



WEB: www.yorkville.com

WORLD HEADQUARTERS

CANADA

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

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



SERVICE MANUAL

PSA 1S ***REV1 + REV2***

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

THIS UNIT MUST
BE GROUNDED!
CET APPAREIL DOIT
ETRE MIS A TERRE!



Power



Off

Circuit
Breaker



DISCONNECT POWER
BEFORE SERVICING!
DEBRANCHER L'APPAREIL AVANT
D'ENLEVER LES COUVERCLES!

CE	MODEL TYPE: YS1099	A-Z1433 / 1v5
230V ~ 50Hz 900mA		120VAC 60Hz 1.8A

DESIGNED & MANUFACTURED BY YORKVILLE SOUND • TORONTO, CANADA



Clip
Limit
Power
Protect
when flashing



PARALINE
SERIES

PSA1S

WWW.YORKVILLE.COM



CAUTION - TO REDUCE THE RISK OF ELECTRIC SHOCK,
GROUNDING OF THE CENTRE PIN OF THIS PLUG MUST BE MAINTAINED
ATTENTION - POUR RÉDUIRE LE RISQUE DE CHOC ÉLECTRIQUE, CONSERVER
LA MISE À LA TERRE ASSURÉE PAR LA TIGE CENTRALE DE CETTE FICHE!

DISCONNECT POWER BEFORE SERVICING!
DEBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!

PSA1S REV2 A-Z1460 / 2v6

V2	230V~ 50Hz 900mA	120V~ 60Hz 1.8A
	CE	



DESIGNED & MANUFACTURED BY YORKVILLE SOUND • TORONTO, CANADA
WWW.YORKVILLE.COM



CAUTION • AVIS

RISK OF ELECTRIC SHOCK
DO NOT OPEN
RISQUE DE CHOC ÉLECTRIQUE
NE PAS OUVRIR

NO USER SERVICEABLE PARTS INSIDE.
NE CONTIENT AUCUNE PIÈCE
REPARABLE PAR L'UTILISATEUR.



PARALINE SERIES

PSA1S

WWW.YORKVILLE.COM

Input Mode

- Clip (Red LED)
- Limit (Yellow LED)
- Pwr (Green LED)
- Line (Line icon)
- Spkr (Spkr icon)

Level

Min Max

Input (LINK)

Specifications

Active or Passive	Active
Program Power (watts)	1400 Watts Program (2800 Watts Peak)
Max SPL (dB)	135dB Peak (129dB Continuous)
Frequency Response (Hz +/- 3db)	37Hz-100Hz
Crossover Frequency (Hz)	fixed @ 100Hz
Driver Configuration	2x12-inch (Bass Reflex Cabinet)
LF Driver(s)	2x12-inch Ceramic with 3-inch VoiceCoil
LF Impedance (ohms)	2x4 Ohm Load
LF Power Amplifier (watts)	Class D
Power Consumption (typ/max)	210VA / 440 VA
Enclosure Materials	15mm Birch
Baffle Material	15mm Birch
Covering / Finish	Paint
Dimensions (DWH xbackW, inches)	22.75 x14 x 32
Dimensions (DWH xbackW, cm)	57.8 x 35.6 x 81.3
Weight (lbs/kg)	120 / 54.6

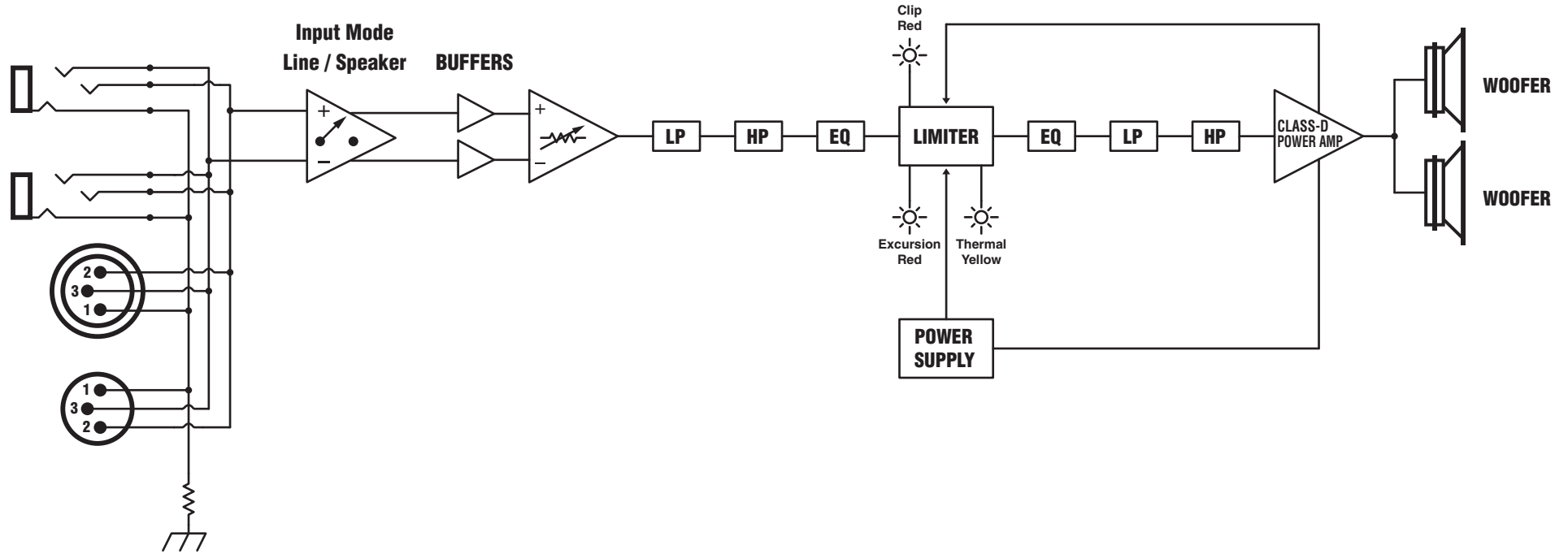
* Specifications subject to change without notice

Spécifications

Active ou Passive	Active
Puissance Nominale (watts)	1400 Watts (Pointe: 2800 Watts)
Niveau de Pression Sonore Max (dB)	135dB Pointe (129dB Continue)
Réponse en Fréquence (Hz +/- 3db)	37Hz-100Hz
Fréquence de Filtre Séparateur (Hz)	fixe @ 100Hz
Configuration des HP	2x12-pouces (enceinte Bass Reflex)
Driver(s) pour Fréquences Graves	2x12-pouces - céramique avec bobine de 3 pouce
Impédance pour Fréquences Graves(ohms)	2x4 Ohm
Amplificateur - Fréquence Graves	Classe D
Consommation de puissance (typ/max)	210VA / 440 VA
Matériaux de construction - Enceinte	15mm Bouleau
Matériaux de construction - Baffle	15mm Bouleau
Recouvrement/ Finition	Peinture
Dimensions (PLH x L arrière, pouces)	22.75 x14 x 32
Dimensions (PLH x L arrière, cm)	57.8 x 35.6 x 81.3
Poids (livres/kg)	120 / 54.6
	* Les spécifications sont sujettes à modification sans préavis

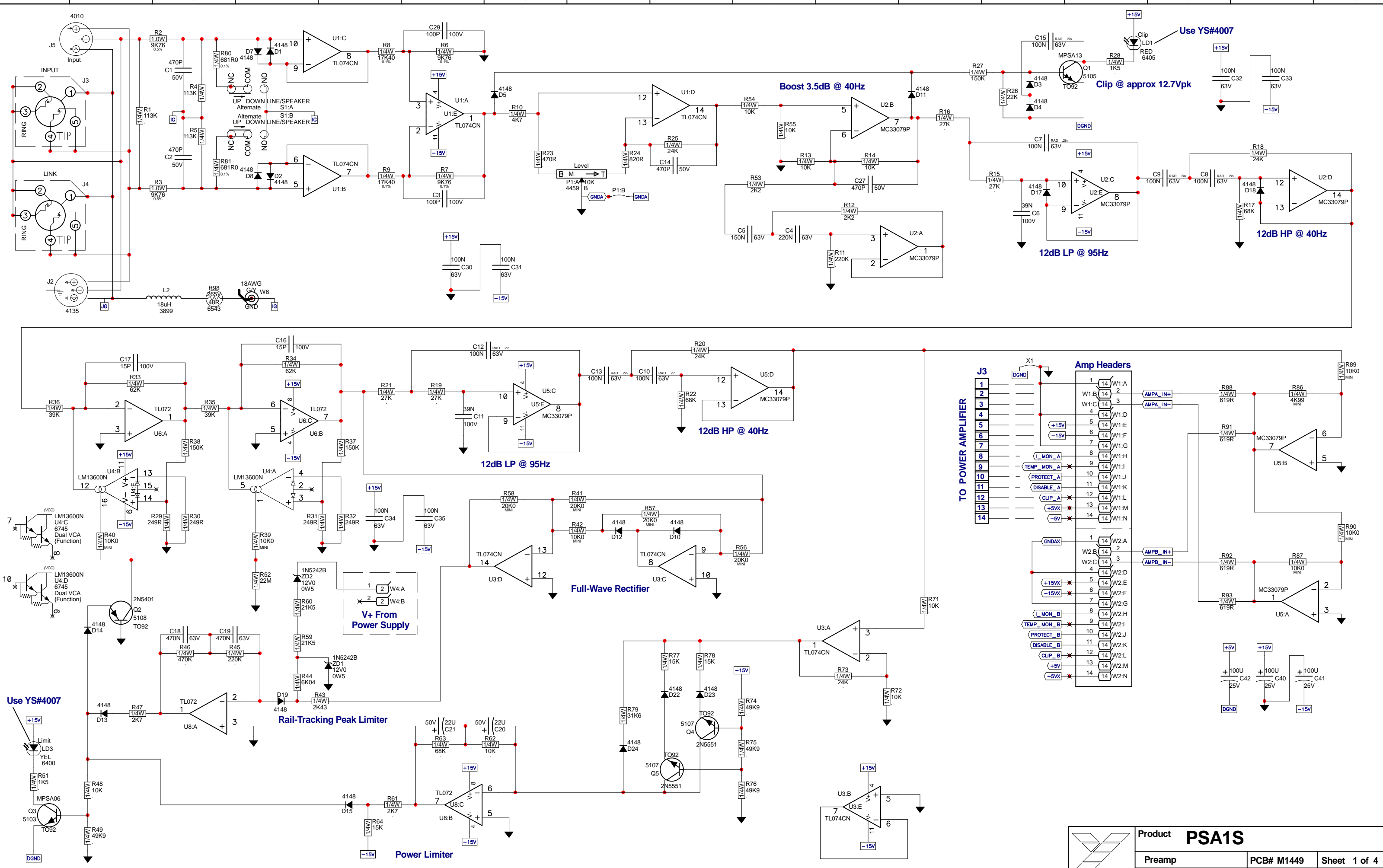
Block Diagram for PSA1s

DESIGNED & MANUFACTURED BY YORKVILLE SOUND



M1698 Rev2 Parts Reference List 3/17/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
C1		470P 250V 5%CAP 0603 SMT NP0	Q21		MMBTA14 NPN DARL SOT-23 SMT	S1	3522	DPDT MINI PC VERT SNP ALT
C2		470P 250V 5%CAP 0603 SMT NP0	R1		W100 1K0 1% 0805 SMT RES	U1		33078 DUAL OPAMP SMT SO-8
C3	5213	1N 630V 5%CAP T&R RAD PRO .2FLM	R2		W125 10K00 0.1% 0805 SMT RES	U4		TL072 DUAL OPAMP SMT SO-8
C6	5204	10N 100V 10%CAP T&R RAD .2FLM	R3		W100 2K74 1% 0805 SMT RES	U5		33078 DUAL OPAMP SMT SO-8
C8		47P 50V 5%CAP 0805 SMT NPO	R4		W100 1K0 1% 0805 SMT RES	U6		33078 DUAL OPAMP SMT SO-8
C9	5961	33U 16V 20%CAP T&R RAD .2IN NP	R5		W125 18K00 0.1% 0805 SMT RES	U7		33078 DUAL OPAMP SMT SO-8
C11	5234	470N 63V 10%CAP T&R RAD .2FLM	R6		W125 10K00 0.1% 0805 SMT RES	U15		LM13700M XCONDUCTANC AMP SMT IC
C12	5234	470N 63V 10%CAP T&R RAD .2FLM	R7		W100 357K 1% 0805 SMT RES	U18		33078 DUAL OPAMP SMT SO-8
C13	5222	33N 100V 10%CAP T&R RAD .2FLM	R8		W100 221R 1% 0805 SMT RES	U25		TL072 DUAL OPAMP SMT SO-8
C14	5222	33N 100V 10%CAP T&R RAD .2FLM	R9		W125 100K 5% 0805 SMT RES	U27		TL072 DUAL OPAMP SMT SO-8
C16	5234	470N 63V 10%CAP T&R RAD .2FLM	R10		W125 47K 5% 0805 SMT RES	U40		TL072 DUAL OPAMP SMT SO-8
C17	5234	470N 63V 10%CAP T&R RAD .2FLM	R11		W125 47K 5% 0805 SMT RES	W100	2344	8 CIR XH-HEADER RA 0.098IN
C18	5265	68U 25V 20%CAP T&R RAD .2EL	R13		W125 100K 5% 0805 SMT RES	ZD1		MM3Z18VT1G 18V0 0W2 5% SMT ZEN
C21	5265	68U 25V 20%CAP T&R RAD .2EL	R14		W100 221R 1% 0805 SMT RES	ZD2		MM3Z18VT1G 18V0 0W2 5% SMT ZEN
C36	5212	100N 100V 5%CAP T&R RAD .2FLM	R15		W125 47K 5% 0805 SMT RES			
C37	5212	100N 100V 5%CAP T&R RAD .2FLM	R16		W125 220K 5% 0805 SMT RES			
C39	5226	68N 100V 5%CAP T&R RAD .2FLM	R17		W125 47K 5% 0805 SMT RES			
C40	5231	220N 63V 5%CAP T&R RAD .2FLM	R18		W100 348K 1% 0805 SMT RES			
C46		100N 50V 5%CAP 0805 SMT X7R	R19		W100 1K0 1% 0805 SMT RES			
C47		100N 50V 5%CAP 0805 SMT X7R	R20		W125 0R 5% 0805 SMT RES			
C48	5222	33N 100V 10%CAP T&R RAD .2FLM	R21		W125 1K800 0.1% 0805 SMT RES			
C49	5234	470N 63V 10%CAP T&R RAD .2FLM	R23		W100 10K0 1% 0805 SMT RES			
C50	5222	33N 100V 10%CAP T&R RAD .2FLM	R24		W125 47K 5% 0805 SMT RES			
C51	5234	470N 63V 10%CAP T&R RAD .2FLM	R25		W125 1K5 5% 0805 SMT RES			
C74		100N 50V 5%CAP 0805 SMT X7R	R27		W125 470R 5% 0805 SMT RES			
C93		270P 50V 5%CAP 0805 SMT NPO	R28		W100 10K0 1% 0805 SMT RES			
C94		270P 50V 5%CAP 0805 SMT NPO	R29		W100 4K99 1% 0805 SMT RES			
C120		1N 50V 5%CAP 0805 SMT NPO	R32		W125 4K7 5% 0805 SMT RES			
C124		100N 50V 5%CAP 0805 SMT X7R	R33		W100 27K4 1% 0805 SMT RES			
C125		100N 50V 5%CAP 0805 SMT X7R	R34		W100 27K4 1% 0805 SMT RES			
C126		100N 50V 5%CAP 0805 SMT X7R	R35		W100 27K4 1% 0805 SMT RES			
C127		100N 50V 5%CAP 0805 SMT X7R	R36		W125 100K 5% 0805 SMT RES			
C128		100N 50V 5%CAP 0805 SMT X7R	R40		W125 47R 5% 0805 SMT RES			
C129		100N 50V 5%CAP 0805 SMT X7R	R41		W100 2K74 1% 0805 SMT RES			
C130		100N 50V 5%CAP 0805 SMT X7R	R42		W125 1K800 0.1% 0805 SMT RES			
C131		100N 50V 5%CAP 0805 SMT X7R	R46		W125 82K5 1% 0805 SMT RES			
C132		100N 50V 5%CAP 0805 SMT X7R	R47		W125 82K5 1% 0805 SMT RES			
C133		100N 50V 5%CAP 0805 SMT X7R	R48		W125 22M0 5% 0805 SMT RES			
C135		100N 50V 5%CAP 0805 SMT X7R	R49		W100 15K0 1% 0805 SMT RES			
C136		100N 50V 5%CAP 0805 SMT X7R	R55		W100 15K0 1% 0805 SMT RES			
C137		100N 50V 5%CAP 0805 SMT X7R	R56		W125 220K 5% 0805 SMT RES			
C138		100N 50V 5%CAP 0805 SMT X7R	R68		W100 1M0 1% 0805 SMT RES			
C139		100N 50V 5%CAP 0805 SMT X7R	R73		W125 1K02 0.1% 0805 SMT RES			
C140		100N 50V 5%CAP 0805 SMT X7R	R84		W100 10K0 1% 0805 SMT RES			
D2		CDSF4148 75V 0A15 1005 SMT	R85		W125 68K 5% 0805 SMT RES			
D3		CDSF4148 75V 0A15 1005 SMT	R86		W100 2K0 1% 0805 SMT RES			
D4		CDSF4148 75V 0A15 1005 SMT	R88		W125 5K6 1% 0805 SMT RES			
D5		CDSF4148 75V 0A15 1005 SMT	R89		W125 47K 5% 0805 SMT RES			
D6		CDSF4148 75V 0A15 1005 SMT	R90		W125 22K 5% 0805 SMT RES			
D7		CDSF4148 75V 0A15 1005 SMT	R91		W125 22K 5% 0805 SMT RES			
D9		CDSF4148 75V 0A15 1005 SMT	R92		W125 47K 5% 0805 SMT RES			
D10		CDSF4148 75V 0A15 1005 SMT	R93		W125 47K 5% 0805 SMT RES			
D11		CDSF4148 75V 0A15 1005 SMT	R94		W125 47K 5% 0805 SMT RES			
D15		CDSF4148 75V 0A15 1005 SMT	R95		W125 4K7 5% 0805 SMT RES			
D24		CDSF4148 75V 0A15 1005 SMT	R96		W100 27K4 1% 0805 SMT RES			
D31		CDSF4148 75V 0A15 1005 SMT	R97		W100 27K4 1% 0805 SMT RES			
D35		CDSF4148 75V 0A15 1005 SMT	R98		W100 27K4 1% 0805 SMT RES			
D39		CDSF4148 75V 0A15 1005 SMT	R107		W125 18K00 0.1% 0805 SMT RES			
D40		CDSF4148 75V 0A15 1005 SMT	R111		W125 470R 5% 0805 SMT RES			
D46		CDSF4148 75V 0A15 1005 SMT	R112		W125 4K7 5% 0805 SMT RES			
D47		CDSF4148 75V 0A15 1005 SMT	R113		W125 1K5 5% 0805 SMT RES			
D48		CDSF4148 75V 0A15 1005 SMT	R114		W100 27K4 1% 0805 SMT RES			
J1	4140	XLR MALE PCB MT VERT 24MM A-SERIES	R115		W125 82K5 1% 0805 SMT RES			
J2	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	R116		W100 2K74 1% 0805 SMT RES			
J3	4063	1/4IN ISO JCK PCMT VT STER RT SWT	R118		W100 2K21 1% 0805 SMT RES			
J7	4063	1/4IN ISO JCK PCMT VT STER RT SWT	R119		W100 274K 1% 0805 SMT RES			
L10		15.0UH COIL 0805 SMT	R120		W125 33K 5% 0805 SMT RES			
L11		15.0UH COIL 0805 SMT	R121		W100 10K0 1% 0805 SMT RES			
L12		15.0UH COIL 0805 SMT	R122		W100 2K32 1% 0805 SMT RES			
L13		15.0UH COIL 0805 SMT	R123		W125 0R 5% 0805 SMT RES			
LD1		GRN 3MM LED 2V2 20MA DIFFUSD	R124		W125 82K5 1% 0805 SMT RES			
LD2	6400	YEL 3MM LED 2V1 20MA DIFFUSD	R126		W100 10K0 1% 0805 SMT RES			
LD3	6405	RED 3MM LED 2V1 20MA DIFFUSD	R127		W100 10K0 1% 0805 SMT RES			
P1	2339	10K B LIN 12MM DUAL 21DET P34	R128		W100 1M0 1% 0805 SMT RES			
PSA1S		W250 0R 1206 SMT RES	R142		W100 10K0 1% 0805 SMT RES			
PTC1	6543	48R 265V RESETTABLE THERMISTOR PTC	R159		W100 1M0 1% 0805 SMT RES			
Q1		MMBT5401 PNP SOT-23 SMT	R164		W125 1K5 5% 0805 SMT RES			
Q2		MMBT3904 NPN SOT-23 SMT	R165		W125 30K 0.5% 0805 SMT RES			
Q4		MMBT3904 NPN SOT-23 SMT	R181		W125 30K 0.5% 0805 SMT RES			
Q5		MMBT3904 NPN SOT-23 SMT	R196		W100 4K99 1% 0805 SMT RES			




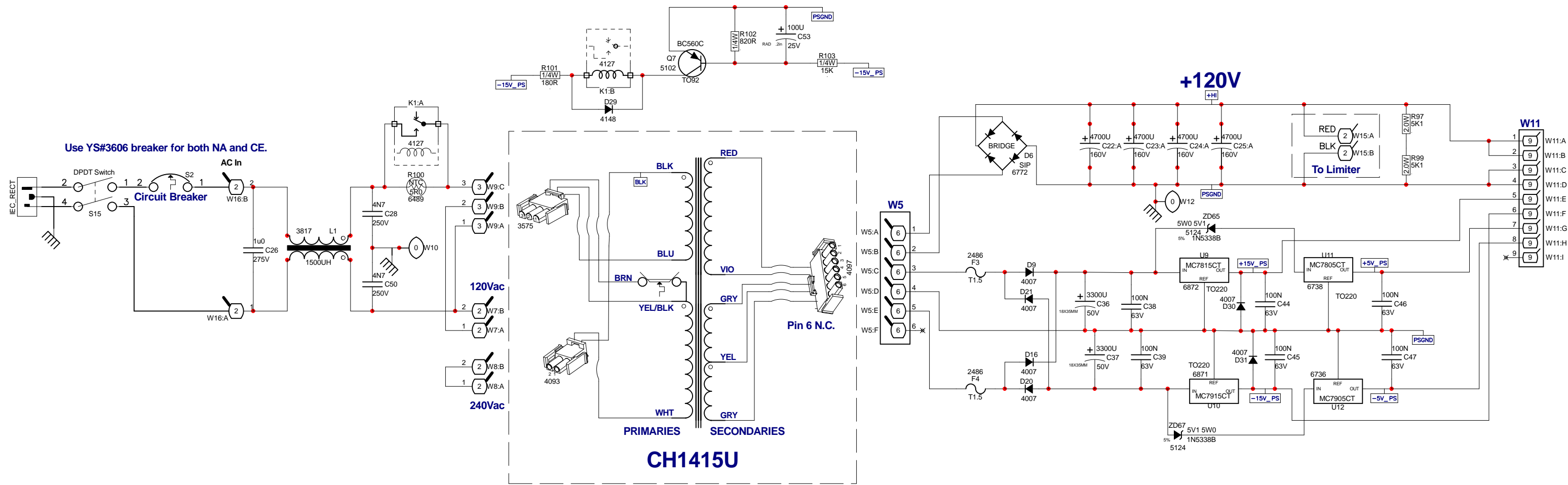
Product **PSA1S**

Preamp **PCB# M1449** **Sheet 1 of 4**

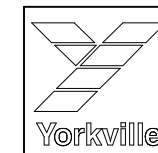
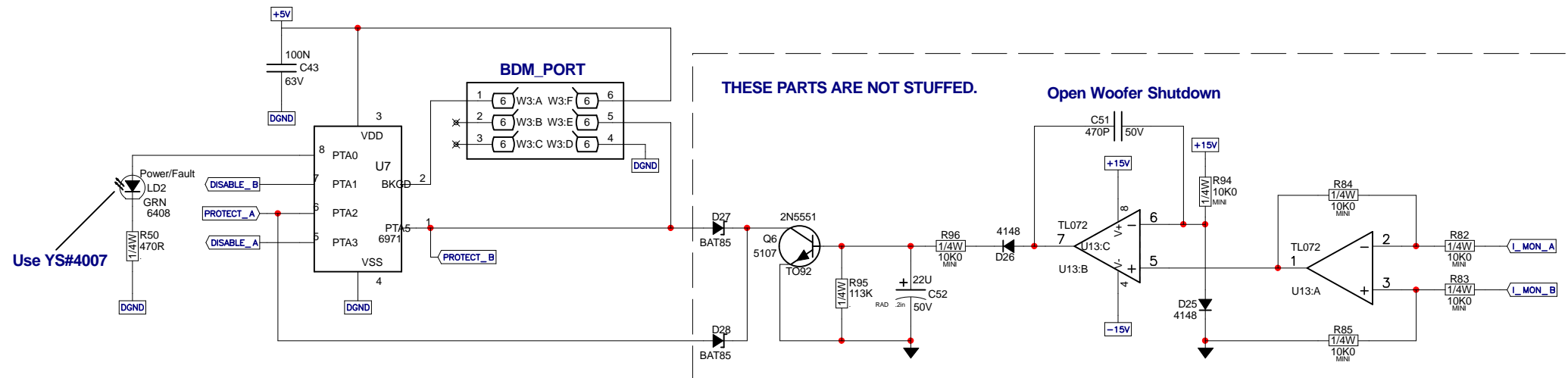
Date: Wed May 27, 2015 **Rev: V03** **YsType: YSL**

