



SERVICE MANUAL

YBA300 + YBA100



WEB: www.yorkville.com

WORLD HEADQUARTERS

CANADA

Yorkville Sound Limited

550 Granite Court
Pickering, Ontario
L1W 3Y8 CANADA

Voice: 905-837-8481
Fax: 905-837-8746

U.S.A.

Yorkville Sound Inc.

4625 Witmer Industrial Estate
Niagara Falls, New York
14305, USA

Voice: 716-297-2920
Fax: 716-297-3689

SMT Disclaimer

Due to the complex nature of the use of SMT installed components in Yorkville equipment, we highly caution all service technicians in attempting to repair or replace SMT factory installed components.

Many of these components may be glued prior to initial soldering.

Replacing SMT components requires expensive specialized de-soldering equipment and training.

Yorkville Sound will repair and replace defective SMT components to ensure proper quality assurance and installation is maintained.

Quality and Innovation Since 1963
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'amplitude suffisante pour présenter un risque de choc électrique.

The DO NOT STACK symbol is intended to alert the user that the product shall not be vertically stacked because of the nature of the product.

La symbole NE PAS EMPILER est pour alerter l'utilisateur que le produit ne doit pas être empilé verticalement en raison de la nature du produit.



SEPARATE
COLLECTION
WEEE



CAUTION: HOT SURFACE
ATTENTION: SURFACE CHAUE



DO NOT
PUSH OR PULL



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. THIS DEVICE IS FOR INDOOR USE ONLY!

**INSTALLED BATTERY PACKS SHALL NOT BE EXPOSED TO EXCESSIVE HEAT
SUCH AS SUNSHINE, FIRE OR THE LIKE.**

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 CE PRODUIT EST POUR L'USAGE À L'INTÉRIEUR SEULEMENT. LES PACKS BATTERIES INSTALLEÉS NE DOIVENT PAS ÊTRE EXPOSÉS À UNE CHALEUR EXCESSIVE TELLE QUE LE ENSOLEILLEMENT, LE FEU OU SIMILAIRES.

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 connection. 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/or 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. Disconnect power before servicing!

IMPORTANT SAFETY INSTRUCTIONS



The 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 enclosure that may be of sufficient magnitude to constitute a risk of shock to persons



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 product

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water.

6. Clean only with dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. 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.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

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

14. Refer all servicing to 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.

WARNING:

• To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

• 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 or appliance coupler shall remain readily accessible.



Le symbole représentant un éclair avec une flèche à l'intérieur d'un triangle équilatéral est utilisé pour prévenir l'utilisateur de la présence d'une tension électrique dangereuse non isolée à l'intérieur de l'appareil. Cette tension est d'un niveau suffisamment élevé pour représenter un risque d'électrocution



Le symbole représentant un point d'exclamation à l'intérieur d'un triangle équilatéral, signale à l'utilisateur la présence d'instructions importantes relatives au fonctionnement et à l'entretien de l'appareil dans cette notice d'installation

1. Lisez ces instructions.

2. Conservez ces instructions.

3. Respectez tous les avertissements.

4. Suivez toutes les instructions.

5. N'utilisez pas l'appareil près de l'eau.

6. Nettoyez uniquement avec chiffon sec.

7. Ne bloquez pas les ouvertures de ventilation. Installez en suivant les instructions du fabricant.

8. Ne pas installer près des sources de chaleur telles que radiateurs, bouches de chaleur, four ou autres appareils (y compris les amplificateurs) produisant de la chaleur.

9. N'annulez pas l'objectif sécurité de la fiche polarisée ou de la tige de mise à la terre. Une fiche polarisée possède deux lames avec une plus grande que l'autre. Une prise avec mise à la terre possède deux lames et une troisième tige. La lame large ou la troisième tige sont fournies pour votre sécurité. Si la fiche n'entre pas dans votre prise, consultez un électricien pour remplacer la prise obsolète.

10. Protéger le cordon d'alimentation des piétinements ou pincements en particulier près des fiches, des prises de courant et au point de sortie de l'appareil.

11. Utilisez uniquement les accessoires spécifiés par le fabricant.

12. Utilisez uniquement avec un chariot, stand, trépied ou une table spécifiée par le fabricant, ou vendus avec l'appareil.

13. Débranchez l'appareil durant un orage ou lorsqu'il reste inutilisé pendant de longues périodes de temps.

14. Confiez toute réparation à un technicien qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce soit; comme lorsque le cordon d'alimentation ou la fiche est endommagé, lorsque le liquide a été renversé ou des objets sont tombés à l'intérieur, lorsque l'appareil a été exposé à la pluie ou l'humidité, ne fonctionne pas normalement, ou est tombé.

AVERTISSEMENT:

• Pour réduire les risques d'incendie ou de choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité et ne placez pas d'objets contenant des liquides, tels que des vases, sur l'appareil.

• Pour isoler totalement cet appareil de l'alimentation secteur, débranchez totalement son cordon d'alimentation du réceptacle CA.

• La prise du cordon d'alimentation ou du prolongateur, si vous en utilisez un comme dispositif de débranchement, doit rester facilement accessible.



CAUTION

TO PREVENT ELECTRIC SHOCK HAZARD,
DO NOT CONNECT TO MAINS POWER SUPPLY
WHILE GRILLE IS REMOVED.

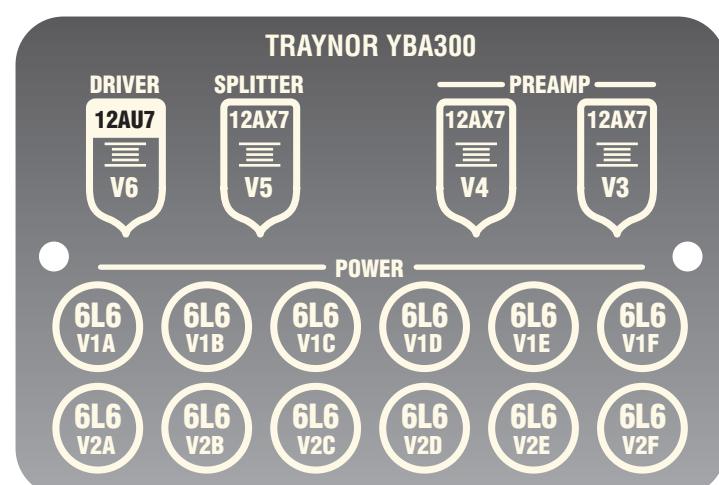
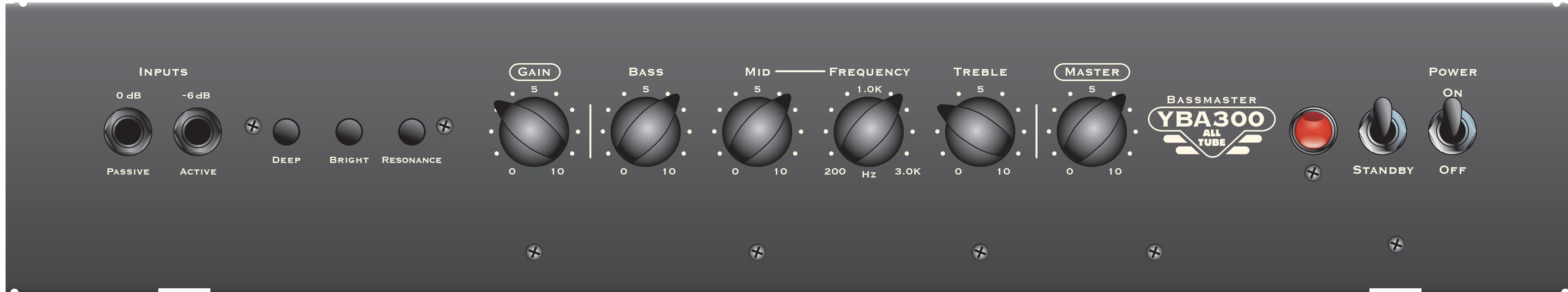


AVIS

POUR PRÉVENIR LES RISQUES D'ÉLECTROCUSSION,
NE PAS RACCORDER A L'ALIMENTATION ÉLECTRIQUE ALORS
QUE LA GRILLE EST RETIRÉE.





