400W into 4 or 2 ohms per channel

WORLD HEADQUARTERS
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Quality and Innovation Since 1963
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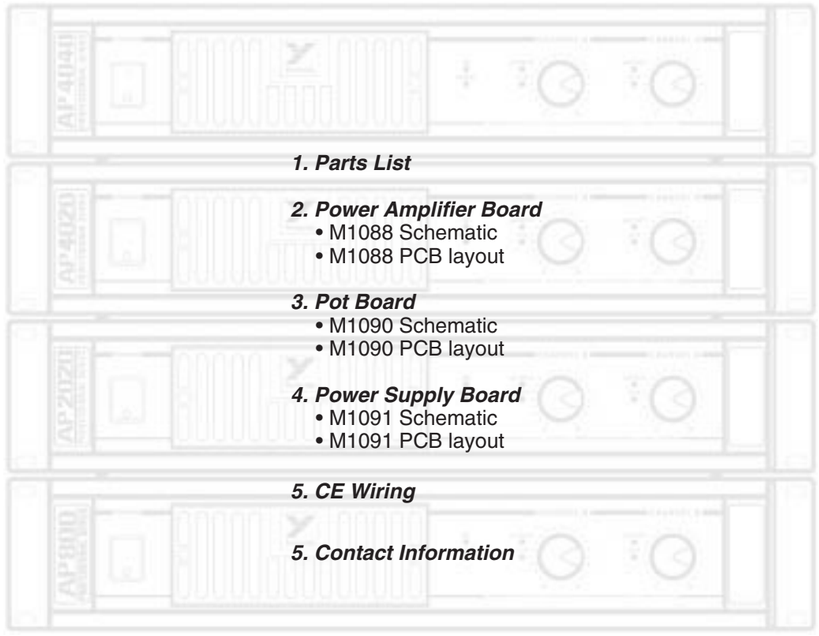
AP 800
PROFESSIONAL SERIES



SERVICE MANUAL

s-ap800.pdf v.3.1 8/2001

IMPORTANT SAFETY INSTRUCTIONS

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

CAUTION:

DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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 all three blades can be fully inserted to prevent blade exposure. Precautions should be taken so that the grounding scheme on the unit is not defeated.

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.

AFIN DE RÉDUIRE LES RISQUE DE CHOC ÉLECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU NE CONTIENT AUCUNE PIÈCE RÉPARABLE PAR L'UTILISATEUR.

CONSULTEZ UN TECHNICIEN QUALIFIÉ 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.

Warning:

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.

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.

