



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



SERVICE MANUAL

Traynor SB106

SMT Disclaimer

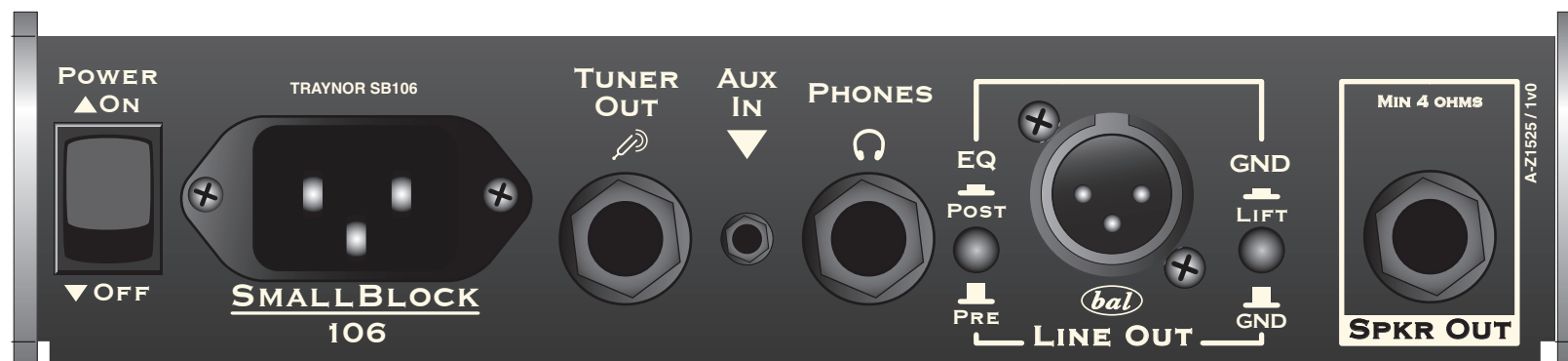
Due to the complex nature of the use of SMT installed components in Yorkville equipment, we highly caution all service technicians in attempting to repair or replace SMT factory installed components.

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



Specifications

Model:	SB200H/SB106
Type:	SBH200H bass amp / SB106 bass amp & compact cabinet
Cabinet Impedance (ohms):	SB200H: 4 ohms SB106: 8 ohms (internal) 4 ohms (external)
Power @ min. impedance (watts):	200 watts
Minimum Impedance (ohms):	4 ohms
Burst Power - 2 cycle:	250 watts
Speaker Configuration - LF (Size / Power):	SB106: 6.5 / 150W (internal)
Input Channels:	2
Channel 1 - inputs:	passive 0 dB, active -6 dB
Channel 1 - controls:	Gain, Bass, Low Mid, High Mid, Treble, Low Expander
Channel 1 - switches:	Mute, Ground Lift, Line Out Pre/Post EQ
Channel 2 - inputs:	Aux In - 1/8-inch
Line Out (type / configuration):	Balanced Switchable Pre-EQ/Post-EQ, Ground Lift switch
Line Out Sensitivity (Vrms):	1 Vrms
LED Indicators:	red,blue protect & standby, power
Protection:	clip,thermal, overcurrent.
External speaker output / location:	Combi-Jack (1/4-inch/Speakon™) / rear of unit
Other Features:	1/4-inch head phone jack, Tuner out
Dimensions (DWH, inches):	7.5 x 8 x 1.75 SB106: 9 x 9.5 x 12.5
Dimensions (DWH, cm):	SB200H: 19.1 x 20.35 x 4.5 SB106: 22.9 x 24.2 x 11.5
Weight (lbs / kg):	SB200H: 2.375/1.1 SB106: 15/6.8