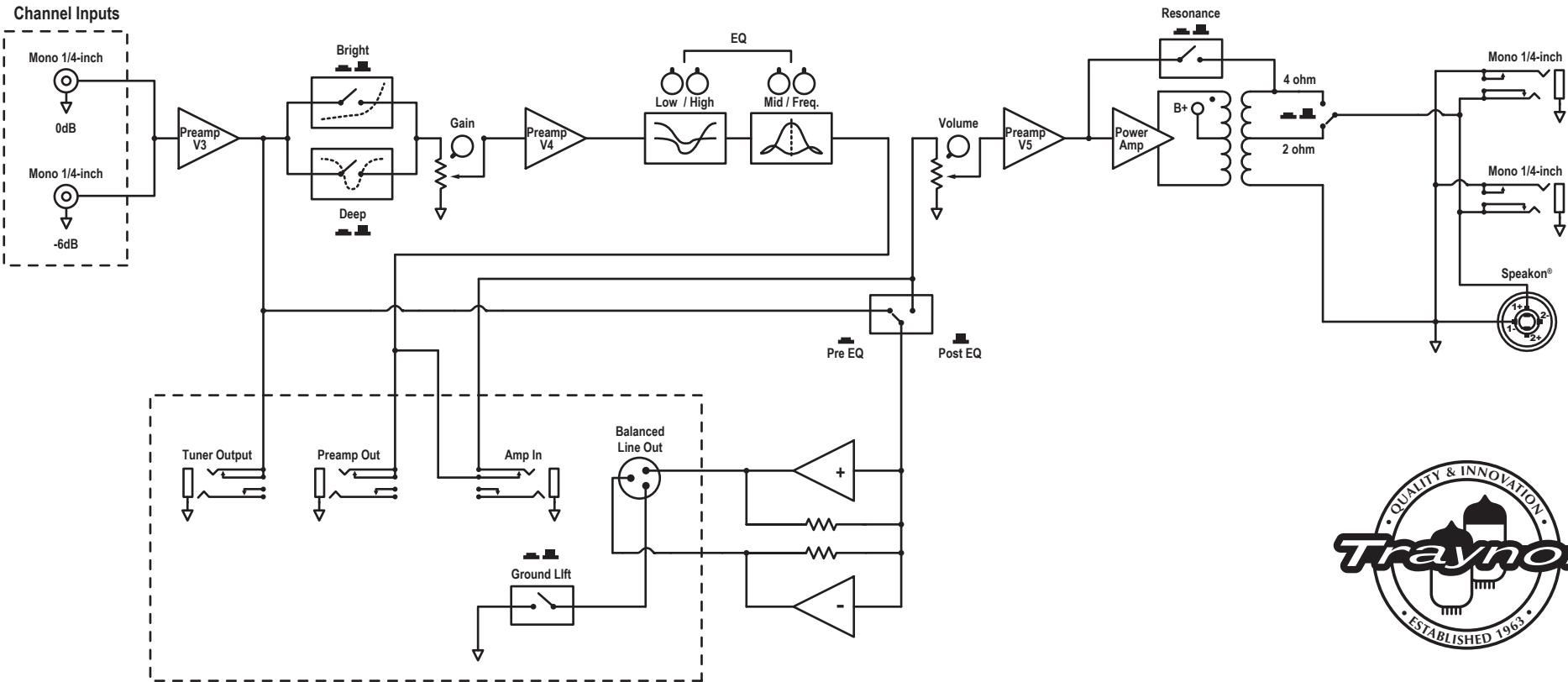


Specifications	
Type	All Tube Bass Head
Power @ min. impedance (watts)	YBA100: 100 @ 4/8 ohms, switchable YBA300: 300 @ 2/4 ohms, switchable
Minimum Impedance (ohms)	YBA100: 4 YBA300: 2
Burst Power - 2 cycle	YBA100: 150 watts YBA300: 400 watts
Frequency Response (Hz +/-3dB)	30 - 16,000
Hum and Noise (dB)	-90db
Input Channels	1
Channel 1 - inputs	2 x 1/4inch
Channel 1 - controls	Gain
Master Volume Control	Yes
Main Tone Controls	Treble, Mid, Frequency, Bass, Bright Switch, Deep Switch, Resonance Switch
Input Sensitivity (mV)	20
Master Outputs	Pre-amp out (Pre Master)
Line Out (type / configuration)	XLR Balanced (Pre/Post, Grnd Lift)
Line Out Sensitivity (Vrms)	1V
Effects Loop / Location	Pre-amp out, Power Amp in, Loop Thru
Effects Return Sensitivity (Vrms)	1V
LED Indicators	Power/Standby
External speaker output / location	2 x 1/4inch, 1 Speakon (Rear)
Other Features	YBA100: Impedance Selector 4/8 ohms YBA300: Impedance Selector 2/4 ohms YBA100: Tubes: 3x12AX7, 4x6L6 YBA300: Tubes: 3x12AX7, 1x12AU7, 12x6L6 Tuner output 1/4inch
Dimensions (DWH, inches)	YBA100: 8.5x18.5x8 YBA300: 11.5 x 24 x 10
Dimensions (DWH, cm)	YBA100: 21.5x47x20 YBA300: 29 x 61 x 25.4
Weight (lbs / kg)	YBA100: 22 / 10 YBA300: 51 / 23

Spécifications	
Type	Amplificateur à lampes
Puissance avec impédance minimum (watts)	YBA100: 100 @ 4/8 ohms commutable YBA300: 300 @ 2/4 ohms commutable
Impédance minimum (ohms)	YBA100: 4 YBA300: 2
Suramplification Brusque - 2 cycles	YBA100: 150 watts YBA300: 400 watts
Réponse en Fréquence (Hz +/-3dB)	30 - 16,000
Bruit et Bourdonnement (dB)	-90db
Canaux d'Entrée	1
Entrées - Canal 1	2 x 1/4 pouce
Contrôles - canal 1	Gain
Contrôle de Volume Principal	Oui
Contrôle Principaux de Tonalité	Aiguës, Médianes, Fréquence, Graves, Commutateurs Résonance, Deep, Bright
Sensibilité d'Entrée (mV)	20
Sorties Principales	Sortie Pré-amplificateur (Pré Master)
Sortie Ligne (type / configuration)	XLR Symétrique (Pre/Post, Découplage de masse)
Sortie Ligne - Sensibilité (Vrms)	1V
Boucle d'Effet / Location	Sortie Pré-amplificateur, Entrée d'amplificateur de puissance, Loop Thru
Sensibilité de Retour d'Effet (Vrms)	1V
DEL Indicatrices	En Marche/Standy
Sortie Supplémentaire Pour Haut-Parleur / Location	2 x 1/4 pouce, 1x Speakon (Arrière)
Autres Caractéristiques	YBA100: Sélecteur d'Impédance (4/8 ohms) YBA300: Sélecteur d'Impédance (2/4 ohms) YBA100: Tubes: 3x12AX7, 4x6L6 YBA300: Tubes: 3x12AX7, 1x12AU7, 12x6L6 Sortie 1/4 pouce pour accordeur
Dimensions (PLH, pouces)	YBA100: 8.5x18.5x8 YBA300: 11.5 x 24 x 10
Dimensions (PLH, cm)	YBA100: 21.5x47x20 YBA300: 29 x 61 x 25.4
Poids (livres / kg)	YBA100: 22 / 10 YBA300: 51 / 23

Block Diagram for YBA100 & YBA300

DESIGNED AND MANUFACTURED BY YORKVILLE SOUND



TRAYNOR YBA100 w/EL34s



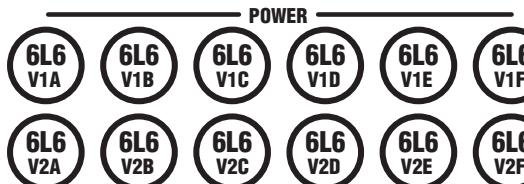
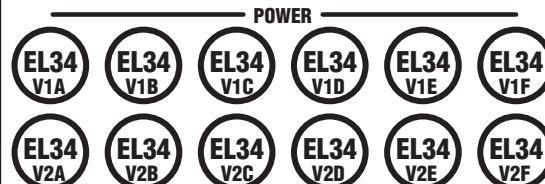
TRAYNOR YBA100 w/6L6s



