



WEB: www.yorkville.com

WORLD HEADQUARTERS

CANADA

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

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SERVICE MANUAL

YBA300 + YBA100

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



YBA100 A-Z1755R / 1v2

 230V ~ 50Hz 0,8A FUSE: T2,5AL 250V	 120V ~ 60Hz 1.6A FUSE: T3.15AL 250V
--	---

DISCONNECT POWER
WHEN REPLACING
TUBES. USE MATCHED
TUBE PAIRS ONLY!

LOW HIGH
PROTECT BIAS

A

NOTE: All 'Protect' and 'Low' LEDs are
illuminated when the unit is in standby mode.

NO USER SERVICEABLE PARTS INSIDE.

NE CONTIENT AUCUNE PIECE
REPARABLE PAR L'UTILISATEUR.

LOW HIGH
PROTECT BIAS

B

ATTENTION: When replacing tube pairs, or as tubes age,
the bias will require adjustment. The blue LED indicates the
setting is too low, the amber LED that the setting is too
high. Rotate the control until it is halfway between the
points where the LEDs come on.

An illuminated red LED indicates that the corresponding tube
pair has gone into Protect mode. That tube pair should be
replaced. The unit will continue to operate with a failed pair.

CAUTION: REPLACE FUSE WITH
THE SAME TYPE AND RATING

DÉBRANCHÉ L'APPAREIL AVANT DE REMPLACER
LES LAMPES. UTILISEZ SEULEMENT DES LAMPES EN PARIÉS!

ATTENTION: REMPLACER
LE FUSIBLE DU MÊME TYPE ET
DU MÊME COURANT NOMINAL

CAUTION • AVIS
RISK OF ELECTRIC SHOCK
DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR

YORKVILLE

Traynor
QUALITY & INNOVATION
ESTABLISHED 1963

DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA

EFFECTS LOOP D.I. EQ OUT GROUND

SEND RETURN PRE LIFT TUNER

POST GND

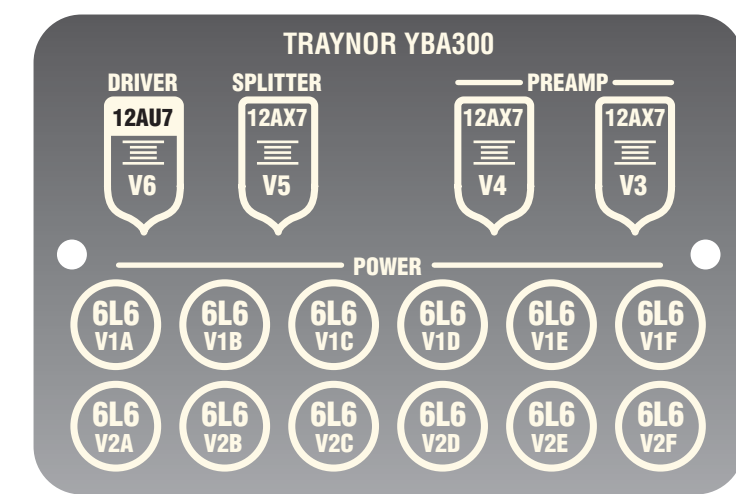
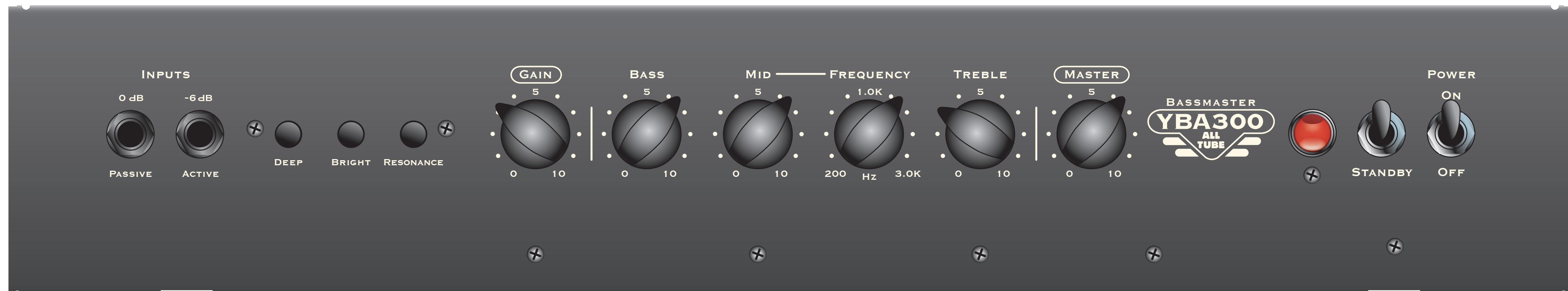
EFFECTS **D.I. / LINE OUT**

IMPEDANCE
8Ω 4Ω

Speaker Load
with ALL Speakers
Connected

SPEAKER OUTPUT

ATTENTION:
Before powering,
make sure speakers
are connected!



