



SERVICE MANUAL

PS10P, PS12P & PS15P

TYPE: YS1111

WEB ACCESS: <http://www.yorkville.com>

WORLD HEADQUARTERS CANADA

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

Voice: (905) 837-8481
Fax: (905) 837-8746

U.S.A.

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

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



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.



CAUTION A/V/S
RISK OF ELECTRIC SHOCK
DO NOT OPEN

**RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR**

Caution: hot surface
Attention: surface chaude



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!

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 A L'INTERIEUR SEULEMENT**

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 ground. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Hazards

Do not defeat the safety purpose of the polarized or grounding-type plug. 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. 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.

Veillez Lire le Manuel: Il contient des informations qui devraient étre comprises avant l'opération de votre appareil.

Conservez. Gardez S.V.P. ces instructions pour consultations ultérieures et observez tous les avertissements.

Nettoyez seulement avec le tissu sec.

Emballage: Conservez la boîte au cas où l'appareil devait étre 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!*

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 étre 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 étre prises afin d'éviter que le système de mise à la terre de l'appareil ne soit déséquilibré. Un appareil construit selon les normes de CLASS I devrait étre 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.

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 vendus 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. Note: L'utilisation prolongée des écouteurs à un volume élevé peut avoir des conséquences néfastes sur la santé sur vos oreilles.

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appareil ne doit pas étre exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit étre 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 câblages extérieurs connectés à ces dispositifs de connection extérieure doivent étre effectués par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'Alimentation

Ne pas enlever le dispositif de sécurité sur la prise polarisée ou la prise avec tige de mise à la masse du cordon d'alimentation. Une prise polarisée dispose de deux lames dont une plus large que l'autre. Une prise avec tige de mise à la masse dispose de deux lames en plus d'une troisième tige qui connecte à la masse. La lame plus large ou la tige de mise à la masse est prévu pour votre sécurité. La prise murale est désuète si elle n'est pas conçue pour accepter ce type de prise avec dispositif de sécurité. Dans ce cas, contactez un électricien pour faire remplacer la prise murale. Évitez 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.

Débranchez cet appareil durant les orages ou si utilisé pendant de longues périodes.

Service

Consultez un technicien qualifié pour l'entretien de votre appareil. L'entretien est nécessaire quand l'appareil a été endommagé de quelque façon que se soit. Par exemple si le cordon d'alimentation ou la prise du cordon sont endommagés, si il y a eu du liquide qui a été renversé à l'intérieur ou des objets sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, si il ne fonctionne pas normalement, ou a été échappé.

IMPORTANT SAFETY INSTRUCTIONS (UL60065)



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 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.

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.



The 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. 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 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. Utiliser 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.

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.**



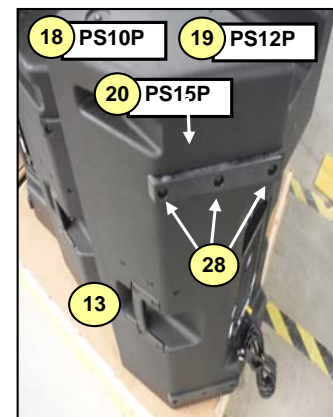
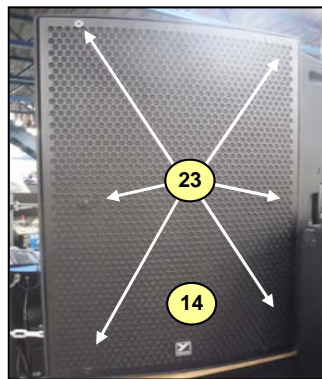
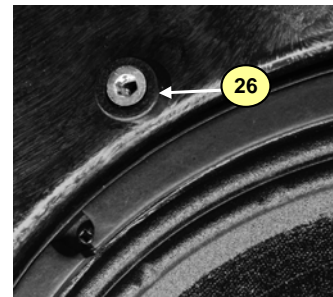
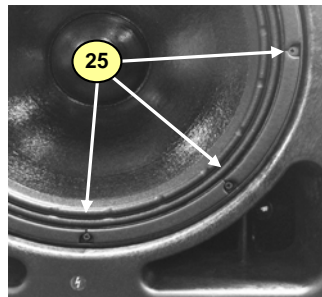
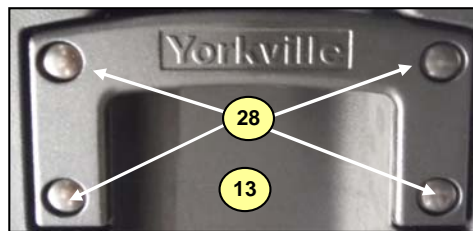
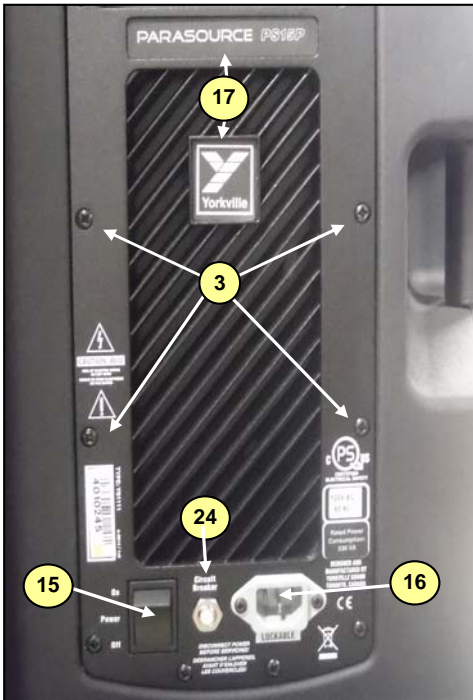
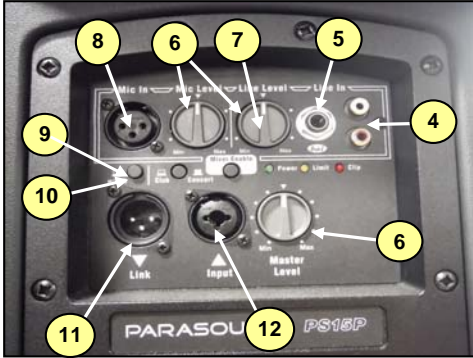
AVIS
**POUR PRÉVENIR LES RISQUES D'ÉLECTROCUTION,
NE PAS RACCORDER À L'ALIMENTATION ÉLECTRIQUE ALORS
QUE LA GRILLE EST RETIRÉE.**





PS10P•PS12P•PS15P Paraline Powered Speaker Enclosure

1 CAST CHASSIS



27 Speaker Stand Adapter
Not Shown

#	Part#	Description	qty
Labeled Components			
1	Z9914	PSAMP CAST CHASSIS	1
2	3074	POWER CORD 3M V-LOCK (N.A)	1
3	9417SS	#8 X 3/4 SS PAN QUAD PLASTITE BO&W	14
4	3466	RCA DUAL PCB MT VERT GOLD 24MM	1
5	4063	1/4IN ISO JCK PCMT VT STER RT SWT	1
6	4459	.10K B LIN 9MM DET HI TORQ P32	2
7	8653	LOW PROFILE POINTER AT 12 KNOB	3
8	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	1
9	3522	DPDT MINI PC VERT SNP ALT	3
10	8637	ROUND PUSH BUTTON 1/4" BLK 24MM	3
11	4100	XLR MALE PCB MT VERT	1
12	4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	1
13	10010	CAST HANDLE PS10P/PS12P/PS15P	2 or 3
14	8206	YORKVILLE LOGO METALPHOTO	1
15	4184	DPST ROKR SW QUIK 250" AC/PWR IEC6	1
16	4088	RECEPTACLE-V-LOCK INLET	1
17	Z1479	YORKVILLE LOGO 1.23 X 1.23 LEXAN	1
18	8118	PS10P SKID PAD 1/2"X 1 1/4"X 5 7/8"	2
19	8119	PS12P SKID PAD 1/2"X 1 1/4"X 6 3/4"	2
20	8120	PS15P SKID PAD 1/2"X 1 1/4"X 9 1/2"	2
21	8116	RUBBER FOOT 0.750"X2.500 PS SERIES	20
22	8117	RUBBER FOOT 0.620"X1.500" PS SERIES	2
23	8935	1/4-20 X 23MM JOINT CONN. BOLT B/O	6
24	2491	10.00 AMP CIRCUIT BREAKER TE	1
25	9421SS	SPEAKER SCREW	8
26	8938	INSERT NUT	6
27	8483	ADAPTOR,SPEAKER STAND,METAL,BLACK	1
28	9422SS	1/4-20X1X1/4 SS CARRIAGE BOLT	20 tot

