



SERVICE MANUAL

MODEL TYPE: YS1064

TRAYNOR YCS50H

WEB ACCESS: <http://www.yorkville.com>

WORLD HEADQUARTERS CANADA

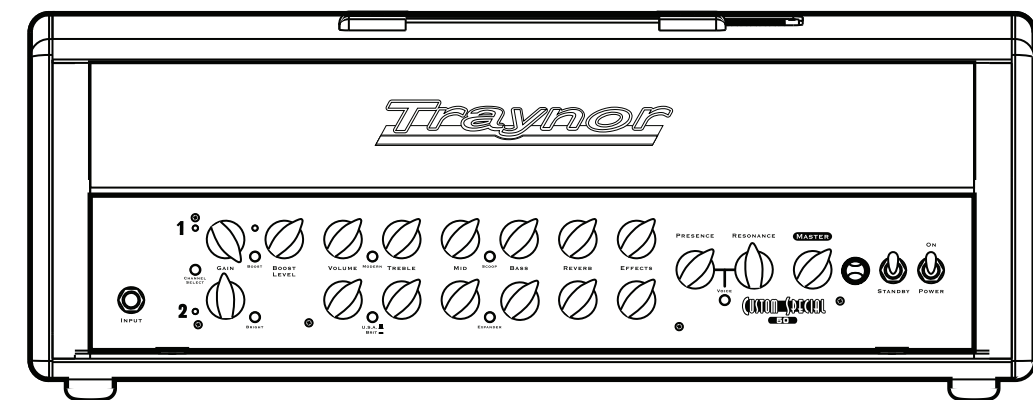
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Printed in Canada

IMPORTANT SAFETY INSTRUCTIONS



This lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Ce symbole d'éclair avec tête de flèche dans un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'un « voltage dangereux » non-isolé à proximité de l'enceinte du produit qui pourrait être d'ampleur suffisante pour présenter un risque de choc électrique.



CAUTION AVIS

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

**RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR**



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'instructions importantes dans la littérature accompagnant l'appareil en ce qui concerne l'opération et la maintenance de cet appareil.

FOLLOW ALL INSTRUCTIONS

**Instructions pertaining to a risk of fire,
electric shock, or injury to a person**

**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.**

SUIVEZ TOUTES LES INSTRUCTIONS

**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 and heed all warnings.

Clean only with dry cloth.

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

Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. *Do not use this apparatus near water!*

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. An apparatus with CLASS I construction shall be connected to a Mains socket outlet with a protective earthing ground. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

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. Only use attachments/accessories specified by the manufacturer

Note: Prolonged use of headphones at a high volume may cause health damage on your ears.

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.

Ensure that proper ventilation is provided around the appliance. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

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

Power Cord

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. The AC supply cord should be routed so that it is unlikely that it will be damaged. Protect the power cord from being walked on or pinched particularly at plugs. If the AC supply cord is damaged DO NOT OPERATE THE UNIT. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle. The mains plug of the power supply cord shall remain readily operable.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Service

The unit should be serviced only by qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Veillez Lire le Manuel: Il contient des informations qui devraient être comprises avant l'opération de votre appareil. Conservez. Gardez S.V.P. ces instructions pour consultations ultérieures et observez tous les avertissements.

Nettoyez seulement avec le tissu sec.

Emballage: Conservez la boîte au cas où l'appareil devait être retourner pour réparation.

Avertissement: Pour réduire le risque de feu ou la décharge électrique, n'exposez pas cet appareil à la pluie ou à l'humidité. *N'utilisez pas cet appareil près de l'eau!*

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 être prises afin d'éviter que le système de mise à la terre de l'appareil ne soit désengagé. Un appareil construit selon les normes de CLASS I devrait être raccordé à une prise murale d'alimentation avec connexion intacte de mise à la masse. Lorsqu'une prise de branchement ou un coupleur d'appareils est utilisée comme dispositif de débranchement, ce dispositif de débranchement devra demeurer pleinement fonctionnel avec raccordement à la masse.

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. Utilisez seulement les attachments/accessoires indiqués par le fabricant

Note: L'utilisation prolongée des écouteurs à un volume élevé peut avoir des conséquences néfastes sur la santé sur vos oreilles. .

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

L'appareil 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.

Assurez que l'appareil est fourni de la propre ventilation. Ne procédez pas à l'installation près de source de chaleur tels que radiateurs, registre de chaleur, fours ou autres appareils (incluant les amplificateurs) qui produisent de la chaleur.

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

Cordon d'Alimentation

Ne pas enlever le dispositif de sécurité sur la prise polarisée ou la prise avec tige de mise à la masse du cordon d'alimentation. Une prise polarisée dispose de deux lames dont une plus large que l'autre. Une prise avec tige de mise à la masse dispose de deux lames en plus d'une troisième tige qui connecte à la masse. La lame plus large ou la tige de mise à la masse est prévu pour votre sécurité. La prise murale est désuète si elle n'est pas conçue pour accepter ce type de prise avec dispositif de sécurité. Dans ce cas, contactez un électricien pour faire remplacer la prise murale. Évitez d'endommager le cordon d'alimentation. Protégez le cordon d'alimentation. Assurez-vous qu'on ne marche pas dessus et qu'on ne le pince pas en particulier aux prises. **N'UTILISEZ PAS L'APPAREIL** si le cordon d'alimentation est endommagé. Pour débrancher complètement cet appareil de l'alimentation CA principale, déconnectez le cordon d'alimentation de la prise d'alimentation murale. Le cordon d'alimentation du bloc d'alimentation de l'appareil doit demeurer pleinement fonctionnel.

Débranchez cet appareil durant les orages ou si inutilisé pendant de longues périodes.

Service

Consultez un technicien qualifié pour l'entretien de votre appareil. L'entretien est nécessaire quand l'appareil a été endommagé de quelque façon que se soit. Par exemple si le cordon d'alimentation ou la prise du cordon sont endommagés, si il y a eu du liquide qui a été renversé à l'intérieur ou des objets sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, si il ne fonctionne pas normalement, ou a été échappé.