TRAYNOR YBA300 w/EL34s

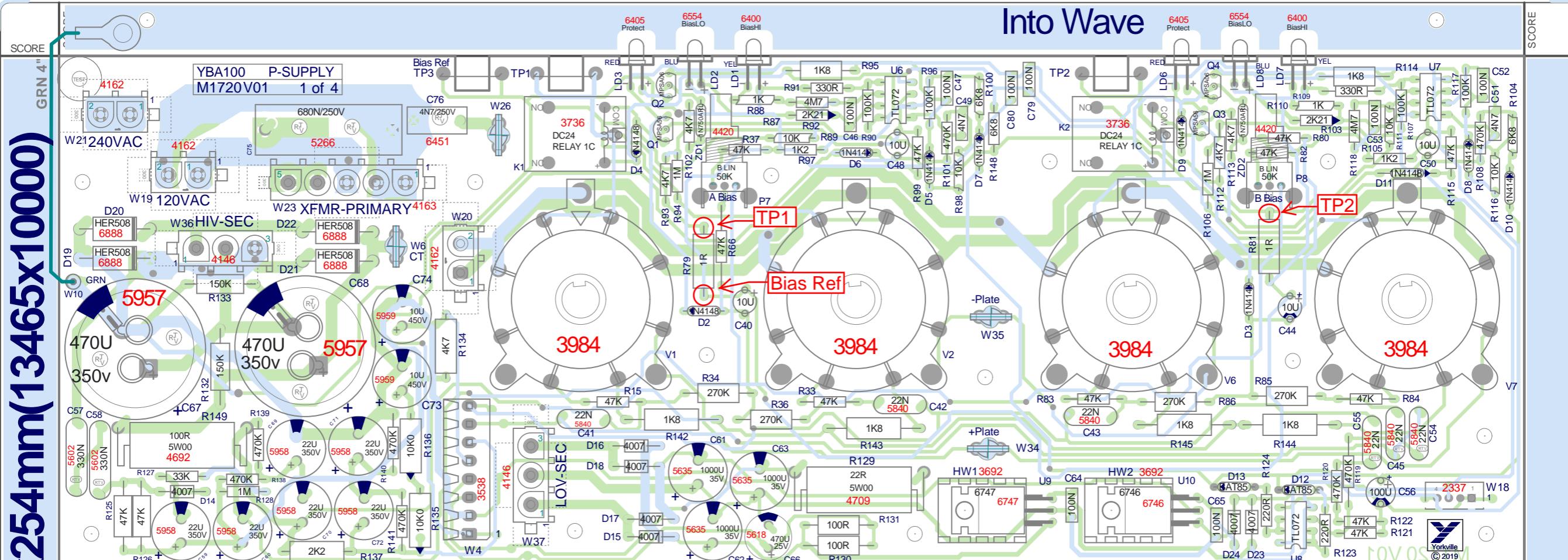


TRAYNOR YBA300 w/6L6s

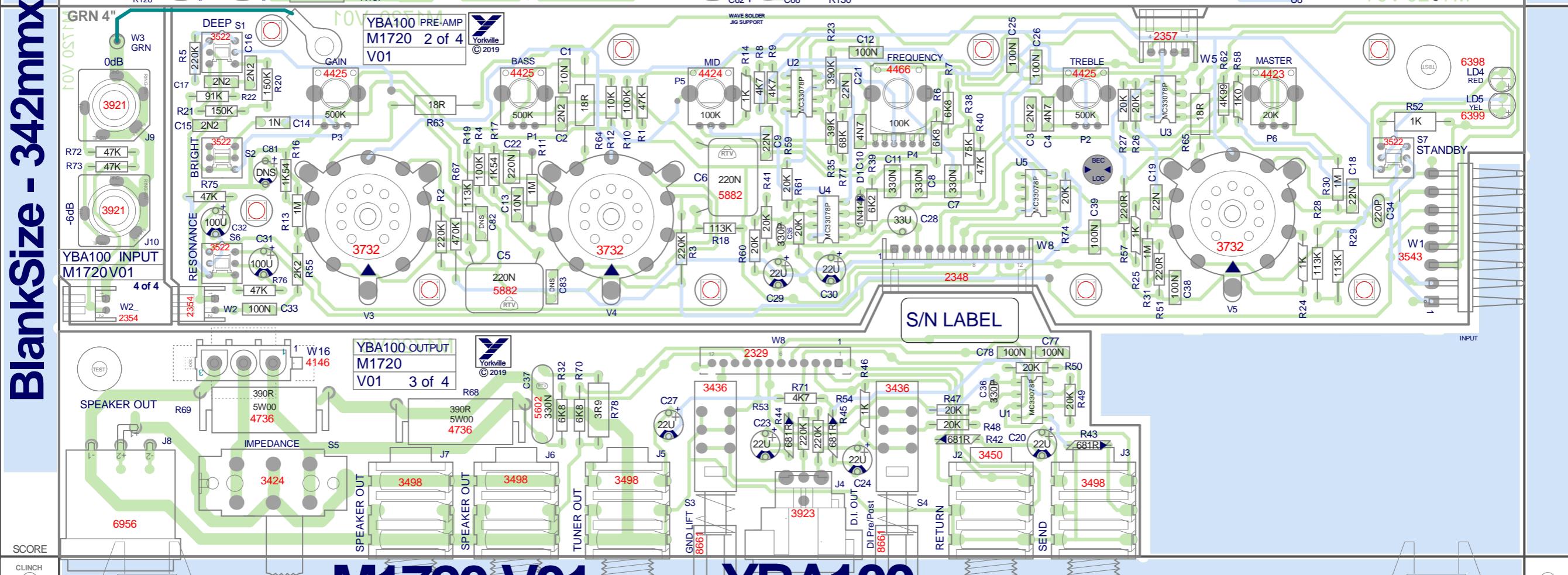


Into Wave

BlankSize - 342mmx254mm(13465x10000)



BlankSize - 342mmx



M1720 V01

YBA100

PCB ASSEMBLY DOCUMENTATION

PCB HARDWARE

SPECIAL PRODUCTION NOTES

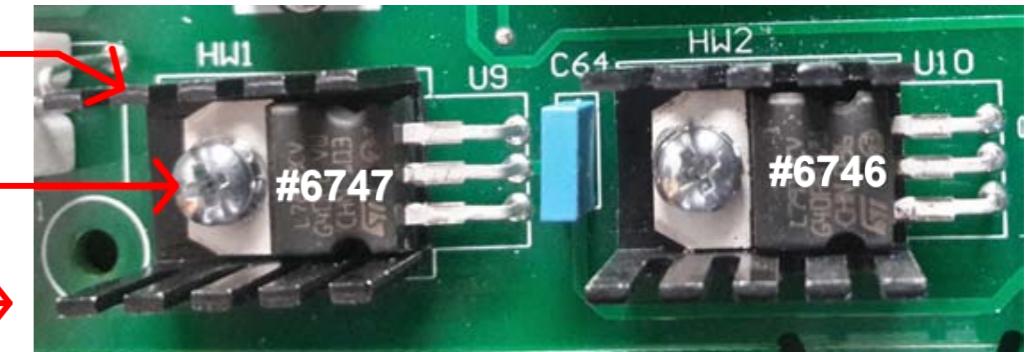
1_BEND FLAT C5,C6 AND RTV.

2_ADD RTV TO ALL CAPS.

3_MOUNT U9 and U10 TO PCB WITH #3692 HEATSINK.

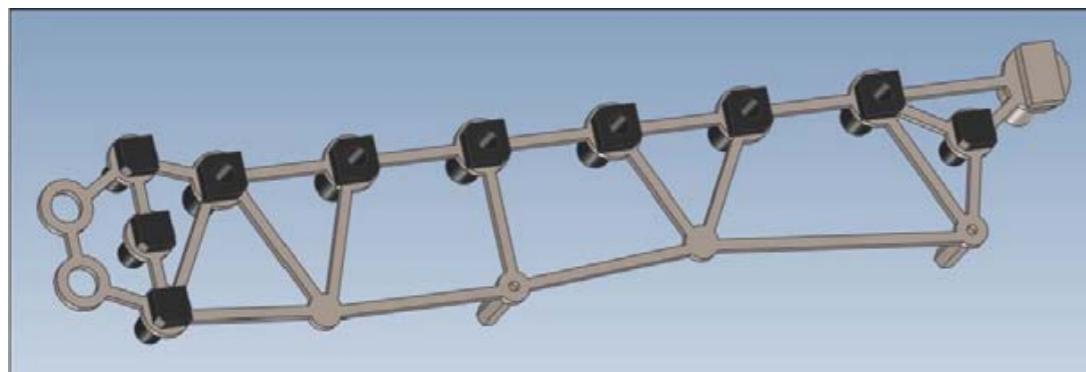
#3692 Heatsink

#9001 Screw



4_INSERT #8663 NYLON SPACER TO #9921 KNOB AND MOUNT WITH GLUE TO #4420 POTENTIOMETER P7,P8.

5_USE JIG FOR POTS,SWITCHES AND JACKS BEFORE WAVE SOLDER .



P7 , P8 .



S3 , S4 .