PS10P Parts List 1/20/2015

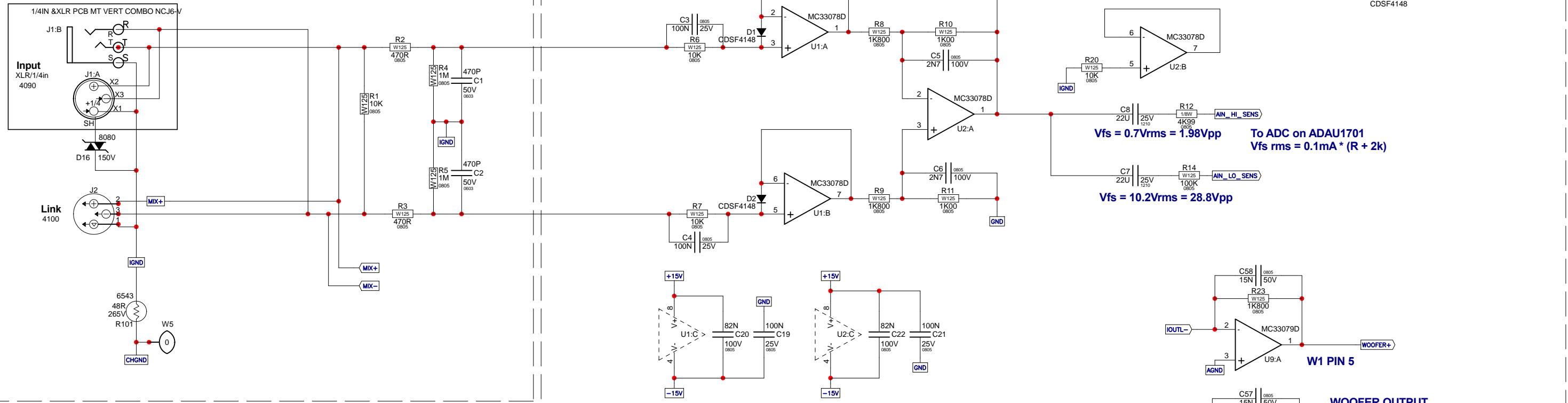
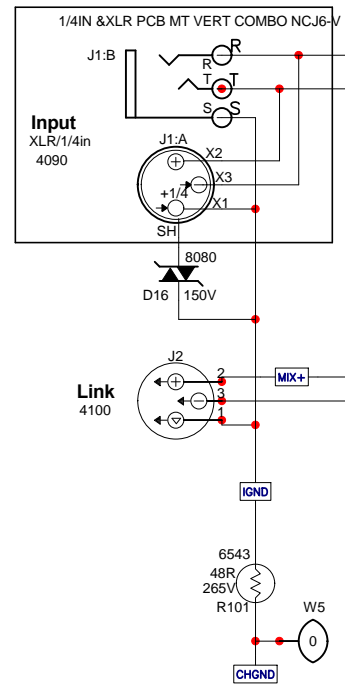
YS #	Description	Qty.	YS #	Description	Qty.
6405	RED 3MM LED 2V1 20MA DIFFUSD	1	4146	3 PIN POWER PIN HEADER MALE POLZED	1
6400	YEL 3MM LED 2V1 20MA DIFFUSD	1	4169	14.0MH COIL 4AMP INPUT COM MODE	2
6408	GRN 3MM LED 2V2 20MA DIFFUSD	1	6620CORE	T157-2 CHOKE CORE 1.595" OD	2
6543	48R 265V RESETTABLE THERMISTOR PTC	1	8607	3/16X1/8X.06ID NYLON SPACER	3
4459	.10K B LIN 9MM DET HI TORQ P32	3	9067	1/8X5/16XID.64 NYLON SPACER	8
4063	1/4IN ISO JCK PCMT VT STER RT SWT	1	8629	10-32X1/4 PHENOLIC SPACER	1
3466	RCA DUAL PCB MT VERT GOLD 24MM	1	1226	XFMR O/P 400W PQ40/40	1
4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	1	9914	PSAMP SERIES CAST CHASSIS	1
4100	XLR MALE PCB MT VERT	2			
4168	04 CIR DUAL ROW HDR HT 0.1 RA	1			
4166	06 CIR DUAL ROW HDR HT 0.1 RA	1			
4019	10 CIR SOCKT DIL VT 0.1	1			
3696	RELAY 1C 02AMP DC24 006MA PC-S	1			
4007	.9 LED CUSTOM SPACER	3			
3522	DPDT MINI PC VERT SNP ALT	3			
3803	NYLON SECUR-A-TACH MINI PLASTIC TIE	1			
9877	METAL GRILL CLOTH BACKING 72" WIDE	2			
PS10PCABINET	10"PS SET W/POWER BACK BLACK PLASTC	1			
3601	RING TERMINAL 16AWG WIRE & #8 SCREW	13			
4177	CONNECTOR HOUSING 4 POSITION 2X2	1			
8889	RUBBER GROMMET #2183-034-BLK	5			
3575	CONN PLUG 3 POS. .084" V-2 FEMALE	1			
4093	CONN PLUG 2 POS. .084" V-2 FEMALE	2			
4175	CONNECTOR SOCKET TERMINAL 18-22AWG	10			
8483	ADAPTOR,SPEAKER STAND,METAL,BLACK	7			
10010	CAST HANDLE PS10P/PS12P/PS15P	2			
7393	.8R 30W 1.00" DRIVER BMS	1			
8933	1/4-20 INSIDE 7/16-20 UNF FLAT ALLEN	5			
9000	ADAPTOR FLANGE FOR HORN	1			
3426	8 3/16 SJT AC LINE CORD REMOVE-CSA	2			
8206	YORKVILLE LOGO METAL PHOTO	1			
8938	1/4-20X10MM INSERT NUT TYPE D	29			
8934	7/16-20 UNF HEX NUT GRD 5 CLEAR ZNC	5			
9417SS	#8X3/4 SS PAN QUAD PLASTITE BO&W	14			
9421SS	#10X3/4 SS PAN QUAD PLSTITE BO&W	12			
9034	1/4X1X1/4 PAN PHIL PLASTITE BO&W	16			
9404SS	1/4-20X23MM SS JOINT CONN BOLT BO	6			
9418SS	1/4-20X3/4 SS FLAT PHIL MS BO&W	4			
9422SS	1/4-20X1X1/4 SS CARRIAGE BOLT BO&	20			
7559	10" 4R 300WPGM CER SPEAKER	1			
8489	1/4-20 SPLIT WASHER BLACK OXIDE	2			
8995	3/8 STEEL FLAT WASHER, BLACK	5			
8492	7/16" SPLIT LOCK WASHER CLEAR ZINC	5			
8817	#10 FOR 3/16 BOLT FLAT WASHER	16			
8947	1.2500DX1/4ID FENDER WASHER ZINC	16			
2491	10.00 AMP CIRCUIT BREAKER TE	1			
4136	2POS XSISTOR TO220SPRING	6			
3810	4" NYLON CABLE TIE	3			
4178	SHUNT JUMPER .1" BLACK GOLD	1			
8653	LOW PROFILE POINTER AT 12 KNOB	6			
4180	SILPAD 1500ST 1.4 X2.750 BERQUIST	4			
4139	3" 10C-28AWG RIBBON DIL SOCKETS	1			
9001	4-40X5/16 PAN PH MS ZN C/W STAR	11			
9975	#4X1/2 PAN PHIL TYPE A B.O.&	7			
8832	6-32X1/4 PAN PH TAPTITE JS500	12			
8801	6-32X3/8 PAN PH TAPTITE JS500	15			
8796	6-32X5/8 PAN PH TAPTITE ZINC	4			
4088	RECEPTACLE:V-LOCK INLET	1			
3751	5/16 SNAP IN SPACER RICHCO	4			
8482	3/8 1D FLAT WASHER	1			
8485	#6 SPLIT WASHER ZINC	3			
8820	#8 FLAT WASHER JS500	4			
4184	DPST ROKR SW QUIK 250" AC/PWR IEC6	1			
6845	MUR1640CTG 400V 8A DIODE DUAL CC	3			
6975	SPW35N60CFD MOSFET N-CN 600V TO-247	5			
6633	.2R5 25% 5A INRSH CURR LIM 12MM	2			
6619	.10K 5% THERMISTOR VISH NTC	1			
6545	.1N 250V 20%CAP BLK 'Y' 10MM AC	4			
5516	.47N 2000V 10%CAP AXL POLYPROP BULK	1			
5827	150N 250V 20%CAP BLK 'X2' 15MM AC	2			
5972	680N 400V 5%CAP BLK RAD POLY FLM	3			
5262	.1U 275V 20%CAP BLK 'X2'26.0MM AC	1			
5635	1000U 35V 20%CAP BLK RADIAL ELECT	2			
5663	1200U 200V 20%CAP BLK 25X40MM	2			
5910	4700U 100V 10%CAP BLK 35X40MM 4PS	2			
3021	15UH COIL T175-2 29T 19AWG LITZ	1			
6620	.64UH CHOKE 68T20AWG/T157-2	2			
4019	10 CIR SOCKT DIL VT 0.1	1			
4167	2X2PIN 4.2MM RA HEADER VAL-U-LOK	1			
4162	2 PIN POWER PIN HEADER MALE POLZED	2			

PS12P Parts List 1/22/2015

YS #	Description	Qty.	YS #	Description	Qty.
6405	RED 3MM LED 2V1 20MA DIFFUSD	1	7558	12" 8R 600WPGM CER SPEAKER	1
6400	YEL 3MM LED 2V1 20MA DIFFUSD	1	8489	1/4-20 SPLIT WASHER BLACK OXIDE	2
6408	GRN 3MM LED 2V2 20MA DIFFUSD	1	8995	3/8 STEEL FLAT WASHER, BLACK	6
6543	48R 265V RESETTABLE THERMISTOR PTC	1	8492	7/16" SPLIT LOCK WASHER CLEAR ZINC	6
4459	.10K B LIN 9MM DET HI TORQ P32	3	8817	#10 FOR 3/16 BOLT FLAT WASHER	20
4063	1/4IN ISO JCK PCMT VT STER RT SWT	1	8947	1.250ODX1/4ID FENDER WASHER ZINC	16
3466	RCA DUAL PCB MT VERT GOLD 24MM	1	9914	PSAMP SERIES CAST CHASSIS	1
4090	1/4IN & XLR PCB MT VERT COMBO NCJ6-V	1			
4100	XLR MALE PCB MT VERT	2			
4168	04 CIR DUAL ROW HDR HT 0.1 RA	1			
4166	06 CIR DUAL ROW HDR HT 0.1 RA	1			
4019	10 CIR SOCKET DIL VT 0.1	1			
3696	RELAY 1C 02AMP DC24 006MA PC-S	1			
4007	.9 LED CUSTOM SPACER	3			
3522	DPDT MINI PC VERT SNP ALT	3			
3601	RING TERMINAL 16AWG WIRE & #8 SCREW	13			
4177	CONNECTOR HOUSING 4 POSITION 2X2	1			
8889	RUBBER GROMMET #2183-034-BLK	5			
3575	CONN PLUG 3 POS. .084" V-2 FEMALE	1			
4093	CONN PLUG 2 POS. .084" V-2 FEMALE	2			
4175	CONNECTOR SOCKET TERMINAL 18-22AWG	10			
2491	10.00 AMP CIRCUIT BREAKER TE	1			
4136	2POS XSISTOR TO220SPRING	6			
4178	SHUNT JUMPER .1" BLACK GOLD	1			
8653	LOW PROFILE POINTER AT 12 KNOB	6			
4180	SILPAD 1500ST 1.4 X2.750 BERQUIST	5			
4139	3" 10C-28AWG RIBBON DIL SOCKETS	1			
9001	4-40X5/16 PAN PH MS ZN C/W STAR	11			
9975	#4X1/2 PAN PHIL TYPE A B.O.&	7			
8832	6-32X1/4 PAN PH TAPTITE JS500	12			
8801	6-32X3/8 PAN PH TAPTITE JS500	19			
8796	6-32X5/8 PAN PH TAPTITE ZINC	4			
4088	RECEPTACLE-V-LOCK INLET	1			
3751	5/16 SNAP IN SPACER RICHCO	4			
8482	3/8 1D FLAT WASHER	1			
8485	#6 SPLIT WASHER ZINC	3			
8820	#8 FLAT WASHER JS500	4			
4184	DPST ROKR SW QUIK 250" AC/PWR IEC6	1			
6845	MUR1640CTG 400V 8A DIODE DUAL CC	3			
6975	SPW35N60CFD MOSFET N-CN 600V TO-247	7			
6633	.2R5 25% 5A INRSH CURR LIM 12MM	2			
6619	.10K 5% THERMISTOR VISH NTC	1			
6545	.1N 250V 20%CAP BLK Y 10MM AC	4			
5516	.47N 2000V 10%CAP AXL POLYPROP BULK	1			
5827	150N 250V 20%CAP BLK X2 15MM AC	2			
5972	680N 400V 5%CAP BLK RAD POLY FLM	4			
5262	.1U 275V 20%CAP BLK X2/26.0MM AC	1			
5635	1000U 35V 20%CAP BLK RADIAL ELECT	2			
5663	1200U 200V 20%CAP BLK 25X40MM	2			
5910	4700U 100V 10%CAP BLK 35X40MM 4PS	2			
3021	15UH COIL T175-2 29T 19AWG LITZ	1			
6620	.64UH CHOKE 68T20AWG/T157-2	3			
4019	10 CIR SOCKET DIL VT 0.1	1			
4167	2X2PIN 4.2MM RA HEADER VAL-U-LOK	1			
4162	2 PIN POWER PIN HEADER MALE POLZED	2			
4146	3 PIN POWER PIN HEADER MALE POLZED	1			
4169	14.0MH COIL 4AMP INPUT COM MODE	2			
6620CORE	T157-2 CHOKE CORE 1.595" OD	3			
8607	3/16X1/8X.06ID NYLON SPACER	3			
3751	5/16 SNAP IN SPACER RICHCO	4			
9067	1/8X5/16XID.64 NYLON SPACER	10			
8629	10-32X1/4 PHENOLIC SPACER	1			
1226	XFMR O/P 400W PQ40/40	1			
8483	ADAPTOR,SPEAKER STAND,METAL,BLACK	7			
10010	CAST HANDLE PS10P/PS12P/PS15P	3			
7393	.8R 30W 1.00" DRIVER BMS	1			
8933	1/4-20 INSIDE 7/16-20 UNF FLAT ALLEN	6			
9000	ADAPTOR FLANGE FOR HORN	1			
3426	8' 3/16 SJT AC LINE CORD REMOV-B-CSA	2			
8206	YORKVILLE LOGO METAL PHOTO	1			
8938	1/4-20X10MM INSERT NUT TYPE D	34			
8934	7/16-20 UNF HEX NUT GRD 5 CLEAR ZNC	6			
PS12PCABINET	12"PS SET W/POWER BACK BLACK PLASTC	1			
9417SS	#8X3/4 SS PAN QUAD PLASTITE BO&W	14			
9421SS	#10X3/4 SS PAN QUAD PLSTITE BO&W	12			
9034	1/4X1X1/4 PAN PHIL PLASTITE BO&W	26			
9404SS	1/4-20X23MM SS JOINT CONN BOLT BO	6			
9418SS	1/4-20X3/4 SS FLAT PHIL MS BO&W	4			
9422SS	1/4-20X1X1/4 SS CARRIAGE BOLT BO&	24			
8879	M5X10 DIN 7985 QUAD ZINC SCREW	2			