YCS50H Parts List 5/4/2010

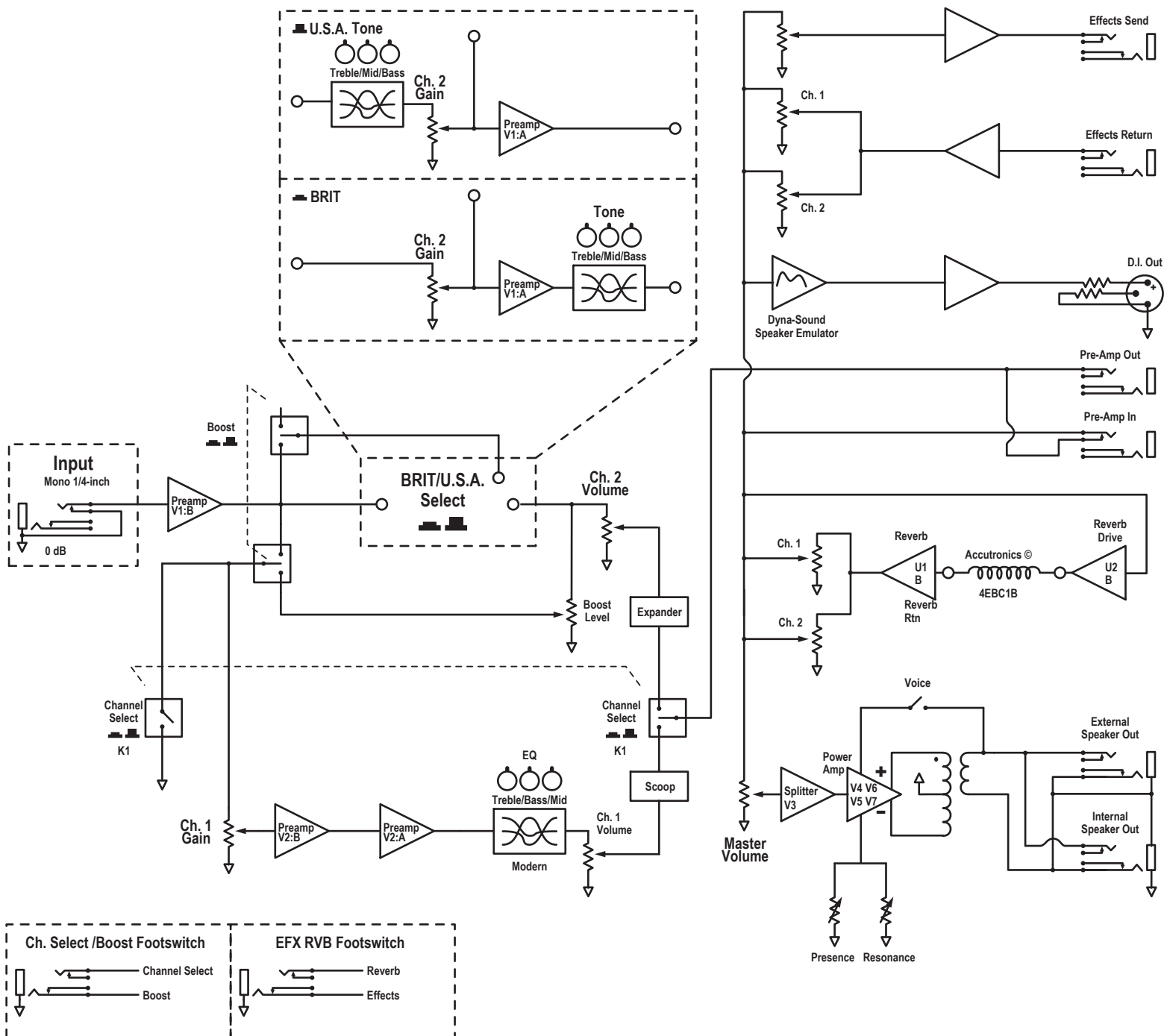
YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
5906	RED 3MM LED 1V9 20MA.4SPCER T&R	1	6541	RCA SNGL PCB MT HORZ K901	4	4844	1/4W 1M 5% T&R RES	6
5907	YEL 3MM LED 1V9 20MA.4SPCER T&R	1	3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP	1	4845	1/4W 2M2 5% T&R RES	4
5908	GRN 3MM LED 1V9 20MA.4SPCER T&R	1	3451	EYELET SMALL 0.089 OD PLATED	19	6615	13.0" 8C-22AWG RIBBON CABLE .156"	1
6397	JEWELLED PILOT LAMP AMBER REG V1	1	2472	T3.15A GDA BUSSMANN 5X20MM FUSE	1	6616	6.0" 9C-22AWG RIBBON CABLE .156"	1
6398	RED 5MM LED 1V5 20MA HIGH EFF	1	TFS-2B	TRAYNOR DUAL FOOTSWCH 10' CORD-BULK	1	3696	RELAY 1C 02AMP DC24 006MA PC-S	2
6399	YEL 5MM LED 1V5 20MA HIGH EFF	1	8451	10" STRAP HANDLE.BLACK METAL ENDCAP	1	3700	RELAY 2C 01AMP DC24 015MA PC-S	1
6438	1N4007 1000V 1A0 DIODE T&R	5	3692	HEATSINK THERMALLOY 6079-PB	2	3537	ACC# 4EB3C1B LONG REVERB	1
6825	1N4148 75V 0A45 DIODE T&R	18	8889	RUBBER GROMMET #2183-034-BLK	4	8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	2
6888	HER508 1000V 3A0 DIODE ULTRAFAS	5	3438	IEC PWR SOC W/.205TAB & FUSE 10A250V	1	8871	4-40 X 5/8 PAN PH MS JS500	6
6437	1N5237B 8V2 0W5 ZENER 5% T&R	1	3803	NYLON SECUR-A-TACH MINI PLASTIC TIE	1	8808	4-40 X 3/4 FLAT PHIL MS B.O. & WAX	11
6450	1N5242B 12V0 0W5 ZENER 5% T&R	2	3810	4" NYLON CABLE TIE	8	8799	#6 X 1/4 PAN PH TYPE B JS500	2
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	1	3538	24 PIN BREAKAWAY LOCK .156	1.152	8832	6-32 X 1/4 PAN PH TAPTITE JS500	17
6871	MC7915CT TO220 N 15V0 REG V2	1	8430	KNOB CHICKEN-BEAK	18	8801	6-32 X 3/8 PAN PH TAPTITE JS500	2
6872	MC7815CT TO220 P 15V0 REG V1	1	8438	YCS SERIES B-BEAK KNOB 180 DEG	1	8829	6-32 X 3/8 FLAT PH TAPTITE BO#C HEA	19
5101	BC550C TO92 NPN TRAN T&R TB	5	8633	KNOB ROUND PUSHBUTTON 1/4" BLACK	8	8755	#6 X 5/8 PAN QUAD TY A JS500 BLACK	14
5102	BC560C TO92 PNP TRAN T&R TB	4	3428	8' 3/18 SUT AC LINE CORD REMOVABLE	1	8828	6-32 X 3/4 PAN PH TAPTITE JS500	4
5103	MPSA06 TO92 NPN TRAN T&R TA	4	8268	TRAYNOR LOGO PLASTIC NICKEL PLATING	1	8809	10-32 X 1/4 PAN PH TAPTITE JS500	2
5104	MPSA56 TO92 PNP TRAN T&R TA	1	YCSP0P	YCS POINT OF PURCHASE CARD	1	8753	#10 X 1/2 PAN QUAD TY A JS500 BLACK	16
5108	2N5401 TO92 PNP TRAN T&R TA	1	8800	6-32 KEPS NUT ZINC	1	8756	#10 X 3/4 PAN PH TYPE A BLACK OXIDE	4
5119	2N5638 TO92 NCH JFET T&R TC	4	9931	6-32 NYLON INSERT LOCK NUT	4	8727	#10 X 1" PAN PH TYPE A JS500 BLACK	4
5122	J109 TO92 NCH JFET T&R TC	1	8604	10-32 T NUT	2	8843	10-32 X 1 1/8 FLAT QUAD MS JS500	2
6882	TL072CP IC FET DUAL OP AMP	7	8683	1/4-20 NYLON INSERT NUT ZINC	1	8926	5/16-18X3 CARRIAGE BOLT ZINC	2
5197	220P 100V 2%CAP T&R RAD CER.2NPO	8	8890	1/4-20 CAGE NUT C79-88142027	8	8770	1/4-20 X 1 5/16 TRUSS PH MS JS500	8
5199	100P 100V 2%CAP T&R RAD CER.2NPO	2	9977	5/16-18 NYLON INSERT LOK NUT ZN CLR	1	3752	SNAP IN 1/4 SPACER RICHO	2
5277	220P 200V 5%CAP T&R RAD CER.2NPO	1	8797	5/16-18 KEPS NUT JS500	2	3833	8 X 8 (250 OD. 171 ID)JNY SPACER	4
5408	47P 100V 10%CAP T&R BEAD NPO	1	4599	22AWG SOLID SC WIR T&R JMP	77	8657	6-32 X 3/8" HEX SPACER ALUMINUM	6
5194	470P 1000V 10%CAP T&R RAD CER.2Y5P	2	4703	2.0W 2R 5% T&R RES	2	2355	NYLON STANDOFF NUT #4 375MIL	6
5201	470P 100V 5%CAP T&R RAD CER.2NPO	1	4612	1/2W 18R 5% T&R RES	1	2335	NYLON STANDOFF NUT #4 500MIL	11
5206	1N 400V 5%CAP T&R RAD .2FLM	9	4709	5.0W 22R 5% BLK RES	1	3865	1/2 PLASTIC HEX SPACER #6	11
5208	2N2 400V 5%CAP T&R RAD .2FLM	6	4816	1/4W 33R 5% T&R RES	1	8482	3/8 1D FLAT WASHER	1
5275	3N3 100V 5%CAP T&R RAD .2FLM	3	4817	1/4W 47R 5% T&R RES	4	8488	3/8 INT TOOTH LOCKWASHE ZINC	1
5422	1N 50V 10%CAP T&R BEAD NPO	4	2019	1/8W 100R0 1%FLAME PROOF T&R RES	2	8818	3/4 OD X 3/8 ID X .080 THICK WASHER	4
5816	680P 100V 5%CAP T&R RAD CER.2NPO	1	4735	1.0W 100R 5% T&R RES	2	8817	#10 FLAT WASHER FOR 3/16" BOLT	12
5204	10N 100V 10%CAP T&R RAD .2FLM	5	4852	1/4W 100R 5% T&R RES	1	3440	4PDT MINI VERT ALT SWITCH	1
5209	4N7 250V 5%CAP T&R RAD .2FLM	2	4857	1/4W 220R 5% T&R RES	2	3424	DPDT SLID SW PCMT H GOLD CONTACTS	1
5222	33N 100V 10%CAP T&R RAD .2FLM	1	4821	1/4W 470R 5% T&R RES	2	3522	DPDT MINI PC VERT SNP ALT	7
5223	39N 100V 10%CAP T&R RAD .2FLM	2	4871	1/4W 560R 5% T&R RES	1	3554	DPDT TOGGLE SW QUICK 250° 4 TERM	1
5224	47N 100V 10%CAP T&R RAD .2FLM	2	5019	1/4W 620R 5%MINI T&R RES	6	6544	DPDT TOGGLE SW QUICK 250° 6 TERM	1
5272	6N8 100V 5%CAP T&R RAD .2FLM	2	4822	1/4W 820R 5% T&R RES	3	3698	SPST ROKR SW QUIK 180° AC PWR BL/BL	1
5834	10N 250V 20%CAP BLK RAD POLY FLM	2	4823	1/4W 1K 5% T&R RES	5	3682	250 MALE PCB TAB REEL	28
5841	47N 250V 10%CAP RAD POLYFILM BULK	1	4913	1.0W 1K 5% T&R RES	1	3731	SPRING RETAINER FOR OUTPUT TUBE	2
6451	4N7 250V 20%CAP BLK Y 10MM AC	1	4585	1/4W 1K2 5%MINI T&R RES	1	3732	9 PIN PC MOUNT TUBE SOCKET BE	3
5212	100N 63V 5%CAP T&R RAD .2FLM	18	4824	1/4W 1K5 5% T&R RES	1	3984	8 PIN PC MOUNT TUBE SOCKET BE	2
5226	68N 100V 5%CAP T&R RAD .2FLM	1	5005	2.0W 1K8 5% T&R RES	2	12AX7	12AX7 DUAL TRIODE PREAMP TUBE	3
5229	150N 63V 10%CAP T&R RAD .2FLM	2	4631	1/2W 2K 5% T&R RES	1	EL34EH	EL34 PENTODE OUTPUT TUBE	2
5233	330N 63V 5%CAP T&R RAD .2FLM	5	4705	2.0W 2K2 5% BLK RES	2	1403	YCS100H TOROID COVER VR 122 X 65	2
5865	100N 250V 10%CAP BLK RAD POLY FLM	2	4847	1/4W 2K2 5% T&R RES	2	CH1335M	YCS50/50H OUTPUT XFMR	1
5882	220N 250VDC 10%CAP BLK RAD PLY FLM	2	6104	1/4W 2K2 5%MINI T&R RES	3	CH1335U	100-240VAC 60-50HZ YCS50/50H T'RD	1
5254	1U 63V 20%CAP T&R 4X7MM .2EL	2	4714	1/4W 2K21 1% T&R RES	1	2337	4 CIR XH-HEADER 0.098IN	2
5257	2U2 63V 20%CAP T&R RAD .2EL	2	4826	1/4W 3K3 5% T&R RES	1	2327	6 CIR XH-HEADER 0.098IN	1
5266	680N 250V 20%CAP BLK X2 30MM AC	1	4850	1/4W 3K9 5% T&R RES	1	2343	6 CIR XH-HEADER RA 0.098IN	1
5282	10U 16V 20%CAP T&R 5X7MM .2NP	1	4681	1.0W 4K7 5% T&R RES	2	2328	8 CIR XH-HEADER 0.098IN	4
5629	10U 160V 20%CAP BLK 10X13MM EL	1	4827	1/4W 4K7 5% T&R RES	13	2358	9 CIR XH-HEADER 0.098IN	4
5631	22U 50V 20%CAP T&R 6X7MM .2EL	11	4863	1/4W 8K2 5% T&R RES	3	3043	PATCH 04 22AWG 08.0 XH FLAT	1
5958	22U 350V 20%CAP BLK 13X25 EL	6	4829	1/4W 10K 5% T&R RES	19	3044	PATCH 06 22AWG 07.0 XH FLAT	1
5959	10U 450V 20%CAP BLK EL	3	5031	1.0W 10K0 5% T&R RES	2	3042	PATCH 08 22AWG 13.0 XH FLAT	2
5961	33U 16V 20%CAP T&R RAD .2	9	6116	1/4W 10K0 1%MINI MF T&R RES	8	3061	PATCH 09 22AWG 10.0 XH FLAT	2
5267	100U 25V 20%CAP T&R RAD .2EL	2	4830	1/4W 15K 5% T&R RES	2			
5618	470U 25V 20%CAP BLK 10X15MM EL	1	4831	1/4W 18K 5% T&R RES	1			
5879	100U 16V 20%CAP T&R 8X7MM .2EL	1	4832	1/4W 22K 5% T&R RES	7			
6574	330U 350V 20%CAP BLK 25X50 EL	2	4902	1/4W 24K 5% T&R RES	3			
5635	1000U 35V 20%CAP BLK RADIAL ELECT	3	4840	1/4W 33K 5% T&R RES	5			
4417	10K 5B LIN 9MM HORIZONTAL P28	1	4868	1/4W 36K 5% T&R RES	1			
4423	20K 15AAUDIO 9MM P32	8	4634	1/2W 47K 5% T&R RES	2			
4424	100K 1B LIN 9MM P32	2	4834	1/4W 47K 5% T&R RES	11			
4425	500K 15AAUDIO 9MM P32	8	4835	1/4W 56K 5% T&R RES	1			
4520	10K TRIM POT	1	4848	1/4W 62K 5% T&R RES	1			
3976	SNAP ON 0.843" INSULATING BUSHING	3	4586	1/4W 82K 5%MINI T&R RES	1			
6563	5H CHOKE 100MA	1	4837	1/4W 82K 5% T&R RES	3			
8522	RUBBER BUMPER WITH WASHER -SMALL-	4	4772	1/4W 82K5 1% T&R RES	2			
8570	CORNER.2 LEGS NOTCED BLACK POWDER C	8	4838	1/4W 100K 5% T&R RES	8			
3467	CLIP 205X032 14-16AWG DISC/INSUL	2	6120	1/4W 100K 5%MINI T&R RES	7			
3478	CLIP 205/187X032 18-22AWG DISCO/INS	3	4776	1/4W 113K 1% T&R RES	2			
3489	CLIP 250X032 18-22AWG DISCO/INSL	4	4851	1/4W 120K 5% T&R RES	2			
3601	RING TERMINAL 16AWG WIRE & #8 SCREW	1	4976	1/4W 120K 5% MINI T&R RES	2			
3450	1/4" JCK PCB MT ALL-GOLD SKT	3	4790	2.0W 150K 5%10MM BODY T&R RES	2			
3498	1/4" JCK PCB MT HORZ	5	4839	1/4W 150K 5% T&R RES	1			
3921	1/4" JCK PCB MT VERT STER RT SWT	1	4841	1/4W 220K 5% T&R RES	13			
3888	12"RCA SINGLE CABLE 0/90" BLACK	1	6145	1/4W 249K 1%MINI T&R RES	5			
3890	36"RCA DUAL CABLE 0/90" RED/WHITE	1	4843	1/4W 470K 5% T&R RES	9			