AP800 Parts List 8/19/98

YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
3570	14 PIN SCKT 641261/3 OR W3114T	1	3601	RING TERMINAL 16AWG WIRE & #8 SCREW	1	4978	1/4W 6K8 5%MINI T&R RES	2
6405	RED 3MM LED 1V7 5MA BRIGHT PACE	3	3615	STAR RING TERMINAL 18 AWG #10 SCREW	4	4926	1/4W 7K5 5% .2"U T&R RES	4
6408	GREEN 3MM LED 1V9 5MA FROSTED	3	3682	250 MALE PCB TAB BULK ON CATRIGE	19	4990	1/4W 8K2 5%MINI T&R RES	2
6419	BRIDGE 35A 400V WIRE LEAD GI3504	1	3447	DUAL BINDING POST TPP3	2	4792	1/4W 8K25 1% T&R RES	4
6425	BAV21 200V 0A25 DIODE T&R	4	3498	M203-02 PLAIN PC MNT JK SKT	2	4762	1/4W 9K760 0.1% *** T&R RES	8
6438	1N4004 400V 1A0 DIODE T&R	9	6956	SPEAKON CONN PCB MNT HOR NL4MD-H	3	4829	1/4W 10K 5% T&R RES	5
6825	1N4148 75V 0A45 DIODE T&R	44	3660	FEMALE PC MOUNT XLR NTRX.NC3FPR-H-O	2	6116	1/4W 10K0 1%MINI MF T&R RES	2
6827	1N5402 200V 3A0 DIODE	1	3451	0.089 OD SMALL EYELET ELECTROPLATED	41	4901	1/4W 13K 5% T&R RES	1
6934	MR854 400V 3A0 DIODE FAST RECOV	4	3414	INTERNATIONAL PC MOUNT FUSEHOLDER	2	4830	1/4W 15K 5% T&R RES	8
6733	BAT85/11330V 0A2 DIODE SCHTKY T&R	6	2407	2.5 AMP SLO-BLO .25X1.25 FUSE	1	6123	1/4W 20K0 1%MINI MF T&R RES	2
6439	1N5225B 3V0 0W5 ZENER 5% T&R	2	3860	FAN 80MM X 80MM 40CFM 12VDC	1	4632	1/2W 22K 5% T&R RES	2
6440	1N750ARL 4V7 0W5 ZENER 5% T&R	5	8434	AP SERIES PLASTIC HANDLE PAIR	1	4840	1/4W 33K 5% T&R RES	1
6436	1N753ARL 6V2 0W5 ZENER 5% T&R	2	3897	P.C.B. HEATSINK VERTICAL MOUNT	1	6122	1/4W 33K 5%MINI T&R RES	4
6488	1N5236BRL 7V5 0W5 ZENER 5% T&R	4	3501	B52200F006 COMP WASH #4 SMALL	1	4794	1/4W 37K90 0.1% *** T&R RES	2
6486	1N5244B 14V0 0W5 ZENER 5% T&R	1	3745	DUAL XSISTOR SPLIT SPRING PLATE ZN	8	4878	1/4W 43K 5% T&R RES	2
6822	1N4745A 16V0 1W0 ZENER 5% T&R	4	3800	BELLY BUTTON #BB1 CORDS CANADA	2	6119	1/4W 47K 5%MINI T&R RES	8
6824	1N5246B 16V0 0W5 ZENER 5% T&R	1	8499	6-32X1 STEEL PEM STUD	1	4772	1/4W 82K5 1% T&R RES	10
6432	1N5248B 18V0 0W5 ZENER 5% T&R	2	3510	B52200F005 COMP WASH #4 LARGE	1	4838	1/4W 100K 5% T&R RES	5
6465	1N5250B 20V0 0W5 ZENER 5% T&R	2	3788	QUICKON MALETAB	1	6120	1/4W 100K 5%MINI T&R RES	5
6485	1N5256C 30V0 0W5 ZENER 2% T&R	4	3799	ROUND BUMPER BUTTON BLACK	3	4841	1/4W 220K 5% T&R RES	2
5101	BC550C TO92 NPN TRANS. T&R	20	3803	NYLON SECUR-A-TACH MINI PLASTIC TIE	1	6126	1/4W 220K 5%MINI T&R RES	2
5102	BC560C TO92 PNP TRANS. T&R	13	3810	4" NYLON CABLE TIE	17	6130	1/4W 240K 5%MINI T&R RES	3
5103	MPSA06 TO92 NPN TRANS. T&R	5	3827	SQUARE BUMPER BUTTON BLACK	6	4865	1/4W 390K 5% T&R RES	1
5104	MPSA56 TO92 PNP TRANS. T&R	1	8433	AP SERIES PLASTIC KNOB	2	4843	1/4W 470K 5% T&R RES	2
5105	MPSA13 TO92 NPN DARLINGTONT&R	3	8661	BUTTON KNOB FLAT GREY	3	4880	1/4W 680K 5% T&R RES	3
5106	MPSA63 TO92 PNP DARLINGTONT&R	3	8437	FAN FILTER LABEL	1	4948	1/4W 1M 5% .2"U T&R RES	2
5119	2N5638 TO92 N CHAN J FETT&R	3	8444	CSA APPROVAL LABELS 1 15/16 X 3/4"		4845	1/4W 2M2 5% T&R RES	3
5123	NJM431L TO92 SHUNT REG T&R2V	2	3468	8? 3/16 SJT AC LINE CORD STRIP 17"	1	4951	1/4W 4M7 5% .2"U T&R RES	2
6814	MJF6668 221D- PNP DARLINGTON	1	3821	HEYCO #1200 STRAIN RELIEF	1	6132	1/4W 8M2 5%MINI T&R RES	2
6815	MJF6388 221D- NPN DARLINGTON	1	8253	AP-800 LEXAN OVERLAY	1	3604	18" 14C-28AWG DIP HDR CABLE .050"	1
6912	BDX53C TO220 NPN DARLINGTON	1	8261	GE VELVET LEXAN .007" X 12" X 24"	0.25	3706	13" 8C-26AWG RIB 1 W/LCK HDR 0.1"	1
6988	MJL21194 TO3P NPN TRANS PWR	6	8910	YORKVILLE PRODUCT MANUAL	1	9005	20GA COLD ROLLED STEEL 4X8? SHEET	7.55
6989	MJL1302A T03P PNP TRANS PWR	2	8900	YORKVILLE WARRANTY CARD 2-YR UNLTD.	2	9006	20GA SATINCOAT STEEL 4 X 8 SHEET	0.21
6990	MJL3281A T03P NPN TRANS PWR	2	3676	8 CIR CABLE HOLDER .098	1	9012	12GA COLD ROLLED STEEL 4? X 8?	1.28
6991	MJL21193 TO3P PNP TRANS PWR	6	8701	4-40 KEPS NUT ZINC	1	9060	14GA COLD ROLLED STEEL 4X8 SHEET	1.5
6840	MC33078P IC DUAL OP AMP	10	8800	6-32 KEPS NUT ZINC	3	9150	.081" 48X96 UTILITY ALUMINUM	0.067
5190	MBS4992 TO92 8V5 DIAC T&R	2	8720	#8 SPRING NUT	2	9200	.025" UTILITY ALUMINUM 4X8 SHEET	0.09
6448	BT139 TO220 16A TRIAC 500V	2	8797	5/16-18 KEPS NUT SJ500	1	9563	NO RIB HEATSINK #200967	1.208
6859	NSL-28AA OPTO-COUPLER	2	3866	ELASTOMER PAD TSIL 3 1.2X6.0	4	8729	#4 X 3/8 FLAT QUAD TYPE A JS500 BLK	6
6880	4N35 OPTO-COUPLER	4	3583	8 CIR WAFER W/LCK 0.1"	1	8798	4-40 X 1.00 PAN PH MS ZINC	1
