



SERVICE MANUAL

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

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SMT Disclaimer

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

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

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

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

Quality and Innovation Since 1963
Printed in Canada

IMPORTANT SAFETY INSTRUCTIONS

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

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

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

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

⚠ **CAUTION: OVERHEAD LOAD ATTENTION: CHARGE AÉRIENNE**

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

DO NOT PUSH OR PULL

NOT TO BE SERVICED BY USERS

SEPARATE COLLECTION WEEE

CAUTION: HOT SURFACE ATTENTION: SURFACE CHAUDE

FOLLOW ALL INSTRUCTIONS

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

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. THIS DEVICE IS FOR INDOOR USE ONLY!

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

SUIVEZ TOUTES LES INSTRUCTIONS

Instructions relatives au risque de feu, choc électrique, ou blessures aux personnes

AVIS: AFIN DE RÉDUIRE LES RISQUES DE CHOC ÉLECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIÈRE) NE CONTIENT AUCUNE PIÈCE RÉPARABLE PAR L'UTILISATEUR. CONSULTEZ UN TECHNICIEN QUALIFIÉ POUR L'ENTRETIEN CE PRODUIT EST POUR L'USAGE À L'INTÉRIEUR SEULEMENT. LES PACKS BATTERIES INSTALLÉS NE DOIVENT PAS ÊTRE EXPOSÉS À UNE CHALEUR EXCESSIVE TELLE QUE LE ENSOLEILLEMENT, LE FEU OU SIMILAIRES.

Read Instructions: The Owner's Manual should be read and understood before operation of your unit. Please, save these instructions for future reference and heed all warnings.

Cleaning: Clean only with dry cloth.

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

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

Warning: When using electric products, basic precautions should always be followed, including the following:

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

Nettoyage: Nettoyez seulement avec le tissu sec.

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

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

Power Sources

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated. An apparatus with CLASS 1 construction shall be connected to a Mains socket outlet with a protective earthing connection. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Attention: Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

Alimentation - L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent être prises afin d'éviter que le système de mise à la terre de l'appareil ne soit désengagé. Un appareil construit selon les normes de CLASS 1 devrait être raccordé à une prise murale d'alimentation avec connexion intacte de mise à la masse. Lorsqu'une prise de branchement ou un coupleur d'appareils est utilisée comme dispositif de débranchement, ce dispositif de débranchement devra demeurer pleinement fonctionnel avec raccordement à la masse.

Hazards

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. Only use attachments/accessories specified by the manufacturer.

Risque - Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendu avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant. Utilisez seulement les attachements/accessoires indiqués par le fabricant.

Equipment that is suspended overhead must use a secondary safeguard to prevent personal injury in the event the primary mounting mechanism fails. Safety eyebolts attached to the equipment and galvanized steel wire can be used together to implement a failsafe mounting thus ensuring the safety of the equipment and anyone positioned below the equipment.

L'équipement suspendu au-dessus de la tête doit utiliser une protection secondaire pour éviter les blessures en cas de défaillance du mécanisme de montage principal. Les boulons à œil de sécurité fixés à l'équipement et le fil d'acier galvanisé peuvent être utilisés ensemble pour mettre en œuvre un montage à sécurité intégrée, assurant ainsi la sécurité de l'équipement et de toute personne placée sous l'équipement.

Improper installation can result in bodily injury or death. If you are not qualified to attempt the installation get help from a professional structural rigger. *Note: Prolonged use of headphones at a high volume may cause health damage to your ears.*

Remarque : L'utilisation prolongée d'écouteurs à un volume élevé peut nuire à la santé de vos oreilles.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus. Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords. Ensure that proper ventilation is provided around the appliance. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. No naked flame sources, such as lighted candles, should be placed on the apparatus.

L'appareil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil. Assurez que l'appareil est fourni de la propre ventilation. Ne procédez pas à l'installation près de source de chaleur tels que radiateurs, registre de chaleur, fours ou autres appareils (incluant les amplificateurs) qui produisent de la chaleur. Les dispositifs marqués d'un symbole "d'éclair" sont des parties dangereuses au toucher et que les câbles extérieurs connectés à ces dispositifs de connexion extérieure doivent être effectués par un opérateur formé ou en utilisant des cordons déjà préparés.

Power Cord

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

Assurez-vous d'endommager le cordon d'alimentation. Protégez le cordon d'alimentation. Assurez-vous qu'on ne marche pas dessus et qu'on ne le pince pas en particulier aux prises. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé. Pour débrancher complètement cet appareil de l'alimentation CA principale, déconnectez le cordon d'alimentation de la prise d'alimentation murale. Le cordon d'alimentation du bloc d'alimentation de l'appareil doit demeurer pleinement fonctionnel.

Service

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

Débranchez cet appareil durant les orages ou si inutilisé pendant de longues périodes. **Service** - L'appareil ne doit être entretenu que par un personnel de service qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque manière que ce soit, comme le cordon d'alimentation ou la fiche est endommagé, du liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement, nécessite le remplacement de la batterie et est tombé. Débranchez l'alimentation avant l'entretien!

IMPORTANT SAFETY INSTRUCTIONS

⚡ The Lightning Flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of shock to persons

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

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

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

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prongs are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

1. Lisez ces instructions.
2. Conservez ces instructions.
3. Respecter tous les avertissements.
4. Suivez toutes les instructions.
5. N'utilisez pas l'appareil près de l'eau.
6. Nettoyer uniquement avec chiffon sec.
7. Ne bloquez pas les ouvertures de ventilation. Installer en suivant les instructions du fabricant.
8. Ne pas installer près des sources de chaleur telles que radiateurs, bouches de chaleur, four ou autres appareils (y compris les amplificateurs) produisant de la chaleur.
9. N'annulez pas l'objectif sécuritaire de la fiche polarisée ou de la tige de mise à la terre. Une fiche polarisée possède deux lames avec une plus large que l'autre. Une prise avec mise à la terre possède deux lames et une troisième tige. La lame large ou la troisième tige sont fournis pour votre sécurité. Si la fiche rentre pas dans votre prise, consultez un électricien pour remplacer la prise obsolète.
10. Protéger le cordon d'alimentation des piétements ou pincements en particulier près des fiches, des prises de courant et au point de sortie de l'appareil.
11. Utilisez uniquement les accessoires spécifiés par le fabricant.
12. Utilisez uniquement avec un charriot, stand, trépied ou une table spécifiée par le fabricant, ou vendus avec l'appareil.
13. Débranchez l'appareil durant un orage ou lorsqu'il reste inutilisé pendant de longues périodes de temps.
14. Confiez toute réparation à un technicien qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce soit; comme lorsque le cordon d'alimentation ou la fiche est endommagé, lorsque du liquide a été renversé ou des objets sont tombés à l'intérieur, lorsque l'appareil a été exposé à la pluie ou l'humidité, ne fonctionne pas normalement, ou est tombé.

WARNING:

- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
- To completely disconnect this apparatus from the ac mains, disconnect the power supply cord plug from the ac receptacle.
- The mains plug of the power supply cord or appliance coupler shall remain readily accessible.

AVERTISSEMENT:

- Pour réduire les risques d'incendie ou de choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité et ne placez pas d'objets contenant des liquides, tels que des vases, sur l'appareil.
- Pour isoler totalement cet appareil de l'alimentation secteur, débranchez totalement son cordon d'alimentation du réceptacle CA.
- La prise du cordon d'alimentation ou du prolongateur, si vous en utilisez un comme dispositif de débranchement, doit rester facilement accessible

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

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

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

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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	



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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

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Input Mode
 Line
 Spkr

Level
 Min Max

Input (LINK)

Clip
Limit
Pwr

Specifications

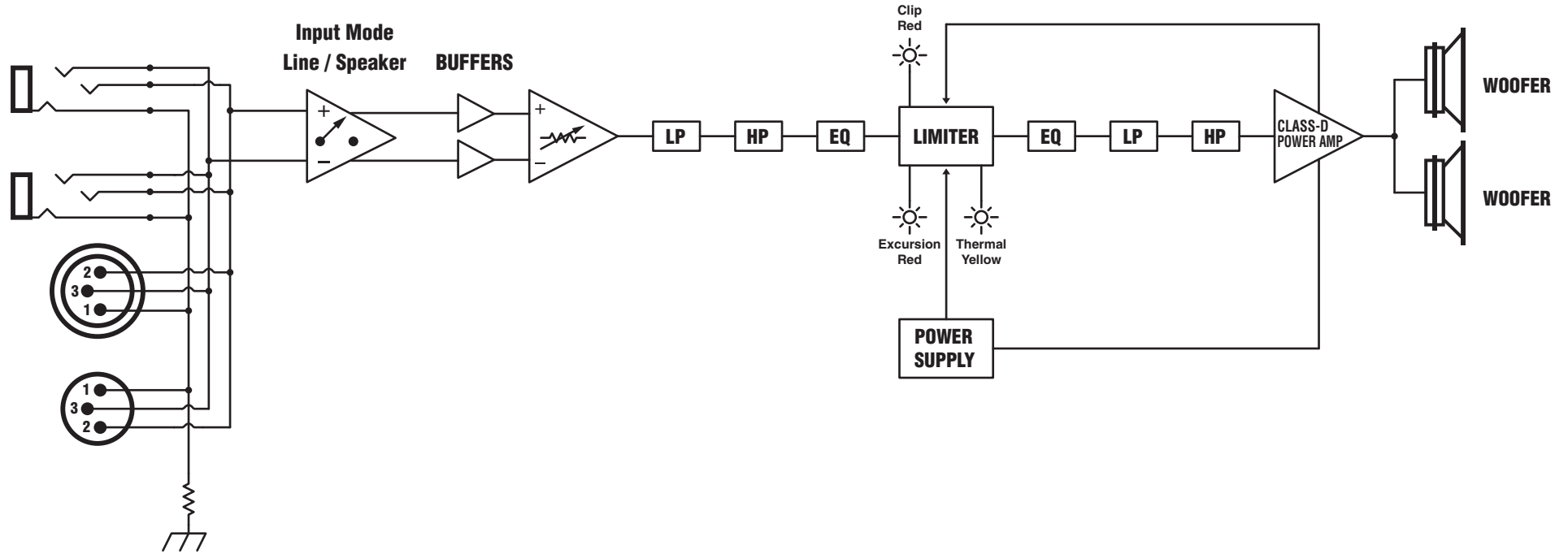
Active or Passive	Active
Program Power (watts)	1400 Watts Program (2800 Watts Peak)
Max SPL (dB)	135dB Peak (129dB Continuous)
Frequency Response (Hz +/- 3db)	37Hz-100Hz
Crossover Frequency (Hz)	fixed @ 100Hz
Driver Configuration	2x12-inch (Bass Reflex Cabinet)
LF Driver(s)	2x12-inch Ceramic with 3-inch 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

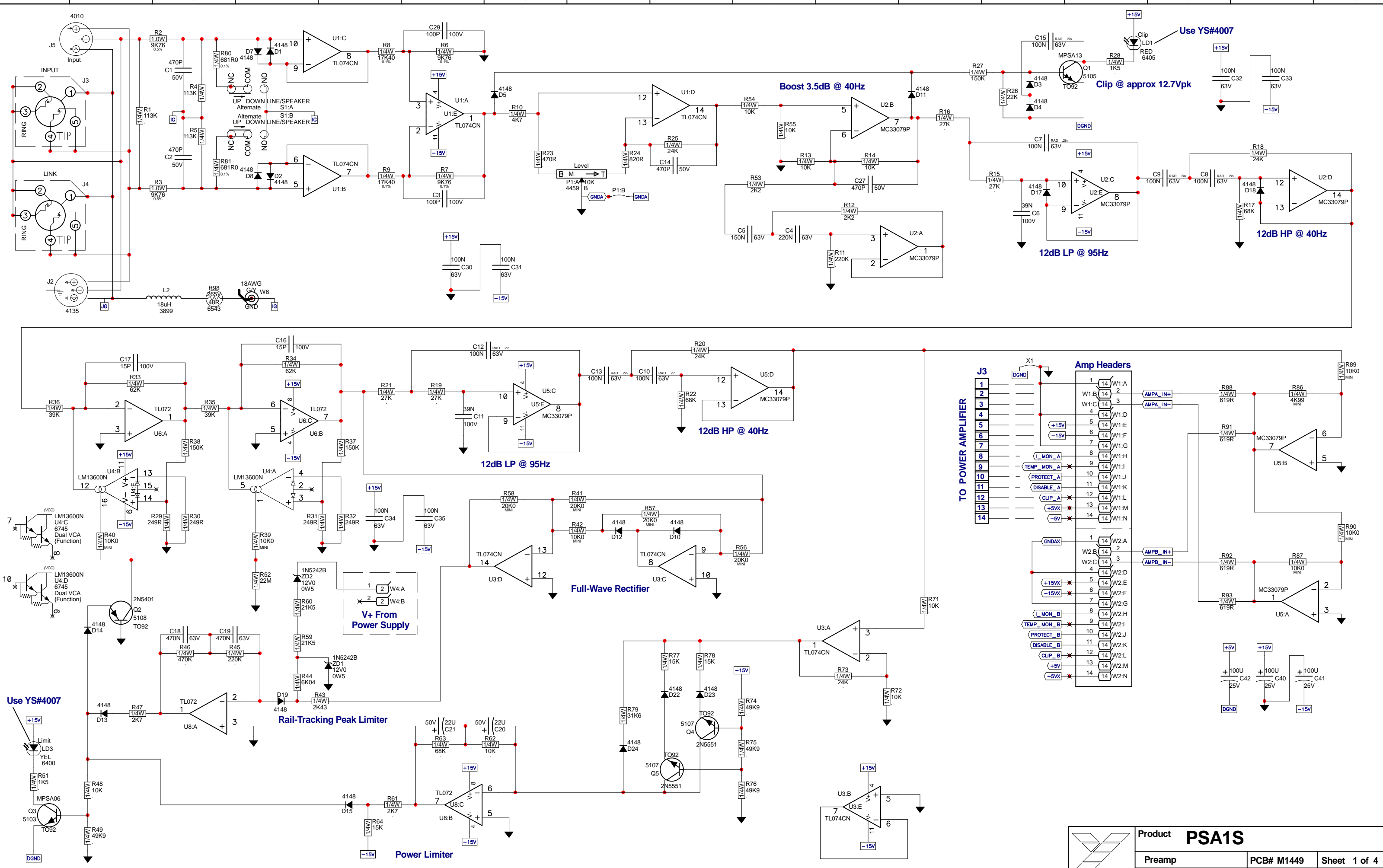
Block Diagram for PSA1s

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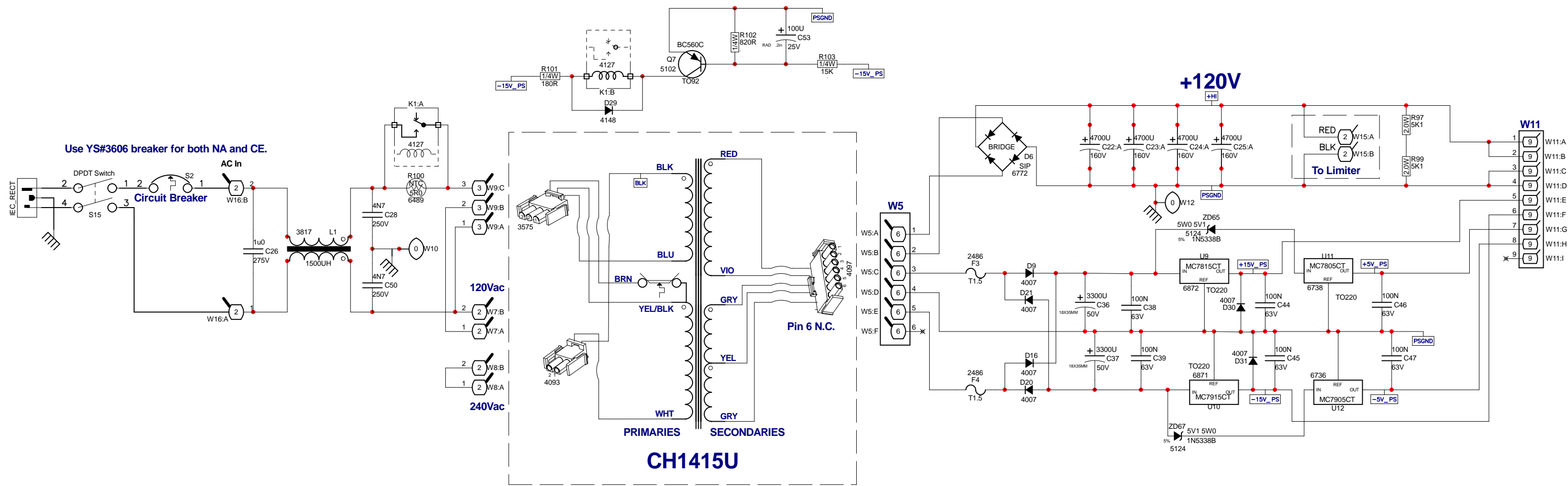