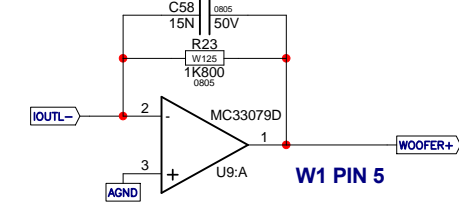
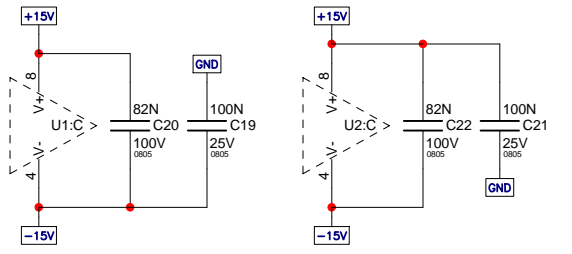
PS15P Parts List 1/22/2015

YS #	Description	Qty.	YS #	Description	Qty.
6405	RED 3MM LED 2V1 20MA DIFFUSD	1	6620CORE	T157-2 CHOKE CORE 1.595" OD	3
6400	YEL 3MM LED 2V1 20MA DIFFUSD	1	8607	3/16X1/8X.06ID NYLON SPACER	3
6408	GRN 3MM LED 2V2 20MA DIFFUSD	1	3751	5/16 SNAP IN SPACER RICHCO	4
6543	48R 265V RESETTABLE THERMISTOR PTC	1	9067	1/8X5/16XID.64 NYLON SPACER	10
4459	10K B LIN 9MM DET HI TORQ P32	3	8629	10-32X1/4 PHENOLIC SPACER	1
4063	1/4IN ISO JCK PCMT VT STER RT SWT	1	1226	XFMR O/P 400W PQ40/40	1
3466	RCA DUAL PCB MT VERT GOLD 24MM	1	9914	PSAMP SERIES CAST CHASSIS	1
4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	1			
4100	XLR MALE PCB MT VERT	2			
4168	04 CIR DUAL ROW HDR HT 0.1 RA	1			
4166	06 CIR DUAL ROW HDR HT 0.1 RA	1			
4019	10 CIR SOCKET DIL VT 0.1	1			
3696	RELAY 1C 02AMP DC24 006MA PC-S	1			
4007	.9 LED CUSTOM SPACER	3			
3522	DPDT MINI PC VERT SNP ALT	3			
3803	NYLON SECUR-A-TACH MINI PLASTIC TIE	1			
3601	RING TERMINAL 16AWG WIRE & #8 SCREW	13			
4177	CONNECTOR HOUSING 4 POSITION 2X2	1			
8889	RUBBER GROMMET #2183-034-BLK	5			
3575	CONN PLUG 3 POS. .084" V-2 FEMALE	1			
4093	CONN PLUG 2 POS. .084" V-2 FEMALE	2			
4175	CONNECTOR SOCKET TERMINAL 18-22AWG	10			
8483	ADAPTOR,SPEAKER STAND,METAL,BLACK	7			
10010	CAST HANDLE PS10P/PS12P/PS15P	3			
7393	.8R 30W 1.00" DRIVER BMS	1			
8933	1/4-20 INSIDE 7/16-20 UNF FLATALLEN	6			
9000	ADAPTOR FLANGE FOR HORN	1			
3426	8' 3/16 SJT AC LINE CORD REMOV-B-CSA	2			
8206	YORKVILLE LOGO METALPHOTO	1			
8938	1/4-20X10MM INSERT NUT TYPE D	34			
8934	7/16-20 UNF HEX NUT GRD 5 CLEAR ZNC	6			
PS15PCABINET	15 PS SET W/POWER BACK BLACK PLASTC	1			
9417SS	#8X3/4 SS PAN QUAD PLASTITE BO&W	14			
9421SS	#10X3/4 SS PAN QUAD PLSTITE BO&W	12			
9034	1/4X1X1/4 PAN PHIL PLASTITE BO&W	30			
9404SS	1/4-20X23MM SS JOINT CONN BOLT BO	6			
9418SS	1/4-20X3/4 SS FLAT PHIL MS BO&W	4			
9422SS	1/4-20X1X1/4 SS CARRIAGE BOLT BO&	24			
8879	MSX10 DIN 7985 QUAD ZINC SCREW	2			
7541	15" 8R 750WPGM SPEAKER CELESTION	1			
8489	1/4-20 SPLIT WASHER BLACK OXIDE	2			
8995	3/8 STEEL FLAT WASHER,BLACK	6			
8492	7/16" SPLIT LOCK WASHER CLEAR ZINC	6			
8817	#10 FOR 3/16 BOLT FLAT WASHER	20			
8947	1.2500DX1/4ID FENDER WASHER ZINC	16			
2491	10.00 AMP CIRCUIT BREAKER TE	1			
4136	2POS XSISTOR TO220SPRING	6			
8653	LOW PROFILE POINTER AT 12 KNOB	6			
4180	SILPAD 1500ST 1.4 X2.750 BERQUIST	5			
4139	3" 10C-28AWG RIBBON DIL SOCKETS	1			
9001	4-40X5/16 PAN PH MS ZN C/W STAR	11			
9975	#4X1/2 PAN PHIL TYPE A B.O.&	7			
8832	6-32X1/4 PAN PH TAPTITE JS500	12			
8801	6-32X3/8 PAN PH TAPTITE JS500	19			
8796	6-32X5/8 PAN PH TAPTITE ZINC	4			
4088	RECEPTACLE:V-LOCK INLET	1			
3751	5/16 SNAP IN SPACER RICHCO	4			
8482	3/8 1D FLAT WASHER	1			
8485	#6 SPLIT WASHER ZINC	3			
8820	#8 FLAT WASHER JS500	4			
4184	DPST ROKR SW QUIK 250" AC/PWR IEC6	1			
6845	MUR1640CTG 400V 8A DIODE DUAL CC	3			
6975	SPW35N60CFD MOSFET N-CN 600V TO-247	7			
6633	2R5 25% 5A INRSH CURR LIM 12MM	2			
6619	10K 5% THERMISTOR VISH NTC	1			
6545	1N 250V 20%CAP BLK 'Y' 10MM AC	4			
5516	.47N 2000V 10%CAP AXL POLYPROP BULK	1			
5827	150N 250V 20%CAP BLK 'X2' 15MM AC	2			
5972	680N 400V 5%CAP BLK RAD POLY FLM	4			
5262	1U 275V 20%CAP BLK 'X2'26.0MM AC	1			
5635	1000U 35V 20%CAP BLK RADIAL ELECT	2			
5663	1200U 200V 20%CAP BLK 25X40MM	2			
5910	4700U 100V 10%CAP BLK 35X40MM 4PS	2			
3021	15UH COIL T175-2 29T 19AWG LITZ	1			
6620	.64UH CHOKE 68T20AWG/T157-2	3			
4019	10 CIR SOCKET DIL VT 0.1	1			
4167	2X2PIN 4.2MM RA HEADER VAL-U-LOK	1			
4162	2 PIN POWER PIN HEADER MALE POLZED	2			
4146	3 PIN POWER PIN HEADER MALE POLZED	1			
4169	14.0MH COIL 4AMP INPUT COM MODE	2			

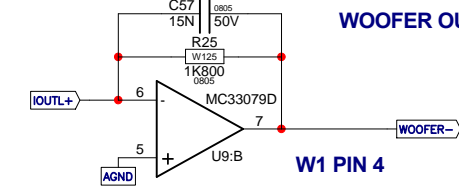


$V_{fs} = 0.7V_{rms} = 1.98V_{pp}$
 To ADC on ADAU1701
 $V_{fs\ rms} = 0.1mA * (R + 2k)$

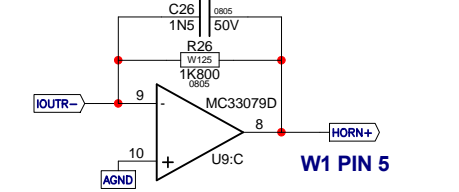
$V_{fs} = 10.2V_{rms} = 28.8V_{pp}$



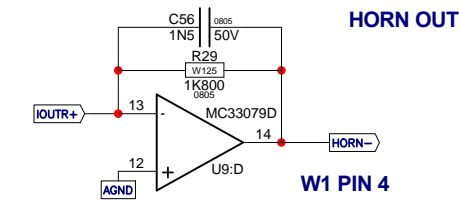
WOOFER OUTPUT



WOOFER-

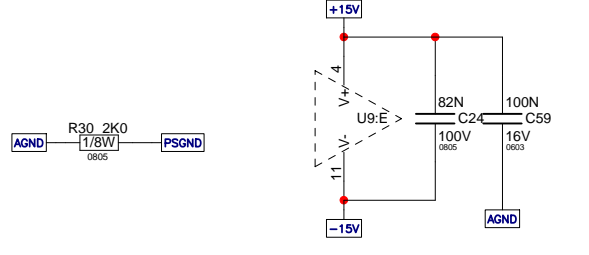
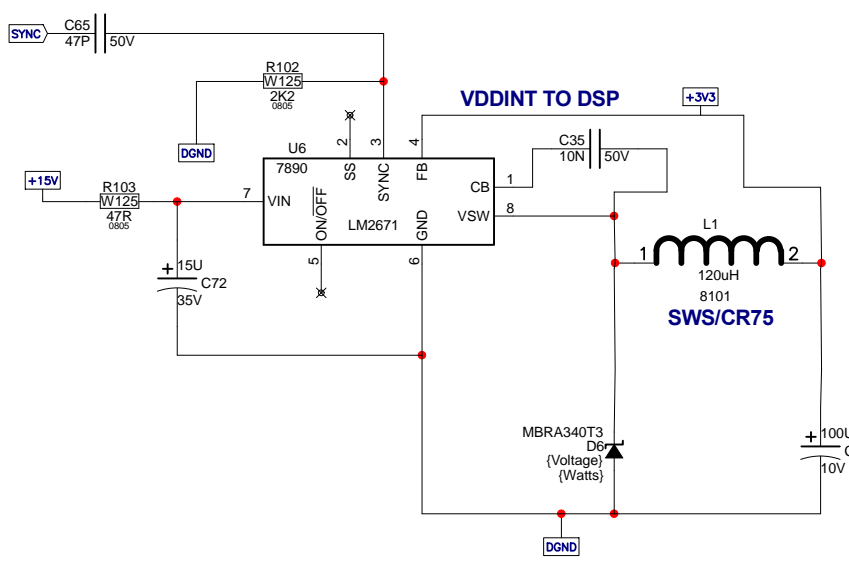