Filename: M1449V03sch.sch2006





Microcontroller (on preamp board)



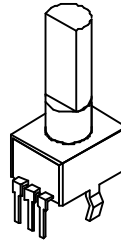
M1449 PCB HISTORY

MODEL(S):-		PSA1S	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	03-JUN-2011	V01	N
2	28-NOV-2011	V01	PC8329 - MARKED 'WOOFER SHUTDOWN' CIRCUIT PARTS AS DNS. - ML
3			PC8358 - YS#4100 XLR changed to YS#4135. - ML
4	19-DEC-2011	V02	Changed R65/R67 from YS#6459 to YS#5124. - ML
5	.	.	Renamed R65/R67 to ZD65/ZD67. - ML
6	.	.	Changed R39/R40 from YS#6123 to YS#6116. - ML
7	.	.	PC8313 - C44 moved away from U9. - ML
8	.	.	Force updated large PSU caps with slots. - ML
9	.	.	PC8447 - Changed C43 from 5216 to 5212. - ML
10	07-MAY-2012	.	PC8458 - Changed pot 4434 to 4459. - ML
11	12-JUL-2012	.	PC8519 - Several value changes. See PC. - ML
12	27-AUG-2013	.	PC8734: D30 and D31 added to U9 , U10 regulators.
13	09-FEB-2015	V03	

POTENTIOMETERS AND KNOBS

M1449 - POTS LIST

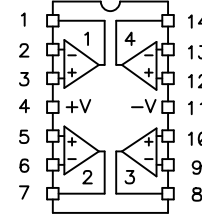
MODEL(S):-		PSA1S		
REF	FUNCTION	PART#	KNOB	STYLE
P1	Level	4432	8653	P32
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N



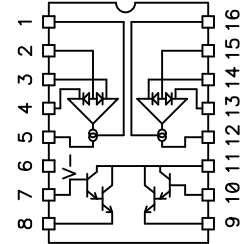
"STYLE P32"

LEADS & PINS REFERENCE

MC33079P (YS#6804)
TL074CN (YS#6889)



LM13600N (YS#6745)



2N5401 (YS#5108)
2N5551 (YS#5107)
MPSA06 (YS#5103)
MPSA13 (YS#5105)

BC560C (YS#5102)

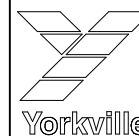
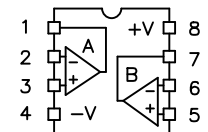
TL072CP (YS#6882)



E B C
TO-92



C B E
TO-92



Product

PSA1S

ECO

PCB# M1449

Sheet 4 of 4

Date: Wed May 27, 2015

Rev: V03

YsType: YSL

Filename: M1449V03sch.sch2006

A-1214 Power Amplifier YS#9702

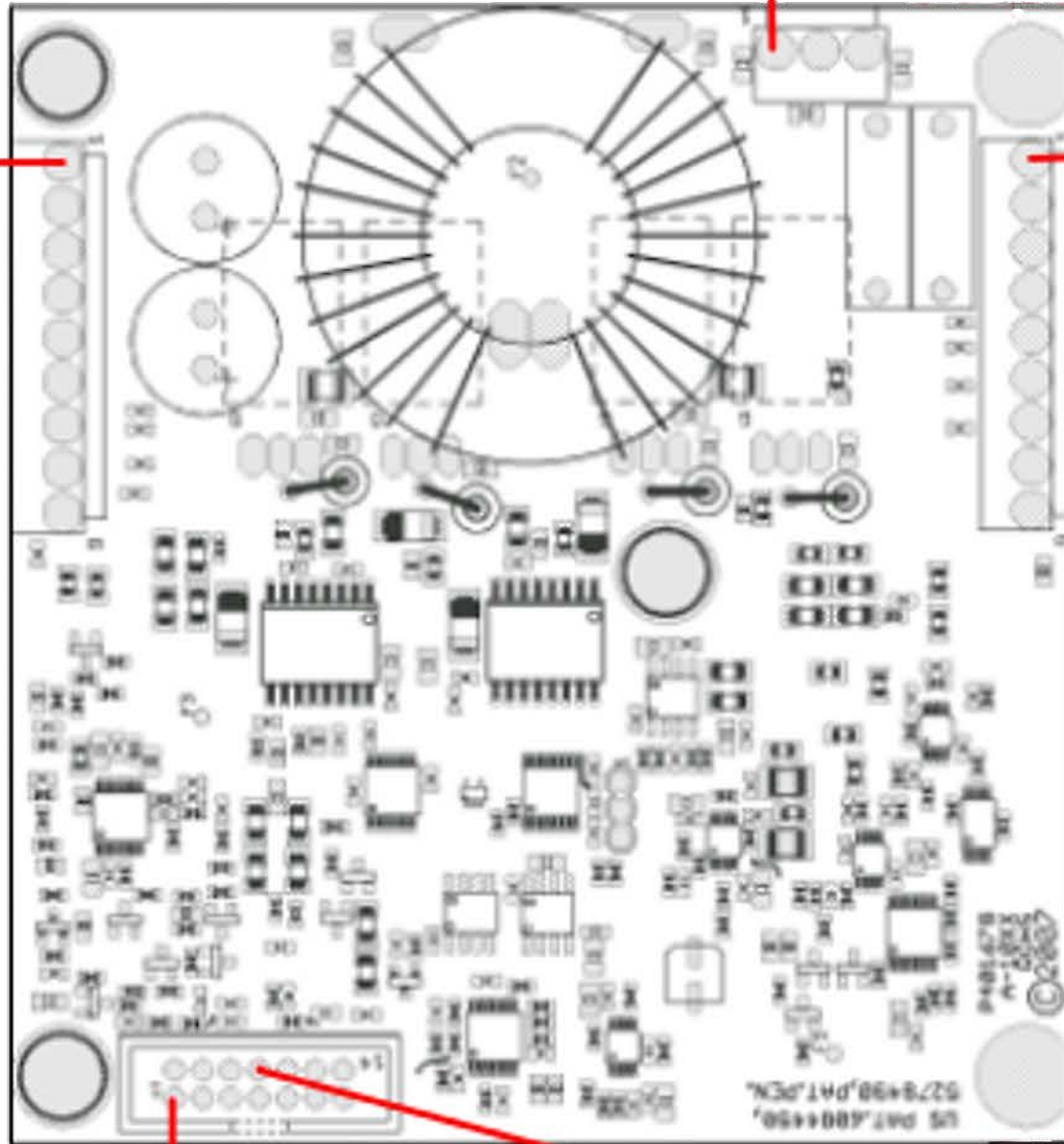
Important!

This module is not repairable

In case of failure it needs to be replaced.

Please order Yorkville Sound part # 9702

- Pin 1: Vbus
- Pin 2: Vbus
- Pin 3: Ground
- Pin 4: Ground
- Pin 5: +15 Vdc
- Pin 6: -15 Vdc
- Pin 7: +5Vdc
- Pin 8: -5Vdc
- Pin 9: Ground



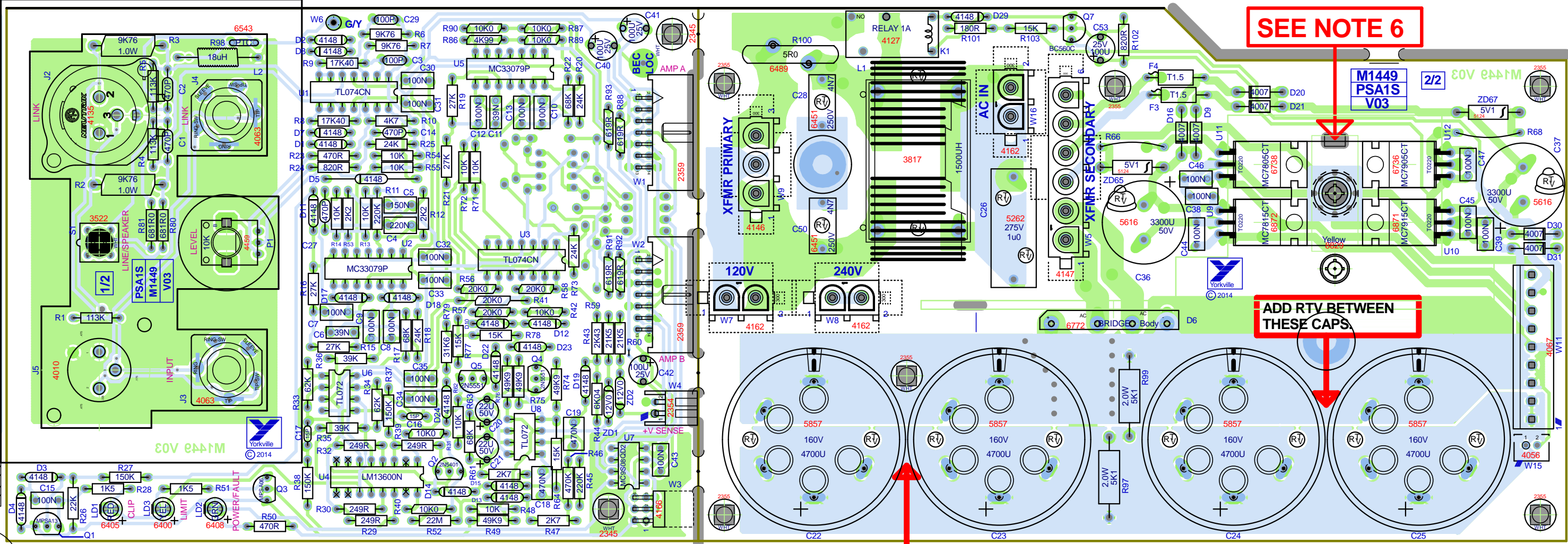
- Pin 1: Output +
- Pin 2: Ground
- Pin 3: Output -

- Pin 1: Vbus
- Pin 2: Vbus
- Pin 3: Ground
- Pin 4: Ground
- Pin 5: +15Vdc
- Pin 6: -15 Vdc
- Pin 7: +5 Vdc
- Pin 8: -5 Vdc
- Pin 9: Ground

- Pin 1: Ground
- Pin 2: Audio In +
- Pin 3: Audio In -
- Pin 4: Ground
- Pin 5: +15 Vdc
- Pin 6: -15 Vdc
- Pin 7: Ground

- Pin 8: Current Monitor
- Pin 9: Temperature Monitor
- Pin 10: Protect
- Pin 11: Disable
- Pin 12: Clip
- Pin 13: +5 Vdc
- Pin 14: -5 Vdc

BlankSize - 14500x10200



SEE NOTE 6

M1449
PSA1S
V03

ADD RTV BETWEEN
THESE CAPS

ADD RTV BETWEEN
THESE CAPS.

PSA1S

PSA1S

M1449 V03

SEE LAYOUT DOCUMENTATION



M1449 V03

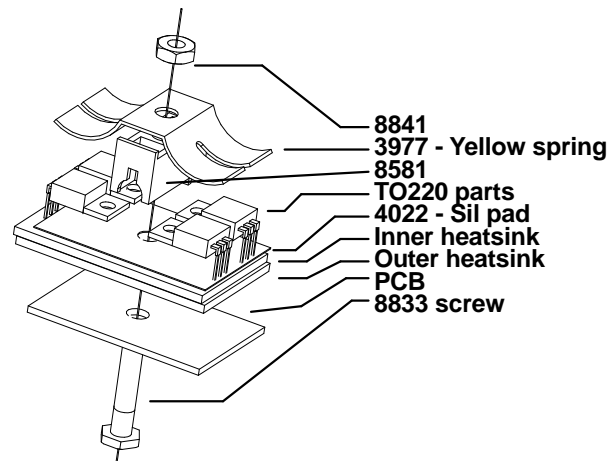
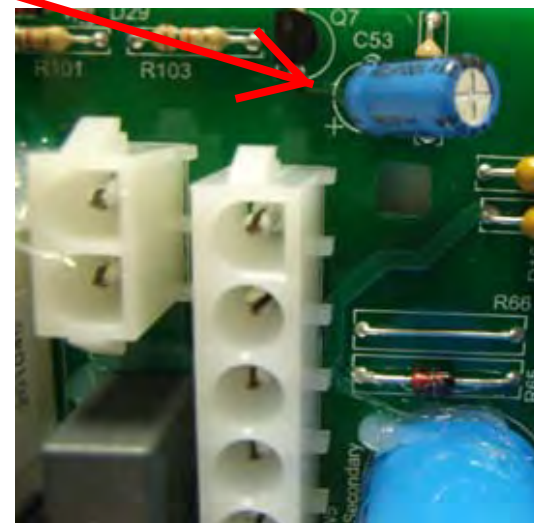


SEE LAYOUT DIAGRAM



M1449 V03 PRODUCTION NOTES

1. RTV must be applied to the following caps: C22,C23,C24,C25,C26,C28,C36,C37,C50.
2. Apply RTV between C22 and C23 as well as between C24 and C25.
3. RTV must be applied to inductor L1.
4. Apply RTV between C53 and R102 and bend C53 over R102 as in picture.
5. Place U10 and U12 aligned on the SIL pad.
No shorts to the heatsink are allowed.
6. Mount the TO-220 retaining spring as per the diagram below:
NOTE: NUT IS ON TOP!



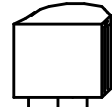


SEE LAYOUT DIAGRAM



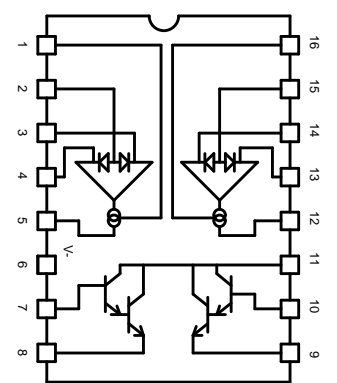
LEADS & PINS REFERENCE

2N5401 (YS#5108)
2N5551 (YS#5107)
MPSA06 (YS#5103)
MPSA13 (YS#5105)



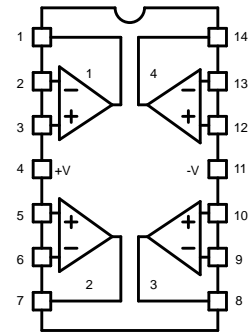
E B C
TO-92

LM13600N (YS#6745)

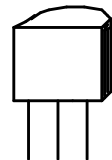


MC33079P (YS#6804)

TL074CN (YS#6889)

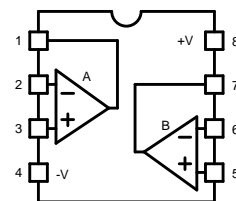


BC560C (YS#5102)



C B E
TO-92

TL072CP (YS#6882)

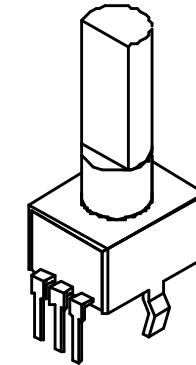


POTENTIOMETERS AND KNOBS

M1449 - POTS LIST

MODEL(S):- PSA1S

REF	FUNCTION	PART#	KNOB	STYLE
P1	LEVEL	4432	8653	P32
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
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
R	F	P	K	N



"STYLE_P32"

M1449 PCB HISTORY

MODEL(S):- PSA1S

#	DATE	VER#	DESCRIPTION OF CHANGE
1	03-JUN-2011	V01	N
2	28-NOV-2011	V01	PC8329 - MARKED 'WOOFER SHUTDOWN' CIRCUIT PARTS AS DNS. - ML
3	.	.	PC8358 - YS#4100 XLR changed to YS#4135. - ML
4	19-DEC-2011	V02	Changed R65/R67 from YS#6459 to YS#5124. - ML
5	.	.	Renamed R65/R67 to ZD65/ZD67. - ML
6	.	.	Changed R39/R40 from YS#6123 to YS#6116. - ML
7	.	.	PC8313 - C44 moved away from U9. - ML
8	.	.	Force updated large PSU caps with slots. - ML
9	.	.	PC8447 - Changed C43 from 5216 to 5212. - ML
10	07-MAY-2012	.	PC8458 - Changed pot 4434 to 4459. - ML
11	12-JUL-2012	.	PC8519 - Several value changes. See PC. - ML
12	27-AUG-2013	.	PC8734: D30 and D31 added to U9 , U10 regulators.
13	09-FEB-2015	V03	

A-1214 Power Amplifier YS#9702

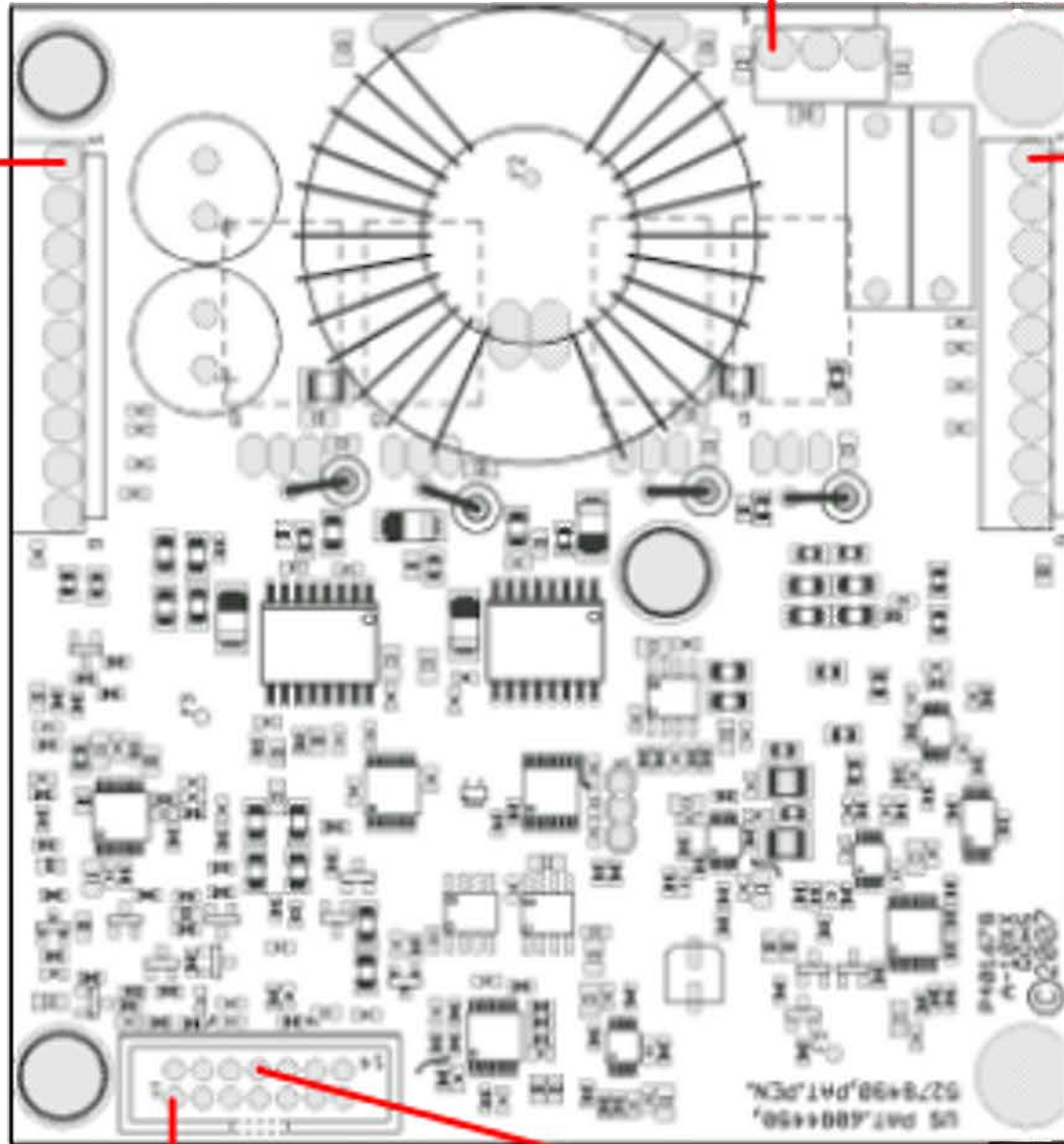
Important!

This module is not repairable

In case of failure it needs to be replaced.