Specifications

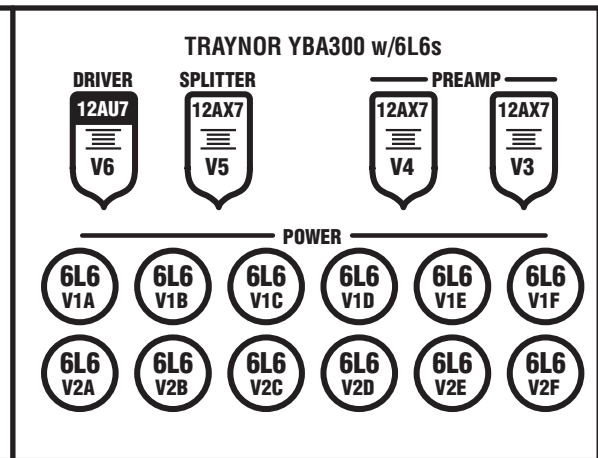
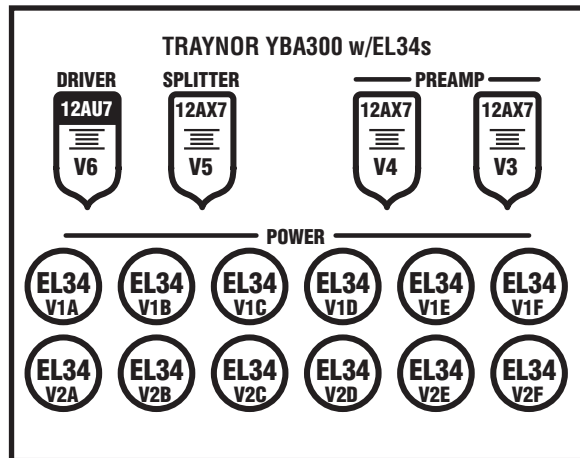
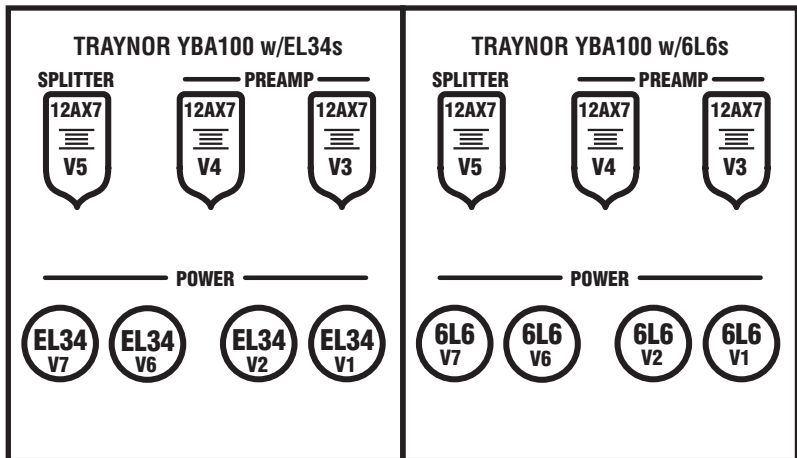
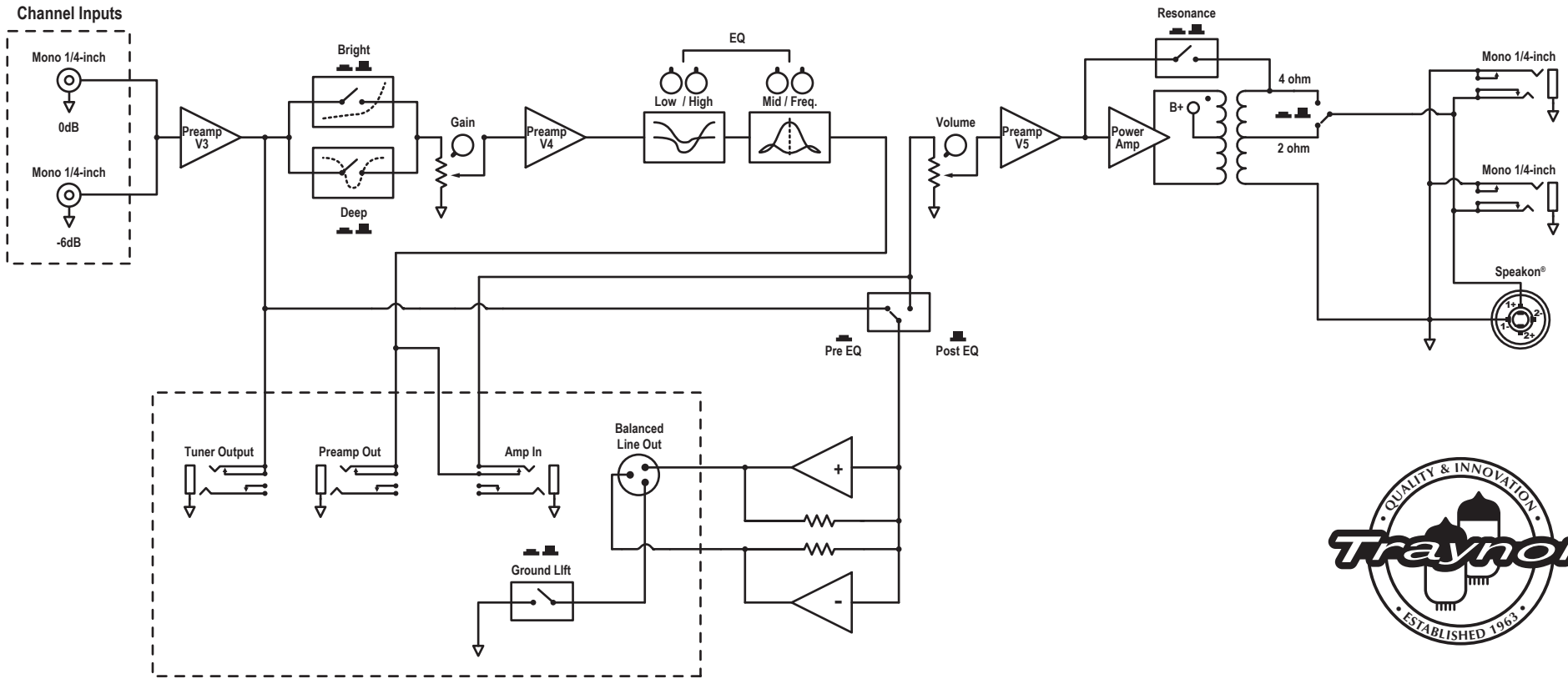
Type	All Tube Bass Head
Power @ min. impedance (watts)	YBA100: 100 @ 4/8 ohms, switchable YBA300: 300 @ 2/4 ohms, switchable
Minimum Impedance (ohms)	YBA100: 4 YBA300: 2
Burst Power - 2 cycle	YBA100: 150 watts YBA300: 400 watts
Frequency Response (Hz +/-3dB)	30 - 16,000
Hum and Noise (dB)	-90db
Input 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 a 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, Commutaters 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/Standby
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

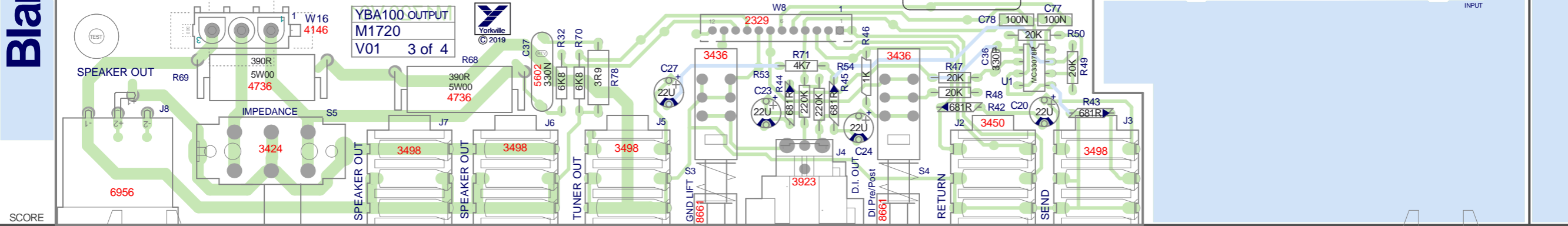
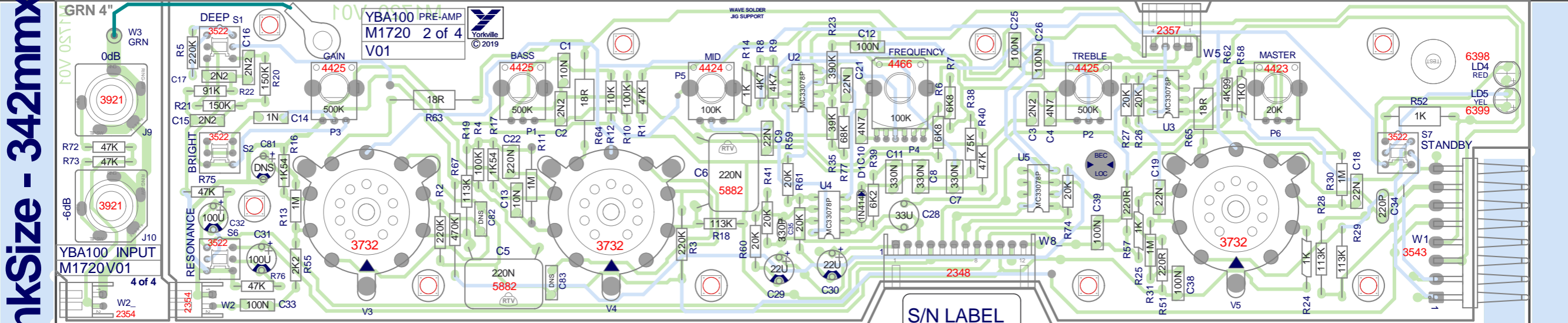
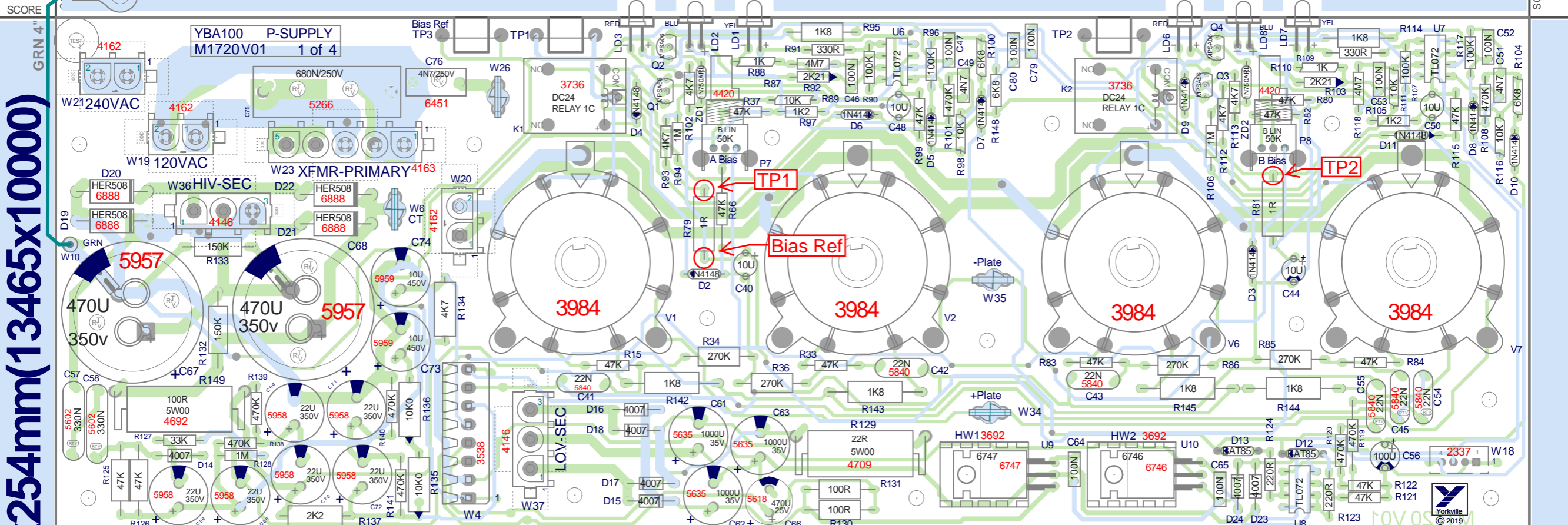