Block Diagram for YCS50/50H/YCS90

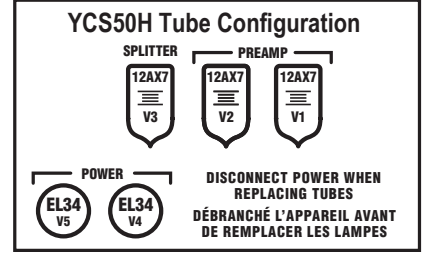
DESIGNED AND MANUFACTURED BY YORKVILLE SOUND

MODEL TYPE: YS1064

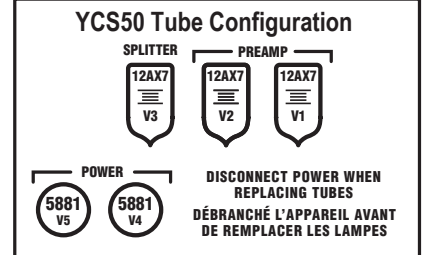
MODEL TYPE: YS1067



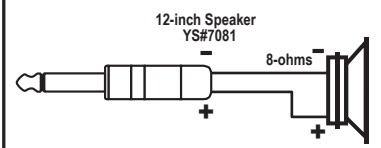
YCS50H



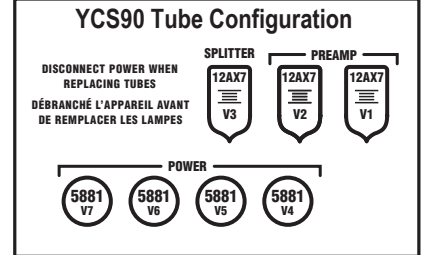
YCS50



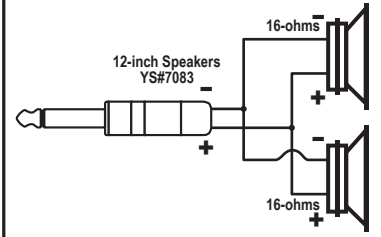
YCS50 Speaker Configuration

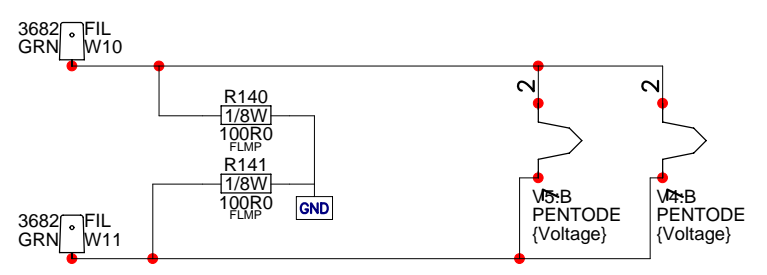
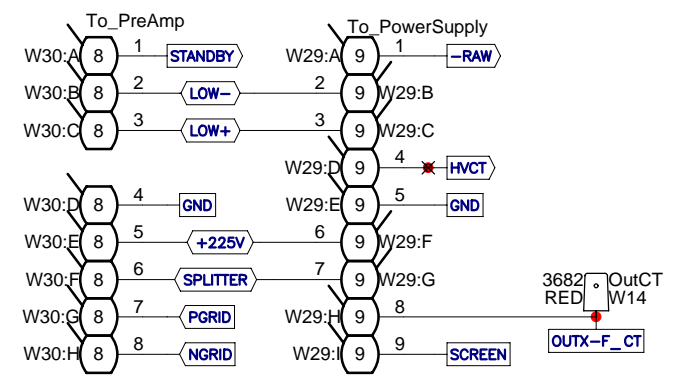
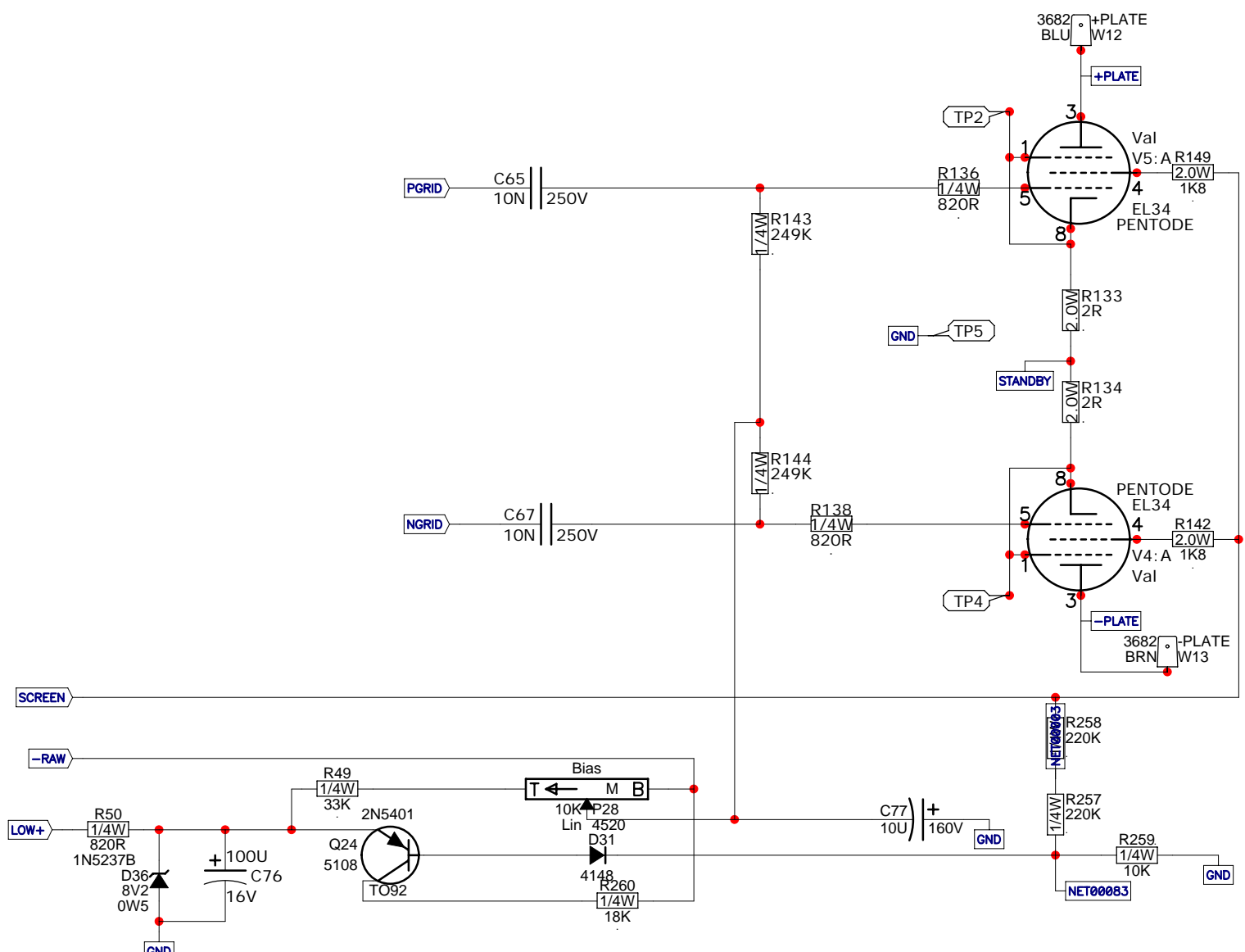


YCS90

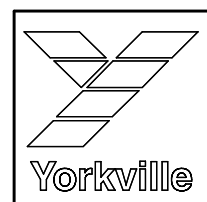


YCS90 Speaker Configuration





M1292.PCB_DATABASE_HISTORY			
MODEL(S):- YCS50 Output			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	19-JUN-2007	1.00	FIRST DESIGN
2	11-FEB-2008	1.01	REVISION PER PC7456
3	14-APR-2008	1.02	CHANGE VALUE OF R49 TO 33K PER PC7535
4	19-JAN-2010	2.00	PC7931: Add another clinch origin for upper boards
5	14-MAY-2010	V03	PC8102: Add clearance for lower half panel GG
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



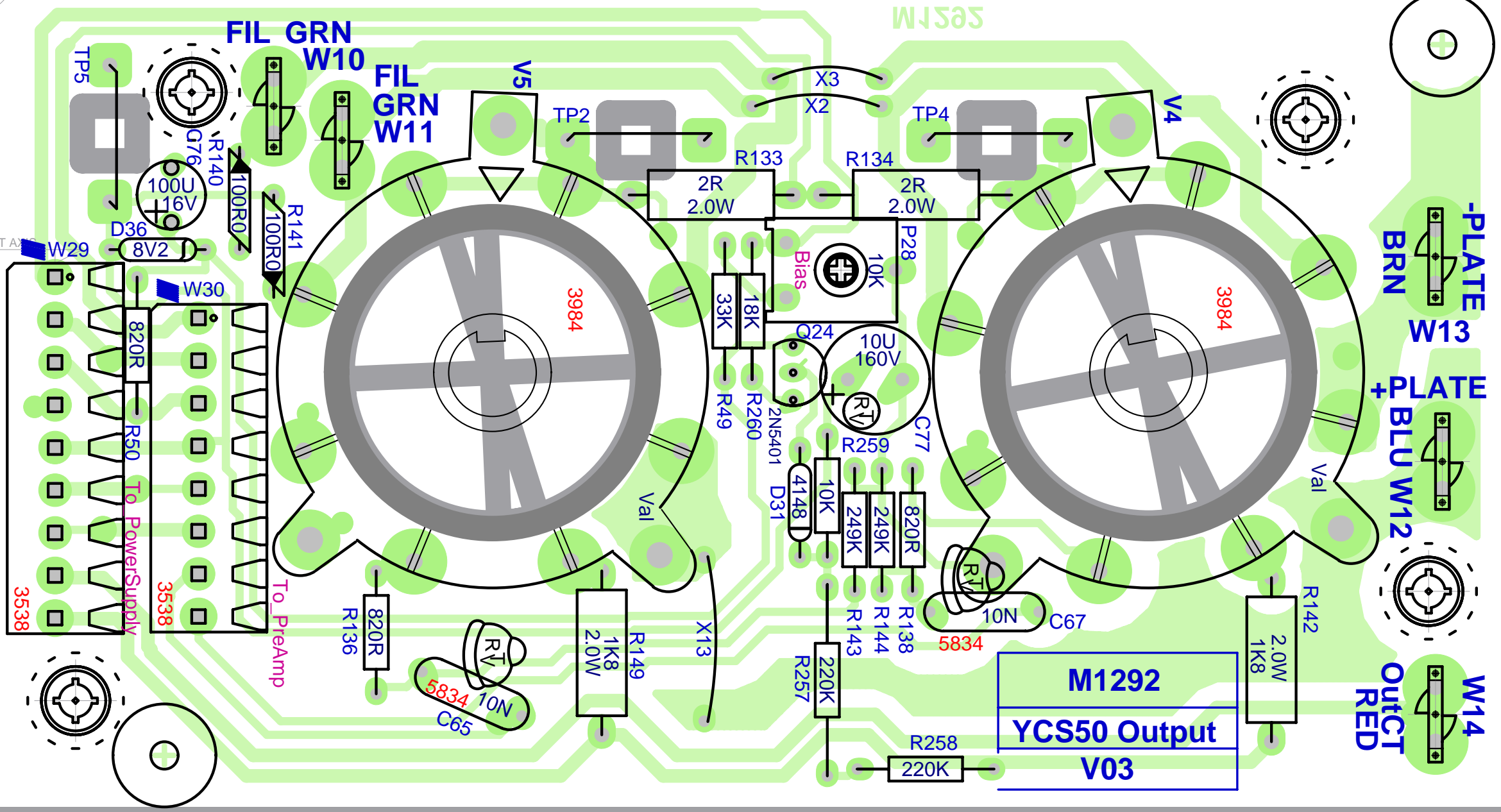
Product **YCS50 Output**

Power Amp	PCB# M1292	Sheet 1 of 1
Date: Fri May 14, 2010	Rev:V03	YsType:.
Filename: M1292V03sch.sch2002		

SCORE

BlankSize - 16000x12800

StepAndRepeat - X5@3.025Y2@6.4

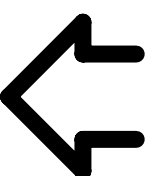


SCORE
CLINCH
ORIGIN

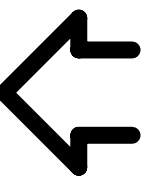
SCORE
INSERT
ORIGIN
LONG AXIS

SCORE

30V S



SEE LAYOUT DOCUMENTATION





SEE LAYOUT DIAGRAM



M1292 PRODUCTION NOTES

1. APPLY RTV TO C65 AND C67.
2. BREAK ALONG THE LINE SPECIFIED ON THE BOARD BEFORE CLINCHING SPARATELY THE TWO HALF BOARDS