Please order Yorkville Sound part # 9702

- Pin 1: Vbus
- Pin 2: Vbus
- Pin 3: Ground
- Pin 4: Ground
- Pin 5: +15 Vdc
- Pin 6: -15 Vdc
- Pin 7: +5Vdc
- Pin 8: -5Vdc
- Pin 9: Ground

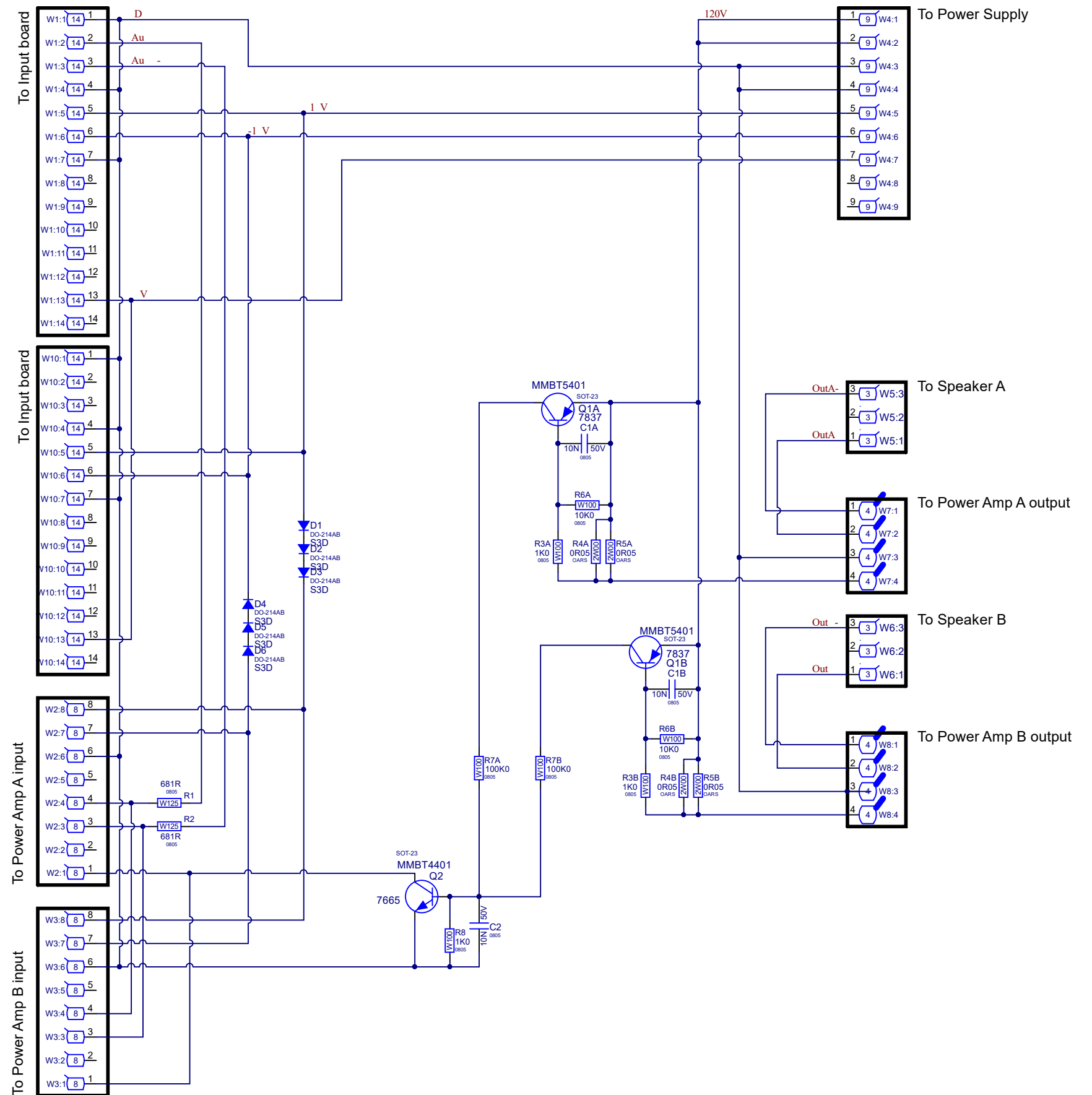


- Pin 1: Output +
- Pin 2: Ground
- Pin 3: Output -

- Pin 1: Vbus
- Pin 2: Vbus
- Pin 3: Ground
- Pin 4: Ground
- Pin 5: +15Vdc
- Pin 6: -15 Vdc
- Pin 7: +5 Vdc
- Pin 8: -5 Vdc
- Pin 9: Ground

- Pin 1: Ground
- Pin 2: Audio In +
- Pin 3: Audio In -
- Pin 4: Ground
- Pin 5: +15 Vdc
- Pin 6: -15 Vdc
- Pin 7: Ground

- Pin 8: Current Monitor
- Pin 9: Temperature Monitor
- Pin 10: Protect
- Pin 11: Disable
- Pin 12: Clip
- Pin 13: +5 Vdc
- Pin 14: -5 Vdc



DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	27-MAR-2019	V01	.	RELEASE FOR PRODUCTION
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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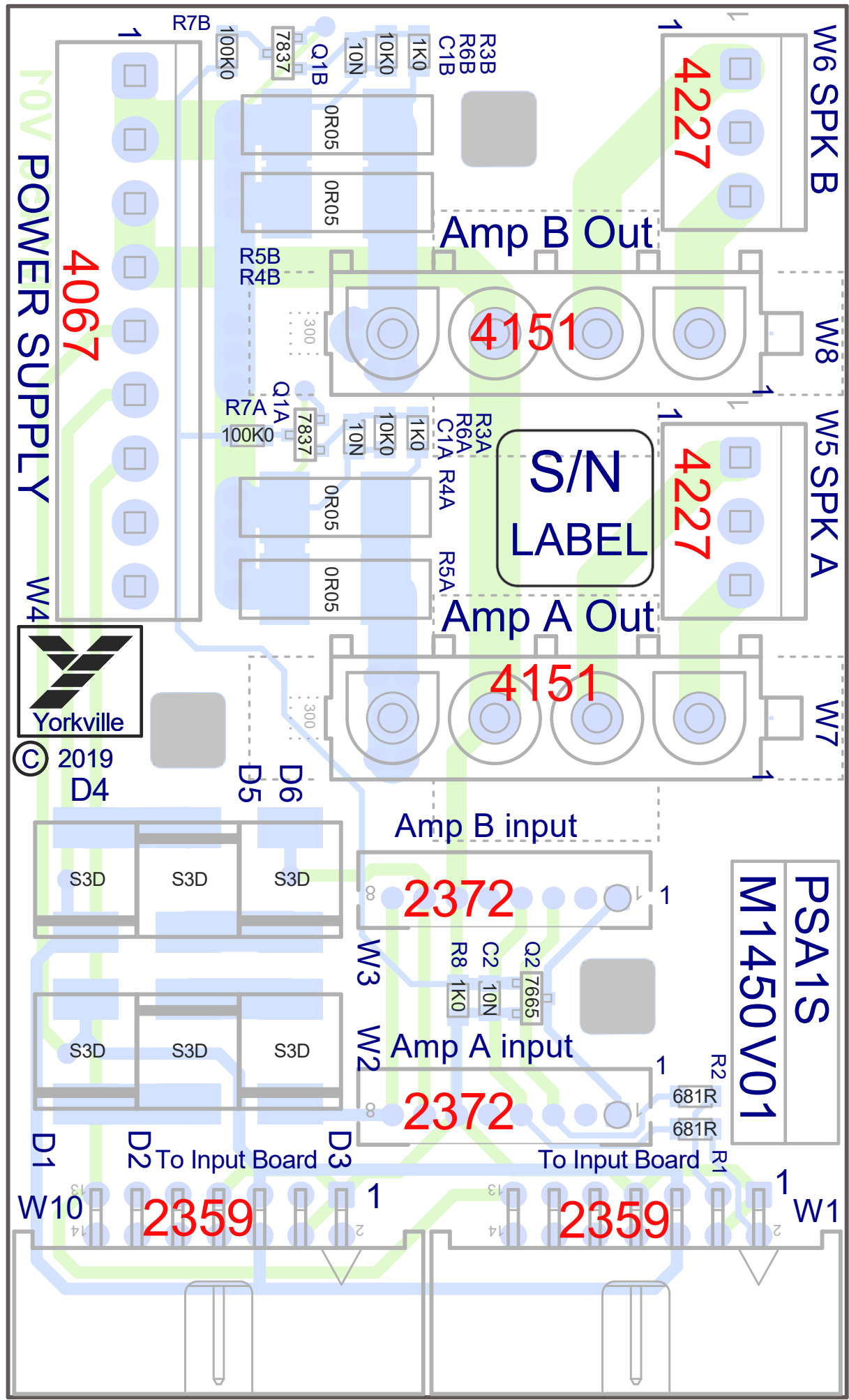
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
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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.



PSA1S M1450 V01



© 2019
D4

10V POWER SUPPLY
4067

S/N LABEL

Amp B Out

Amp A Out

Amp B input

Amp A input

PSA1S
M1450 V01

W6 SPK B

W8

W5 SPK A

W7

W3

W2

To Input Board

To Input Board

D1

D2

D3

D4

D5

D6

W10

2359

2359

W1

4227

4227

4151

4151

2372

2372

R7B

100K0

Q1B

7837

10N

10K0

1K0

R3B

R6B

C1B

0R05

0R05

R5B

R4B

R7A

100K0

Q1A

7837

10N

10K0

1K0

R3A

R6A

C1A

0R05

0R05

R5A

R4A

D5

D6

S3D

S3D

S3D

S3D

S3D

S3D

Q2

7665

10N

C2

1K0

R8

R2

681R

681R

R1

681R

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14

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14

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2

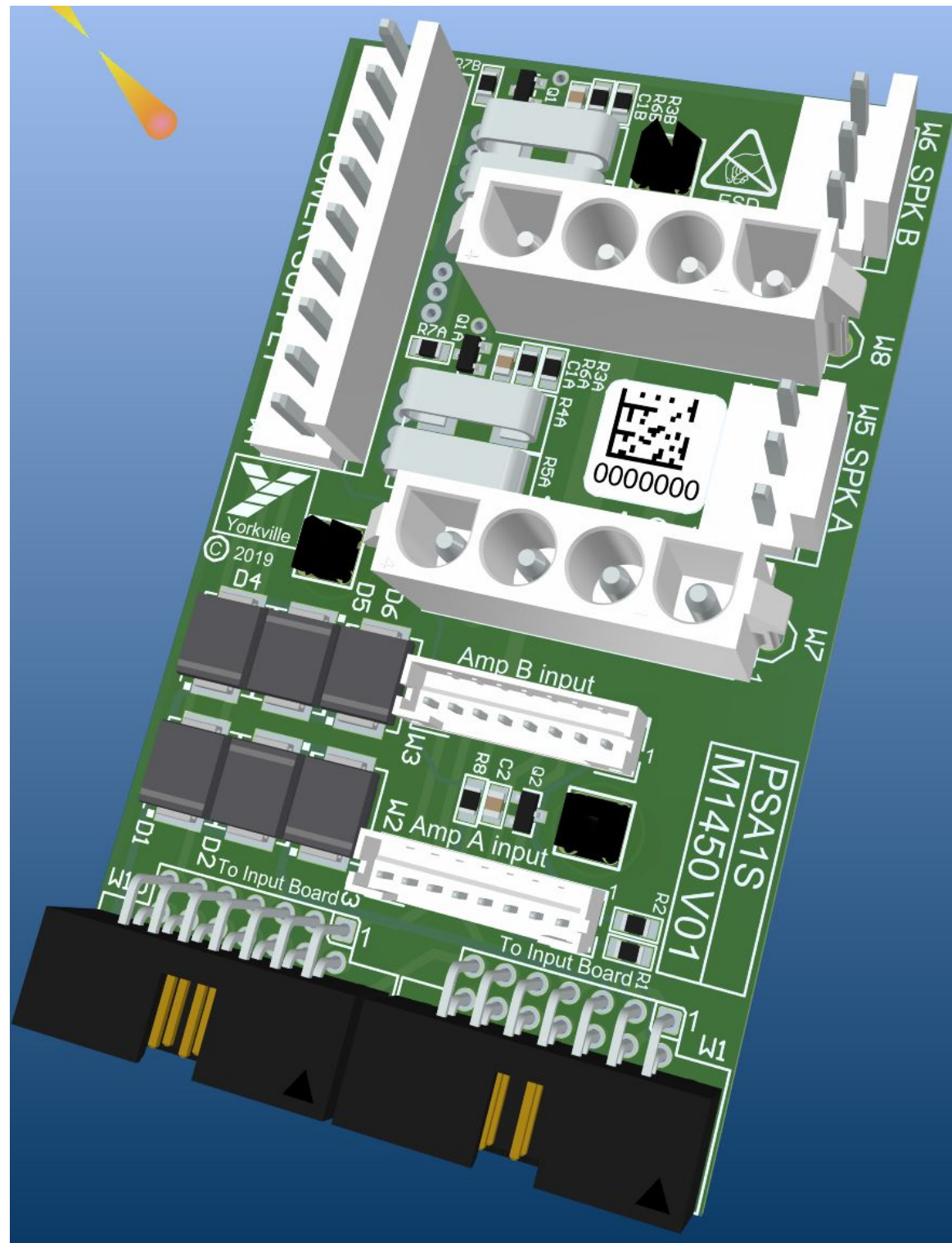
13

14

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. Use pizza cutter to separate board from panel where possible.



PCB HARDWARE

SCREWS AND BOLTS

NUTS

STANDOFFS

MISCELLANEOUS



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



Section: **Assembly Documentation**

Product(s): **PSA1S**

PCB#: M1450

Rev#: V01

EML Rev#: 01

Sheet 1 Of *

Modified: 2019-03-27

File: Assembly.SchDoc

Tmp Rev: V032

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	27-MAR-2019	V01	.	RELEASE FOR PRODUCTION
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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POTENTIOMETERS AND KNOBS

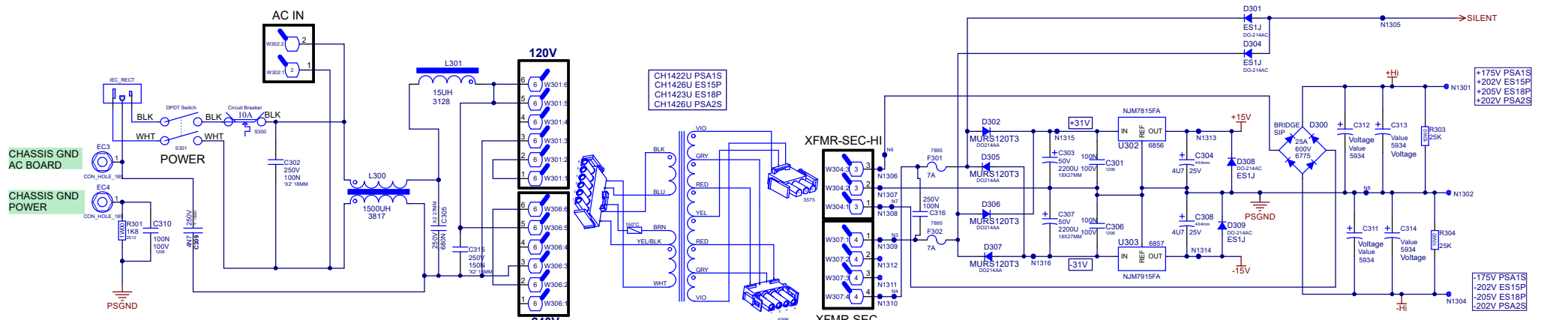
POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
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PINOUT DIAGRAMS

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

POWER SUPPLY

TO POWER AMP PCB



CHASSIS GND
AC BOARD

CHASSIS GND
POWER

CH1422U PSA1S
CH1426U ES15P
CH1423U ES18P
CH1426U PSA2S

XFMR-SEC-HI

XFMR-SEC

+175V PSA1S
+202V ES15P
+205V ES18P
+202V PSA2S

-175V PSA1S
-202V ES15P
-205V ES18P
-202V PSA2S

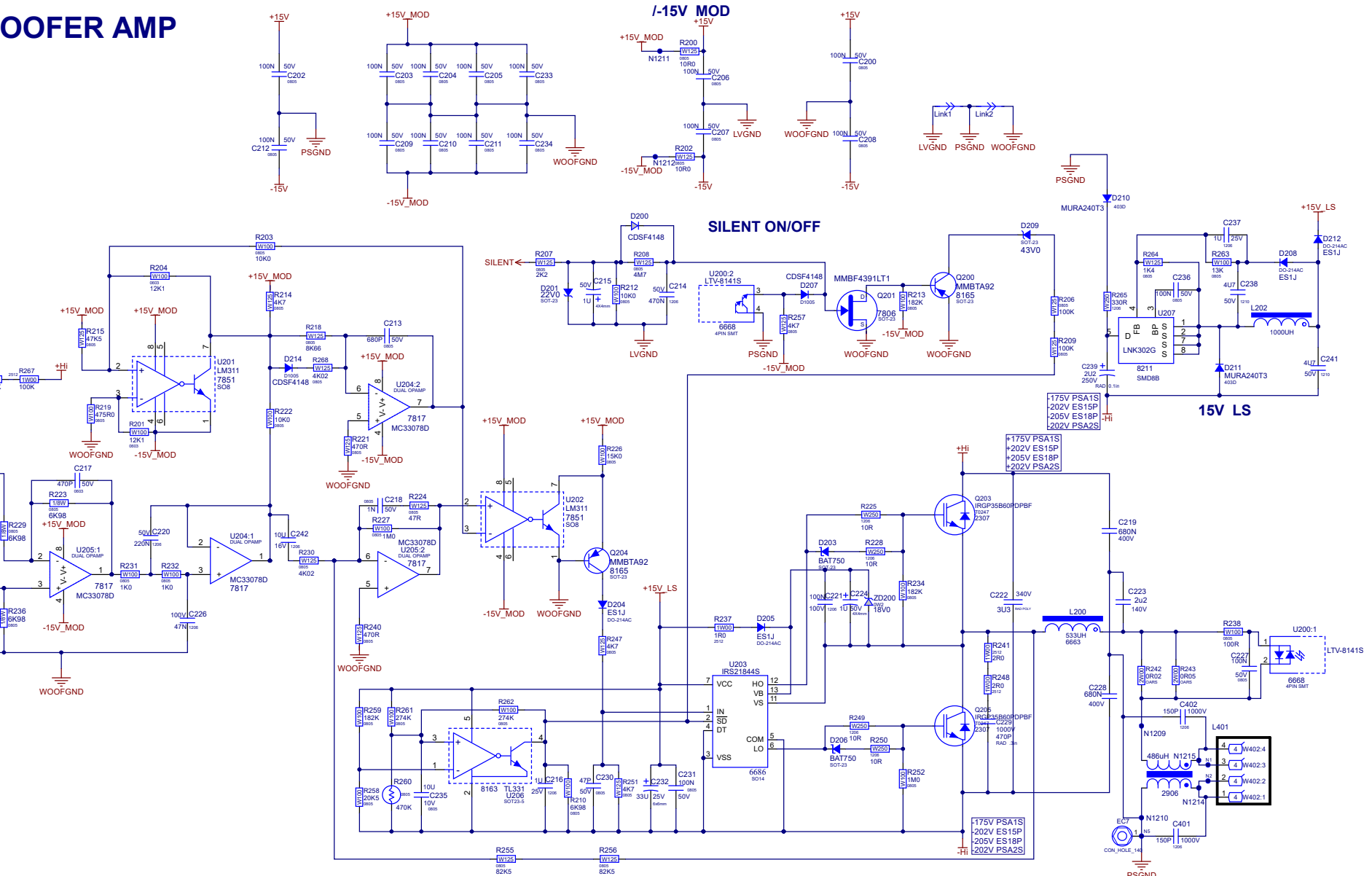
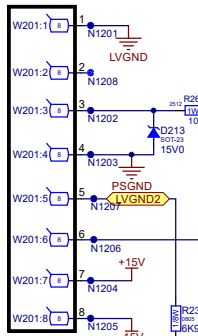
Variant name not interpreted

Section: Power Supply			
Product(s): ES12P/ES15P/ES18P/ES21P/PSA1S/PSA2S			
PCB#:	Rev#: V03	BOM Rev#: 01	Sheet: 3 of 4
Date Modified: 2018-10-09		Filename: Supply.SCHDOC	



SUBWOOFER AMP

FROM INPUT PCB



YS#3114



- WOOFER
- 2 12 4R 600WPGM #7545 PSA1S
 - 2 15 8R 1000WPGM #7447 PSA2S
 - 15 4R 2800WPGM #7470 ES18P
 - 18 6R 1200WPGM #7420 ES18P

Variant name not interpreted

	Section: Woofer Amp
	Product(s): ES12P/ES15P/ES18P/ES21P/PSA1S/PSA2S
	PCB#: Rev# V03 BOM Rev# 01 Sheet 2 Of 4
	Date Modified: 2018-10-09 Filename: Amp_SCHDOC

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	27-OCT-2016	V01		RELEASED FOR PRODUCTION
2	07-JUL-2017	V01	9077	REMOVE SIL PADS YS# 3797 AND CHANGE SCREW 8741 TO 8871
3	2-NOV-2017	V01	9114	Changed R225 and R249 from 22R(YS#7930) to 10R (YS#7852)
4				Changed D203A and D206A from BAT54 (YS#7944) to BAT750 (YS#9106)
5				Change R219 from 470R (YS#7856) to 475R (YS#7673)
6				Change R264 from 1K62 (YS#8137) to 1K4 (YS#9107)
7				Add 12K1 0603 resistor (YS#7761) between pin 3 and pin 4 of U201
8				For M1693 PCB Only:
9				Change Q203A and Q205A from IRGP50B60PDPbF (YS#2385) to
10				IRGP50B60PD1PbF (YS#2496)
11	10-NOV-2017	V01	9134	For M1692 PCB Only:
12				Change Q203A and Q205A from IRGP50B60PDPbF (YS#2385) to
13				IRGP50B60PD1PbF (YS#2496)

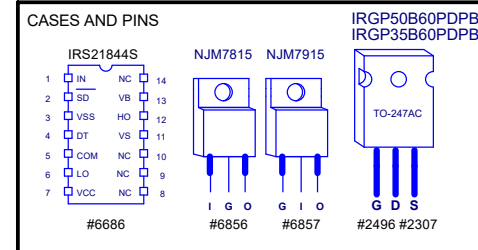
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	26-NOV-2017	V02	9114	Add two 150pF 100V capacitors (YS#5982) between PS_GND and pin 1 and pin 4 of W402
2				Change C309 connection from before L300 to after L300
3	20-DEC-2017	V02		Added M1690(ES21P) and M1691(ES12P) to board
4	18-DEC-2017	V02		Added 5 test points for Test & Repair
5	22-DEC-2017	V02		V02 Released
6	02-APR-2018	.	9196	Replace screw #8761 (zinc) with #8835 (tin)
7	01-SEP-2018	V03		X8024 Board - De-Exed
8		V03	9284	Added C316, L301, and C315 for EMI Improvements
9	09-OCT-2018	V03		V03 Released
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS AND KNOBS				
REF	FUNCTION	POT#	STYLE	KNOB#
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PINOUT DIAGRAMS



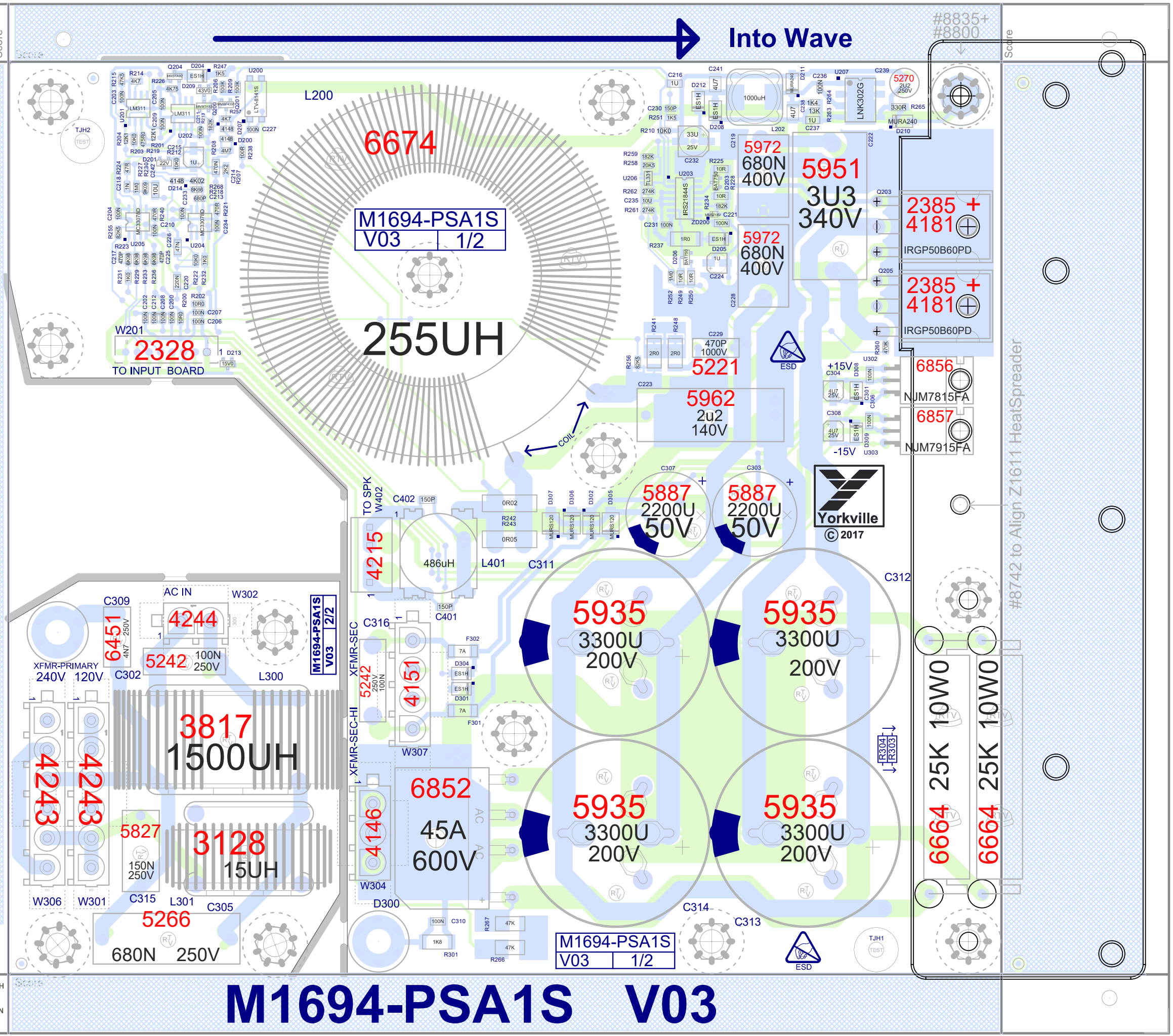
THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.