M1698 Rev2 Parts Reference List 3/17/2020

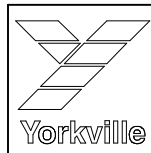
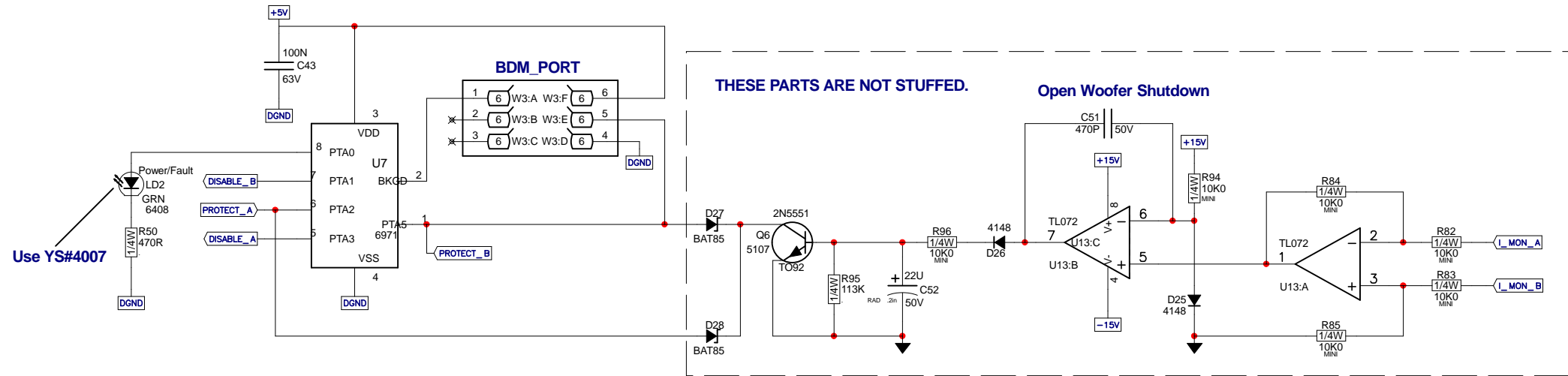
REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
C1		470P 250V 5%CAP 0603 SMT NP0	Q21		MMBTA14 NPN DARL SOT-23 SMT	S1	3522	DPDT MINI PC VERT SNP ALT
C2		470P 250V 5%CAP 0603 SMT NP0	R1		W100 1K0 1% 0805 SMT RES	U1		33078 DUAL OPAMP SMT SO-8
C3	5213	1N 630V 5%CAP T&R RAD PRO .2FLM	R2		W125 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)



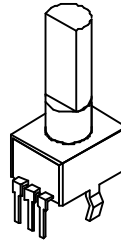
M1449 PCB HISTORY

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

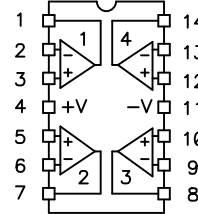
MODEL(S):-		PSA1S		
REF	FUNCTION	PART#	KNOB	STYLE
P1	Level	4432	8653	P32
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N



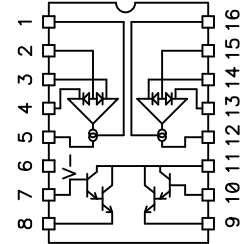
"STYLE_P32"

LEADS & PINS REFERENCE

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



LM13600N (YS#6745)

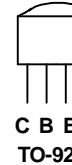


2N5401 (YS#5108)
2N5551 (YS#5107)
MPSA06 (YS#5103)
MPSA13 (YS#5105)



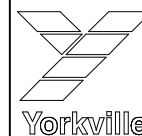
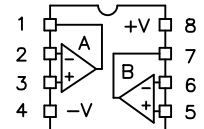
E B C
TO-92

BC560C (YS#5102)



C B E
TO-92

TL072CP (YS#6882)



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

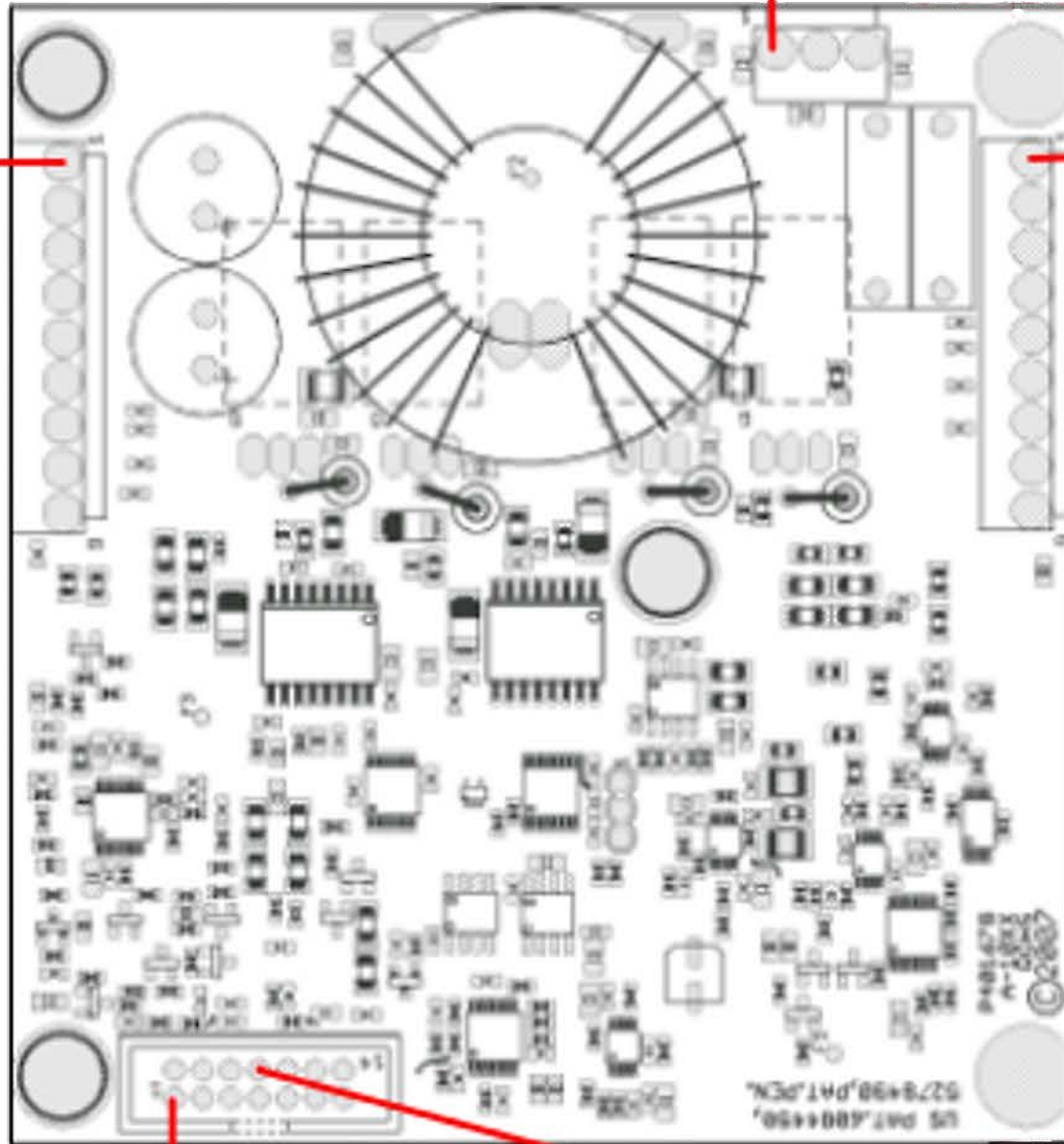
Important!

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



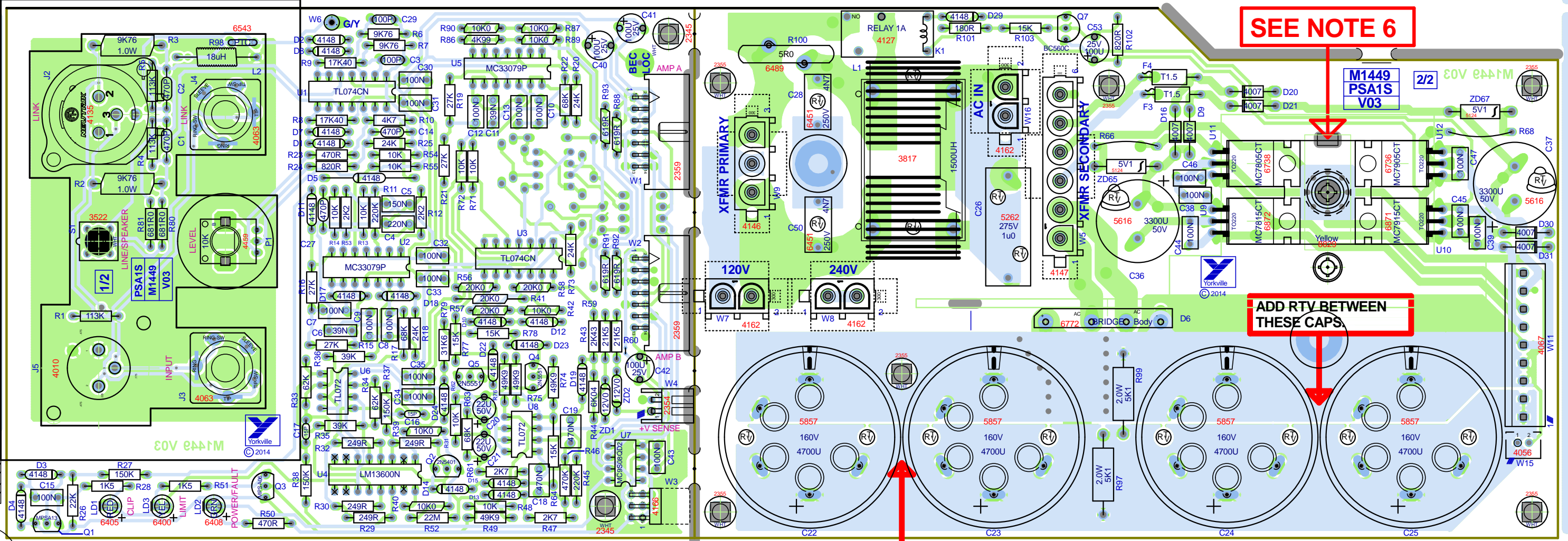
- Pin 1: Output +
- Pin 2: Ground
- Pin 3: Output -

- 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

SEE LAYOUT DOCUMENTATION



M1449 V03



Yorkville
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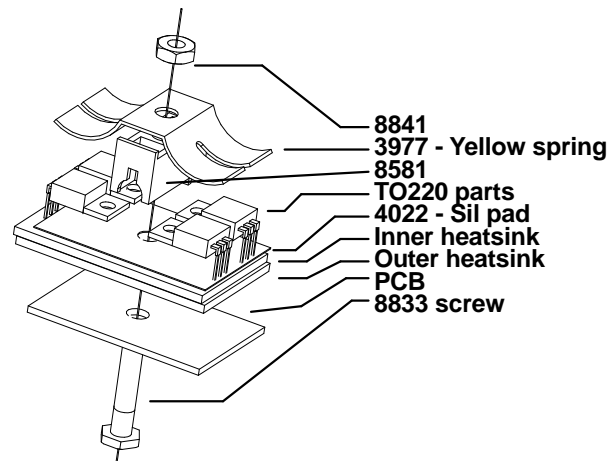
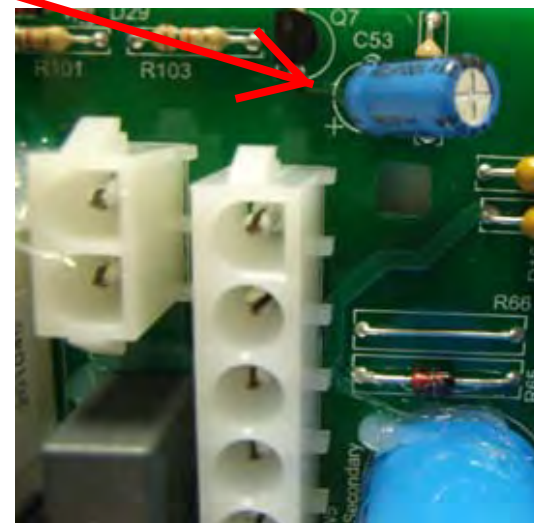


SEE LAYOUT DIAGRAM



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!



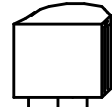


SEE LAYOUT DIAGRAM



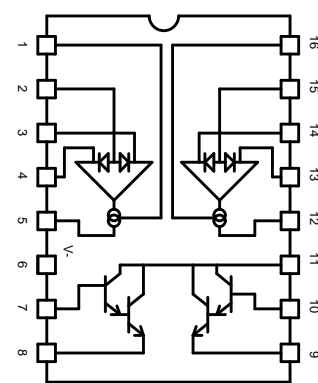
LEADS & PINS REFERENCE

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



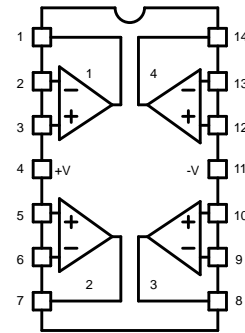
E B C
TO-92

LM13600N (YS#6745)

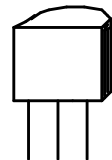


MC33079P (YS#6804)

TL074CN (YS#6889)

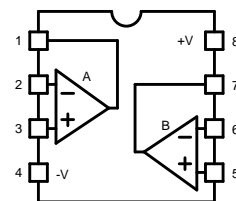


BC560C (YS#5102)



C B E
TO-92

TL072CP (YS#6882)

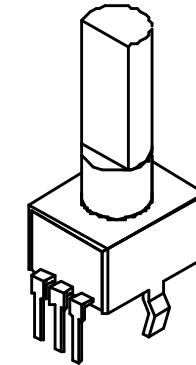


POTENTIOMETERS AND KNOBS

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



"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

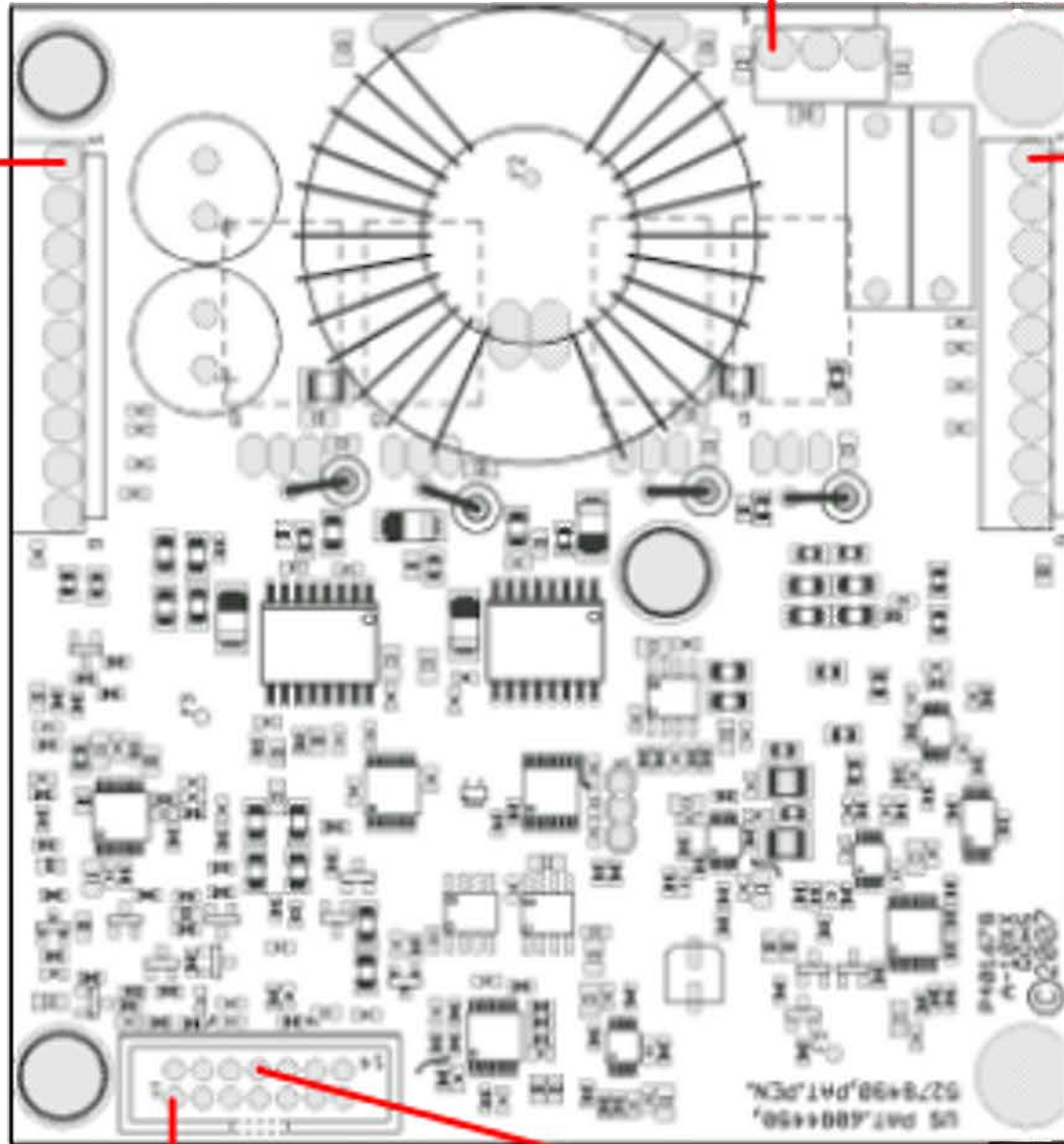
Important!

