



WEB: [www.yorkville.com](http://www.yorkville.com)

#### **WORLD HEADQUARTERS**

##### **CANADA**

###### **Yorkville Sound Limited**

550 Granite Court  
Pickering, Ontario  
L1W 3Y8 CANADA

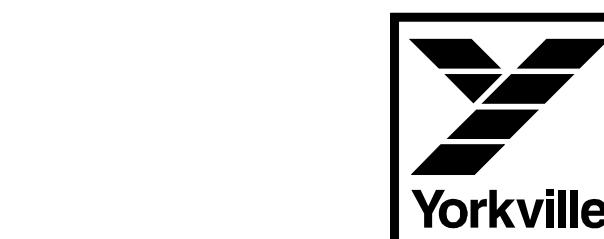
Voice: 905-837-8481  
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##### **U.S.A.**

###### **Yorkville Sound Inc.**

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

Voice: 716-297-2920  
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## ***SERVICE MANUAL***

***AP4K REV1***  
***AP4K 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

## IMPORTANT SAFETY INSTRUCTIONS



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

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

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

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



SEPARATE  
COLLECTION  
WEEE



CAUTION: HOT SURFACE  
ATTENTION: SURFACE CHAUE



DO NOT  
PUSH OR PULL



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

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

### FOLLOW ALL INSTRUCTIONS

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

**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).**

**NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE**

**PERSONNEL. THIS DEVICE IS FOR INDOOR USE ONLY!**

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

### SUIVEZ TOUTES LES INSTRUCTIONS

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

**AVIS: AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE) NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR.**

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

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

Clean only with dry cloth.

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

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

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

#### Power Sources

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

#### Hazards

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and/or serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. Only use attachments/accessories specified by the manufacturer. Note: Prolonged use of headphones at a high volume may cause health damage on your ears.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

Ensure that proper ventilation is provided around the appliance. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

#### Power Cord

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

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

#### Service

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

## IMPORTANT SAFETY INSTRUCTIONS



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



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

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water.

6. Clean only with dry cloth.

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

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

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

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

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

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

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

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

#### WARNING:

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

• To completely disconnect this apparatus from the ac mains, disconnect the power supply cord plug from the ac receptacle.

• The mains plug of the power supply cord or appliance coupler shall remain readily accessible.



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



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

1. Lisez ces instructions.

2. Conservez ces instructions.

3. Respectez tous les avertissements.

4. Suivez toutes les instructions.

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

6. Nettoyez uniquement avec chiffon sec.

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

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

11. Utilisez uniquement les accessoires spécifiés par le fabricant.

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

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

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

#### AVERTISSEMENT:

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

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

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



#### CAUTION

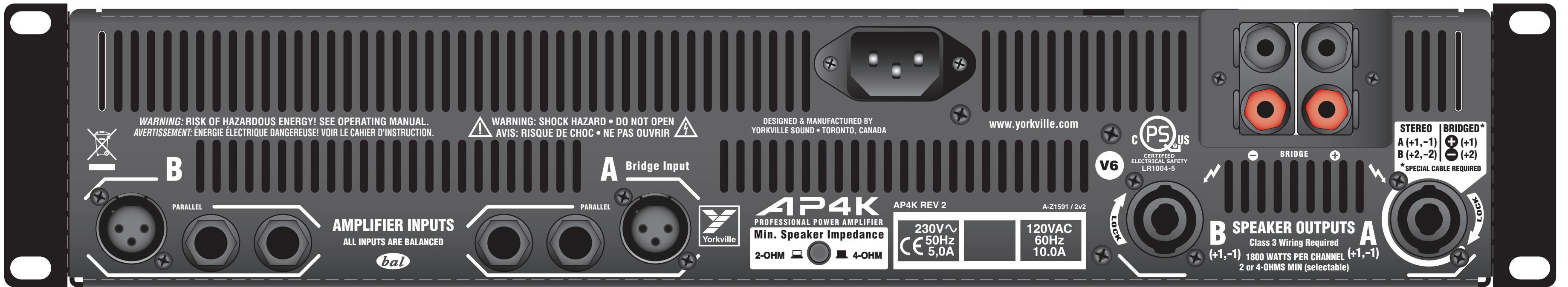
TO PREVENT ELECTRIC SHOCK HAZARD,  
DO NOT CONNECT TO MAINS POWER SUPPLY  
WHILE GRILLE IS REMOVED.