Specifications subject to change without notice

Spécifications

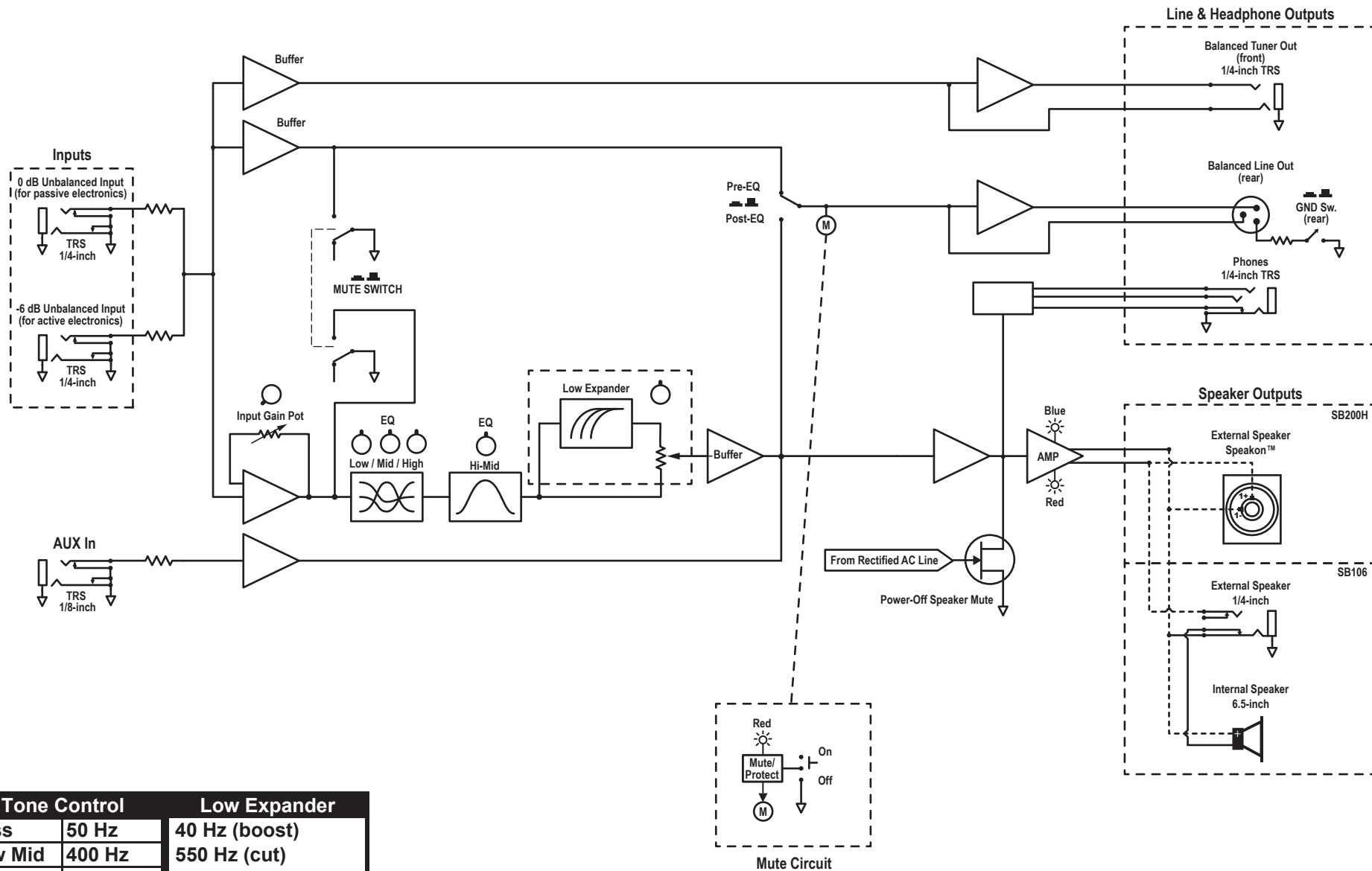
Modèle	SB200H/SB106
Type:	amplificateur pour basse / SB106 ampli basse et coffret compact
Impédance d'Enceinte (ohms):	SB200H: 4 ohms SB106: 8 ohms (interne) 4 ohms (externe)
Puissance @ min. impédance (watts):	200 watts
Impédance Minimum (ohms):	4 ohms
Puissance de Pointe - 2 cycles:	250 watts
Configuration de Haut-Parleur - FG (Dimensions / Puissance):	SB106: 6.5 / 150W (interne)
Canaux d'entrée:	2
Canal 1 - entrées:	passive 0 dB, active -6 dB
Canal 1 - contrôles:	Gain, Bass, Low Mid, High Mid, Treble, Low Expander
Canal 1 - sélecteurs:	Mute, Ground Lift, Line Out Pré/Post EQ
Canal 2 - entrées:	Entrée Aux - 1/8 de pouce
Sortie Ligne (type / configuration):	Symétrique commutable Pré-EQ/Post-EQ, Sélecteur Ground Lift
Sortie Ligne Sensibilité (Vrms):	1 Vrms
DEL indicatrices:	rouge, bleue, protect, alimentation
Protection:	clip, thermique, surcharge.
Haut-parleur externe - sortie/emplacement:	Combi-Jack (1/4-inch/Speakon™) / arrière de l'appareil
Autres Caractéristiques:	Prise 1/4 de pouce pour casque, Sortie pour Accordeur
Dimensions (PLH, pouces):	SB200H: 7.5 x 8 x 1.75 SB106: 9 x 9.5 x 12.5
Dimensions (PLH, cm):	SB200H: 19.1 x 20.35 x 4.5 SB106: 22.9 x 24.2 x 11.5
Poids (livres / kg):	SB200H: 2.375/1.1 SB106: 15/6.8

Spécifications sujettes à changement sans préavis

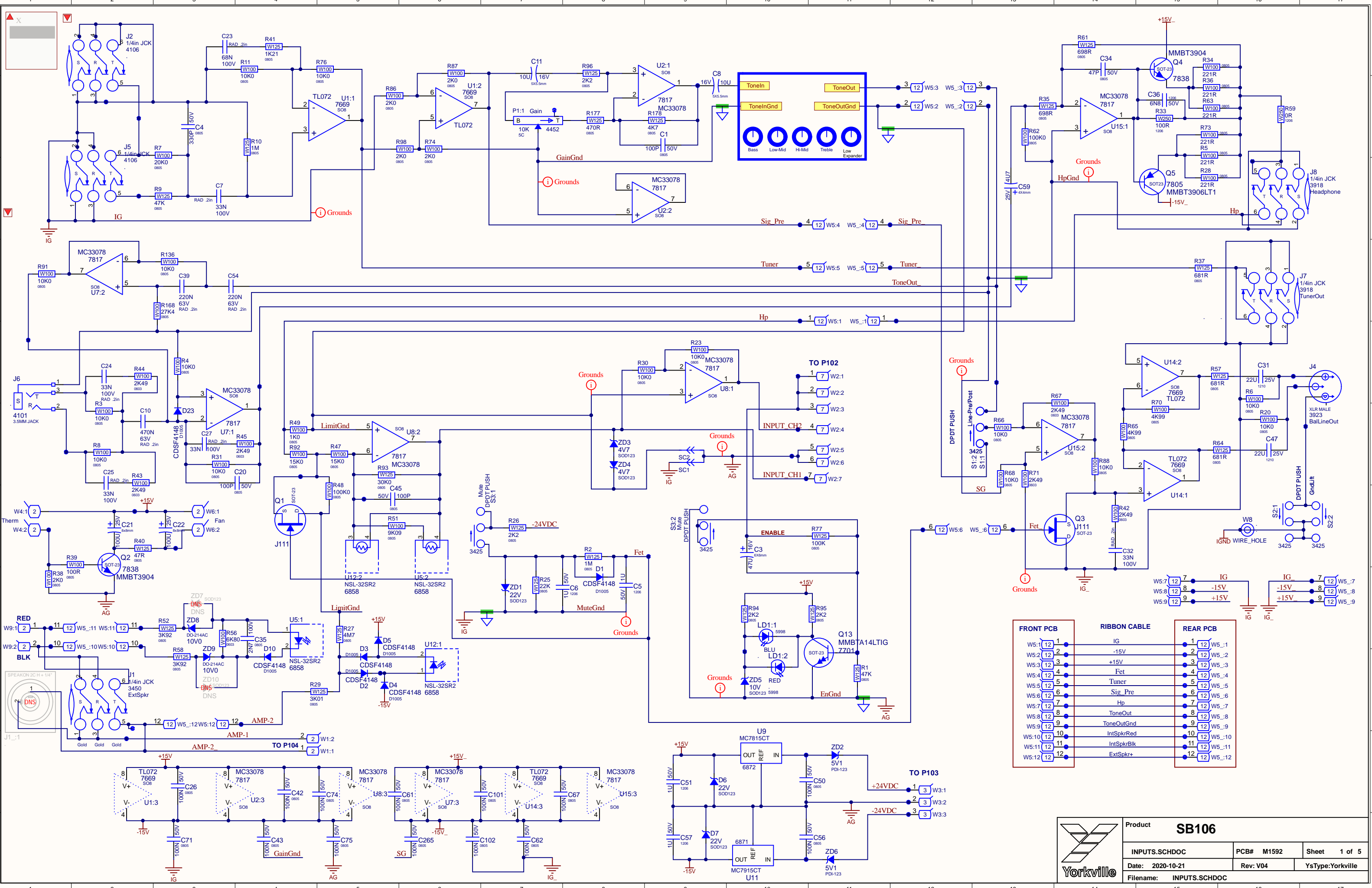
Block Diagram for Small Block SB200H & SB106