6464	470K 10% 1/4W THERMISTOR T&R 0.2	1	4597	22AWG STRAN TC WIR	58	8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	4
6477	100K 5% 1/4W THERMISTOR T&R 0.2	2	4599	22AWG SOLID SC WIR T&R	106	8799	#6 X 1/4 PAN PH TYPE B JS500	1
5405	_27P 200V 5%CAP T&R RAD CER.2"NPO	4	5299	22AWG SOLID SC WIR RAD	24	8832	6-32 X 1/4 PAN PH TAPTITE SJ500	6
5199	100P 100V 2%CAP T&R RAD CER.2"NPO	2	4745	5.0W 0R1 5% BLK RES	12	8801	6-32 X 3/8 PAN PH TAPTITE SJ500	2
5410	100P 100V 10%CAP T&R BEAD NPO	2	4877	1/4W 1R 5% T&R RES	6	8829	6-32 X 3/8 FLAT PH TAPTITE BO#4 HEA	10
5412	220P 100V 10%CAP T&R BEAD NPO	12	4694	5.0W 1R8 5% BLK RES	2	8830	6-32 X 7/8 PAN PH MS SJ500	1
6451	__4N7 250V 20%CAP AC Y ONLY RAD10MM	1	4651	1/2W 7R5 5% T&R RES	4	8869	8-18 X 1/2 THRD CUTTING FOR PLASTIC	4
5204	_10N 100V 10%CAP T&R RADIAL.2"FILM	4	4605	1/8W 10R 5% T&R RES	4	8999	8-32 X 5/8 PAN PH TAPTITE SJ500	4
5205	_15N 100V 10%CAP T&R RADIAL.2"FILM	2	4930	1/4W 10R 5% .2"U T&R RES	4	8719	8-32 X 3/4 FILLISTER PHIL MS JS500	2
5210	_22N 100V 10%CAP T&R RADIAL.2"FILM	1	4995	1/4W 33R2 1%FLAME PROOF T&R RES	2	8815	8-32 X 3/4 PAN PH TAPTITE SJ500	2
6435	_22N 275V 20%CAP AC X2 RAD BLK15MM	2	6134	1/4W 47R 5%MINI T&R RES	6	8805	8-32 X 1 PAN PHIL TYPE-C JS500	7
5222	_33N 100V 10%CAP T&R RADIAL.2"FILM	6	4608	1/8W 75R 2%FLAME PROOF T&R RES	4	8809	10-32 X 1/4 PAN PH TAPTITE SJ500	4
5224	_47N 100V 10%CAP T&R RADIAL.2"FILM	2	4602	1/8W 100R 5% T&R RES	2	8736	5/16-18X2-3/4 GRD 5 HEX BOLT SJ500	1
5308	_47N 50V 10%CAP T&R BEAD X7R	2	4859	1/4W 150R 5% T&R RES	1	8821	10-16 X 1 3/32 TYPE B HEX W/SLOT BL	8
5228	100N 100V 5%CAP T&R RADIAL.2"FILM	9	4857	1/4W 220R 5% T&R RES	5	3744	SNAP IN .375 SPACER RICHCO	11
5314	100N 50V 10%CAP T&R BEAD X7R	13	4789	1/4W 324R0 0.1% *** T&R RES	2	3833	8 X 3/8 (250 OD,.171 ID)NY SPACER	1
5231	220N 63V 10%CAP T&R RADIAL.2"FILM	2	4872	1/4W 390R 5% T&R RES	4	3739	CUSTOM .4 LED SPACER	6
5233	330N 63V 5%CAP T&R RADIAL.2"FILM	4	4690	1/2W 442R 1% T&R RES	4	8657	6-32 X 3/8" HEX SPACER ALUMINUM	1
5257	__2U2 63V 20%CAP T&R RADIAL ELE.2"	2	4698	1/8W 475R 1%FLAME PROOF T&R RES	14	8818	3/4 OD X 5/16 ID X .08 THICK WASHER	1
5259	__4U7 63V 20%CAP T&R RADIAL ELE.2"	2	4821	1/4W 470R 5% T&R RES	4	8491	#10 SPLIT LOCK WASHER BO	4
5281	_10U 16V 20%CAP NONPOLAR T&R .2"	2	4799	1/4W 562R 1% T&R RES	4	8850	#10 INT TOOTH LOCKWASHER BO	4
5260	_22U 50V 20%CAP T&R RADIAL ELE.2"	2	4742	10.W 910R 5% BLK RES	4	3429	SPDT ROKR SW QUIK 180? AC PWR BL/BL	1
5631	_22U 50V 20%CAP T&R RAD 7MM EL.2"	2	4981	1/4W 1K 5%MINI T&R RES	4	3436	DPDT PUSH SW PCMT H BREAK B4 MAKE	3
5961	_33U 16V 20%CAP NONPOLAR T&R RAD	8	4935	1/4W 1K5 5% .2"U T&R RES	2	3587	DPDT ROKR SW QUIK 250" AC/PWR SEMKO	1
5267	100U 25V 20%CAP T&R RADIAL ELE.2"	3	4791	1/4W 1K54 1% T&T RES	4	3705	4P3T SLID SW PCMT H	1
5914	100U 63V 20%CAP RADIAL ELECT BULK	2	4825	1/4W 1K8 5% T&R RES	1	5415	180PF 100V 2%CAP T&R	2
5851	220U 100V 20%CAP RADIAL ELEC BULK	4	4808	1/4W 2K 5% T&R RES	2	7584	SQUARE-CUT O RING FOR AP AIR FILTER	1
5618	470U 25V 20%CAP RADIAL ELECT BULK	4	6113	1/4W 2K 5%MINI T&R RES	4	8432	AP SERIES AIR GRILL	1
5887	2200U 50V 20%CAP RADIAL ELECT BULK	1	4587	1/4W 2K32 1% T&R RES	2	8581	CUSTOM PBL TRANSISTOR SPACER	8
5859	4700U 50V 20%CAP RADIAL ELECT BULK	1	4588	1/4W 2K43 1% T&R RES	2		LOGO HOT STAMPED ON AP-800 GRILL	1
5892	6800U 80V 10%CAP RADIAL ELECT BULK	6	4864	1/4W 2K7 5% T&R RES	1	3399	THERMO/BRKR:N/CLOSED OPEN@96C	1
4541	100R TRIM POT ENCLOSED HORIZONTAL	2	4788	1/4W 3K160 0.1% *** T&R RES	2	3966	GREEN 16 AWG PREFUSED WIRE	0.25
4390	_10K AUDIO DETENT STYLE"P22"16MM	2	4596	1/2W 3K6 5%PHILIPS SMAL T&R RES	1	3967	RED 16 AWG PREFUSED WIRE	2.25
3606	12.0 AMP CIRCUIT BREAKER	1	4774	1/4W 4K12 1% T&R RES	2	3968	BLUE 16AWG PREFUSED WIRE	1.333
714	1.5 MIL X 36" CLEAR POLY SHEETING	4	4793	1/4W 4K590 0.1% *** T&R RES	2	3969	WHITE 16AWG PREFUSED WIRE	2
3759	4UH COIL 14AWG ZOBEL VERTICAL	2	4627	1/2W 4K7 5% T&R RES	2	3970	BLACK 16AWG PREFUSED WIRE	9.75
3441	CLIP 250X032 16-14AWG RIGHT ANGLE	4	4827	1/4W 4K7 5% T&R RES	2	3971	YELLOW 16AWG PREFUSED WIRE	2
3478	CLIP 205/187X032 18-22AWG DISCO/INS	1	4982	1/4W 4K7 5%MINI T&R RES	4	1321	AP-800 T?RD	1
3485	CLIP 250X032 18-22AWG RIGHT ANGLE	2	4753	1/4W 5K9 1% T&R RES	8			
3490	CLIP 250X032 14-16AWG DISCO/INSL	16	4717	1/4W 6K19 1%MINI T&R RES	6			