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

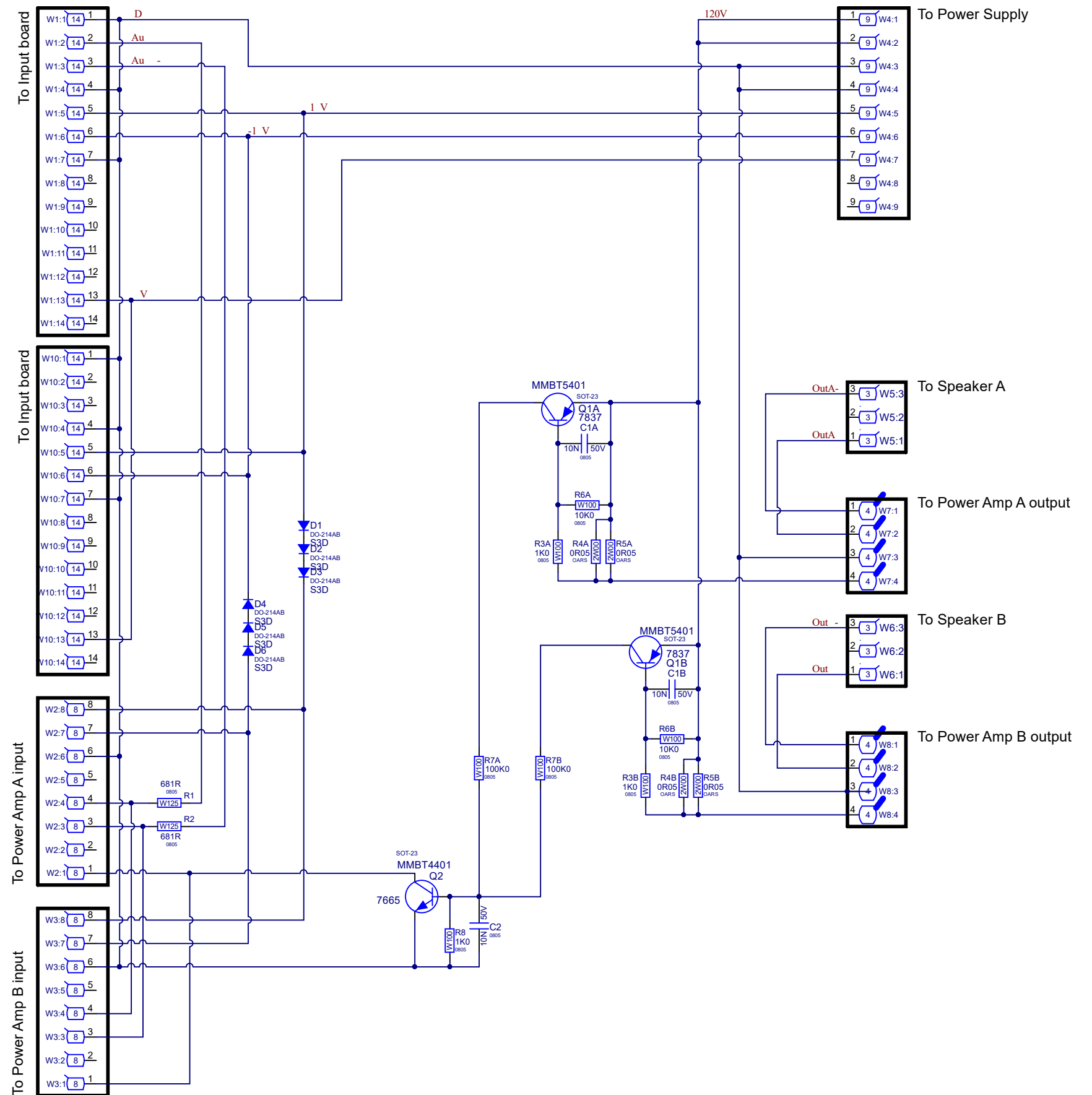


- Pin 1: Output +
- Pin 2: Ground
- Pin 3: Output -

- 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
2
3
4
5
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9
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11
12
13

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1
2
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13

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1
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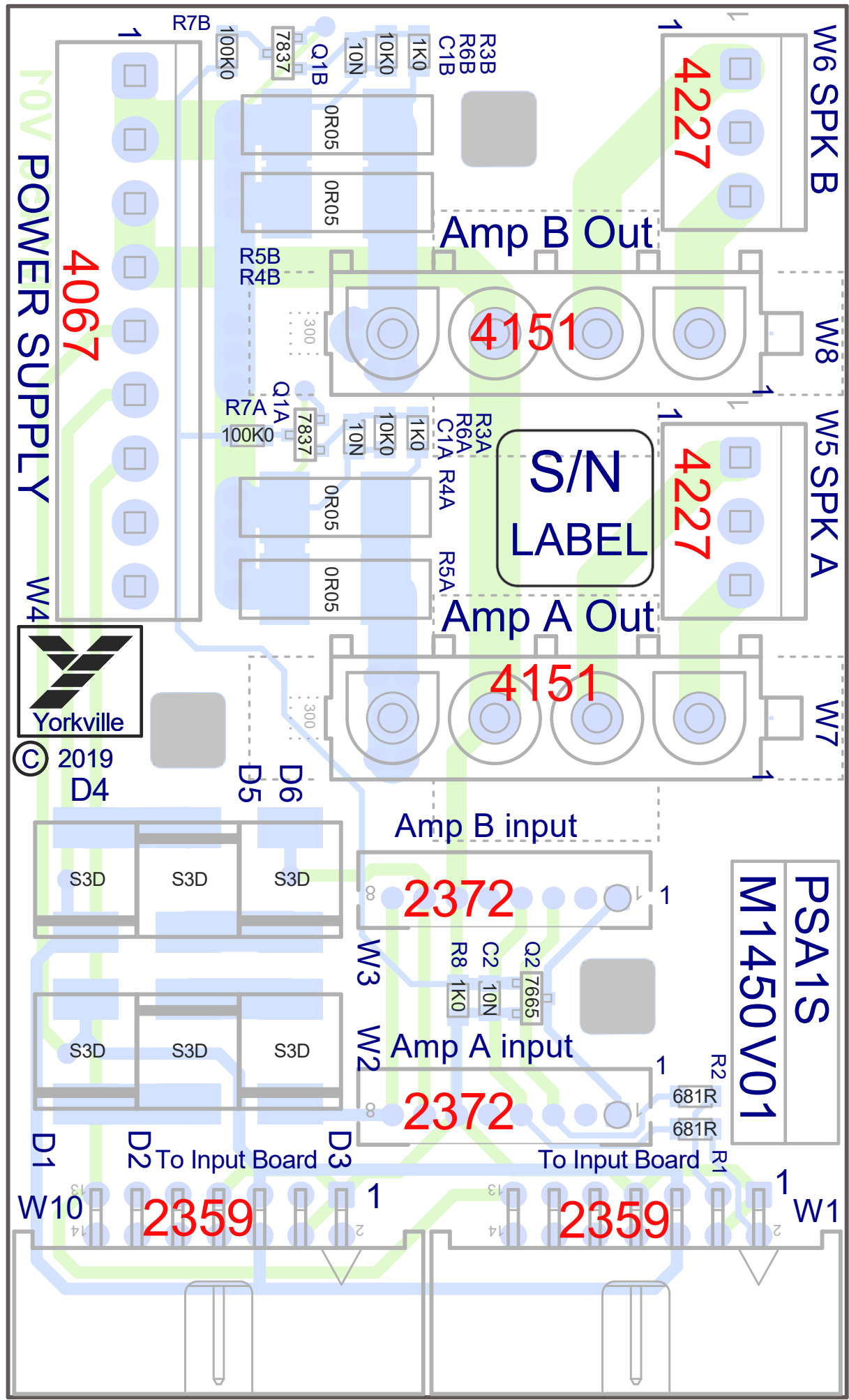
POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
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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): PSA1S			
	PCB#: M1450	Rev#: V01	EML Rev#: 01	Sheet 1 Of *
	Modified: 2019-03-27	File: History.SchDoc	Tmp Rev: V032	

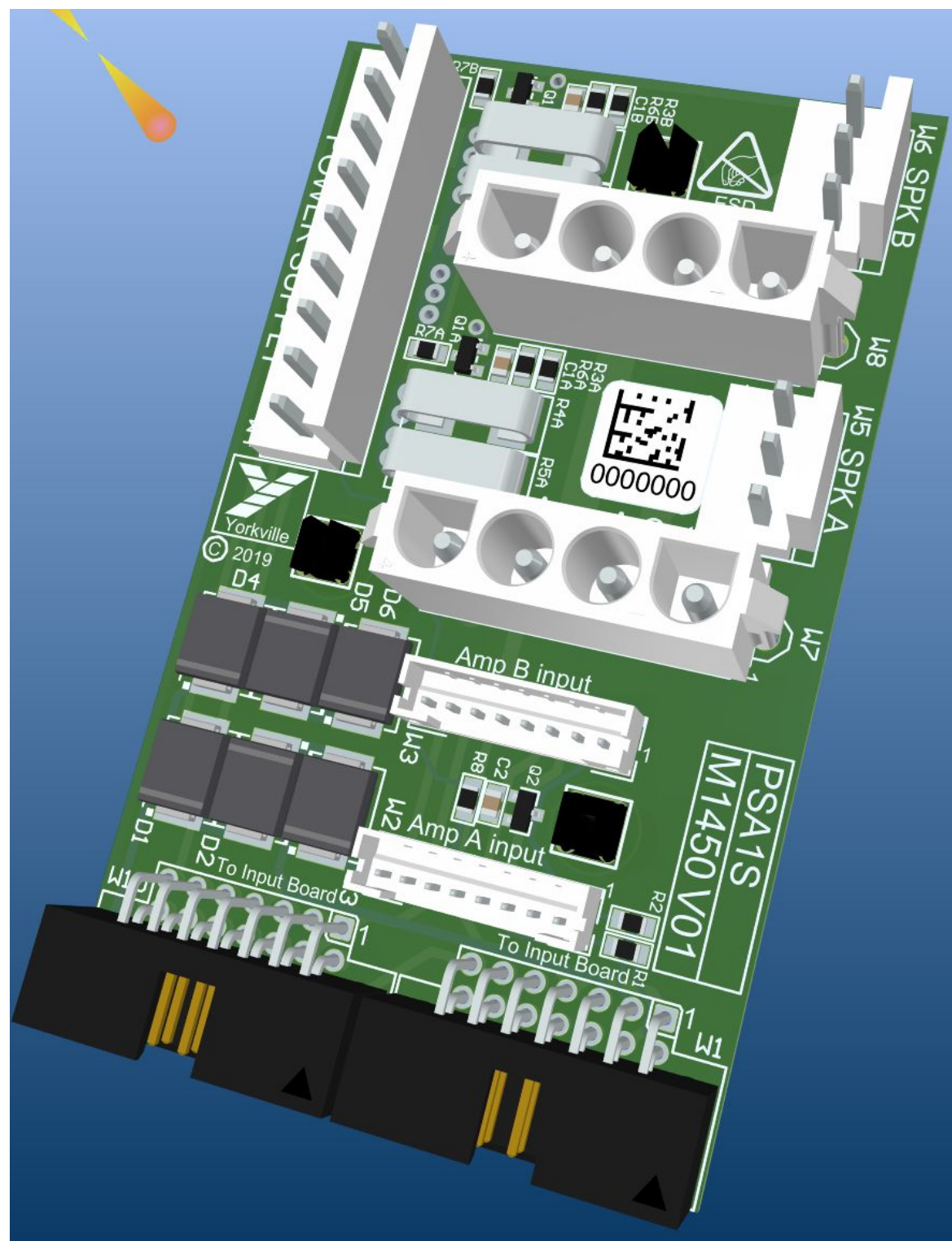


PSA1S M1450 V01

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

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1
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12
13

#	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#
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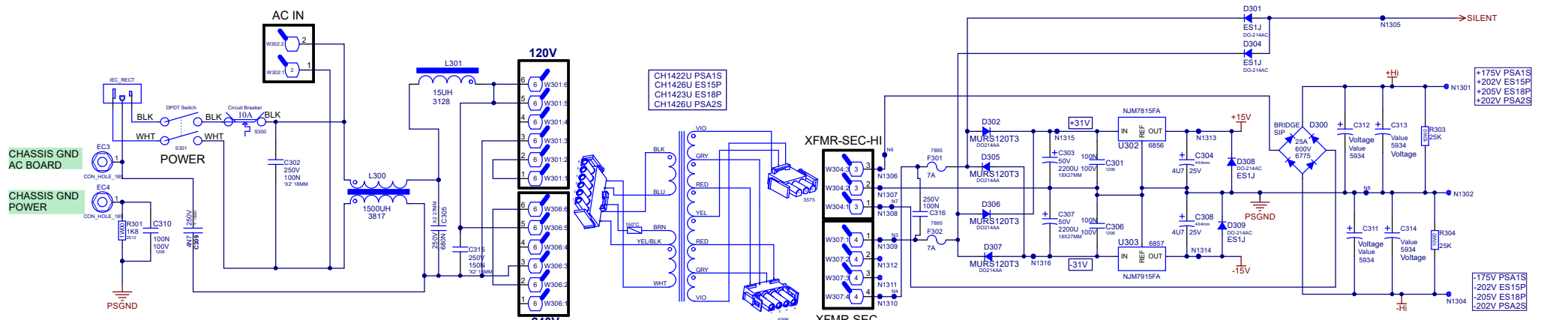
PINOUT DIAGRAMS

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



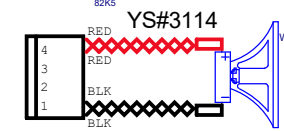
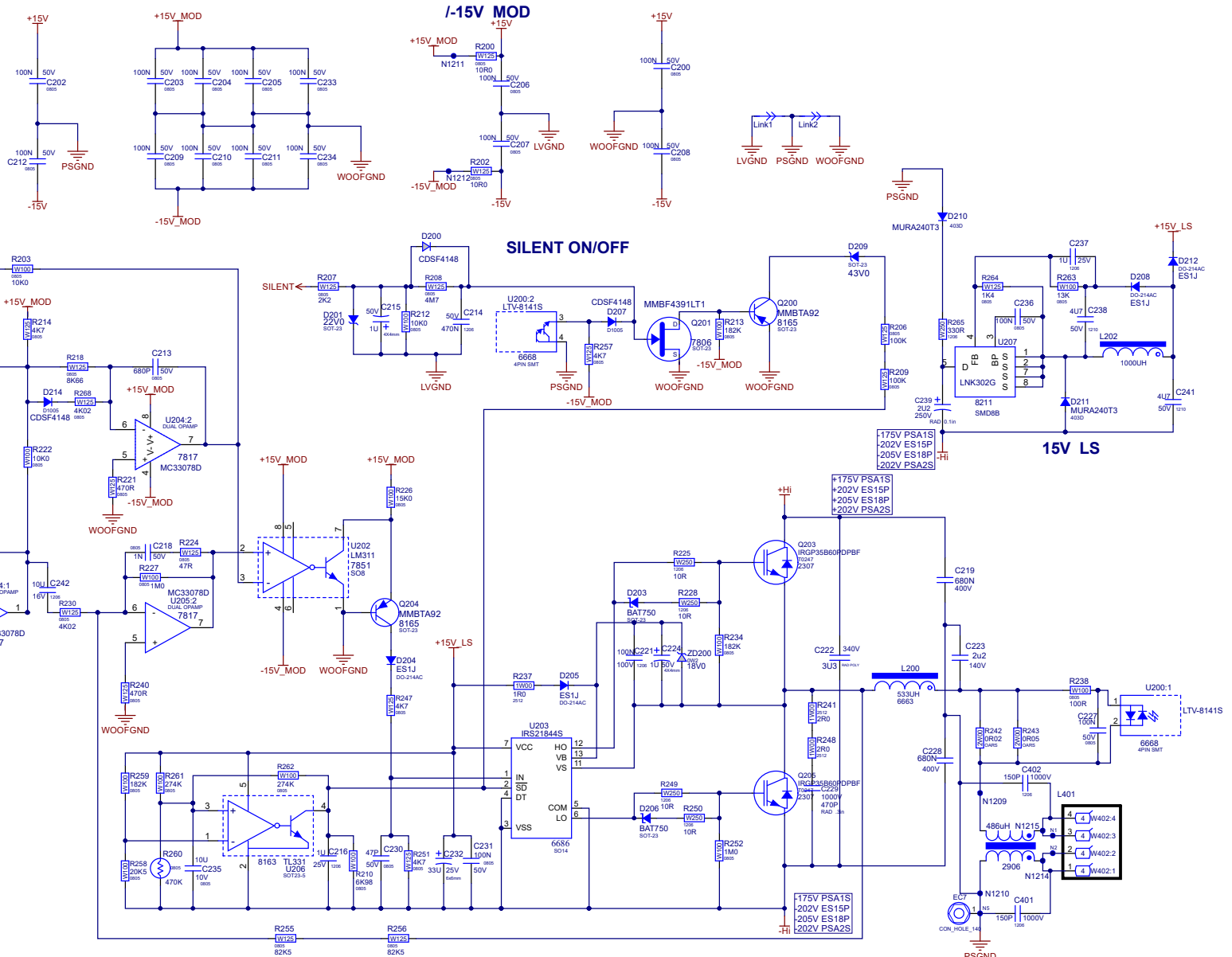
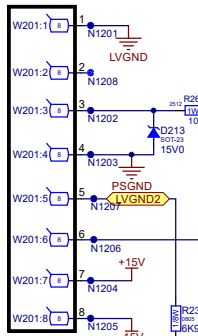
POWER SUPPLY