#### AVIS

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









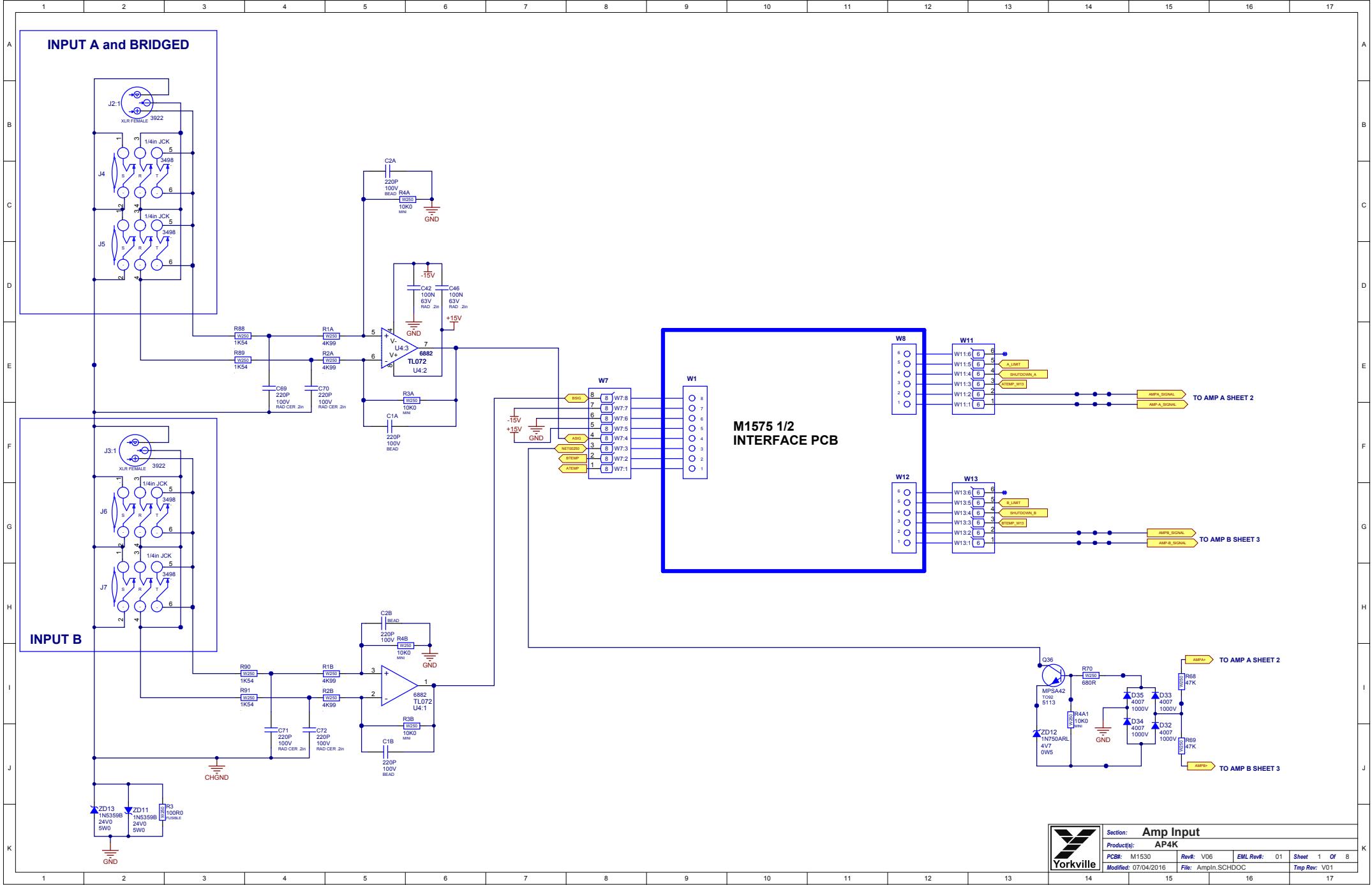


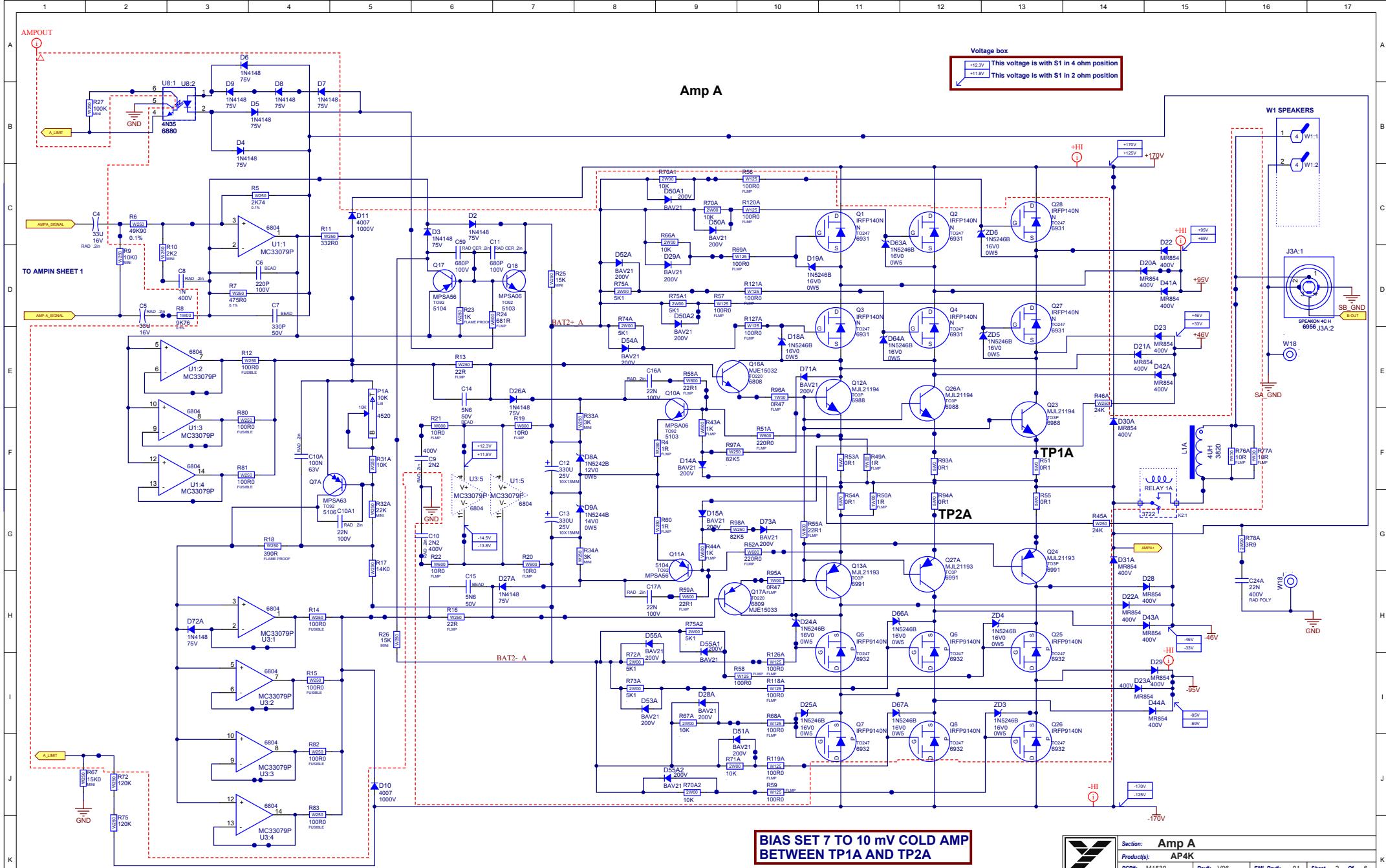




**M1686 Parts Reference List 8/14/2018**

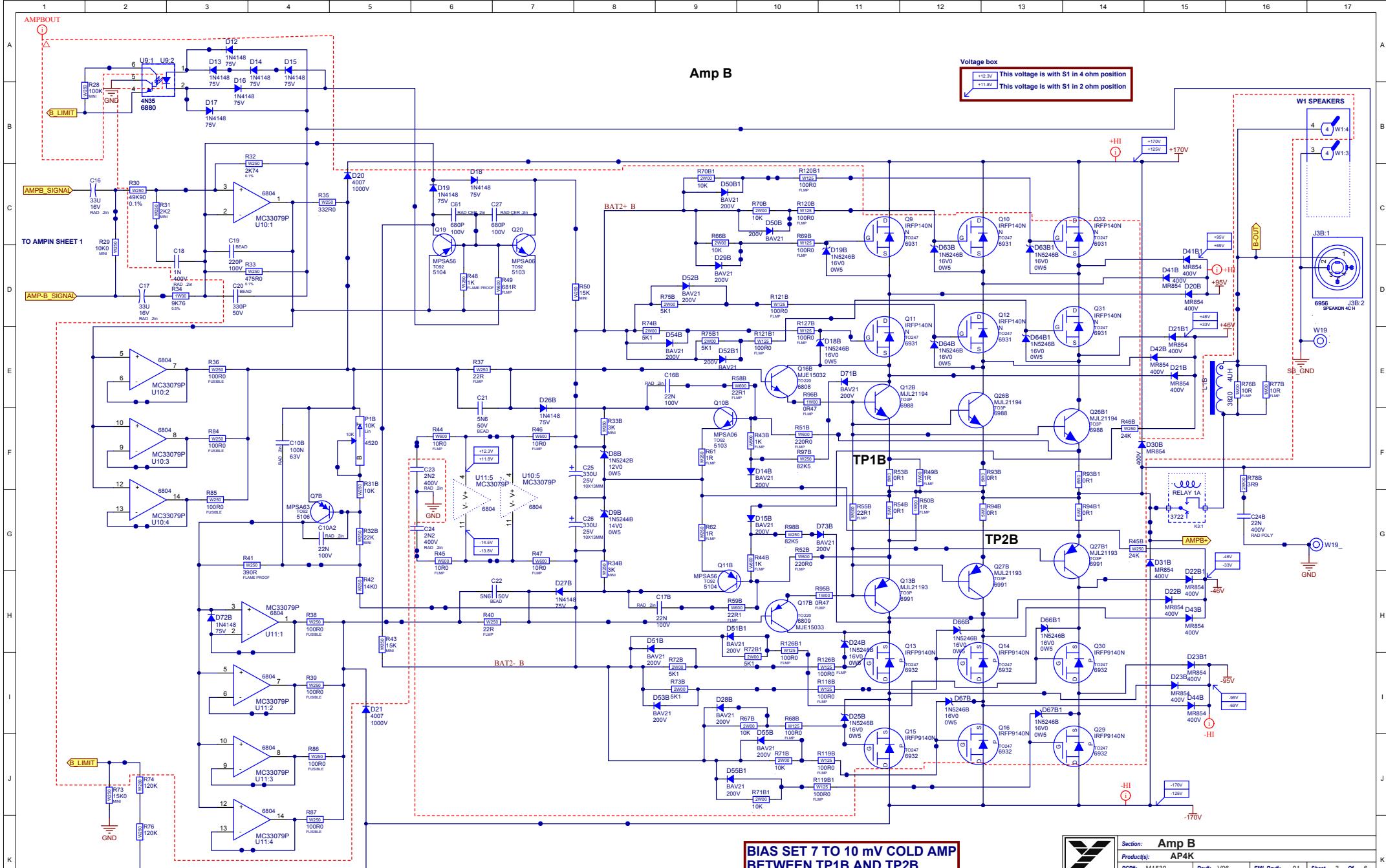
REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M1686-59	AM6CE/AP4K OUTPUT MODULE	R21	4745	5W0 0R1 5% BLK RES			
C2	5254	_1U 63V 20%CAP T&R 4X7MM .2EL	R22		W100 20K0 1% 0805 SMT RES			
C4	5267	100U 25V 20%CAP T&R RAD .2EL	R23		W125 68K 5% 0805 SMT RES			
C5	5267	100U 25V 20%CAP T&R RAD .2EL	R25		W125 10R0 1% 0805 SMT RES			
C6	5961	_33U 16V 20%CAP T&R RAD .2IN NP	R26		W100 221R 1% 0805 SMT RES			
C7	5961	_33U 16V 20%CAP T&R RAD .2IN NP	R27		_10K 5% THERMISTOR NTC 0805 SMT			
C8	5208	_2N2 400V 5%CAP T&R RAD .2FLM	R28		W125 47R 5% 0805 SMT RES			
C9	5208	_2N2 400V 5%CAP T&R RAD .2FLM	R31		W125 10R0 1% 0805 SMT RES			
C10		_1N 50V 5%CAP 0805 SMT NPO	R32		1W00 10K 5% 2512 SMT RES			
C11		_27P 50V 5%CAP 0805 SMT NPO	R33		W125 47R 5% 0805 SMT RES			
C12		180P 50V 5%CAP 0805 SMT NPO	R34		1W00 47K 5% 2512 SMT RES			
C13		_22N 50V 10%CAP 0805 SMT X7R	R35		1W00 47K 5% 2512 SMT RES			
C14		_22N 50V 10%CAP 0805 SMT X7R	R36		1W00 47K 5% 2512 SMT RES			
C15		100N 50V 5%CAP 0805 SMT X7R	R37		W100 100R 1% 0805 SMT RES			
C16		_10N 50V 10%CAP 0805 SMT X7R	R38		W125 47R 5% 0805 SMT RES			
C17		220N 50V 10%CAP 1206 SMT X7R	R39		W125 150K 5% 0805 SMT RES			
D1		BAS21L 250V 200MA SOT23 SMT	R40		W125 150K 5% 0805 SMT RES			
D2	6934	MR854 400V 3A0 DIODE FASREC	R42		W125 68K 5% 0805 SMT RES			
D3		BAS21L 250V 200MA SOT23 SMT	R43		W125 68K 5% 0805 SMT RES			
D4	6934	MR854 400V 3A0 DIODE FASREC	R44		W125 47R 5% 0805 SMT RES			
D5		ES1H 500V 1A0 D214 UPGT 8814	R45		W125 0R 5% 0805 SMT RES			
D6		BAS21L 250V 200MA SOT23 SMT	R46		W100 15K0 1% 0805 SMT RES			
D7		BAS21L 250V 200MA SOT23 SMT	R47		W333 33R 5% 1210 SMT RES			
D8		BAS21L 250V 200MA SOT23 SMT	R48		W333 33R 5% 1210 SMT RES			
D9		BAS21L 250V 200MA SOT23 SMT	R49		W125 10R0 1% 0805 SMT RES			
D10		BAS21L 250V 200MA SOT23 SMT	R50		W125 10R0 1% 0805 SMT RES			
D11		ES1H 500V 1A0 D214 UPGT 8814	R51		W100 10K0 1% 0805 SMT RES			
D12		BAS21L 250V 200MA SOT23 SMT	R52		W125 2K2 5% 0805 SMT RES			
D13	6934	MR854 400V 3A0 DIODE FASREC	R53		W125 18K00 0.1% 0805 SMT RES			
D14		BAS21L 250V 200MA SOT23 SMT	R54		W125 18K00 0.1% 0805 SMT RES			
D15	6934	MR854 400V 3A0 DIODE FASREC	R55		W100 100R 1% 0805 SMT RES			
D16		BAS21L 250V 200MA SOT23 SMT	R56		W125 220K 5% 0805 SMT RES			
D17		MMSZ46BLT1 16V0 0W35 5% SMT ZEN	R57		W125 1K02 0.1% 0805 SMT RES			
D18		MM3Z15VT1G 15V0 0W2 5% SMT ZEN	R58		W125 1K02 0.1% 0805 SMT RES			
D19		MM3Z15VT1G 15V0 0W2 5% SMT ZEN	R59		W125 47R 5% 0805 SMT RES			
D20		MMSZ46BLT1 16V0 0W35 5% SMT ZEN	R60		W125 18K00 0.1% 0805 SMT RES			
D21		CDSF4148 75V 0A15 1005 SMT	R61		W125 18K00 0.1% 0805 SMT RES			
D23		BAS21L 250V 200MA SOT23 SMT	R62		W125 18K00 0.1% 0805 SMT RES			
D24		BAS21L 250V 200MA SOT23 SMT	R63		W125 18K00 0.1% 0805 SMT RES			
D25		CDSF4148 75V 0A15 1005 SMT	R64		W125 18K00 0.1% 0805 SMT RES			
D26		CDSF4148 75V 0A15 1005 SMT	R65		W125 18K00 0.1% 0805 SMT RES			
D27		CDSF4148 75V 0A15 1005 SMT	R66		W250 22R 5% 1206 SMT RES			
D28		CDSF4148 75V 0A15 1005 SMT	R67		W250 22R 5% 1206 SMT RES			
D29		CDSF4148 75V 0A15 1005 SMT	R68		W100 7K50 1% 0805 SMT RES			
LD1		RED LED 1V9 20MA 1206 SMT	R69		W125 20K 5% 0805 SMT RES			
P1	4526	_10K TRIM POT 6MM TOP ADJ RAD	R70		W125 20K 5% 0805 SMT RES			
PCB	M1686BLANK	_2_OZ 2SD 93.28 SQIN 6PER AM6CE	R71		W125 20K 5% 0805 SMT RES			
Q1	6968	IRFP140PBF TO247 NCH MFET	R72		W125 20K 5% 0805 SMT RES			
Q2	6968	IRFP140PBF TO247 NCH MFET	TP3		TEST POINT MINIATURE SMT			
Q3	6808	MJE15032 TO220 NPN TRAN TE	TP4		TEST POINT MINIATURE SMT			
Q4	7008	MJL4281AG TO264 NPN TRAN	U1		MC33079D QUAD OPAMP SMT SO14			
Q5		MMBT3904 NPN SOT-23 SMT	W1	2328	8 CIR XH-HEADER 0.098IN			
Q6		MMBT64LT1G PNP DARL SOT-23 SMT	W2	3903	4 CIR PCB CONN BOTTOM .156			
Q7		MMBT3906LT1 PNP SOT-23 SMT & R	W3	3304	6 CIR PCB CONN BOTTOM .156			
Q8	7009	MJL4302AG TO264 PNP TRAN	ZD1		MMSZ46BLT1 16V0 0W35 5% SMT ZEN			
Q9	6809	MJE15033 TO220 PNP TRAN TE	ZD2		MMSZ46BLT1 16V0 0W35 5% SMT ZEN			
Q10	6969	IRFP9140PBF TO247 PCH MFET	ZD3		MMSZ46BLT1 16V0 0W35 5% SMT ZEN			
Q11	6969	IRFP9140PBF TO247 PCH MFET	ZD4		MMSZ46BLT1 16V0 0W35 5% SMT ZEN			
Q12		MJD340 NPN DPAK3 SMT TR						
Q13		MJD350 NPN DPAK3 SMT TR						
R1		1W00 47K 5% 2512 SMT RES						
R2		W100 100R 1% 0805 SMT RES						
R3		1W00 47K 5% 2512 SMT RES						
R4		1W00 47K 5% 2512 SMT RES						
R5		W100 100R 1% 0805 SMT RES						
R6		1W00 10K 5% 2512 SMT RES						
R7		W100 100R 1% 0805 SMT RES						
R8		W100 1K0 1% 0805 SMT RES						
R9		W100 1K0 1% 0805 SMT RES						
R10		W125 10R0 1% 0805 SMT RES						
R11		W125 47R 5% 0805 SMT RES						
R12		W125 10R0 1% 0805 SMT RES						
R13		W100 221R 1% 0805 SMT RES						
R14		W125 10R0 1% 0805 SMT RES						
R15		W125 68K 5% 0805 SMT RES						
R16		W100 10K0 1% 0805 SMT RES						
R17	4745	5W0 0R1 5% BLK RES						
R18		W125 33K 5% 0805 SMT RES						
R19		W125 11K0 1% 0805 SMT RES						
R20		W125 33K 5% 0805 SMT RES						

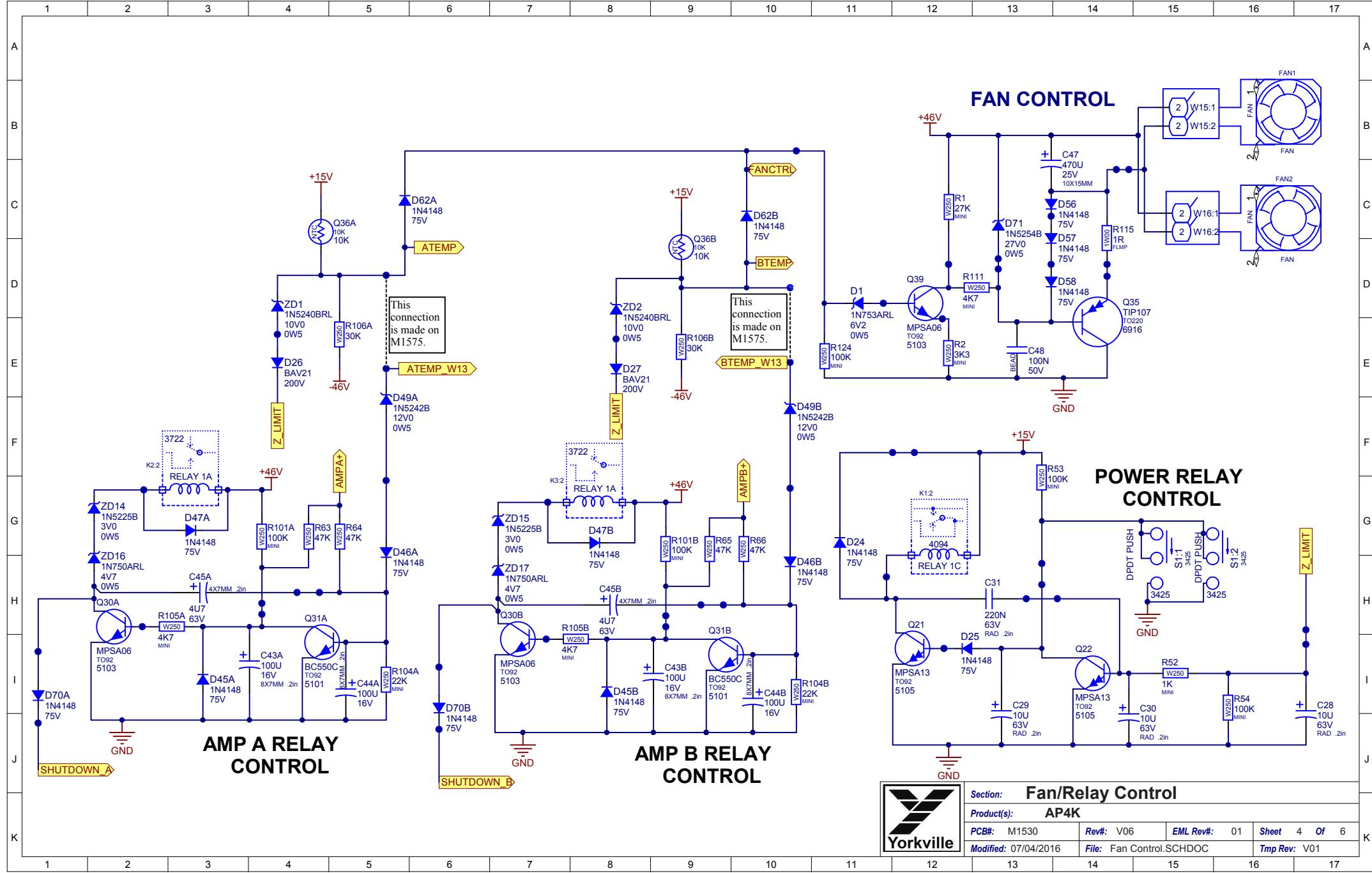


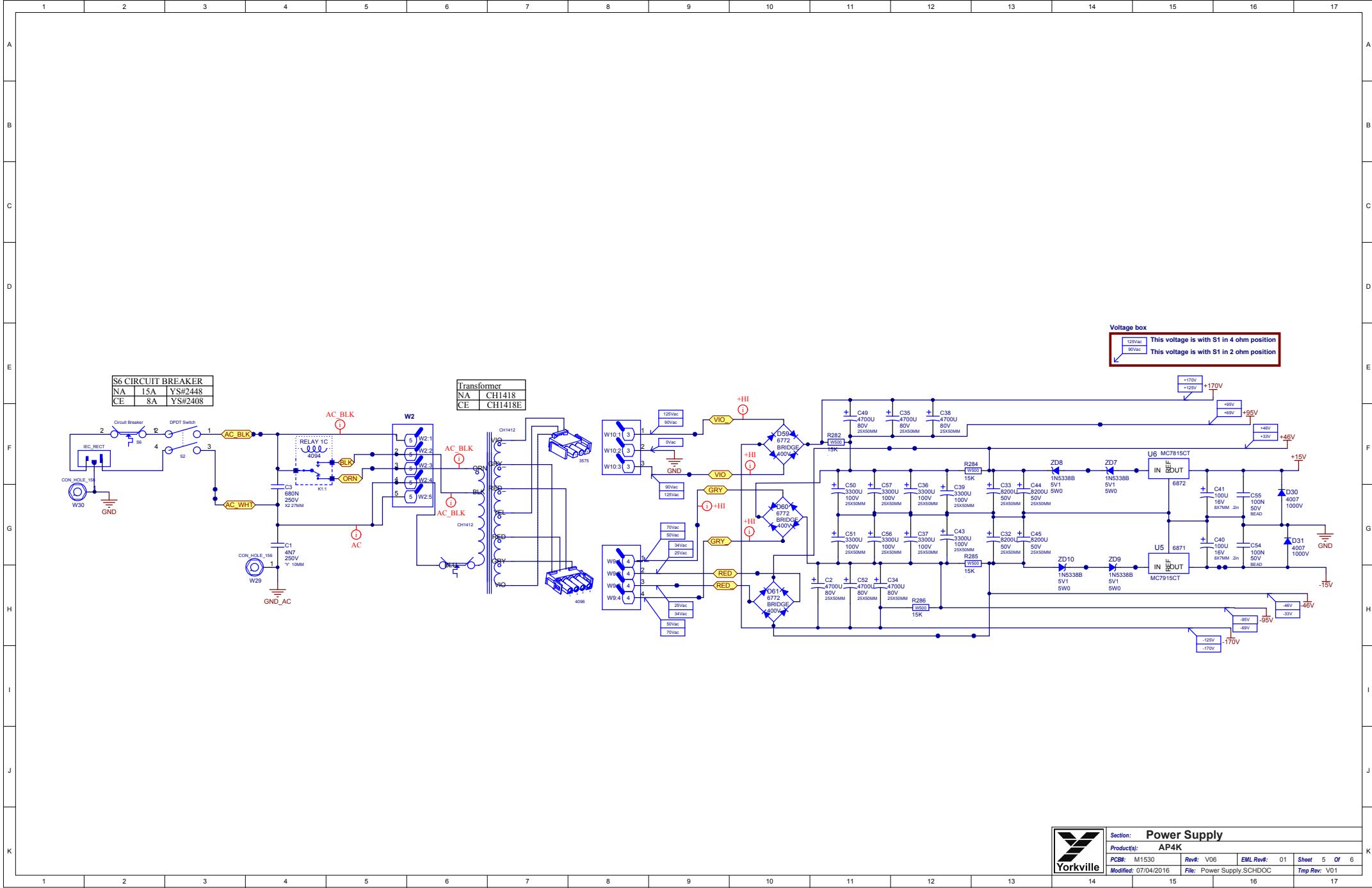


Section: Amp A  
Product(s): AP4K  
PCB#: M1530 Rev#: V06 EML Rev#: 01 Sheet 2 Of 6  
Modified: 07/04/2016 File: Channel A.SCHDOC  
Temp Rev: V01