M1397 Parts Reference List 3/5/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
C80	5635	1000U 35V 20%CAP BLK RADIAL ELECT						
C81	5635	1000U 35V 20%CAP BLK RADIAL ELECT						
C82	5267	100U 25V 20%CAP T&R RAD .2EL						
C83	5267	100U 25V 20%CAP T&R RAD .2EL						
C84	5212	100N 100V 5%CAP T&R RAD .2FLM						
C85	5212	100N 100V 5%CAP T&R RAD .2FLM						
C86	5974	820U 315V 20%CAP BLK 30X50 EL						
C87	5974	820U 315V 20%CAP BLK 30X50 EL						
C90	5608	390N 250VDC 10%CAPBLK RAD POLY FLM						
C91	5608	390N 250VDC 10%CAPBLK RAD POLY FLM						
C92	5958	22U 350V 20%CAP BLK 13X25 EL						
C93	5958	22U 350V 20%CAP BLK 13X25 EL						
C100	5959	10U 450V 20%CAP BLK EL						
C101	5959	10U 450V 20%CAP BLK EL						
C106	5958	22U 350V 20%CAP BLK 13X25 EL						
C107	5958	22U 350V 20%CAP BLK 13X25 EL						
C109	5958	22U 350V 20%CAP BLK 13X25 EL						
C110	5958	22U 350V 20%CAP BLK 13X25 EL						
C113	6451	.4N7 250V 20%CAP BLK 'Y' 10MM AC						
C116	5266	680N 250V 20%CAP BLK 'X2' 27MM AC						
D1	6438	1N4007 1000V 1A0 DIODE T&R						
D2	6438	1N4007 1000V 1A0 DIODE T&R						
D9	6438	1N4007 1000V 1A0 DIODE T&R						
D10	6438	1N4007 1000V 1A0 DIODE T&R						
D11	6438	1N4007 1000V 1A0 DIODE T&R						
D12	6438	1N4007 1000V 1A0 DIODE T&R						
D13	6888	HER508 1000V 3A0 DIODE ULTRAFAS						
D14	6888	HER508 1000V 3A0 DIODE ULTRAFAS						
D15	6888	HER508 1000V 3A0 DIODE ULTRAFAS						
D16	6888	HER508 1000V 3A0 DIODE ULTRAFAS						
D19	6438	1N4007 1000V 1A0 DIODE T&R						
D40	6888	HER508 1000V 3A0 DIODE ULTRAFAS						
H1	3692	HEATSINK TO-220 W/O TAB BLK ANODIZE						
H2	3692	HEATSINK TO-220 W/O TAB BLK ANODIZE						
R171	4790	2W00 150K 5%10MM BODY T&R RES						
R172	4790	2W00 150K 5%10MM BODY T&R RES						
R178	5031	1W00 10K0 5% T&R RES						
R179	4634	W500 47K 5% T&R RES						
R180	4634	W500 47K 5% T&R RES						
R181	4827	W250 4K7 5% T&R RES						
R182	4844	W250 1M 5% T&R RES						
R183	4729	5W00 0R27 5% BLK RES						
R184	2005	1W00 0R47 5%FLAME PROOF T&R RES						
R185	2005	1W00 0R47 5%FLAME PROOF T&R RES						
R203	4681	1W00 4K7 5% T&R RES						
R205	5031	1W00 10K0 5% T&R RES						
R212	4843	W250 470K 5% T&R RES						
R214	4843	W250 470K 5% T&R RES						
R219	4843	W250 470K 5% T&R RES						
R220	4843	W250 470K 5% T&R RES						
R221	4705	2W00 2K2 5% T&R RES						
U6	6747	MC7812CT TO220 P 12V0 REG V1						
U7	6746	MC7912CT TO220 N 12V0 REG V2						
W2	2337	4 CIR XH-HEADER 0.098IN						
W4	2327	6 CIR XH-HEADER 0.098IN						
W10	4163	5 PIN POWER PIN HEADER MALE POLZED						
W11	4162	2 PIN POWER PIN HEADER MALE POLZED						
W11	4162	2 PIN POWER PIN HEADER MALE POLZED						
W18	3392	250 MALE TAB .2IN T&R						
W19	3392	250 MALE TAB .2IN T&R						
W20	3392	250 MALE TAB .2IN T&R						
W23	4147	6 PIN POWER PIN HEADER MALE POLZED						
W29	3538	24 PIN BREAKAWAY LOCK .156						
X3	4599	22AWG SOLID SC WIR T&R JMP						
X1357	4599	22AWG SOLID SC WIR T&R JMP						
ZD1	6433	1N5257B 33V0 0W5 ZENER 5% T&R						
ZD2	6433	1N5257B 33V0 0W5 ZENER 5% T&R						

BlankSize - 342mmx254mm(13465x10000)

Into Wave



M1720 V01 YBA100

SCORE
CLINCH
ORIGIN
VCD

79mil (2mm) Rad-4 PLACES

SCORE

SCORE

PCB ASSEMBLY DOCUMENTATION

PCB HARDWARE

SPECIAL PRODUCTION NOTES

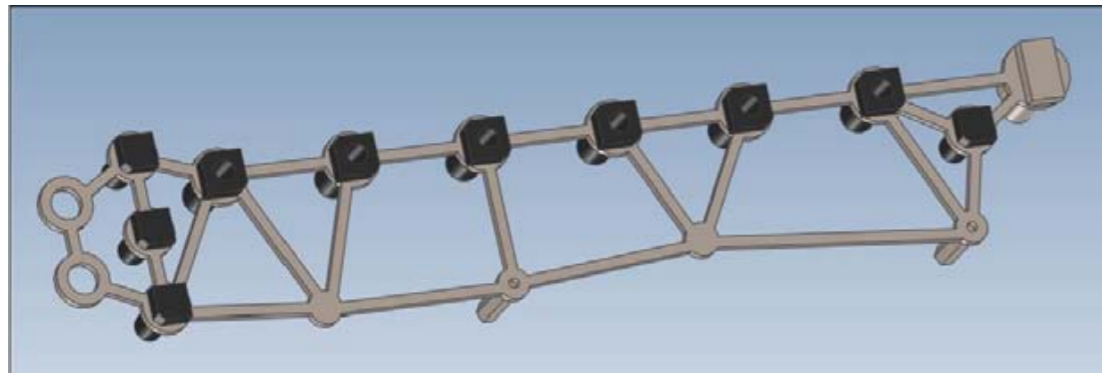
1_ BEND FLAT C5,C6 AND RTV.