HORN OUTPUT

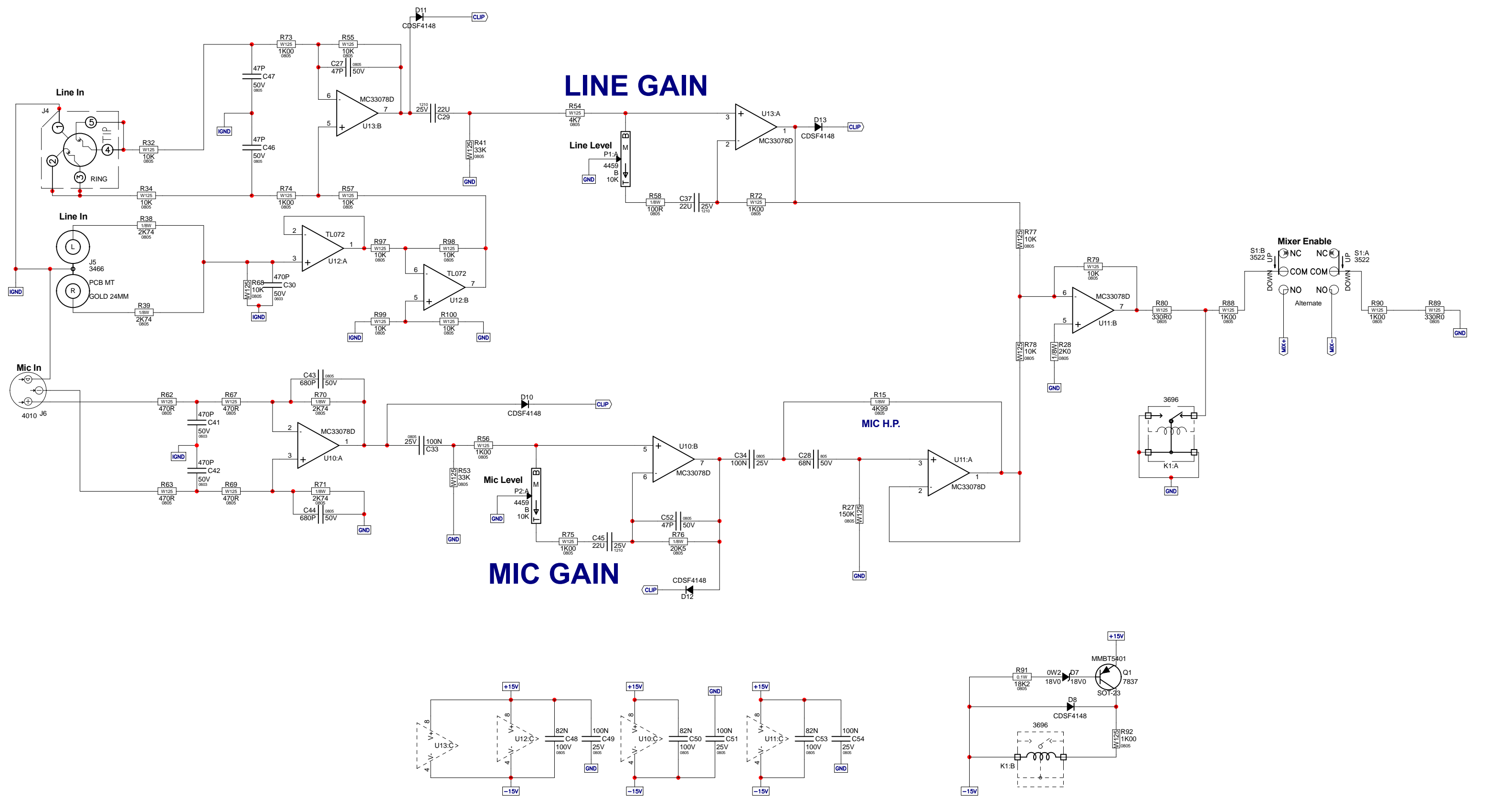


HORN-

LOW VOLTAGE SUPPLY



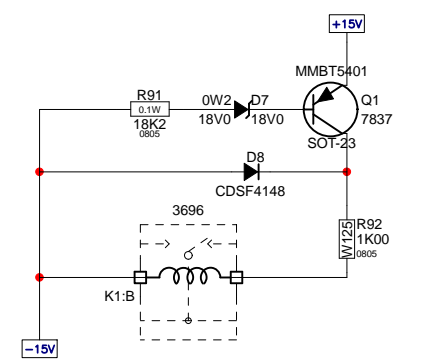
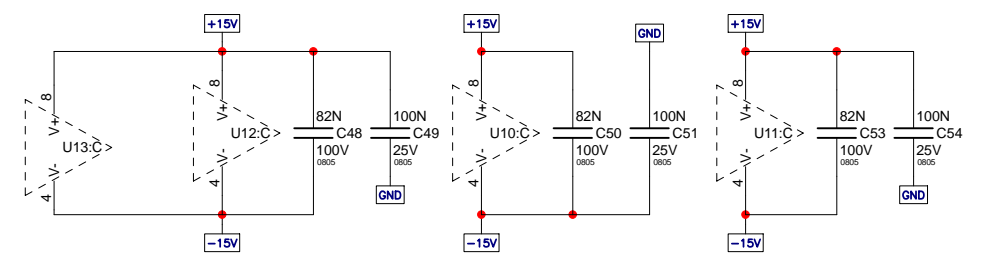
Product PS Preamp		
ANALOG	PCB# M1523	Sheet 1 of 4
Date: Thu Jul 18, 2013	Rev: V01	YsType: {Company Name}
Filename: M1523V01SCH.sch2006		

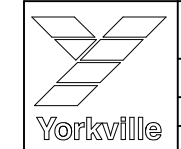
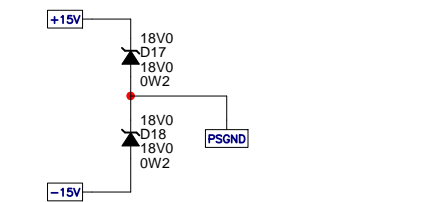
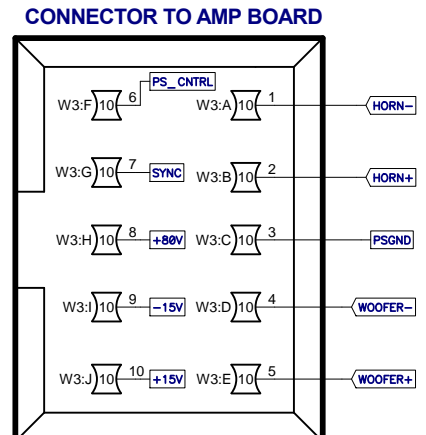
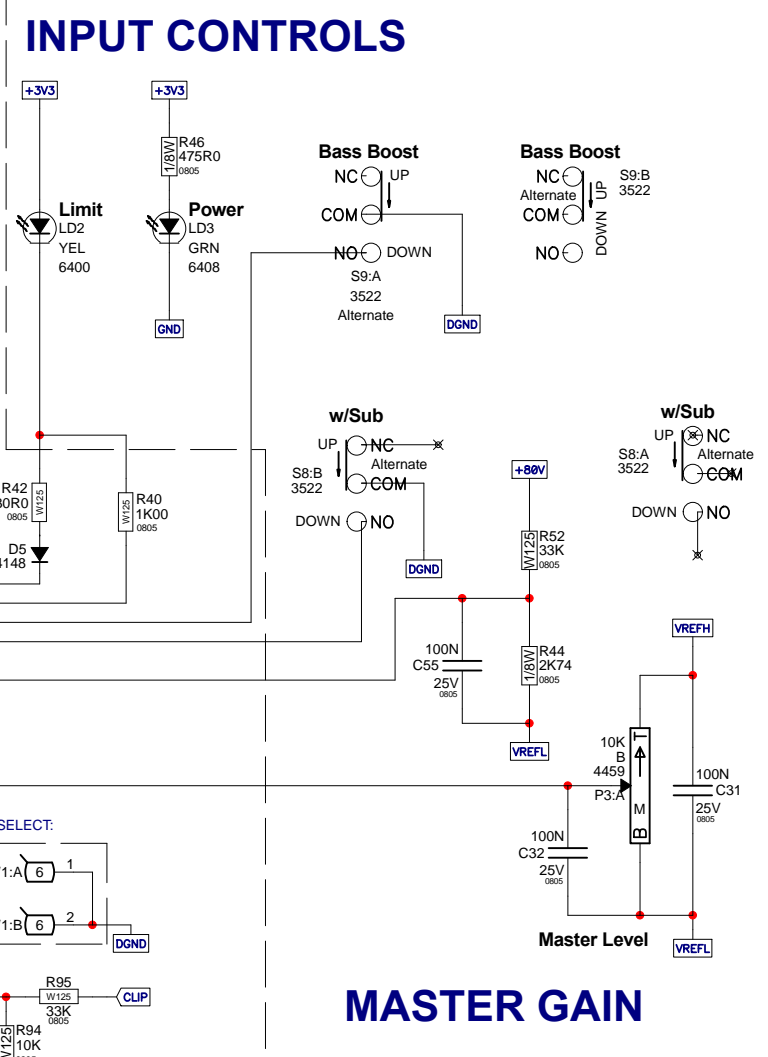
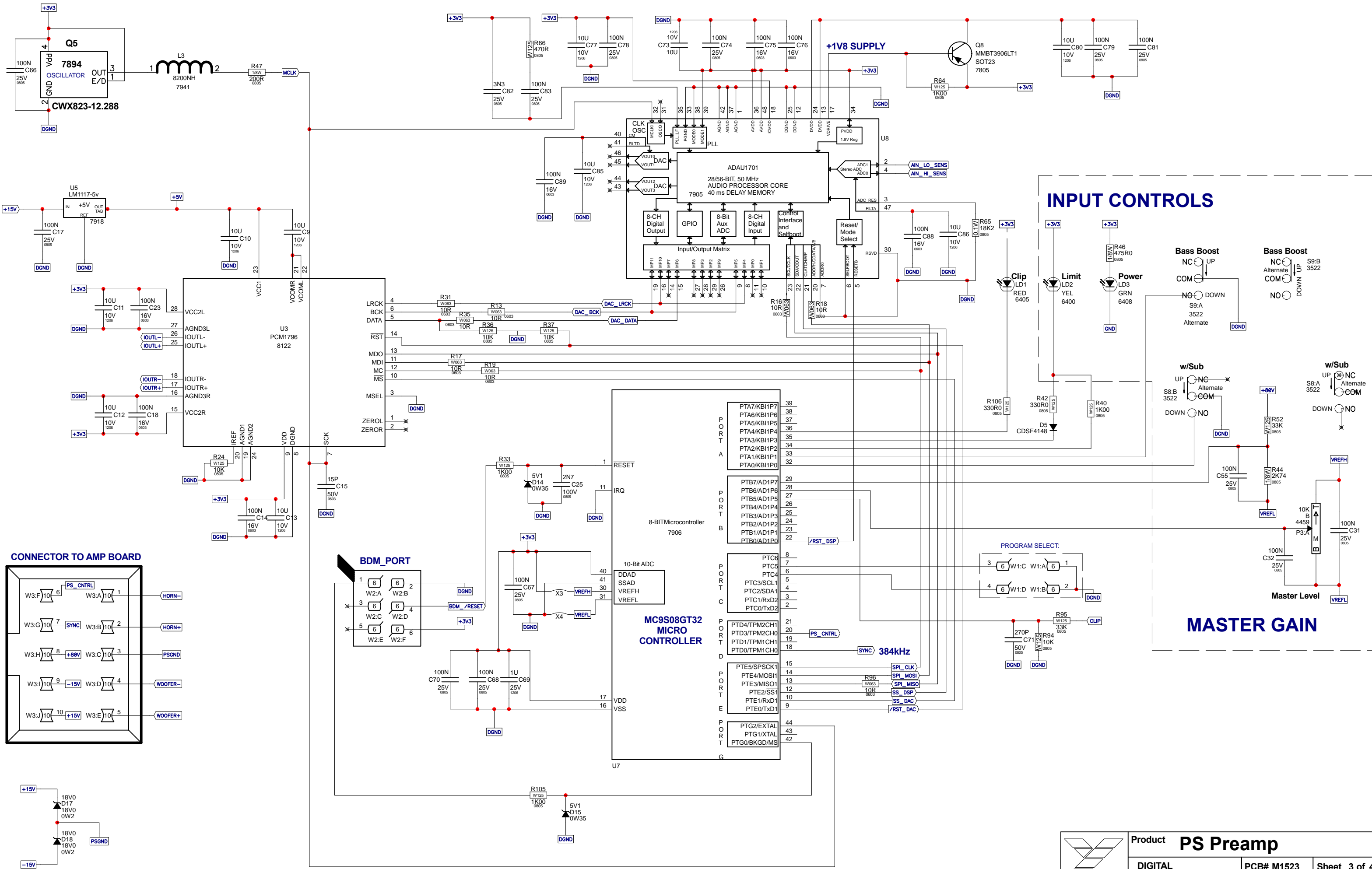


LINE GAIN

MIC H.P.