U:\M1088V24.PRN

BALANCED INPUT

FILTER

LEFT CHAN

RIGHT CHAN

MONO-STEREO-BRIDGE

STEREO,MONO: RSIG = RSPOST
BRIDGED: RSIG = LSPOST

RREF AND LREF CONNECT TO LVGND AT THE INPUT JACKS

M1090
VOLUME CONTROL BOARD

CABLE HEADER

FOURTEEN CONDUCTOR RIBBON CABLE

TO M1091

AMPLIFIER SHUTDOWN CIRCUIT

TO POWER SUPPLY BOARD

CLIP SENSE

LONG TERM CURRENT LIMIT SENSING CIRCUIT

BYPASS CAPS

SPEAKER OUTPUT

BINDING POSTS

SPEAKON JB2

B_OUT

SPEAKON JB1

BRIDGE

ISOTHERMAL TO LEFT HEATSINK

ISOTHERMAL TO RIGHT HEATSINK

YORKVILLE	DATE: MAR/07/2001	MODELS: AP_800 -	SCH ISSUE: 2.40
	NAME: M1088.SCH	PCB#: M1088	TITLE: INPUT/PWR_AMP

M1088.SCH DATABASE HISTORY

MODEL(S):- AP-800

#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAY/30/95	1.10	PC#4806 R126R/R130R 47R-->75R
2	JUN/21/95	1.20	DC VOLTAGES ADDED TO SCHEMATIC
3	JUN/26/95	2.00	PC#4848 R50L/R R45L/R 158R-->475R
4	.	.	C29L/R C30L/R 47N-->10N--ADD 4148
5	.	.	DIODE IN SERIES WITH D11L/R AND
6	.	.	D16L/R ADD 475R FROM EMITTER Q14,
7	.	.	Q21 TO THE BASE OF Q8 ALSO FOR Q15,
8	.	.	Q23 TO THE BASE OF Q9
9	AUG/14/96	2.10	PC#5189 C65,C66,C69,C70 27P-->220P
10	D	V	N