2_ ADD RTV TO ALL CAPS.

3_ MOUNT U9 and U10 TO PCB WITH #3692 HEATSINK.

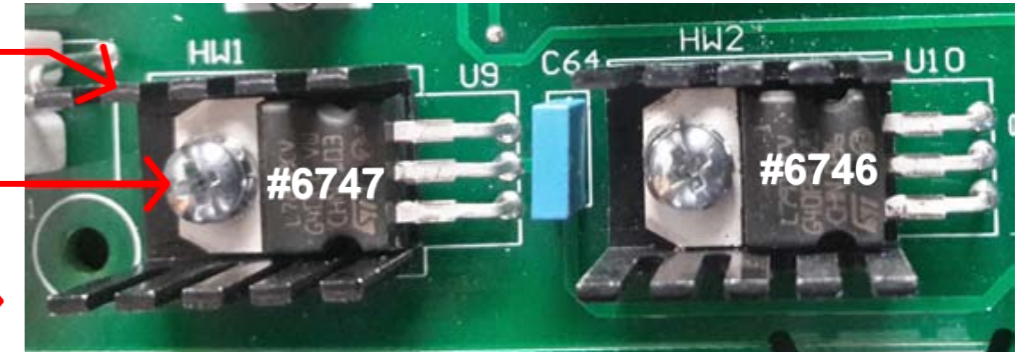
4_ INSERT #8663 NYLON SPACER TO #9921 KNOB AND MOUNT WITH GLUE TO #4420 POTENTIOMETER P7,P8.

5_ USE JIG FOR POTS, SWITCHS AND JACKS BEFORE WAVE SOLDER .



#3692 Heatsink

#9001 Screw



P7 , P8 .

#8661 #3436



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

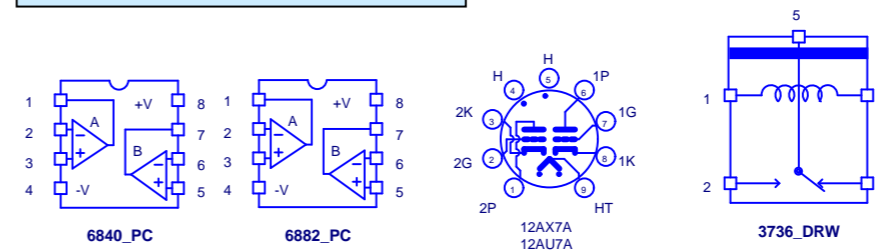
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1
2
3
4
5
6
7
8
9
10
11
12
13

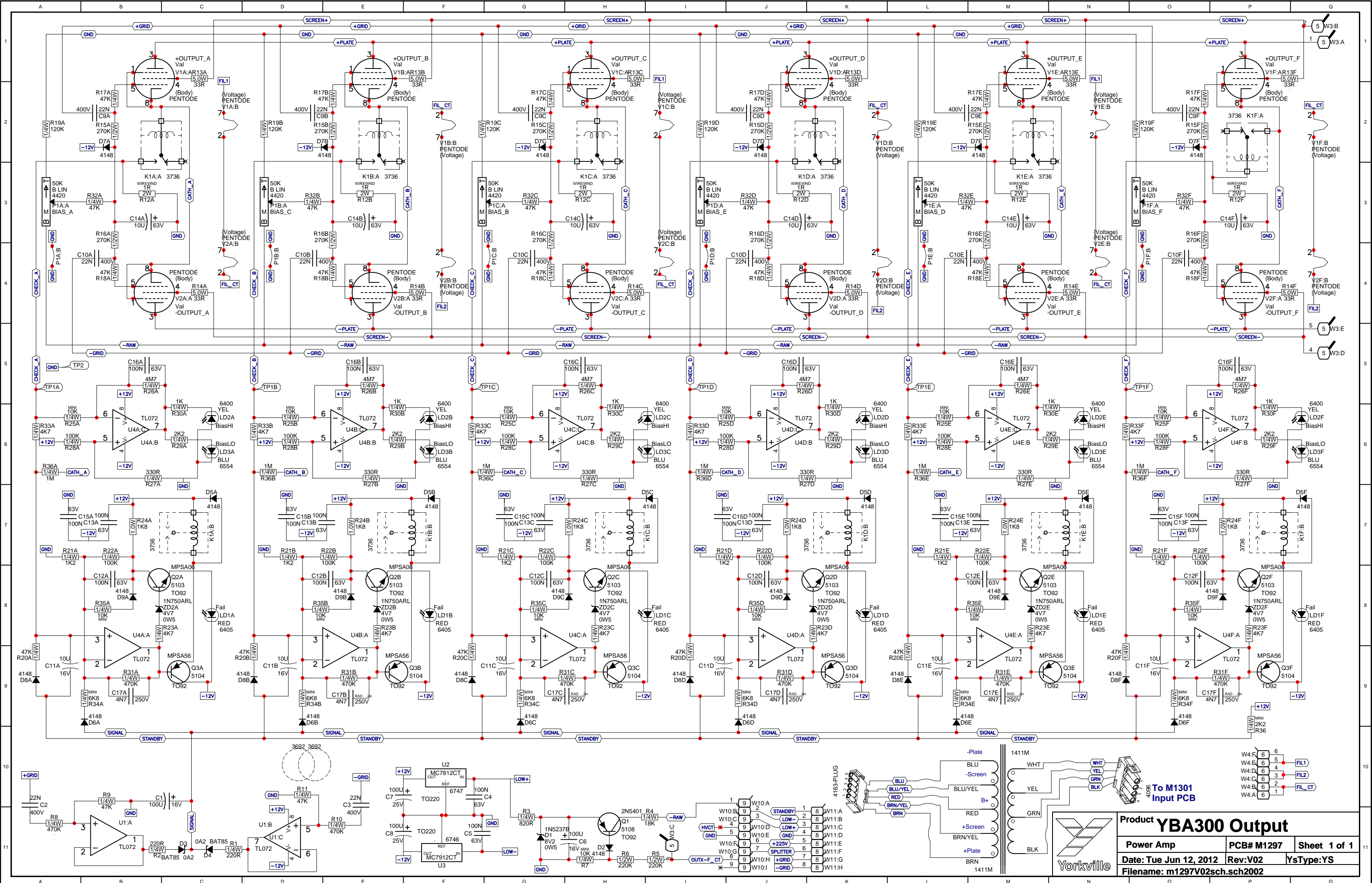
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1
2
3
4
5
6
7
8
9
10
11
12
13