Section:	Design Information And History		
Product(s):	ES12P/ES15P/ES18P/ES21P/PSA1S/PSA2S		
PCB#:	Rev#:	EML Rev#:	Sheet 2 of 3
Modified: 2018-10-09	File:	History.SchDoc	Temp Rev: V028

BlankSize - 261mmX222mm(10276X8740)

Into Wave



M1694-PSA1S V03

CLINCH ORIGIN

#8742 to Align Z1611 HeatSpreader

6664 25K 10W0
6664 25K 10W0

2385 +
4181 +
IRGP50B60PD
2385 +
4181 +
IRGP50B60PD

6856
NJM7815FA
6857
NJM7915FA



M1694-PSA1S
V03 1/2

M1694-PSA1S
V03 1/2

2328
TO INPUT BOARD

3817
1500UH

3128
15UH

680N 250V

255UH

6674

5935
3300U
200V

5935
3300U
200V

5935
3300U
200V

5935
3300U
200V

5887
2200U
50V

5887
2200U
50V

5962
2u2
140V

5972
680N
400V

5951
3U3
340V

#8835+
#8800

Score

Score

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Score

PCB ASSEMBLY DOCUMENTATION

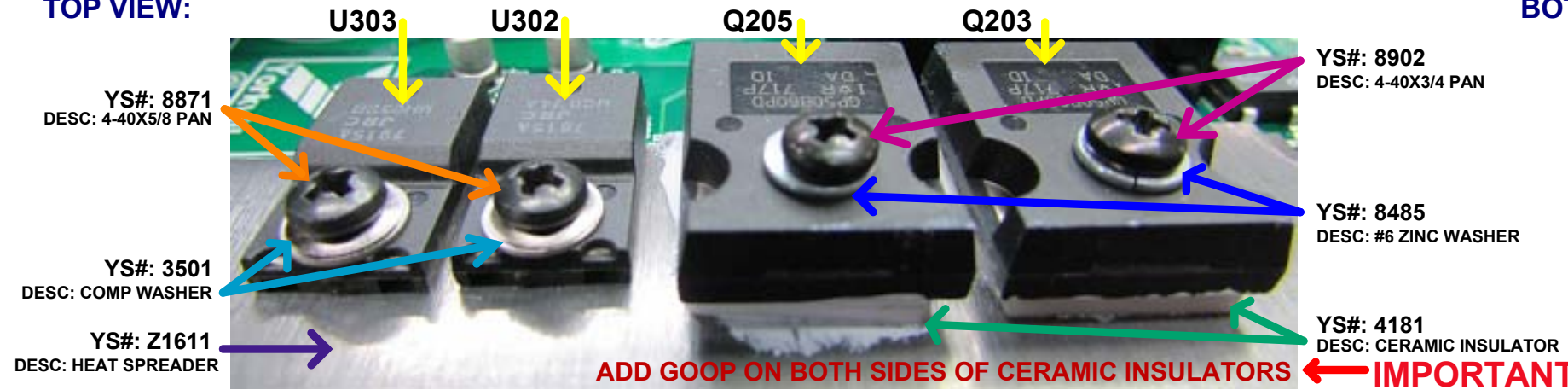
MOUNTING HARDWARE & INSTRUCTIONS FOR HEAT SPREADER ZC1611:

- 1- First install #8742 screw to align heatspreader ZC1611
- 2- Install all devices on Heat Spreader
- 3- Install #8800 and #8835 for grounding. Nut up.

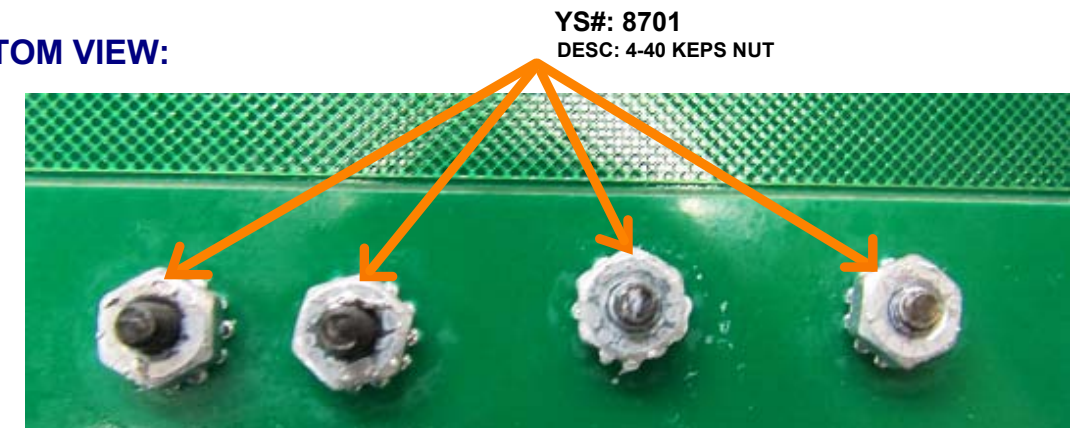


MOUNTING HARDWARE FOR U302/U303 AND Q203/Q205:

TOP VIEW:

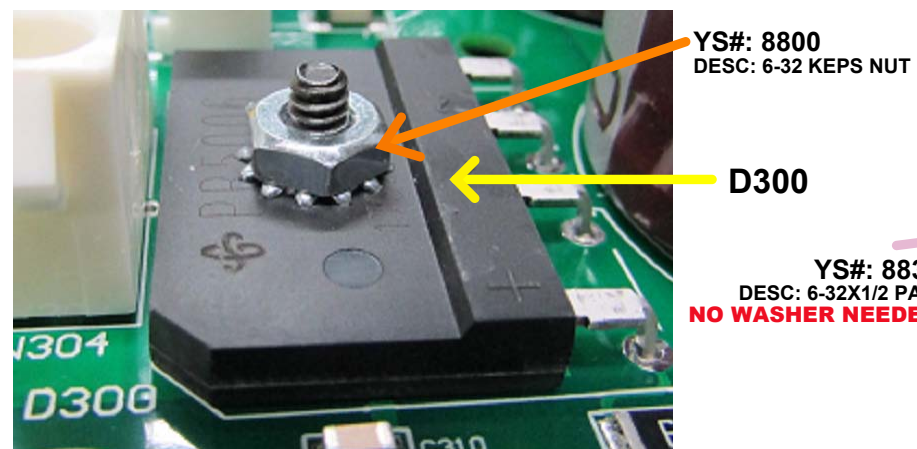


BOTTOM VIEW:

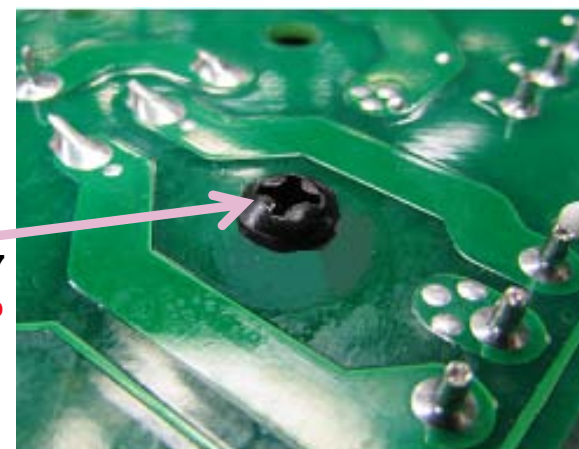


MOUNTING HARDWARE FOR D300:

TOP VIEW:

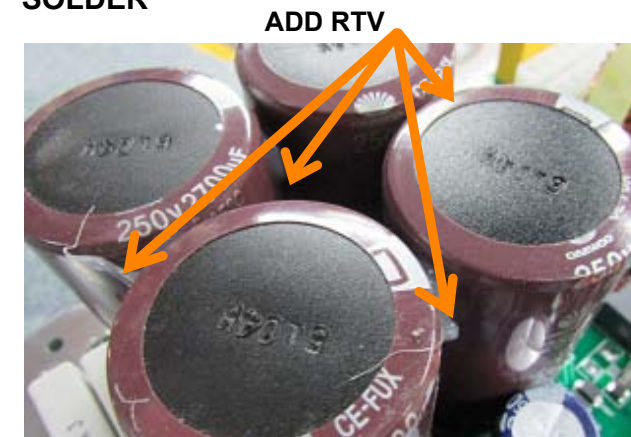


BOTTOM VIEW:



RTV INSTRUCTIONS:

ADD RTV BETWEEN:
C311, C312, C313 and C314 AFTER WAVE
SOLDER



Add RTV UNDER R303 AND R304 on the
heatspreader
**IMPORTANT: Keep the resistors away
from the nearby capacitors (C312, C313)**

DESIGN HISTORY AND INFORMATION

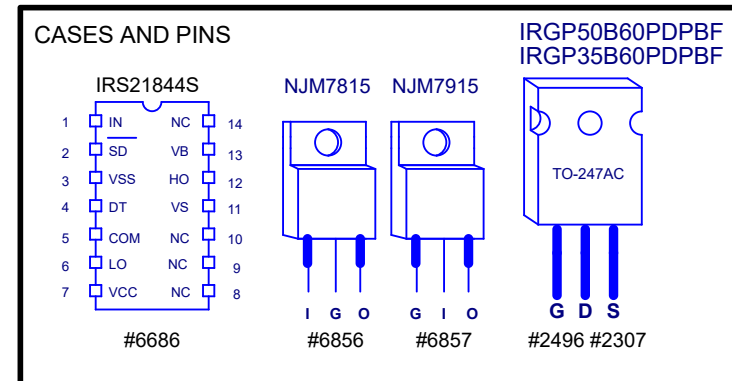
CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	27-OCT-2016	V01		RELEASED FOR PRODUCTION
2	07-JUL-2017	V01	9077	REMOVE SIL PADS YS# 3797 AND CHANGE SCREW 8741 TO 8871
3	2-NOV-2017	V01	9114	Changed R225 and R249 from 22R(YS#7930) to 10R (YS#7852)
4				Changed D203A and D206A from BAT54 (YS#7944) to BAT750 (YS#9106)
5				Change R219 from 470R (YS#7856) to 475R (YS#7673)
6				Change R264 from 1K62 (YS#8137) to 1K4 (YS#9107)
7				Add 12K1 0603 resistor (YS#7761) between pin 3 and pin 4 of U201
8				For M1693 PCB Only:
9				Change Q203A and Q205A from IRGP50B60PDPbF (YS#2385) to
10				IRGP50B60PD1PbF (YS#2496)
11	10-NOV-2017	V01	9134	For M1692 PCB Only:
12				Change Q203A and Q205A from IRGP50B60PDPbF (YS#2385) to
13				IRGP50B60PD1PbF (YS#2496)
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	26-NOV-2017	V02	9114	Add two 150pF 100V capacitors (YS#5982) between PS_GND and pin 1 and pin 4 of W402
2				Change C309 connection from before L300 to after L300
3	20-DEC-2017	V02		Added M1690(ES21P) and M1691(ES12P) to board
4	18-DEC-2017	V02		Added 5 test points for Test & Repair
5	22-DEC-2017	V02		V02 Released
6	02-APR-2018	.	9196	Replace screw #8761 (zinc) with #8835 (tin)
7	01-SEP-2018	V03	.	X8024 Board - De-Exed
8	.	V03	9284	Added C316, L301, and C315 for EMI Improvements
9	09-OCT-2018	V03	.	V03 Released
10	01-FEB-2019	.	9277	Changed W301, W306 to YsPart# 4243 and W302 to YsPart# 4244
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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POTENTIOMETERS AND KNOBS

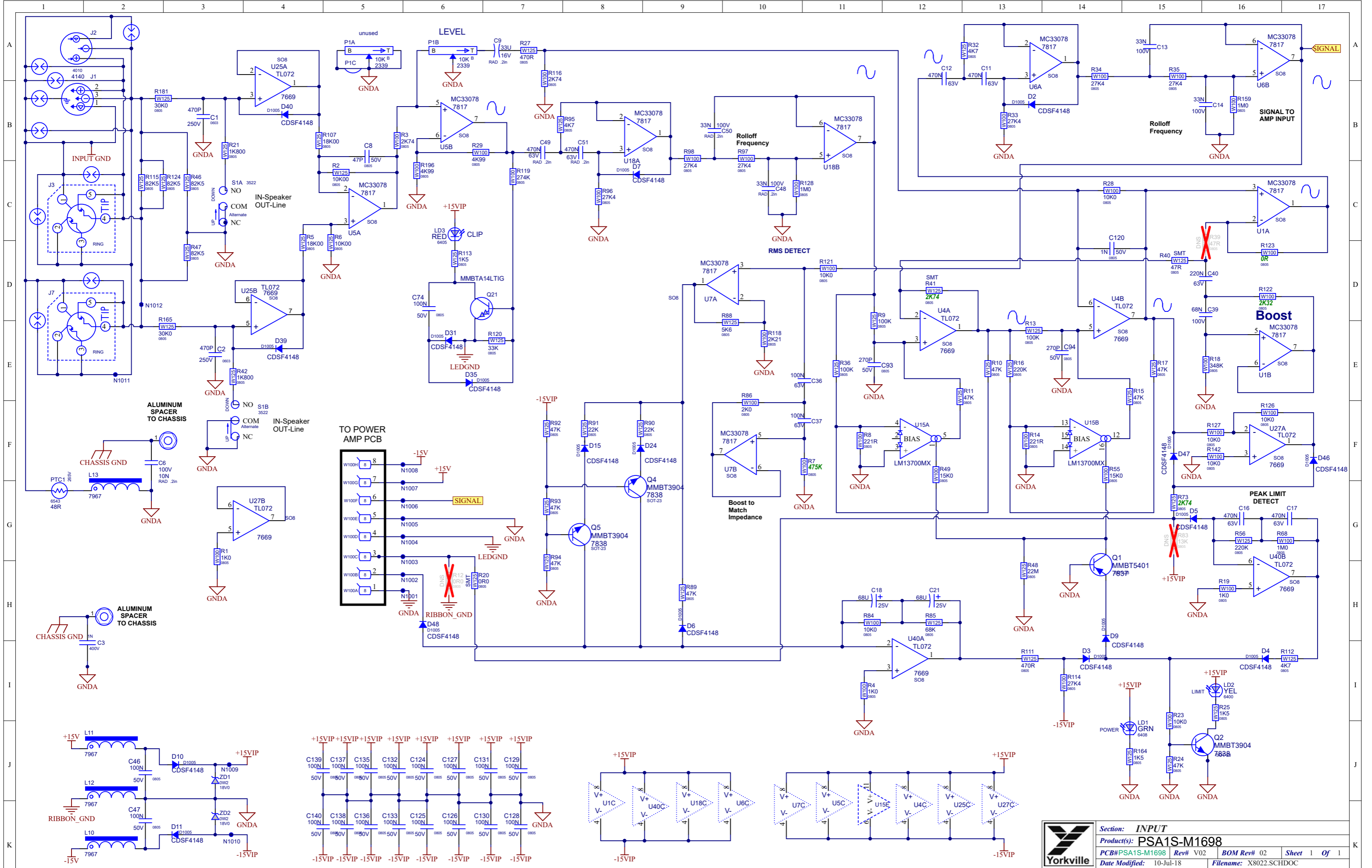
POTENTIOMETERS AND KNOBS				
REF	FUNCTION	POT#	STYLE	KNOB#
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PINOUT DIAGRAMS



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





DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	15-SEP-2014	V01	.	.
2	07-JUL-2017	V02	9039	Add M1698-PSA1S and M1699-PSA2S
3	14-JUN-2018	V02	9193	R18 from 348k #7687 to 200k #7685 R32 from 4k7 #7860 to 6k2 #8274
4	.	.	.	R33 from 27k4 #7636 to 20k5 #7634
5	10-JUL-2018	.	8997	Add RTV to parts C18, C21, C9 and PTC1
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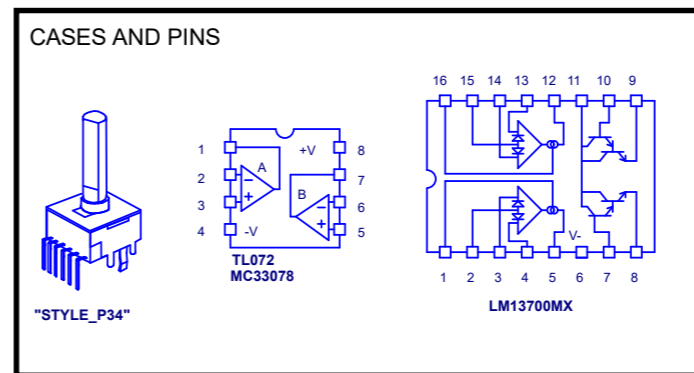
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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POTENTIOMETERS AND KNOBS

REF	FUNCTION	POT#	STYLE	KNOB#
P1	LEVEL	2339	P34	8653
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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.



Section: Design Information And History

Product(s): PS SUBS INPUT BOARD

PCB#: X8022

Rev#: V02

EML Rev#: 02

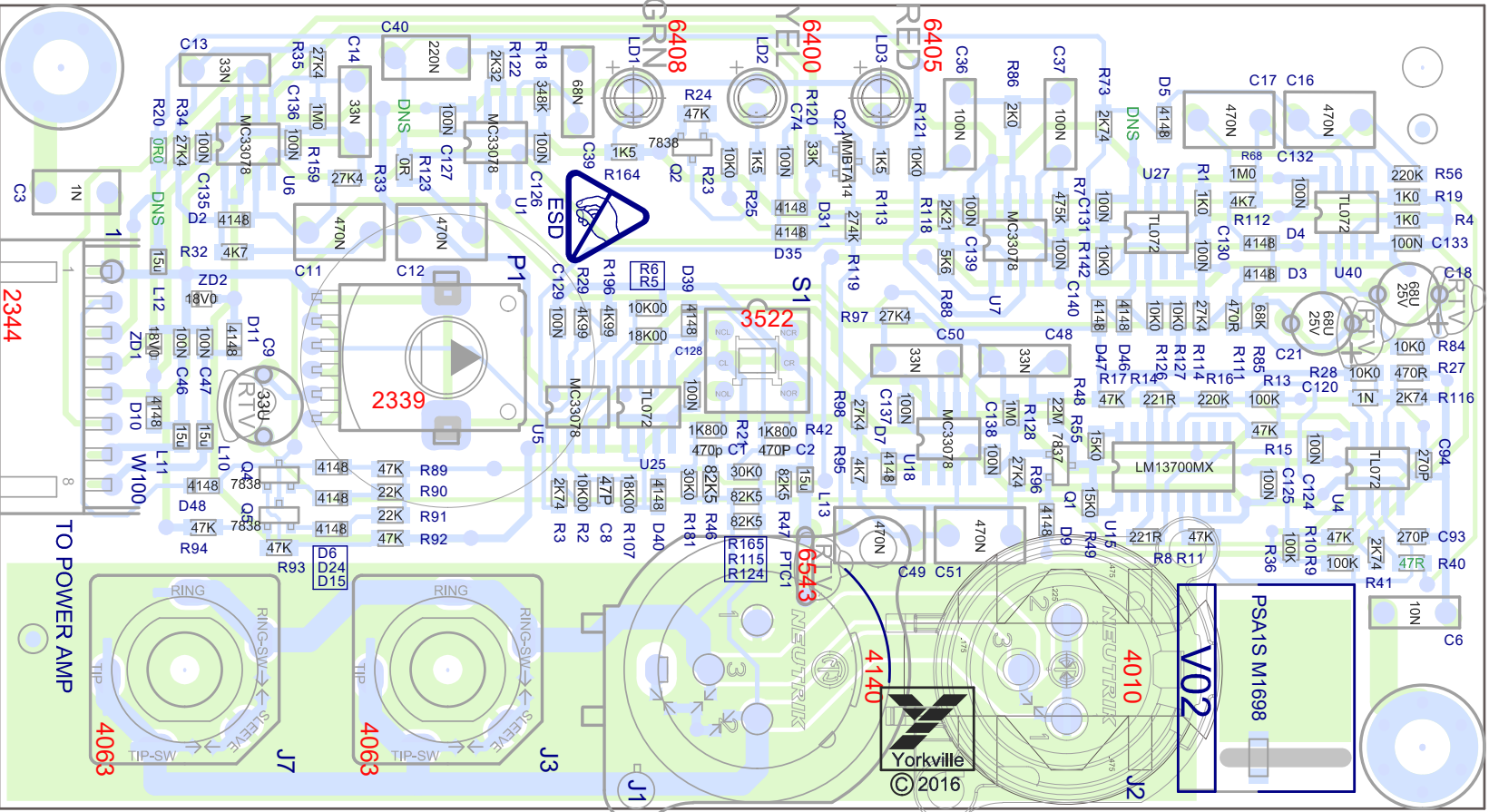
Sheet 1 Of 2

Modified: 10-Jul-18

File: History.SchDoc

Tmp Rev: TemplateRev

PSA1S-M1698V02



PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. THIS BOARD IS FOR :

M1596 FOR PS12S

M1597 FOR PS15S

M1598 FOR PS18S

M1698 FOR PSA1S

M1699 FOR PSA2S

SEE SMT JUMPERS TO IDENTIFY

2. ADD RTV TO COMPONENTS WHERE INDICATED

PCB HARDWARE

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



Section: Assembly Documentation			
Product(s): PS SUBS			
PCB#: X8022	Rev#: V02	EML Rev#: 02	Sheet 1 Of *
Modified: 10-Jul-18	File: Assembly.SchDoc	Tmp Date: 03/15/2013	

