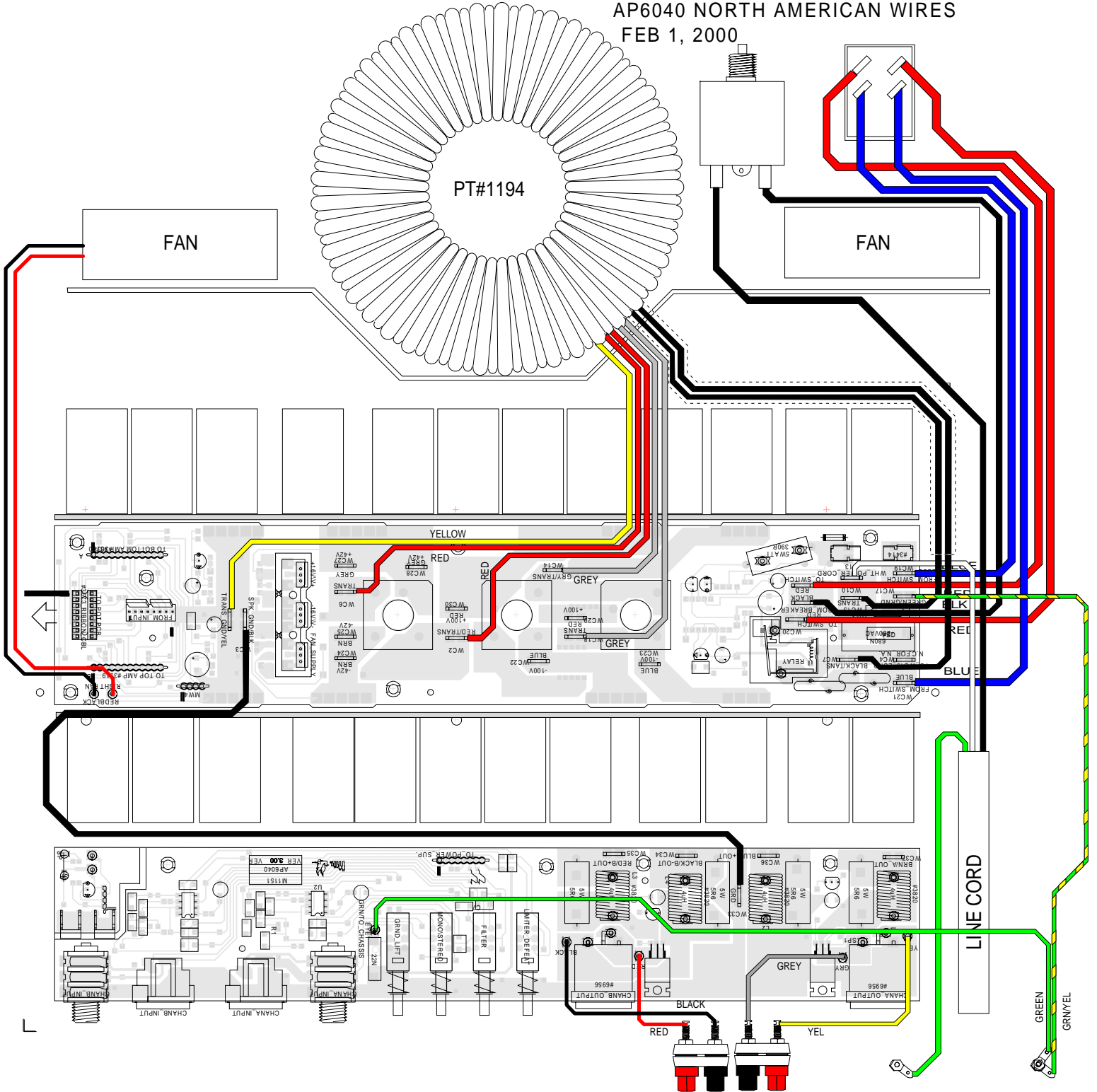
AP 6040
M1150
VER.4.00

TOP PCB
THIS BOARD IS FLIPPED
SO SOLDER SIDE IS UP

AP 6040
M1150
VER.4.00



AP6040 NORTH AMERICAN WIRES
FEB 1, 2000



FILE NAME AP604OAC.DRW