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

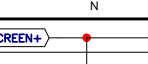
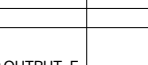
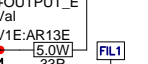
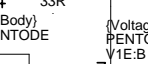
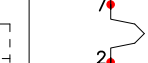
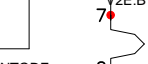
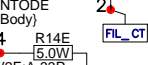
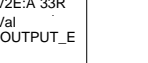
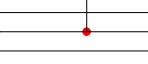
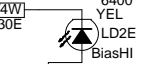
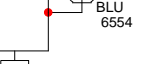
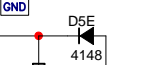
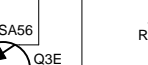
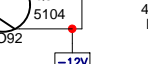
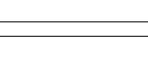
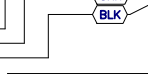
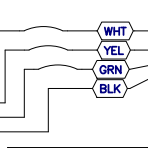
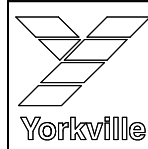
PINOUT DIAGRAMS





Product YBA300 Output

Power Amp	PCB# M1297	Sheet 1 of 1
Date: Tue Jun 12, 2012	Rev: V02	YsType: YS
Filename: m1297V02sch.sch2002		





PROPOSAL FOR CHANGE

PRIORITY	NORM	X-JOB	PC No.	TEMP
P	N	X	8437	T

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

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
YBA300	M1291		

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

ORIGINATOR	
FROM	RAY HEMBEAULT
DEPT	LAB.
DATE	APRIL 9, 2012.
ORIGINATOR'S SIGNATURE	UPON COMPLETION
DESIGNER'S SIGNATURE	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.

<input type="checkbox"/> Update units coming in for SERVICE?	Will a model or prototype be needed? <input type="checkbox"/> YES <input type="checkbox"/> NO
<input type="checkbox"/> Update FINISHED units in warehouse?	Will the current test fixtures be affected? <input type="checkbox"/> YES <input type="checkbox"/> NO
<input checked="" type="checkbox"/> UPDATE WIP?	If yes, what is the estimated cost of fixture? _____
<input type="checkbox"/> Electrical compliance affected?	Before serial number _____
By doing this change, are units currently out in field compatible? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> MAYBE	

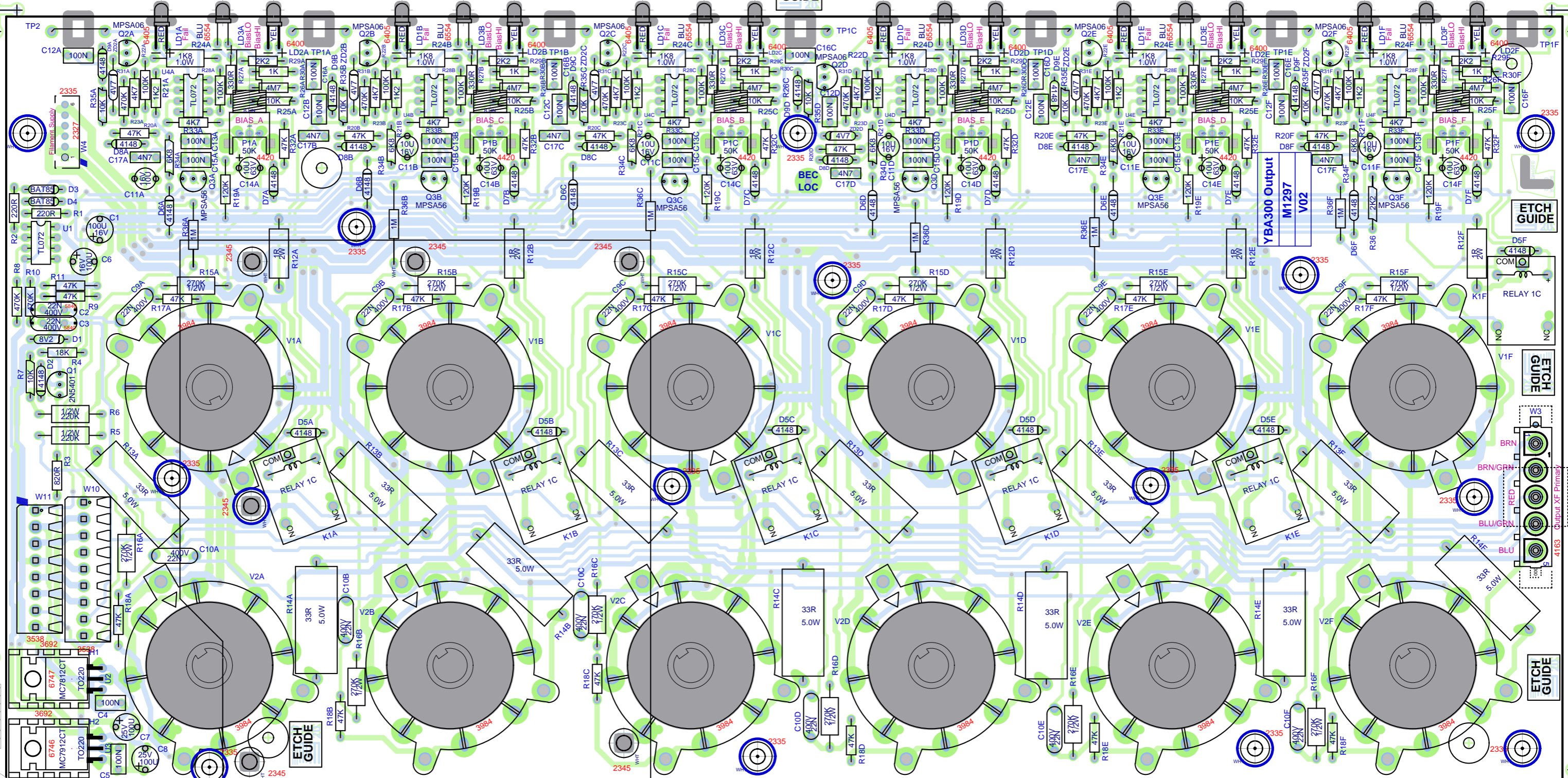
PART	DESCRIPTION	OLD	NEW	D	M	A	COST/UNIT	TOTAL

P PRIORITY Priority will be given to these PC's and will be implemented by the date required.	X X-JOB These PC's will be collected and implemented in the future when or if other PC's are being executed for the product
N NORM These PC's will be collected and processed normally, executed when time and manpower permits.	T TEMP Temporary changes will be made for the stated run only!

Peter Afshin Pete George Andrew Adel Henry James Carl L.