# DESIGN HISTORY AND INFORMATION

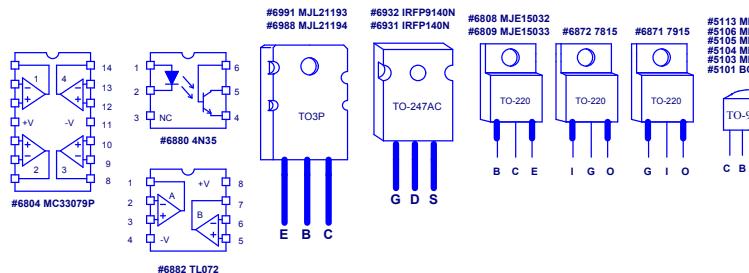
## CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	22-Mar-13	V01	.	RELEASED
2	20-Jun-13	V02	8753	MINOR CHANGES FOR PRE PRODUCTION RUN
3	10-Dec-13	V03	8598:	Add 4 pin connector #4151 for output. GG
4	27-Mar-14	V04	8630	Add a hole for a support brace. GG
5	15-Dec-14	.	8701	Change R72 and R74 with 2X120K resistor#4851
6	.	.	8734	Tack on #6438(1N4007)diode to C54 and C55.
7	24-Feb-15	V05	8760	via holes moved near J3A
8	.	.	8703	R63-R66, and ZD14-ZD17 added to relay control
9	.	.	.	PC#8701 and PC#8734 Implemented on Board.
10	09-APR-2015	.	8767	PC#8767;R101A and R101B changed from 220K to 100K (YS#6120).
11	07-Jul-2015	V06	8768	Add bottom solder mask on #3820 GG
12	.	.	.	Move W9 away from K2
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
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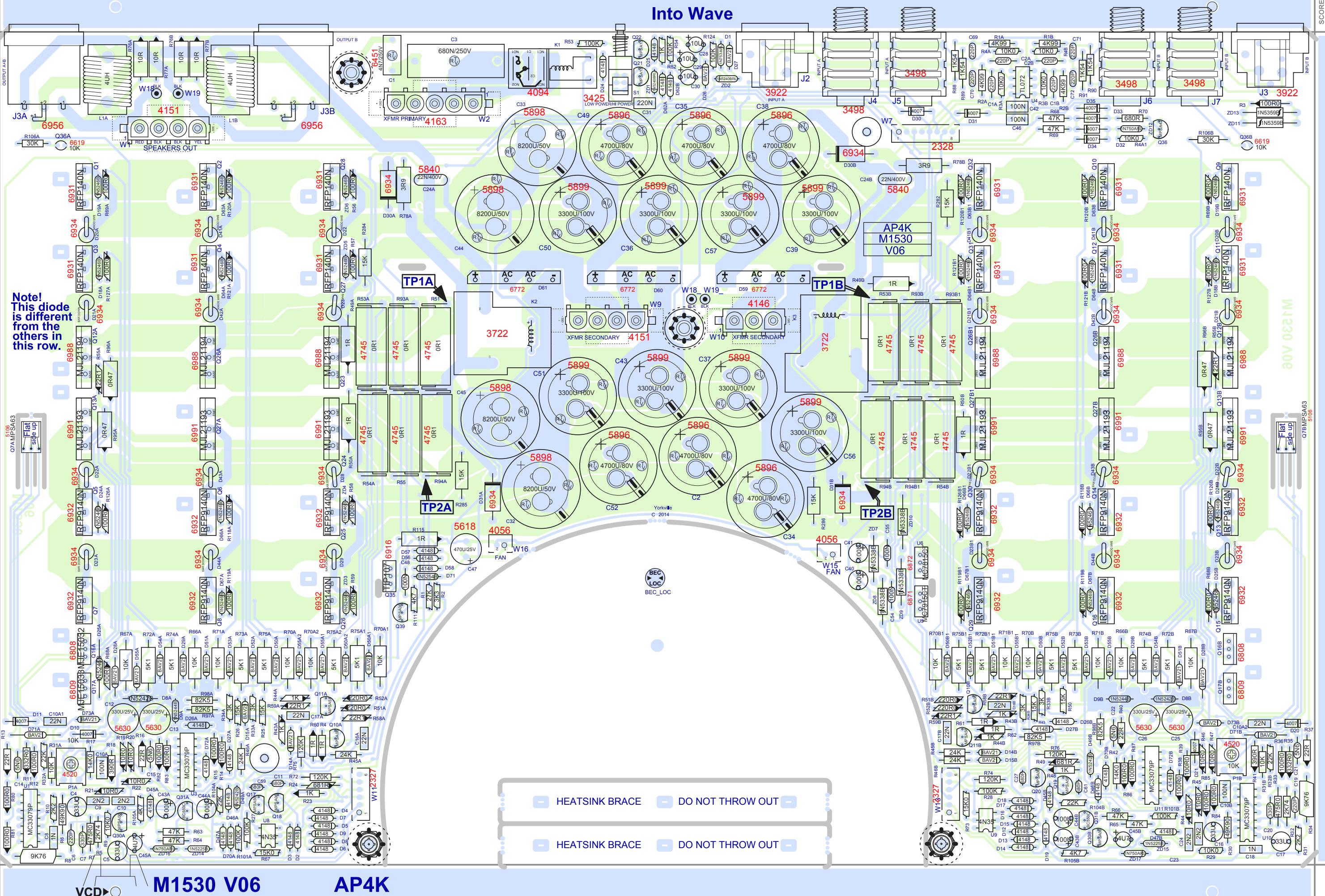
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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## LEAD / PIN REFERENCE



THIS SHEET CONTAINS EXTRA INFORMATION ABOUT THE DESIGN AS WELL AS A HISTORY TABLE.

## BlankSize - 18000x11725



# DESIGN HISTORY AND INFORMATION

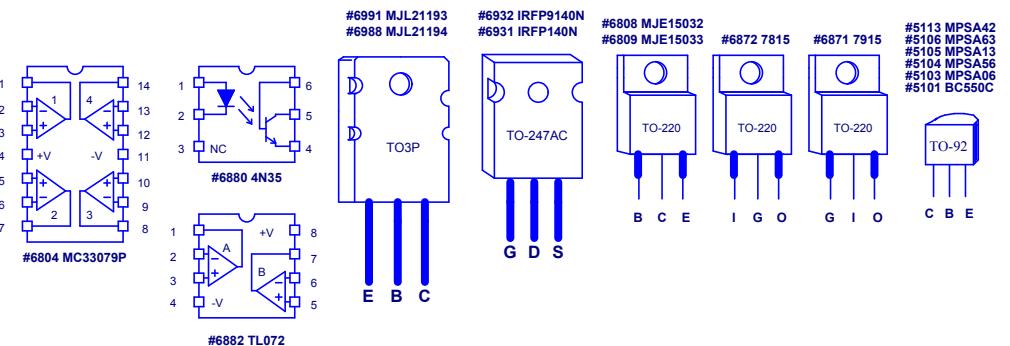
## CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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2	20-Jun-13	V02	8753	MINOR CHANGES FOR PRE PRODUCTION RUN
3	10-Dec-13	V03	8598:	Add 4 pin connector #4151 for output. GG
4	27-Mar-14	V04	8630	Add a hole for a support brace. GG
5	15-Dec-14	.	8701	Change R72 and R74 with 2X120K resistor#4851
6	.	.	8734	Tack on #6438(1N4007)diode to C54 and C55. via holes moved near J3A
7	24-Feb-15	V05	8760	R63-R66, and ZD14-ZD17 added to relay control
8	.	.	8703	PC#8701 and PC#8734 Implemented on Board.
9	.	.	.	
10	09-APR-2015	.	8767	PC#8767:R101A and R101B changed from 220K to 100K (YS#6120).
11	07-Jul-2015	V06	8768	Add bottom solder mask on #3820 GG
12	.	.	.	Move W9 away from K2
13	.	.	.	

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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## LEAD / PIN REFERENCE



THIS SHEET CONTAINS EXTRA INFORMATION ABOUT THE DESIGN AS WELL AS A HISTORY TABLE.

# PCB ASSEMBLY DOCUMENTATION

## SPECIAL PRODUCTION NOTES

### M1530V05 PRODUCTION NOTES

#### 1. RTV MUST BE ADDED TO THE FOLLOWING COMPONENTS

C2, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C43, C44, C45, C49,  
C50, C51, C52, C56, C57, BETWEEN C1 AND C3, BETWEEN L1A  
AND J3A, BETWEEN L1B AND J3B.

#### 2. MOUNT BRIDGE RECTIFIER HEATISINK BEFORE WAVE SOLDER.

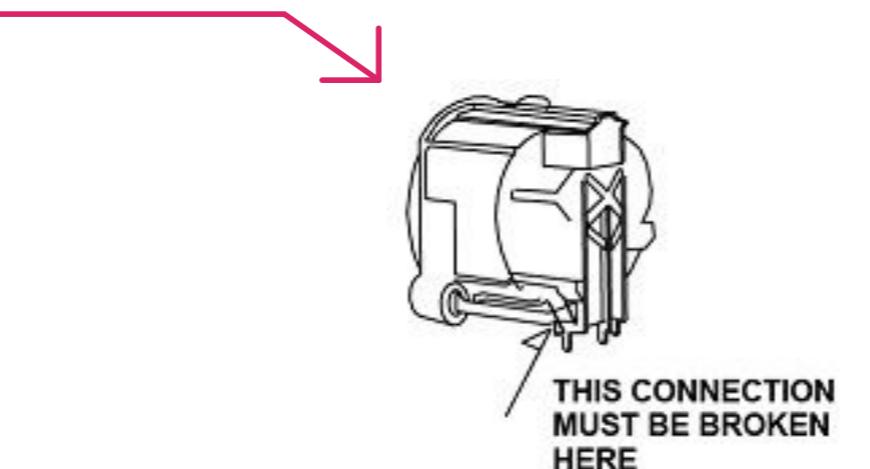
#### 3. ADD TWO #8663 SPACERS UNDER EACH #6931 AND #6932 TRANSISTORS.

#### 4. CLIP LEADS SHORT ON ALL POWER TRANSISTORS AND DIODES.

#### 5. ADD JUST A VERY SMALL AMOUNT OF RTV UNDER STONE RESISTORS.

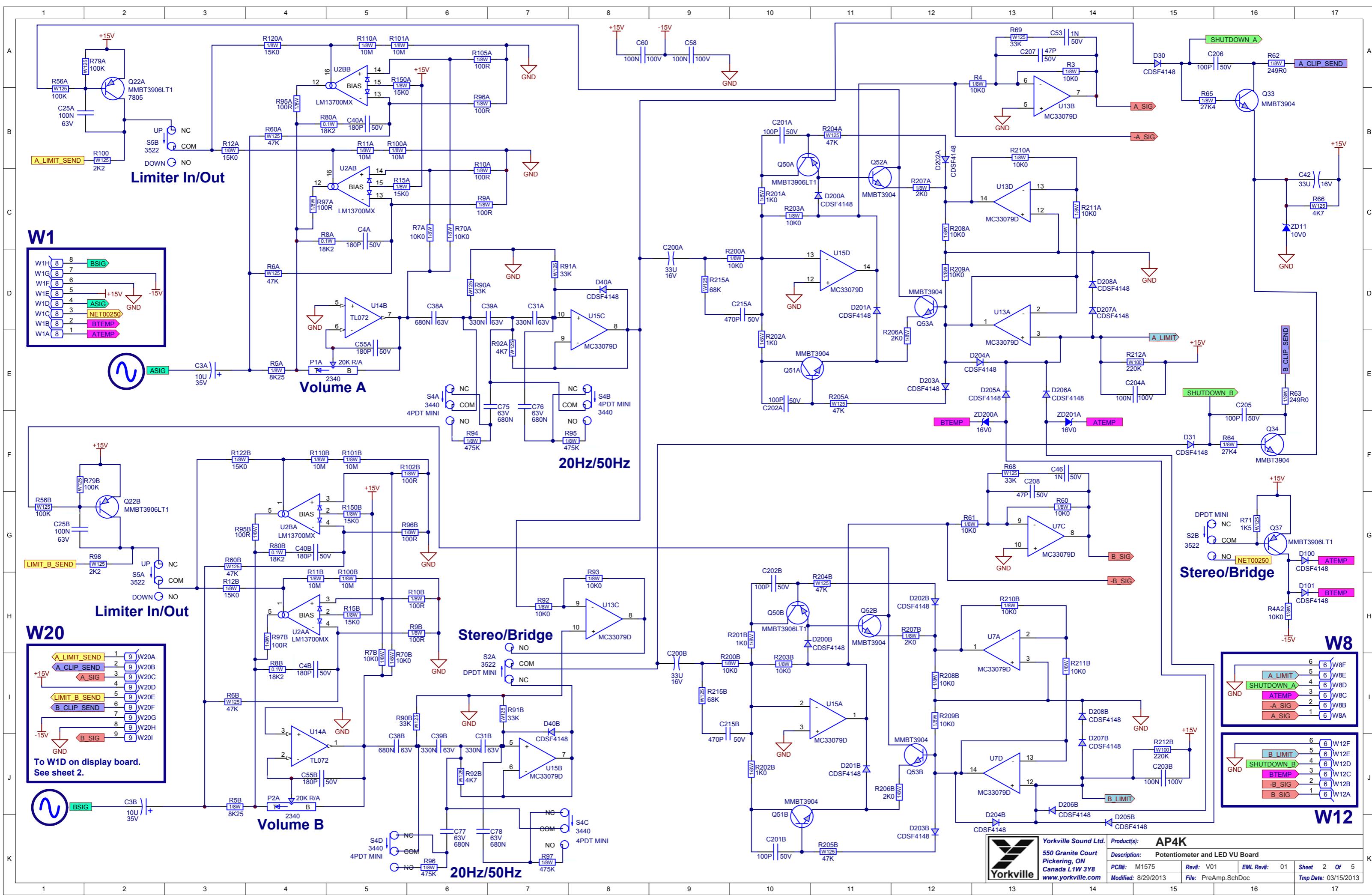
#### 6. DO NOT ADD RTV IN BETWEEN POWER SUPPLY CAPS.

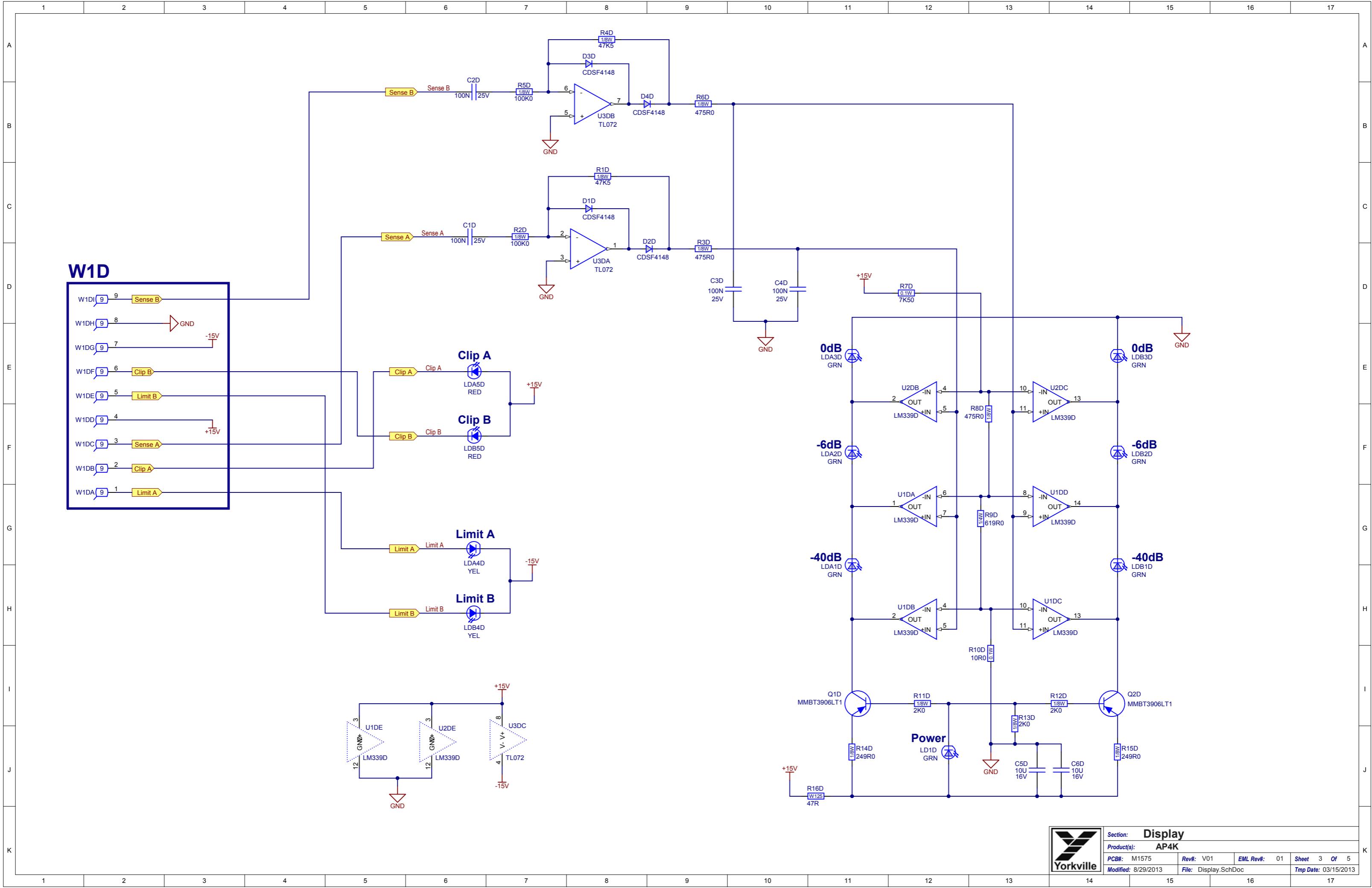
#### 7. BREAK THE CHASSIS CONNECTION OF J2 AND J3 AS SHOWN:



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

Assembly Documentation			
Product(s):	AP4K	Sheet 1 Of *	
PCB#:	M1530	Rev#:	V06
Modified:	7/9/2015	EML Rev#:	01
		File:	Assembly.SchDoc
		Tmp Date:	TemplateReyDate





Section: Display  
 Product(s): AP4K  
 PCB#: M1575 Rev#: V01 EML Rev#: 01 Sheet 3 Of 5  
 Modified: 8/29/2013 File: Display.SchDoc Tmp Date: 03/15/2013

# PCB ASSEMBLY DOCUMENTATION

## SPECIAL PRODUCTION NOTES

1. PCBSA: Bend C200A and C200B down.
2. PCBSA: Do not insert W1D.
3. PCBSA: After wave soldering, break out display board and solder onto pot board.