FAN

FAN

DUMMY
TAB

YELLOW

RED



01

ANS

2

20-1740

MON

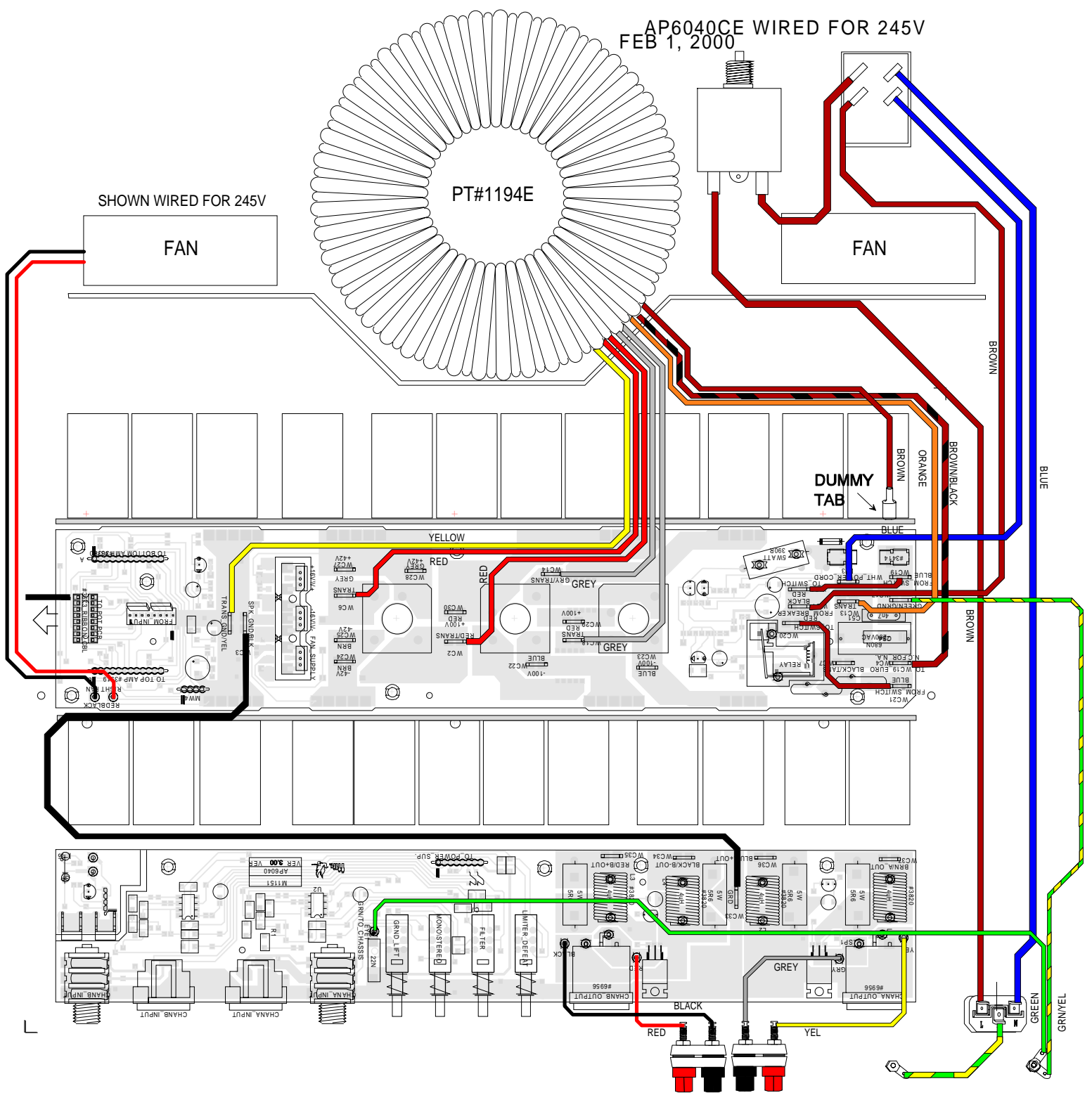
SYSTEM

1

FI

FILE NAME AP604OAC.DRW

AP6040CE WIRED FOR 245V
FEB 1, 2000



FILE NAME AP604OAC.DRW