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

NOTICE: ORIGINAL PC'S MUST NOT GO OUT INTO PRODUCTION



Top M1297 V02

Bottom M1297 V02

Pcb Mech M1297V02
Top Assy M1297V02

2ozCopper

SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

M1297 PRODUCTION NOTES

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

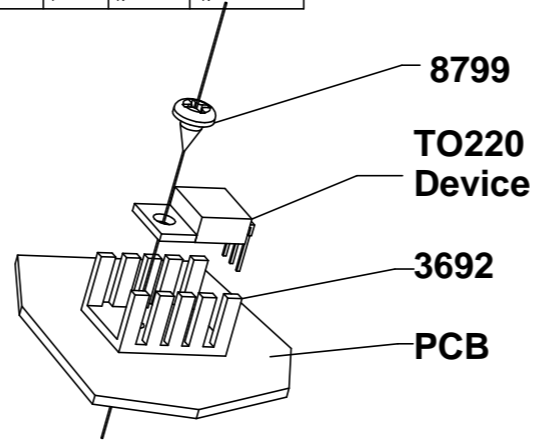
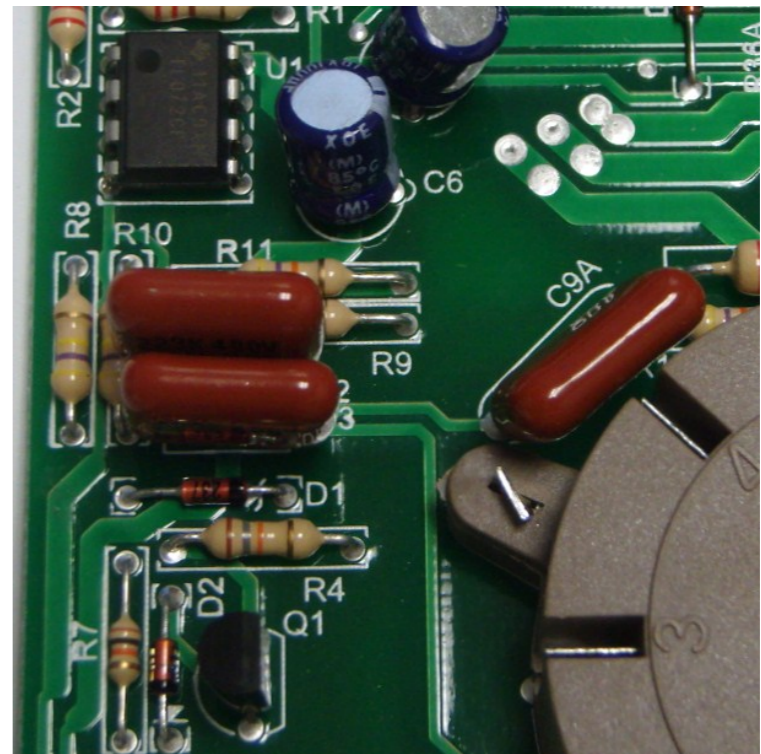
M1297 PENDING CHANGES	
MODEL(S):- YBA300	
#	PC#
1	PC
2	PC
3	PC
4	PC
5	PC
6	PC

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

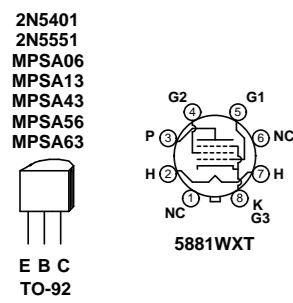
M1297 Potlist				
MODEL(S):- YBA300				
REF	FUNCTION	PART#	KNOB	{NEW}
P1A	BIASA	4420	K	N
P1B	BIASB	4420	K	N
P1C	BIASC	4420	K	N
P1D	BIASD	4420	K	N
P1E	BIASE	4420	K	N
P1F	BIASF	4420	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N

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



LEAD/PIN REFERENCE





PROPOSAL FOR CHANGE

PRIORITY	NORM	X-JOB	PC No.	TEMP
P	N	X	8437	T

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

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
YBA300	m1291		

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

ORIGINATOR	
FROM	RAY HEMBEAULT
DEPT	LAB.
DATE	APRIL 9, 2012.
ORIGINATOR'S SIGNATURE	UPON COMPLETION
DESIGNER'S SIGNATURE	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.

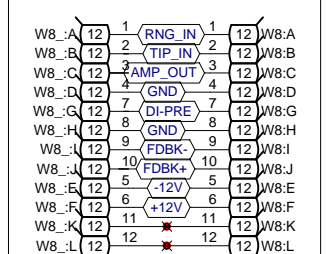
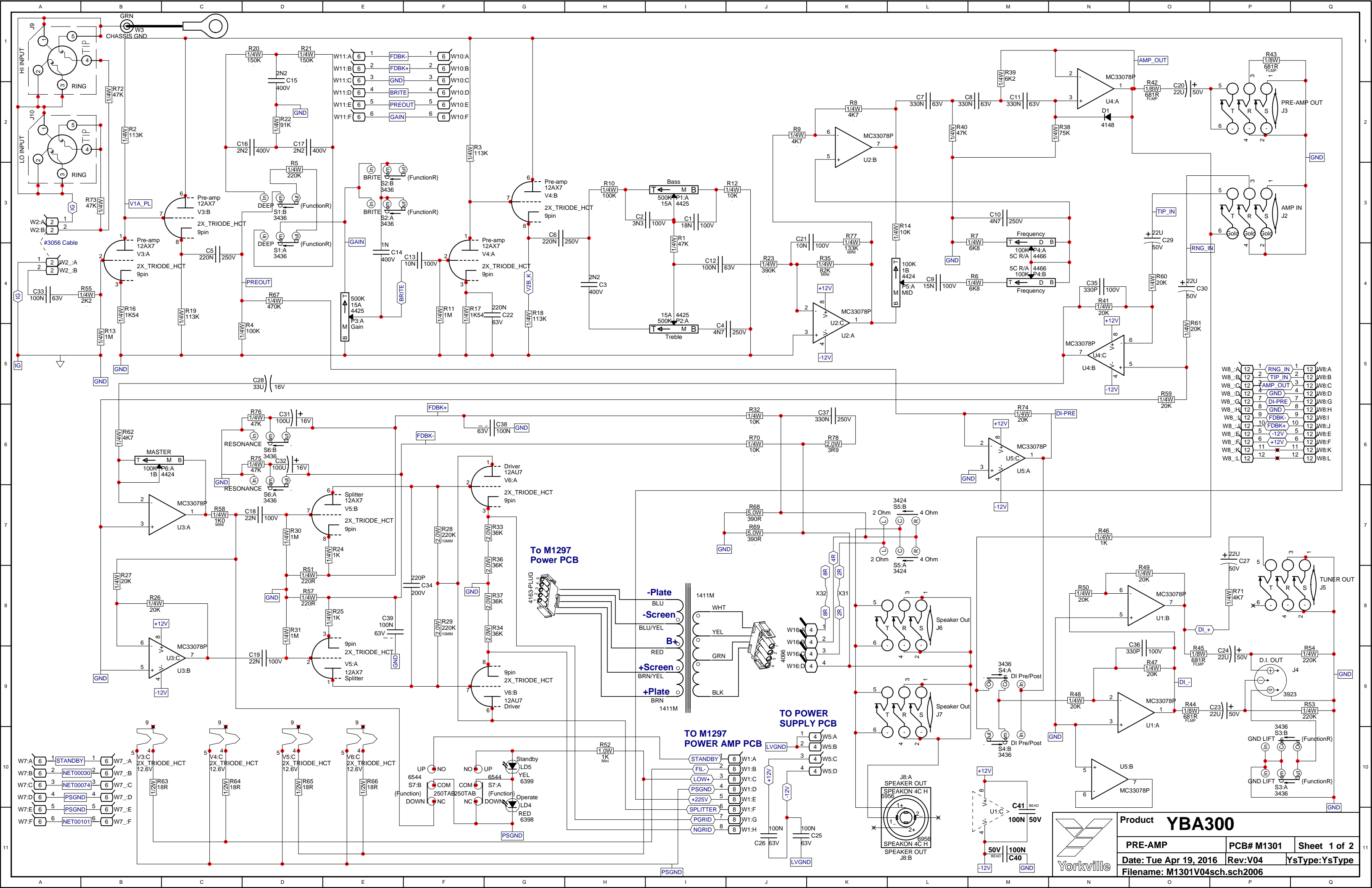
<input type="checkbox"/> Update units coming in for SERVICE?	Will a model or prototype be needed? <input type="checkbox"/> YES <input type="checkbox"/> NO
<input type="checkbox"/> Update FINISHED units in warehouse?	Will the current test fixtures be affected? <input type="checkbox"/> YES <input type="checkbox"/> NO
<input checked="" type="checkbox"/> UPDATE WIP?	If yes, what is the estimated cost of fixture? _____
<input type="checkbox"/> Electrical compliance affected?	Before serial number _____
By doing this change, are units currently out in field compatible? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> MAYBE	

PART	DESCRIPTION	OLD	NEW	D	M	A	COST/UNIT	TOTAL

<input type="checkbox"/> PRIORITY Priority will be given to these PC's and will be implemented by the date required.	<input checked="" type="checkbox"/> X-JOB These PC's will be collected and implemented in the future when or if other PC's are being executed for the product
<input type="checkbox"/> NORM These PC's will be collected and processed normally, executed when time and manpower permits.	<input type="checkbox"/> TEMP Temporary changes will be made for the stated run only!