M1292.PCB_DATABASE_HISTORY

MODEL(S):- YCS50 Output

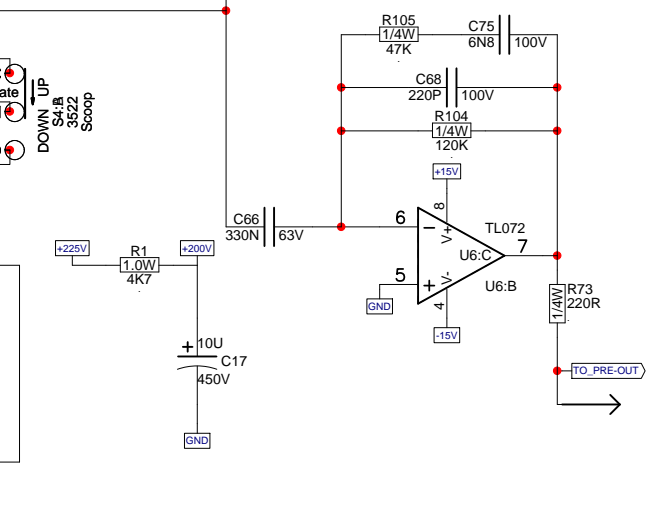
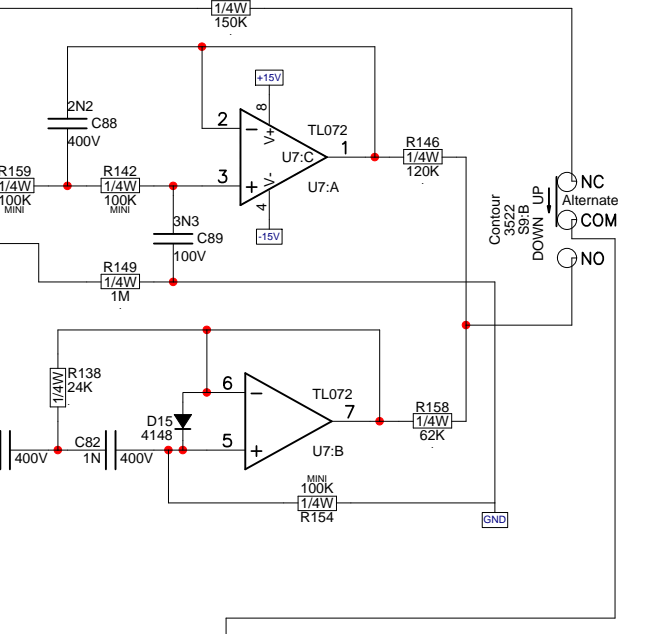
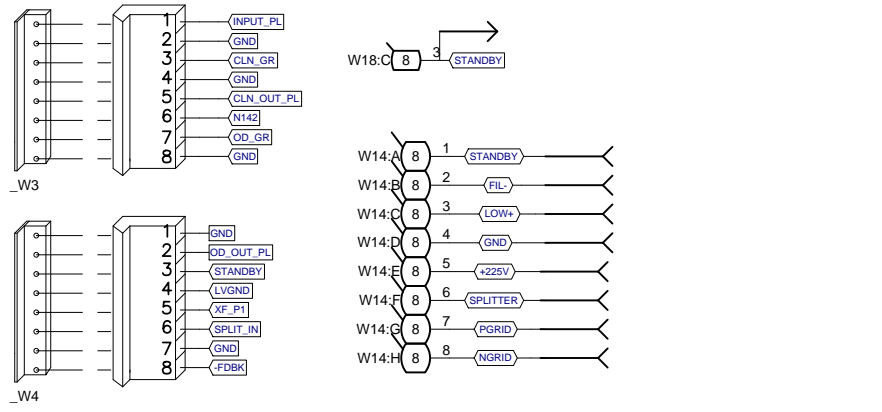
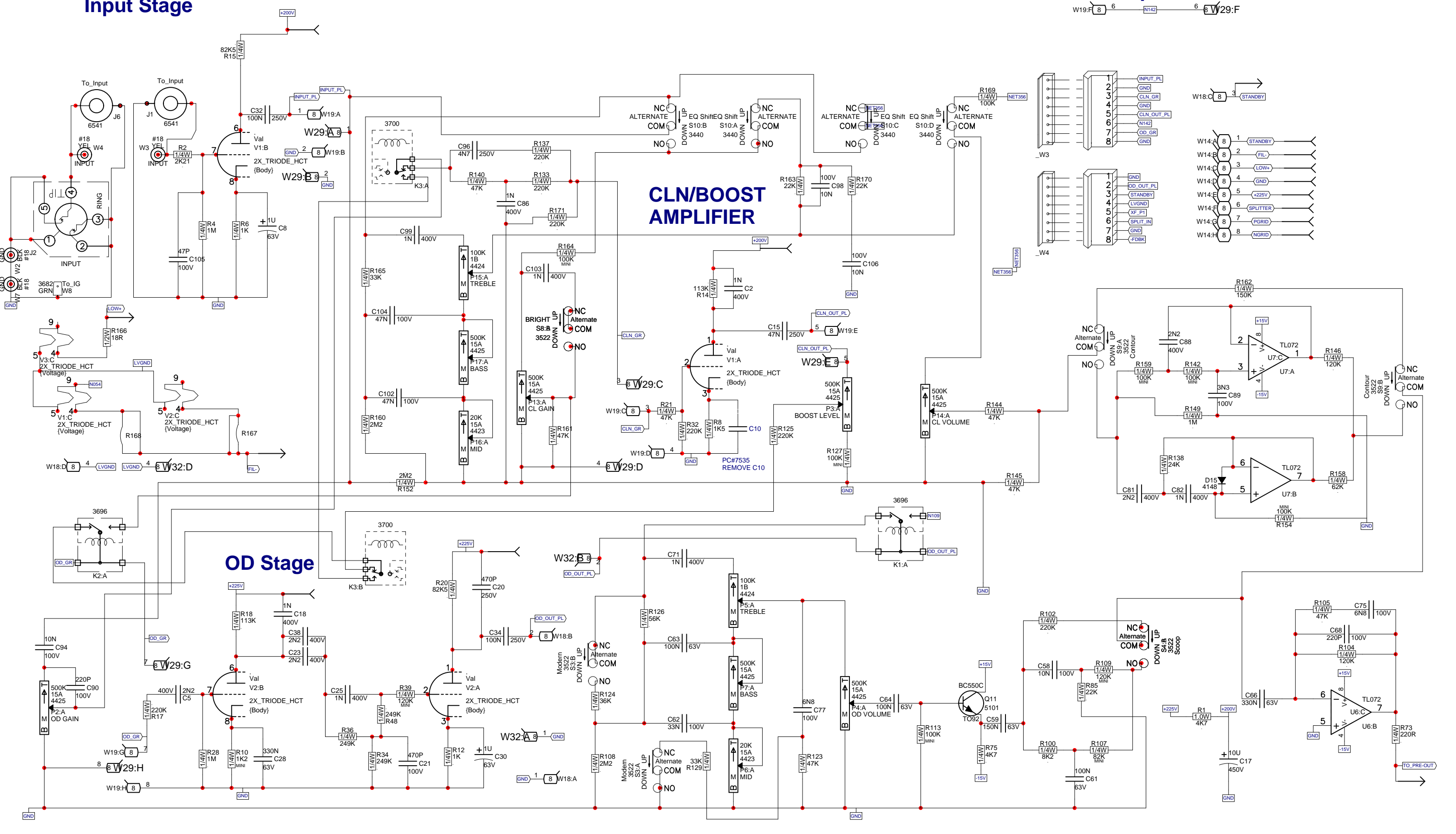
#	DATE	VER#	DESCRIPTION OF CHANGE
1	19-JUN-2007	1.00	FIRST DESIGN
2	11-FEB-2008	1.01	REVISION PER PC7456
3	14-APR-2008	1.02	CHANGE VALUE OF R49 TO 33K PER PC7535
4	19-JAN-2010	2.00	PC7931: Add another clinch origin for upper boards
5	14-MAY-2010	V03	PC8102: Add clearance for lower half panel GG
6	D	V	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

Input Stage

Preamp Headers

CLN/BOOST AMPLIFIER

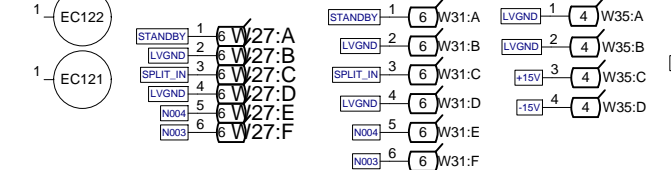
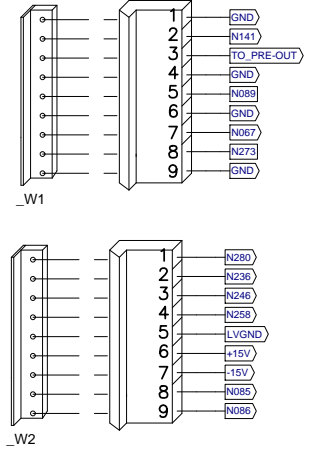
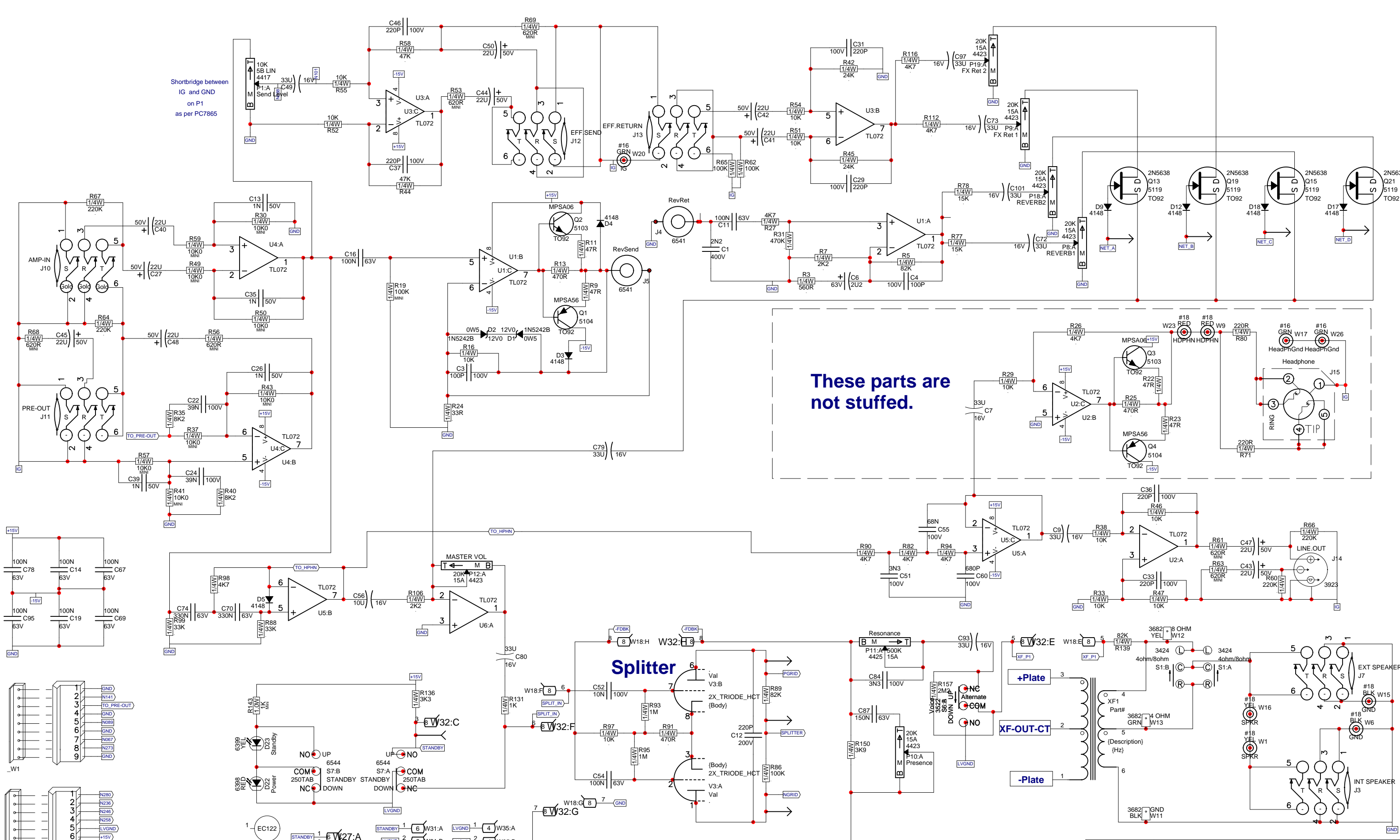
OD Stage



Shortbridge between IG and GND on P1 as per PC7865

These parts are not stuffed.