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	08-JAN-2020	V01	.	Released for Production
2
3
4
5
6
7
8
9
10
11
12
13

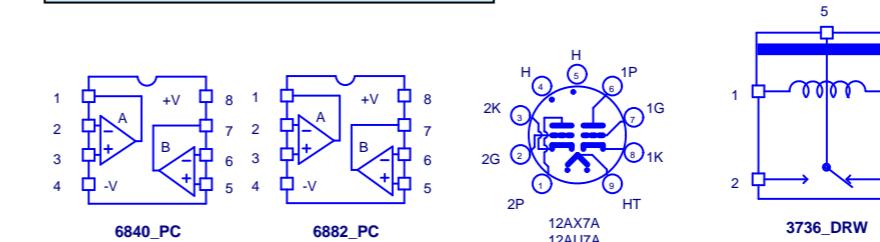
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1
2
3
4
5
6
7
8
9
10
11
12
13

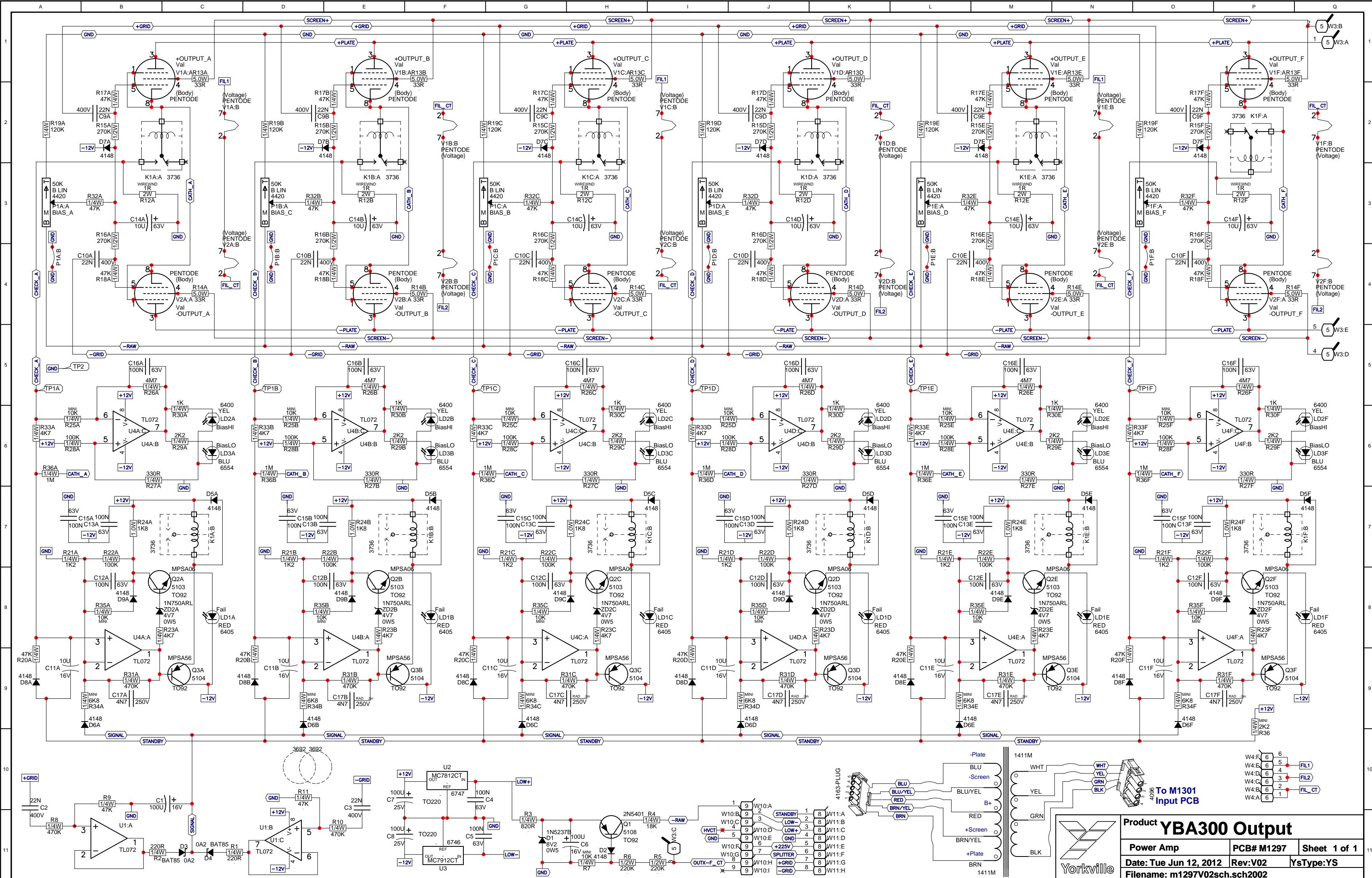
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1
2
3
4
5
6
7
8
9
10
11
12
13

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1	Bass	4425	P32	8430
P2	Treble	4425	P32	8430
P3	Gain	4425	P32	8430
P4	Frequency	4466	P34	8430
P5	MID	4424	P32	8430
P6	MASTER	4423	P32	8430
S1	DEEP	3522	.	8633
S2	BRIGHT	3522	.	8633
S3	GND LIFT	3436	.	8661
S4	DI Pre/Post	3436	.	8661
S5	IMPEDANCE	3424	.	.
S6	RESONANCE	3522	.	8633
S7	STANDBY	3522	.	8633
P7	ABIAS	4420	P28	9921
P8	BBIAS	4420	P28	9921

PINOUT DIAGRAMS





MAKE A NEW COPY EVERYTIME. CHANGES ARE BEING MADE ALL THE TIME



PROPOSAL FOR CHANGE

REJECTED The Proposal for Change has been reviewed and considered but will *not* be implemented.

DATE

PRIORITY	NORM	X-JOB	PC No.	8437	TEMP TO
P	N	O	X		
DATE REQUIRED:					

PCBSA #57

Wiring #55

T&R #70

WACM #52

P/Engineering #25

Sales #10

PCBM #58

Metal Fab #50

Finishing #65

Board & Test #53

LAB #20

Service #09

Auto Insertion #59

W/Shop #60

Chas Screening #51

QC #65

MODEL	PCB/CHAS	VERSION	TASK ORDER
YBA 300	m1291		

SL	<i>[Signature]</i>
BW	<i>[Signature]</i>
TW	<i>[Signature]</i>
PM	<i>[Signature]</i>
DESIGNER	

ORIGINATOR

FROM RAY HIMBEAULT

DEPT LAB.

DATE APRIL 9, 2012.

UPON COMPLETION

UPON COMPLETION

DESCRIPTION OF CHANGE

DOCUMENT UPDATE/CORRECTION

PROGRAM UPDATE/CORRECTION

- CHANGE C2 & C3 TO 22N / 250V (5840)

REASON FOR CHANGE

- TO PREVENT PREMATURE SHUTDOWN AT LOW FREQUENCIES.

Update units coming in for SERVICE?

Will a model or prototype be needed? YES NO

Update FINISHED units in warehouse?

Will the current test fixtures be affected? YES NO

UPDATE WIP?

If yes, what is the estimated cost of fixture?

Electrical compliance affected?

Before serial number

By doing this change, are units currently out in field compatible?

YES NO MAYBE

PART	DESCRIPTION	OLD	NEW	D	M	A	COST/UNIT	TOTAL

PO PRIORITY Priority will be given to these PC's and will be implemented by the date required.

XO X-JOB These PC's will be collected and implemented in the future when or if other PCs are being executed for the product.

NO NORM These PC's will be collected and processed normally, executed when time and manpower permits.

TO TEMP Temporary changes will be made for the stated run only!

NOTICE: ORIGINAL PCs MUST NOT GO OUT INTO PRODUCTION

Carl L.