DESIGN HISTORY AND INFORMATION

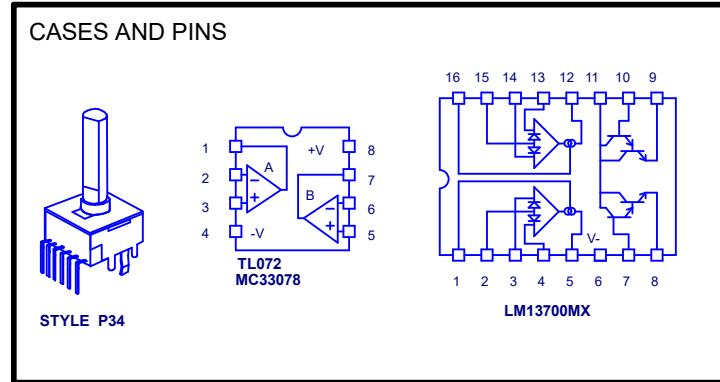
CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	15-SEP-2014	V01	.	.
2	07-JUL-2017	V02	9039	Add M1698-PSA1S and M1699-PSA2S
3	14-JUN-2018	V02	9193	These changes for M1596 - PS12S Only... R18 from 348k #7687 to 200k #7685
4	.	.	.	R33 from 27k4 #7636 to 20k5 #7634 , R32 from 4k7 #7860 to 6k2 #8274
5	10-JUL-2018	.	8997	Add RTV to parts C18, C21, C9 and PTC1
6	23-JUL-2019	.	9300	All changes for PC9300 are for M1699 - PSA2S only
7	.	.	.	R33 - from 27K4 (#7636) to 20K5 (#7634) R41 - from 2K74 (#7745) to 4K75 (#7642)
8	.	.	.	R73 - from 1K62 (#8137) to 2K0 (#7676) R86 - from 2K0 (#7676) to 6K98 (#7680)
9	.	.	.	R111 - from 470R (#7856) to 348R (#7672) R122 - from 2K32 (#7632) to 2K74 (#7745)
10	.	.	.	C36 - from 100n 63V (#5212) to 47n 63V (#5224)
11	.	.	.	C37 - from 100n 63V (#5212) to 47n 63V (#5224)
12	.	.	.	from 348K (#7687) to 274K (#7686) R32 - from 4K7 (#7860) to 6K2 (#8274)
13
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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POTENTIOMETERS AND KNOBS

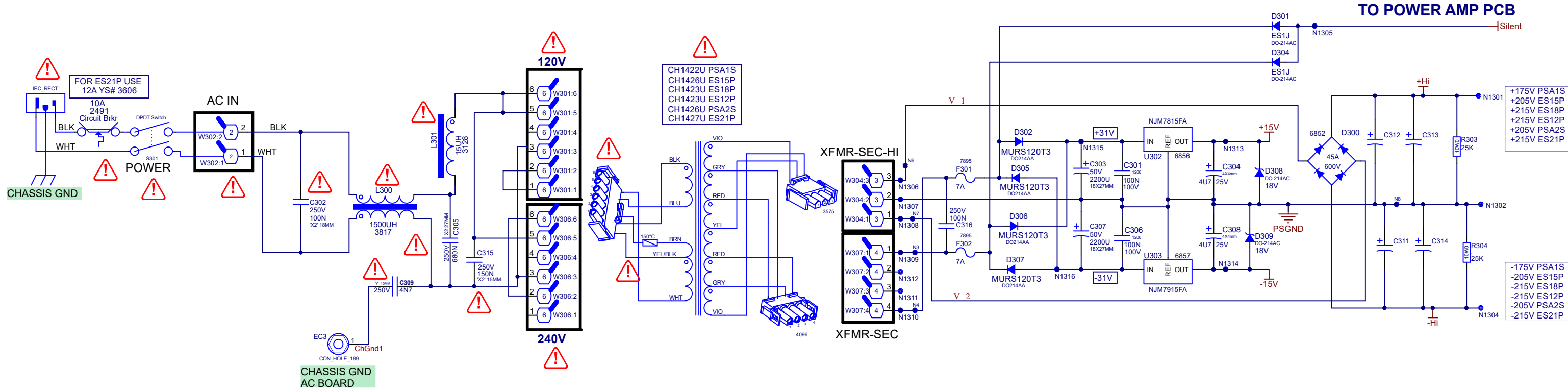
POTENTIOMETERS AND KNOBS				
REF	FUNCTION	POT#	STYLE	KNOB#
P1	LEVEL	2339	P34	8653
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PINOUT DIAGRAMS




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

POWER SUPPLY

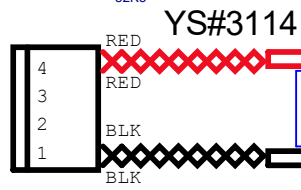
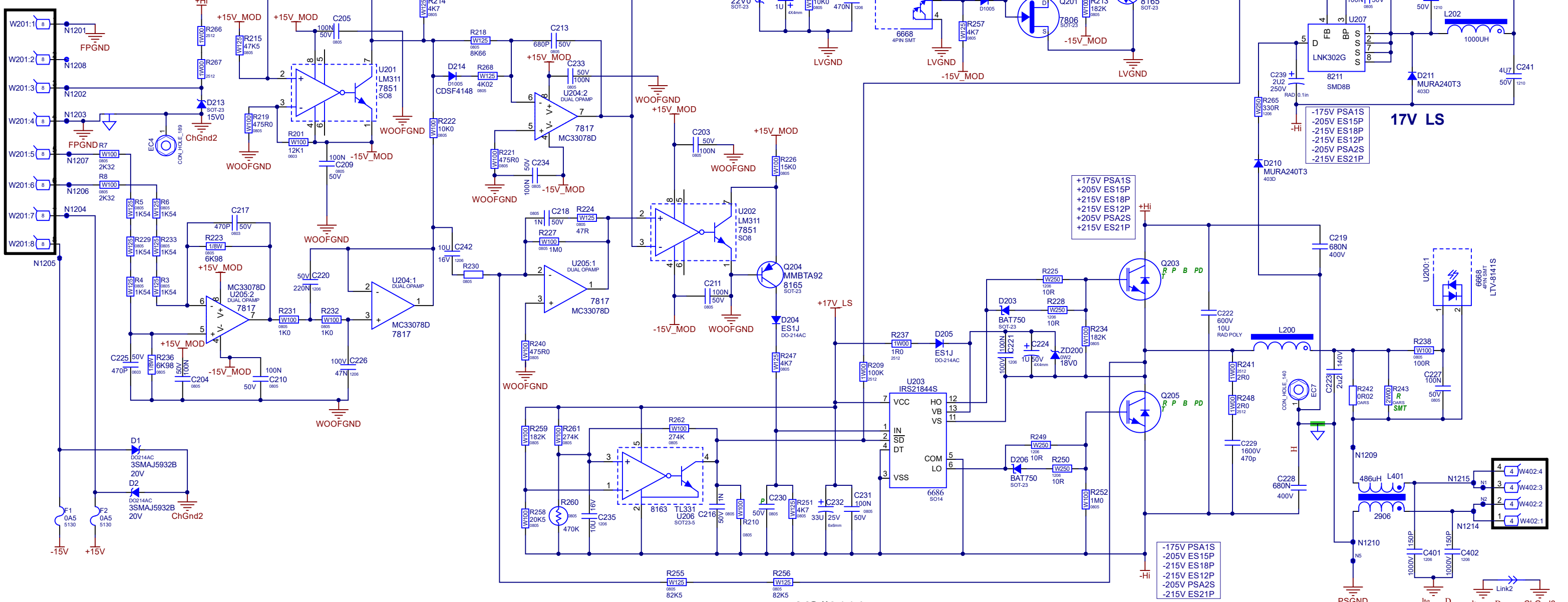


Critical Safety Components

 This symbol is placed next to Safety Critical Components

SUBWOOFER AMP

FROM INPUT PCB



- WOOFER**
- 2x12" 4R 600WPGM #7545 PSA1S
 - 2x15" 8R 1000WPGM #7447 PSA2S
 - 1x12" 4R 2800WPGM #7437 ES12P
 - 1x15" 4R 2800WPGM #7470 ES15P
 - 1x18" 8R 1200WPGM #7420 ES18P
 - 1x21" 4R 3000WPGM #7500 ES21P

	Section: Woofer Amp	Product(s): M1824-PSA1S	
	PCB# 1824	Rev# V02	BOM Rev# 01
	Date Modified: 2020-10-28	Filename: Amp.SCHDOC	
	Sheet 2 Of 4		

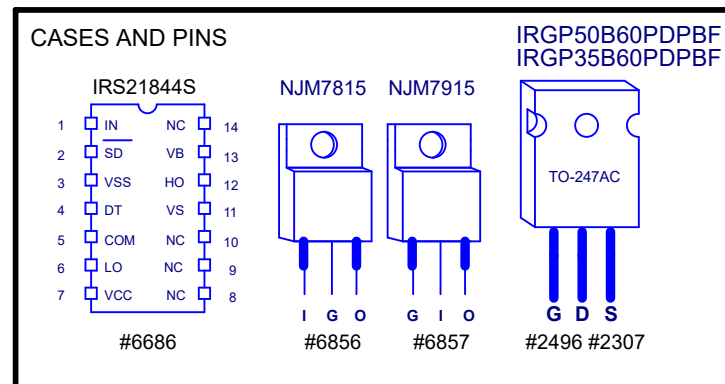
DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	08-May-2019	V01	.	New EMC compliant board
2	22-Aug-2019	.	9440	FOR ES12P-ES21P and PSA2S: Replace R242 #5110 0R04 2W
3	.	.	.	with #5142 0R02 5W and DNS R243
4	23-Sept-2019	V02	9454	REPLACE D308 AND D309 FROM YS#8814 ES1J TO YS#8159 SMAZ18 18V ZENER
5	.	.	9456	R247 moved close to C230 to eliminate oscillation
6	27-Oct-2020	.	9411	Replaced #2496 with #2321
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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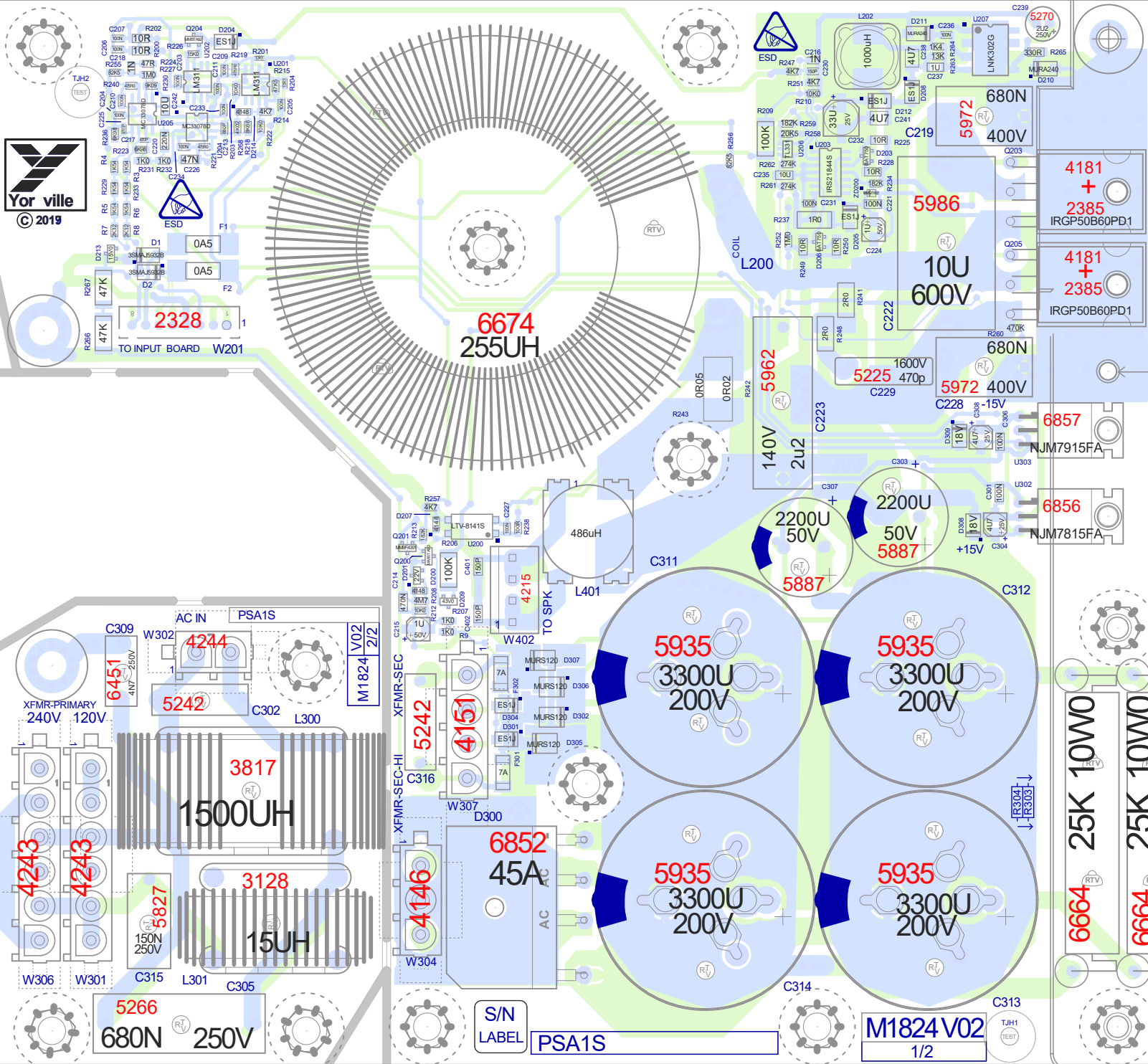
POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS



M1824-PSA1S

Blan Si e - 261mmX222mm (10276X8740)



#8835+
#8800

#8742 to Align ZC1611 HeatSpreader

ZC1611

M1824 V02 PSA1S

S/N LABEL
PSA1S

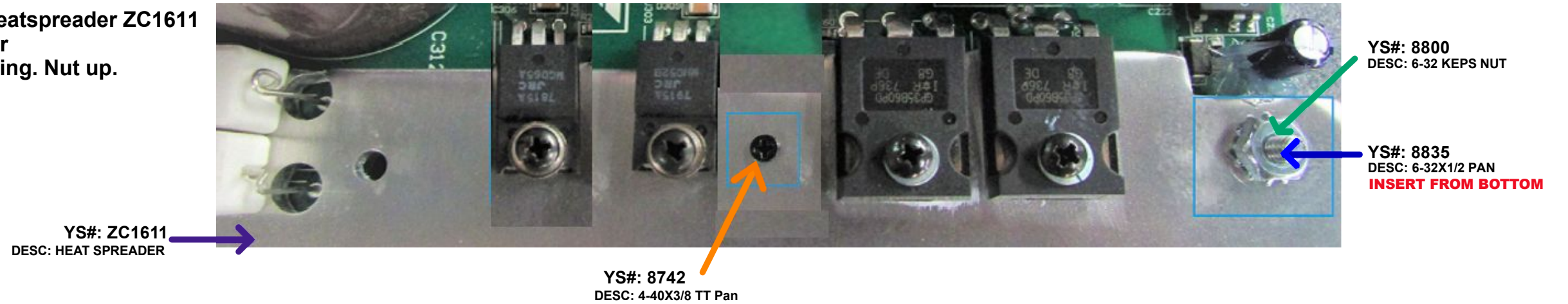
M1824 V02
1/2

6664 25K 10W0
6664 25K 10W0

PCB ASSEMBLY DOCUMENTATION

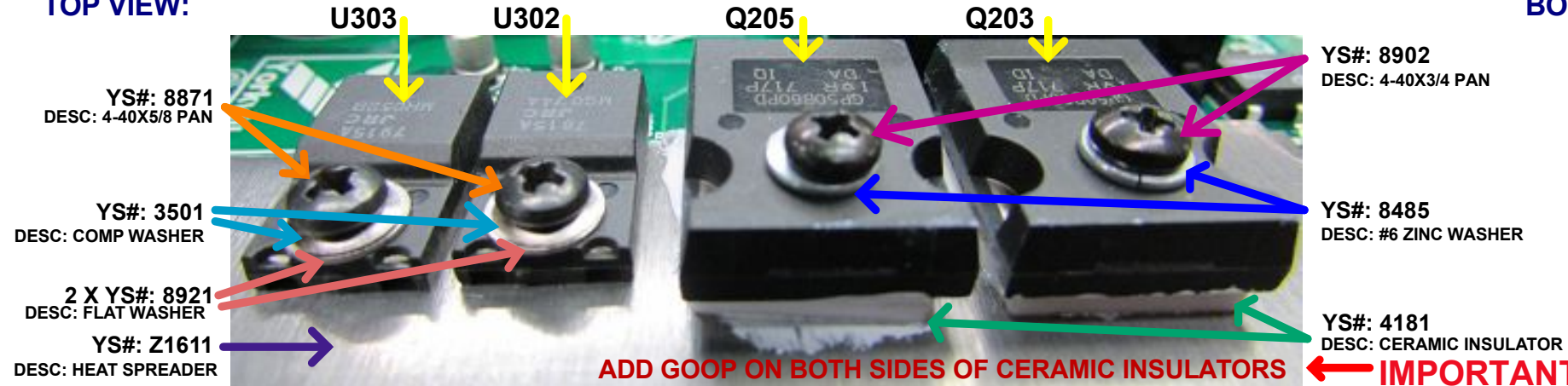
MOUNTING HARDWARE & INSTRUCTIONS FOR HEAT SPREADER ZC1611:

- 1- First install #8742 screw to align heatspreader ZC1611
- 2- Install all devices on Heat Spreader
- 3- Install #8800 and #8835 for grounding. Nut up.

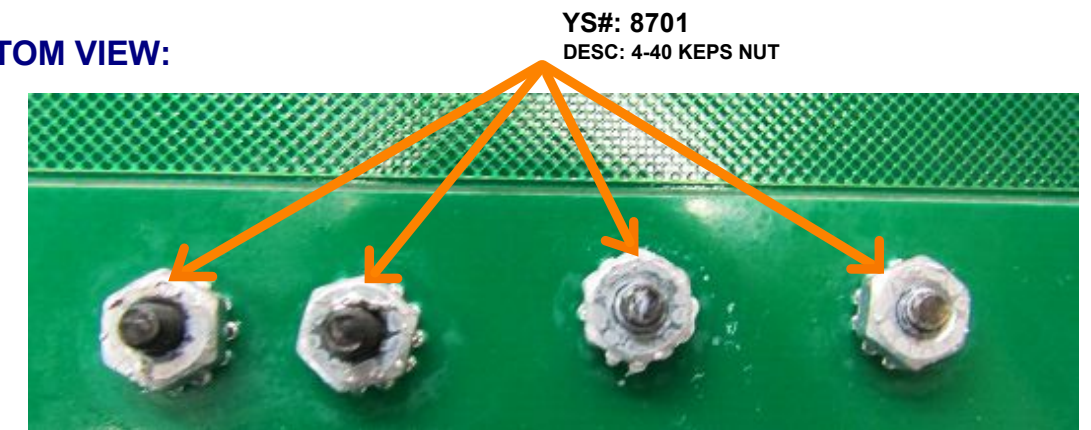


MOUNTING HARDWARE FOR U302/U303 AND Q203/Q205:

TOP VIEW:

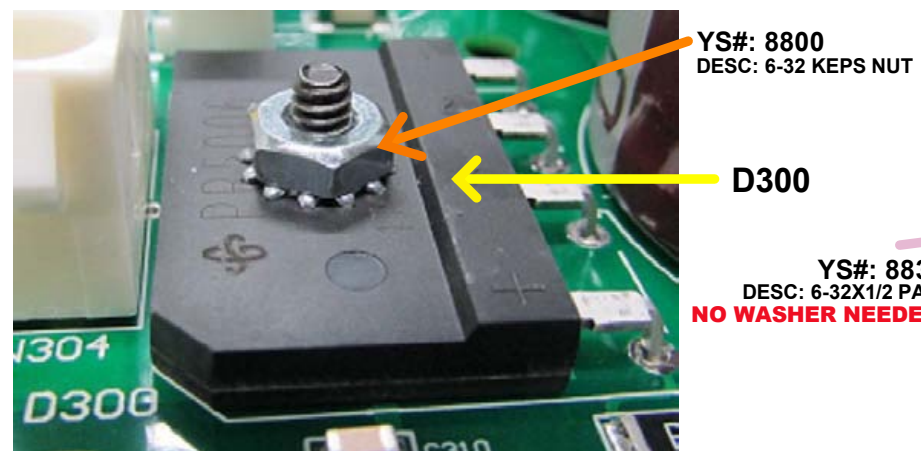


BOTTOM VIEW:

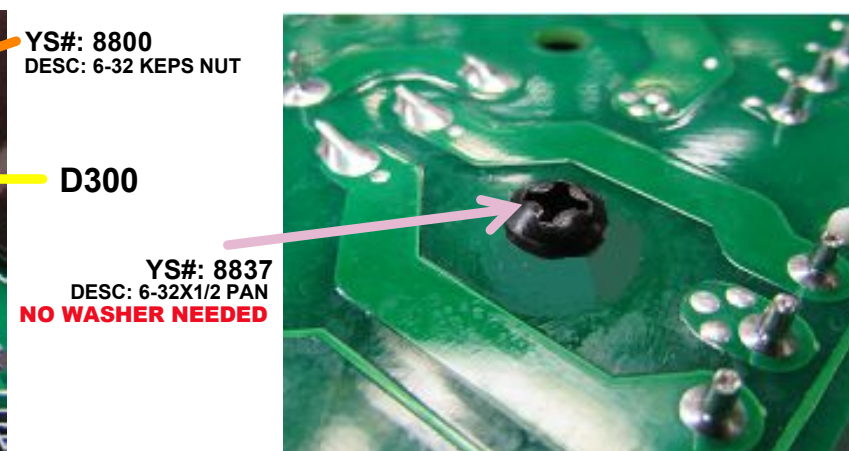


MOUNTING HARDWARE FOR D300:

TOP VIEW:



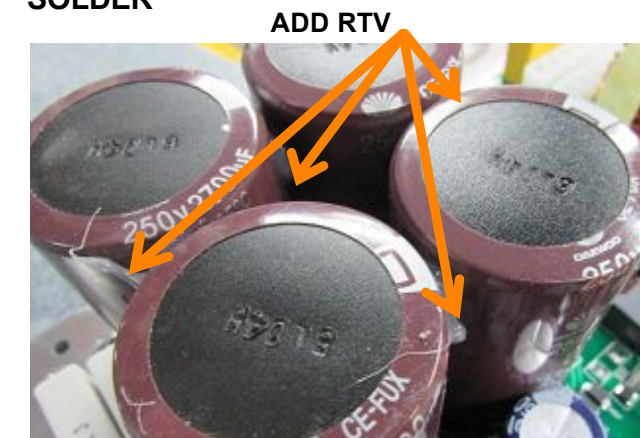
BOTTOM VIEW:



Clip all 4 leads short on D300:

RTV INSTRUCTIONS:

**ADD RTV BETWEEN:
C311, C312, C313 and C314 AFTER WAVE
SOLDER**



IMPORTANT: Keep the resistors away from the nearby capacitors (C312, C313)