TO POWER AMP PCB



SUBWOOFER AMP

FROM INPUT PCB



- 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

Yorkville

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

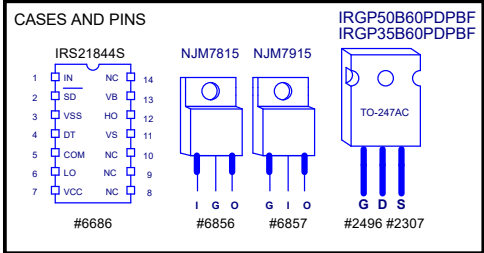
CHANGE HISTORY

#	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
10				
11				
12				
13				
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1				
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13				

POTENTIOMETERS AND KNOBS

POTENTIOMETERS AND KNOBS				
REF	FUNCTION	POT#	STYLE	KNOB#

PINOUT DIAGRAMS

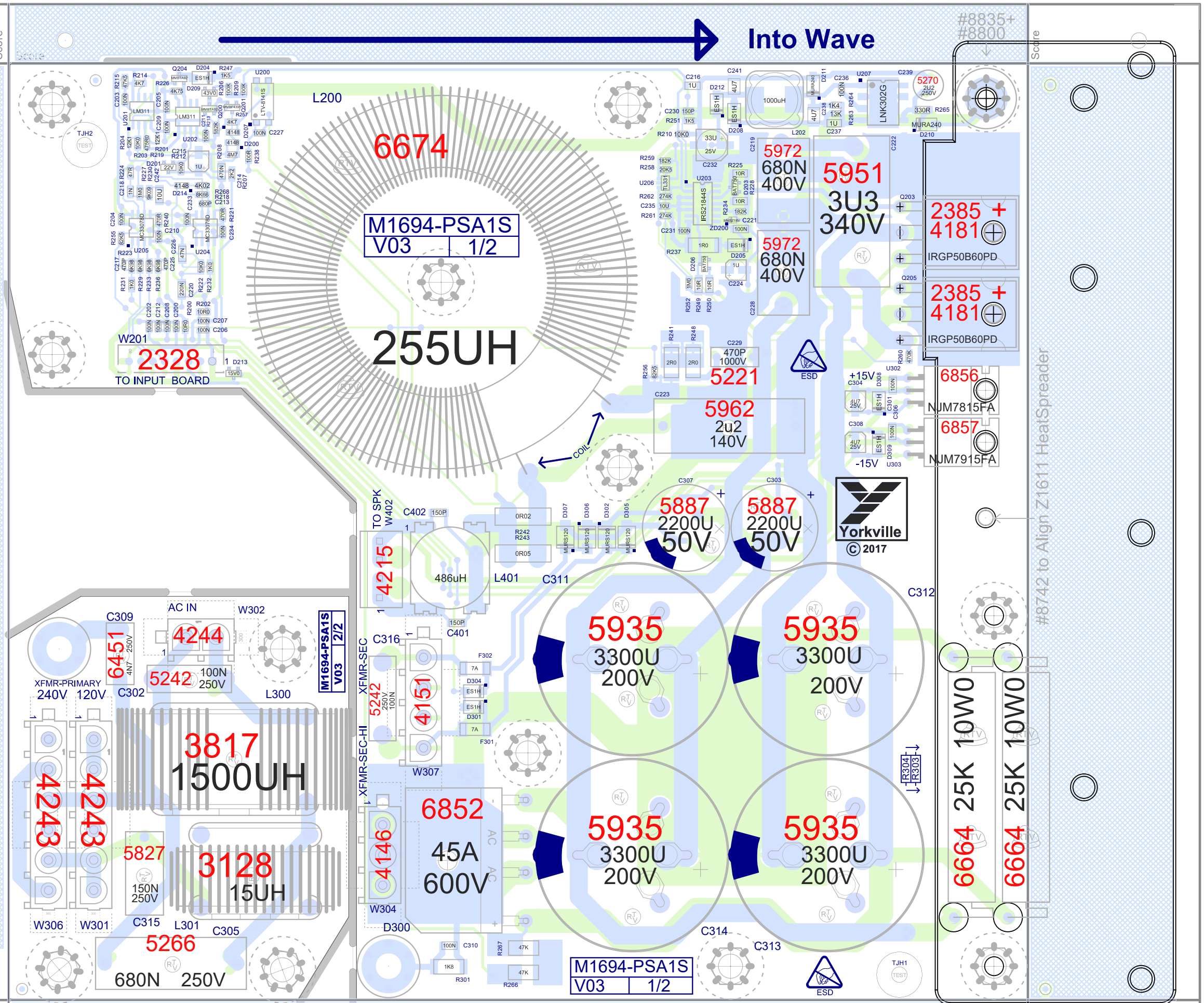


THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

	Section: Design Information And History		
	Product(s): ES12P/ES15P/ES18P/ES21P/PSA1S/PSA2S		
	PCB#: _____	Rev#: V03	EML Rev#: 01
	Modified: 2018-10-09	File: History.SchDoc	Sheet 2 of 3
		Tmp Rev: V028	

BlankSize - 261mmX222mm(10276X8740)

Into Wave



6674

M1694-PSA1S
V03 1/2

255UH

2328
TO INPUT BOARD

5972
680N
400V

5951
3U3
340V

2385 +
4181 +

2385 +
4181 +

5962
2u2
140V

5887
2200U
50V

5887
2200U
50V

5935
3300U
200V

5935
3300U
200V

5935
3300U
200V

5935
3300U
200V

6664 25K 10W0

6664 25K 10W0

3817
1500UH

3128
15UH

680N 250V

6852
45A
600V

M1694-PSA1S
V03 1/2



CLINCH
ORIGIN

M1694-PSA1S V03

PCB ASSEMBLY DOCUMENTATION

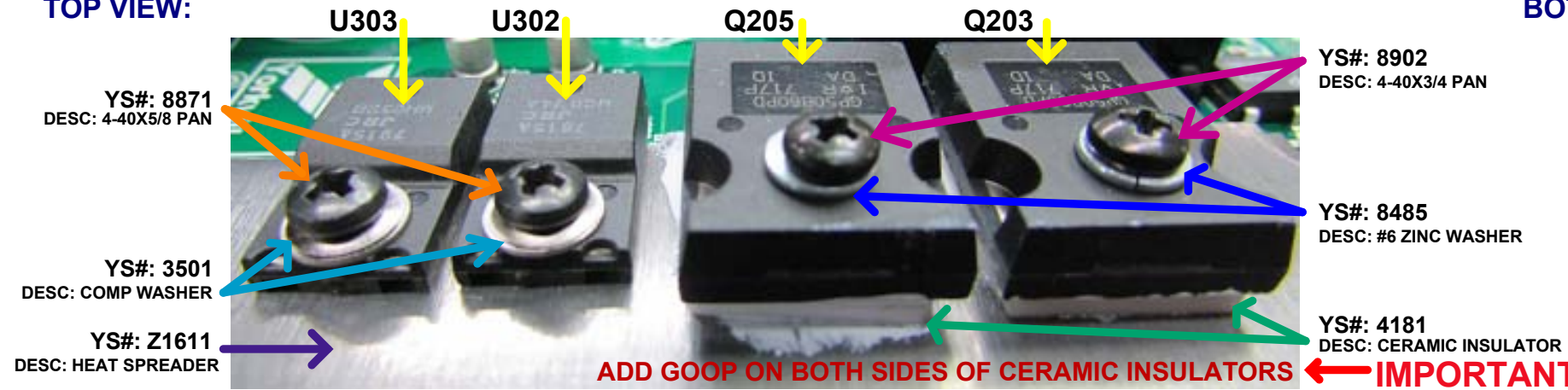
MOUNTING HARDWARE & INSTRUCTIONS FOR HEAT SPREADER ZC1611:

- 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.

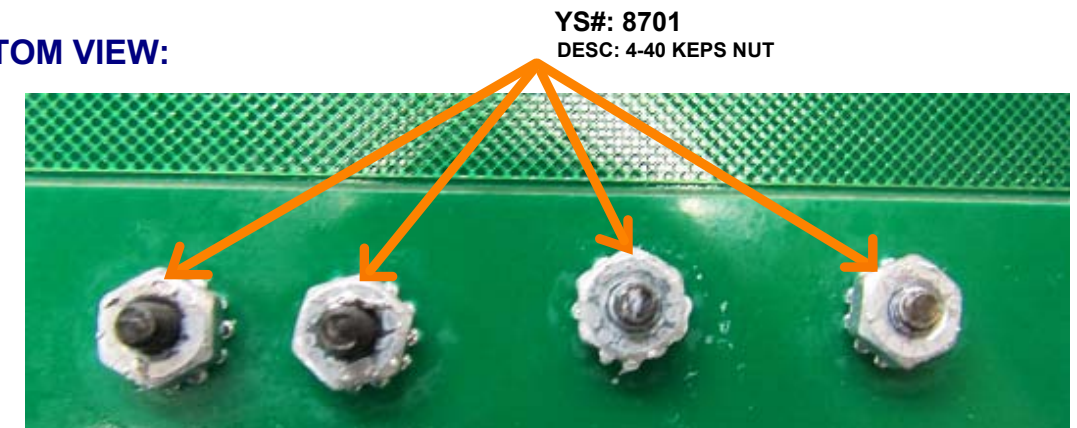


MOUNTING HARDWARE FOR U302/U303 AND Q203/Q205:

TOP VIEW:

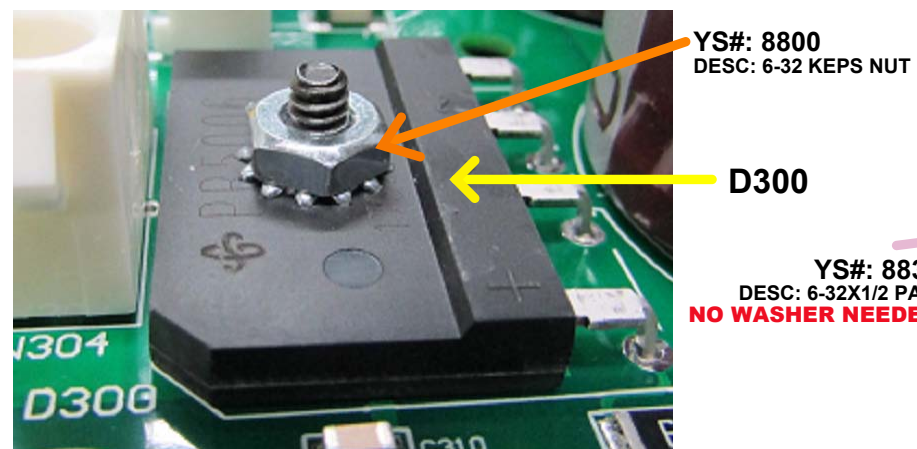


BOTTOM VIEW:

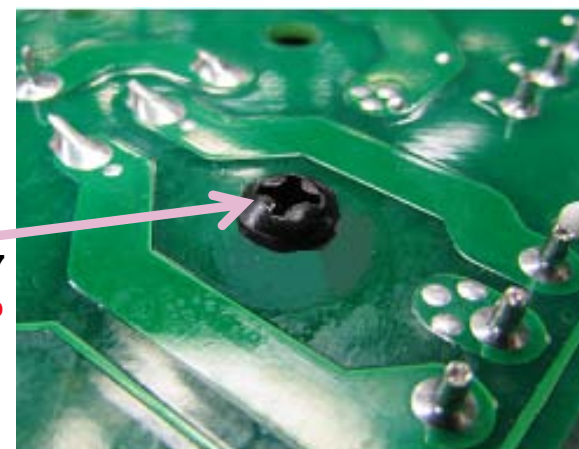


MOUNTING HARDWARE FOR D300:

TOP VIEW:

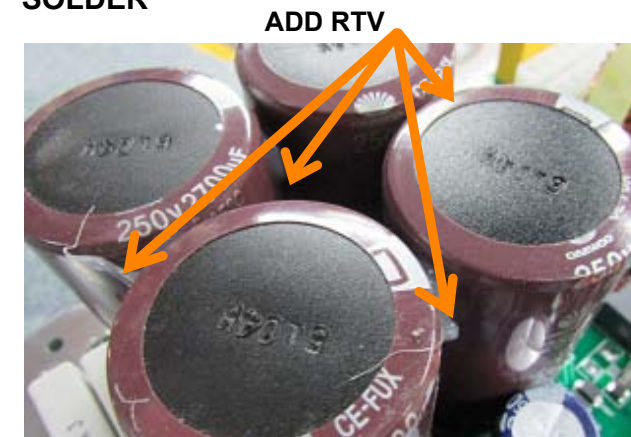


BOTTOM VIEW:



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

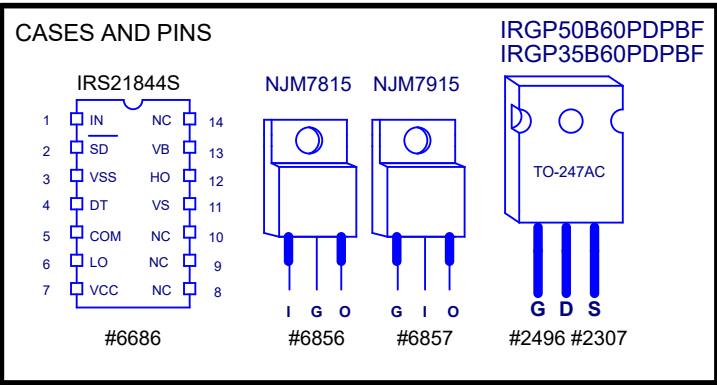
CHANGE HISTORY

#	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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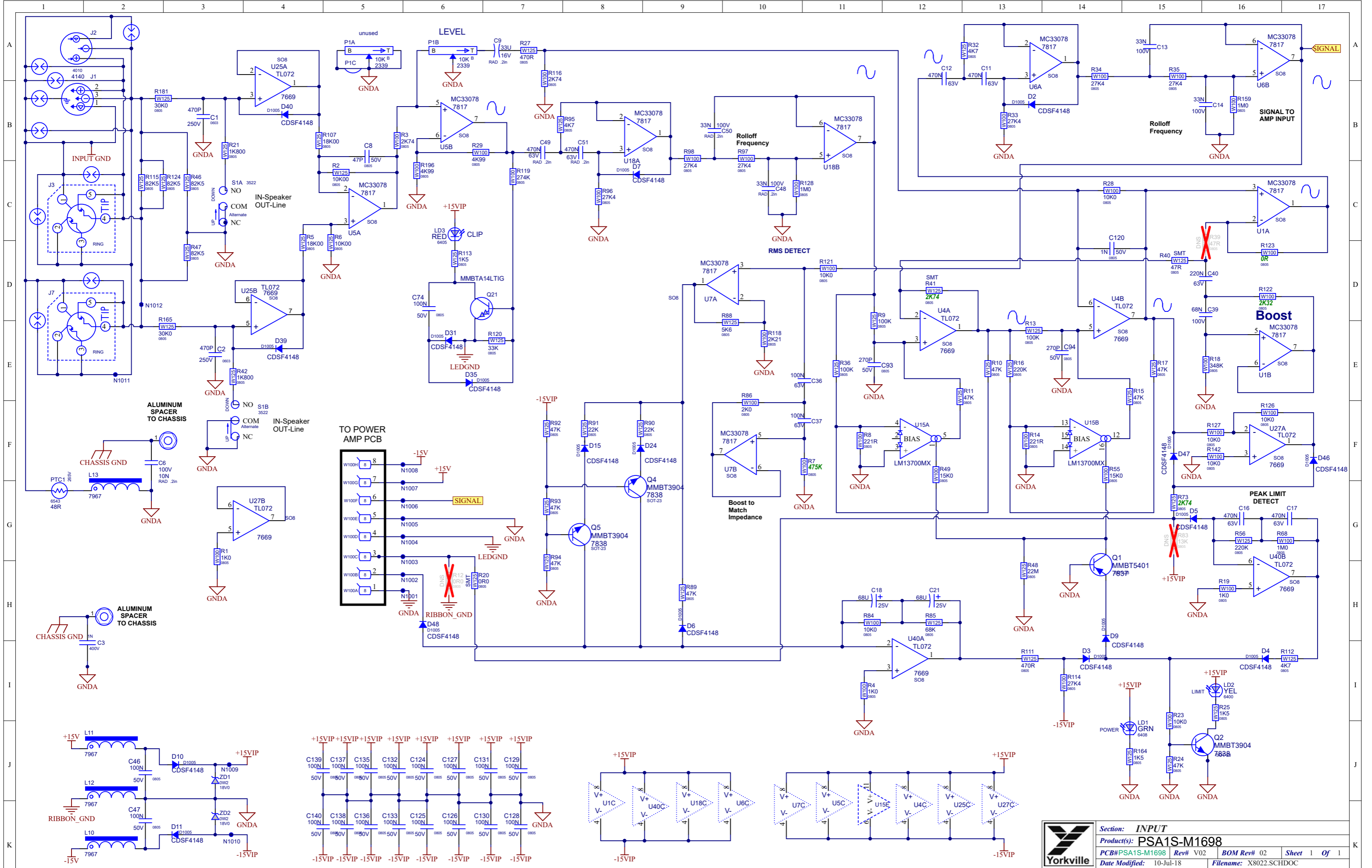
POTENTIOMETERS AND KNOBS