DESIGNED AND MANUFACTURED BY YORKVILLE SOUND

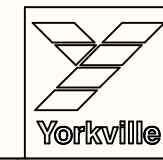
MODEL TYPE: YS1109



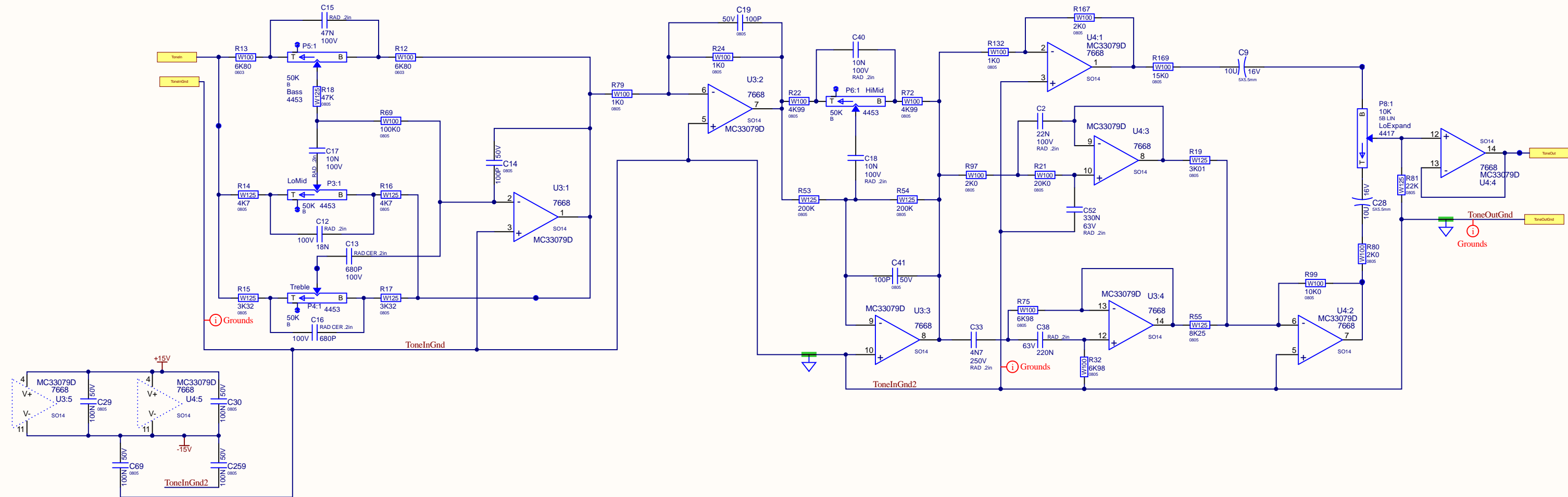
Tone Control		Low Expander	
Bass	50 Hz	40 Hz (boost)	
Low Mid	400 Hz	550 Hz (cut)	
Hi Mid	1 kHz	10 kHz (cut)	
Treble	8 kHz		



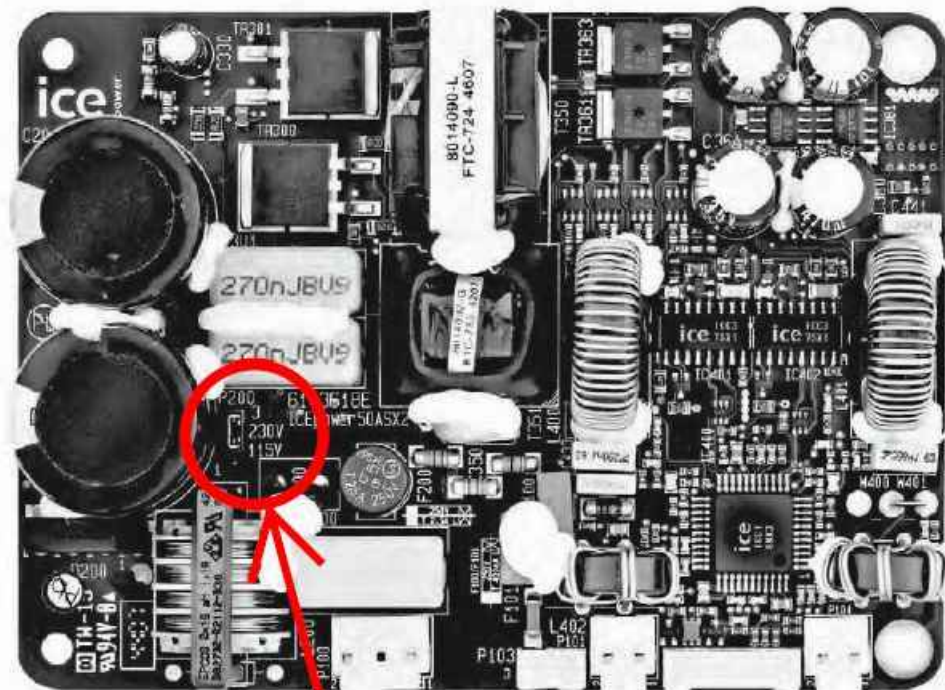
FRONT PCB	RIBBON CABLE	REAR PCB
W5:1 12	1	1 12 W5:1
W5:2 12	2	2 12 W5:2
W5:3 12	3	3 12 W5:3
W5:4 12	4	4 12 W5:4
W5:5 12	5	5 12 W5:5
W5:6 12	6	6 12 W5:6
W5:7 12	7	7 12 W5:7
W5:8 12	8	8 12 W5:8
W5:9 12	9	9 12 W5:9
W5:10 12	10	10 12 W5:10
W5:11 12	11	11 12 W5:11
W5:12 12	12	12 12 W5:12