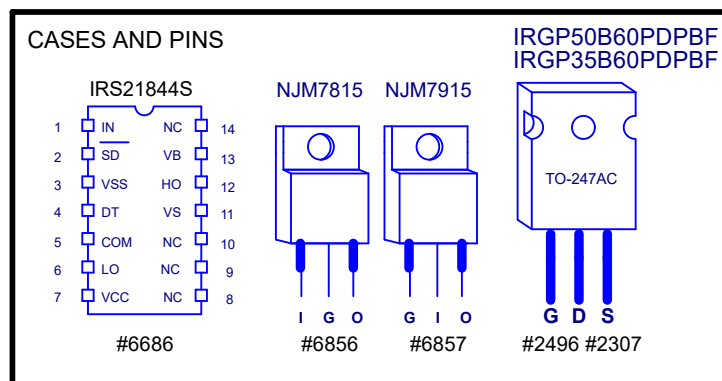
DESIGN HISTORY AND INFORMATION

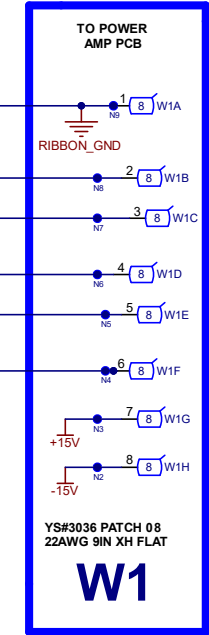
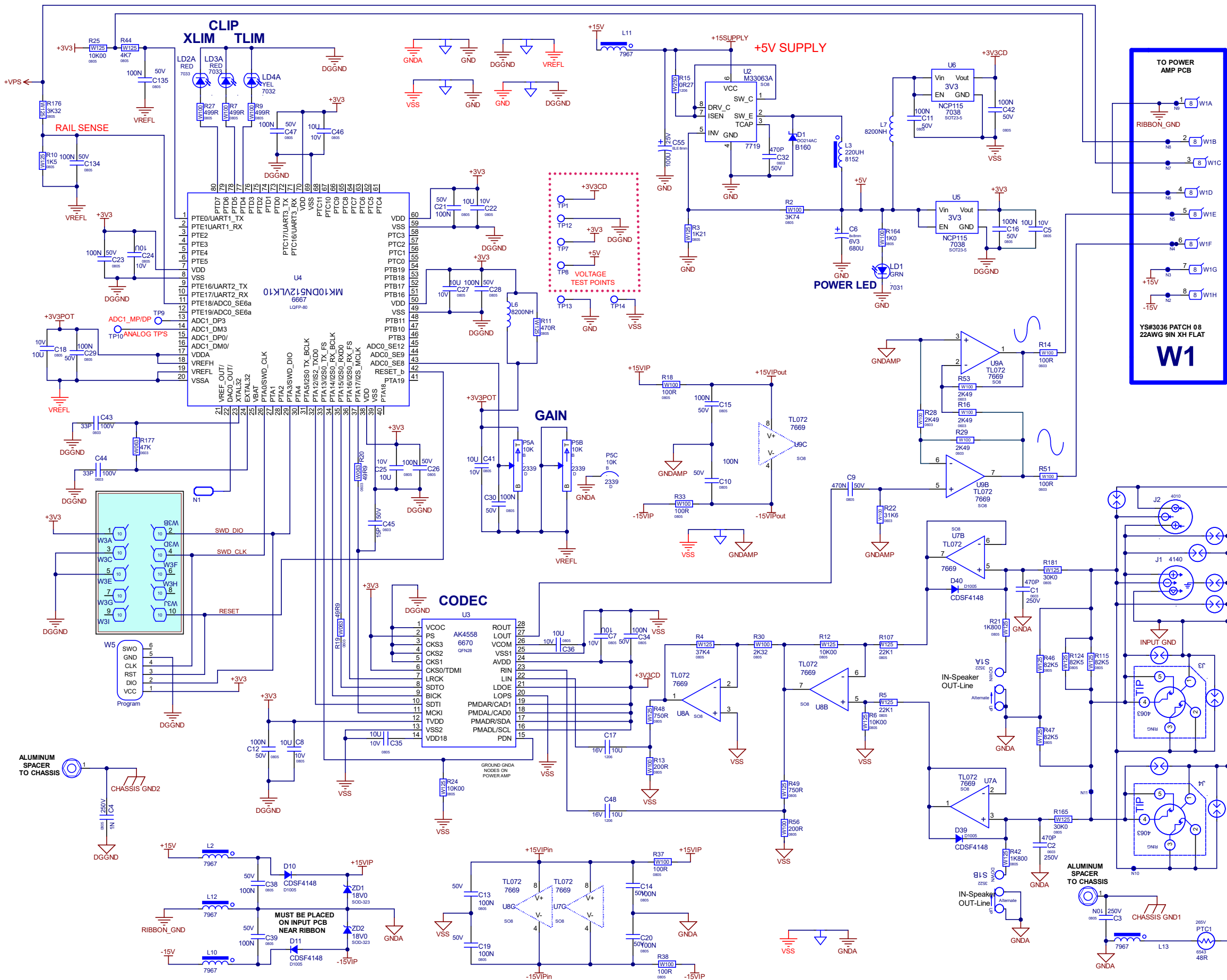
CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	08-May-2019	V01	.	New EMC compliant board
2	22-Aug-2019	.	9440	FOR ES12P-ES21P and PSA2S: Replace R242 #5110 0R04 2W
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4	23-Sept-2019	V02	9454	REPLACE D308 AND D309 FROM YS#8814 ES1J TO YS#8159 SMAZ18 18V ZENER
5	.	.	9456	R247 moved close to C230 to eliminate oscillation
6	27-Oct-2020	.	9411	Replaced #2496 with #2385
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS





MUST BE PLACED ON INPUT PCB NEAR RIBBON

DESIGN HISTORY AND INFORMATION

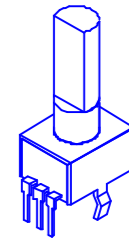
CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	14-MAR-2020	V01	.	RELEASE FOR PRODUCTION
2	15-AUG-2024	V02	10053	See PC for changes. Increase output signal by 2.
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P5	GAIN	2339	P34	8653C
S1	Speaker/Line Mode	3522	DPDT	8637
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STYLE P32

PINOUT DIAGRAMS

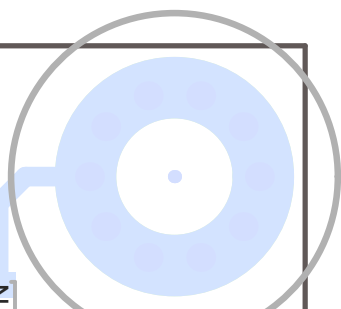


S/N LABEL

PROGRAMMED FOR
PS12S
PS15S
PS18S
PSA1S
PSA2S



© 2020



DGGND

U4 PROGRAM HEADER W3

W3

C4

1N

M1996V02

SD

C22

10U

10U

100N

C30

C26

C25

C45

GND CODEC

C8

C12

C3

10U

C36

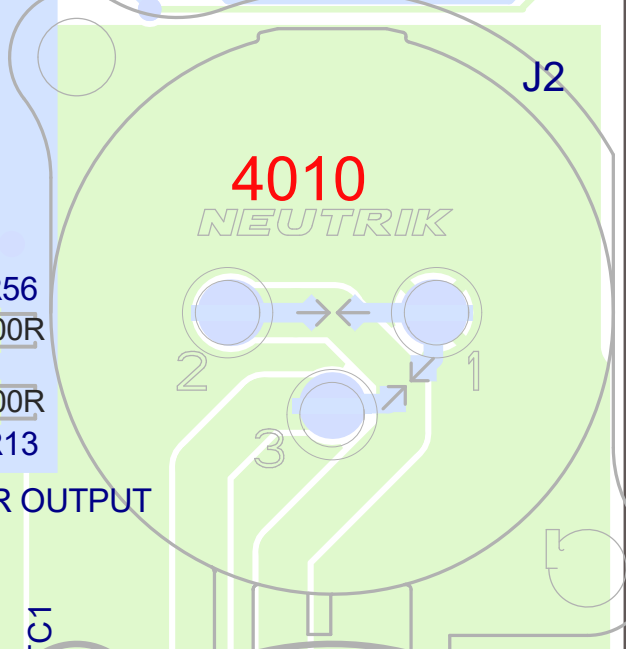
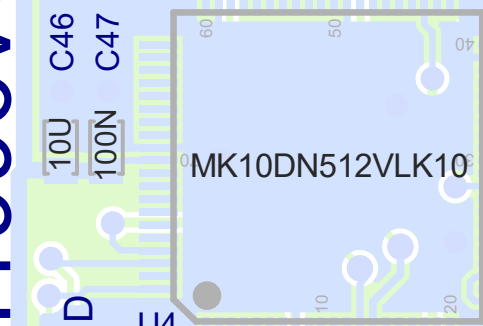
C48

R56

200R

4010

NEUTRIK



DGGND

100N

100N

100N

C29

N1

C43

C44

C35

10U

C34

100N

C17

R13

200R

C19

100N

CODEC R OUTPUT

CLIP

R25

10K00

R44

4K7

C135

100N

L6

8200NH

470R

R11

R176

3K32

R107

R5

R22

22K1

VSS

TP1

+3V3

TP7

DGGND

100N

C42

100N

C5

C16

C13

100N

U8

R21

1K800

R42

1K800

4140

NEUTRIK

LIMIT

LD4A

YEL

499R

R9

R27

499R

TP12

DGGND

100N

C42

100N

TP14

8200NH

TP1

+3V3

TP7

POWER

LD1

GRN

R164

1K0

U5

RD

C14

100N

U7

D40

4148

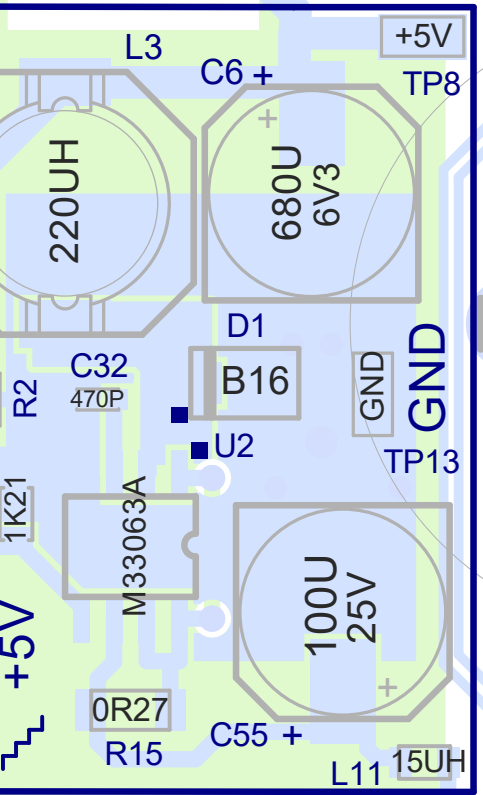
TL072

U7

4148

D39

6543



SUPPLY +5V

L3

C6

220UH

680U

6V3

TP8

+5V

TP13

GND

GND

TP13

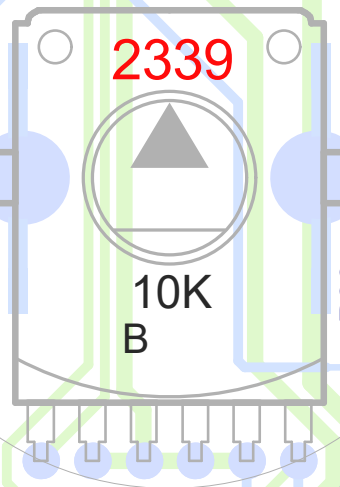
GND

GND

TP13

GND

TP13

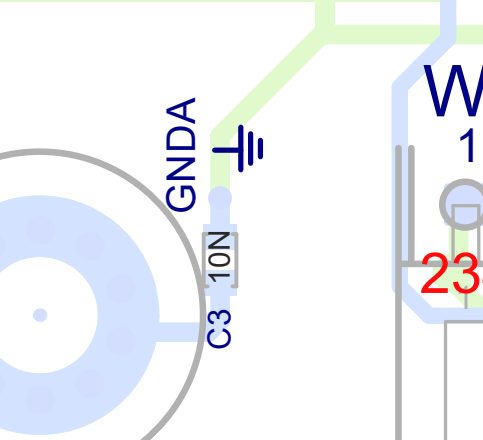


2339

10K

B

GNDAMP

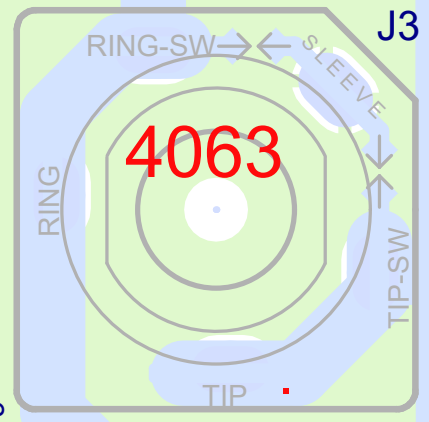


2344

W1

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8



4063

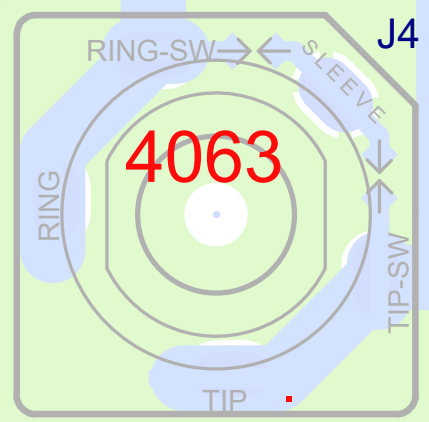
RING-SW

RING

SLEEVE

TIP-SW

TIP



4063

RING-SW

RING

SLEEVE

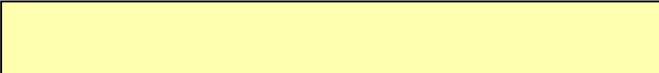
TIP-SW

TIP

TJH2

TO POWER AMP

PCB ASSEMBLY DOCUMENTATION

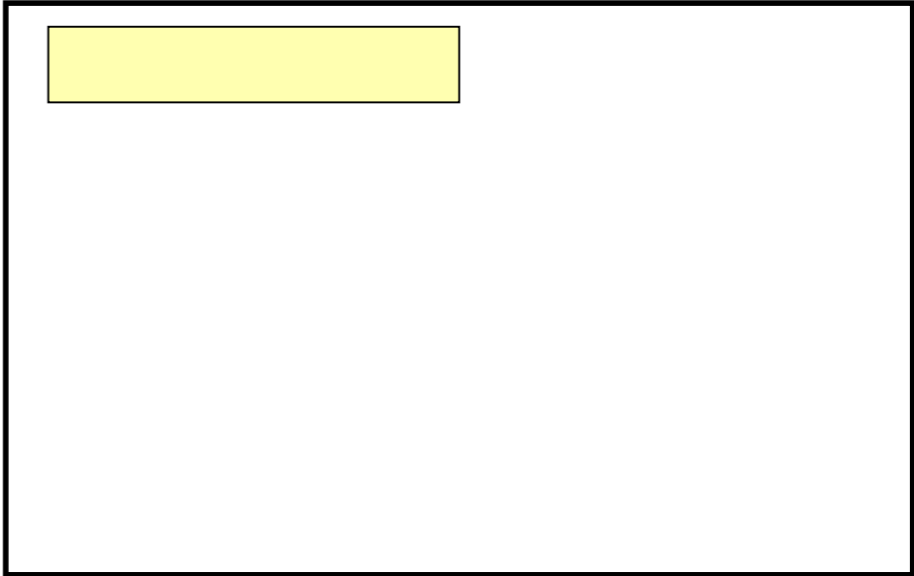
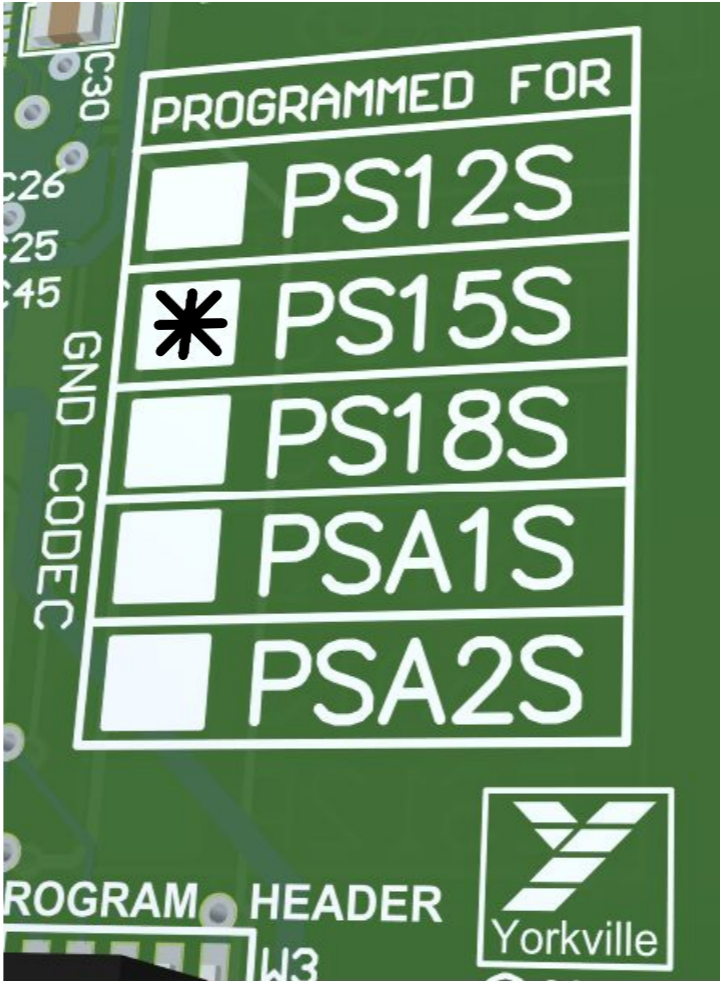


- 1. USE A WAVE SOLDER JIG FOR PROPER ALIGNMENT BEFORE WAVE
- 2. AFTER WAVE INSPECT BOARD FOR ANY SHORTS AND SOLDER DEFECTS.
- 3. USE PIZZA CUTTER OR APPROPRIATE TOOL TO SEPARATE BOARD FROM PANEL.

BOARD TEST TO PROGRAM AND MARK BOX FOR CURRENT RUN PRODUCT WITH INDELIBLE INK

- 1. M1996 INPUT BOARD IS FOR PRODUCTS:
 - PS12S
 - PS15S
 - PS18S
 - PSA1S
 - PSA2S

Example of Marking Product Program



DESIGN HISTORY AND INFORMATION

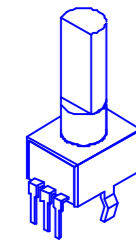
CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	14-MAR-2020	V01	.	RELEASE FOR PRODUCTION
2	15-AUG-2024	V02	10053	See PC for changes. Increase output signal by 2.
3
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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POTENTIOMETERS AND KNOBS

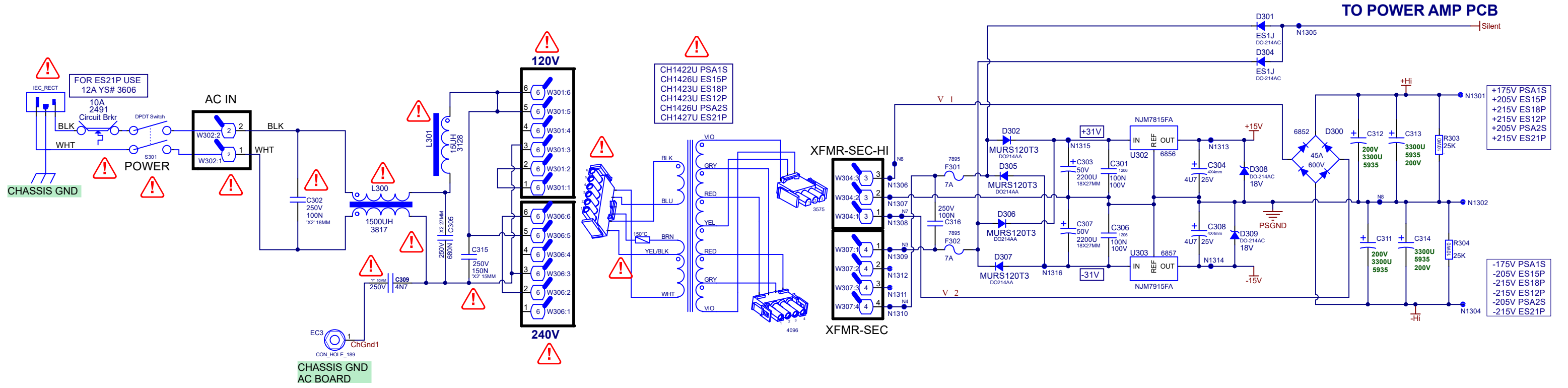
POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P5	GAIN	2339	P34	8653C
S1	Speaker/Line Mode	3522	DPDT	8637
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STYLE P32

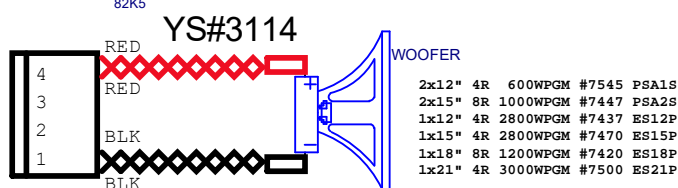
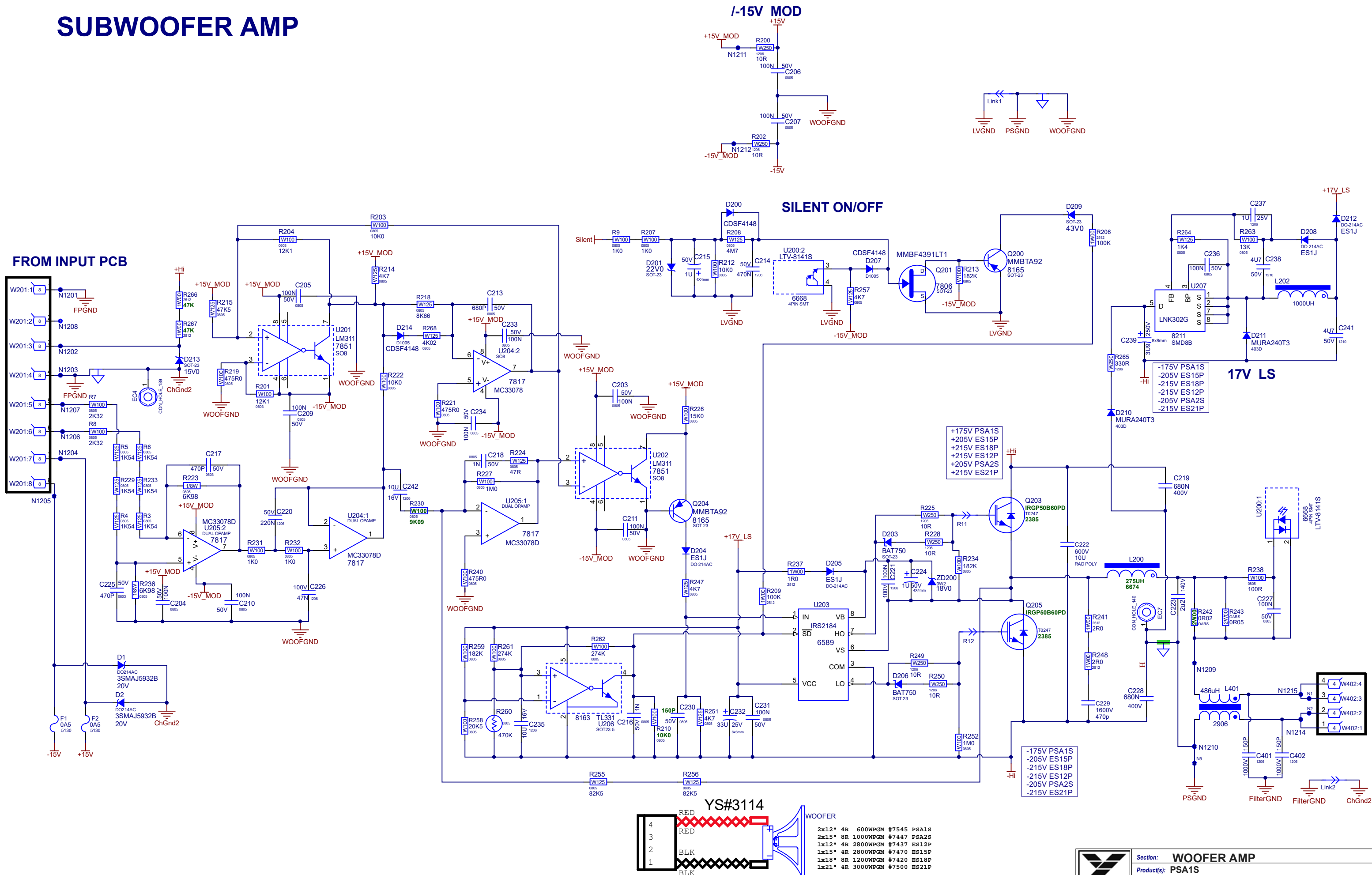
PINOUT DIAGRAMS