MIC GAIN





M1523 - DATABASE HISTORY

MODEL(S):- PS Preamp

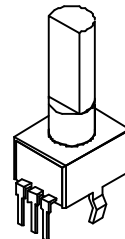
#	DATE	VER#	DESCRIPTION OF CHANGE
1	06-JUN-2013	V01	PC8549: values change R27, R95. See PC. GG
2	17-JUL-2013	.	PC8554: Change U12 to TL072 (YS#SM7669). - ML
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

POTENTIOMETERS AND KNOBS

M1523 - POTS LIST

MODEL(S):- PS Preamp

REF	FUNCTION	PART#	KNOB	STYLE
P1	Line Level	4459	8653	P32
P2	Mic Level	4459	8653	P32
P3	Master Level	4459	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



"STYLE_P32"



Product **PS Preamp**

ECO

PCB# M1523

Sheet 4 of 4

Date: Thu Jul 18, 2013

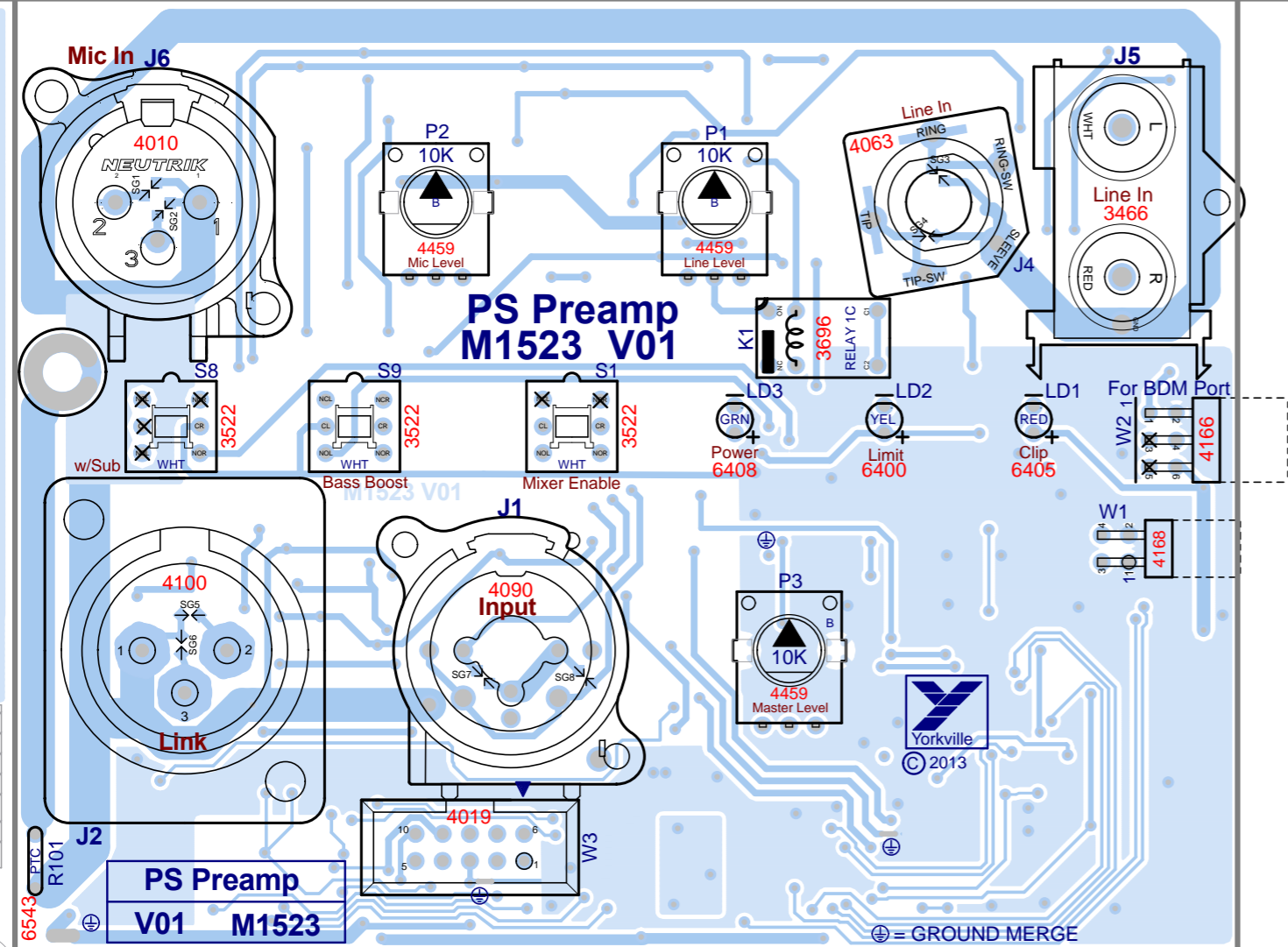
Rev: V01

YsType: {Company N

Filename: M1523V01SCH.sch2006

SCORE

BlankSize - 10000x8000

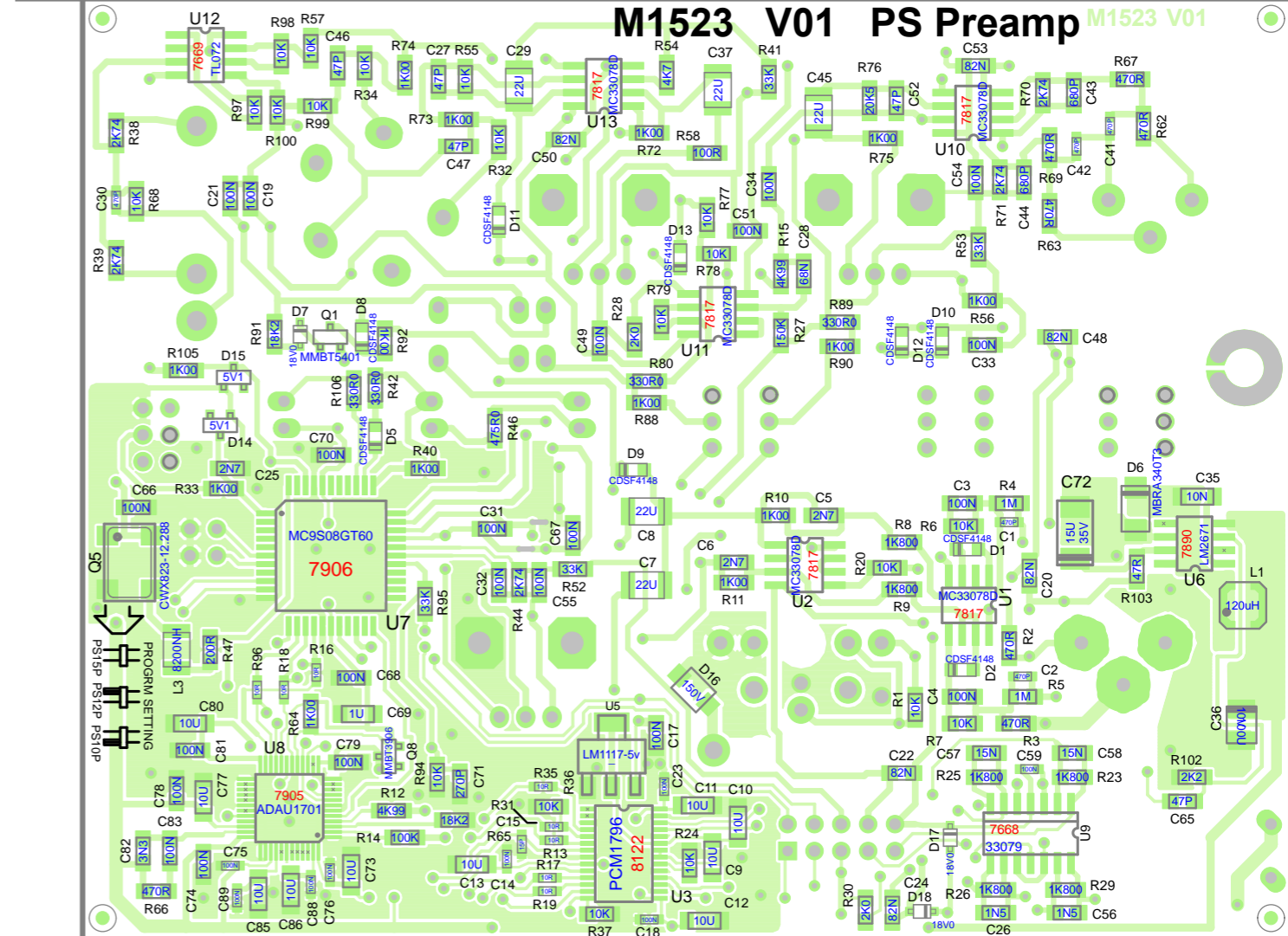


CLINCH ORIGIN

INSERT ORIGIN **M1523 V01**

SCORE

Top Side



SCORE

Flip Side

M1523 V01

SEE LAYOUT DOCUMENTATION



SEE LAYOUT DIAGRAM



M1523 V01

PRODUCTION NOTES

- 1. Adjust wave to proper settings and height to solder with SMT component heat shield.**
- 2. Keep all connectors flush mounted with a jig during wave soldering.**
- 3. Add 0.9" LED spacer (YS#4007) to LD1, LD2 and LD3.**



SEE LAYOUT DIAGRAM



M1523 - DATABASE HISTORY

MODEL(S):- PS Preamp

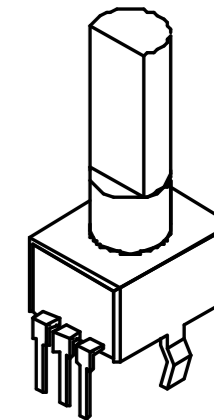
#	DATE	VER#	DESCRIPTION OF CHANGE
1	06-JUN-2013	V01	PC8549: values change R27, R95. See PC. GG
2	17-JUL-2013	.	PC8554: Change U12 to TL072 (YS#SM7669). - ML
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