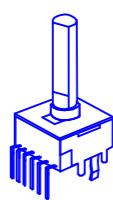
# DESIGN HISTORY AND INFORMATION

## CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	26-JUN-2013	V01	.	FIRST PRODUCTION RELEASE. - ML
2	29-AUG-2013	.	8573	R212A and R212B changed to 220K (SM8060). - ML
3	.	.	.	.
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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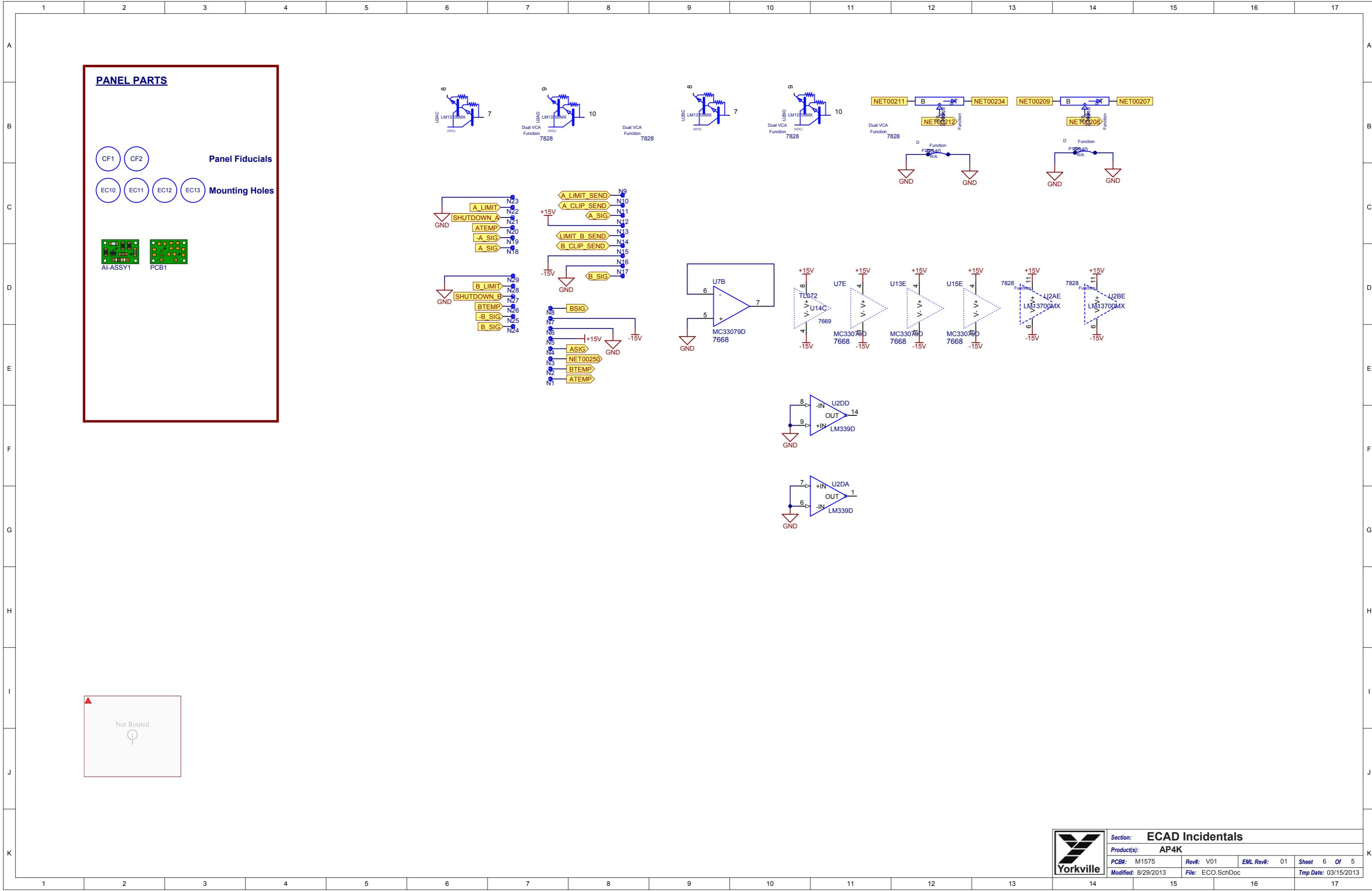
# POTENTIOMETERS AND KNOBS

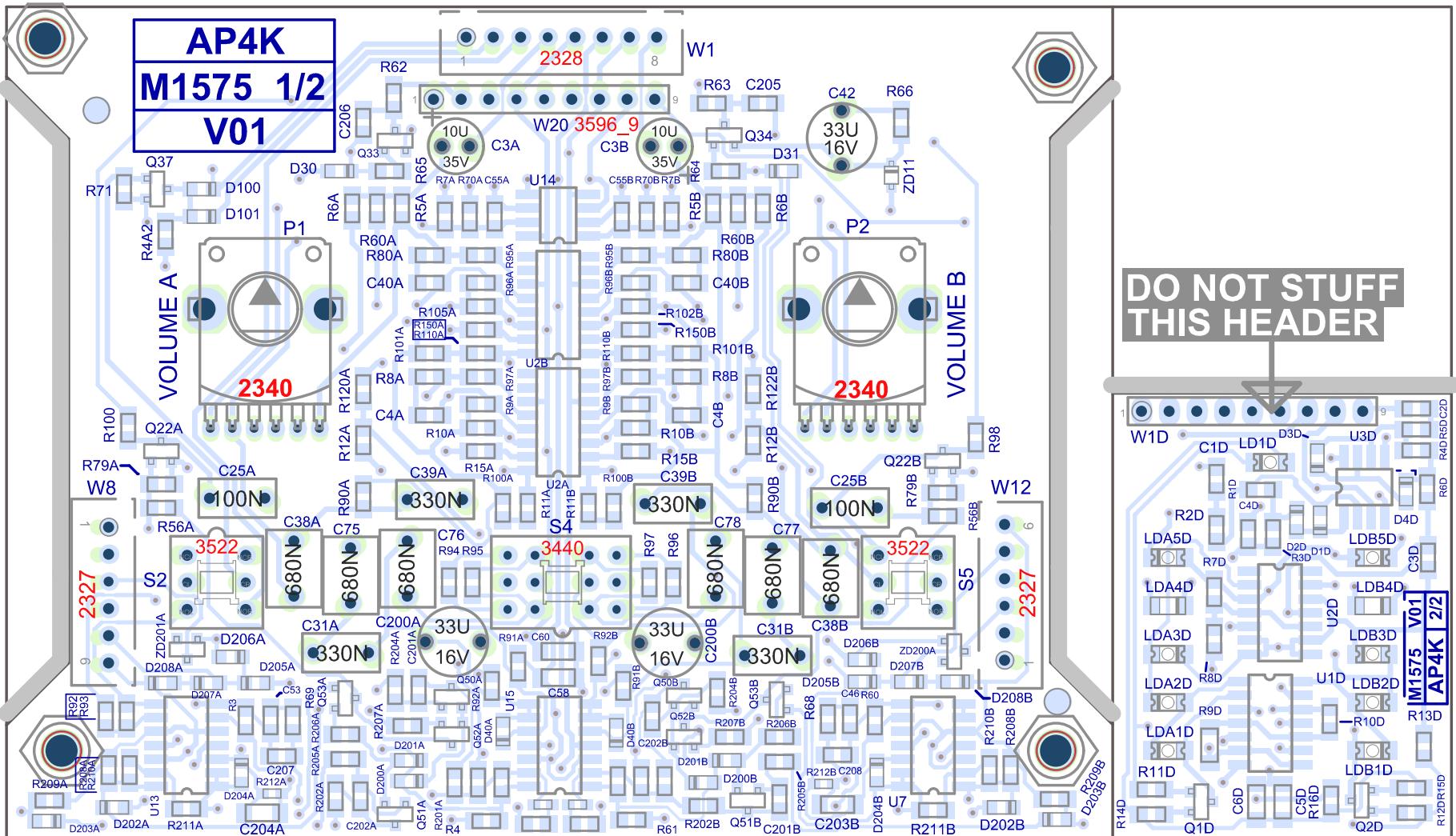
## POTENTIOMETERS AND KNOBS



"STYL E P34"

THIS SHEET CONTAINS EXTRA INFORMATION ABOUT THE DESIGN AS WELL AS A HISTORY TABLE.





### PANEL INFO

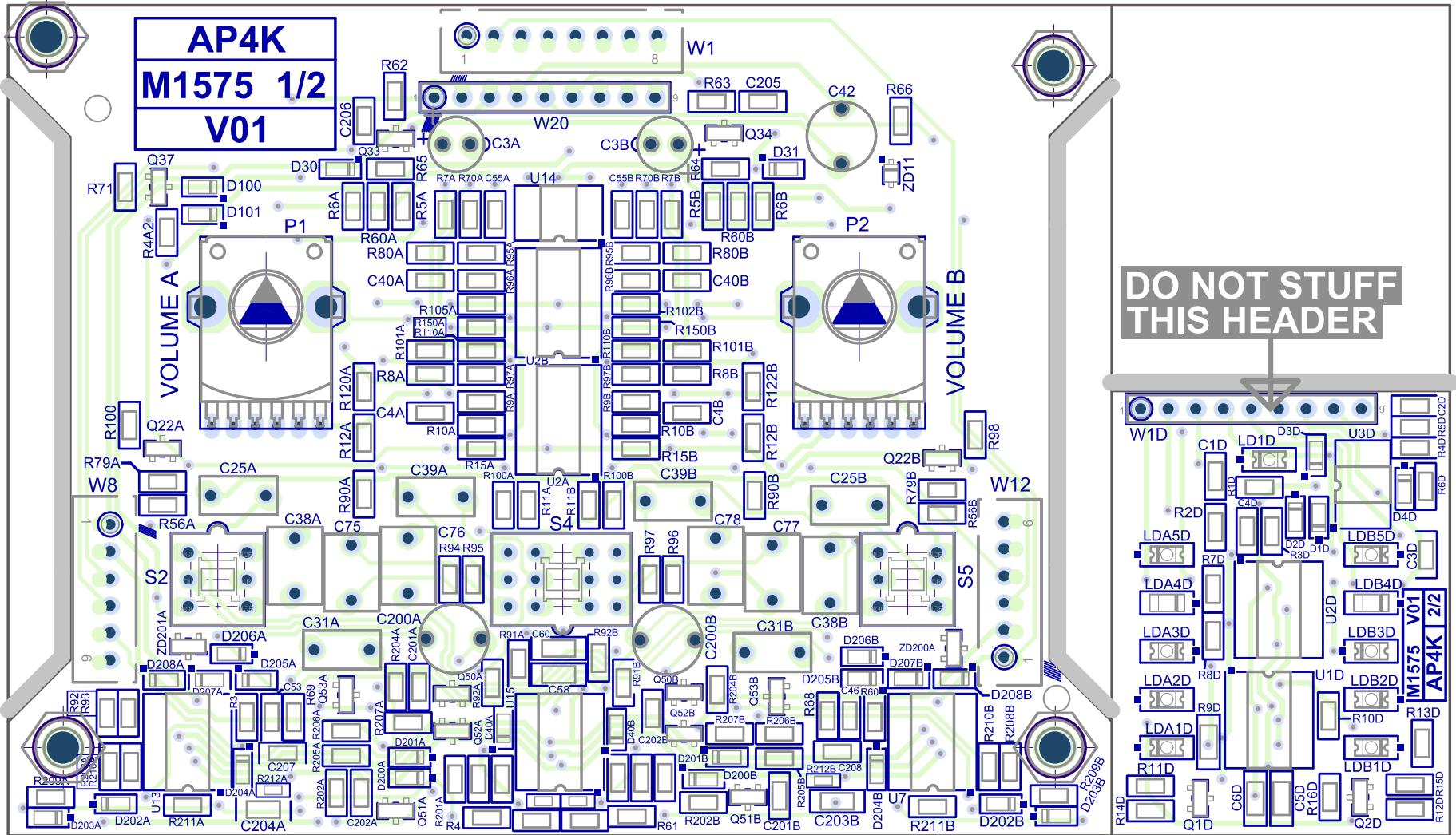
BlankSize - 16425x7030

# of boards per panel: 6

Step & Repeat: X3@5.225Y2@3.015



DESIGNER	Ray Himeault	PRODUCT	AP4K
PCB DESIGNER	Peter Till	POTOMETER AND LED VU BOARD	
CONTACTS	Yorkville Sound Ltd. 156 Granite Court Pickering, ON L1W 3Y8 Canada	BOARD NO.	M1575
FILE NAME	M1575.PcbDoc	REV	V01
DATE	2017-02-01	SMALL REV	01
TEMPLATE REV DATE	03/15/2013		