James

Henry

Andrew

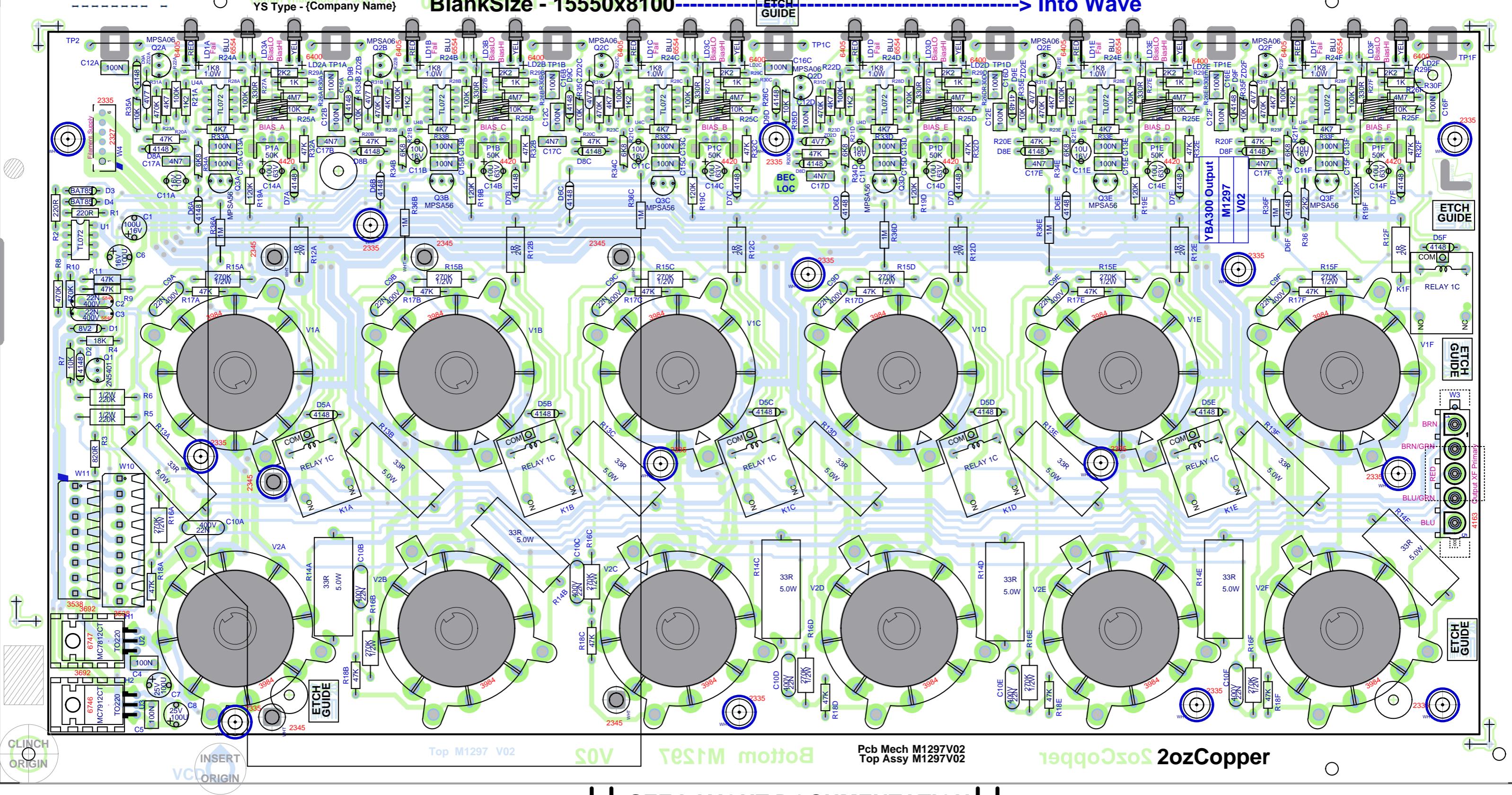
George

Pete

Afshin

Peter

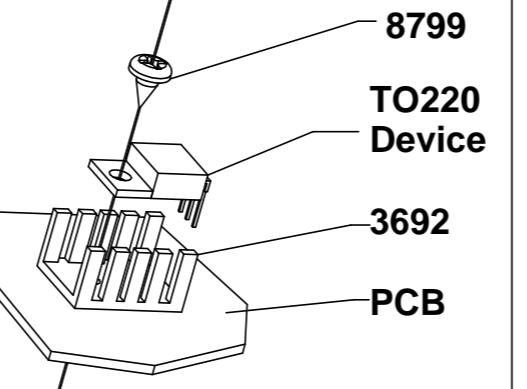
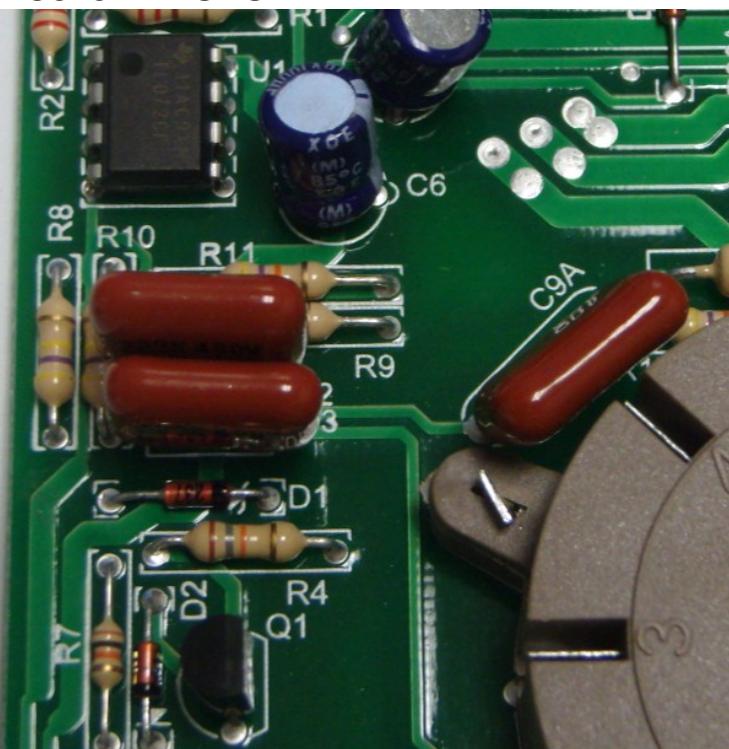
BlankSize - 15550x8100



M1297 PRODUCTION NOTES

1. Six #2345 spacers mount on top of the board.
2. Put the knobs on all the pots with glue before mounting the pcb.
3. C2, C3 #5840 are manual insert. See picture PC8437.

PC8437 PHOTO



SEE LAYOUT DIAGRAM

M1297 PCB History

MODEL(S):- YBA300			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	Aug 09	1.00P0	First Prototype
2	2010/01/20	1.00p1	Complete re-design. Bias moved to back.
3	2010/02/22	1.00p2	Added R36 to standby bus.
4	2010/09/03		Split screen net into +&-. Added header for X-F. Tweak bias.
5	2010/09/23	1.00	Changed #4646 to 650 pattern.
6	2010/12/10		Chg R33A-F from 10k to 4k7. Final proto building 50pcs.
7	2011/01/25	2.00	PC8214: Add R36A-F, C17A-F. Move BEC_LOC and VCD. GG
8	12-JUN-2012	V02	PC8437: CHANGE C2, C3 TO #5840 22N 250V GG
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N
1	D	V	N
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
11	D	V	N
12	D	V	N
13	D	V	N

M1297 Drilling History

MODEL(S):- YBA300			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N

M1297 PENDING CHANGES

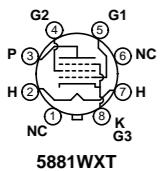
MODEL(S):- YBA300		
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

***PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY**

M1297 Potlist				
MODEL(S):- YBA300				
REF	FUNCTION	PART#	KNOB	{NEW}
P1A	BIASA	4420	K	N
P1B	BIASB	4420	K	N
P1C	BIASC	4420	K	N
P1D	BIASD	4420	K	N
P1E	BIASE	4420	K	N
P1F	BIASF	4420	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N

LEAD/PIN REFERENCE

2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63



E B C
TO-92

MAKE A NEW COPY EVERYTIME. CHANGES ARE BEING MADE ALL THE TIME



PROPOSAL FOR CHANGE

REJECTED The Proposal for Change has been reviewed and considered but will *not* be implemented.

DATE

PRIORITY	NORM	X-JOB	PC No.	8437	TEMP TO
P	N	O	X		
DATE REQUIRED:					

PCBSA #57

Wiring #55

T&R #70

WACM #52

P/Engineering #25

Sales #10

PCBM #58

Metal Fab #50

Finishing #65

Board & Test #53

LAB #20

Service #09

Auto Insertion #59

W/Shop #60

Chas Screening #51

QC #65

MODEL	PCB/CHAS	VERSION	TASK ORDER
YBA 300	m1291		

SL	<i>[Signature]</i>
BW	<i>[Signature]</i>
TW	<i>[Signature]</i>
PM	<i>[Signature]</i>
DESIGNER	

ORIGINATOR

FROM RAY HIMBEAULT

DEPT LAB.

DATE APRIL 9, 2012.