Carl L. James Henry Adel Andrew George Pete Afshin Peter

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



To M1297 Power PCB

TO POWER SUPPLY PCB

Yorkville

Product **YBA300**

PRE-AMP	PCB# M1301	Sheet 1 of 2
Date: Tue Apr 19, 2016	Rev:V04	YsType:YsType
Filename: M1301V04sch.sch2006		

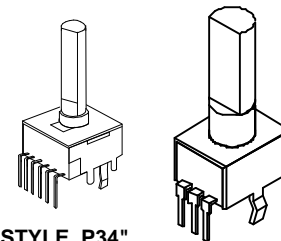
M1301.PCB_DATABASE_HISTORY

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	.	.	.
4	2010/10/13	1.00p3	Change input link to #2345 connectors with 3056 cable. Moved some XH connectors to make them accessible
5	.	.	.
6	2010/12/10	1.00	Final proto and first run build.
7	2011/01/05	.	Deleted 'Polarized' attribute from C22
8	2011/04/06	2.00	Revised per PC# 8247
9	.	.	Added two 100N caps C38 and C39
10	12-JULY-2011	V03	PC8294: Add W3 and GRN wire to chassis. GG
11	12-OCT-2011	.	PC8303: USE ONLY MC33078 FOR #6840 GG
12	19-APR-2016	V04	PC8472: Add C40, C41. Double sided No eyelets
13	D	V	N

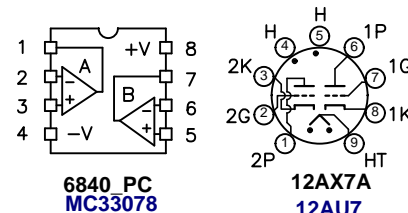
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

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
R	F	P	K	N



"STYLE_P34"

"STYLE_P32"



6840_PC
MC33078

12AX7A
12AU7



Product **YBA300**

NOTES

PCB# M1301

Sheet 2 of 2

Date: Tue Apr 19, 2016

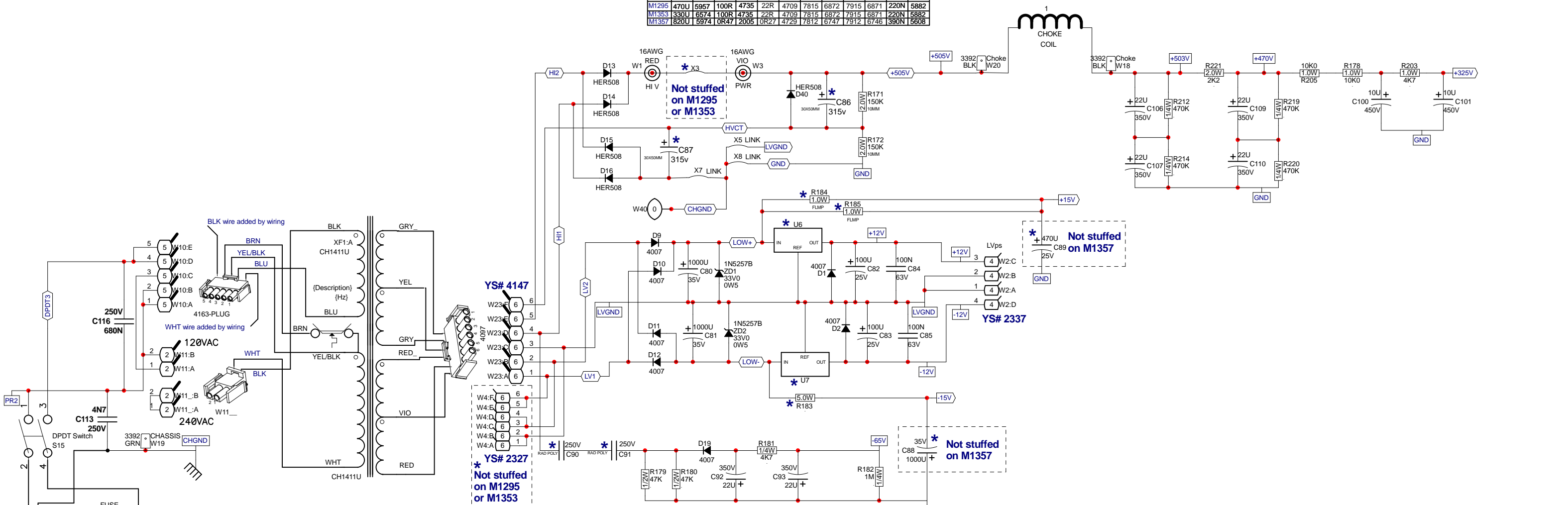
Rev:V04

YsType:YsType

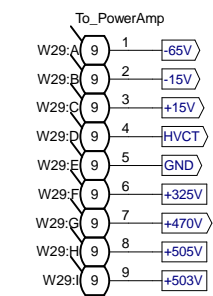
Filename: M1301V04sch.sch2006

* Variant Parts

PCB#	Value	Part#	Value	Part#	Value	Part#	Value	Part#	Value	Part#	Value	Part#
M1295	470U	5967	100R	4735	22R	4709	7815	6872	7915	6871	220N	5882
M1353	330U	8574	100R	4735	22R	4709	7815	6872	7915	6871	220N	5882
M1357	820U	5974	0R47	2005	0R27	4729	7812	6747	7912	6746	390N	5608



Power Amp Header



YS# 3538

X8017 PCB_DATABASE_HISTORY			
MODEL(S):-	YBA300		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	2010/06/17	1.00p0	New board with XF connectors.
2			Eyelets on PS caps, W1 and W3 changed to normal.
3	2010/09/08	1.00p1	Re-arranged AC input to prevent 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.
10			PC# 8734 and PC# 8913 IMPLEMENTED.
11	.	.	.
12	.	.	.
13	.	.	.