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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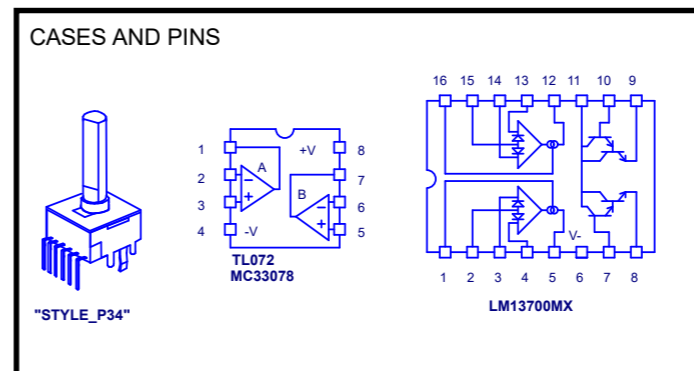
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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POTENTIOMETERS AND KNOBS

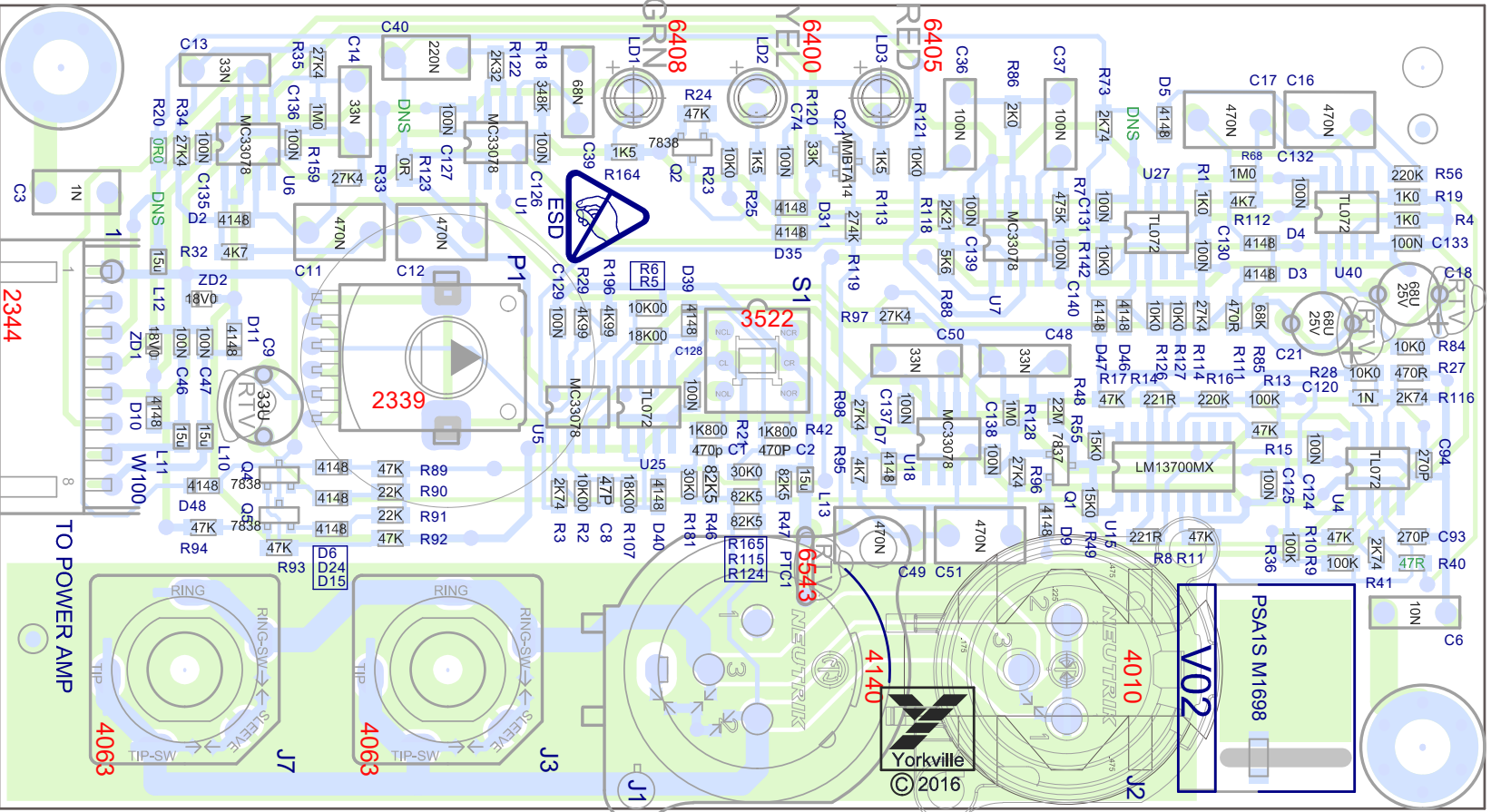
REF	FUNCTION	POT#	STYLE	KNOB#
P1	LEVEL	2339	P34	8653
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PINOUT DIAGRAMS



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

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

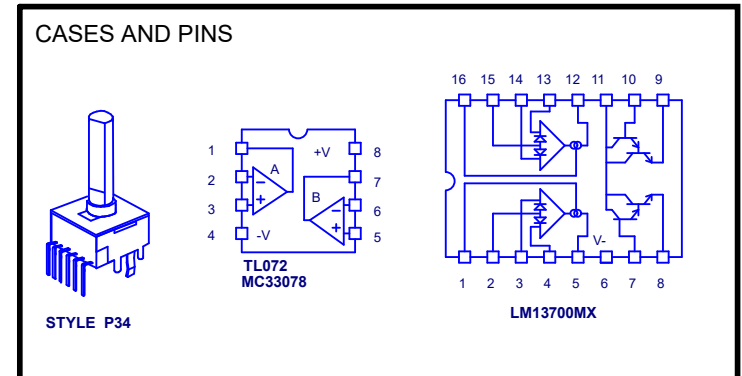
CHANGE HISTORY

#	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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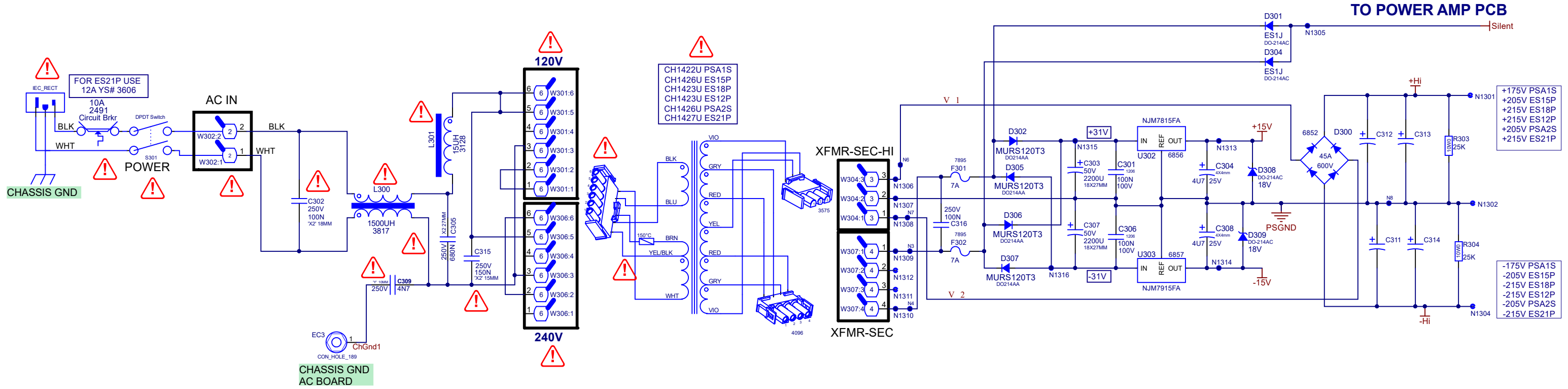
PINOUT DIAGRAMS



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



POWER SUPPLY

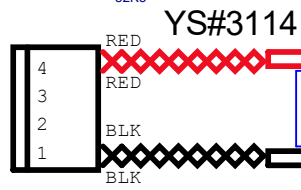
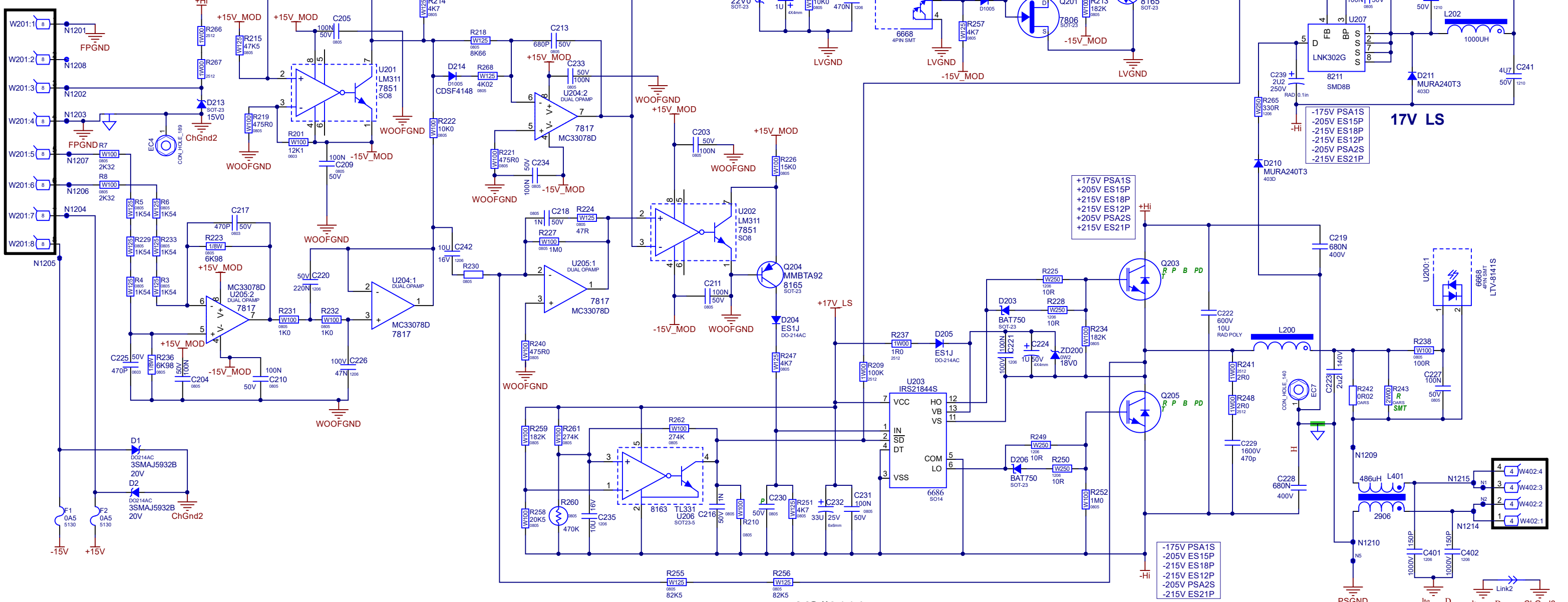


Critical Safety Components

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	Sheet 2 Of 4
	Date Modified: 2020-10-28	Filename: Amp.SCHDOC		

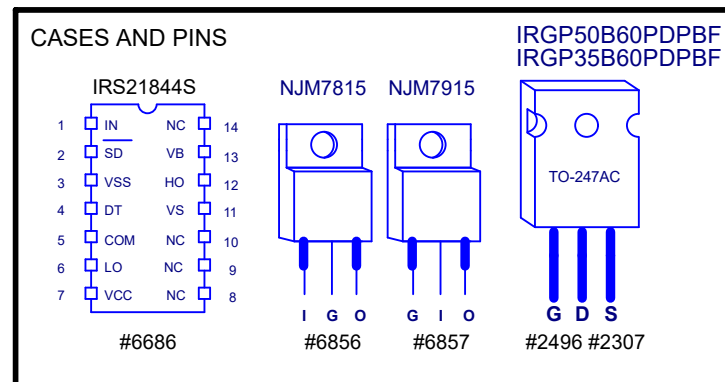
DESIGN HISTORY AND INFORMATION

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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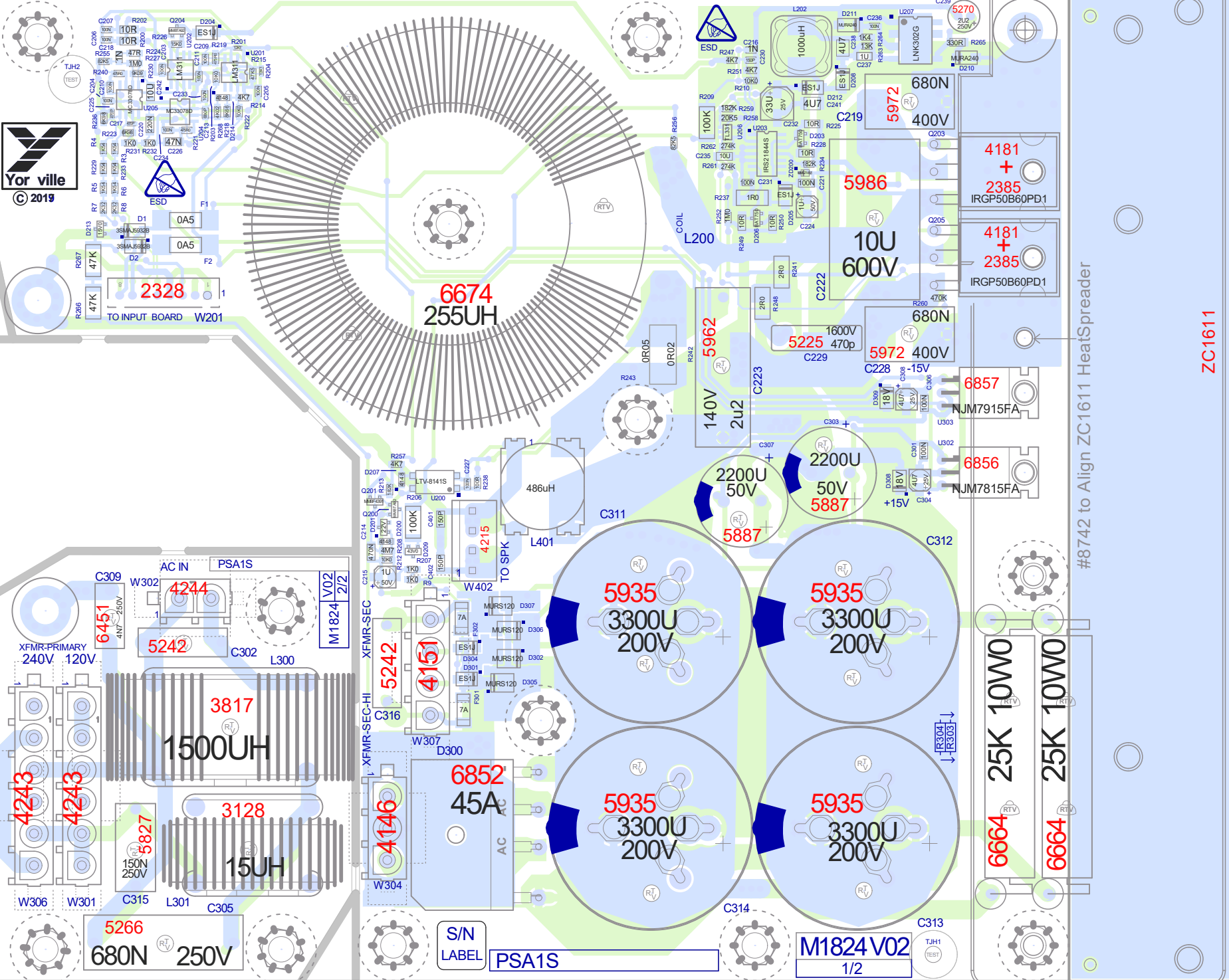
POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS



M1824-PSA1S

Blan Si e - 261mmX222mm (10276X8740)



Into Wave

#8835+
#8800

6674
255UH

680N
400V

4181
+
2385
IRGP50B60PD1

4181
+
2385
IRGP50B60PD1

5986
10U
600V

5225 1600V
470p

5972 400V

6857
NJM7915FA

6856
NJM7815FA

5962
140V
2u2

5887
2200U
50V

5887
2200U
50V

5935
3300U
200V

5935
3300U
200V

5935
3300U
200V

5935
3300U
200V

6664
25K 10W0

6664
25K 10W0

4244
AC IN

3817
1500UH

3128
15UH

6852
45A
AC

5266
680N 250V

S/N LABEL
PSA1S

M1824 V02
1/2

#8742 to Align ZC1611 HeatSpreader

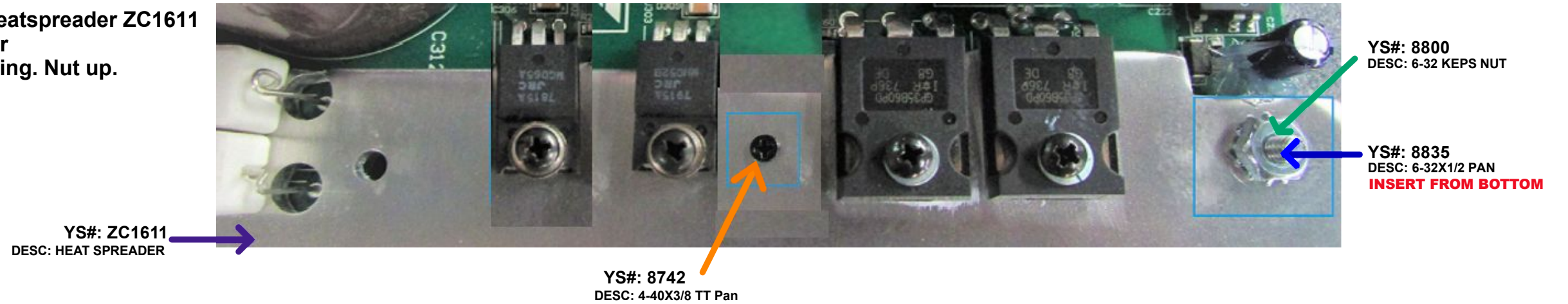
ZC1611

M1824 V02 PSA1S

PCB ASSEMBLY DOCUMENTATION

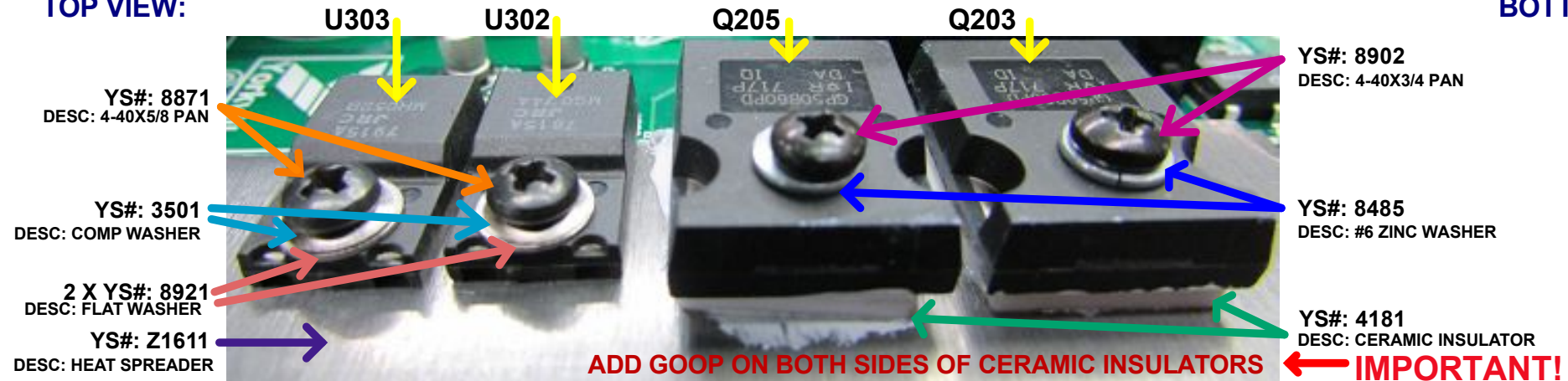
MOUNTING HARDWARE & INSTRUCTIONS FOR HEAT SPREADER ZC1611:

- 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.

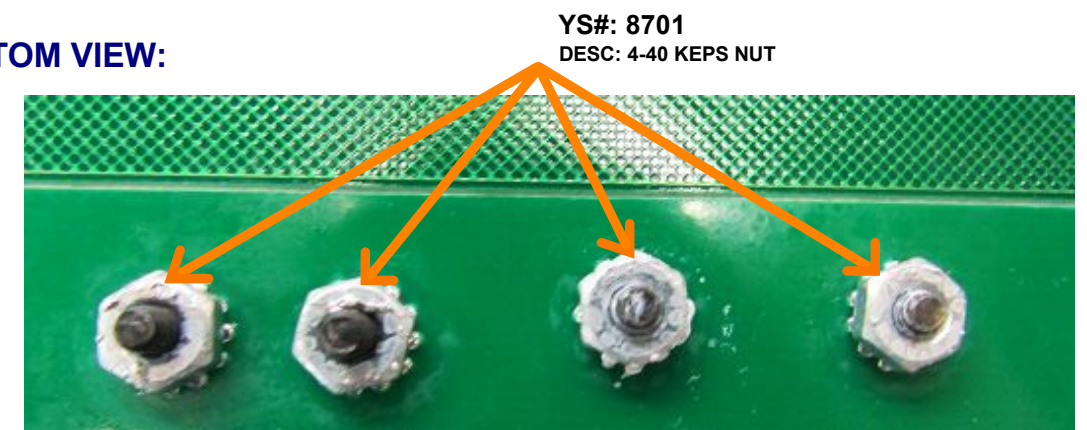


MOUNTING HARDWARE FOR U302/U303 AND Q203/Q205:

TOP VIEW:

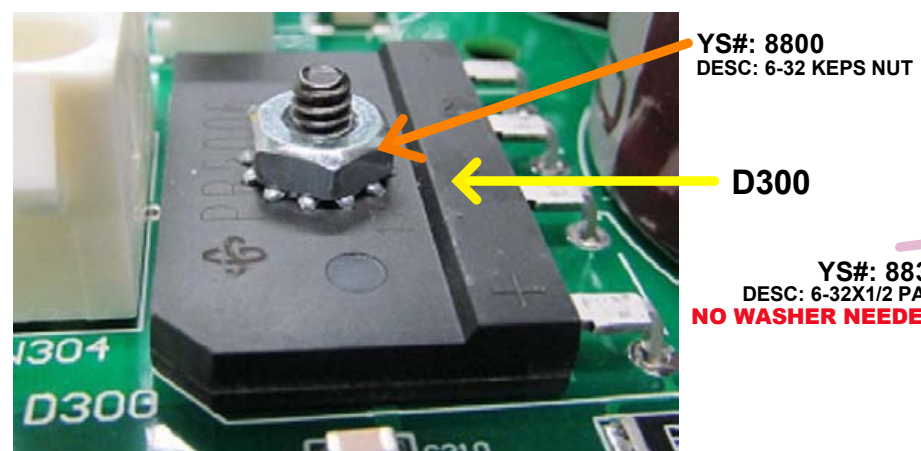


BOTTOM VIEW:

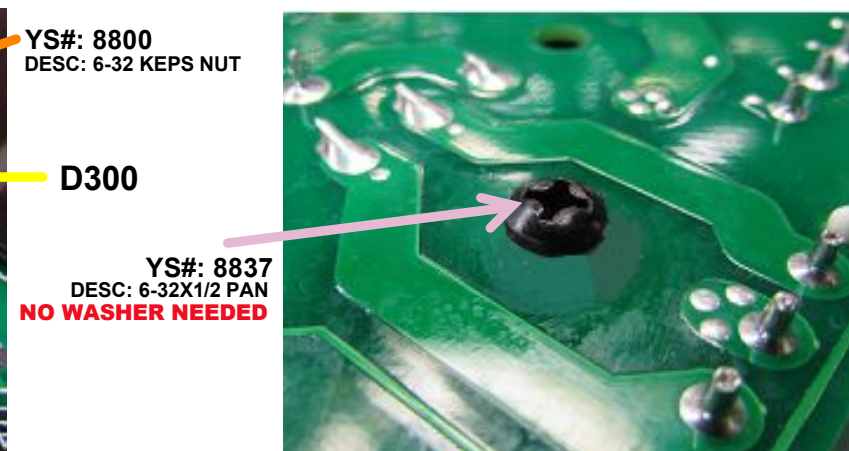


MOUNTING HARDWARE FOR D300:

TOP VIEW:



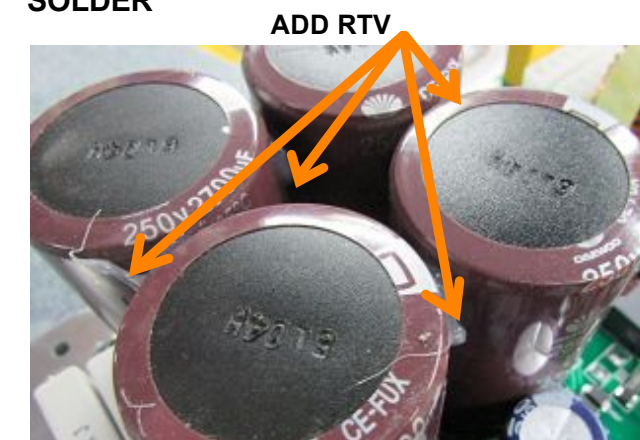
BOTTOM VIEW:



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)**

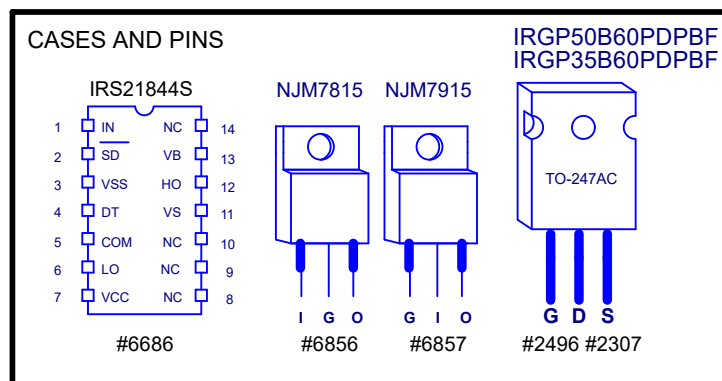
DESIGN HISTORY AND INFORMATION

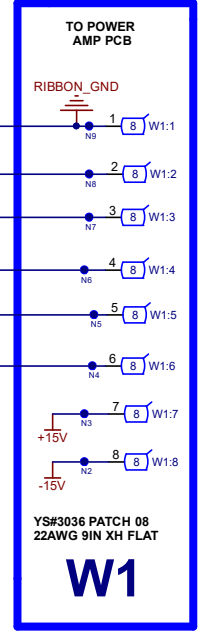
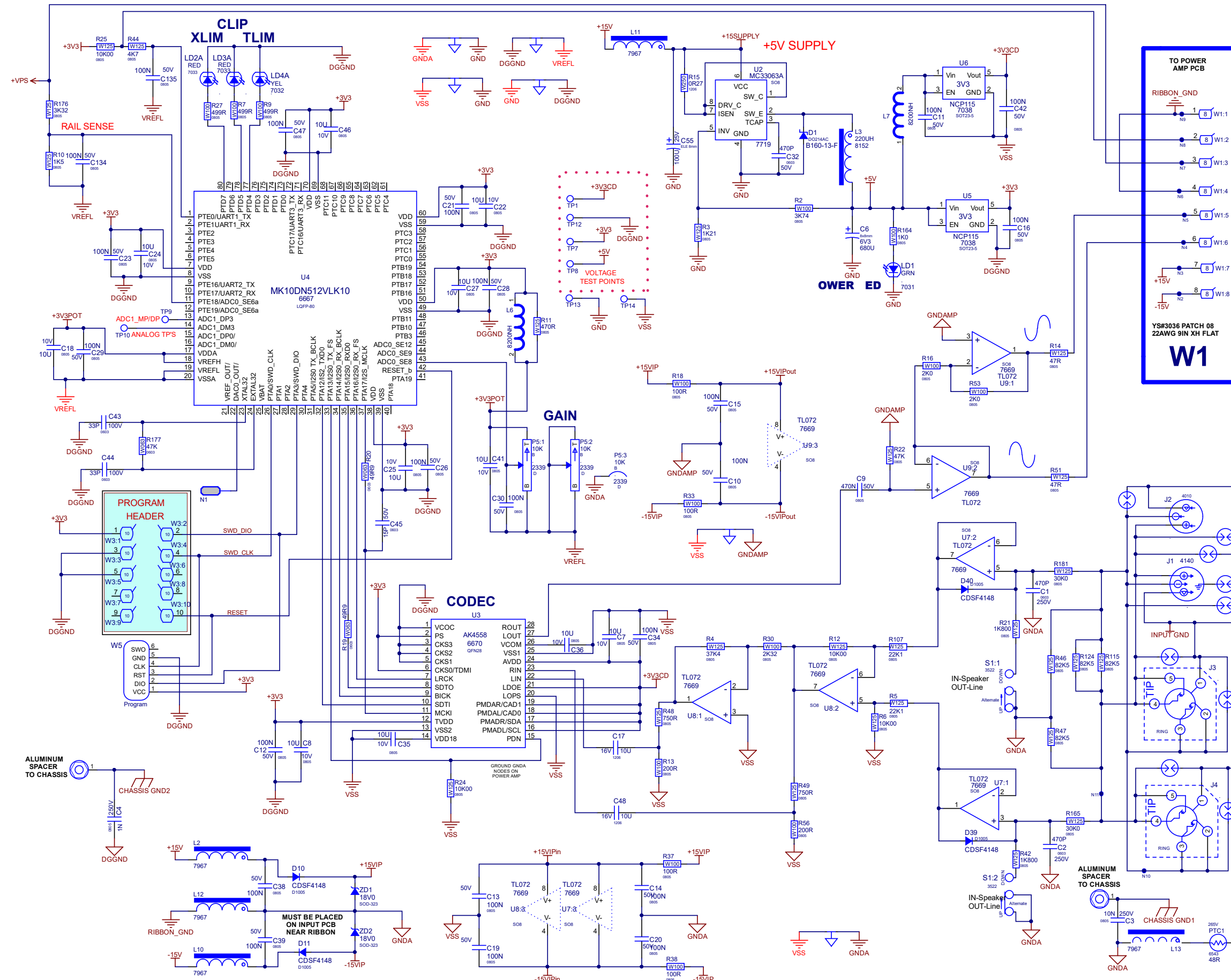
CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	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 #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





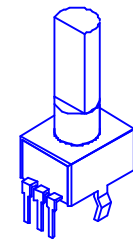
DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	14-MAR-2020	V01	.	RELEASE FOR PRODUCTION
2
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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#
P5	GAIN	2339	P34	8653C
S1	Speaker/Line Mode	3522	DPDT	8637
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STYLE P32