UPON COMPLETION

UPON COMPLETION

DESCRIPTION OF CHANGE

DOCUMENT UPDATE/CORRECTION

PROGRAM UPDATE/CORRECTION

- CHANGE C2 & C3 TO 22N/250V (5840)

REASON FOR CHANGE

- TO PREVENT PREMATURE SHUTDOWN AT LOW FREQUENCIES.

Update units coming in for SERVICE?

Will a model or prototype be needed? YES NO

Update FINISHED units in warehouse?

Will the current test fixtures be affected? YES NO

UPDATE WIP?

If yes, what is the estimated cost of fixture?

Electrical compliance affected?

Before serial number

By doing this change, are units currently out in field compatible?

YES NO MAYBE

PART	DESCRIPTION	OLD	NEW	D	M	A	COST/UNIT	TOTAL

PO PRIORITY Priority will be given to these PC's and will be implemented by the date required.

XO X-JOB These PC's will be collected and implemented in the future when or if other PCs are being executed for the product.

NO NORM These PC's will be collected and processed normally, executed when time and manpower permits.

TO TEMP Temporary changes will be made for the stated run only!

NOTICE: ORIGINAL PCs MUST NOT GO OUT INTO PRODUCTION

Carl L.

James

Henry

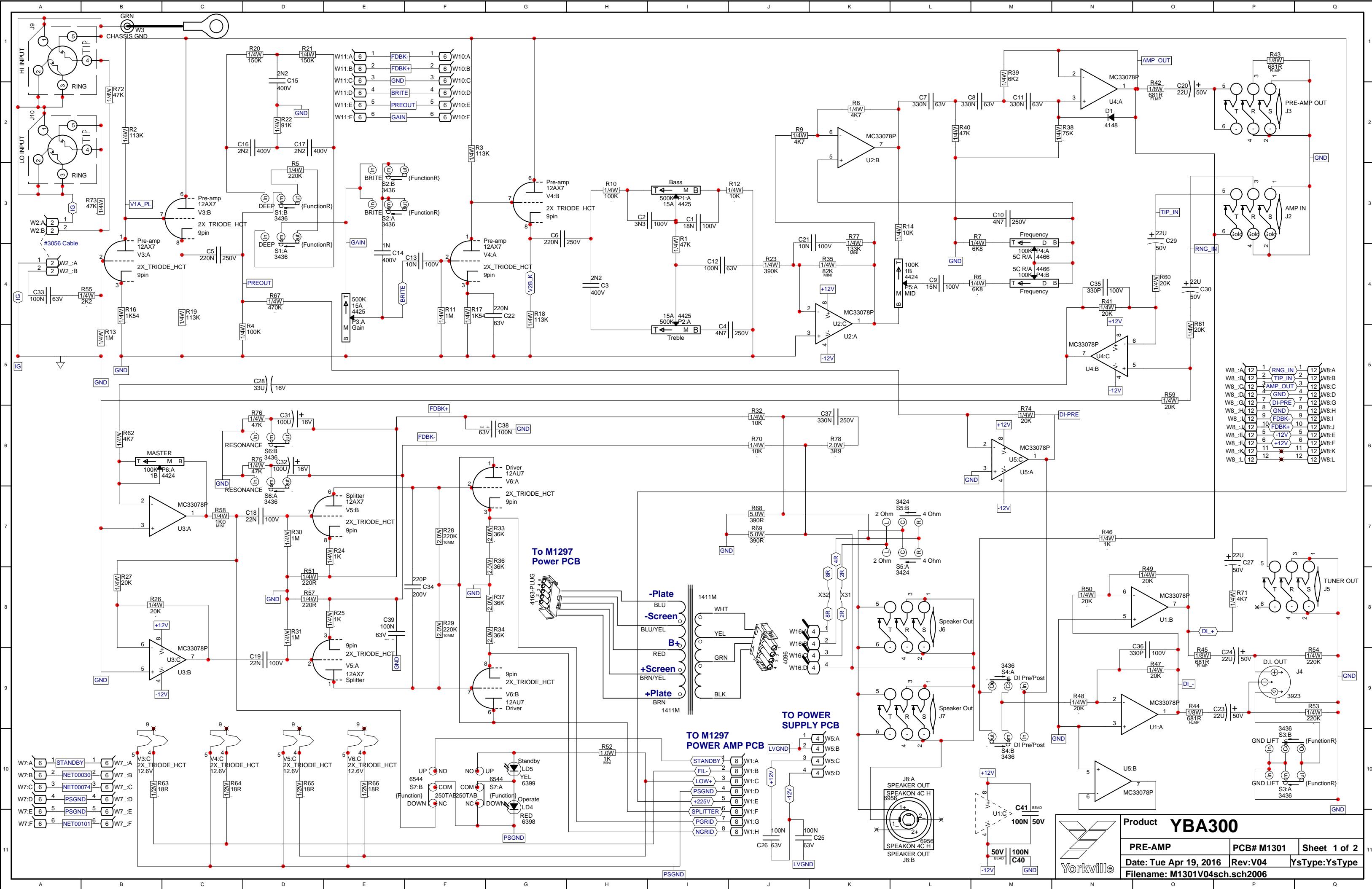
Adel

George

Pete

Afshin

Peter



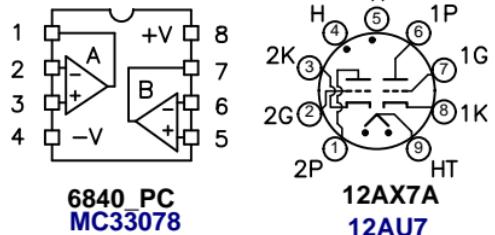
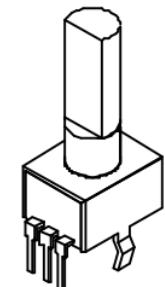
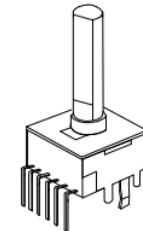
M1301.PCB_DATABASE_HISTORY

MODEL(S):- YBA300

#	DATE	VER#	DESCRIPTION OF CHANGE
1	2010/02/02	1.00p1	All new layout.
2	2010/09/10	1.00p2	Value changes for sound tweaks. Change x-f to connector. Add shield to switch pcb. Move DI switch to back.
3	.	1.00p3	Change input link to #2345 connectors with 3056 cable. Moved some XH connectors to make them accessible
4	.	1.00	Final proto and first run build.
5	2011/01/05	.	Deleted 'Polarized' attribute from C22
6	2011/04/06	2.00	Revised per PC# 8247
7	.	.	Added two 100N caps C38 and C39
8	12-JULY-2011	V03	PC8294: Add W3 and GRN wire to chassis. GG
9	.	.	PC8303: USE ONLY MC33078 FOR #6840 GG
10	12-OCT-2011	.	PC8472: Add C40, C41. Double sided No eyelets
11	19-APR-2016	V04	
12	D	V	
13	D	N	