Product SB106		
INPUTS.SCHDOC	PCB# M1592	Sheet 1 of 5
Date: 2020-10-21	Rev: V04	YsType:Yorkville
Filename: INPUTS.SCHDOC		

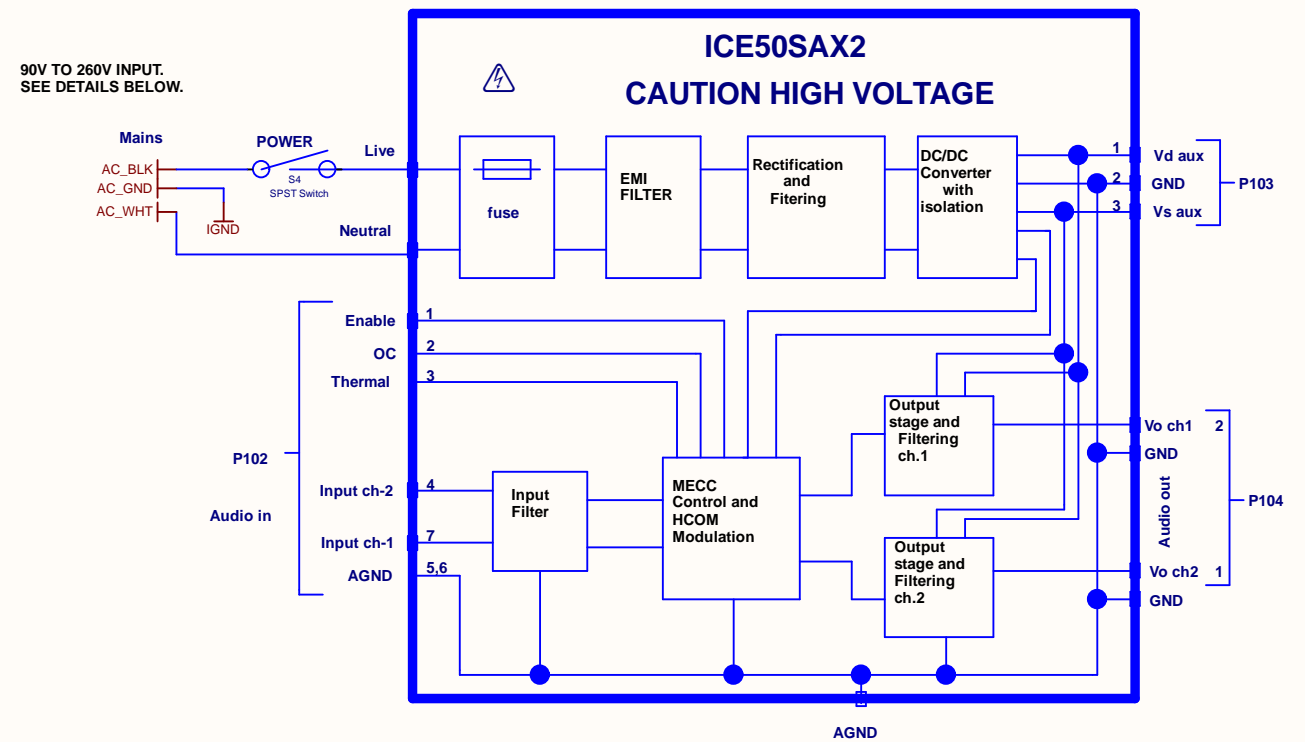


MAINS VOLTAGE INPUT SETTING (NA<->CE)



**SET JUMPER P200 TO "115V" FOR NA.
SET IT TO "230V" FOR CE.**

ICEpower50SAX2 block diagram



Product		SB106	
TONE CONTROLS.SCHDOC	PCB# M1592	Sheet	2 of 5
Date: 2020-10-21	Rev: V04	YsType:Yorkville	
Filename: TONE CONTROLS.SCHDOC			

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	19-DEC-2016	V02	.	RELEASED FOR PRODUCTION
2	28-APRIL-2017	V03	9003	IMPLEMENTED.
3	.	.	9024	IMPLEMENTED.
4	27-SEP-018	V04	.	Removed X-markings on the board and changed to variant
5	22-MAR-2019	.	9148	Rotated wave direction 90 degrees
6	21-OCT-2020	.	9569	Updated schematic names and revision numbers.
7
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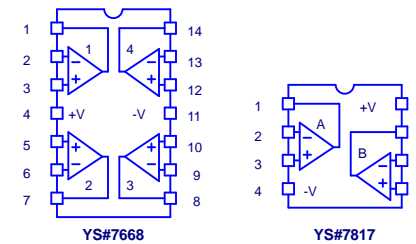
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1	Gain	4452	P40	10029
P3	LoMid	4453	P40	10029
P4	Treble	4453	P40	10029
P5	Bass	4453	P40	10029
P6	HiMid	4453	P40	10029
P8	LoExpand	4417	P28	10029
S1	Line-Pre/Post	3425	.	8636
S2	GndLift	3425	.	8636
S3	Mute	3425	.	8636
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PINOUT DIAGRAMS



THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.



AI-ASSY1



PCB1



SNL1
8370 Barcode



ESD1
ATTENTION
static device



HW1



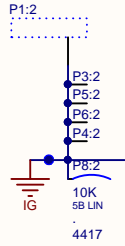
HW2



HW3



HW4



EC15
2335



EC16
2335



EC2



TJH1



TJH3

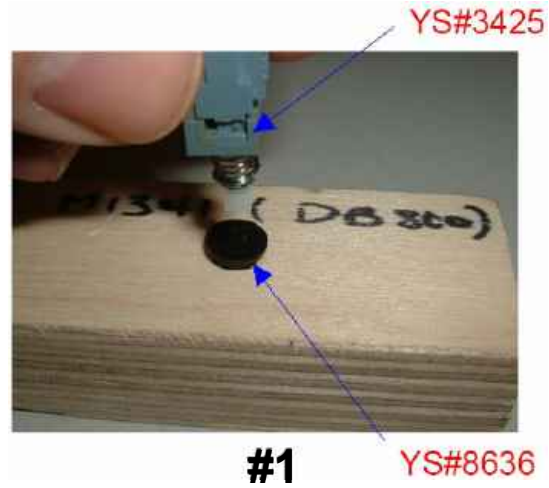


Product SB106		
ECO.SCHDOC	PCB# M1592	Sheet 4 of 5
Date: 2020-10-21	Rev: V04	YsType:Yorkville
Filename: ECO.SCHDOC		