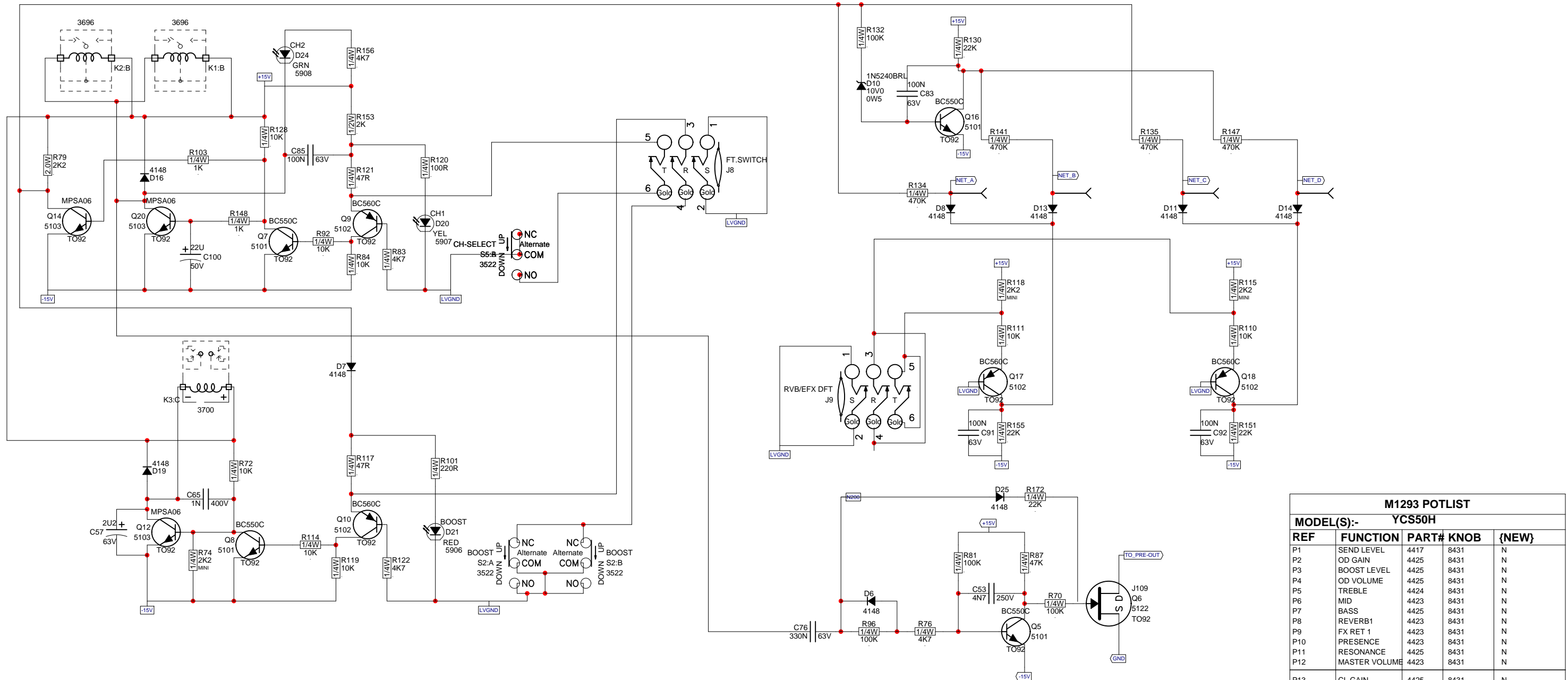
Splitter



Product YCS50H Preamp

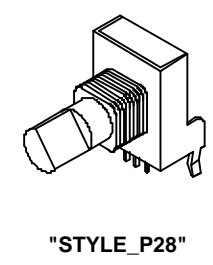
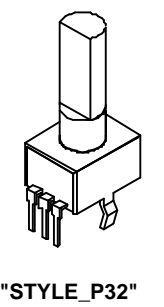
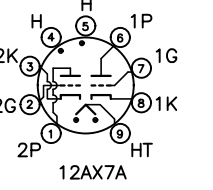
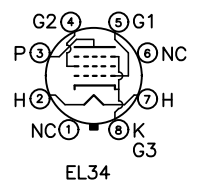
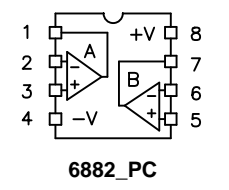
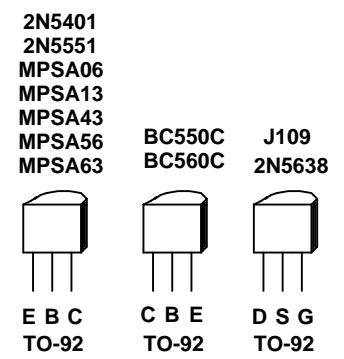
Effects/Master	PCB# M1293	Sheet 2 of 3
Date: Fri Mar 12, 2010	Rev:v4.00	YsType:
Filename: M1293V400.sch2002		

Yorkville



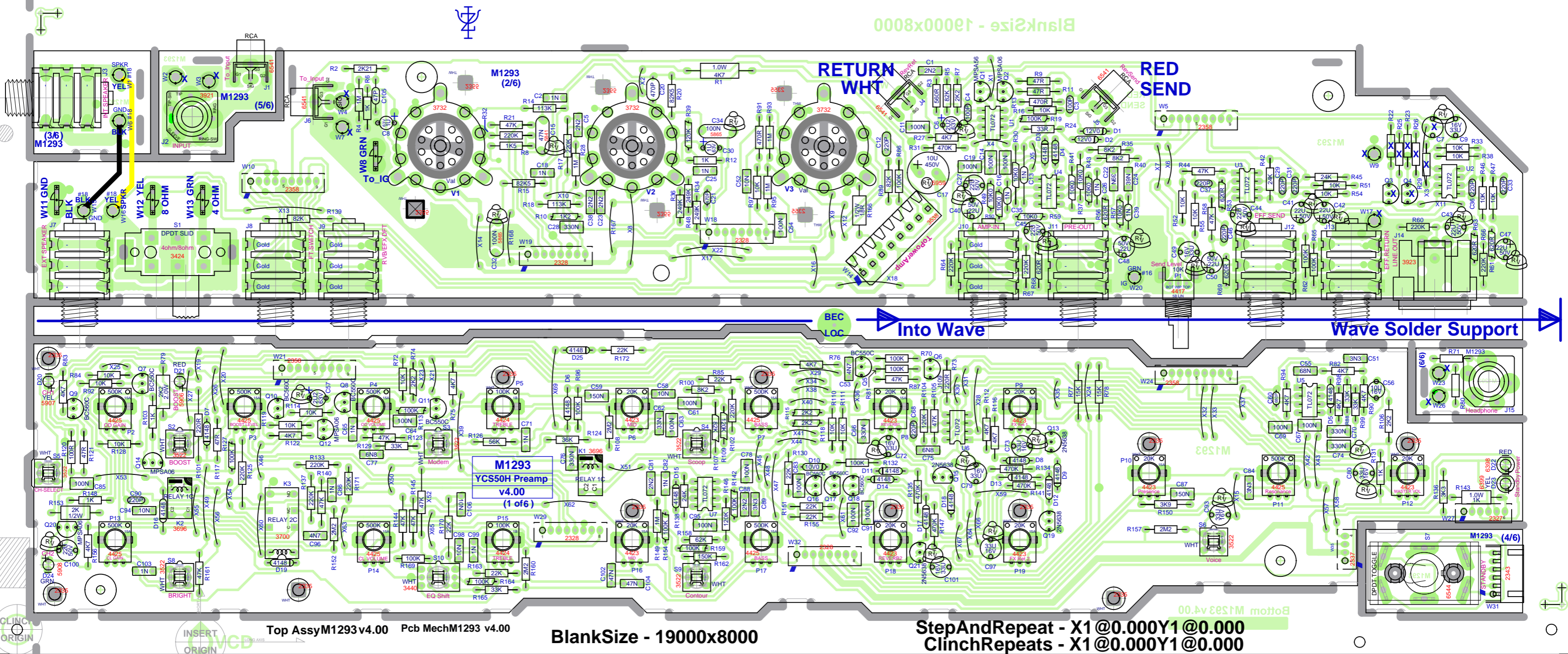
M1293 POTLIST				
MODEL(S):- YCS50H				
REF	FUNCTION	PART#	KNOB	{NEW}
P1	SEND LEVEL	4417	8431	N
P2	OD GAIN	4425	8431	N
P3	BOOST LEVEL	4425	8431	N
P4	OD VOLUME	4425	8431	N
P5	TREBLE	4424	8431	N
P6	MID	4423	8431	N
P7	BASS	4425	8431	N
P8	REVERB1	4423	8431	N
P9	FX RET 1	4423	8431	N
P10	PRESENCE	4423	8431	N
P11	RESONANCE	4425	8431	N
P12	MASTER VOLUME	4423	8431	N
P13	CL GAIN	4425	8431	N
P14	CL VOLUME	4425	8431	N
P15	TREBLE	4424	8431	N
P16	MID	4423	8431	N
P17	BASS	4425	8431	N
P18	REVERB2	4423	8431	N
P19	FX RET 2	4423	8431	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

M1293 PCB_DATABASE_HISTORY			
MODEL(S):- YCS50H			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	11/APR/2008	1.00	RELEASED FOR PRODUCTION
2	2008/04/30	2.00	PC#7535 & flipped standby switch.
3	23-SEP-2009	.	PC#7865: changes according to PC
4	12-MAR-2010	4.00	PC#8037: CHANGED TO NYLON STANDOFF NUT CHANGED TO XH STYLE CONNECTORS
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



Product YCS50H Preamp
Switching PCB# M1293 Sheet 3 of 3
Date: Fri Mar 12, 2010 Rev:v4.00 YsType:
Filename: M1293V400.sch2002

BlankSize - 19000x8000



Top AssyM1293 v4.00 Pcb MechM1293 v4.00

BlankSize - 19000x8000

StepAndRepeat - X1@0.000Y1@0.000
ClinchRepeats - X1@0.000Y1@0.000

SEE LAYOUT DOCUMENTATION

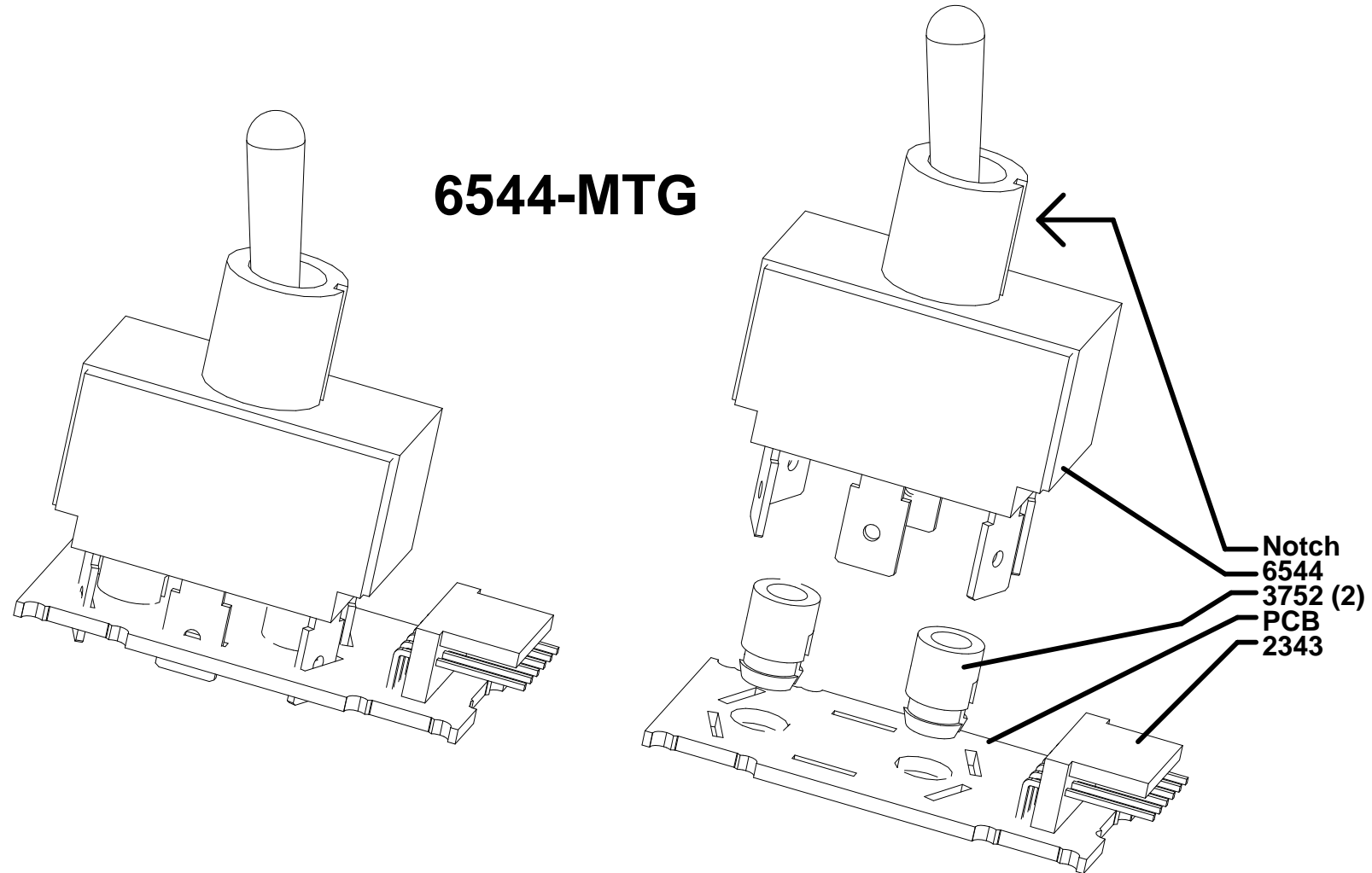


SEE LAYOUT DIAGRAM



M1293 PRODUCTION NOTES

1. DO NOT AUTO INSERT OR HAND INSERT COMPONENTS MARKED WITH "X"





SEE LAYOUT DIAGRAM



M1293 PCB_DATABASE_HISTORY

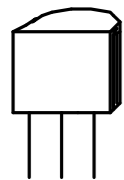
MODEL(S):- YCS50H			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	11/APR/2008	1.00	RELEASED FOR PRODUCTION
2	2008/04/30	2.00	PC#7535 & flipped standby switch.
3	23-SEP-2009	.	PC7865: changes according to PC
4	12-MAR-2010	4.00	PC#8037: CHANGED TO NYLON STANDOFF NUT
5	D	V	CHANGED TO XH STYLE CONNECTORS
6	D	V	N
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

M1293 POTLIST

MODEL(S):- YCS50H				
REF	FUNCTION	PART#	NOB	
P1	SEND LEVEL	4417	8431	
P2	OD GAIN	4425	8431	
P3	BOOST LEVEL	4425	8431	
P4	OD VOLUME	4425	8431	
P5	TREBLE	4424	8431	
P6	MID	4423	8431	
P7	BASS	4425	8431	
P8	REVERB1	4423	8431	
P9	FX RET 1	4423	8431	
P10	PRESENCE	4423	8431	
P11	RESONANCE	4425	8431	
P12	MASTER VOLUME	4423	8431	
P13	CL GAIN	4425	8431	
P14	CL VOLUME	4425	8431	
P15	TREBLE	4424	8431	
P16	MID	4423	8431	
P17	BASS	4425	8431	
P18	REVERB2	4423	8431	
P19	FX RET 2	4423	8431	