POTENTIOMETERS AND KNOBS

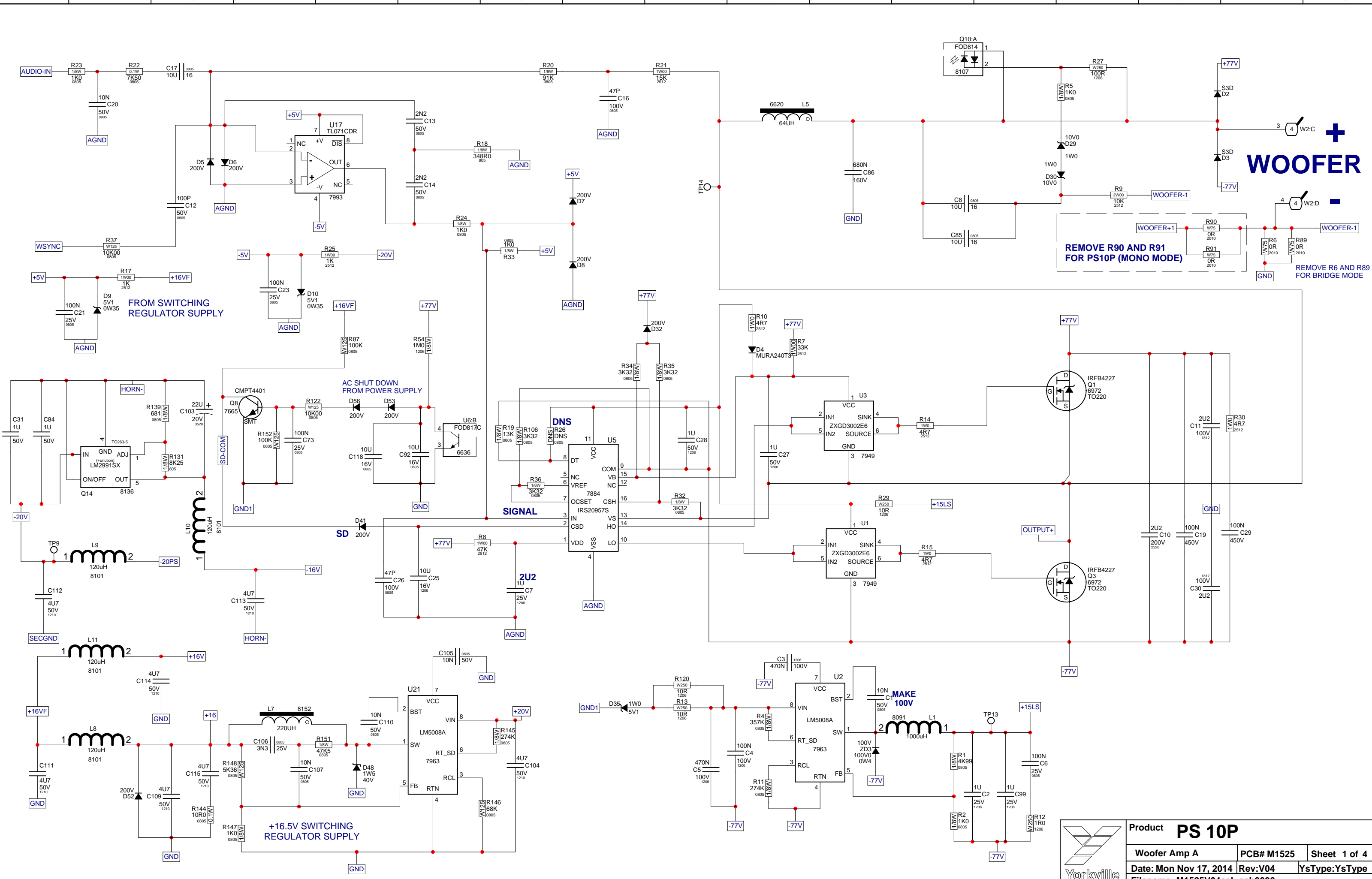
M1523 - POTS LIST


MODEL(S):- PS Preamp

REF	FUNCTION	PART#	KNOB	STYLE
P1	Line Level	4459	8653	P32
P2	Mic Level	4459	8653	P32
P3	Master Level	4459	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

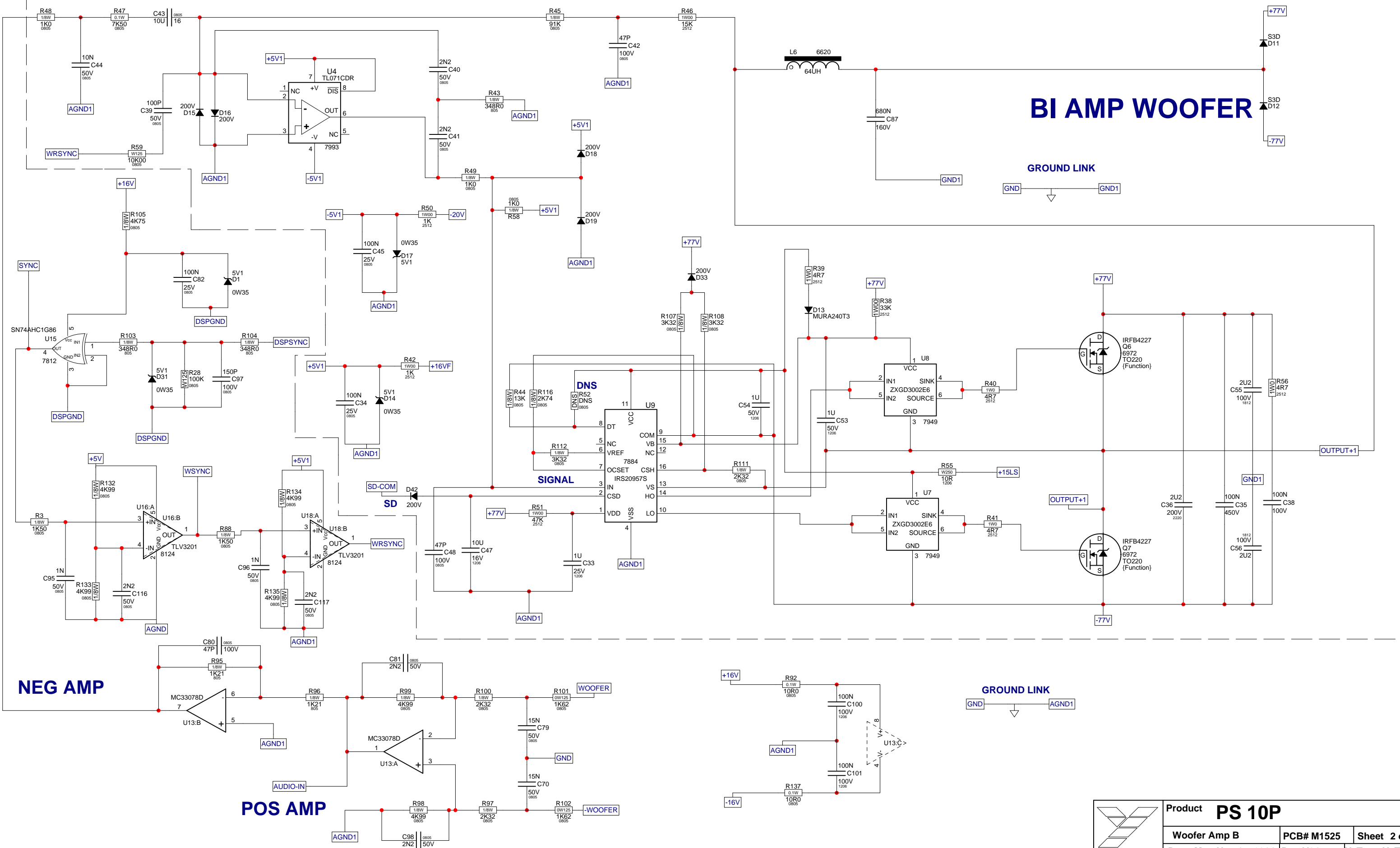


"STYLE_P32"



			Product PS 10P		
			Woofer Amp A	PCB# M1525	Sheet 1 of 4
Date: Mon Nov 17, 2014			Rev:V04		YsType:YsType
Filename: M1525V04sch.sch2006					

FOR MODEL PS10P PARTS INSIDE DASHED LINES ARE UNPLACED



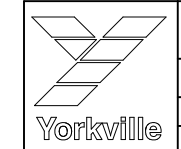
BI AMP WOOFER

GROUND LINK

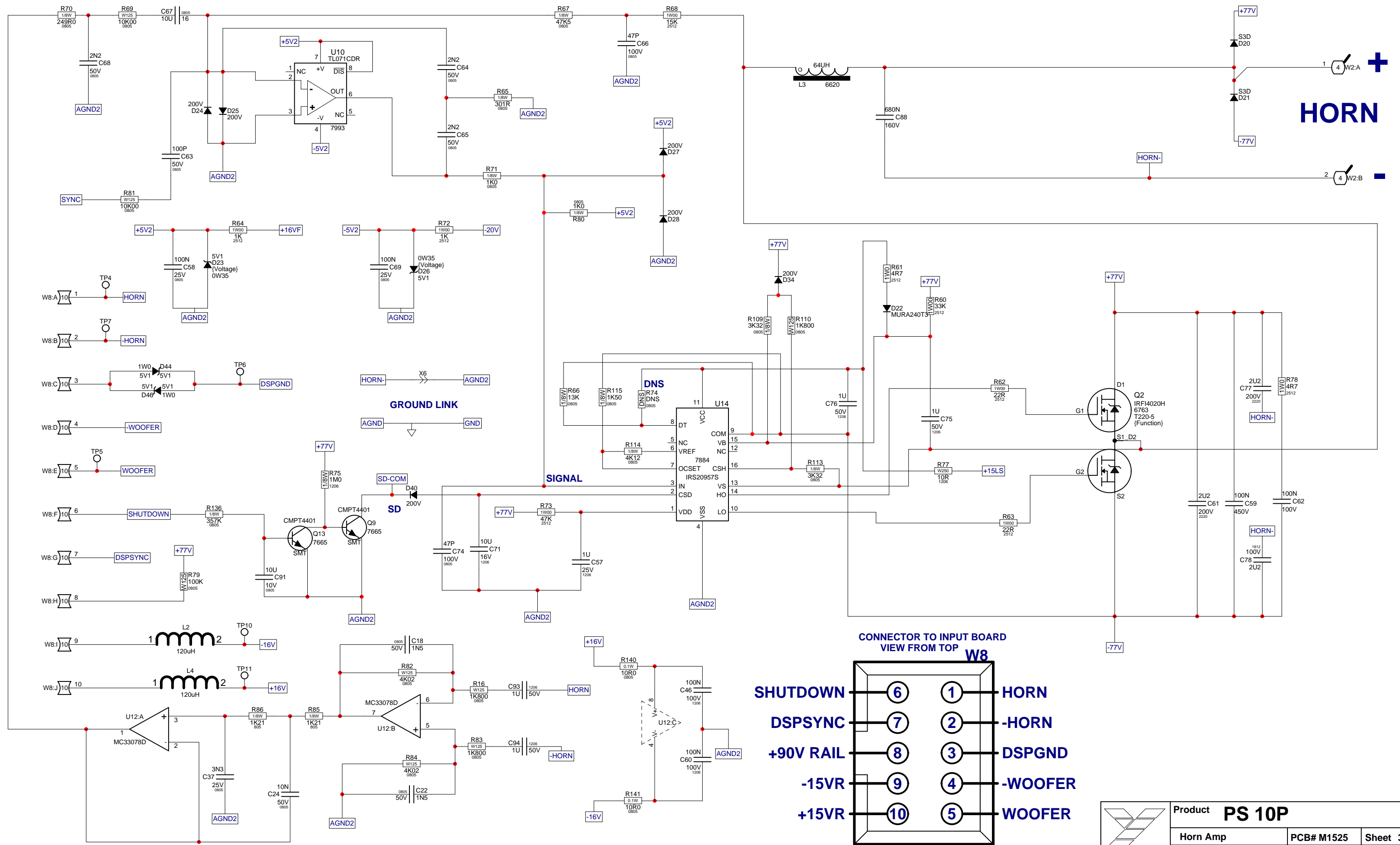
NEG AMP

POS AMP

GROUND LINK



Product PS 10P		
Woofers Amp B	PCB# M1525	Sheet 2 of 4
Date: Mon Nov 17, 2014	Rev: V04	YsType: YsType
Filename: M1525V04sch.sch2006		