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

- 1 USE PIZZA CUTTER WHERE POSSIBLE.
2. INSERT PUSHBUTTON KNOB ON SWITCH S1, S2 AND S3 BEFORE INSERTING INTO PCB. USE JIG AS SHOWN IN PICTURE #1
3. INSERT GREEN WIRE TO W8 AS SHOWN IN PCB LAYOUT.
4. BREAK PANEL BEFORE TEST AND REPAIR



PCB HARDWARE

SCREWS AND BOLTS

SPACERS

THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

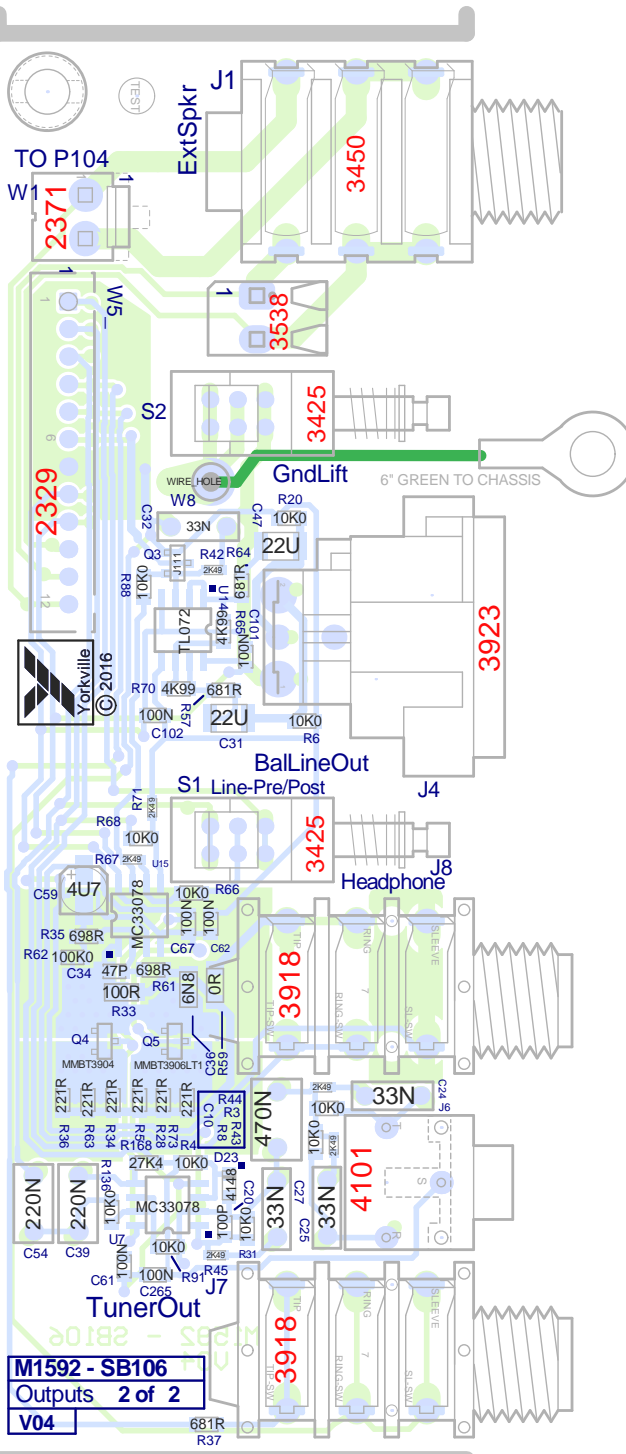
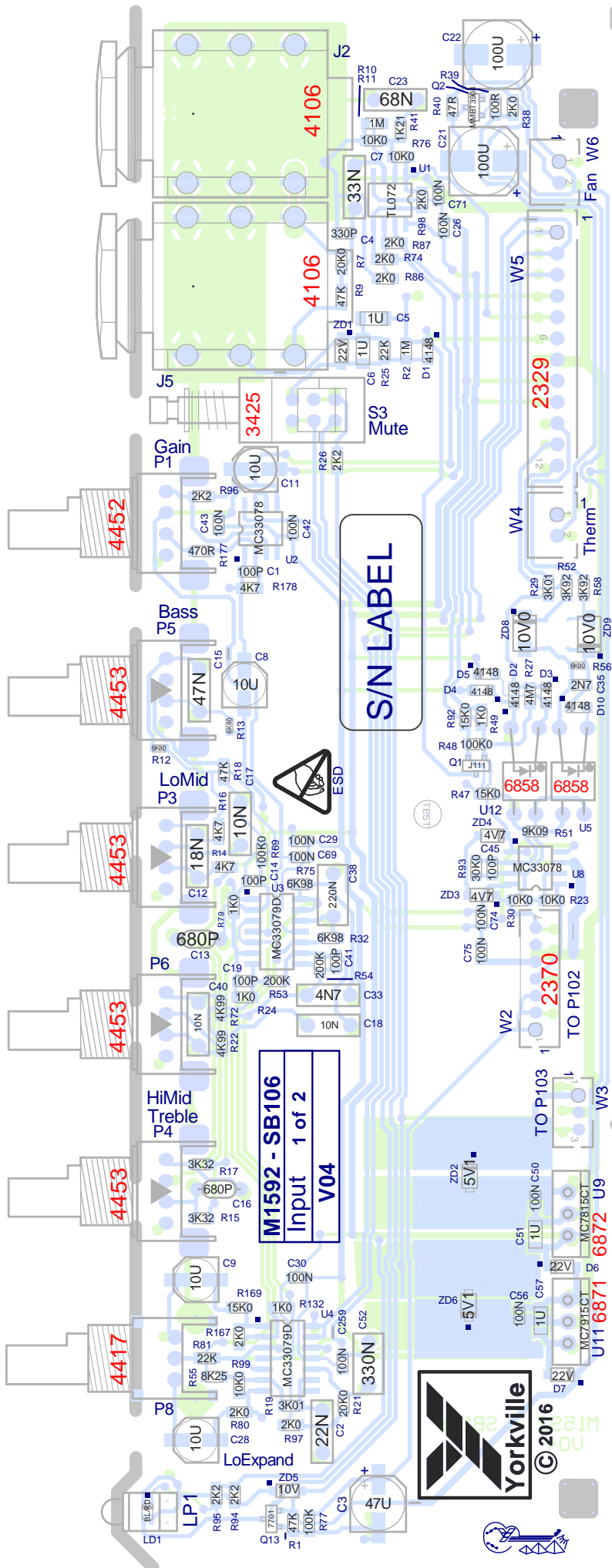