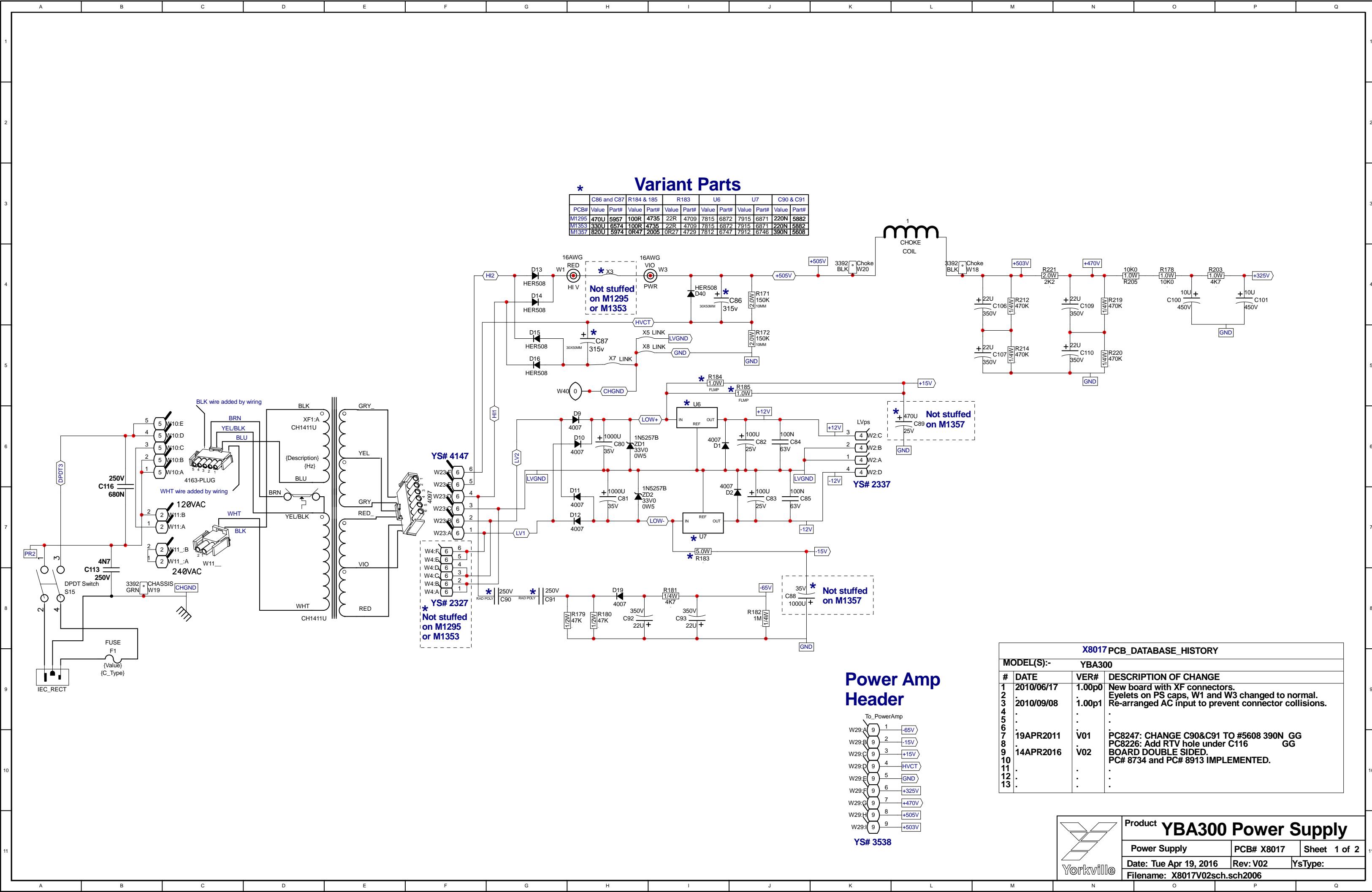
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

M1301 POTLIST				
MODEL(S):- YBA300				
REF	FUNCTION	PART#	KNOB	{NEW}
P3	GAIN	4425	8430	N
P1	BASS	4424	8430	N
P5	MID	4424	8430	N
P4	FREQ	4466	8430	N
P2	TREBLE	4424	8430	N
P6	MASTER	4424	8430	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



Product YBA300		
NOTES	PCB# M1301	Sheet 2 of 2
Date: Tue Apr 19, 2016	Rev:V04	YsType:YsType
Filename: M1301V04sch.sch2006		

I J K L M N O P Q



StepAndRepeat - X3@5.125Y2@4.050

M1357 V02 YBA300

SCORE

BlankSize - 16250x9050

This schematic diagram illustrates the complex circuitry of a power amplifier. It includes a power supply section with AC input terminals (W10, W11, W20 BLK) and filament connections (W23, W24, W25). The circuit features two MC7812CT and MC7912CT integrated circuits. Various power components like HER508 6888, 5958, and 5959 are used throughout. Key labels include 'Filaments', 'XF_Sec', 'CHASSIS GRN', 'AC Input', 'W10', 'W11', 'W20 BLK', 'Choke', 'W3 VIO PWR 16AWG', 'W18 BLK', 'W29', 'To_PowerAmp', and 'X8017 V02'. A 'Yorkville' logo is located in the bottom right corner.

The logo consists of the word "CLINCH" in large black letters at the top and "ORIGIN" in large black letters at the bottom. A green circle surrounds the text. A black crosshair graphic is overlaid on the logo.

score

VCD

**INSERT
ORIGIN**

X8017V02

**YBA300
YCS50/50H
YCS90**

SCORE



SEE LAYOUT DIAGRAM



X8017 PRODUCTION NOTES (M1295 / M1353 / M1357

1..DO NOT STUFF C88 AND C89 FOR M1357.

2. B.A. Variant parts:

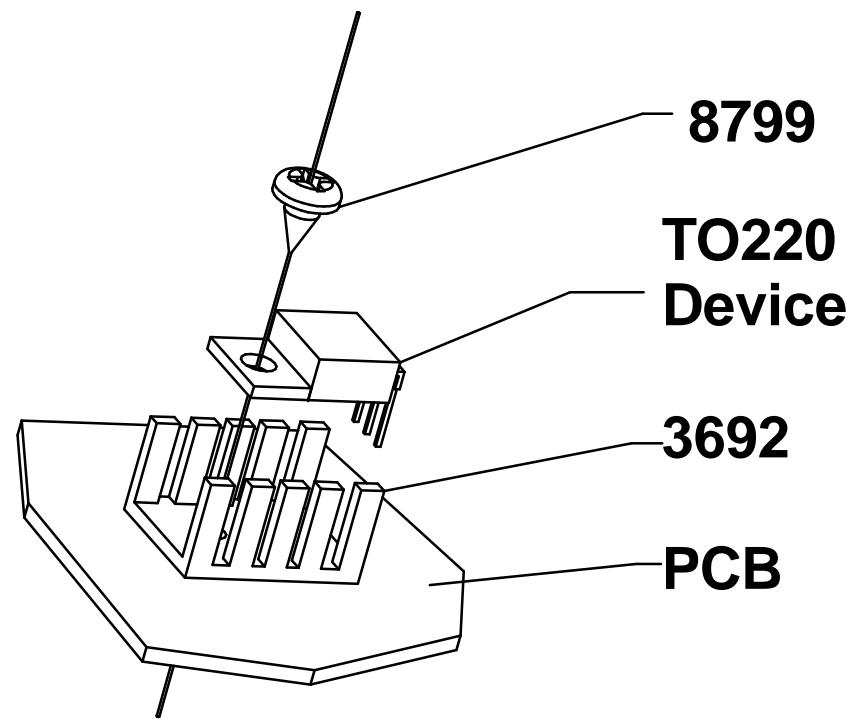
BOARD	C86	C87
M1295	#5957, 470U	#5957, 470U
M1353	#6574, 330U	#6574, 330U
M1357	#5974, 820U	#5974, 820U

BOARD	C88	C89	BOARD	C90 & C91
M1295	#5635, 1000U	#5618, 470U	M1295	#5882, 220N
M1353	#5635, 1000U	#5618, 470U	M1353	#5882, 220N
M1357	DNS	DNS	M1357	#5608, 390N

BOARD	R183	R184	R185	X3
M1295	#4709, 22R	#4735, 100R	#4735, 100R	DNS
M1353	#4709, 22R	#4735 100R	#4735, 100R	DNS
M1357	#4729, 0R27	#2005, 0R47	#2005, 0R47	4599

BOARD	U6	U7
M1295	#6872 MC7815CT	#6871 MC7915CT
M1353	#6872 MC7815CT	#6871 MC7915CT
M1357	#6747 MC7812CT	#6746 MC7912CT

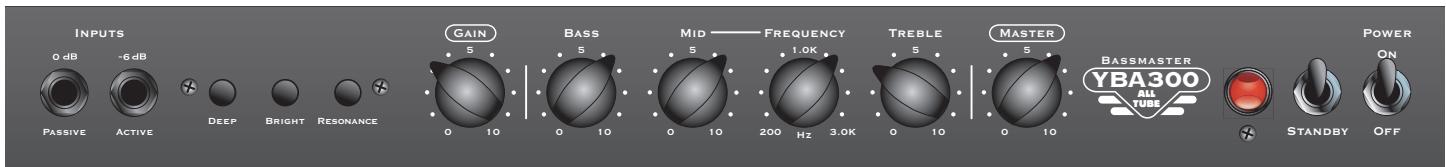
TO220+3692+8799-MTG



X8017PCB_DATABASE_HISTORY

MODEL(S):-		YBA300	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	2010/06/17	1.00p0	New board with XF connectors.
2	D	.	Eyelets on PS caps, W1 and W3 changed to normal.
3	2010/09/08	1.00p1	Re-arranged AC input to prevent connector collisions.
4	.	.	.
5	.	.	.
6	.	.	.
7	19APR2011	V01	PC8247: CHANGE C90&C91 TO #5608 390N GG
8	.	.	PC8226: Add RTV hole under C116 GG
9	14APR2016	V02	BOARD DOUBLE SIDED. PC# 8734 and PC# 8913 IMPLEMENTED.
10	.	.	.
11	.	.	.
12	.	.	.
13	.	.	.

BASSMASTER
YBA100•YBA300
ALL TUBE



Note: Before powering up and disengaging the Standby switch make sure speaker cabinets are connected to the output jacks.