PINOUT DIAGRAMS

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



S/N LABEL

PROGRAMMED FOR
PS12S
PS15S
PS18S
PSA1S
PSA2S

TEST



ESD

TP9 TP10

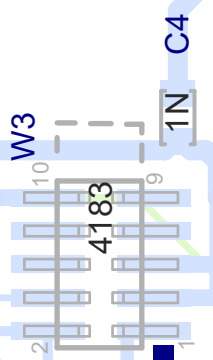


C27 C28 C30

C22 10U C21 100N

GND CODEC

U4 PROGRAM HEADER

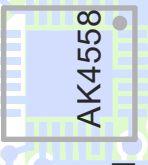


DGGND

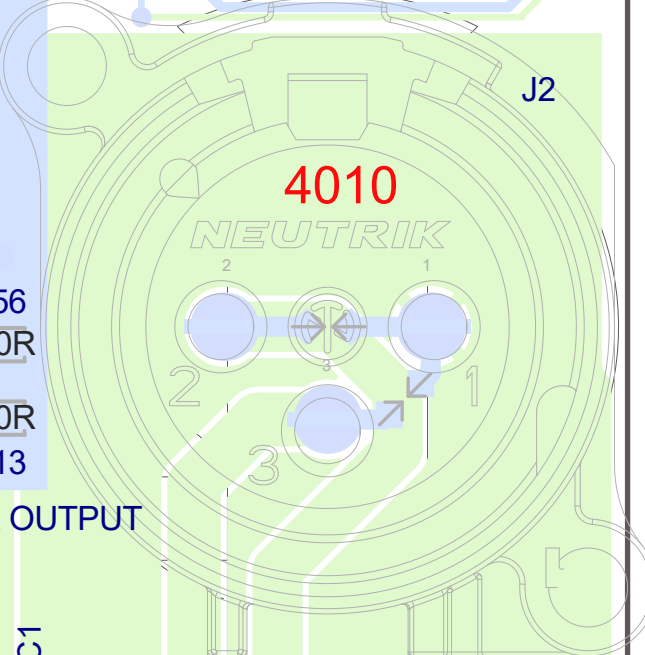
M1996V01



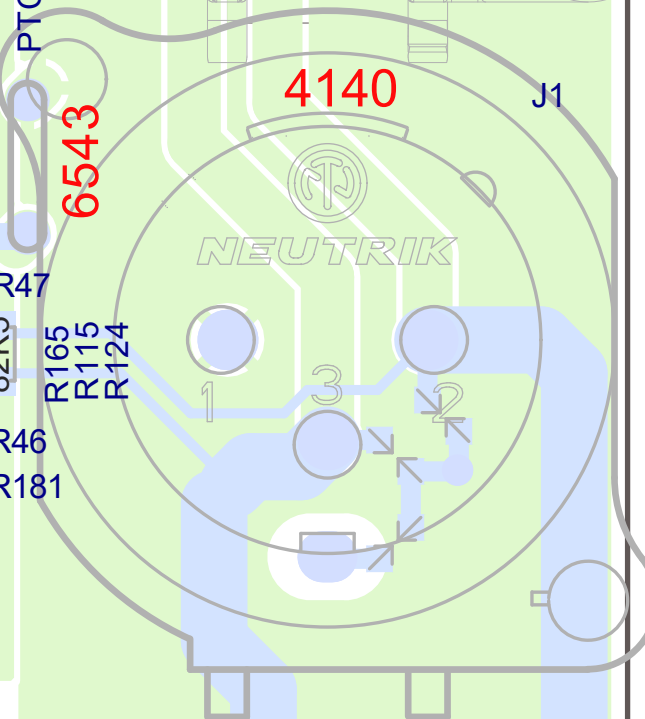
U4



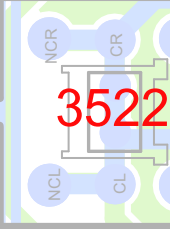
U3



4010



4140



3522

6543

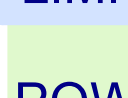
CLIP



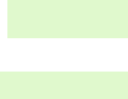
LD3A L7



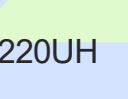
LD4A LD2A



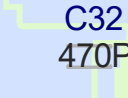
LIMIT



POWER



LD1



L3 C6



SUPPLY +5V



R2 3K74



R3 1K21



R15 C55

+3V3CODEC



+5V



+5V



GND



GND



GAIN



W1



2344



GNDAMP



R22 47K



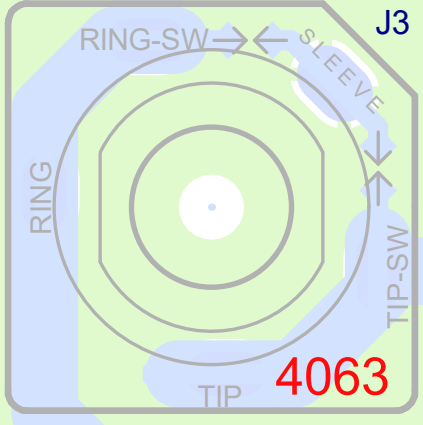
C10



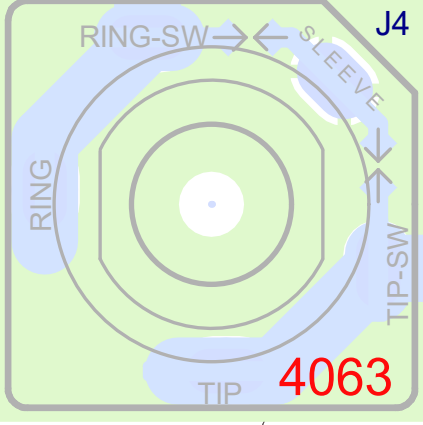
U9



R53



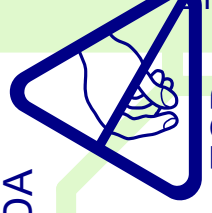
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ESD



2344



TO POWER AMP

TJH2

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. THIS BOARD IS FOR :

M1996 FOR PS12S

M1996 FOR PS15S

M1996 FOR PS18S

M1996 FOR PSA1S

M1996 FOR PSA2S

SEE MARKINGS TO IDENTIFY SOFTWARE VERSIONS

PCB HARDWARE

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



Section: Assembly Documentation			
Product(s): PS12S / PS15S / PS18S / PSA1S / PSA2S			
PCB#: M1996	Rev#: V01	EML Rev#: XX	Sheet 2 Of 3
Modified: 2020-11-05	File: Assembly.SchDoc	Tmp Date:	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

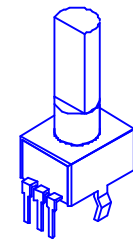
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POTENTIOMETERS AND KNOBS

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

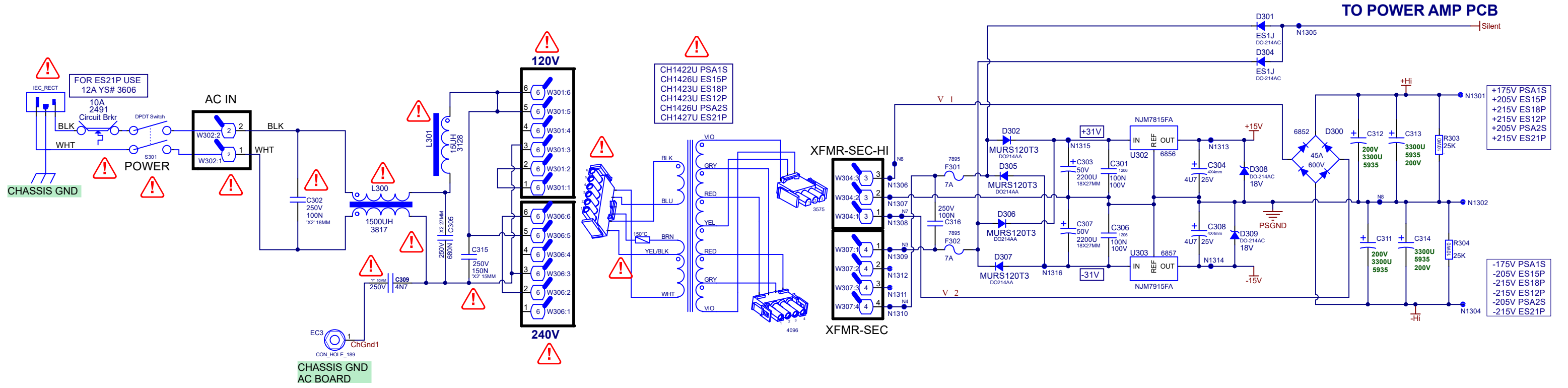
PINOUT DIAGRAMS

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): PS12S / PS15S / PS18S / PSA1S / PSA2S			
PCB#: M1996	Rev#: V01	EML Rev#: XX	Sheet 3 Of 3
Modified: 2020-11-05	File: History.SchDoc	Tmp Rev: V031	

POWER SUPPLY



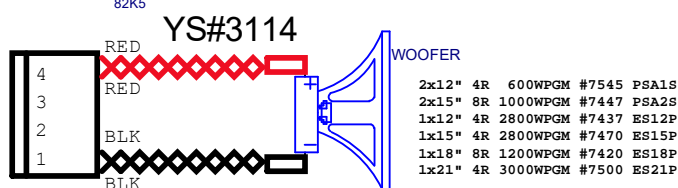
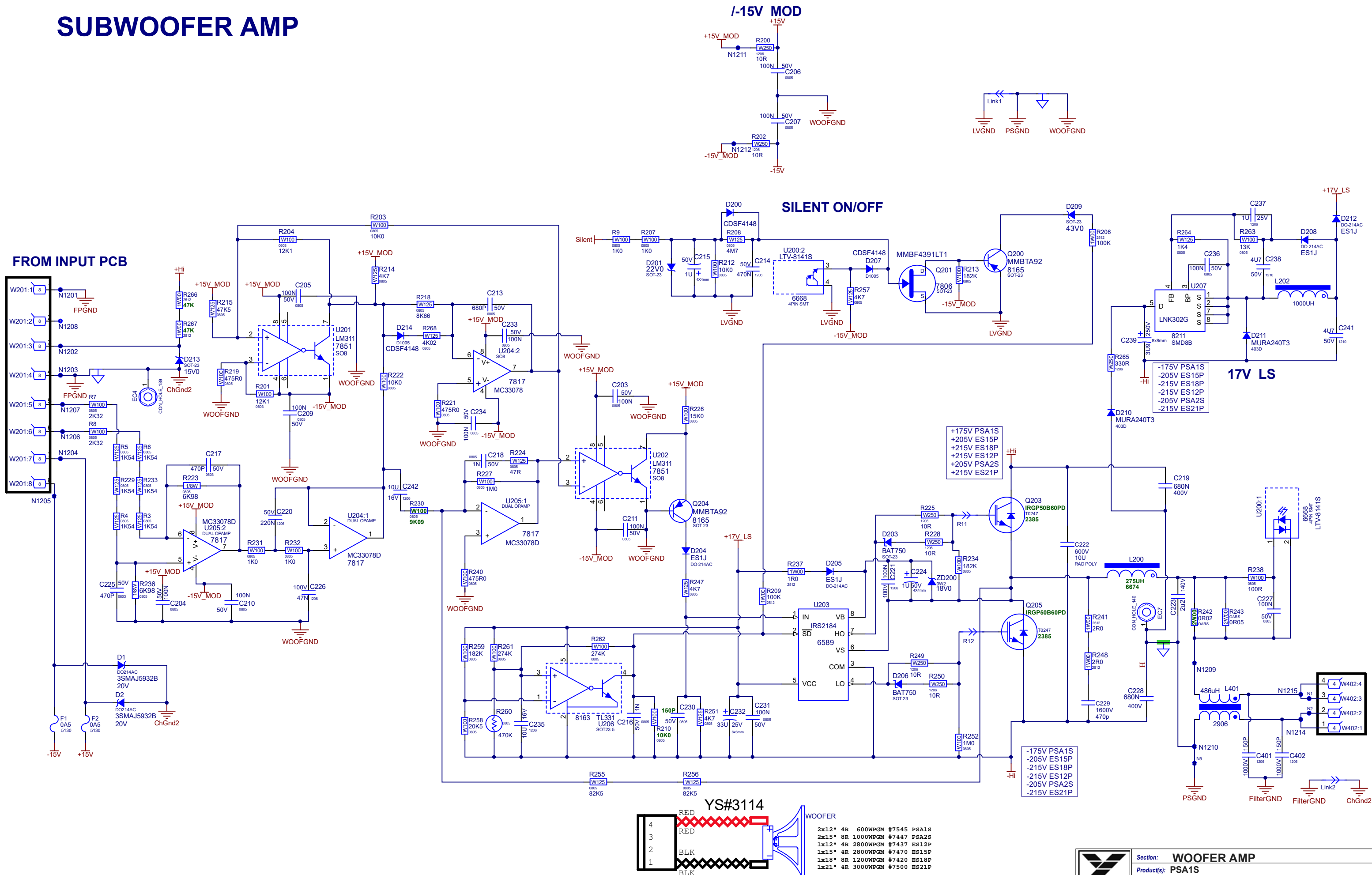
- CH1422U PSA1S
- CH1426U ES15P
- CH1423U ES18P
- CH1426U PSA2S
- CH1427U ES21P

- +175V PSA1S
- +205V ES15P
- +215V ES18P
- +215V ES12P
- +205V PSA2S
- +215V ES21P

- 175V PSA1S
- 205V ES15P
- 215V ES18P
- 215V ES12P
- 205V PSA2S
- 215V ES21P

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

SUBWOOFER AMP



DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

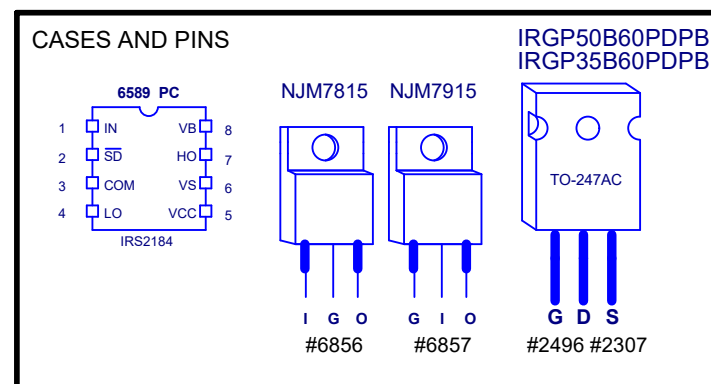
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POTENTIOMETERS AND KNOBS

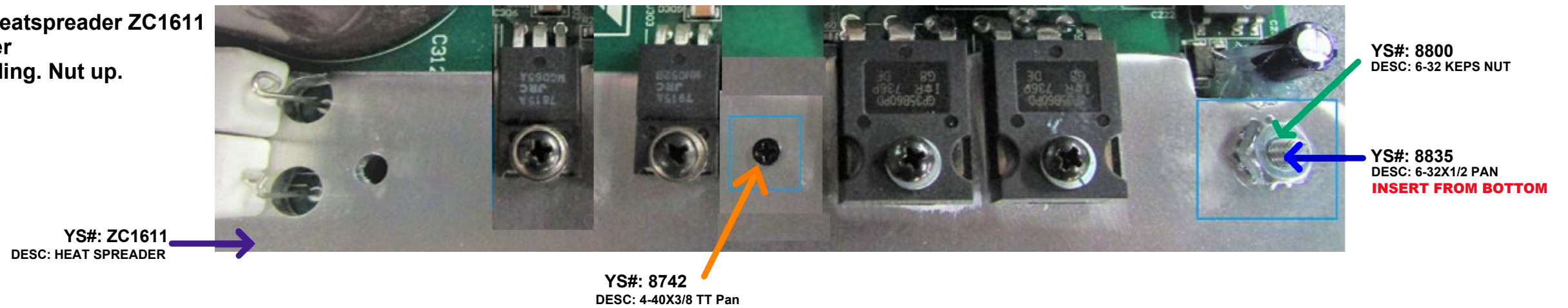
PINOUT DIAGRAMS



PCB ASSEMBLY DOCUMENTATION

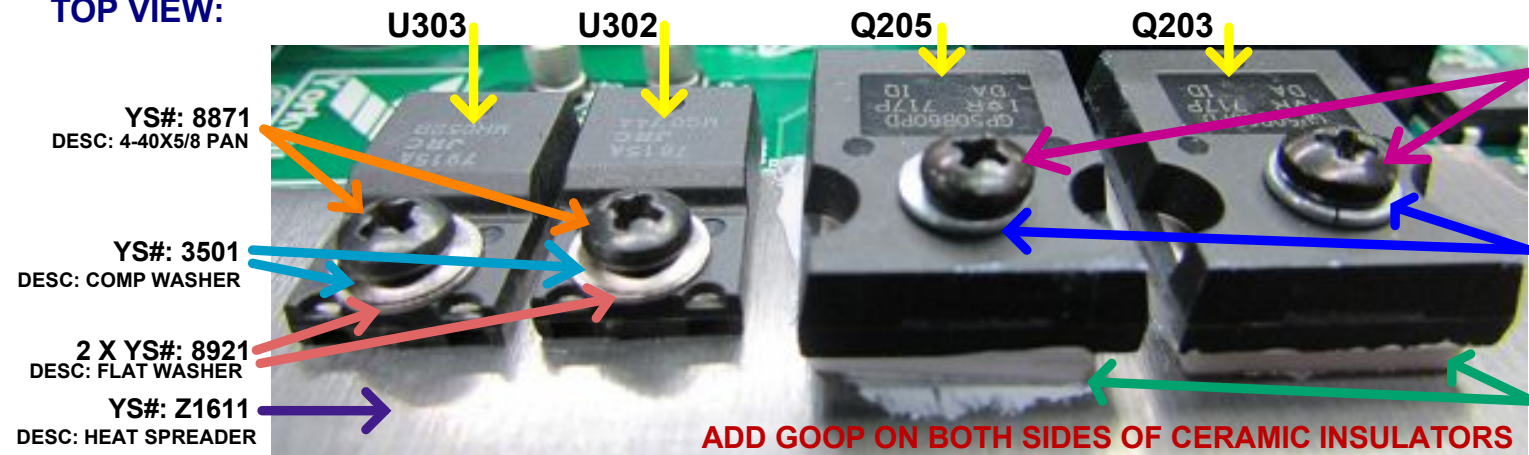
MOUNTING HARDWARE & INSTRUCTIONS FOR HEAT SPREADER ZC1611:

- 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.