11			
12			
13			
14			
15			
16			
17		V	N
18			
19			
20			
21			
22			
23			
24			
25			

MJL1302A
MJL3281A

MJL21193
MJL21194

BT139

MPS4991

BC550C
BC560C

MPSA13
MPSA63

NOTES:
ADJUST RT1R FOR 10mV BETWEEN TP4 @ TP5 WHILE AMP IS IN 4 OHM MODE AT 120VAC

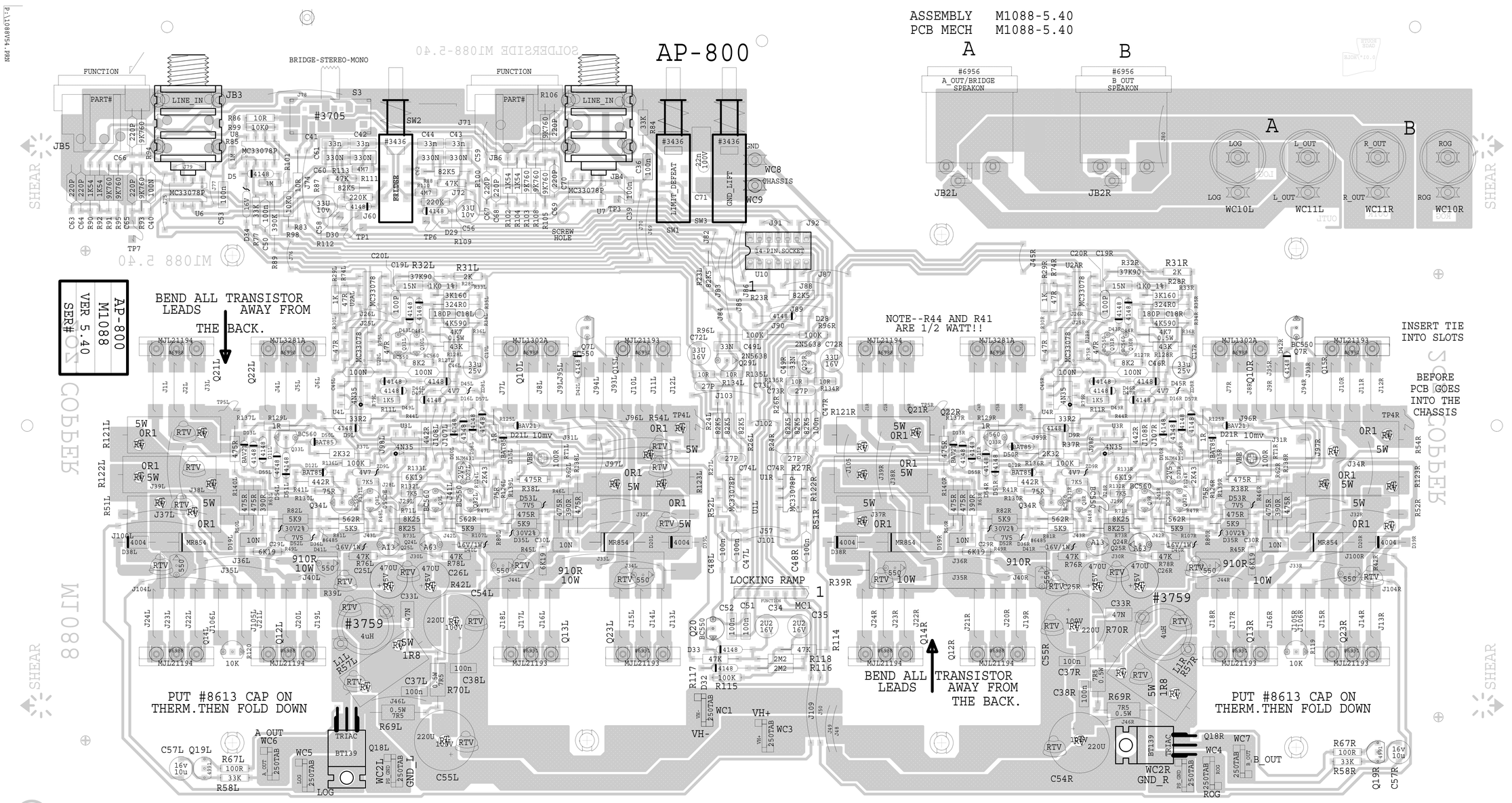
NOTES:
ALL UNMARKED DIODES ARE IN4148
TEST POINT FP2
ALL DC VOLTAGES MEASURED WITH REFERENCE TO GROUND MEASURED @ 120VAC IN 4 OHM MODE

NOTE:
V+ = ~+16VDC
V- = ~-16VDC
LEFT = A CHANNEL
RIGHT = B CHANNEL

NOTE:
LAST R = R140
LAST C = C74
LAST D = D57
LAST Q = Q34
LAST U = U10
LAST J = J109

AP-800

ASSEMBLY M1088-5.40
PCB MECH M1088-5.40



AP-800
M1088
VER 5.40
SER#

BLANK SIZE=16.375"X9.000"

M1088.PCB_DATABASE_HISTORY

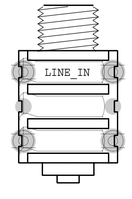
MODEL(S):- AP-800-VX800

#	DATE	VER#	DESCRIPTION OF CHANGE
1	APR/25/95	1.00	R44 L/R 470R TO 442R 1%. D13, D16 L/R, HAVE 1N4148 IN SERIES
2	.	.	.
3	MAY/30/95	1.10	PC#4806 R130 L/R, R126 L/R 47R MINI TO 75R MINI
4	.	.	.
5	JUL/07/95	2.00	PC#4848 R46 L/R, R50 L/R 158R TO 475R. NEW RESISTORS R137,138,139,140
6	.	.	475R TO FEED CURRENT LIMIT. ADD DIODE IN SERIES WITH D11 L/R, D16 L/R
7	.	.	C29 L/R, C30 L/R 47N TO 10N
8	.	.	.
9	JUL/20/95	2.10	SOME PARTS MOVED FOR CLEARANCE FOR AUTO INSERTION MACHINES.
10	OCT/31/95	2.20	ADD EYELETS FOR SPKON JACKS
11	AUG/14/96	2.30	PC#5189 C65,C66,C69,C70 27P TO 220P
12	.	.	PC#4787 BREAKAWAYS MOVED
13	.	.	PC#5032 SLDMSK ALTERED AT S3
14	DEC/19/96	.	ROUTING ALTERED AT Q7L/R
15	APR/25/97	3.00	PC#5360 EYELETS ADDED FOR PHONE JKS
16	MAY/12/97	4.00	PC#5393 MODIFIED FOR NEW HEATSINK
17	APR/21/98	4.01	PC#5573 C18R/C18L 22UP->I80P
18	AUG/20/98	4.10	PC#5762 ADD EYELETS FOR OUTPUT TRANSISTORS
19	JAN/26/99	5.00	.
20	APR/21/99	.	PC#5890 R119,R120 100K->10K
21	OCT/14/99		PC#6009 DELETE ONE SPEAKON
22	JAN/17/00		C18L/R AXIAL->RADIAL
23	JUL/12/00	5.10	ZIPPERS FOR OUTPUTS MOVED TO ELIMINATE SHORTS
24	SEP/18/00	5.20	PC#6206 1 EYLET FOR SPKON DELETED REPLACED BY 0.052" HOLE
25	FEB/13/01	5.30	PC#6339 REPLACE BOTTOM SHEAR WITH ROUTING
26	MAR/07/01	5.40	PC#6352 R28L/R 2K->1K 1%