Section: **Assembly Documentation**

Product(s): **SB106**

PCBA: M1592 Rev: V04 EML Rev: 01 Sheet 5 Of 5

Modified: 2020-10-21 File: AssemblyM1592.SchDoc Temp Rev: V031



M1592 - SB106
Input 1 of 2
V04

M1592 - SB106
Outputs 2 of 2
V04

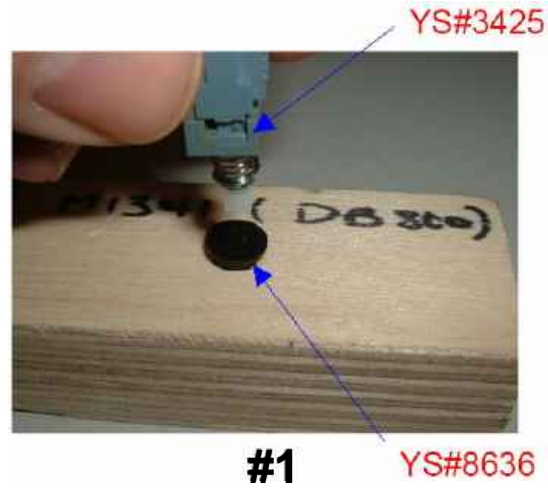


M1592 - SB106
V04

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Section: Assembly Documentation			
Product(s): SB106			
PCB#: M1592	Rev#: V04	EML Rev#: 01	Sheet 5 Of 5
Modified: 2020-10-21	File: AssemblyM1592.SchDoc	Tmp Rev: V031	

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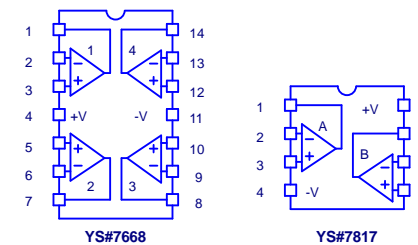
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PINOUT DIAGRAMS



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SMALLBLOCK

106 & 200H

Power Switch and Lamp

The power lamp illuminates blue when ready to use, red for standby, mute and protect,

Inputs and Clip LED

The 0dB input has been designed for bass guitars with single-coil pickups and the -6dB input for basses with active or extremely 'hot' pickups.

User Tip: Do not use both inputs at the same time to connect a second bassist or other musician.

Mute Button

The mute function disengages the preamp signal from all outputs except for the Tuner jack. When enabled the power light changes to the color red.

Gain Control

The Gain control sets the level of the signal before it's sent to the tone controls.

Tone Controls

With a range of ± 15 db, these tone controls cover the entire audio spectrum. The center position of each control denotes a neutral or nominal setting.

Low Expander Control

The Low Expander shapes the tone by contouring the gain of the mid frequencies while expanding the low frequency.

AUX Input

This 1/8-inch input jack is used to connect an external sound source from a digital audio player, a smart phone etc..

Phones Jack

Connect headphones here for practicing or recording.

Tuner Out Jack

Connect your instrument tuner here using a standard shielded (e.g. guitar) cable.

Line Out EQ Switch

Engaged, the audio signal to the Line Out is routed through the amp's tone controls (Post-EQ); disengaged, the signal bypasses the EQ and is sent directly to the Line Out (Pre-EQ).

Line Out XLR and Lift/GND Button

The Line Out allows the user to connect the Small Block preamp directly to a mixing console when performing live or recording.

Speaker Out

The amp's minimum load is 4 ohms, you can connect a total of one 4 ohm speaker cabinet or two 8 ohm cabinets in parallel. When used, disables the internal speaker (SB106).

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

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Printed In CANADA

QuickStart-SB106-SB200H-00-1v3 • YS#QSTART-SB • January 22, 2020



SMALLBLOCK

106 & 200H

Interrupteur d'Alimentation et Voyant

Le voyant d'alimentation s'allume bleu lorsque que l'amplificateur est prêt pour utilisation et rouge pour les mode standby, mute et protect.

Entrées et DEL Clip

L'entrée 0dB a été conçue pour guitares basses avec micros à bobine simple et l'entrée -6dB pour basses avec micros actifs ou avec niveau de sortie extrêmement élevé.

Conseil: ne pas simultanément utiliser les deux entrées pour connecter un deuxième bassiste ou autre musicien.

Bouton Mute

La fonction Mute désactive le signal de préampli à toutes les sorties sauf à la prise "Tuner". Lorsque la fonction Mute est activée, le voyant d'alimentation passe à la couleur rouge.

Commande de Gain

La commande de Gain détermine le niveau du signal avant qu'il ne soit acheminé aux commandes de tonalité.

Commandes de Tonalité

Avec une plage de ± 15 dB, ces commandes de tonalité couvrent l'ensemble du spectre audio. La position centrale de chaque commande représente un réglage neutre ou nominal.

Commande Low Expander

La fonction Low Expander façonne la tonalité en manipulant le gain des fréquences moyennes tout rehaussant les fréquences basses.

Entrée AUX

Cette prise d'entrée de pouce est utilisée pour connecter une source audio externe comme un lecteur audio numérique, un téléphone intelligent etc.

Prise Pour Casque

Branchez un casque à cette prise pour pratiquer ou enregistrer silencieusement.

Prise de Sortie Pour Accordeur (tuner)

Connectez votre accordeur d'instrument à cette prise à l'aide d'un câble blindé standard (ex. Un câble de raccordement pour guitare).

Commutateur Line Out EQ

Lorsque le commutateur est engagé, le signal audio à la sortie ligne est acheminé à travers les commandes de tonalité de l'ampli (post-EQ); Lorsqu'il est désengagée, le signal contourne les commandes de tonalité et est acheminé directement à la sortie ligne (Pré-EQ).