POWER SUPPLY



Critical Safety Components
 ⚠ This symbol is placed next to Safety Critical Components

SUBWOOFER AMP



2x12"	4R	600WPGM	#7545	PSA1S
2x15"	8R	1000WPGM	#7447	PSA2S
1x12"	4R	2800WPGM	#7437	ES12P
1x15"	4R	2800WPGM	#7470	ES15P
1x18"	8R	1200WPGM	#7420	ES18P
1x21"	4R	3000WPGM	#7500	ES21P



DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

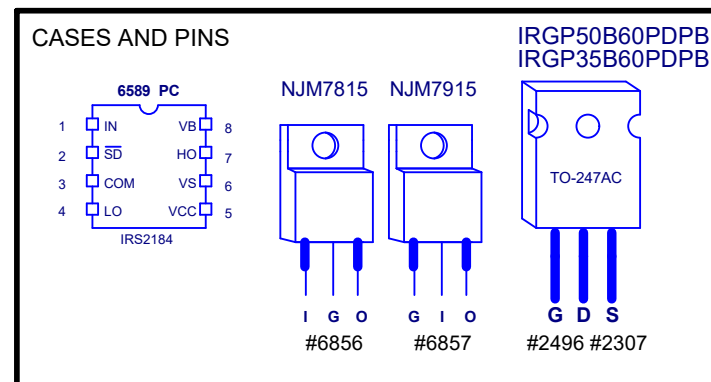
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	23-FEB-2022	V01	.	RELEASED FOR PRODUCTION
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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POTENTIOMETERS AND KNOBS

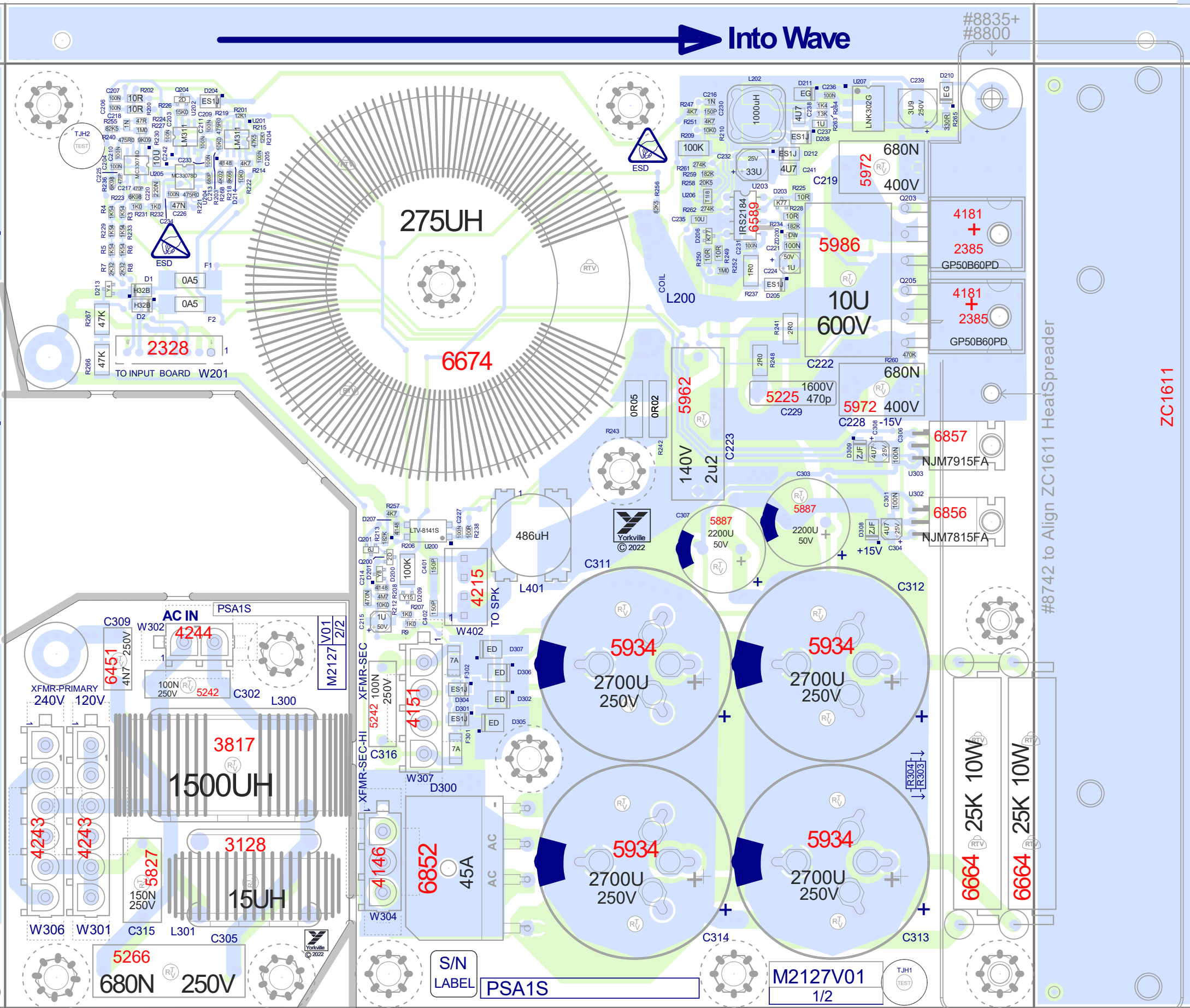
PINOUT DIAGRAMS



M2127-PSA1S

Into Wave

Blan Si e - 261mmX222mm (10276X8740)



#8742 to Align ZC1611 HeatSpreader

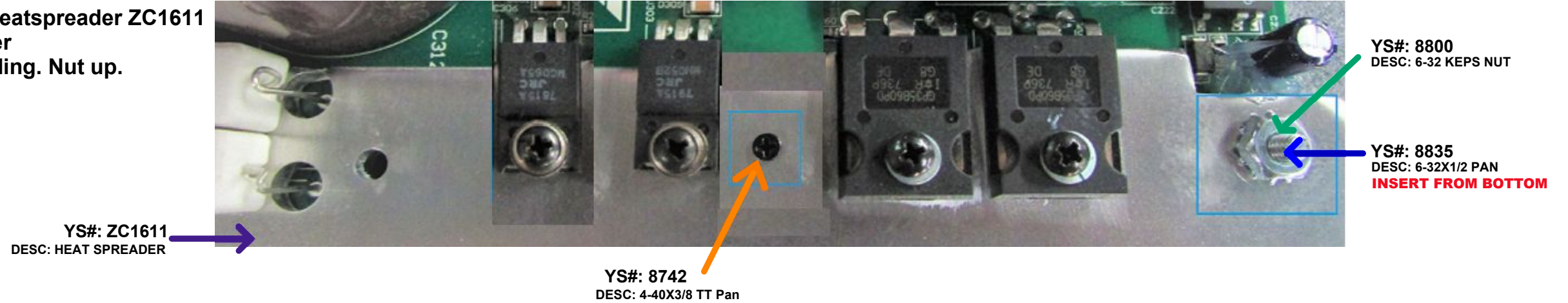
ZC1611

M2127V01 PSA1S

PCB ASSEMBLY DOCUMENTATION

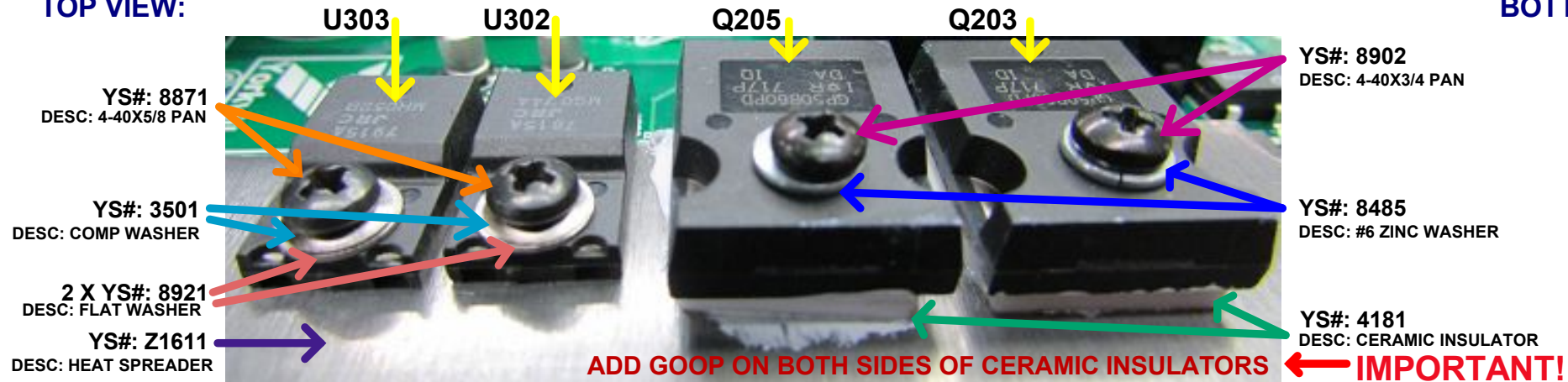
MOUNTING HARDWARE & INSTRUCTIONS FOR HEAT SPREADER ZC1611:

- 1- First install #8742 screw to align heatspreader ZC1611
- 2- Install all devices on Heat Spreader
- 3- Install #8800 and #8835 for grounding. Nut up.

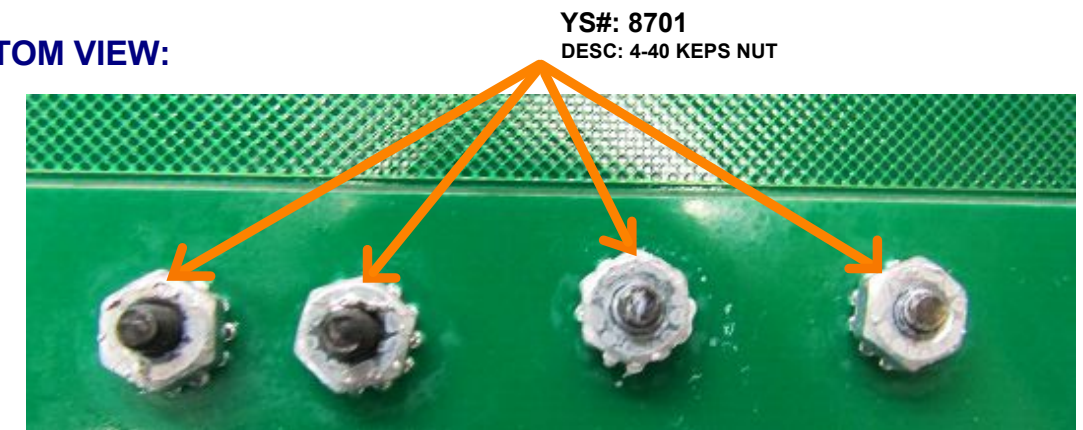


MOUNTING HARDWARE FOR U302/U303 AND Q203/Q205:

TOP VIEW:

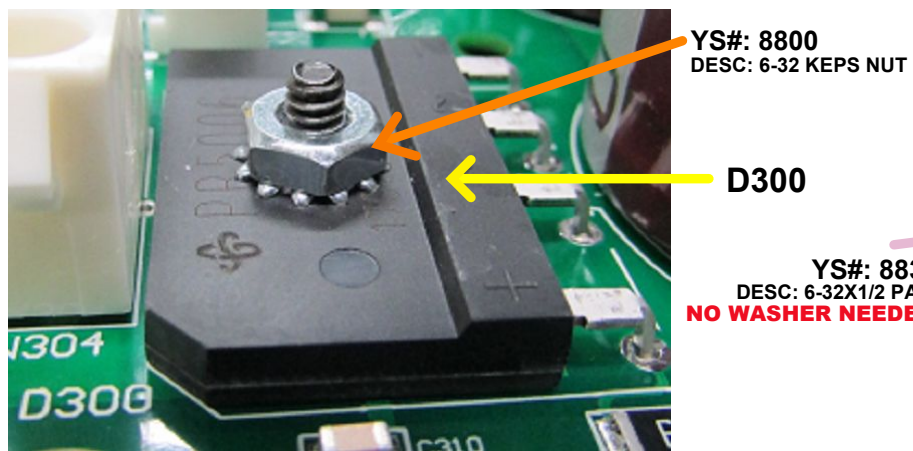


BOTTOM VIEW:

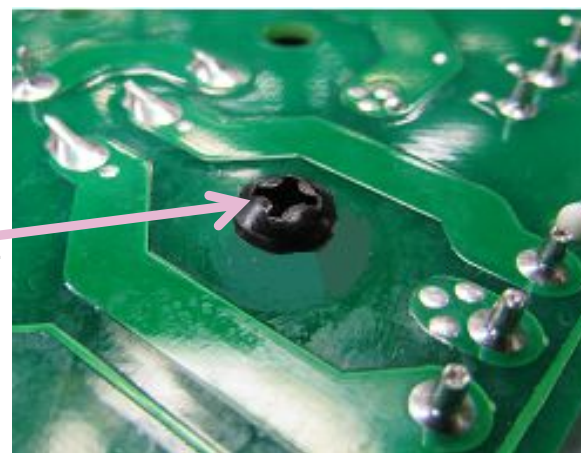


MOUNTING HARDWARE FOR D300:

TOP VIEW:



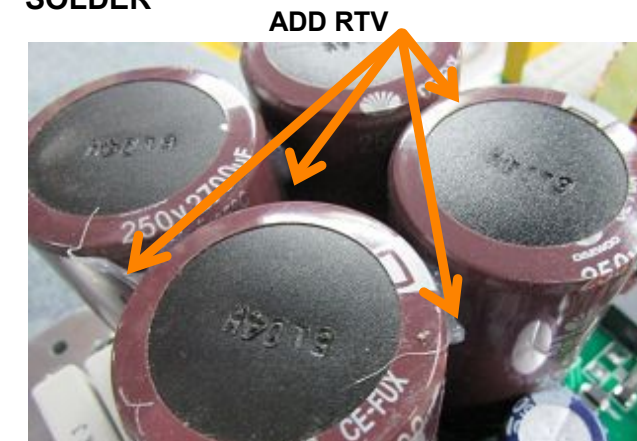
BOTTOM VIEW:



Clip all 4 leads short on D300:

RTV INSTRUCTIONS:

ADD RTV BETWEEN:
C311, C312, C313 and C314 AFTER WAVE
SOLDER



Add RTV UNDER R303 AND R304 on the
heatspreader

**IMPORTANT: Keep the resistors away
from the nearby capacitors (C312, C313)**

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

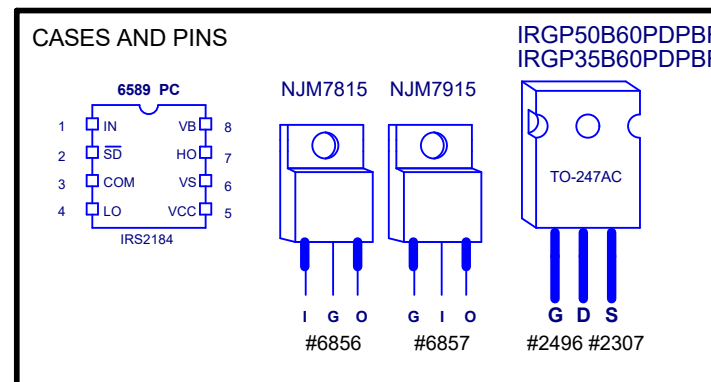
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	23-FEB-2022	V01	.	RELEASED FOR PRODUCTION
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POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS





PARALINE SERIES PSA1S / PSA2S

1. Input Level

Choose between line-level and speaker-level signals.

The Line-Level position is used when the PSA1s/ PSA2s is fed a line-level signal from a processor, an electronic crossover, an un-powered mixer, or the loop-through of a powered speaker cabinet. When using the line-level mode, using balanced ¼-inch (Tip, Ring, Sleeve) and/or XLR cables will reduce the unit's sensitivity to hum and buzz.

The Speaker Level position should be used when the PSA1s/ PSA2s is fed with a ¼-inch speaker cable from the output of an amplifier, a powered-mixer, or from the parallel connection on an un-powered speaker cabinet. For speaker level operation, connect the PSA1s/ PSA2s just like an ordinary speaker (in parallel using the loop-through jacks) along with the passive full-range loudspeakers.

2. Level Control

Adjusts the amount of bass added to the sound system. This control should be set by listening with a medium-level input signal (such that the limiter is not firing).

Note: It is not recommended to set this control at high levels since the limiter determines the output level. A setting at the center detent on the PSA1s/ PSA2s Level control is the correct starting point when setting up a sound system. The detent is the setting that will give full power when the line input is used and the input signal is at a level of +3 dBV.

3. Input Jacks

Designed to make it easy to hook up the PSA1s/ PSA2s to almost any audio system with minimal hassle. ¼-inch and XLR inputs with Thru connections are supplied. The PSA1s/ PSA2s may be plugged in before or after a full-range loudspeaker, it does not alter the signal

to the daisy-chained (thru) loudspeakers and will not draw any power from the host amplifier/processor driving them. Also, note that an external crossover is not necessary when using the PSA1s/ PSA2s.

Note: the Thru jacks allow many PSA1s/ PSA2s subwoofers to be connected in a chain (parallel). There is no practical limit to the number of PSA1s/ PSA2s that may be connected together.

4. Protection

The PSA1s/ PSA2s has several internal protection mechanisms against over-current, over-excursion, clipping, and excessive average power output. In some cases, when protection is activated, the output will be cut off. In these cases, the power LED will blink, and the PSA1s/ PSA2s will attempt to restart itself. If the fault persists, you should take your PSA1s/ PSA2s to the nearest authorized service center for repair by a qualified service technician.

At high power levels when the limiter is operating, increasing the subwoofer level control will not increase the output. For the best results, set the system so that the limiter LED occasionally (a few times per second) lights up. The limiter is present in the circuit at all times to prevent distortion and to prevent over-excursion of the speakers.

Note: The PSA1s/ PSA2s' built-in stand mounting adapter can be used with the Yorkville SW-TUBEHD accessory to support either one or two of our PSA1 cabinets. The support tube can be used safely as long as the PSA1s/ PSA2s is on a flat, level surface.

WARNING: Larger or heavier cabinets should NOT be used!



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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4625 Witmer Industrial Estate
Niagara Falls, New York
14305 USA

Printed In CANADA

QuickStart-PSAS-00-1v3 • YS#QSTART-PSAS • September 28, 2020



1. Niveau d'Entrée

Choisissez entre des signaux de niveau ligne et de niveau haut-parleur.

La position niveau ligne est utilisée lorsque les PSA1/PSA2 reçoivent un signal de niveau ligne provenant d'un processeur, d'un filtre électronique, d'un mélangeur non alimenté ou de la boucle d'un haut-parleur alimenté. En mode niveau ligne, l'utilisation de câbles symétriques ¼-pouce (Pointe, Anneau, Manchon) et/ou XLR permet de réduire la sensibilité de l'appareil aux ronflements et aux bourdonnements

La position "Speaker Level" doit être utilisée lorsque les PSA1/PSA2 sont alimentés par un câble de haut-parleur de ¼ pouce provenant de la sortie d'un amplificateur, d'un mélangeur amplifié ou de la connexion parallèle d'un haut-parleur non amplifié. Pour le fonctionnement au niveau haut-parleurs, connectez les PSA1/PSA2 comme un haut-parleur ordinaire (en parallèle à l'aide des prises en boucle) avec les haut-parleurs passifs pleine gamme

2. Commande de Niveau

La commande de niveau ajuste la quantité de basses ajoutées au système de sonorisation. Ce réglage doit être effectué en écoutant avec un signal d'entrée de niveau moyen (de telle sorte que le limiteur ne se déclenche pas).

Remarque : il n'est pas recommandé de régler cette commande à des niveaux élevés, car le limiteur détermine le niveau de sortie.

Un réglage au cran central sur la commande de niveau PSA1/PSA2s est le bon point de départ lors du réglage d'un système de sonorisation. Le cran est le réglage qui donne la pleine puissance lorsque l'entrée ligne est utilisée et que le signal d'entrée est à un niveau de +3 dBV.

3. Prises d'Entrée

Conçu pour faciliter le branchement à presque tous les systèmes audio avec un minimum de difficultés, les PSA1 et PSA2 sont équipés d'entrées ¼-pouce et XLR avec des connexions Thru. Les PSA1/ PSA2 peuvent être branchés avant ou après un haut-parleur pleine

PARALINE SERIES PSA1S / PSA2S

bande, ils n'altèrent pas le signal des haut-parleurs en chaîne (Thru) et ne tirent aucune puissance de l'amplificateur/processeur qui les entraîne. Notez également qu'un filtre externe n'est pas nécessaire lorsque vous utilisez les PSA1/PSA2.

Remarque : les prises Thru permettent de connecter en parallèle de nombreux subwoofers PSA1/PSA2. Il n'y a pas de limite pratique au nombre de PSA1/ PSA2 qui peuvent être connectés ensemble.

4. Protection

Les PSA1 et PSA2 disposent de plusieurs mécanismes de protection internes contre les surintensités, les sur-excursions, les écrêtages et une puissance moyenne de sortie excessive. Dans certains cas, lorsque la protection est activée, la sortie sera coupée. Dans ce cas, la DEL d'alimentation clignote et les PSA1/PSA2 tentent de redémarrer. Si le problème persiste, vous devez amener vos PSA1/PSA2 au centre de service agréé le plus proche pour qu'un technicien qualifié les répare.

À des niveaux de puissance élevés lorsque le limiteur est en fonctionnement, l'augmentation de la commande de niveau du subwoofer n'augmentera pas le niveau de sortie. Pour obtenir les meilleurs résultats, réglez le système de manière

à ce que la DEL du limiteur s'allume de temps en temps (quelques fois par seconde). Le limiteur est présent dans le circuit à tout moment pour éviter toute distorsion et pour empêcher la sur-excursion des haut-parleurs.

Note : L'adaptateur intégré pour le montage sur pied des PSA1/PSA2 peut être utilisé avec l'accessoire Yorkville SW-TUBEHD pour supporter une ou deux de nos enceintes PSA1. Le tube de support peut être utilisé en toute sécurité à condition que les PSA1/PSA2 se trouvent sur une surface plane et horizontale.

AVERTISSEMENT : les enceintes plus grandes ou plus lourdes ne doivent PAS être utilisées !