### PANEL INFO

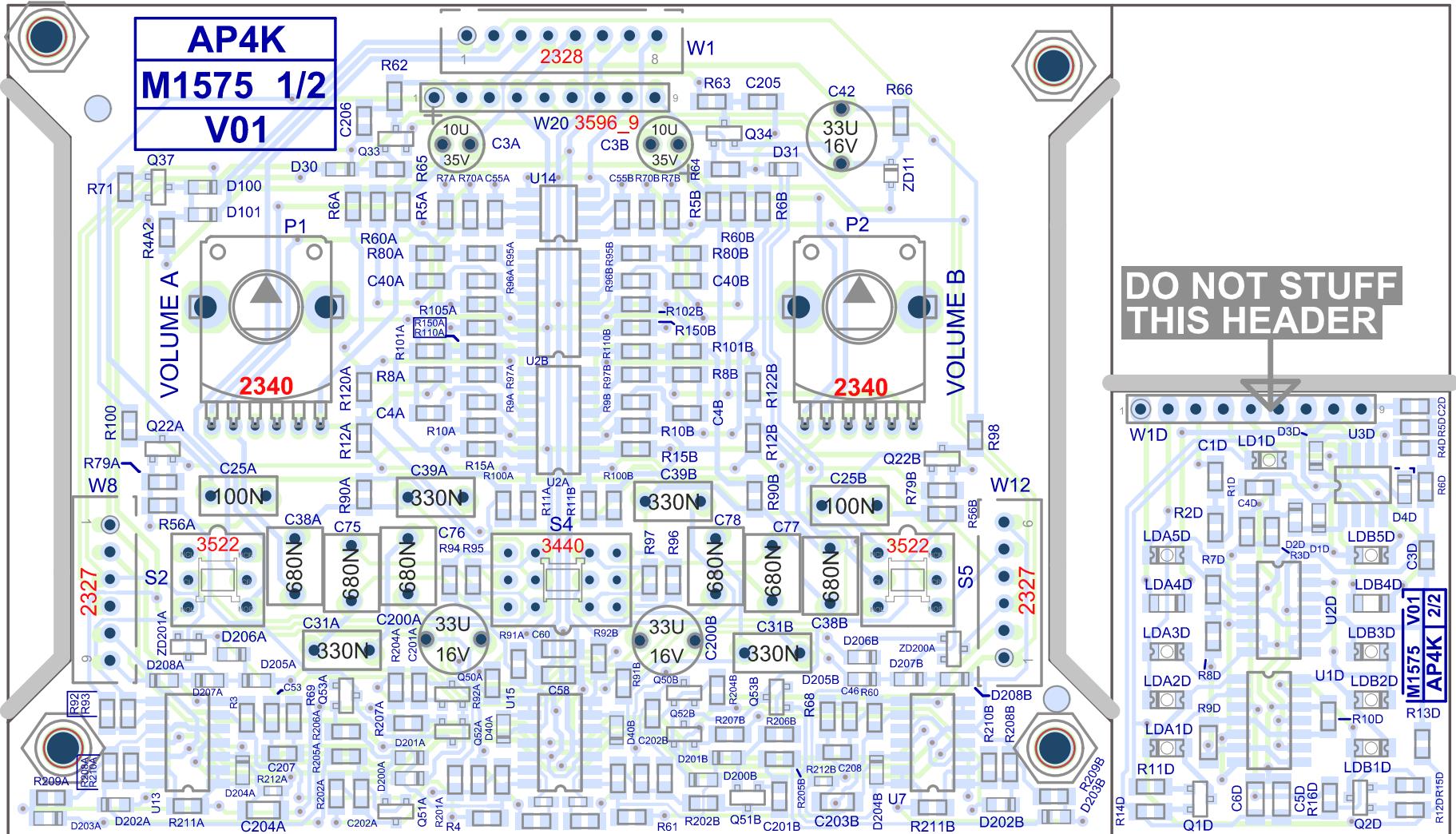
BlankSize - 16425x7030

# of boards per panel: 6

Step & Repeat: X3@5.225Y2@3.015



DESIGNER	Ray Himeault	PRODUCT	AP4K
PCB DESIGNER	Peter Till	POTENOMETER AND LED VU BOARD	
CONTACTS	Yorkville Sound Ltd. 125 Granite Court Pickering, ON L1W3Y8 Canada	BOARD NO.	M1575
FILE NAME	M1575.PcbDoc	DATE	2017-02-01
TEMPLATE REV DATE		IML REV	01



DESIGNER	Ray Himeault	PRODUCT	AP4K
PCB DESIGNER	Peter Till	POTOMETER AND LED VU BOARD	
CONTACTS	Yorkville Sound Ltd. 159 Granite Court Pickering, ON L1W3Y8 Canada	BOARD NO.	M1575
FILE NAME	M1575.PcbDoc	DATE	2017-02-01
TEMPLATE REV DATE		IML REV	01

# PCB ASSEMBLY DOCUMENTATION

## SPECIAL PRODUCTION NOTES

1. PCBSA: Bend C200A and C200B down.
2. PCBSA: Do not insert W1D.
3. PCBSA: After wave soldering, break out display board and solder onto pot board.



Section: Assembly Documentation

Product(s): AP4K

PCB#: M1575

Rev#: V01

EML Rev#: 01

Sheet 4 OF 5

Modified: 2017-02-01

File: Assembly.SchDoc

Tmrp Date: 03/15/2013

# DESIGN HISTORY AND INFORMATION

## CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	26-JUN-2013	V01	.	FIRST PRODUCTION RELEASE. - ML
2	29-AUG-2013	.	8573	R212A and R212B changed to 220K (SM8060). - ML
3	.	.	.	.
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## POTENTIOMETERS AND KNOBS

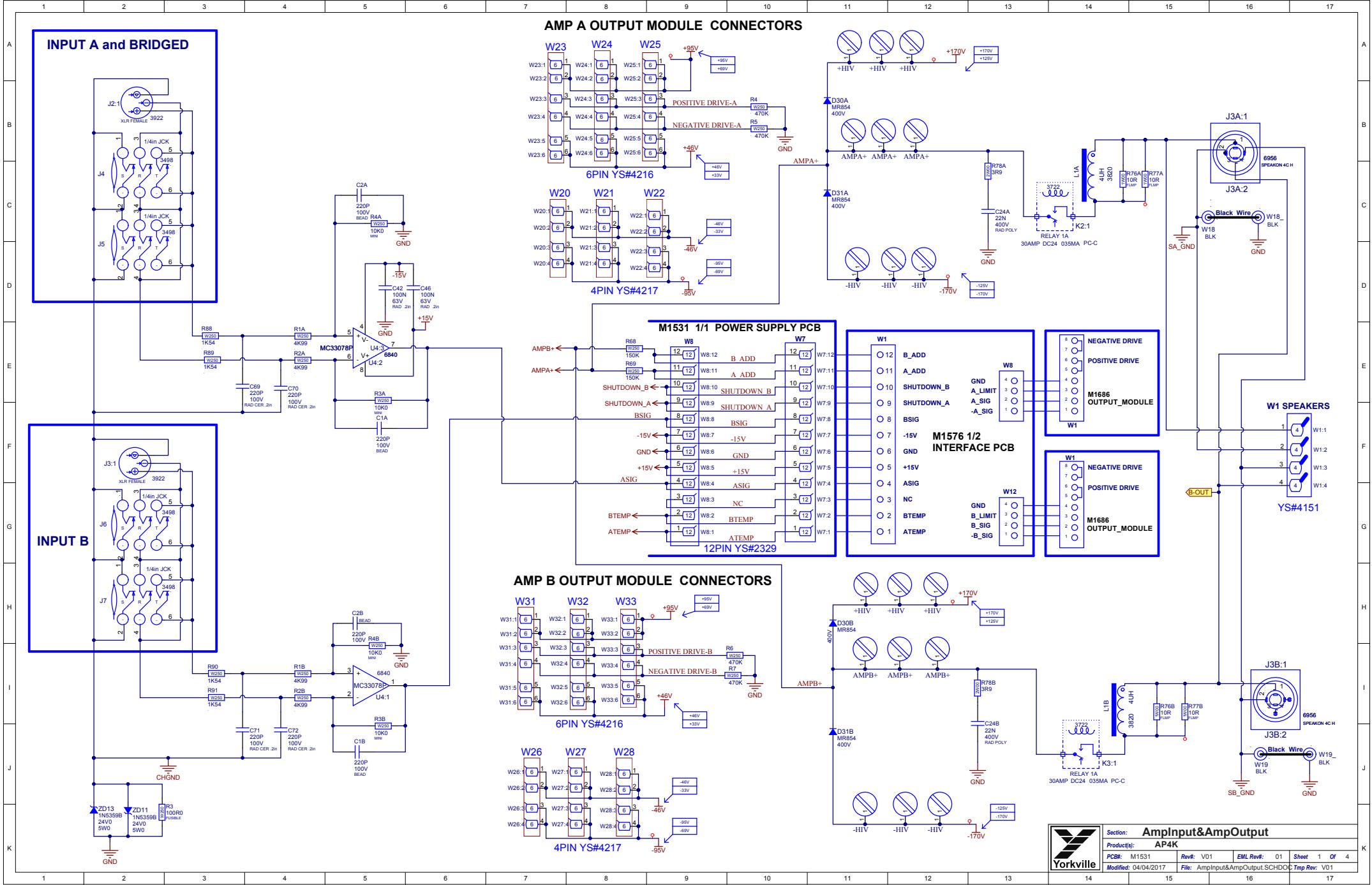
POTENTIOMETERS AND KNOBS				
REF	FUNCTION	POT#	STYLE	KNOB#
P1	VOLUME A	2340	P34	10021
P2	VOLUME B	2340	P34	10021
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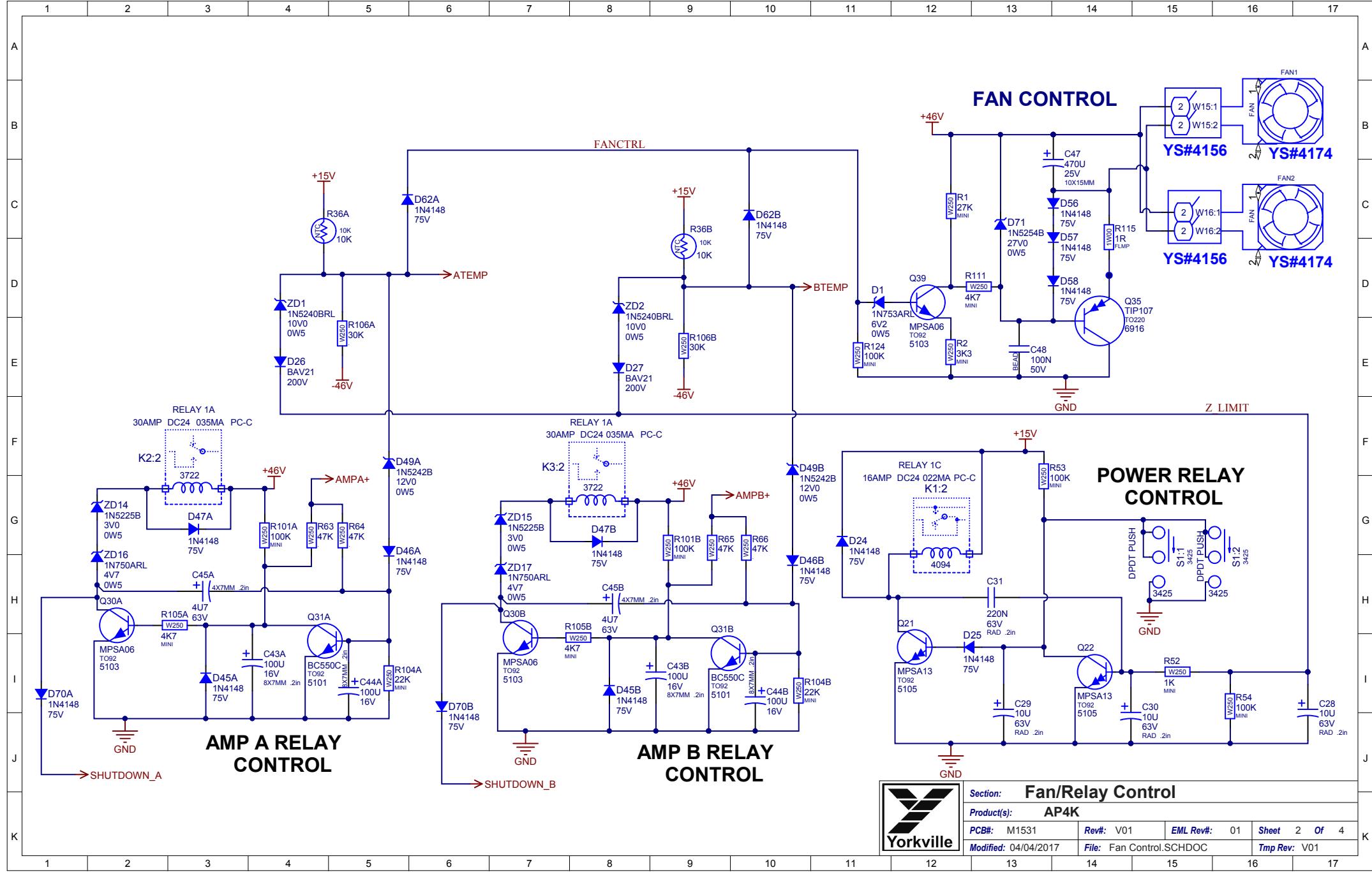


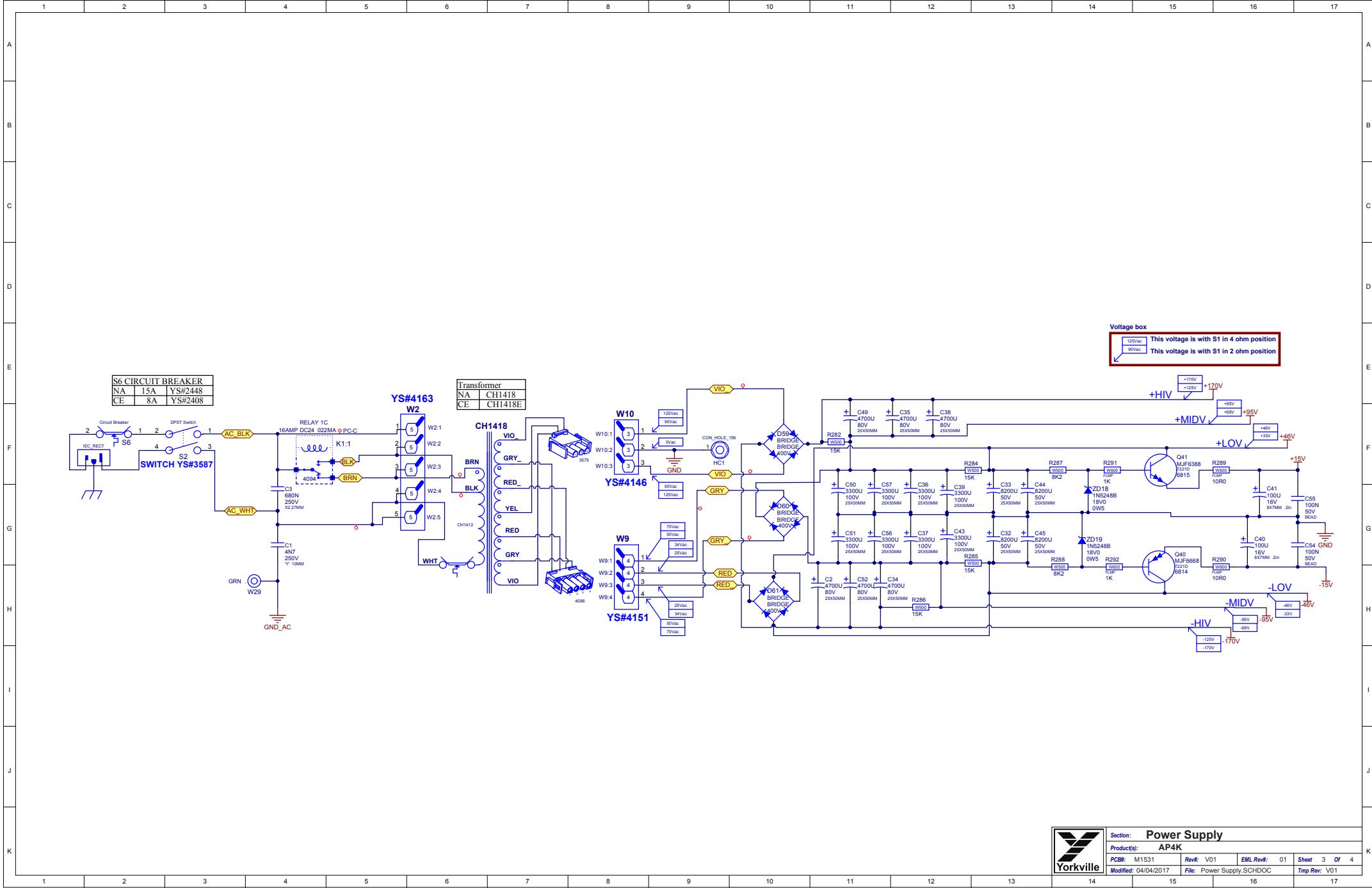
"STYLE\_P34"

THIS SHEET CONTAINS EXTRA INFORMATION ABOUT THE DESIGN AS WELL AS A HISTORY TABLE.