Sortie Ligne XLR (Line Out) et Bouton Lift / GND

La sortie ligne (Line Out) permet à l'utilisateur de connecter le préampli du Small Block directement à une console mixage lors de prestation live ou lors de l'enregistrement.

Sortie Haut Parleur (Speaker Out)

La charge minimale de l'ampli est 4 ohms. Vous pouvez connecter un total d'une enceinte haut parleurs 4 ohm ou deux enceintes 8 ohms en parallèle. Le haut parleur interne est désactivé lorsque cette prise est utilisée. (SB106).

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

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L1W-3Y8 CANADA

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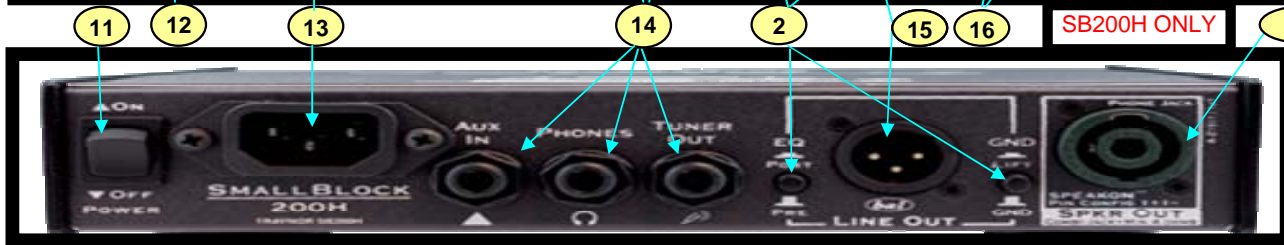
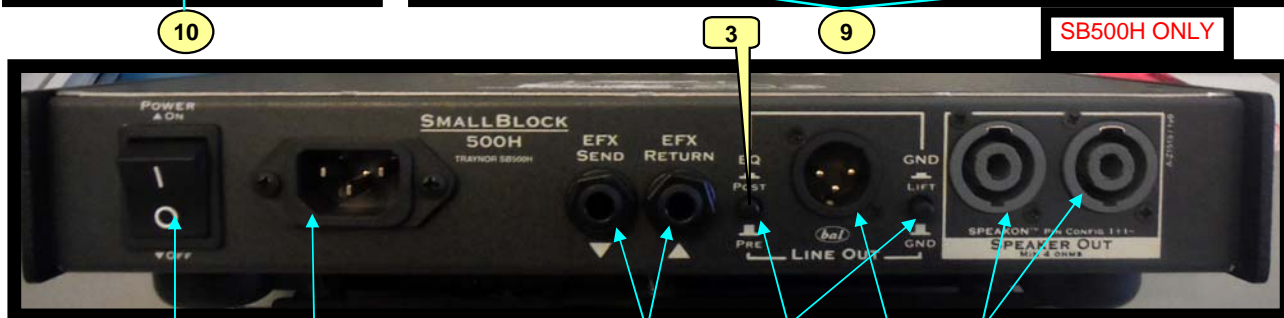
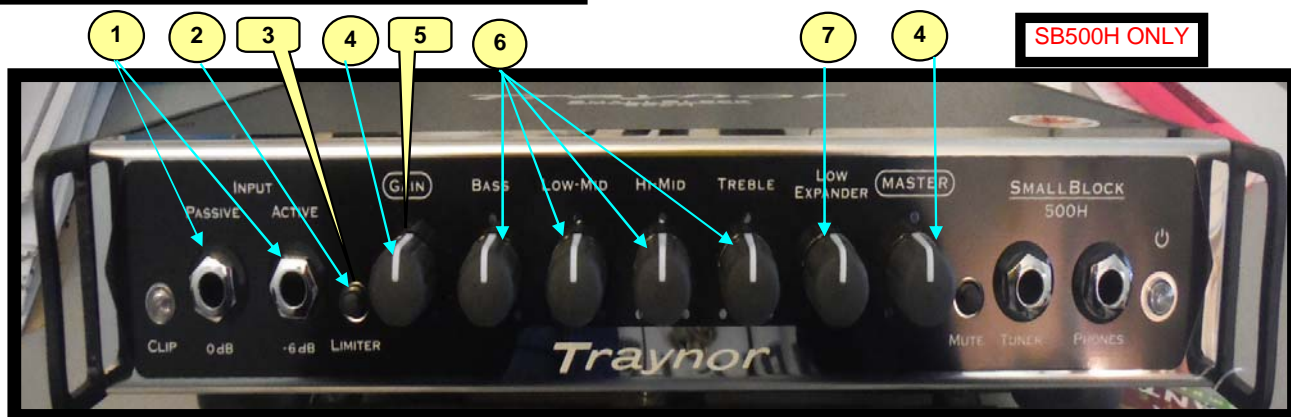


SB200/500H

BASS GUITAR AMPLIFIER



#	Part#	Description	qty
Labeled Components			
1	4106	1/4" JCK PCB MT HORZ	1
2	3425	DPDT PUSH SW PCMT BREAK B4 MAKE	4
3	8636	BUTTON 230X465 RND FLAT BLK (3425)	4
4	4455	_10K 5B R/A 12MM 4PIN HORZ P40	2
5	10029	SB200H KNB BLK WHT POINTER D SHAFT	7
6	4453	_50K B LIN 12MM 4PIN HORZ DT P40	4
7	4417	_10K 5B LIN 9MM HORIZONTAL P28	1
8	4455	_10K 5B R/A 12MM 4PIN HORZ P40 200H ONLY	1
9	8522	RUBBER BUMPER WITH WASHER -SMALL-	4
10	3428	8' 3/18 SJT AC LINE CORD REMOVABLE	1
11	3698	SPST ROKR SW QUIK 180" AC PWR BL/BL	1
12	3688	DPDT ROKR SW QUIK 250"AC/25A ON-OFF	1
13	3645	RECEPTACLE:INLET	1
14	3918	1/4" JCK PCB MT HORZ SLIM W/SCREW	1
15	3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP	1
16	6956	SPKON 4C PCB MT HORZ GRY #4 SB500 ONLY	2
17	6973	NEUTRIK SPKON 1/4" JACK COMBO GRN SB200 ONLY	1