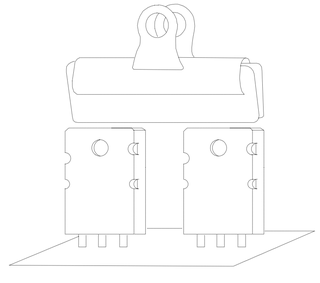
PRODUCTION NOTES

1 NOTE--R44R,R44L AND R41R,R41L ARE 1/2 WATT!!

2 MIDDLE LEGS OF PHONE JACKS MUST BE BENT OVER BEFORE WAVE SOLDER

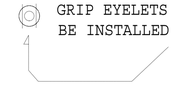


3 ADD SPRING PAPER CLIP ON ALL 8 PAIRS OF OUTPUT TRANSISTORS WHEN WAVE SOLDERING

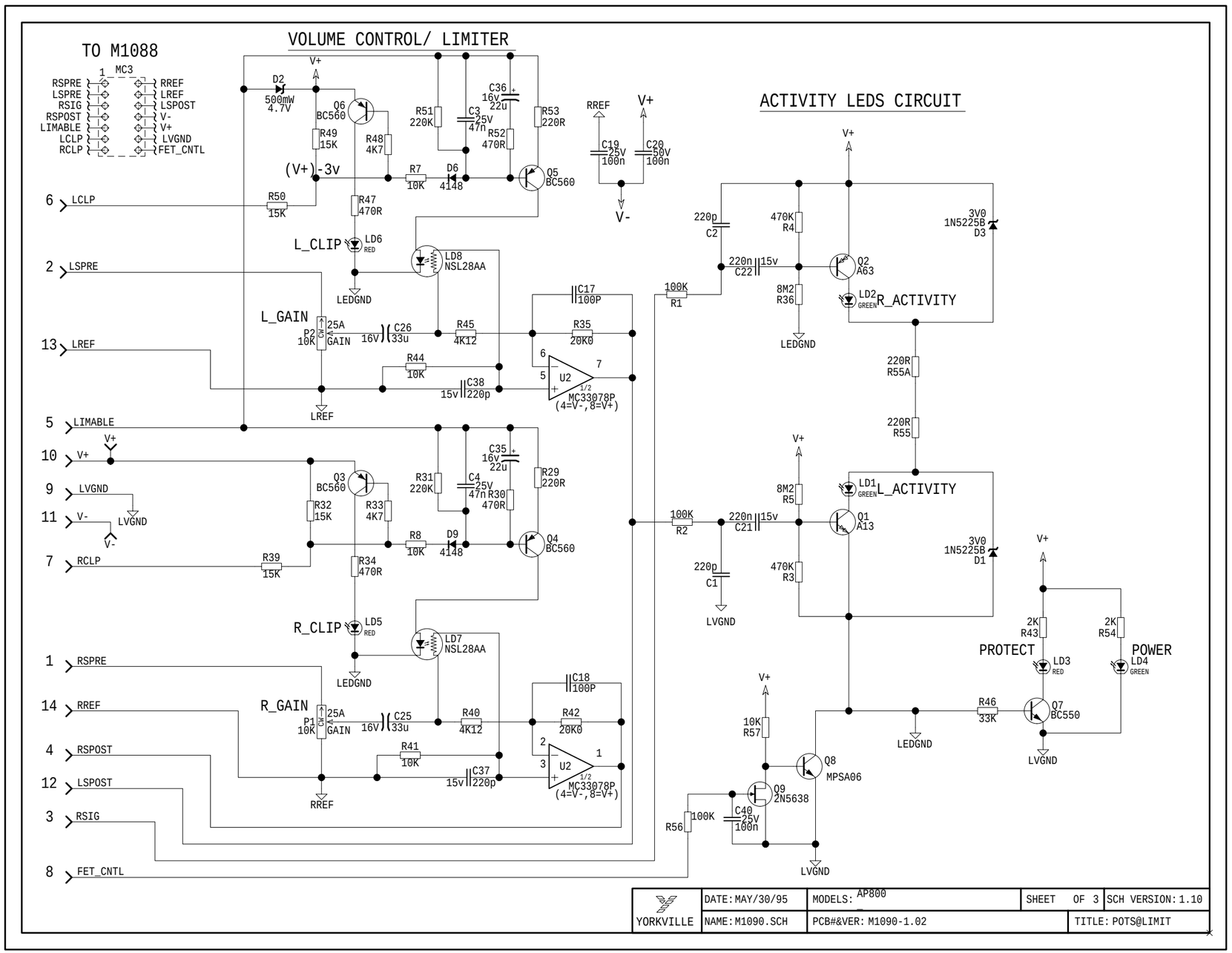


4

5 GRIP EYELETS FOR OUTPUT TRANSISTORS MUST BE INSTALLED WITH THE SLOT IN THIS DIRECTION



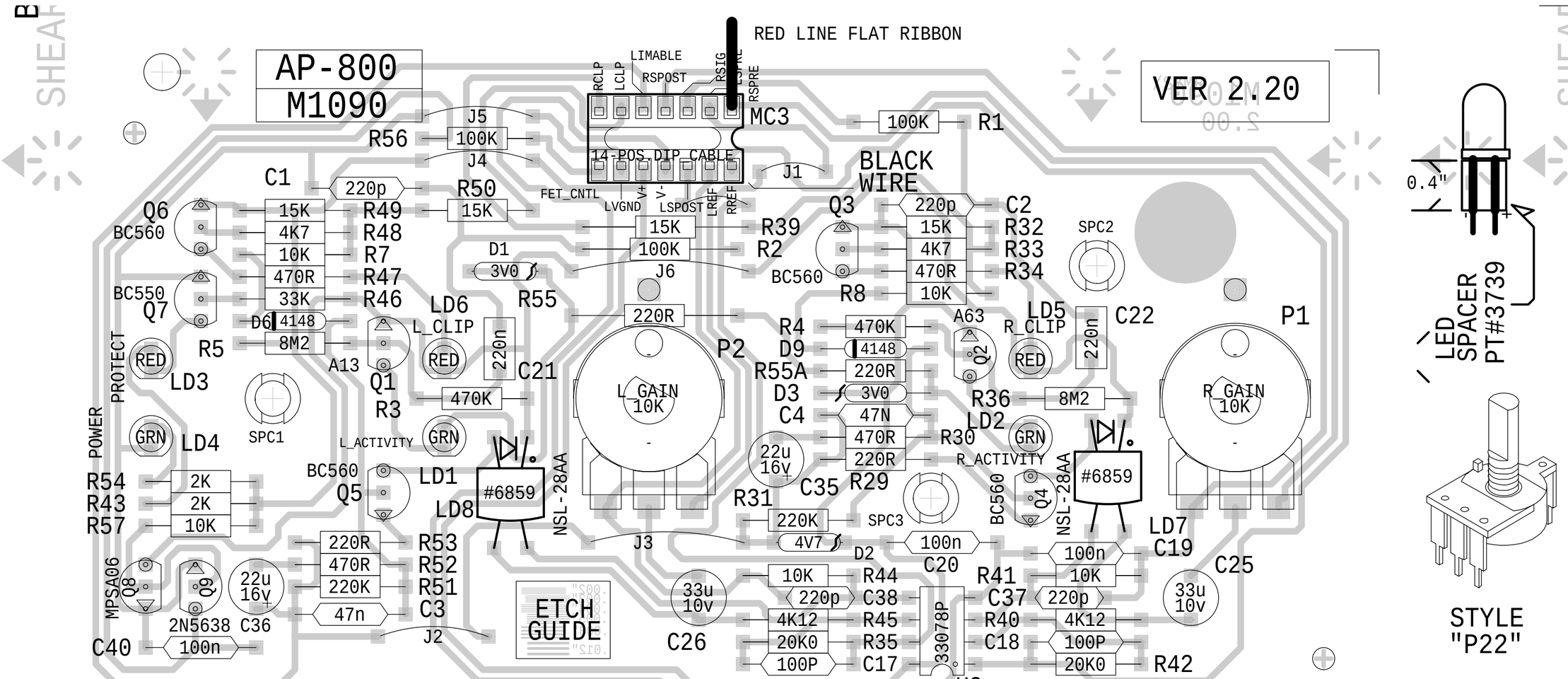
6 R28L R28R MUST BE 1K0 1% TOLERANCE NO SUBSTITUTION ALLOWED



M1090.SCH_DATABASE_HISTORY

MODEL(S):- AP800

#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAY/30/95	1.10	PC#4789_R57__15K-->10K
2			PC#4802__Q8__BC550-->MPSA06
3	AUG/14/96	1.20	PC#5189_C17,C18_27P-->100P
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N
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
24	D	V	N
25	D	V	N
26	D	V	N
27	D	V	N
28	D	V	N
29	D	V	N
30	D	V	N
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



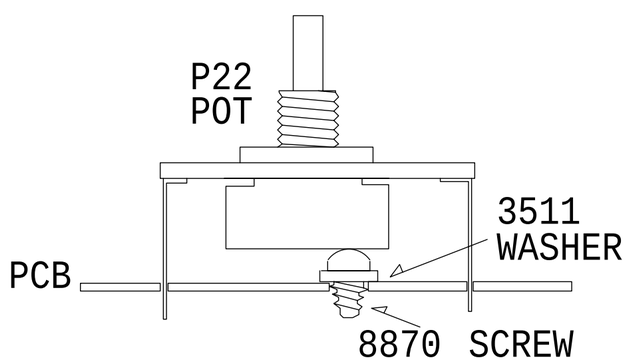
M1090.PCB_DATABASE_HISTORY

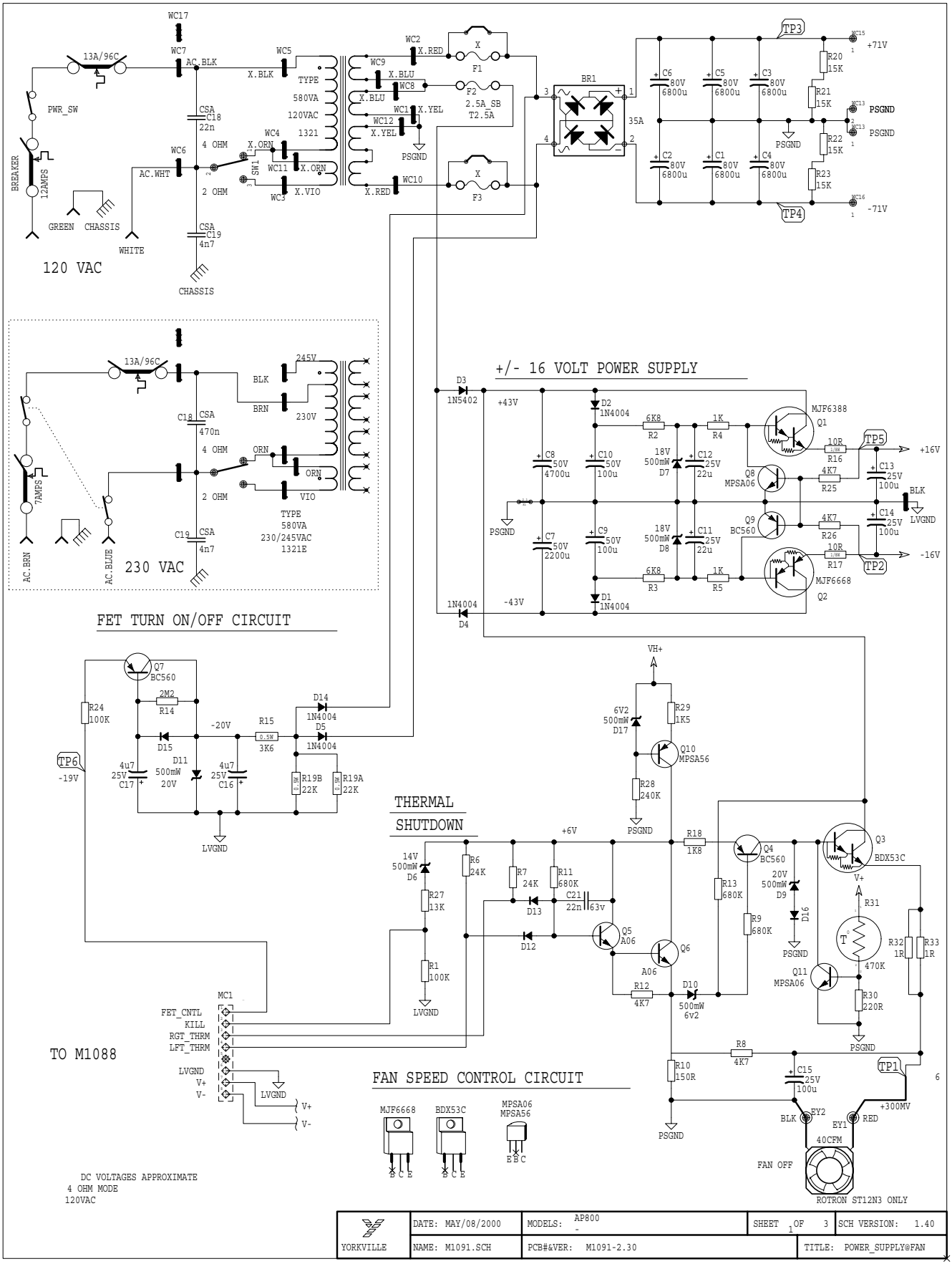
MODEL(S):- AP-800

#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAY/23/95	1.02	PC#8789__R57__15K--.10K
2	.	.	PC#4802__Q8__BC550-->MPSA06
3	JUN/29/95	2.00	PC#4839__PCB_SPREAD_APART_IN_X
4	AUG/14/96	2.10	PC#5189_C17-C18_27P-->100P
5	DEC/08/98	2.20	PC#_____ADD_SUPPORT_SCREWS_FOR_POTS
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
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

NOTES

1 P1 AND P2 FOR NORTH AMERICAN USE PART #4390
2 P1 AND P2 -M1090VC FOR VC800 USE PART #4394
3 ADD A STICKER OVER THE AP-800 LEGEND "M1090VC" TO AID IN IDENTIFYING VC800 BOARDS