# M1531V01 DESIGN HISTORY AND INFORMATION

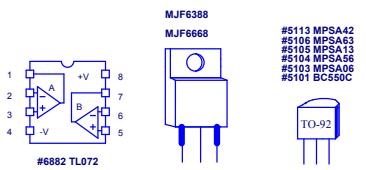
## CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	MARCH-23-2017	V01	.	RELEASED FOR PRODUCTION
2	.	.	.	
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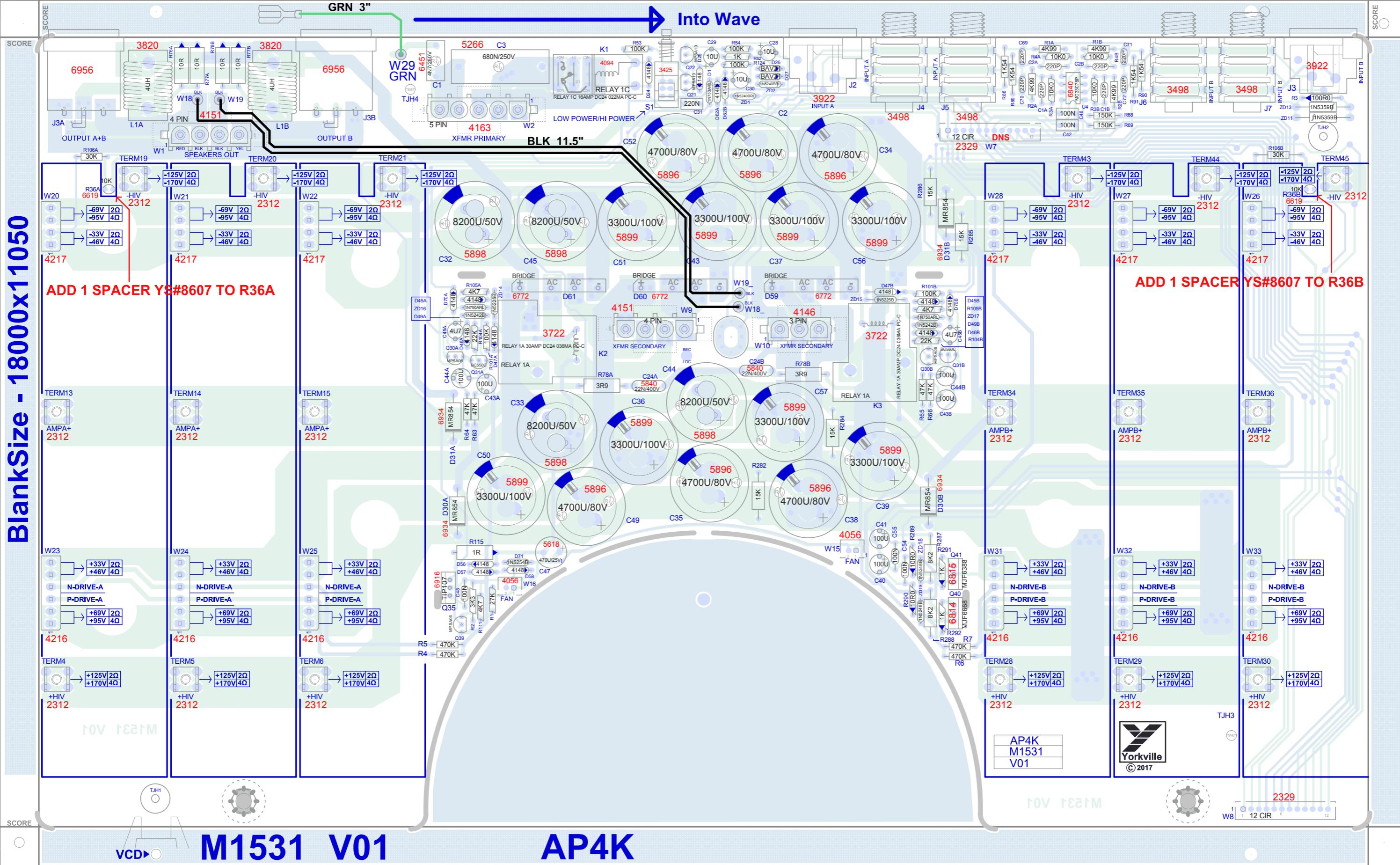
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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## LEAD / PIN REFERENCE



THIS SHEET CONTAINS EXTRA INFORMATION ABOUT THE DESIGN AS WELL AS A HISTORY TABLE.

**BlankSize - 18000x11050**



79mil (2mm) Rad~4 PLACES

**M1531 V01**

**AP4K**

# PCB ASSEMBLY DOCUMENTATION

## SPECIAL PRODUCTION NOTES

### M1531V01 PRODUCTION NOTES

#### 1. RTV MUST BE ADDED TO THE FOLLOWING COMPONENTS

C2, C28, C29, C30, C32, C33, C34, C35, C36, C37, C38, C39, C43, C44, C45, C49,  
C50, C51, C52, C56, C57, BETWEEN C1 AND C3, BETWEEN L1A  
AND J3A, BETWEEN L1B AND J3B.

#### 2. ADD SPACER YS#8607 ON 1 LEAD OF THERMISTOR R36A AND R36B.

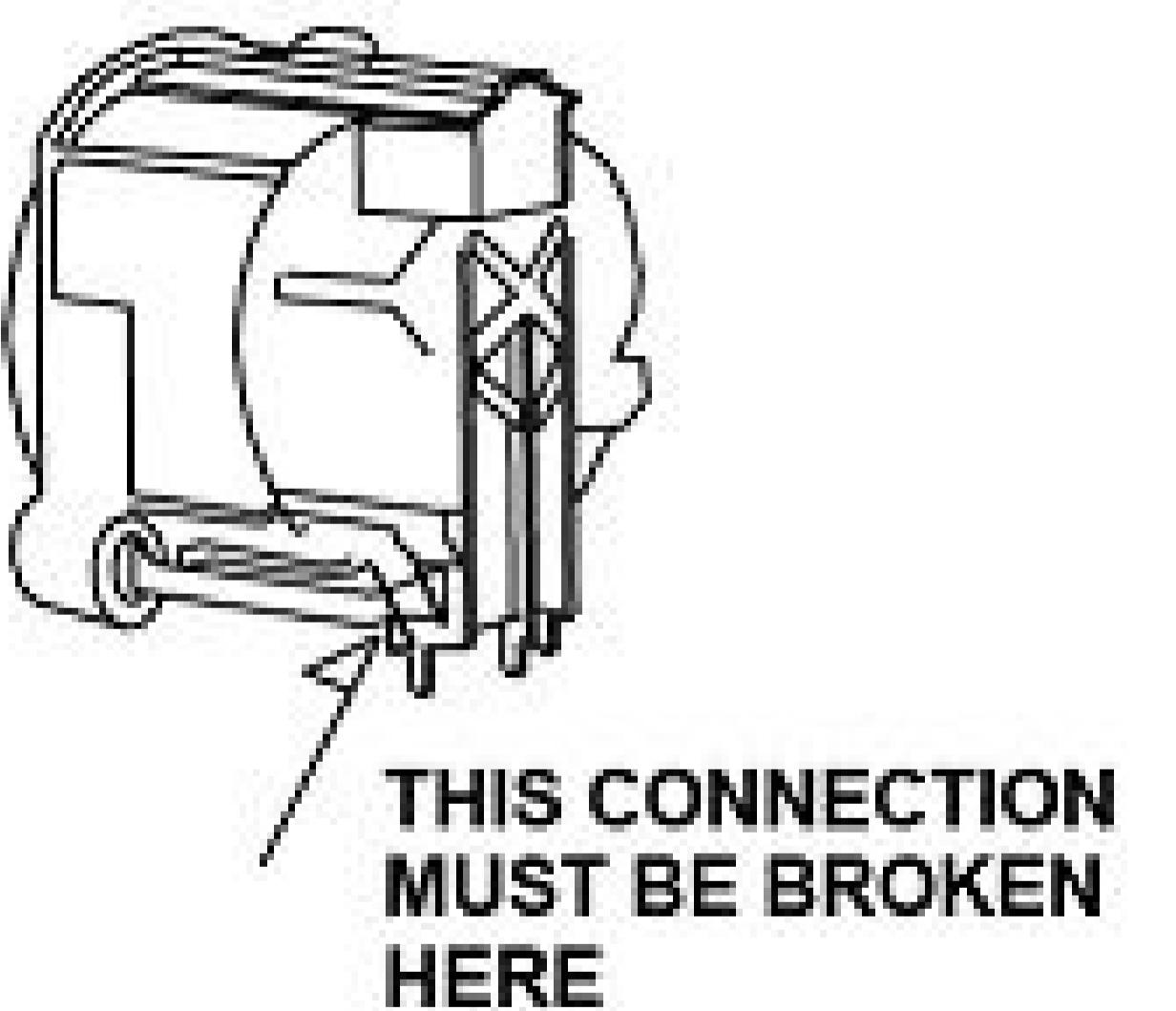
#### 3. MOUNT BRIDGE RECTIFIER HEATISINK BEFORE WAVE SOLDER.

#### 4. CLIP LEADS SHORT ON ALL POWER TRANSISTORS ,CAPACITORS AND DIODES.

#### 5. DO NOT ADD RTV IN BETWEEN POWER SUPPLY CAPS.

#### 6. DO NOT STUFF W7 XH-HEADER .

#### 7. BREAK THE CHASSIS CONNECTION OF J2 AND J3 AS SHOWN:



# M1531V01 DESIGN HISTORY AND INFORMATION

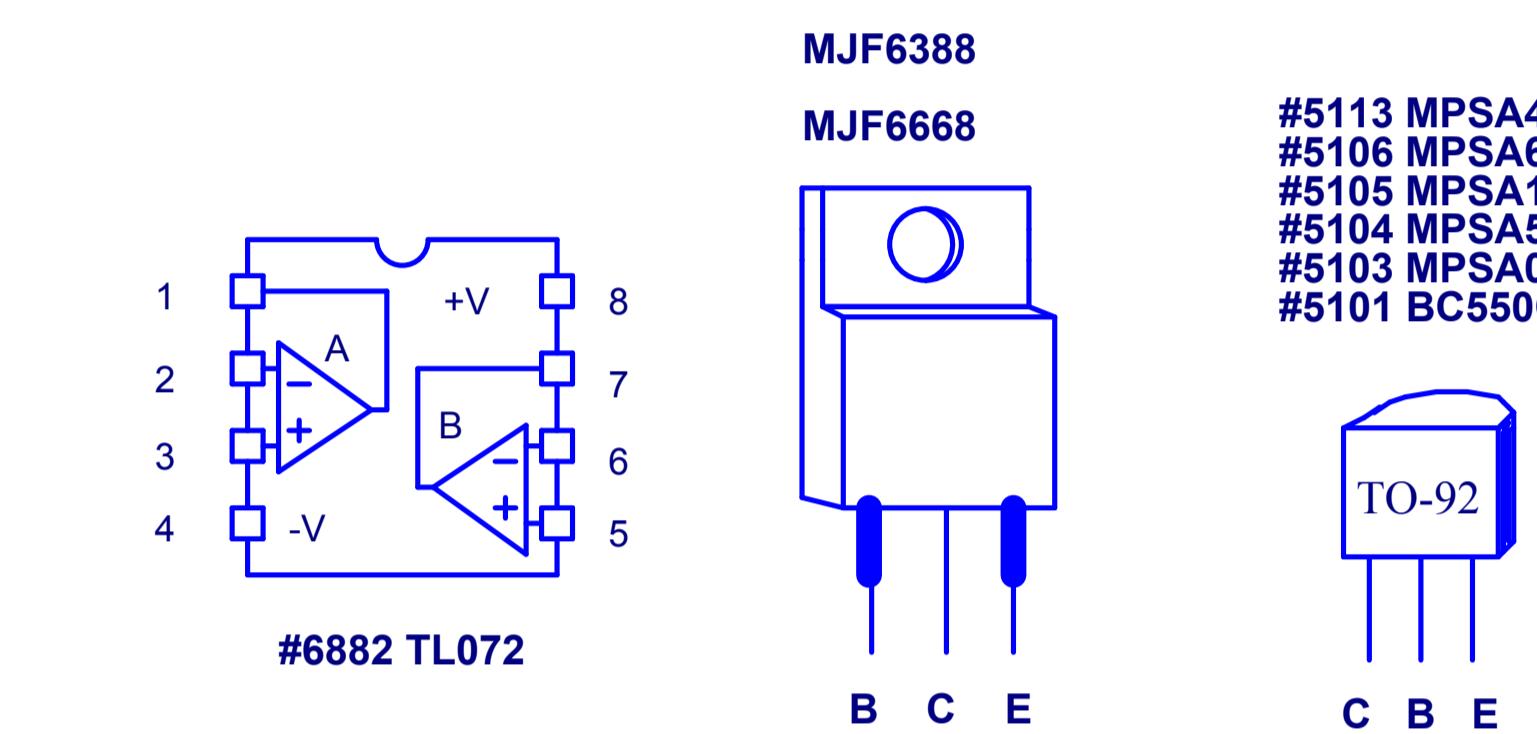
## CHANGE HISTORY

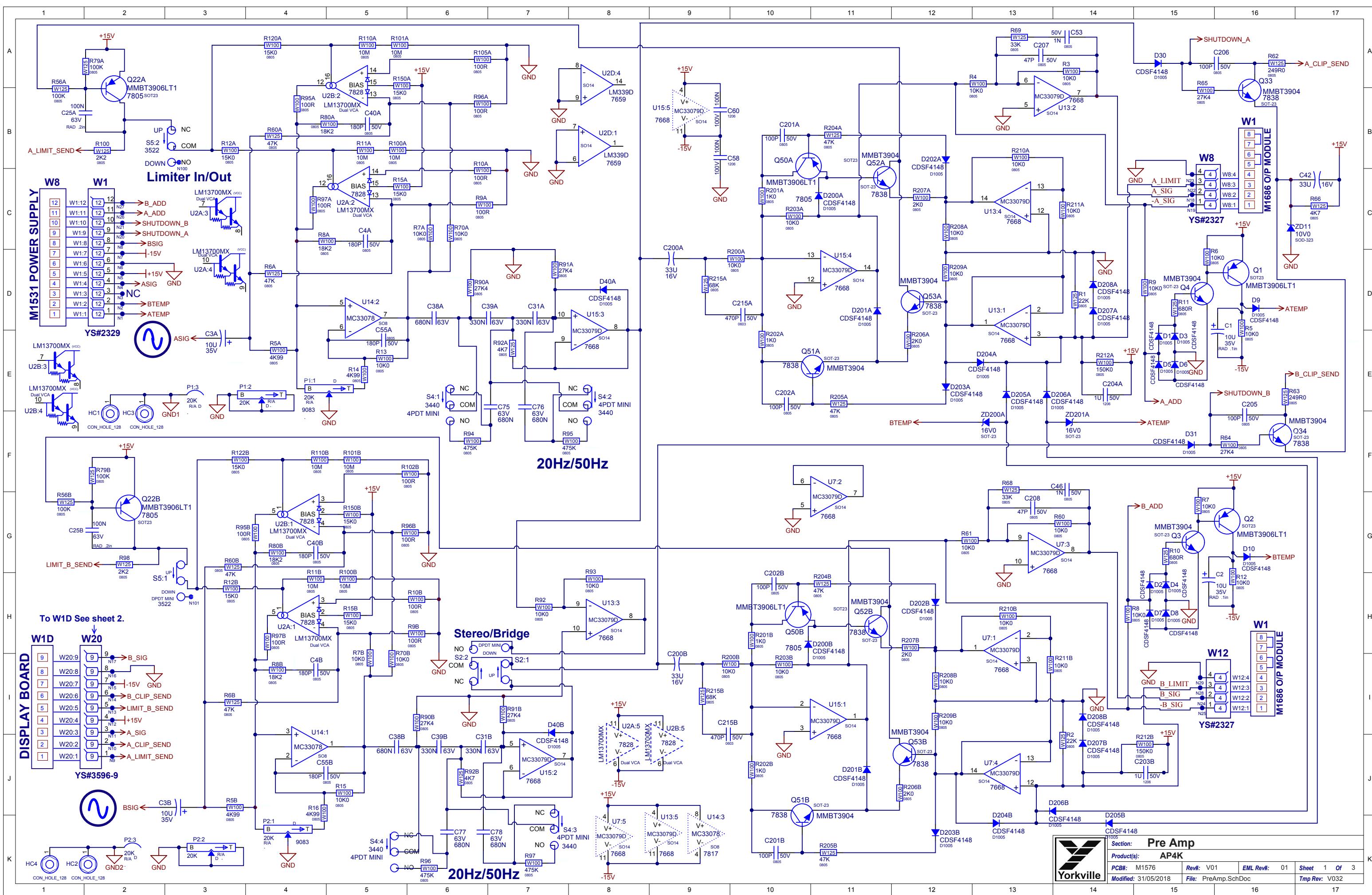
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	MARCH-23-2017	V01	.	RELEASED FOR PRODUCTION
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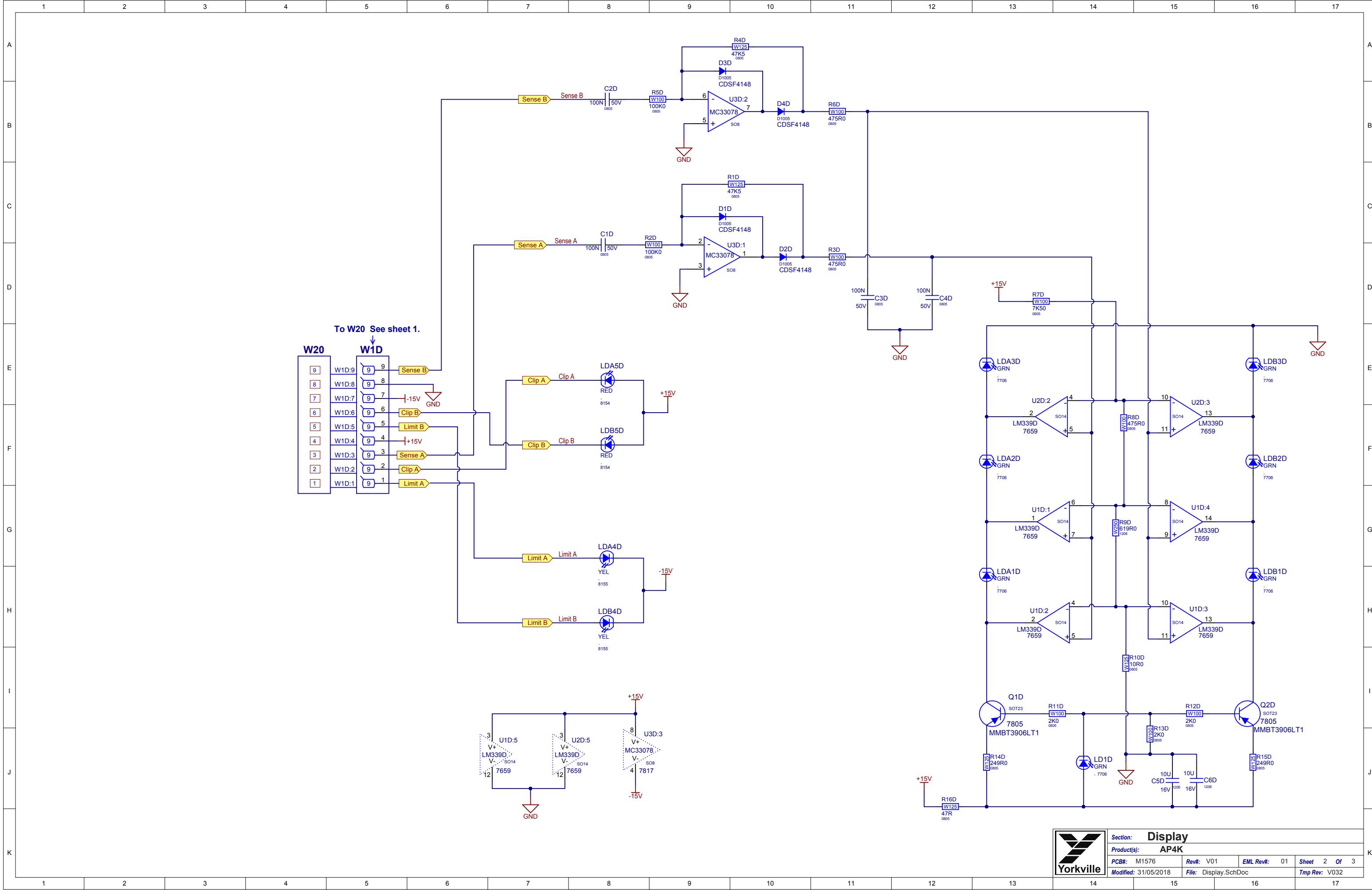
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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## LEAD / PIN REFERENCE