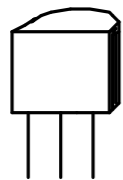
PIN CONFIGURATION

2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63



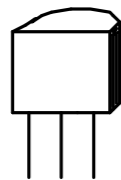
E B C
TO-92

BC550C
BC560C

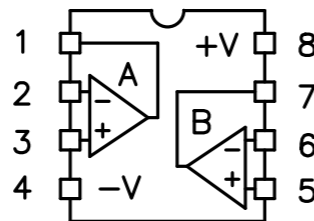


C B E
TO-92

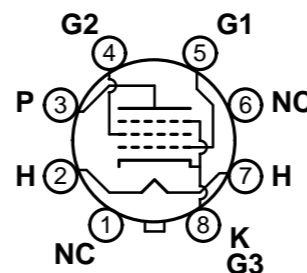
J109
2N5638



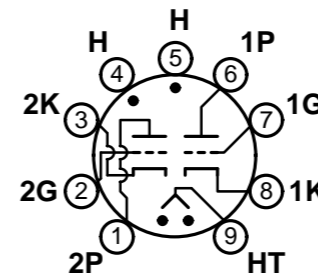
D S G
TO-92



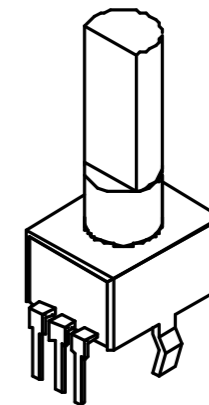
6882_PC



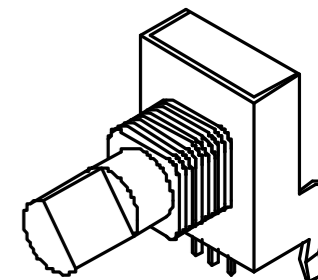
EL34



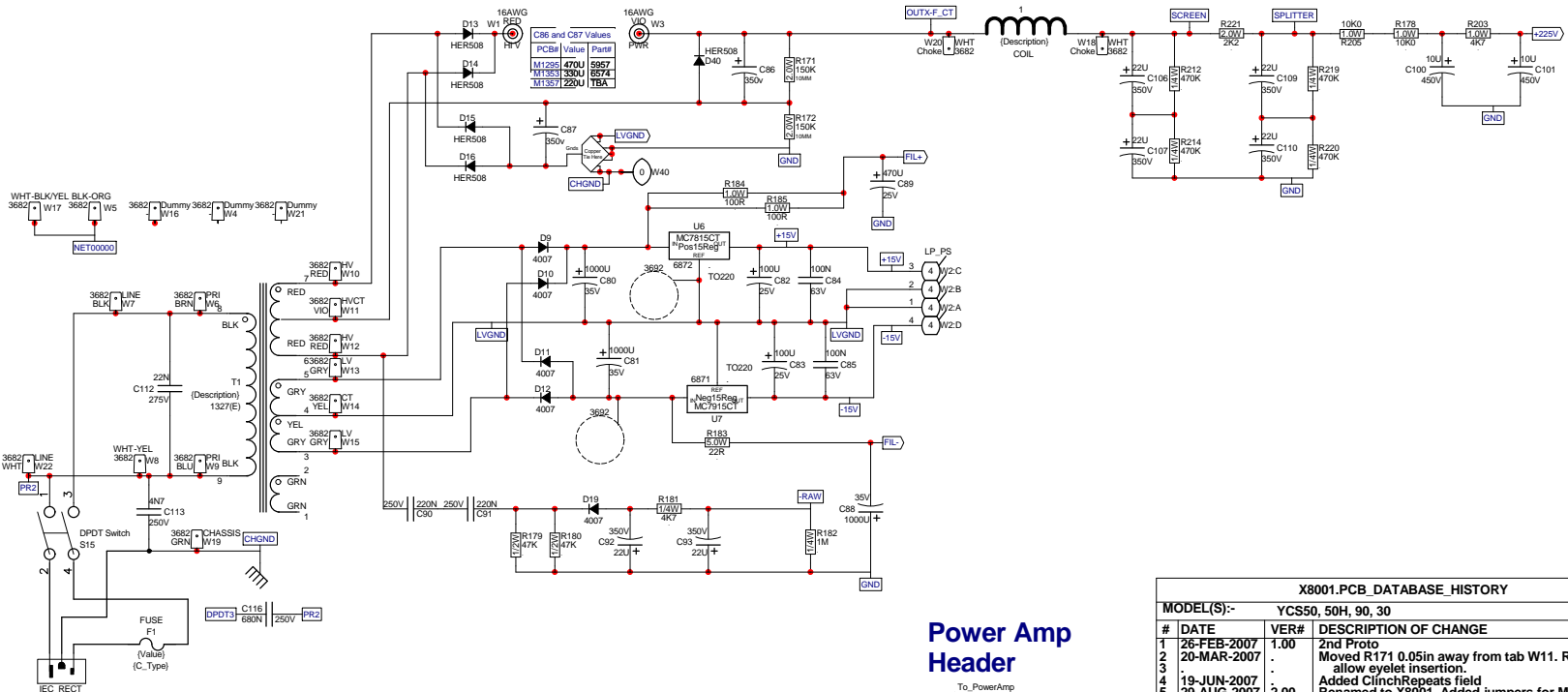
12AX7A



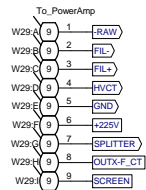
"STYLE_P32"



"STYLE_P28"



Power Amp Header



X8001.PCB_DATABASE_HISTORY			
MODEL(S):- YCS50, 50H, 90, 30			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	26-FEB-2007	1.00	2nd Proto
2	20-MAR-2007	-	Moved R171 0.05in away from tab W11. Rotate C8 to allow eyelet insertion.
3	-	-	Added ClinchRepeats field
4	19-JUN-2007	-	Renamed to X8001. Added jumpers for M1295/YCS90, M1353/YCS50, M1357/YCS30. Imported fixture nodes.
5	29-AUG-2007	2.00	Moved R171 0.05in more away from tab W11. Updated pads on TO220 and Molex pins. Corrected X2 span.
6	-	-	Move W11, D40 and R171 to eliminate clearance errors.
7	-	-	Moved W15 0.05" away from D12. Made rtvhole clearance 10.
8	-	-	
9	14-SEP-2007	3.00	
10	18-SEP-2007	-	
11	15-DEC-2008	4.00	PC#7511, EXTEND THE BOARD AND ADD 5 TABS
12	D	V	N
13	D	V	N



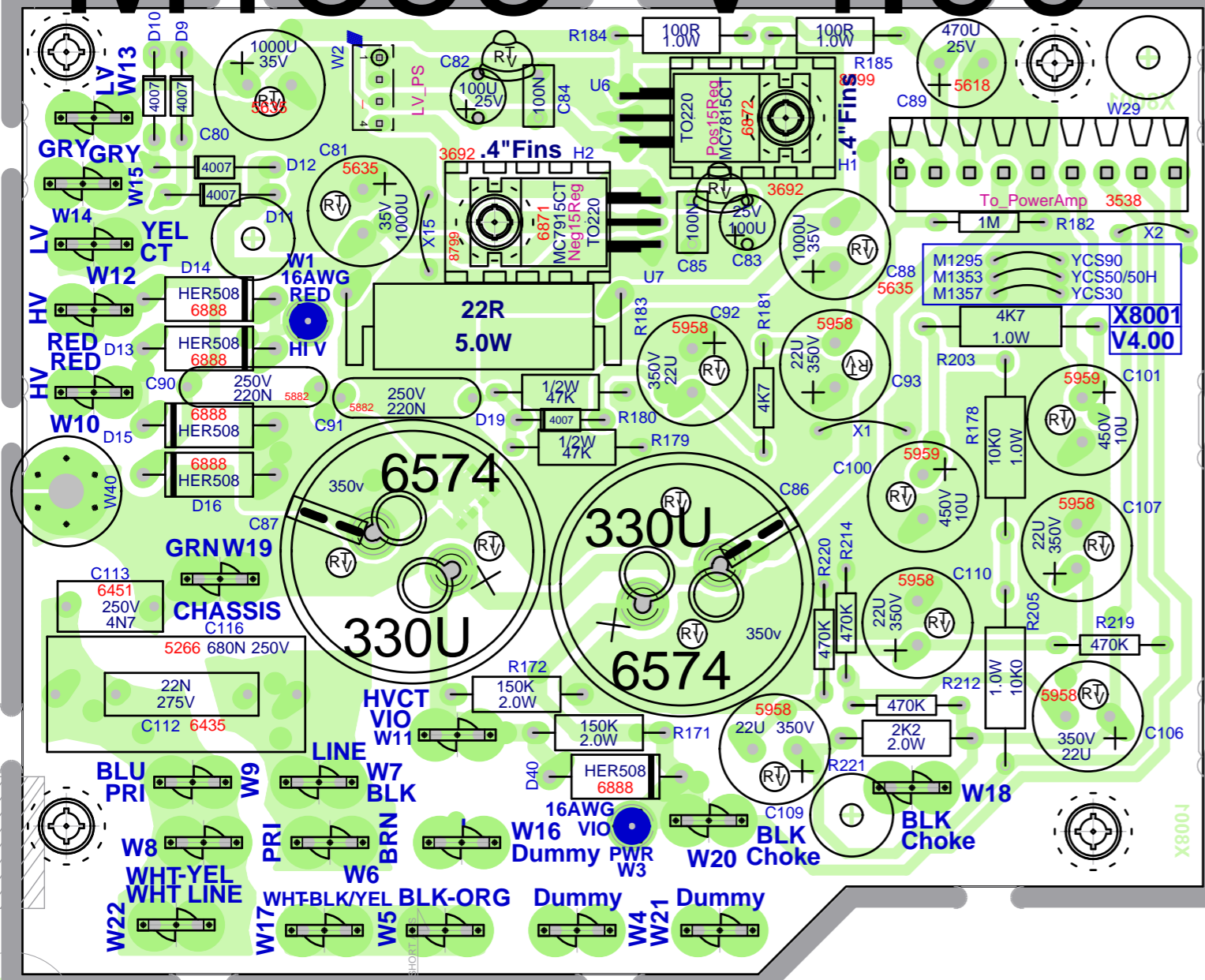
Product YCS50/90 Power Supply

Power Supply	PCB# X8001	Sheet 1 of 2
Date: Fri Jan 23, 2009	Rev: V4.00	YsType:
Filename: X8001V400sch.sch2002		

BREAK PANEL IN 2 ALONG THIS SCORE LINE BEFORE CLINCHING.

M1353 V4.00

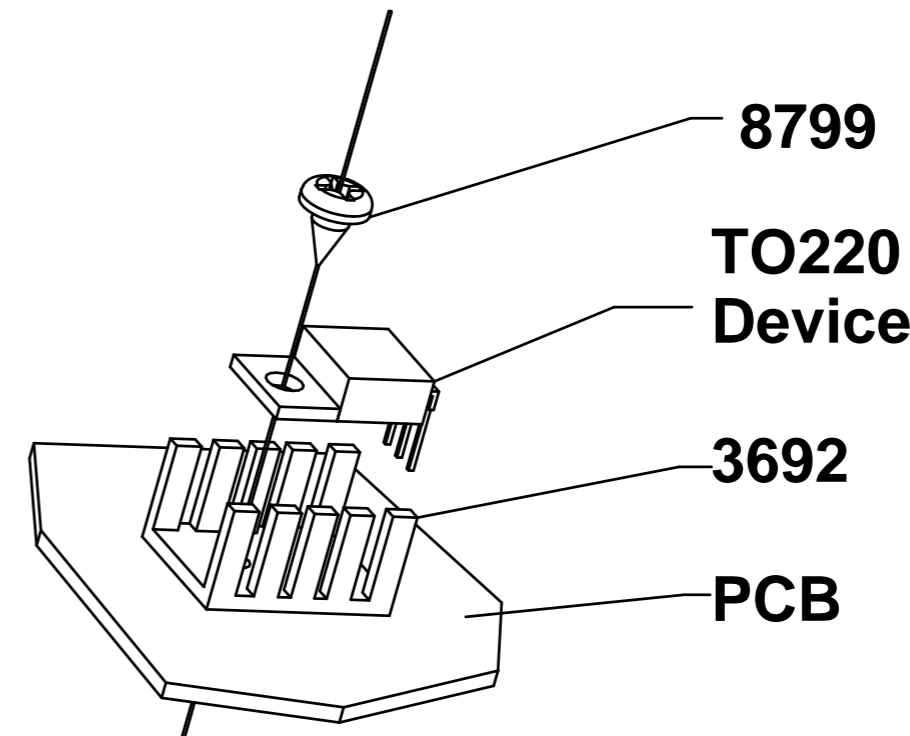
YCS50/50H



StepAndRepeat - X3@6.000Y2@5.500
ClinchRepeats - X3@6.000Y1@5.500
BlankSize - 18000x11000