Yorkville Product **YBA300 Power Supply**

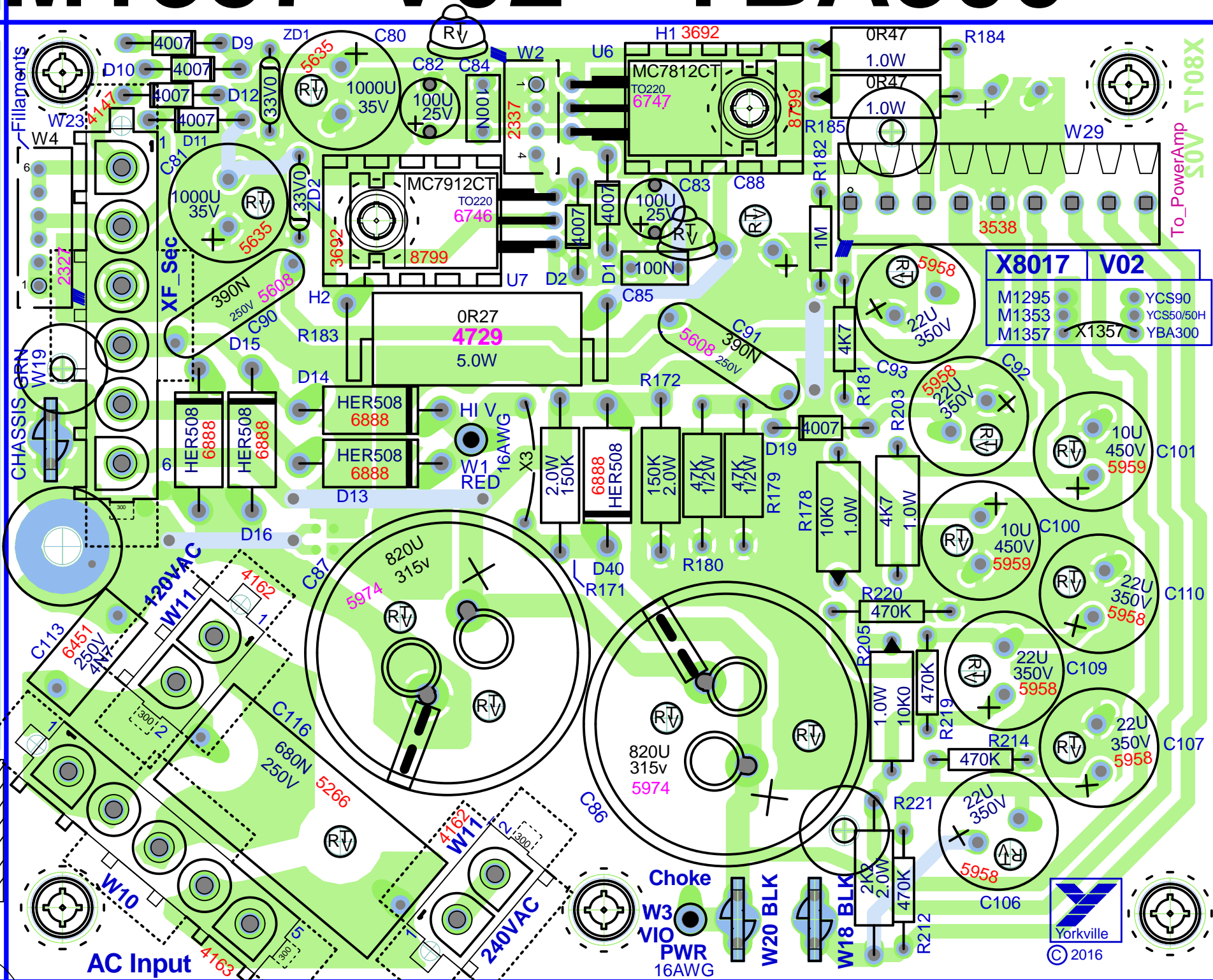
Power Supply	PCB# X8017	Sheet 1 of 2
Date: Tue Apr 19, 2016	Rev: V02	YsType:
Filename: X8017V02sch.sch2006		

StepAndRepeat - X3@5.125Y2@4.050

M1357 V02 YBA300

SCORE

BlankSize - 16250x9050



X8017		V02	
M1295	YCS90	YCS50/50H	YBA300
M1353	X1357		
M1357			

SCORE

CLINCH ORIGIN

SCORE

AC Input

INSERT ORIGIN

X8017 V02

YBA300
YCS50/50H
YCS90

SCORE



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SEE LAYOUT DIAGRAM



X8017 PRODUCTION NOTES (M1295 / M1353 / M1357

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

2. B.A. Variant parts:

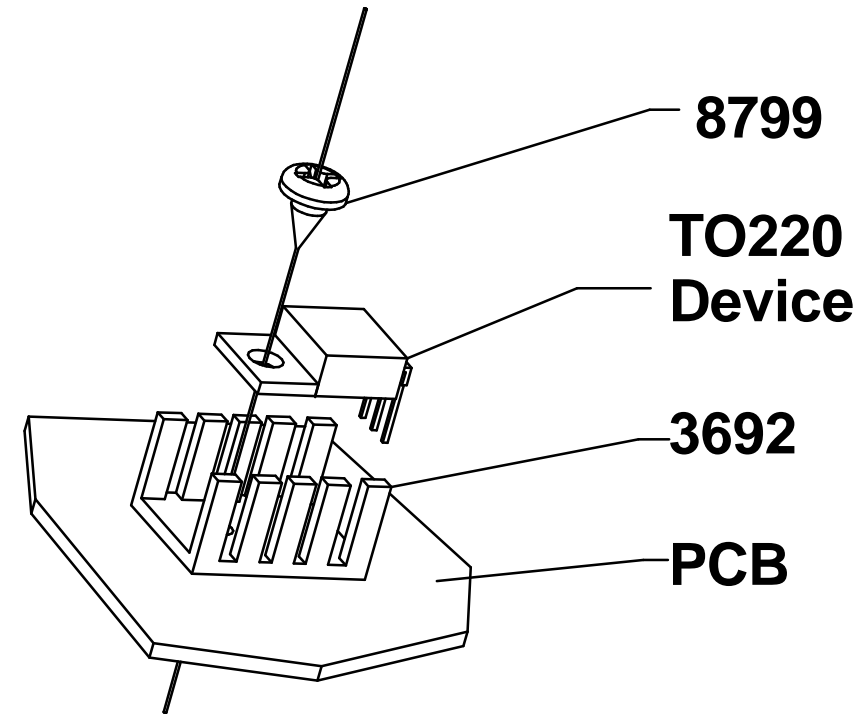
BOARD	C86	C87
M1295	#5957, 470U	#5957, 470U
M1353	#6574, 330U	#6574, 330U
M1357	#5974, 820U	#5974, 820U

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

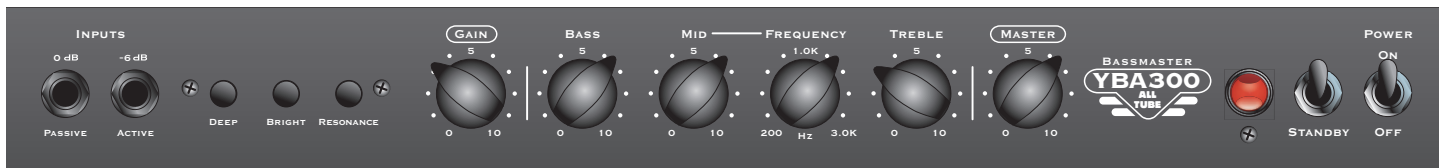


X8017PCB_DATABASE_HISTORY

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.
10	.	.	PC# 8734 and PC# 8913 IMPLEMENTED.
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 ¼-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 ¼-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.



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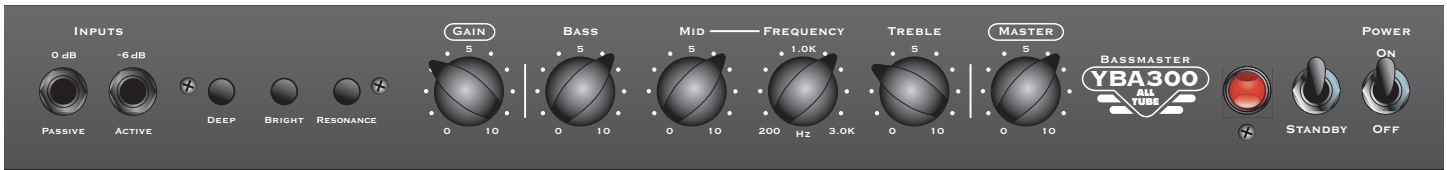
Yorkville Sound
 550 Granite Court
 Pickering, Ontario
 L1W-3Y8 CANADA

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 ambre 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-Égalisation 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 ¼ 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 ¼ de pouce ou du connecteur «Speakon». Les connexions à ces prises sont en parallèle. À 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.



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