# M1576V01 DESIGN HISTORY AND INFORMATION

## CHANGE HISTORY

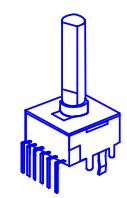
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	MARCH-23-2017	V01		RELEASED FOR PRODUCTION
2	MAY-31-2018	V01	9241	R90A,R91A,R90B,R91B 33K REPLACED WITH 27K4 #7636 R6,R7 1K5 REPLACED WITH 10K0 #7625 C203B,C204A 100N REPLACED WITH 1U/50V #7734
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## POTENTIOMETERS AND KNOBS

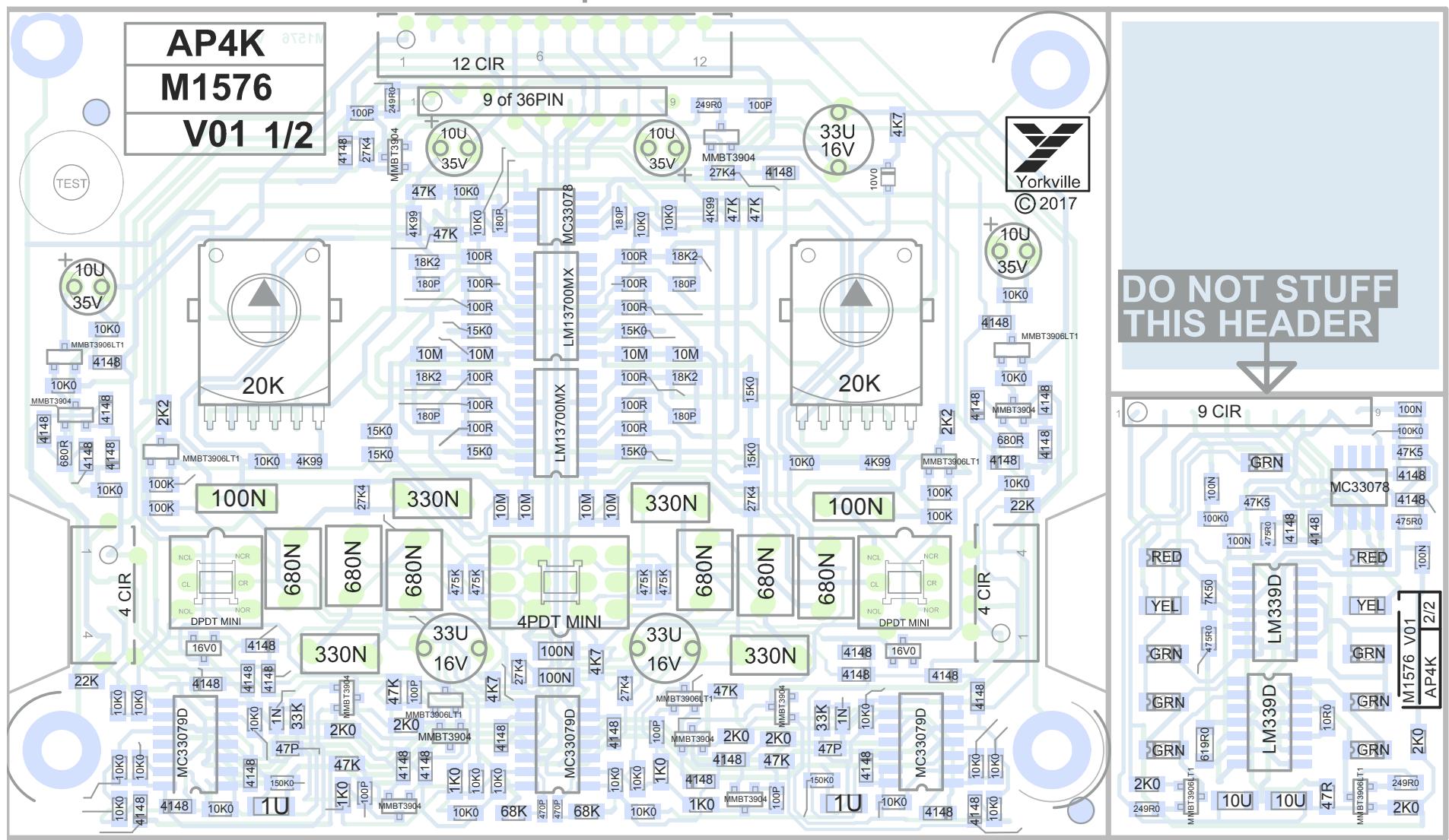
POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1	VOLUME A	9083	P34	10021
P2	VOLUME B	9083	P34	10021
S2	Stereo/Bridge	3522	.	8633
S4	20Hz/50Hz	3440	.	8633
S5	Limiter In/Out	3522	.	8633
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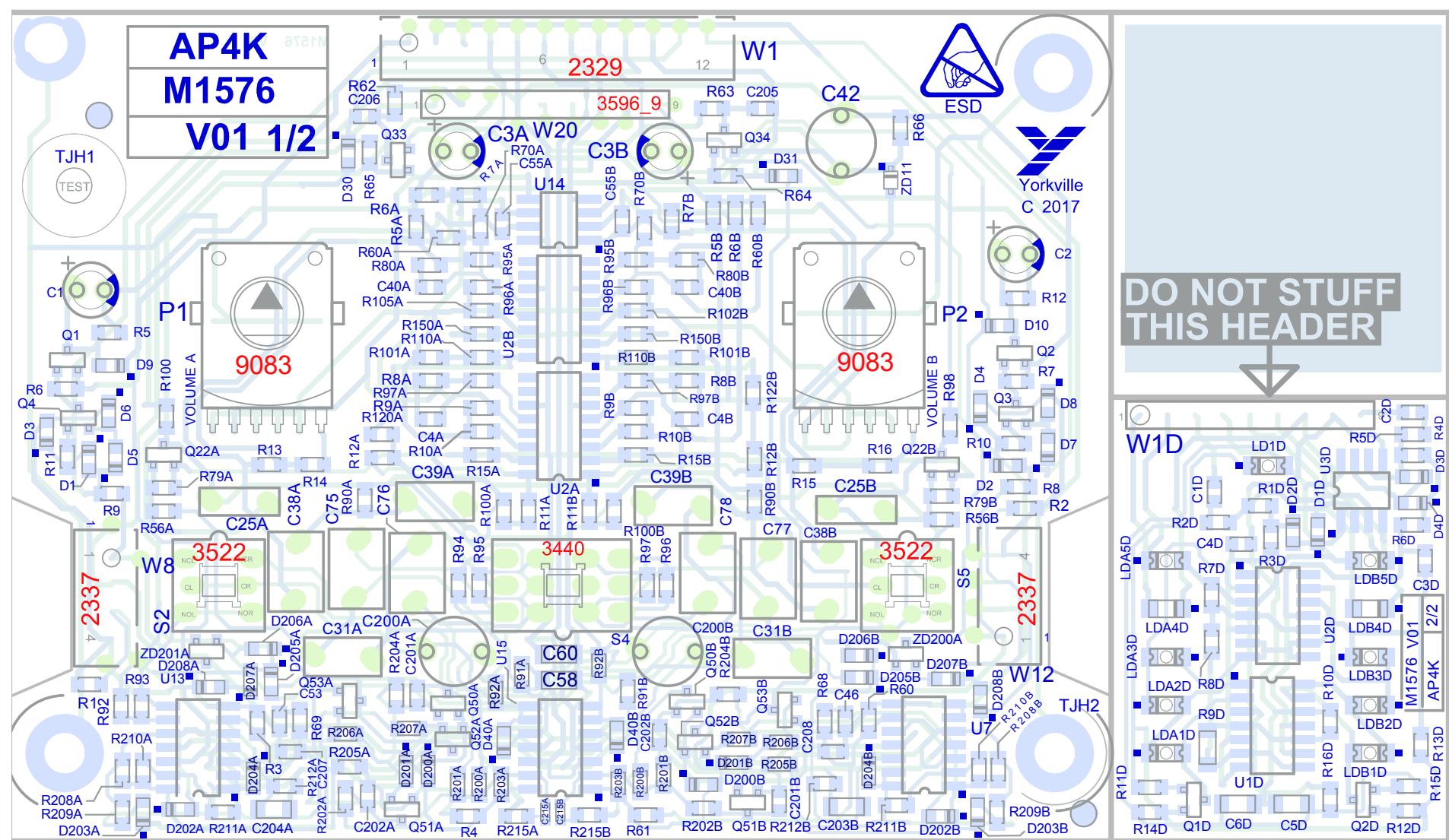
"STYLE\_P34"

THIS SHEET CONTAINS EXTRA INFORMATION ABOUT THE DESIGN AS WELL AS A HISTORY TABLE.