EYELET LEGEND

- SOCKET
- SOCKET UPSIDE DOWN
- NORMAL
- NORMAL LARGE
- SOCKET WITH DIRECTION
- TAB



TO220+3692+8799-MTG

Pcb Mech X8001V4.00
Top Assy X8001V4.00

SEE LAYOUT DOCUMENTATION



SEE LAYOUT DIAGRAM



PRODUCTION NOTES X8001(M1295, M1353, M1357)

1. BEFORE CLINCHING, BREAK PANEL IN 2 ALONG LINE WHERE INDICATED.

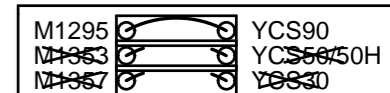
2. B.A. WILL PUT C86 AND C87 AS FOLLOWS

BOARD	C86	C87
M1295	#5857, 470U	#5857, 470U
M1353	#6574, 330U	#6574, 330U
M1357	#____, 220U	#____, 220U

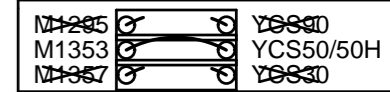
3. B.A. WILL CUT TWO OTHER JUMPERS

X8001.PCB_DATABASE_HISTORY			
MODEL(S):- YCS50, 50H, 90, 30			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	26-FEB-2007	1.00	2nd Proto
2	20-MAR-2007	.	Moved R171 0.05in away from tab W11. Rotate C8 to allow eyelet insertion.
3	.	.	
4	19-JUN-2007	.	Added ClinchRepeats field
5	29-AUG-2007	2.00	Renamed to X8001. Added jumpers for M1295/YCS90, M1353/YCS50, M1357/YCS30. Imported fixture nodes.
6	.	.	Moved R171 0.05in more away from tab W11. Updated pads on TO220 and Molex pins. Corrected X2 span.
7	.	.	
8	.	.	
9	14-SEP-2007	3.00	Move W11, D40 and R171 to eliminate clearance errors.
10	18-SEP-2007	.	Moved W15 0.05" away from D12. Made rtvhole clearance 10.
11	17-MAR-2009	4.00	PC#7511, EXTEND THE BOARD AND ADD 5 TABS
12	D	V	N
13	D	V	N