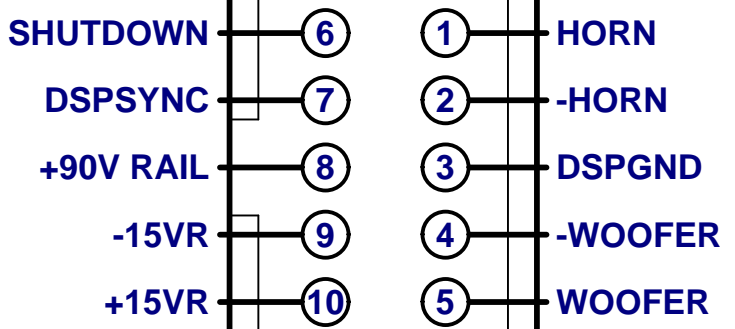


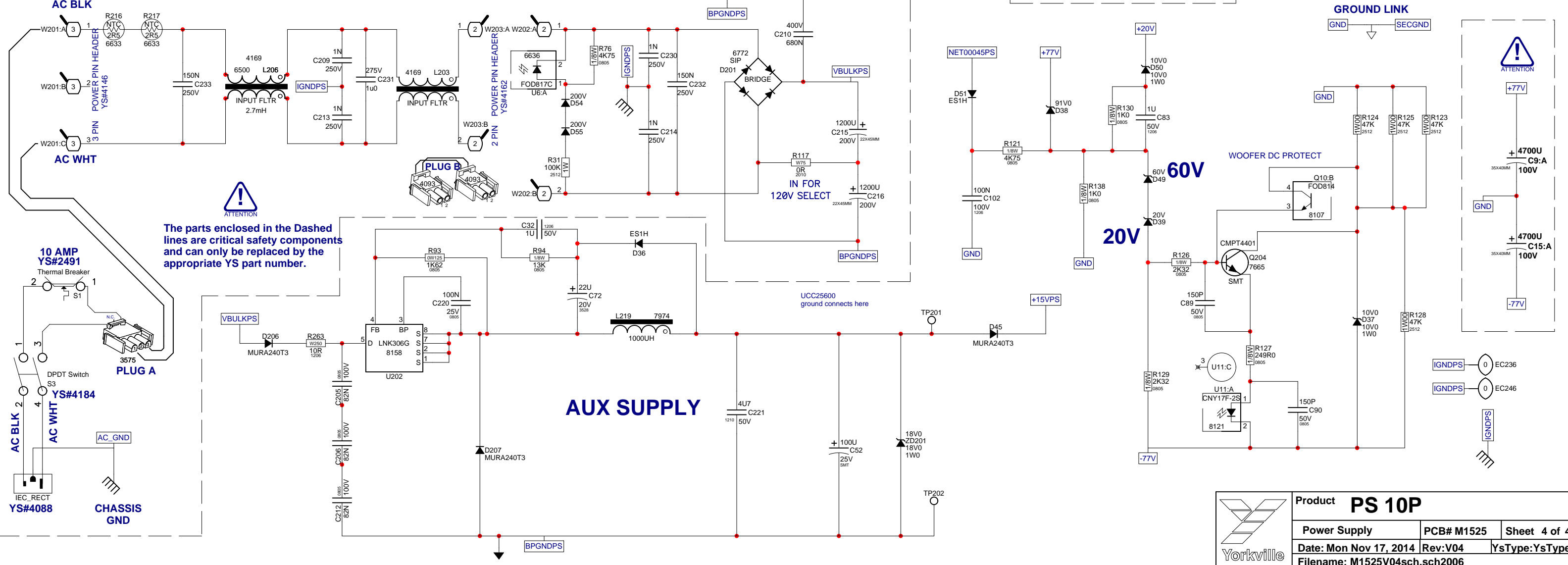
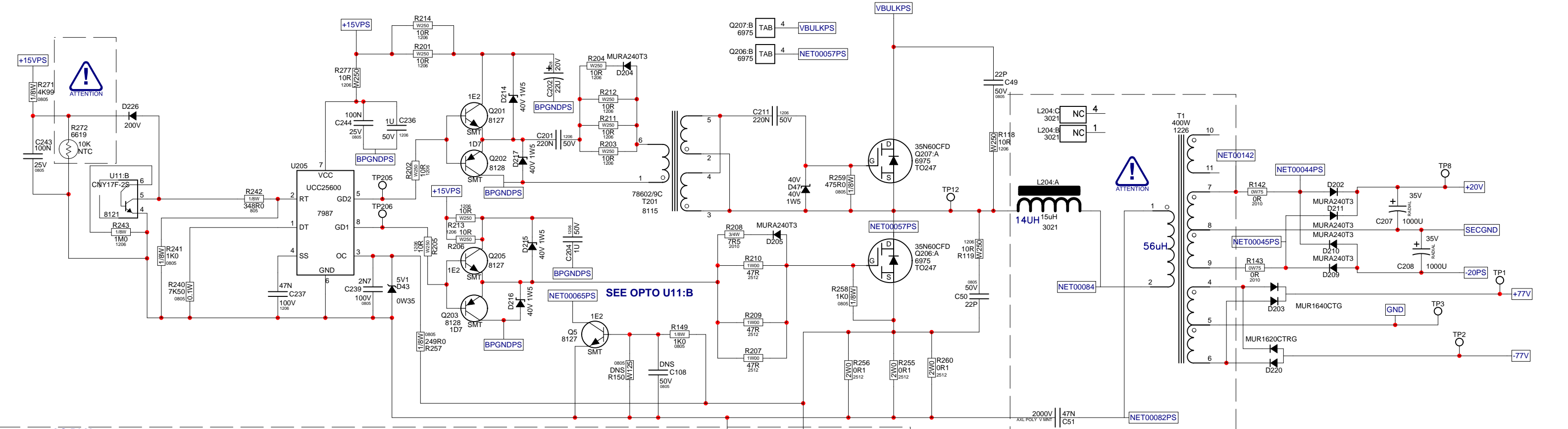
HORN

GROUND LINK

SIGNAL

**CONNECTOR TO INPUT BOARD
VIEW FROM TOP W8**





ATTENTION
The parts enclosed in the Dashed lines are critical safety components and can only be replaced by the appropriate YS part number.

AUX SUPPLY

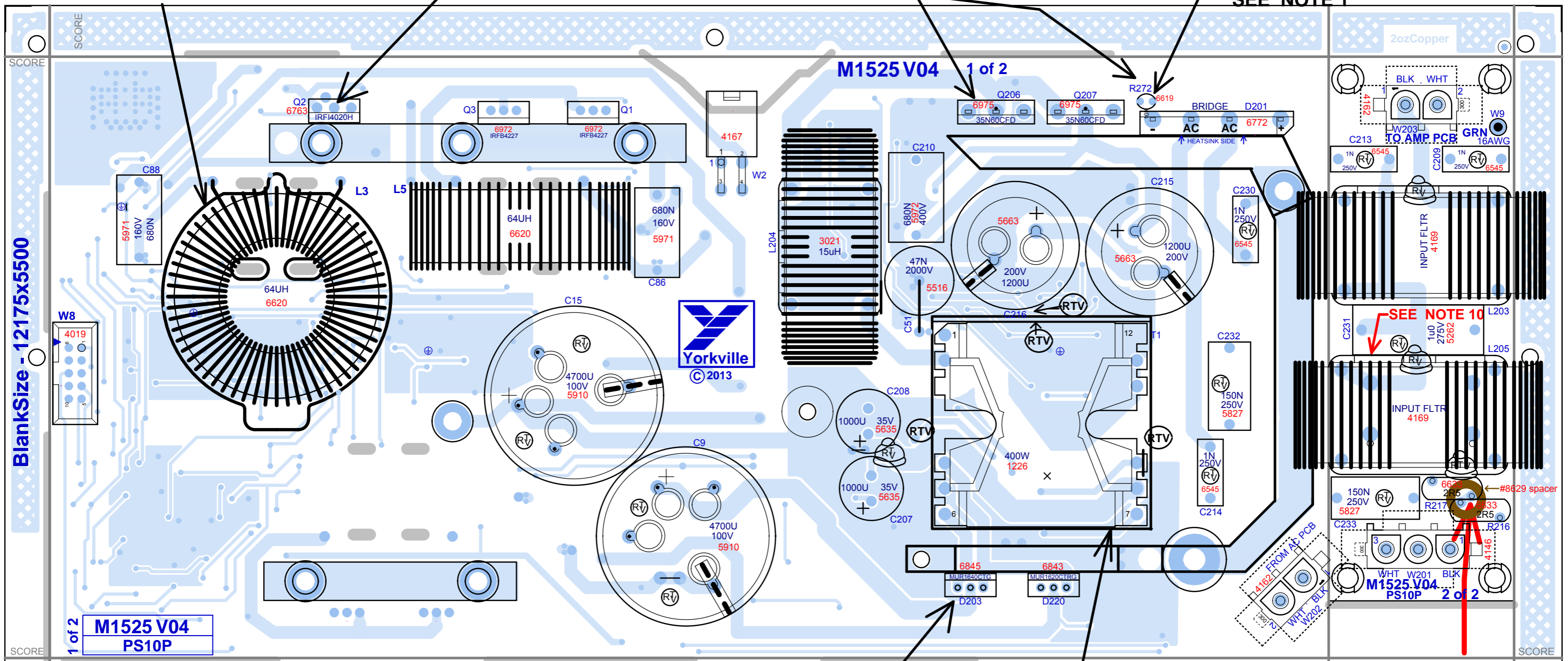
	Product PS 10P		
	Power Supply	PCB# M1525	Sheet 4 of 4
	Date: Mon Nov 17, 2014	Rev:V04	YsType:YsType
	Filename: M1525V04sch.sch2006		

APPLY COIL INSULATOR YS#Z1493 IN THIS AREA BEFORE RTV. SEE NOTE 5.

SEE PICS 1-3 (IN DOCUMENTATION) TO ADD SPACERS TO XSTR AND BRIDGE LEGS

SEE NOTE 1

BlankSize - 12175x5500



1 of 2 M1525 V04 PS10P

M1525 V04 PS10P

SEE PICS 1-3 (IN DOCUMENTATION) TO ADD SPACERS TO XSTR AND BRIDGE LEGS

APPLY INSULATOR YS#Z1494 TO T1 AND BEND EXCESS FLAP SO IT SITS VERTICALLY BETWEEN C216 AND T1 AS SHOWN. IN PIC. APPLY RTV TO AREAS INDICATED TO SECURE THE INSULATOR FROM VIBRATION. SEE NOTE 9.

USE ONE #8629 SPACER FOR BOTH SURGISTOR MAKE SURE RTV COVERS NO MORE THAN 30% OF THE SIDE OF THE SURGISTOR BUT IS STILL WELL SECURED TO COIL L206 SEE PICTURES IN DOCUMENTATION PAGES

CAUTION!

SEE LAYOUT DOCUMENTATION

PS10P
M1525 V04

REMOVE R117
FOR 240V VER.
R117

STUFF FOR
BRIDG
MONO
R6 R89



screw

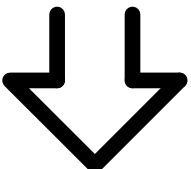
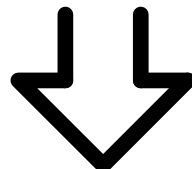
+16.5V SWITCHING
REGULATOR SUPPLY