# Components Value



# Designators



BlankSize - 11200x7030

# of boards per panel: 4

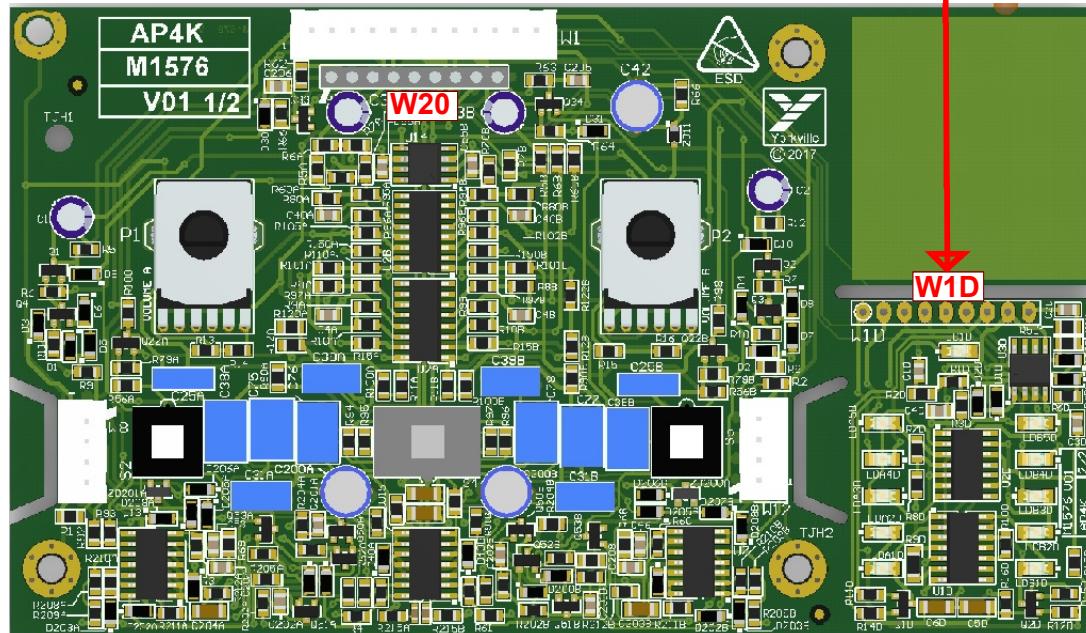
Step & Repeat: X2@5.225Y2@3.015

# PCB ASSEMBLY DOCUMENTATION

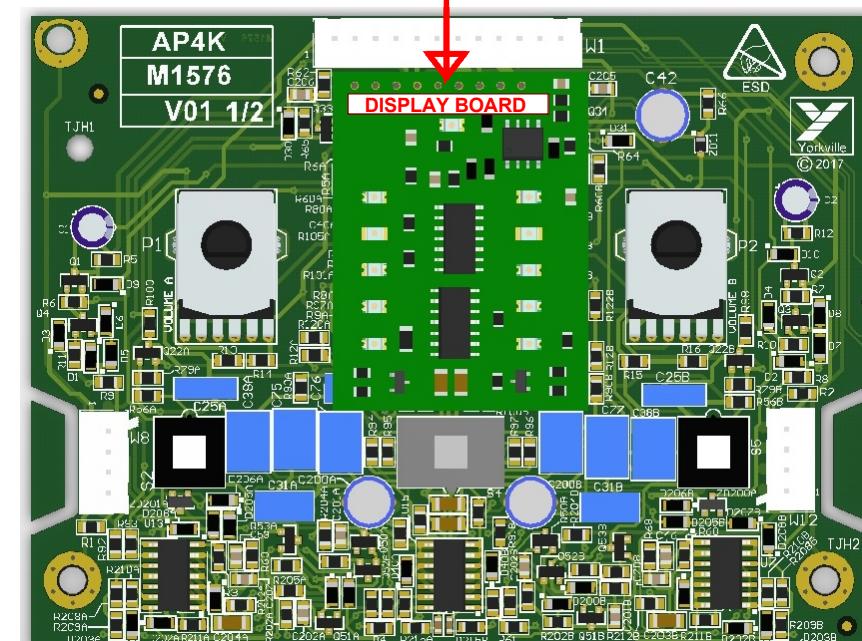
## SPECIAL PRODUCTION NOTES

**M1576V01**

**STEP 1 APPLY SOLDER MASKING AGENT TO BOTTOM PADS OF W1D BEFORE WAVE SOLDERING.**



**STEP 2 AFTER WAVE SOLDERING BREAK OUT DISPLAY BOARD AND SOLDER ON TOP OF W20 CONNECTOR.**



# M1576V01 DESIGN HISTORY AND INFORMATION

## CHANGE HISTORY

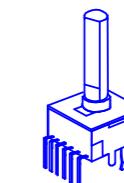
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	MARCH-23-2017	V01	. 9241	RELEASED FOR PRODUCTION
2	MAY-31-2018	V01	.	R90A,R91A,R90B,R91B 33K REPLACED WITH 27K4 #7636
3	.	.	.	R6,R7 1K5 REPLACED WITH 10K0 #7625
4	.	.	.	C203B,C204A 100N REPLACED WITH 1U/50V #7734
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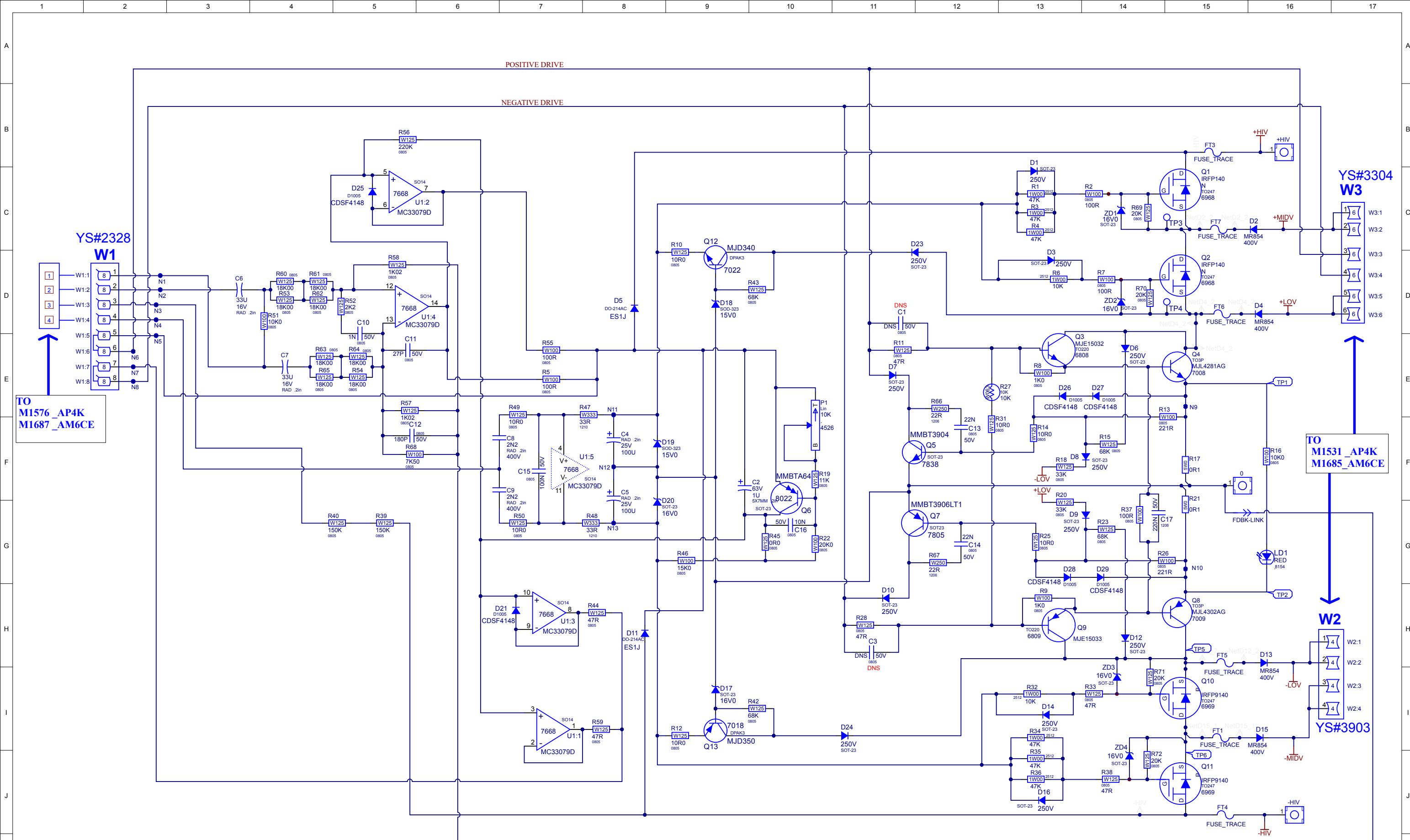
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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## POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1	VOLUME A	9083	P34	10021
P2	VOLUME B	9083	P34	10021
S2	Stereo/Bridge	3522	.	8633
S4	20Hz/50Hz	3440	.	8633
S5	Limiter In/Out	3522	.	8633
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"STYLE\_P34"



\* FOR THE SUPPLY VOLTAGE HIV/MIDV/LOV REFER TO POWER SUPPLY SCHEMATIC.

SET BIAS 5 mV COLD AMP BETWEEN TP1 AND TP2.

Section: Output Module			
Product(s): AM6CE / AP4K			
PCB#:	Rev#:	EML Rev#:	Sheet 1 Of 2
M1686	V02	01	
Modified: 2018-11-26	File: Output Module.SchDoc		Tmp Rev: V032

M1686

## DESIGN HISTORY AND INFORMATION

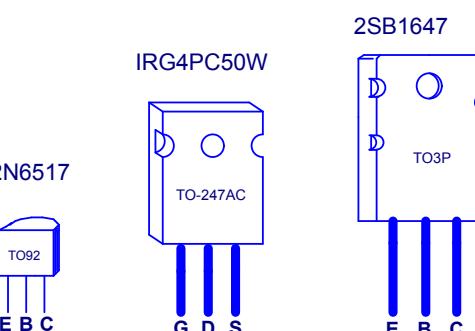
## CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	23-MARCH-2017	V01	9241	RELEASED FOR PRODUCTION
2	31-MAY2018	V01	9241	Q1,Q2 YS#6931 REPLACED WITH YS#6968
3	.	.	.	Q10,Q11 YS#6932 REPLACED WITH YS#6969
4	23-NOV-2018	V02	9313	REMOVED COPPER FROM Q1 PIN AREA TO PREVENT SHORTING TO HEATSINK
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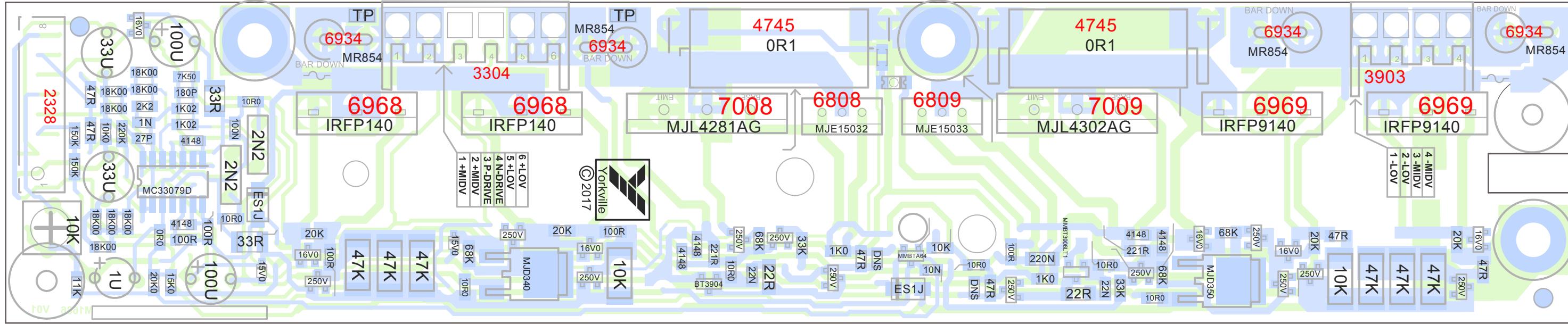
## PINOUT DIAGRAMS



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

\*  
 IF ONE OF THESE TRACES OPEN  
 REPLACE BOARD WITH M1686 ASSEMBLY.  
 FT1 ,FT3 TOP LAYER  
 FT4 , FT5, FT6 , FT7 BOTTOM LAYER

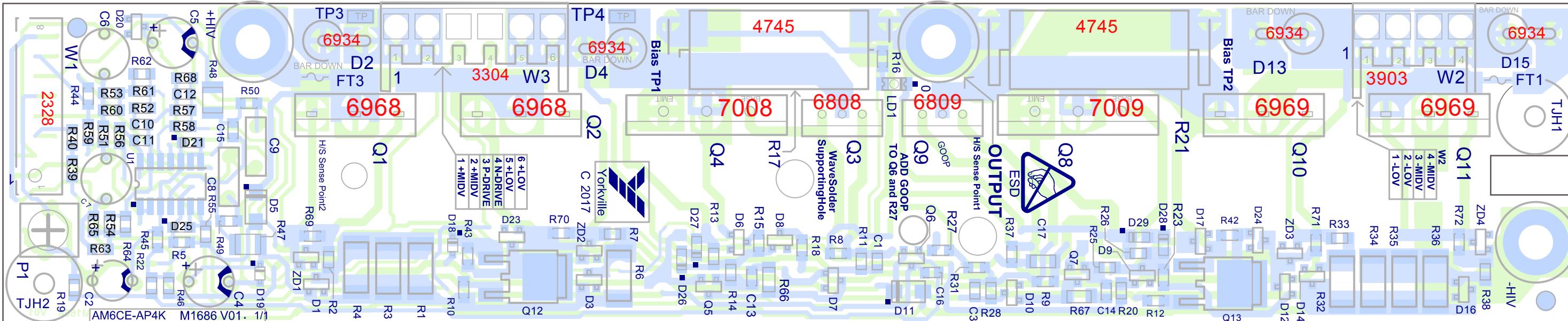
## Components Value



AM6CE-AP4K M1686 V01

**DO NOT PUT RTV ON R17 AND R21 RESISTORS.**

## Designators



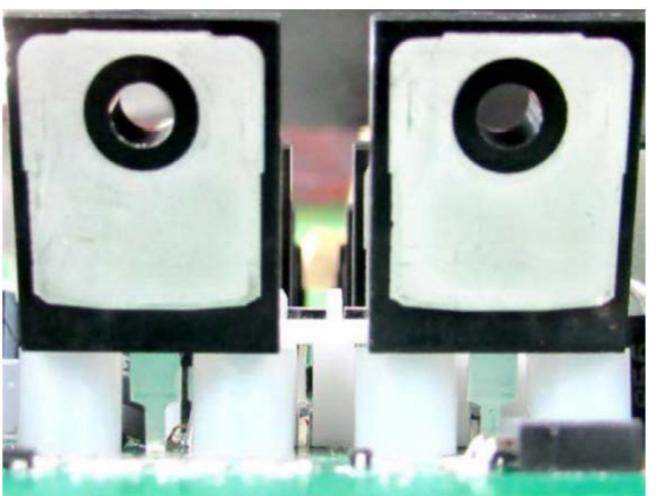
A

## M1686 SPECIAL PRODUCTION NOTES

PCBSA :

1 \_ USE JIG TO TRIM TRANSISTORS. #6808 and #6809 (S)  
#7008 and #7009 (L)  
#6968 and #6969 (M)

2 \_ INSERT TWO SPACERS #8656 ON THE OUTSIDE PINS OF EACH OF THE FOLLOWING  
TRANSISTORS Q1,Q2,Q10 AND Q11.



3 \_ DO NOT PUT RTV ON R17 AND R21 5WATTS RESISTORS.

4 \_ USE TRANSISTORS SUPPORTING JIG BEFORE WAVE SOLDER.

5 \_ BEND LEADS ON HAND PLACED PARTS IN DIRECTION OF PAD AND CUT SHORT TO LESS  
THAN LENGTH OF PAD. NO EXCEPTIONS UNLESS APPROVED BY PRODUCTION ENGINEERING.

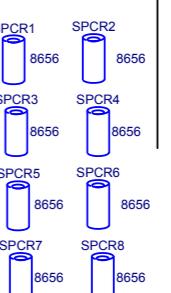
## PCB HARDWARE

SCREWS AND BOLTS

NUTS

STANDOFFS

MISCELLANEOUS



Section: Assembly Documentation

Product(s): AM6CE-AP4K

PCB# M1686 Rev# V01 BOM Rev# BOM ReSheet 4 Of 5

Date Modified: 2018-11-28 Filename: Assembly.SchDoc

M1686

## DESIGN HISTORY AND INFORMATION

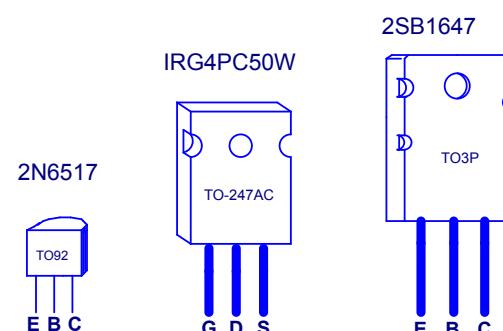
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## PINOUT DIAGRAMS



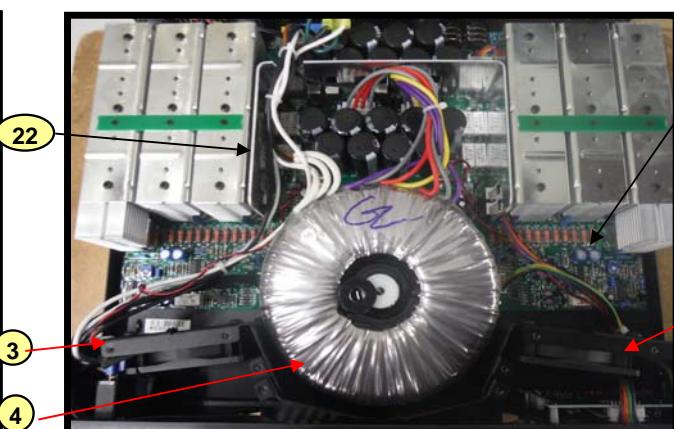
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# AP4K POWER AMPLIFIER



#	Part#	Description	Qty	#	Part#	Description	Qty
Labeled Components						Labeled Components	
1	M1530	AP4K 2X1800 WATT POWER AMP BOARD	1	16	9575	AP4K HEATSINK SMALL	4
2	M1575	AP4K INTERFACE/DISPLAY PCB	1	17	9576	AP4K HEATSINK LARGE	2
3	Z1562	AP4K FAN SHROUD	2	18	10021	AP SERIES ALU KNOB W SILVER STRIPE	2
4	Z1563	AP4K FRONT SEAL PLATE	1	19	3440	4PT MINI VERT ALT SWITCH	1
5	Z1558	AP4K FRONT LEXAN	1	20	3522	DPDT MINI PC VERT SNP ALT	2
6	Z9175	AP4K HANDLE PAINTING	1	21	6956	SPKON 4C PCB MT HORZ GRY	2
7	Z1561	AP4K COVER	1	22	Z1564	AP4K/AM5CE PWR HEATSPREADER	1
8	Z1560	AP4K CHASSIS	1	23	4124	SILPAD 1500ST 1.100 X0.820 BERQUIST	2
9	CH1418	XFMR:AP4K	1	24	4171	SILPAD 1500ST 6.200 X1.100 BERQUIST	6
10	2448	15.00 AMP CIRCUIT BREAKER	1	25	3426	8' 3/16 SJT AC LINE CORD REMOVABLE-CSA	1
11	3410	RED:LEFT/BLACK:RIGHT BIND POST TPP5	1	26	3425	DPDT PUSH SW PCMT	1
12	3415	RED:RIGHT/BLACK:LEFT BIND POST TPP5	1	27	2340	20K 15C R/A 12MM DUAL 21DET	2
13	3645	RECEPTACLE:INLET	1	28	3498	1/4" JCK PCB MT HORZ	4
14	3587	DPST ROKR SW QUIK 250VAC/PWR ON-OFF	1	29	3922	XLR FEM PCB MT HORZ THIN SNAP	2
15	4174	FAN 80MM X 80MM 72CFM 24VDC	2				





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