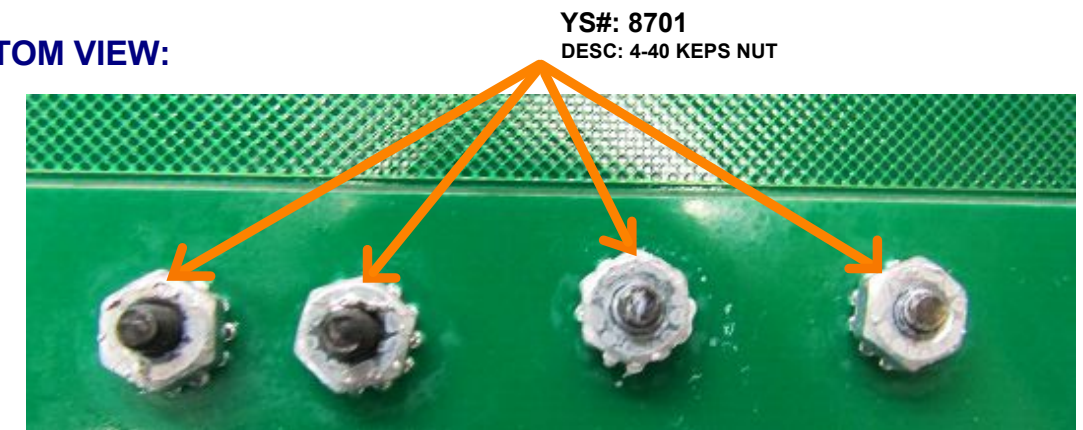


MOUNTING HARDWARE FOR U302/U303 AND Q203/Q205:

TOP VIEW:

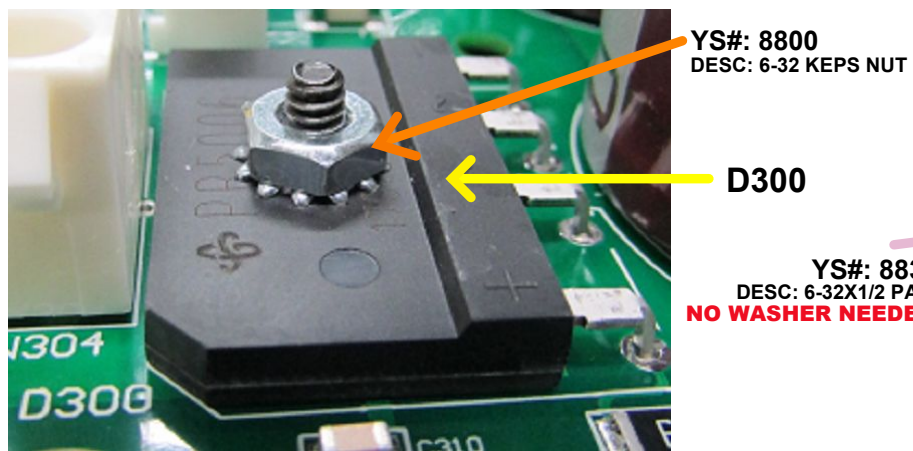


BOTTOM VIEW:

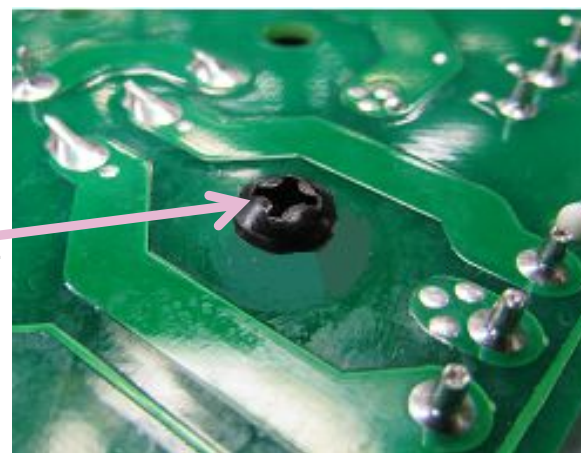


MOUNTING HARDWARE FOR D300:

TOP VIEW:



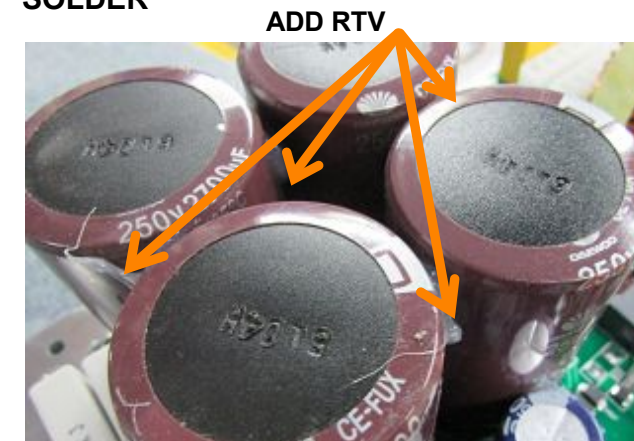
BOTTOM VIEW:



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

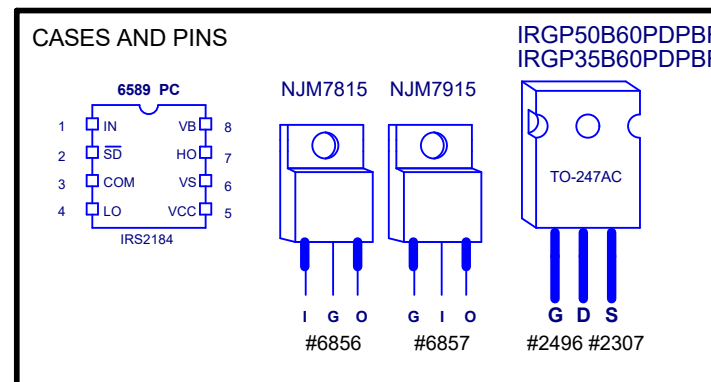
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POTENTIOMETERS AND KNOBS

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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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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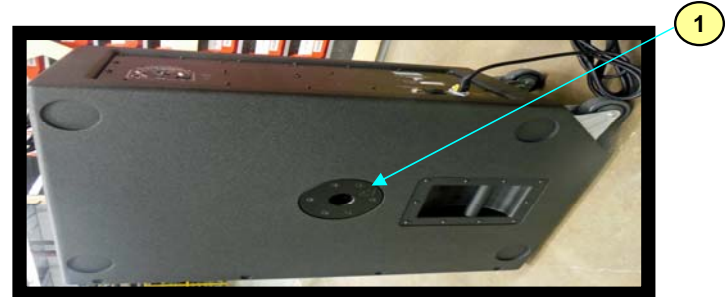
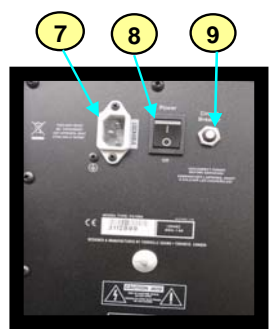
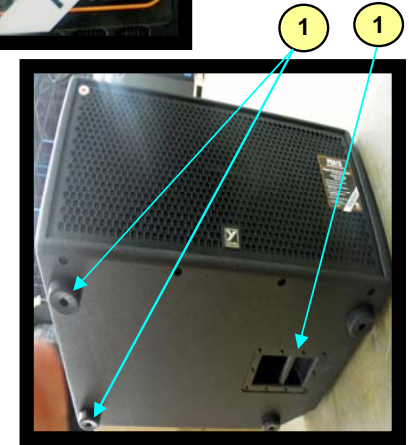
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14305 USA



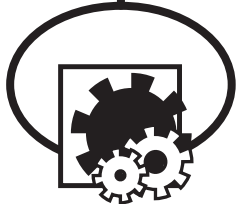
PSA1S

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.

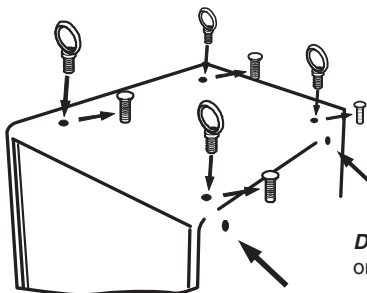
b) Place a drop of thread-lock adhesive on the threads of the eyebolt and insert one into exposed hole. Tighten each eyebolt by hand until its fits snugly against the cabinet. Further tighten each eyebolt by rotating it another half turn. Be sure to insert eyebolts in the threaded hole directly in-line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

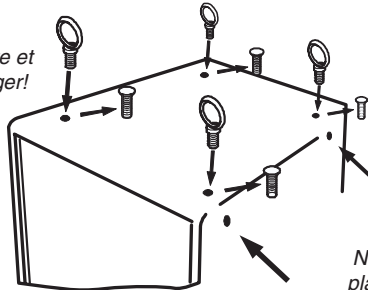
Assurez-vous d'insérer les boulons à œil dans les trous filetés directement en ligne avec le câble de suspension. Toujours suivre les instructions d'installation et d'utilisation du fabricant des boulons à œil.



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
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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.

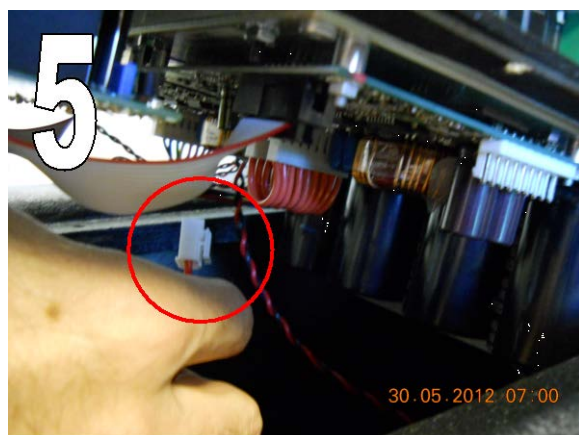
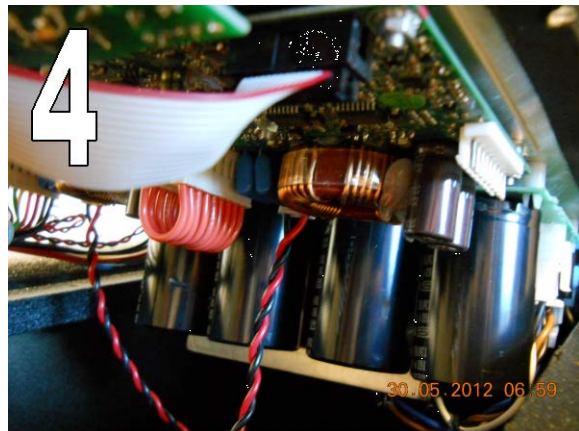


IMPORTANT!! RAILS DE MONTAGE (TRACK RAILINGS): LES ENCEINTES INCORPORANT LE SYSTÈME DE RAIL DE MONTAGE ONT LES MÊMES LIMITES DE CHARGE DE TRAVAIL QU'ILS SOIENT SUSPENDUS AVEC LE SYSTÈME DE RAIL OU AVEC LES BOULONS À OEIL. CES VALEURS ASSIGNÉES DE LIMITE DE CHARGE PEUVENT ÊTRE LIMITÉS ET BASÉS SUR LA 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.

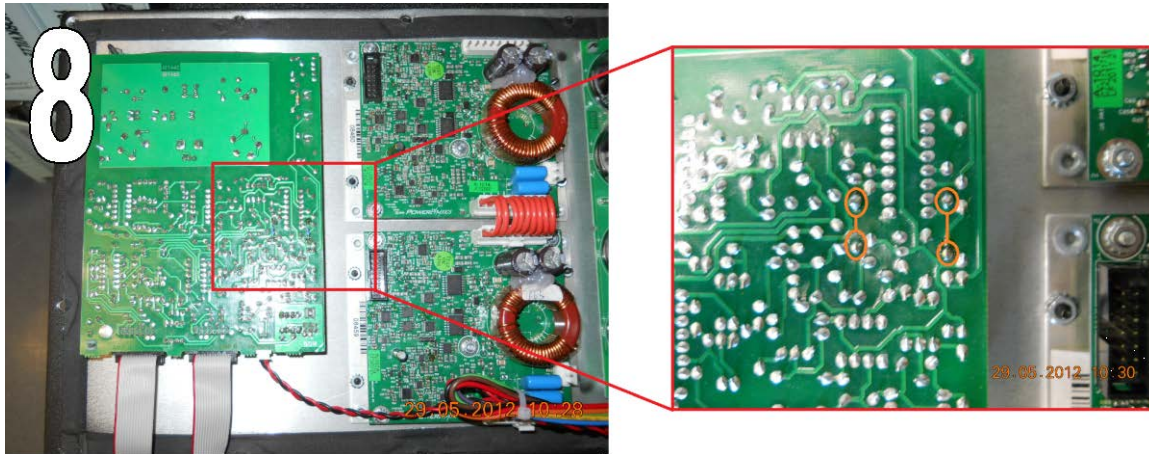
1. Lay down the PSA1s with the grille-side down.
2. Remove the 18 black bolts that are along the perimeter of the metal chassis on the back.
3. To remove the chassis, use a flathead screwdriver (or other similar prying device) and pry up the chassis from the side with the XLR jacks.
4. Carefully tilt 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.

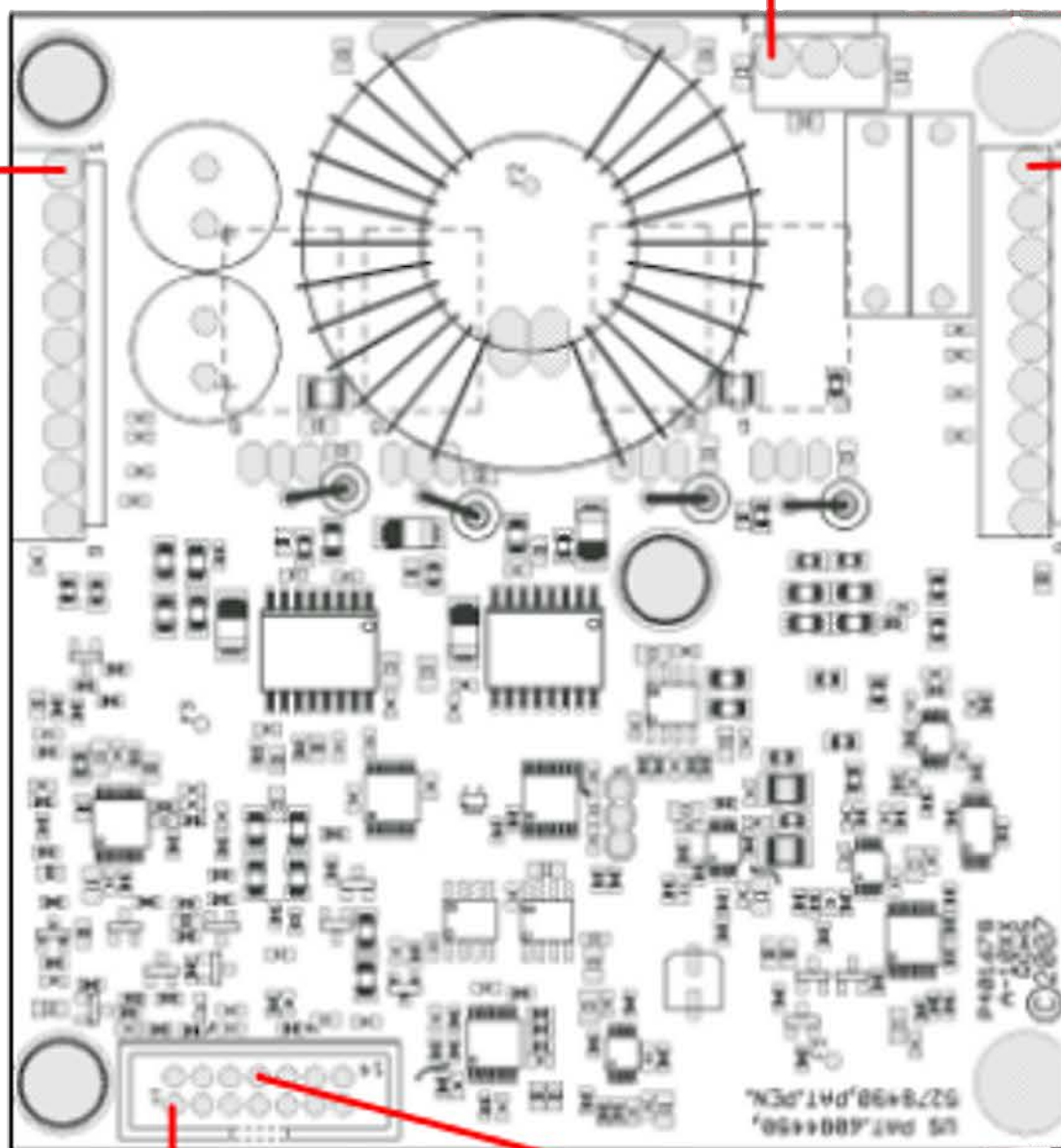
A-1214 Power Amplifier YS#9702

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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