YORKVILLE	DATE: MAY/08/2000	MODELS: AP800 -	SHEET 1 OF 3	SCH VERSION: 1.40
	NAME: M1091.SCH	PCB#&VER: M1091-2.30		TITLE: POWER_SUPPLY@FAN

M1091.SCH DATABASE HISTORY

MODEL(S):- AP-800

#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAY/30/95	1.10	PC#4803 Q1 FROM BDX53C TO MJF6368 Q2
2	.	.	. FROM BDX54C TO MJF6668
3	.	.	PC#4809 C19 FROM 22N TO 4N7
4	JUN/20/95	1.20	PC#4829 R15 FROM 3K3 1/4W TO 3K6 1/2W
5	DEC/12/95	1.30	PC#4975 ADDED R32 AND R33 2R 1/4W
6	MAY/08/00	1.40	PC#____R6,R7-240R-224R,R29-2K7-51K5
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11			
12			
13			
14			
15			
16		V	N
17			
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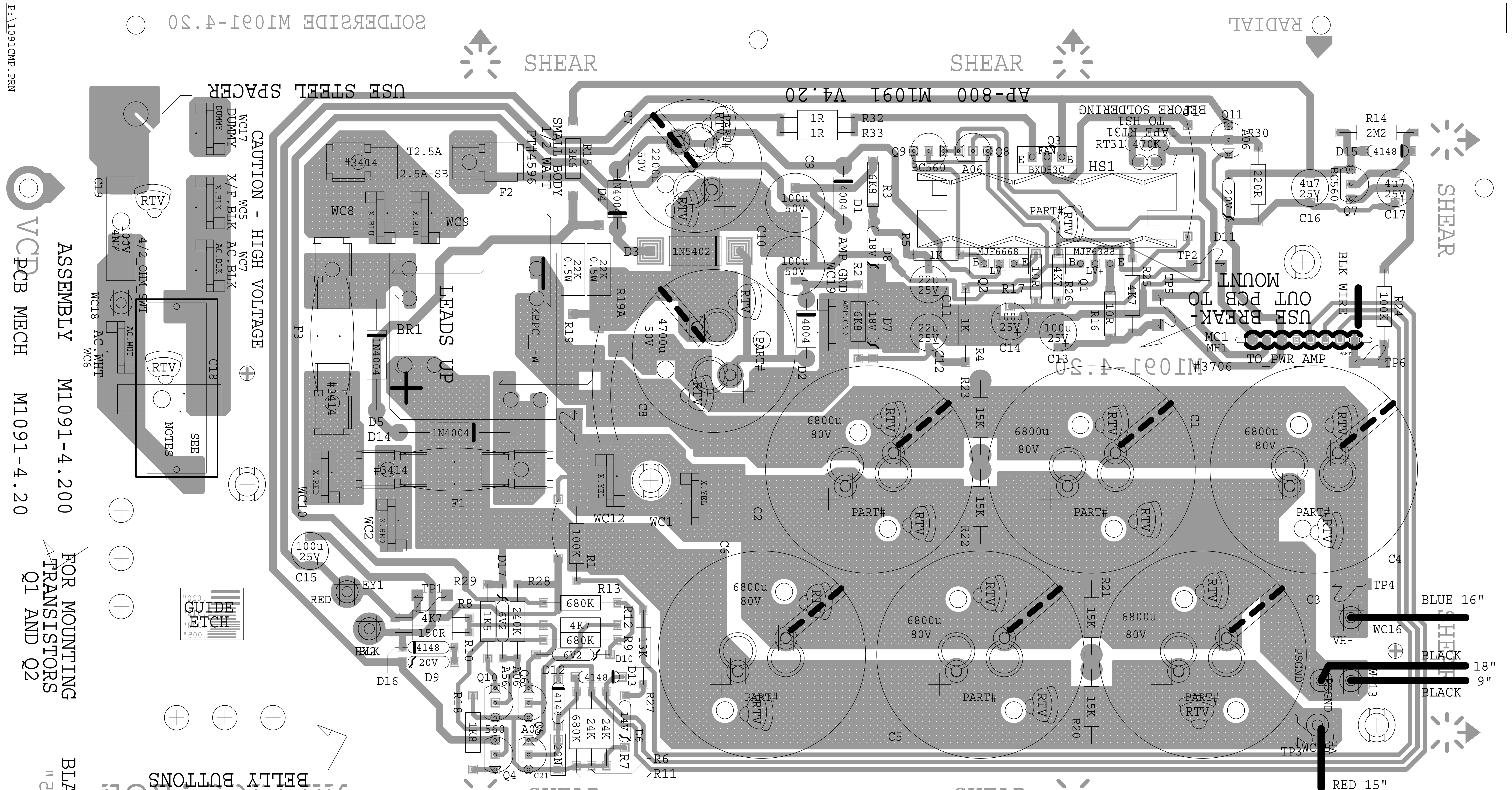


ASSEMBLY M1091-4.200

PCB MECH M1091-4.20

FOR MOUNTING TRANSISTORS Q1 AND Q2

BLANK SIZE=17.250"X10.125"