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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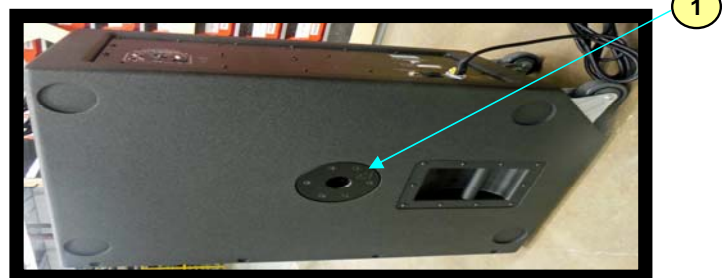
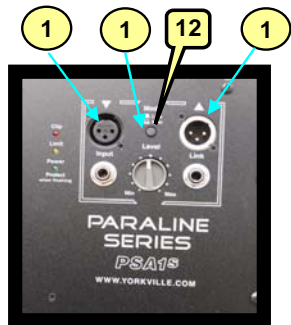
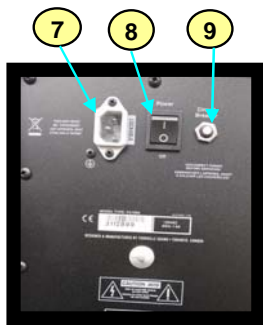


PSA1S

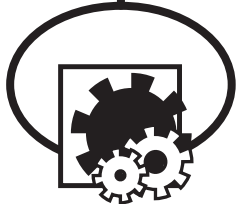
POWERED AMPLIFIER



#	Part#	Description	qty
Labeled Components			
1	4459	_10K B LIN 9MM DET HI TORQ P32	1
2	8653	LOW PROFILE POINTER AT 12 KNOB	1
3	9414SS	10-32X1 1/4 PAN QUAD SS MS B.O.&WAX	18
4	4063	1/4IN ISO JCK PCMT VT STER RT SWT	2
5	9970	RIGID CASTER	2
6	9419SS	1/4-20X11/4 SS TRUSS PH MS B.O.&WAX	16
7	4088	RECEPTACLE:V-LOCK INLET	1
8	3688	DPDT ROKR SW QUIK 250°AC/25A ON-OFF	1
9	3606	12.00 AMP CIRCUIT BREAKER	1
10	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	1
11	3522	DPDT MINI PC VERT SNP ALT	1
12	8637	ROUND PUSH BUTTON 1/4" BLK 24MM	1
13	4135	XLR MALE PCB MT VERT 24MM BA-SERIES	1
14	3074	POWER CORD 3M V-LOCK (N.A)	1
15	POPLABEL	4"X5" POLYJET LABEL W/PERM ADHESIVE	1
16	8545	RECESSED RUBBER BUMPER WITH WASHER	4
17	8529	RUBBER FOOT 65 X 20MM	4
18	8565	BAR HANDLE ALL METAL RECTANGULAR	3
19	9170	STAND ADAPTER CAST	1



EYEBOLT INSTALLATION



1. DESCRIPTION

Many of the popular models in the Yorkville speaker cabinet line are now equipped with flying hardware for overhead suspension applications. Depending on the model, two or more internal braces have been provided for rigging purposes. Each brace contains two bolt holes and provides center-of-gravity fly-points for use with in-line or angular loads. Many of the models will support additional suspended cabinets according to their specified working load limits.

IMPORTANT!!

THE RIGGING OF LOUDSPEAKER SYSTEMS IS AN EXTREMELY SERIOUS MATTER. OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, INCLUDING (BUT NOT LIMITED TO) CALCULATING WORKING LOAD LIMITS, HARDWARE INSTALLATION, AND PERIODIC SAFETY INSPECTION OF ALL HARDWARE AND CABINETRY. IF YOU LACK THESE QUALIFICATIONS, DO NOT ATTEMPT THE INSTALLATION YOURSELF, BUT INSTEAD USE A PROFESSIONAL STRUCTURAL RIGGER. IMPROPER INSTALLATION CAN RESULT IN BODILY INJURY OR DEATH. CONSULT A STRUCTURAL ENGINEER TO CALCULATE ADDED LOADS FOR A BUILDING. STRUCTURAL REINFORCEMENT MAY BE NECESSARY TO INSURE A SAFE INSTALLATION.

2. REQUIRED TOOLS

- 4.5mm (7/32") Hex Wrench
- Thread lock adhesive (Removable Type)

3. EYEBOLT INSTALLATION

a) Using a 4.5mm (7/32") hex wrench, remove the flat head bolts from the top or bottom of the speaker enclosure to expose the tapped holes (on TX models, the flat head bolts are located within the track rails), as shown below. Be sure to keep these handy as they will be needed to seal the cabinet after the eyebolts are removed.

IMPORTANT!!

USE ONLY LOAD RATED FORGED EYEBOLTS. THESE MAY BE PURCHASED THROUGH YORKVILLE SOUND OR ATM FLY-WARE™. TO INSURE CABINET-BRACING STRENGTH, MAKE SURE ALL FLY-POINTS ARE SECURED WITH EITHER AN EYEBOLT OR FLAT HEAD HEX BOLT.

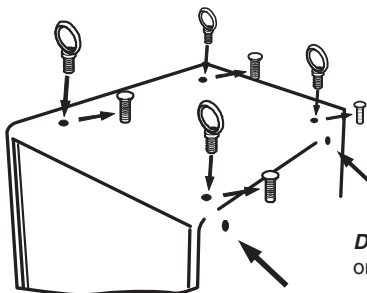
b) Place a drop of thread-lock adhesive on the threads of the eyebolt and insert one into exposed hole. Tighten each eyebolt by hand until its fits snugly against the cabinet. Further tighten each eyebolt by rotating it another half turn. Be sure to insert eyebolts in the threaded hole directly in-line with the suspension cable. Always follow the eyebolt manufacturers installation and use instructions.

c) Suspend each cabinet according to working load calculations and practices recommended by the rigging hardware manufacturer.

IMPORTANT!!

ON MODELS WITH ONLY TWO TOP SUSPENSION POINTS THE SUPPLIED PULL BACK AT THE REAR OF THE BOTTOM CENTER PANEL OF THE CABINET IS NOT TO BE USED AS A SUSPENSION POINT. THIS POINT TO BE USED FOR PULL BACK PURPOSES ONLY.

Remove Flat-Head Bolt and replace with **Forged Shoulder Eyebolt!**



DO NOT Remove Flat-Head Bolts on the Side of Cabinet/s.

4. WORKING LOAD LIMITS

Specified working load limits have been determined for the enclosure as follows:

PSA1SF	4 fly points on top	3/8-inch	weight of cabinet only
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IMPORTANT!!

READ ALL ENCLOSED INSTRUCTIONS ABOUT PROPER USE OF HARDWARE. TO INSURE PROPER INSTALLATION, FOR TECHNICAL INFORMATION ON SUSPENSION TECHNIQUES AND EXTERIOR ACCESSORY INFORMATION WE SUGGEST CALLING ATM FLY-WARES TECHNICAL SERVICES IN THE UNITED STATES AT (310)639-8282 MONDAY THROUGH FRIDAY FROM 9 AM TO 6 PM (PST) OR FAX AT (310)639-8284. YORKVILLE SOUND MAKES NO CLAIMS AS TO THE SAFETY OF THE ENCLOSURES IF RECOMMENDED LOAD LIMITS AND HARDWARE ARE NOT STRICTLY ADHERED TO. NOR DOES IT MAKE ANY SAFETY CLAIMS TO THE RESULTANT INSTALLATION.

IMPORTANT!!

TRACK RAILINGS: UNITS THAT INCORPORATE THE TRACK RAILING SYSTEM HAVE THE SAME WORKING LOAD LIMITS AS THEY DO WHEN THEY ARE USED WITH EYEBOLTS. THESE RATINGS MAY BE LIMITED AND BASED ON THE RATINGS OF THE TRACK FITTINGS THEMSELVES. PLEASE ENSURE THAT THE RATING OF THE CERTIFIED TRACK FITTINGS EXCEEDS NECESSARY WORKING LOAD LIMITS.

EYEBOLT INSTALLATION

1. DESCRIPTION

Plusieurs des modèles populaires de la ligne d'enceinte à haut-parleur Yorkville sont maintenant équipés de quincaillerie de montage pour les applications requérant une suspension aérienne. Dépendamment du modèle, deux ou plusieurs attaches internes sont prévues pour de tels montages. Chaque attache contient deux trous de boulon et offre des points de montage centre de gravité pour utilisation avec charges droites ou anguleuses. Plusieurs des modèles permettent la suspension de cabinets additionnels selon leur limite de charge de travail spécifique.



IMPORTANT!! LE MONTAGE DE SYSTÈME DE HAUT-PARLEUR EST UNE AFFAIRE TRÈS SÉRIEUSE. LES MONTAGES IMPLIQUANT UNE SUSPENSION AÉRIENNE NÉCESSITENT UNE CONNAISSANCE APPROFONDIE, INCLUANT (MAIS NON-LIMITÉE) AU CALCUL DES LIMITES DE CHARGE DE TRAVAIL, LA QUINCAILLERIE D'INSTALLATION, ET INSPECTIONS PÉRIODIQUES DE SÉCURITÉ DE TOUTE LA QUINCAILLERIE ET DE L'ÉBÉNISTERIE. SI VOUS N'AVEZ PAS CES QUALIFICATIONS, NE TENTEZ PAS DE FAIRE VOUS-MÊME L'INSTALLATION, AYEZ PLUTÔT RECOURS À UN PROFESSIONNEL DU DOMAINE. UNE INSTALLATION INADÉQUATE PEUT CAUSER DES BLESSURES CORPORELLES OU MÊME LA MORT. CONSULTEZ UN INGÉNIEUR EN STRUCTURE POUR CALCULER LA CHARGES ADDITIONNELLE AJOUTÉE AU BÂTIMENT. UN RENFORCEMENT DE LA STRUCTURE DU BÂTIMENT POURRAIT ÊTRE NÉCESSAIRE POUR ASSURER UNE INSTALLATION SÛRE.

2. OUTILS REQUIS

Clé Hex 4.5mm (7/32")

Adhésif de verrouillage pour filetage (Type amovible)

3. INSTALLATION DES BOULONS À OEIL

a) À l'aide d'une Clé Hex 4.5mm (7/32"), enlevez le boulon à tête plate du dessus ou du dessous de l'enceinte à haut-parleur pour découvrir les trous filetés (sur les modèles TX, les boulons à tête plate sont situés à l'intérieur des quincailleries de montage intégré), tel qu'indiqué ci-dessous.

Assurez-vous de ne pas perdre ces boulons à tête plate. Vous devrez les ré-utiliser pour fermer hermétiquement le cabinet quand les boulons œil seront enlevés.



IMPORTANT!! N'UTILISEZ QUE DES BOULONS À OEIL CLASSIFIÉ POUR LES CHARGES REQUISES. VOUS POUVEZ VOUS LES PROCURER DE YORKVILLE SOUND OU ATM FLYWARE™. POUR PRÉSERVER UNE FORCE MAXIMALE DE L'ENTRETOISEMENT DU CABINET, ASSUREZ-VOUS QUE TOUS LES POINTS DE SUSPENSION SONT FIXÉS SOLIDEMENT AVEC SOIT UN BOULON À OEIL, SOIT UN BOULON HEX À TÊTE PLATE

b) Placez une goutte d'adhésif de verrouillage sur le filetage du boulon à œil et placez-en une dans le trou exposé. Serrez chaque boulon à œil à la main jusqu'à ce qu'ils soient bien serrés contre l'enceinte. Serrez encore chaque boulon à œil en les tournant un autre demi-tour.

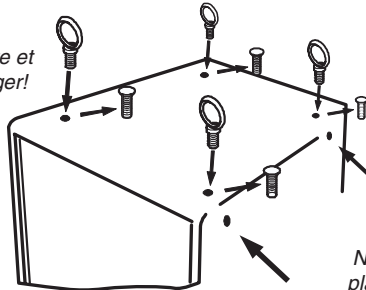
Assurez-vous d'insérer les boulons à œil dans les trous filetés directement en ligne avec le câble de suspension. Toujours suivre les instructions d'installation et d'utilisation du fabricant des boulons à œil.



c) Suspendez chaque enceinte selon le calcul de charge de travail et les pratiques recommandées par le fabricant de la quincaillerie de montage.

IMPORTANT!! LES MODÈLES ÉQUIPÉS DE SEULEMENT DEUX POINT DE SUSPENSION SUR LE DESSUS, SONT DOTÉ D'UN POINT DE TIRE À L'ARRIÈRE SUR LE PANNEAU CENTRAL DU BAS. CE POINT DE TIRE NE DOIT PAS ÊTRE UTILISÉ COMME POINT DE SUSPENSION. CE POINT DE TIRE NE DOIT SEULEMENT ÊTRE UTILISÉ QUE POUR TIRER L'ENCEINTE VERS L'ARRIÈRE..

Enlevez le Boulon à tête plate et
Remplacez-le avec un boulon à œil forger!



N'enlevez pas les boulons à tête
plate sur le côté de l'enceinte/s

4. LIMITES DE CHARGE DE TRAVAIL

Les limites de charge spécifiées ont été déterminées pour chaque enceinte comme suit:

PSA1SF	Attaches aérienne au dessus	3/8-po	Poid de l'enceinte seule
--------	-----------------------------	--------	--------------------------



IMPORTANT!! LIRE TOUTE LA DOCUMENTATION INCLUSE AU SUJET DE L'UTILISATION APPROPRIÉ DE LA QUINCAILLERIE. POUR ASSURER UNE BONNE INSTALLATION, POUR OBTENIR DE L'INFORMATION TECHNIQUE SUR LES DIVERSES TECHNIQUES DE SUSPENSION ET POUR OBTENIR DE L'INFORMATION SUR LES ACCESSOIRES EXTÉRIEURS NOUS VOUS SUGGÉRONS D'APPELER LE SERVICE TECHNIQUE DE ATM FLY-WARE AUX ETATS-UNIS AU (310)639-8282 DU LUNDI AU VENDREDI DE 9 AM À 6 PM (HSP) OU PAR FAX AU (310)639-8284. YORKVILLE SOUND NE GARANTIE PAS UNE UTILISATION SÉCURITAIRE DES ENCEINTES SI LES LIMITES DE CHARGE RECOMMANDÉES NE SONT PAS RESPECTÉES ET SI VOUS N'ADHÉREZ PAS STRICTEMENT À LA LISTE DE QUINCAILLERIE RECOMMANDÉE.

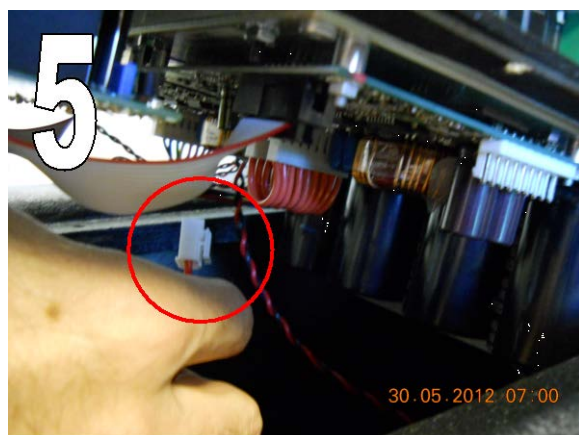
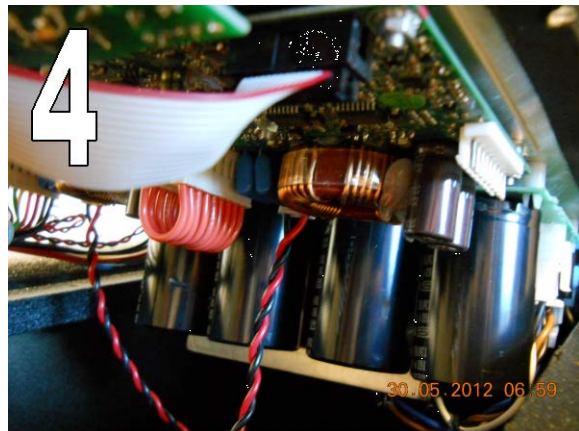


IMPORTANT!! RAILS DE MONTAGE (TRACK RAILINGS): LES ENCEINTES INCORPORANT LE SYSTÈME DE RAIL DE MONTAGE ONT LES MÊMES LIMITES DE CHARGE DE TRAVAIL QU'ILS SOIENT SUSPENDUS AVEC LE SYSTÈME DE RAIL OU AVEC LES BOULONS À OEIL. CES VALEURS ASSIGNÉES DE LIMITE DE CHARGE PEUVENT ÊTRE LIMITÉS ET BASÉS SUR LA VALEUR DE LIMITE DE CHARGE ASSIGNÉE AUX APPAREILLAGES DE RAIL (TRACK FITTINGS) ELLE-MÊMES. ASSUREZ-VOUS S.V.P. QUE LA VALEUR ASSIGNÉE DE LIMITE CHARGE DE TRAVAIL SUR LES APPAREILLAGES CERTIFIÉS DE RAIL (TRACK FITTINGS) EXÈDE LES LIMITES NÉCESSAIRES DE CHARGE DE TRAVAIL.

PSA1s Service Bulletin: Limiter Update

There is a simple change that can be implemented in any PSA1s having a serial number beginning with a 1. This bulletin will illustrate how to easily make this change, which will lead to greater long-term reliability and which will also improve the sound of the PSA1s when the inputs are excessively overdriven.

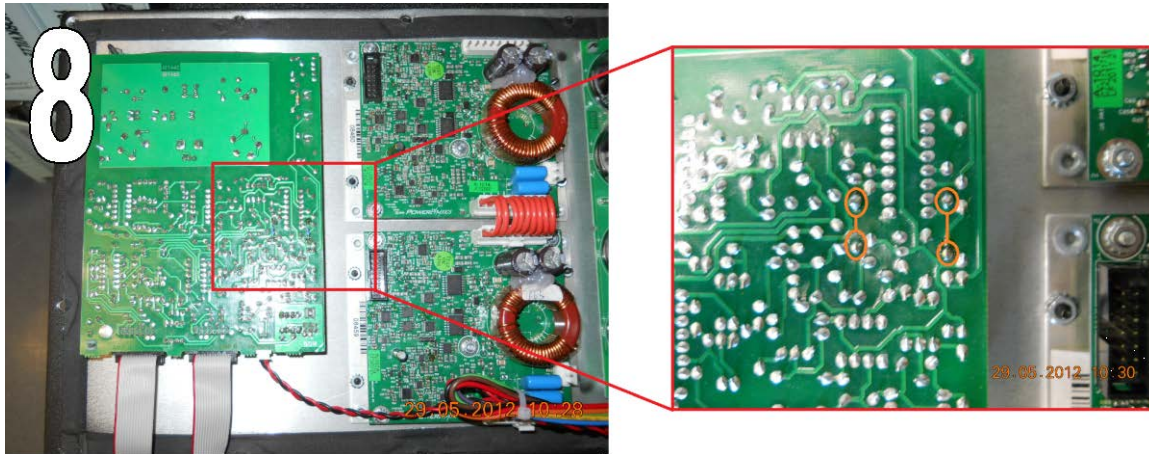
1. Lay down the PSA1s with the grille-side down.
2. Remove the 18 black bolts that are along the perimeter of the metal chassis on the back.
3. To remove the chassis, use a flathead screwdriver (or other similar prying device) and pry up the chassis from the side with the XLR jacks.
4. Carefully tilt up the side of the chassis you've lifted, raising it about four or five inches. If you look beneath the chassis, you'll see two pairs of black and red twisted wires running into the cabinet.
5. At the end of these wires is a locking header. If you pinch the clip on the header it will unlock and the wires can be easily disconnected from the amplifier boards.
6. After the wires are disconnected, you can remove the chassis from the box and set it on your work surface.



7. Disconnect the grey ribbon cables that run from the input/preamp board to the power amplifier boards.



8. Locate the position where you will be tacking the new resistors onto the back of the input/preamp PCB as depicted in the image below:



9. Tack a 20.0 k Ω 1% 1/4W resistor onto each of the two positions depicted above. (Yorkville Sound can supply you with 2x YS#6123 for this job if you require).
10. Re-assemble the PSA1s and test that it is working. (NOTE: either speaker wire [see image 4] can connect to either amplifier board when re-assembling).

Congratulations! Your PSA1s limiter will now better protect the woofers and amplifiers in the event of excessive input signals being driven into it.

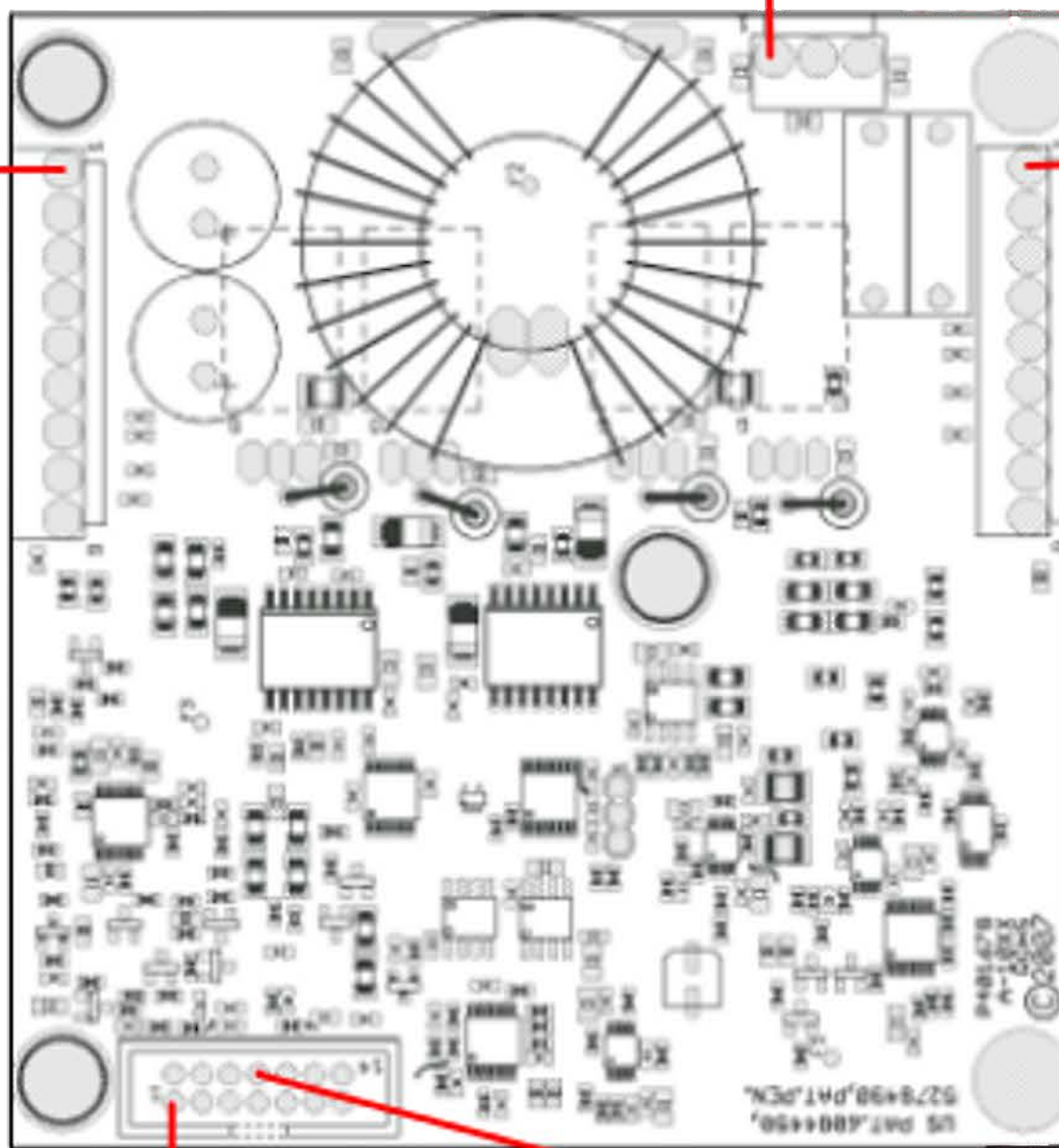
A-1214 Power Amplifier YS#9702

Important!

This module is not repairable

In case of failure it needs to be replaced.

Pin 1: Vbus
Pin 2: Vbus
Pin 3: Ground
Pin 4: Ground
Pin 5: +15 Vdc
Pin 6: -15 Vdc
Pin 7: +5Vdc
Pin 8: -5Vdc
Pin 9: Ground



Pin 1: Output +
Pin 2: Ground
Pin 3: Output -

Pin 1: Vbus
Pin 2: Vbus
Pin 3: Ground
Pin 4: Ground
Pin 5: +15Vdc
Pin 6: -15 Vdc
Pin 7: +5 Vdc
Pin 8: -5 Vdc
Pin 9: Ground

Pin 1: Ground
Pin 2: Audio In +
Pin 3: Audio In -
Pin 4: Ground
Pin 5: +15 Vdc
Pin 6: -15 Vdc
Pin 7: Ground

Pin 8: Current Monitor
Pin 9: Temperature Monitor
Pin 10: Protect
Pin 11: Disable
Pin 12: Clip
Pin 13: +5 Vdc
Pin 14: -5 Vdc



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