Power & Standby - To allow the tubes to warm up, the YBA amp should be powered up in Standby mode for a few minutes prior to use. The pilot light glows red when the amp is engaged and glows amber when in Standby mode.

Note: It's recommended to leave the amplifier powered up and in standby mode during set breaks.

Active Input Jacks - The 0dB/Passive input feeds the tube input-stage directly while the -6dB/Active input applies a pad. The -6dB input is typically used for basses with active pickups or alternatively ones with hot levels.

Deep Switch - The Deep switch helps accentuate deep bass and treble frequencies.

Bright Switch - The Bright switch provides a small amount of treble boost for added presence. The effect is more pronounced at lower gain settings.

Resonance Switch - Placed in the output stage of the power amplifier, the Resonance Switch selects the amount of LF damping. Engaging the switch reduces the damping factor and allows the resonance of the speaker cabinet to be more pronounced.

Tip: In the out position the damping factor will be increased and produce a tighter sound.

Gain Control - The Gain control, used in conjunction with the Master, help control feel and grit. This allows the capability of a warm more saturated tube sound when turned up.

3-Band EQ & Frequency Control - These YBA amps feature vintage passive Bass and Treble controls with a Frequency adjustable Mid control.

Master Volume - The Master control adjusts the overall output level of the amplifier. The signal sent to the Balanced Line Output is not affected allowing the signal that output to be unaffected by adjustments.

Effects Loop (Pre-Amp Out & Power Amp In) - The Effects Send jack (Pre-Amp Out) can be used as an effects send or to slave another YBA amp. The Effects Return (Power Amp Input jack) goes directly to the power amp, allowing the YBA amp to be a true slave.

Line Out XLR, Selector & Ground Lift Switches - YBA amps are equipped with balanced D.I./Line outputs. You can select a direct, clean signal or tap the signal after the pre-amp (Post-EQ). Both signals are routed to the Balanced Line Out before the Master volume. A Ground Lift is also provided.

Tuner Output - A 1/4-inch Tuner Output jack enable direct connection with a tuner without affecting the signal.

Speaker Impedance Switch & Speaker Output Jacks - Speaker cabinets are connected using the Speaker 1/4-inch output jacks or the "Speakon" connector, these jacks are in parallel. Using the Speaker Load switch, the output of the YBA amp can be optimized to the rated full power for selected loads, 8 or 4 ohms on the YBA100 and 4 or 2-ohms on the YBA300.



To get the full Owner's Manual please visit our website at

<http://www.yorkville.com/manuals/> or, if you need a printed version call 905-837-8777

**REAL Gear.
REAL People.**



Canada
 Voice: (905) 837-8481
 Fax: (905) 837-8746

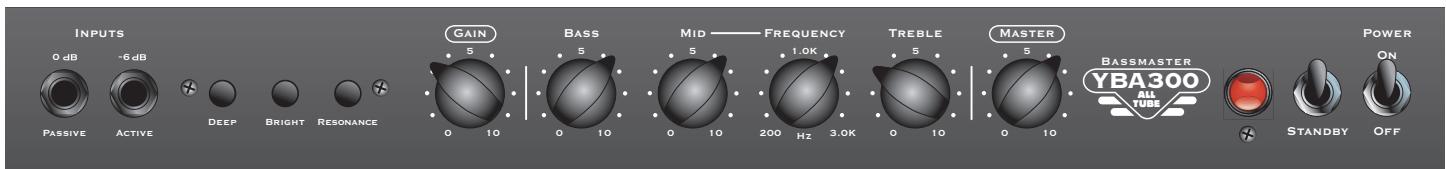
U.S.A.
 Voice: (716) 297-2920
 Fax: (716) 297-3689

www.yorkville.com

Yorkville Sound
 550 Granite Court
 Pickering, Ontario
 L1W-3Y8 CANADA

Yorkville Sound Inc.
 4625 Witmer Industrial Estate
 Niagara Falls, New York
 14305 USA

BASSMASTER
YBA100•YBA300
ALL TUBE



Remarque: avant de mettre l'ampli sous tension et de désactiver le commutateur Standby, assurez-vous que les enceintes à haut-parleur sont connectées aux prises de sortie.

Alimentation et Standby - Pour permettre aux lampes de se réchauffer, l'ampli YBA doit être mis sous tension en mode Standby pendant quelques minutes avant son utilisation. Le témoin lumineux s'allume en rouge lorsque l'amplificateur est engagé ; il est de couleur ambré lorsqu'en mode Standby.

Remarque: Il est recommandé de laisser l'amplificateur sous tension et en mode Standby pendant les pauses.

Prises d'Entrée Passives et Actives - L'entrée 0dB/Passive alimente directement le premier étage d'entrée à lampes tandis que l'entrée -6dB/Active applique un atténuateur. L'entrée -6dB est généralement utilisée pour les guitares basses qui ont des micros actifs ou qui ont des niveaux de sortie très élevés.

Commutateur Deep - Le commutateur Deep aide à accentuer les fréquences graves et aiguës.

Commutateur Bright - Le commutateur Bright permet d'augmenter légèrement les aigus pour une présence accrue. L'effet est plus prononcé avec des réglages de gain plus faibles.

Commutateur Resonance - Placé dans l'étage de sortie de l'amplificateur de puissance, le commutateur de résonance sélectionne la quantité d'amortissement des basses fréquences. Enfoncer l'interrupteur a pour effet de réduire le facteur d'amortissement et permet à la résonance de l'enceinte d'être plus prononcée.

Conseil: Désactiver l'interrupteur a pour effet d'augmenter le facteur d'amortissement et produira un son plus serré.

Commande de Gain - La commande de gain, utilisée en conjonction avec la commande de volume principal, aide à obtenir le son et la sensation désirée. Cette commande

permet d'obtenir un son de lampes plus chaud et plus saturé lorsqu'elle est réglée à un niveau élevé.

3-Egalisation à 3 Bandes et Commande de Fréquence - Le YBA propose des commandes passives de basses et d'aigus et une commande Mid réglable en fréquence.

Commande Master Volume - La commande Master Volume règle le niveau de sortie global de l'amplificateur. Le niveau acheminé vers la sortie ligne symétrique n'est pas affecté, le signal à cette sortie ligne n'est donc pas affecté par les modifications des réglages.

Boucle d'Effets (sortie préampli et entrée ampli de puissance) - La prise Effects Send (Pre-Amp Out) peut être utilisée comme envoi d'effets ou pour acheminer le signal vers un autre YBA. Le retour d'effets (prise d'entrée de l'ampli de puissance) va directement à l'amplificateur de puissance ce qui permet également au YBA de recevoir le signal provenant d'un autre préampli.

Prise XLR de Sortie Ligne, Sélecteur et Interrupteurs de Levage au Sol - Les amplis YBA sont équipés d'une sortie D.I./Line symétrique. Vous pouvez sélectionner un signal direct et propre ou taper le signal après le préampli (Post-EQ). Les deux signaux sont acheminés vers la sortie ligne symétrique avant le volume principal. Un "Ground Lift" est également fourni.

Sortie Tuner - Le YBA dispose d'une prise de sortie tuner 1/4 de pouce pour permettre une connexion directe avec un tuner sans affecter le signal.

Commutateur d'Impédance de Haut-Parleur et Prises de Sortie de Haut-Parleur - Les enceintes d'extension sont connectées à l'aide des prises de sortie haut-parleur de 1/4 de pouce ou du connecteur « Speakon ». Les connexions à ces prises sont en parallèle. A l'aide du commutateur de charge de haut-parleur, la sortie peut être optimisée pour fournir la pleine puissance nominale pour les charges sélectionnées, 8 ou 4 ohms pour le YBA100 et 4 ou 2-ohms pour le YBA300.



Pour obtenir le manuel de utilisateur visitez notre site Web à <http://www.yorkville.com/manuals/> ou, si vous avez besoin d'une version imprimée appelez-nous au 905-837-8777

**REAL Gear.
REAL People.**



Canada
 Voice: (905) 837-8481
 Fax: (905) 837-8746

U.S.A.
 Voice: (716) 297-2920
 Fax: (716) 297-3689

www.yorkville.com

Yorkville Sound
 550 Granite Court
 Pickering, Ontario
 L1W-3Y8 CANADA

Yorkville Sound Inc.
 4625 Witmer Industrial Estate
 Niagara Falls, New York
 14305 USA



Yorkville Sound

550 Granite Court
Pickering, Ontario
Canada L1W 3Y8

Auto Attend: (905) 837-8550

Fax: (905) 837-8746

www.yorkville.com