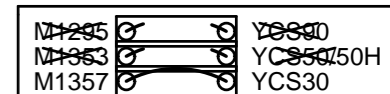
M1295



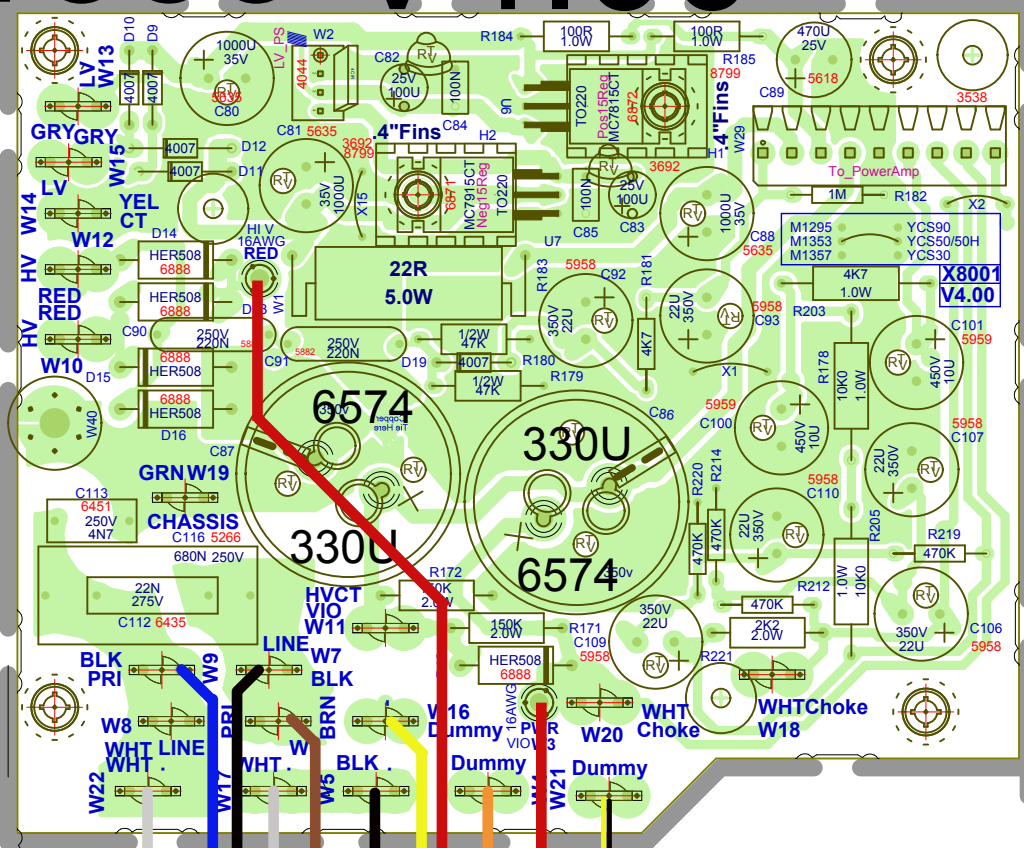
M1353



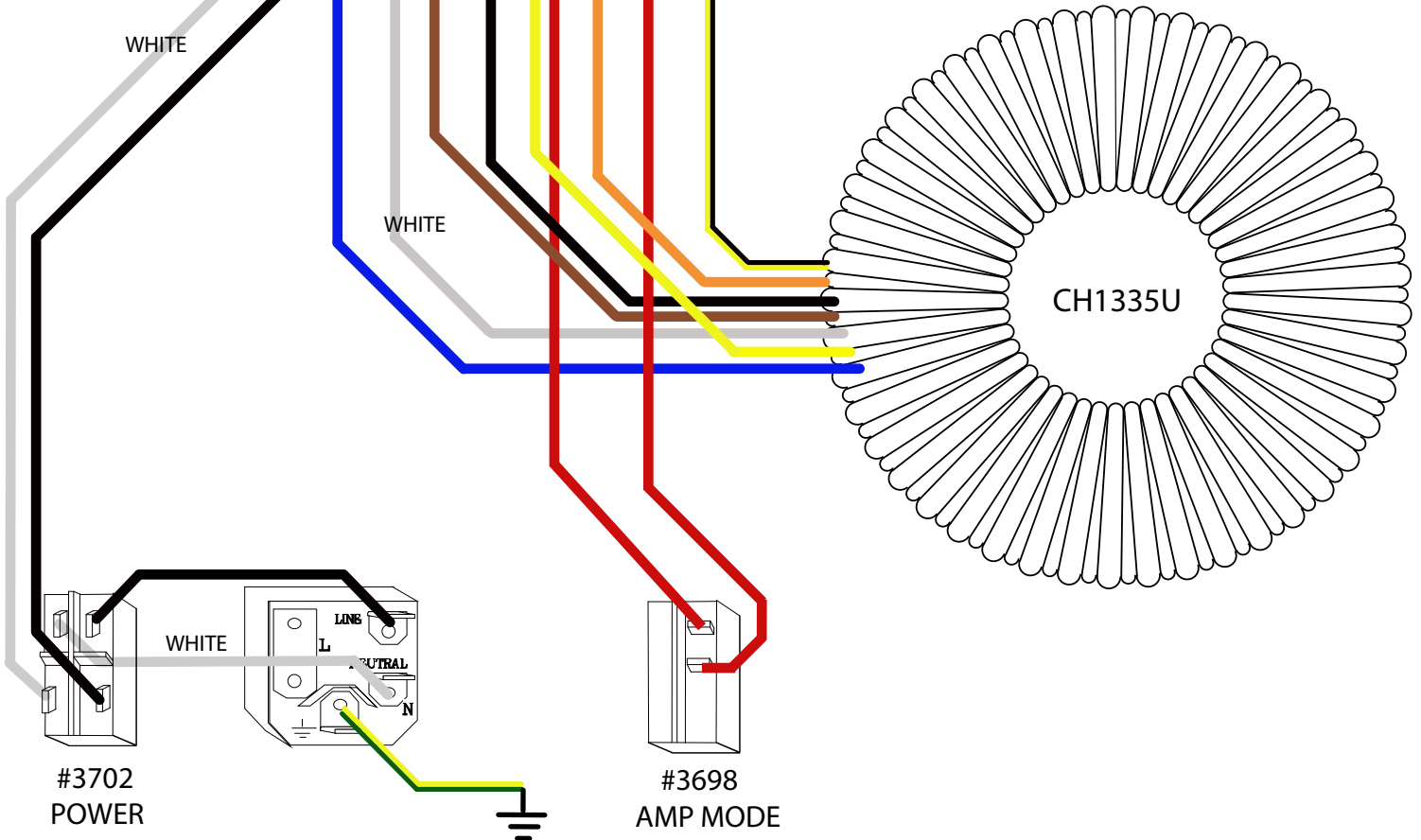
M1357



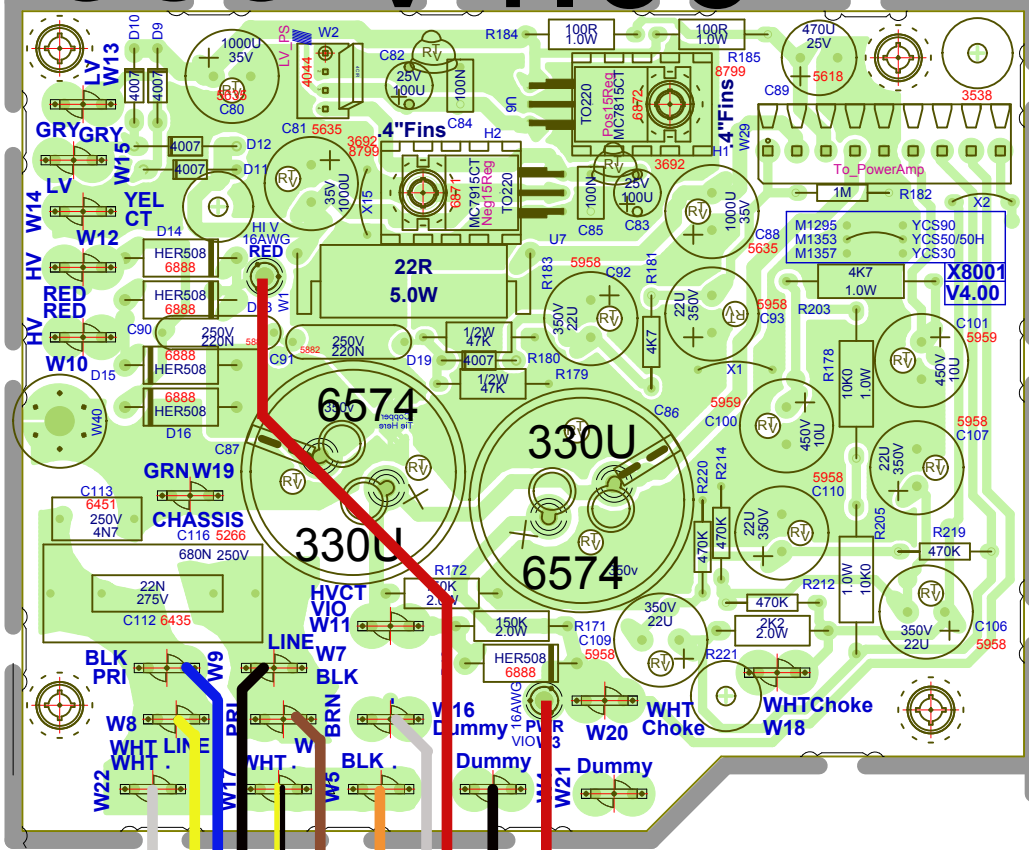
M1353 V4.00 YCS50H



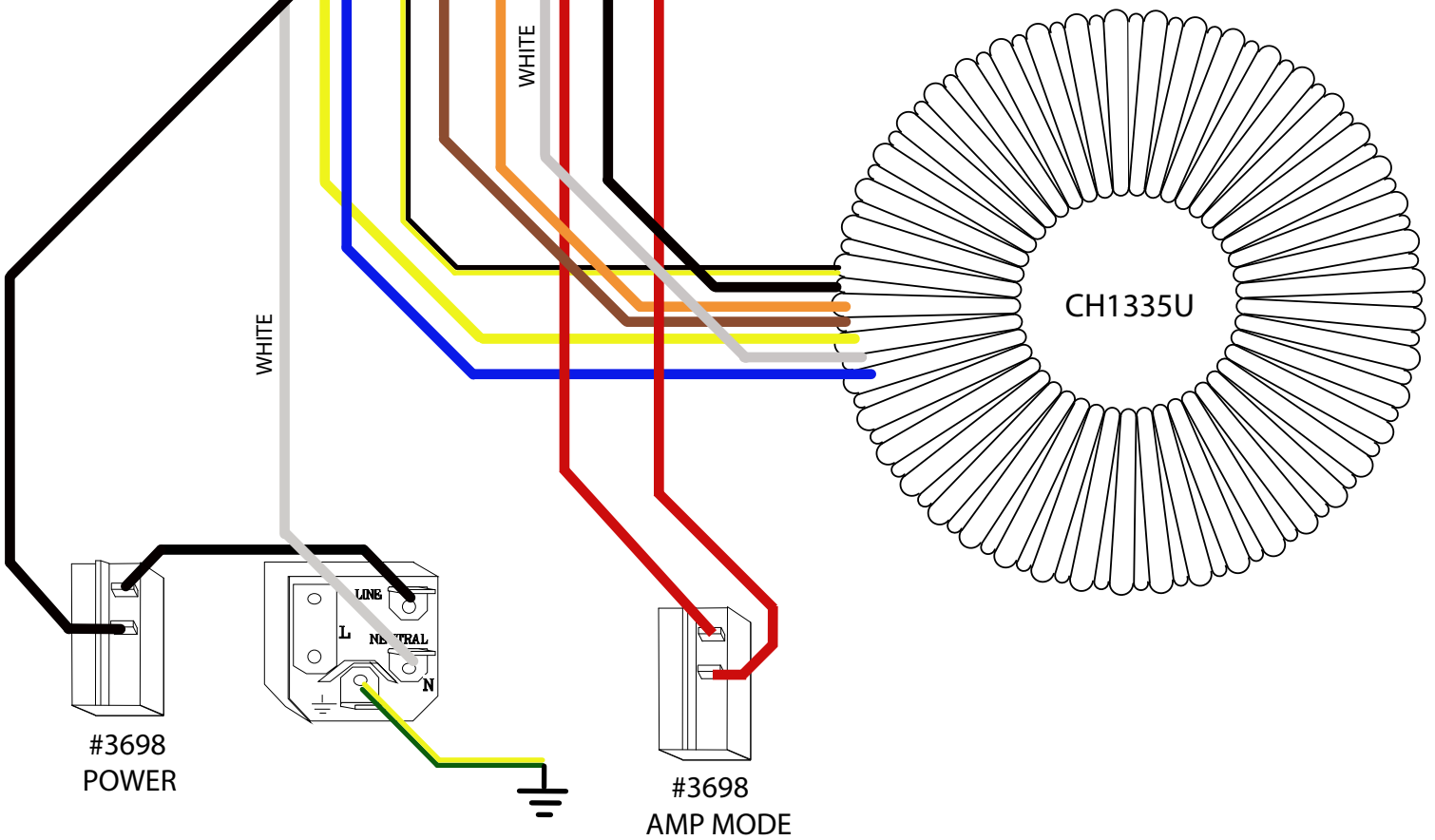
CE WIRING
240 VAC



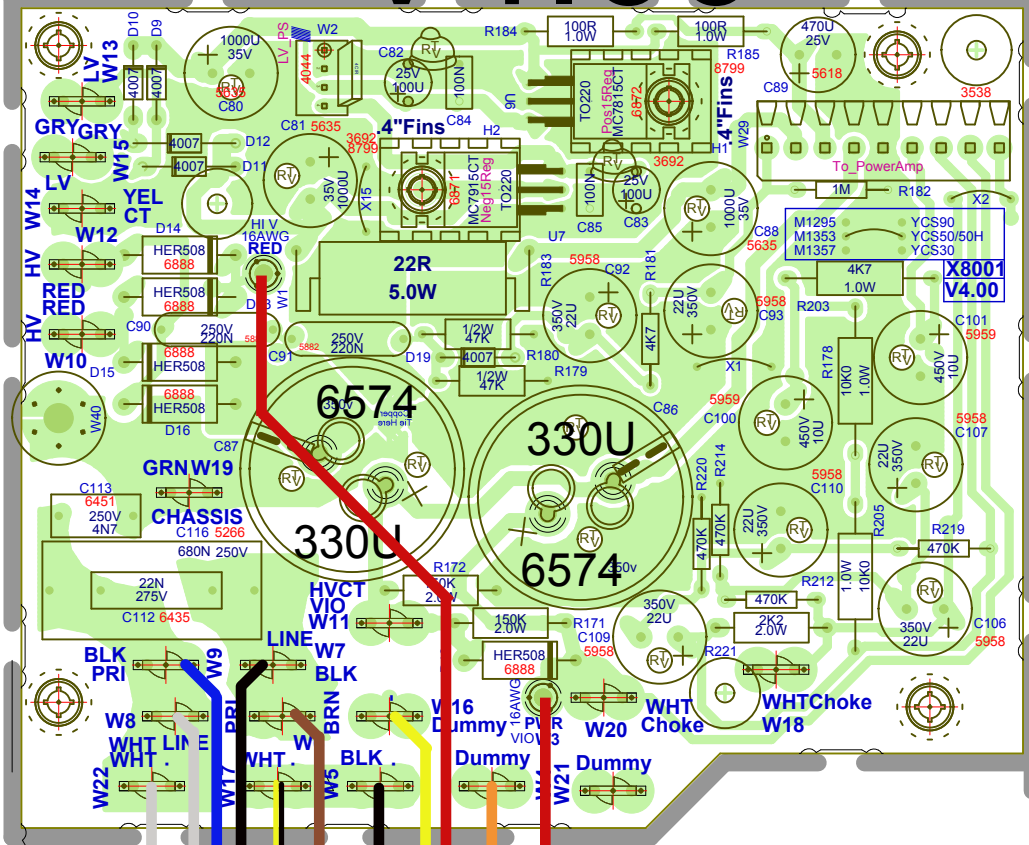
M1353 V4.00 YCS50H



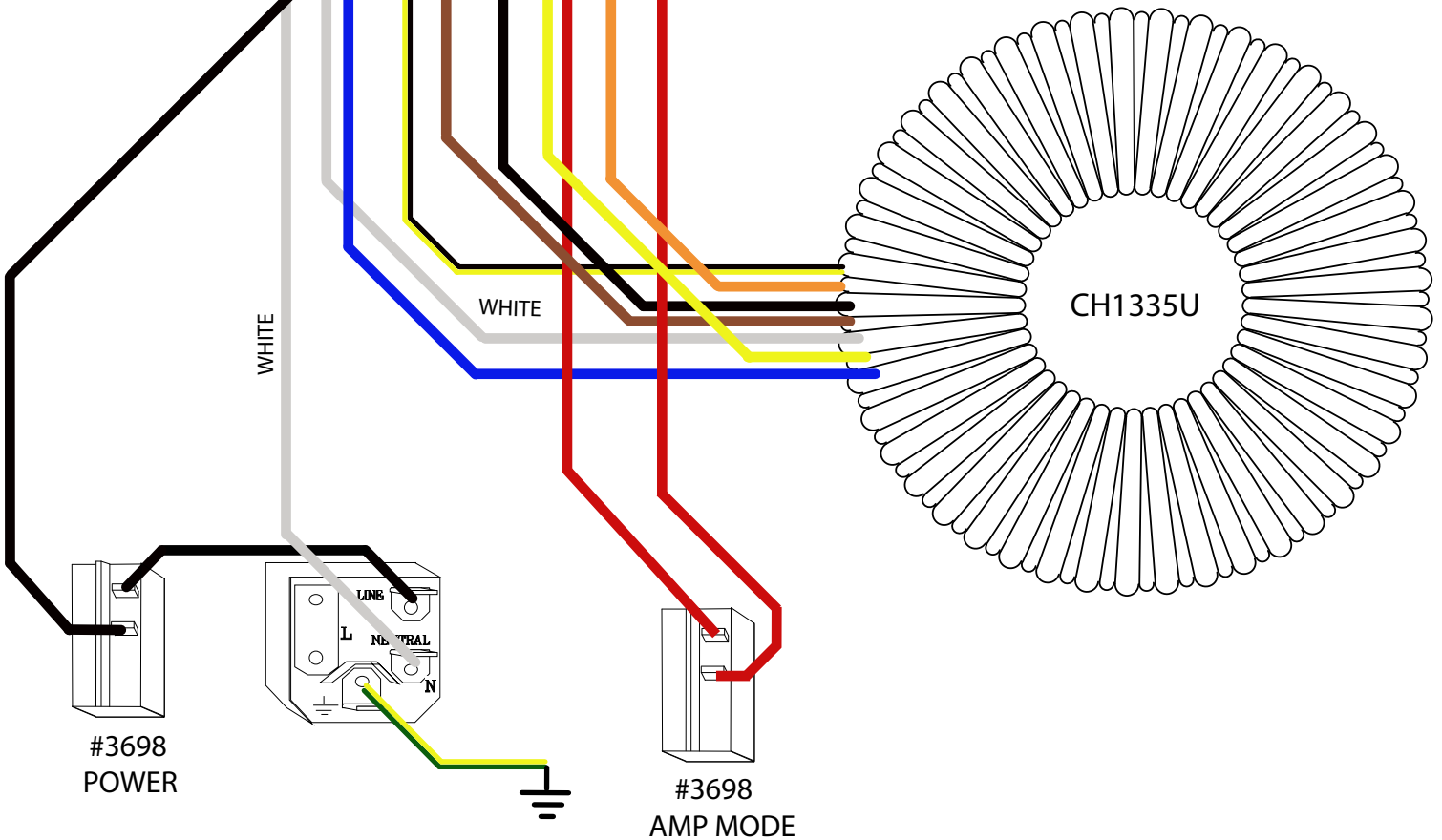
JA WIRING
100 VAC



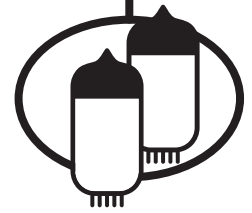
M1353 V4.00 YCS50H



N.A. WIRING
120 VAC



SERVICE BULLETIN

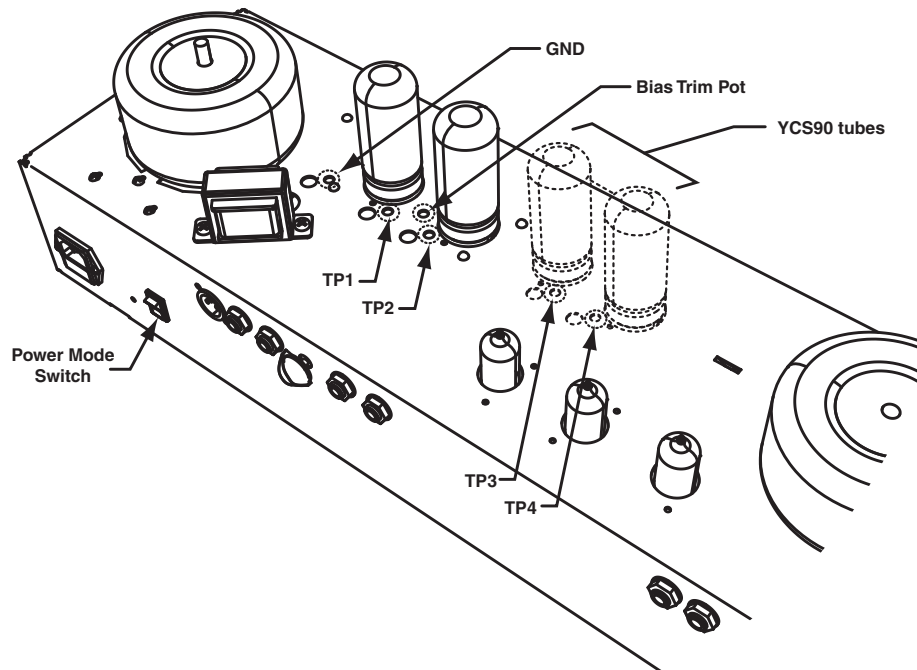


Tube Bias Adjustment

1. Adjust the amplifiers bias when in the 50W mode (YCS50/H) or 90W mode (YCS90). A speaker/load should be connected at all times when amplifier is powered.
2. Turn the amplifier on; allow it to warm up for 2-3 minutes.
3. Once the amplifier is warmed up, make sure the amplifier is out of Standby mode. Do not apply any input stimulus (signals etc.).
4. Using a meter set to measure mV DC, attach the negative (black) probe to the GND. Place the positive (red) probe on TP1
5. Adjust the Bias Trim Pot until you measure 75mv DC between GND and TP1.

Measure the bias between GND and TP2. It should also measure as 75mv DC. (For the YCS90 the measurements should read 75mV on Tp1, Tp2, TP3 and TP4 which signifies that all tubes are matched).

Products Affected
Traynor YCS50,
YCS50H & YCS90



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