Yorkville Service Hint

Product; SB106 Combo Bass Amp

Description of found problem; Distortion on the headphone amp

Serial Number range; 6080683 to 6080734

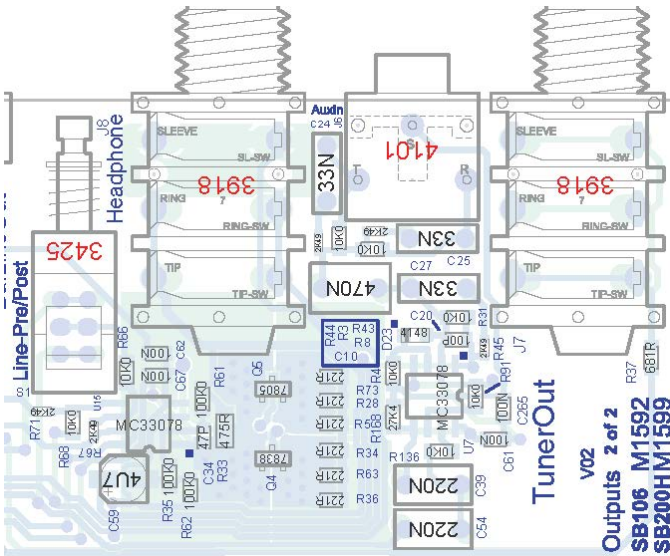
Suggested correctional fix; Component upgrade to lower the impedance

Recommended Steps

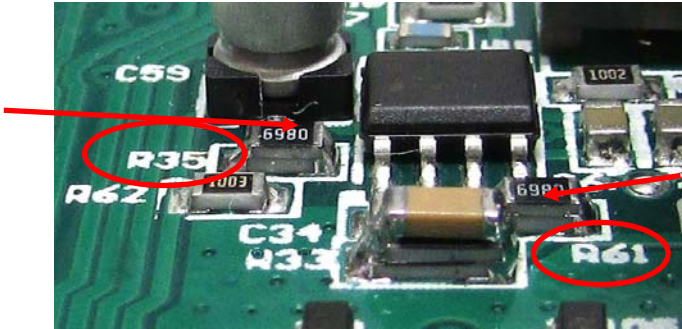
SB106 PCB Field Service Modifications

Board Number: X8026 V02 (M1592)

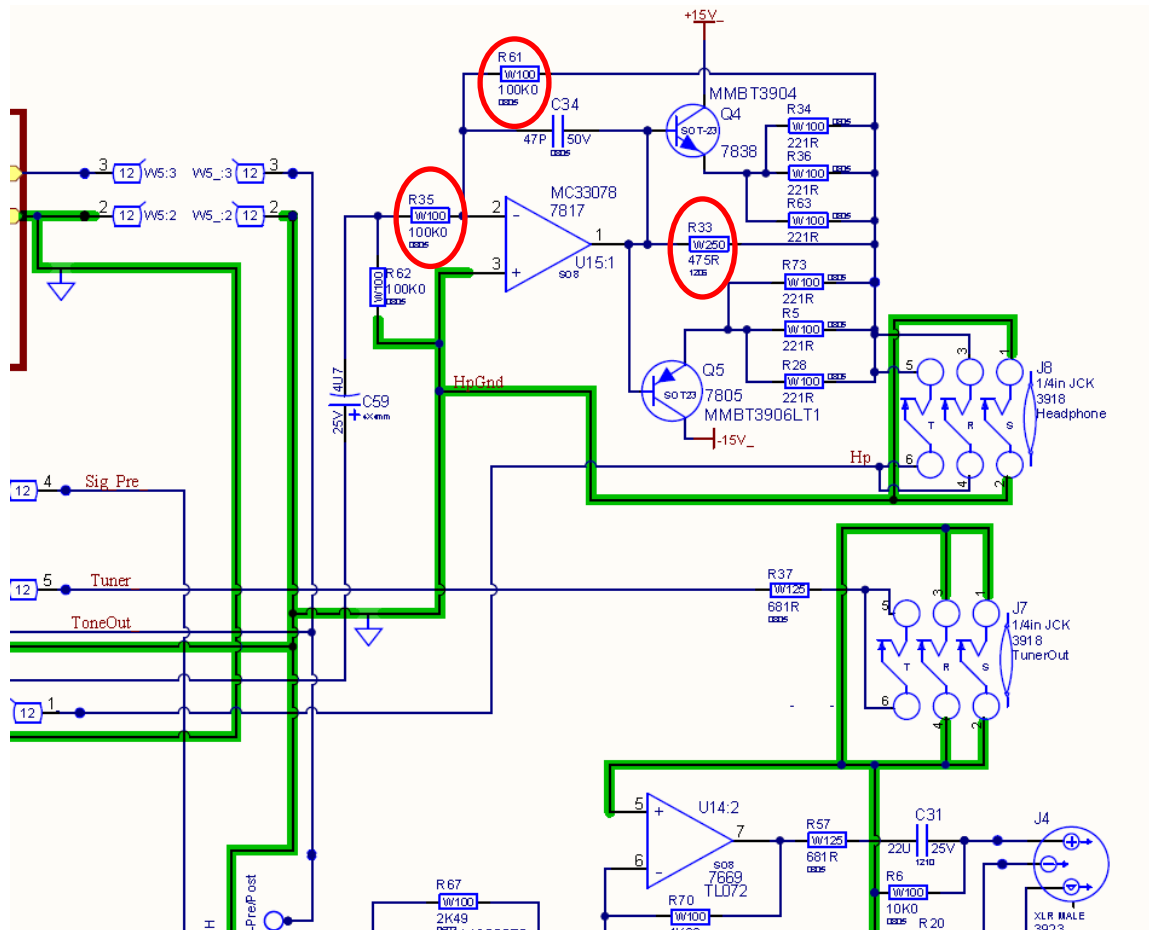
Stack YS#7740 (698R, 805 SMD) on top of R61 and R35.



Triple stack YS#7853 (100R, 1206 SMD) and YS#7695 (6.8 nF, 1206 SMD) on top of R33.



- 6.8 nF
- 100 R
- R33 (475 R)
- 698 R
- R61(100K0)
- 698 R
- R35(100K0)



698 R
R35(100K0)

698 R
R61(100K0)

6.8 nF
100 R
R33 (475 R)



Yorkville Sound

550 Granite Court
Pickering, Ontario
Canada L1W 3Y8

Auto Attend: (905) 837-8550

Fax: (905) 837-8746

www.yorkville.com