M1091.PCB_DATABASE_HISTORY

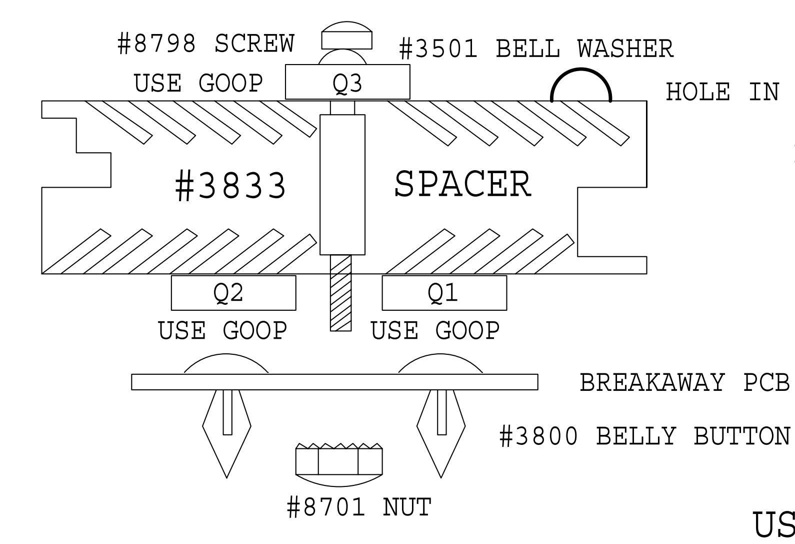
MODEL(S):- AP-800

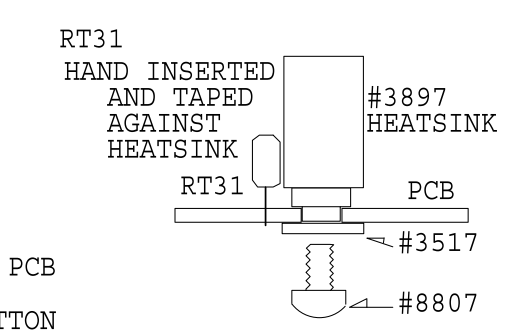
#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAY/29/95	2.00	PC#4803 ADDED RTV HOLES TO CSA CAPS. MOVED WC19
2	.	.	. AWAY FROM C11/C12. Q1 BDX53C->MJF6388 Q2
3	.	.	. BDX54C->MJF6668. MOVED R31 ADDED HOLE
4	.	.	. UNDER HS1 TO ALLOW RT31 TO SIT UNDER
5	.	.	HEATSINK
6	MAY/30/95	.	PC#4809 C19 22N->4N7
7	JUN/28/95	3.00	PC#4838 FROM PANEL OF 4 TO PANEL OF 3
8	.	.	PC#4829 R15 3K3 1/4W -> 3K6 1/2W
9	NOV/06/95	3.10	PC#4919 RETAPE FOR 470N AC CAP FOR CE
10	DEC/12/95	3.20	PC#4975 ADD TWO 1R 1/4W R32,R33
11	MAY/96	.	PC#5126 REMOVE #8607 FROM TR31 AND INSTALL FLAT
12	OCT/27/99	4.00	PC#5758 EYELETS FOR CAPS PC#5773_
13	.	.	ADD PAD FOR RT31 PC#6105 NEW
14	.	.	JUMPERS FOR BRIDGE RECTIFIER
15	JAN/17/00	4.10	PC# R6,7 240K->24K R29 2K7->2K2
16	MAY/08/00	4.20	R29 2K2->1K5
17	D	V	N
18	D	V	N
19	D	V	N
20	D	V	N

PRODUCTION NOTES

1 C18 FOR NORTH AMERICA USE 22N PT#6435
C18 FOR CE USE 680N PT#5266

2

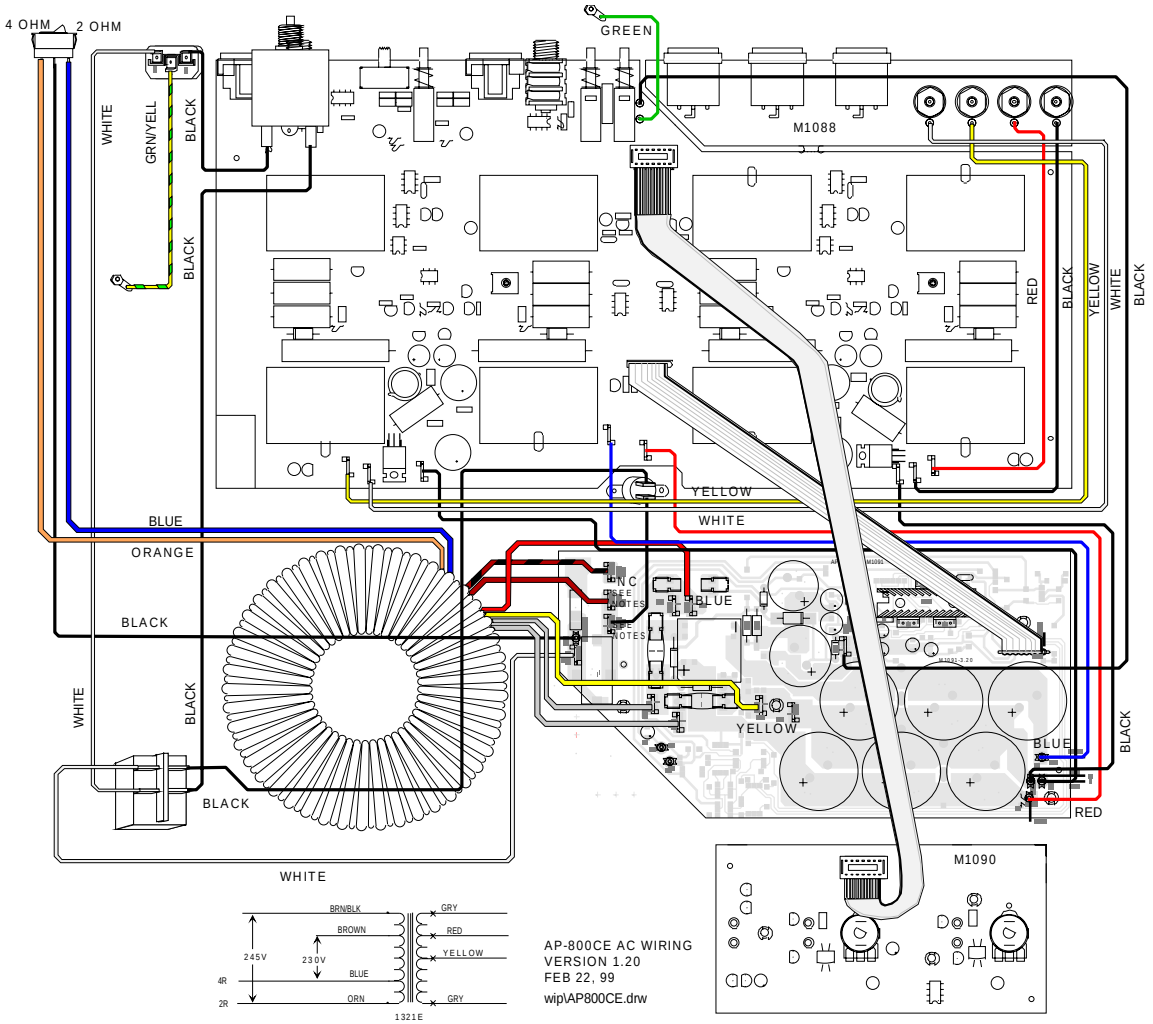




USE LOCTITE ON THE SCREWS USED ON THE HEATSINK

3

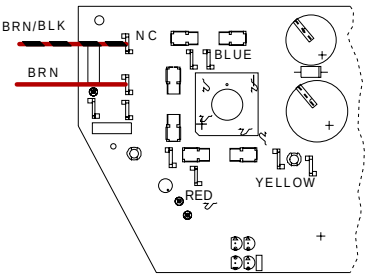
P:\1091CMP.PRN



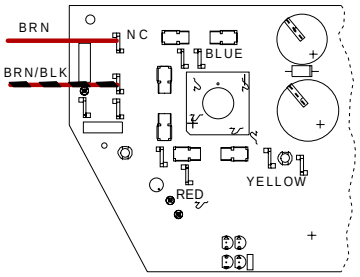
AP-800CE AC WIRING
VERSION 1.20
FEB 22, 99
wip\AP800CE.drw

NOTES

FOR CE
230VAC OPERATION
CONNECT AS FOLLOWS
BRN/BLK XFMR TO NC
BROWN XFMR AS SHOWN



FOR E4
245VAC OPERATION
CONNECT AS FOLLOWS
BROWN XFMR TO NC
BRN/BLK XFMR AS SHOWN



CE -STICKER ON CHASSIS ON VC800CE
CE-SER# CE STICKER
E4-SER# CE STICKER