M1525 V04

Bottom M1525 V04

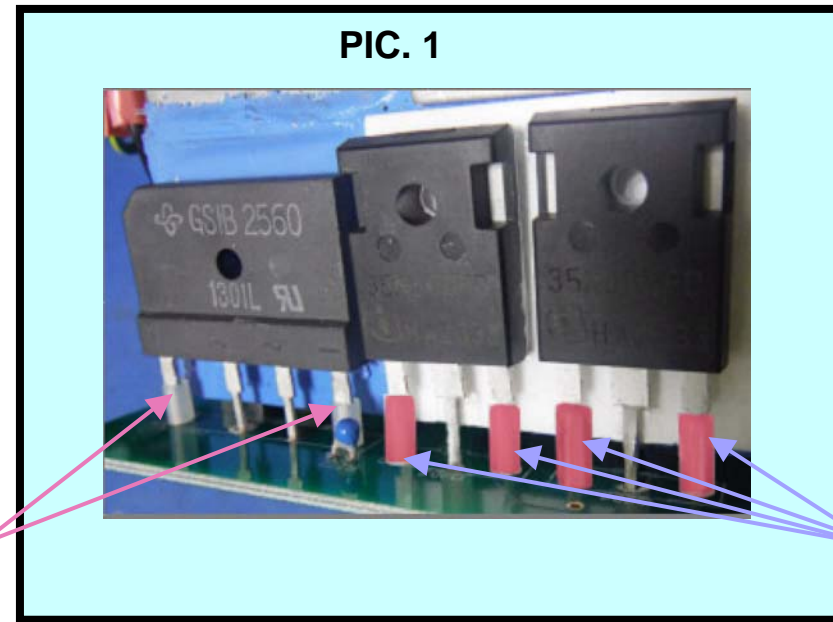
SCORE

M1525 V04 BOTTOM VIEW
SEE LAYOUT DOCUMENTATION



M1525 V04 PS10P PRODUCTION NOTES

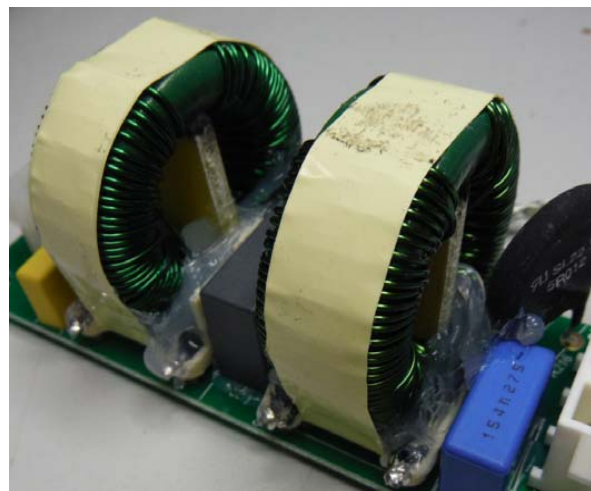
1. THERMISTOR R272 (YS# 6619) IS HAND INSERTED.
2. DO NOT STUFF COMPONENTS MARKED WITH DNS. IN THE LAYOUT PADS WITH NO COMPONENT OUTLINE OR REF DESIGNATOR ARE ALSO NOT STUFFED.
3. RTV BETWEEN AND AROUND ALL TALL CAPS, COILS, AND COMPONENTS.
4. ADD THE REQUIRED NUMBER OF SPACERS #8607 AND #3502 TO THE LEGS OF TRANSISTORS AS INDICATED IN PICTURES 1 - 3.
5. PEEL BACK OFF AND APPLY YS# Z1493 INSULATOR FOR COIL L3 IN LOCATION INDICATED. THIS IS DONE AFTER WAVE BEFORE RTV
6. RTV UNDER COILS L3 AND L5 (YS#6620) BEFORE SECURING WITH TIE WRAPS. THEN RTV AROUND THE SIDES. SEE CAUTION NOTE IN LAYOUT AND DOCUMENTATION PICTURES FOR SECURING R216 TO L206 WITH RTV
7. NOTE THAT THIS BOARD USES A WAVE SHIELD THAT REQUIRES THE SOLDER WAVE BE SET TO THE PROPER HEIGHT AND SPEED.
8. AFTER WAVE AND PCB FINISHING, PLEASE PLACE BOARD ON RACK SMT COMPS SIDE UP FOR TRANSPORT TO WIRING DEPARTMENT.
9. BEFORE INSERTING T1 INTO PCB, APPLY INSULATOR YS#1494 TO XFMR BY ALIGNING HOLES IN INSULATOR WITH THE PINS ON T1 XFMR. USE RTV (WHERE INDICATED) TO FASTEN IT DOWN AFTER PLACING T1 WITH INSULATOR INTO PCB.
10. PLACE L205 SO HIGH SIDE OF PLASTIC CARRIER IS AWAY FROM R217. SEE PICTURE



8607 (1)

9067 (1)

ADD SPACER #9067 TO THE INDICATED LEGS OF D201, Q206 AND Q207



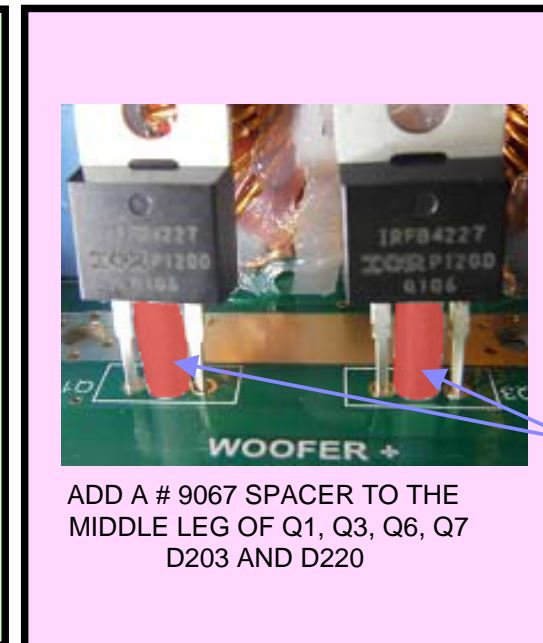
APPLY RTV ALL AROUND THE BASE OF THE COILS L203 AND L205 AS SHOWN



APPLY RTV INSIDE AND ALL AROUND THE COIL

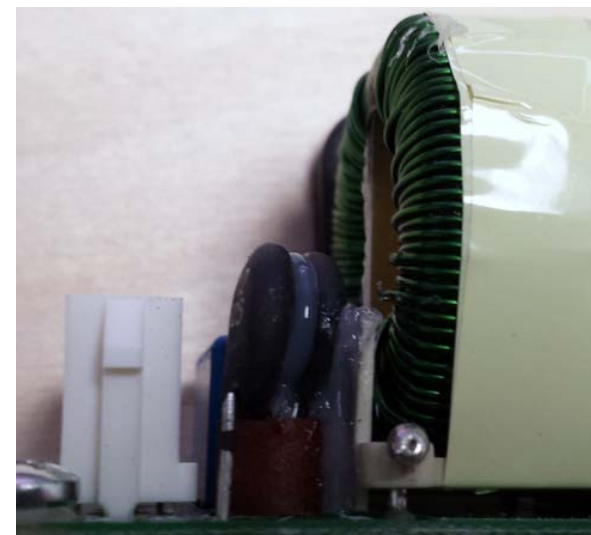


ADD 1 SPACER YS# 8607 TO MIDDLE REAR LEG OF Q2 AS SHOWN



9067 (1)

ADD A # 9067 SPACER TO THE MIDDLE LEG OF Q1, Q3, Q6, Q7 D203 AND D220



APPLY RTV BETWEEN TWO SURGISTORS AND BETWEEN SURGISTOR AND COIL



YS#1494 INSULATOR. SEE NOTE 9.

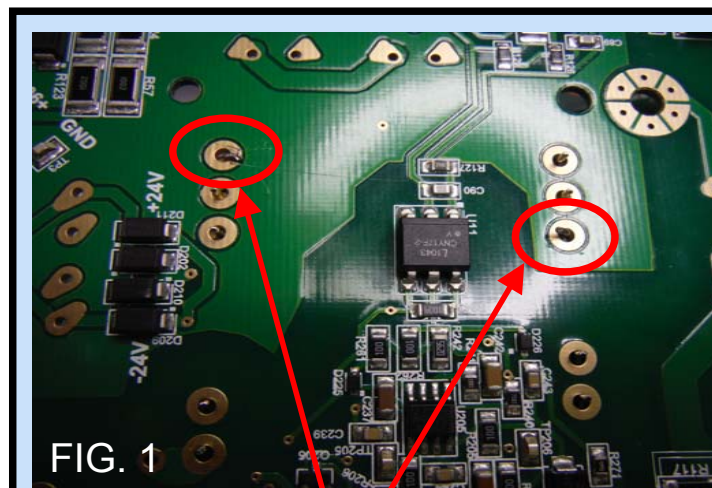


FIG. 1

Bend these 2 leads on back of board after inserting T1 (YS# 1226)

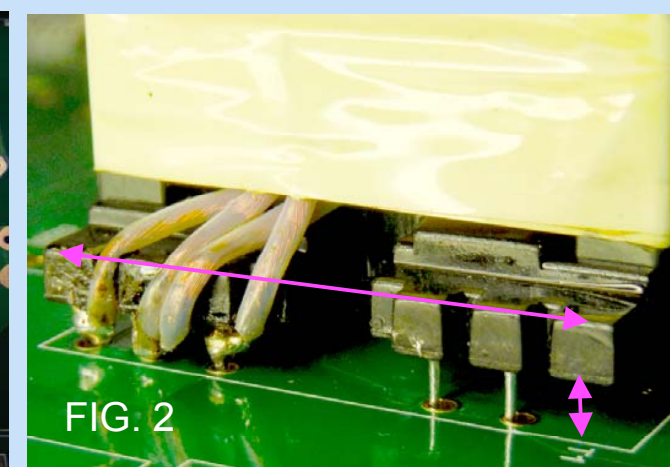
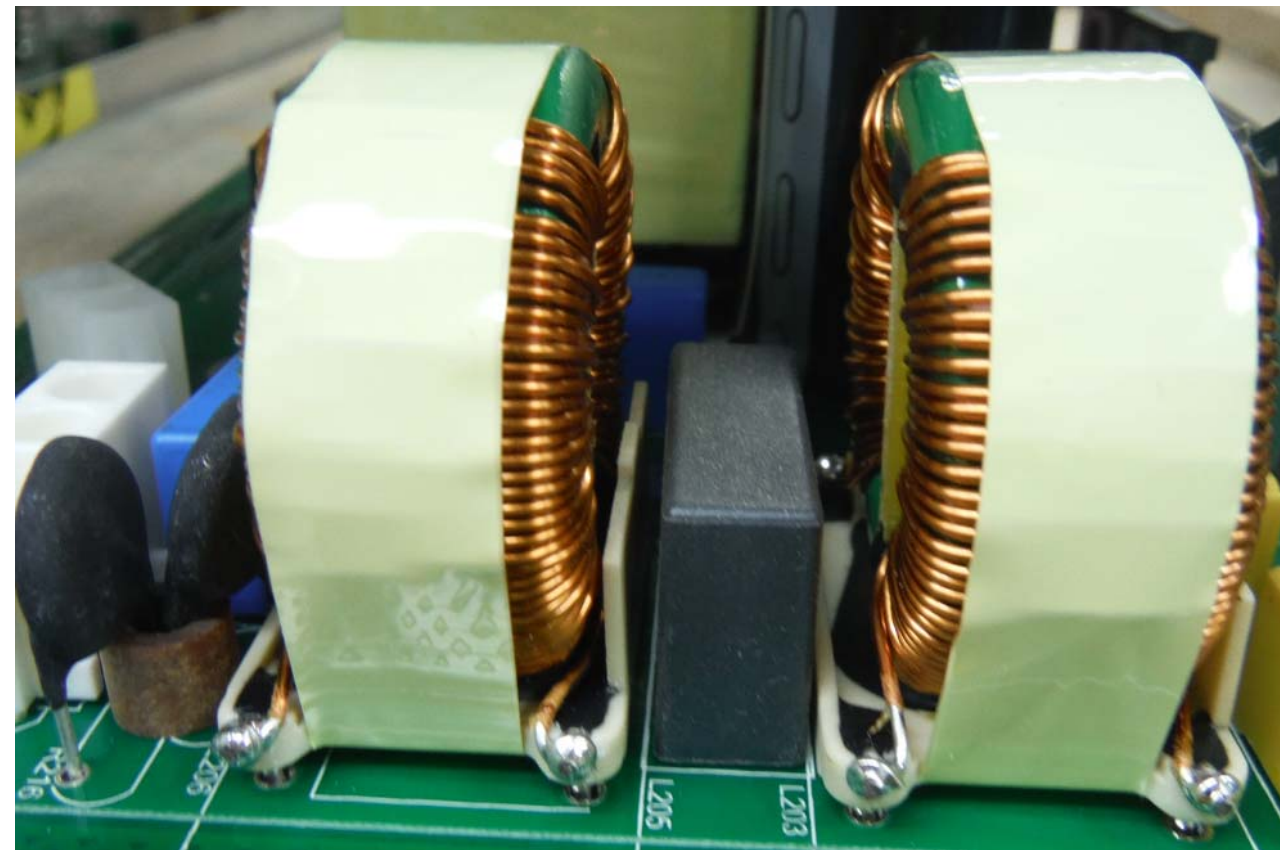


FIG. 2

Bending the 2 leads indicated in Fig 1 should level the XFMR T1 as shown in Fig 2 above



BOARDS PLACED UPSIDE DOWN ON RACK AFTER WAVE SOLDERING

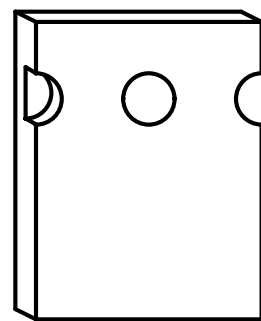


PICTURE FOR NOTE 10.

DESIGN HISTORY AND XSTR PINOUT INFORMATION

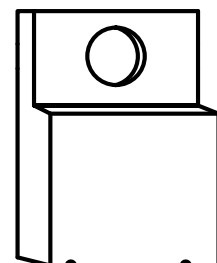
XSTR PIN-OUT

35N60CFD



G D S
TO-247AC

IRFB4227

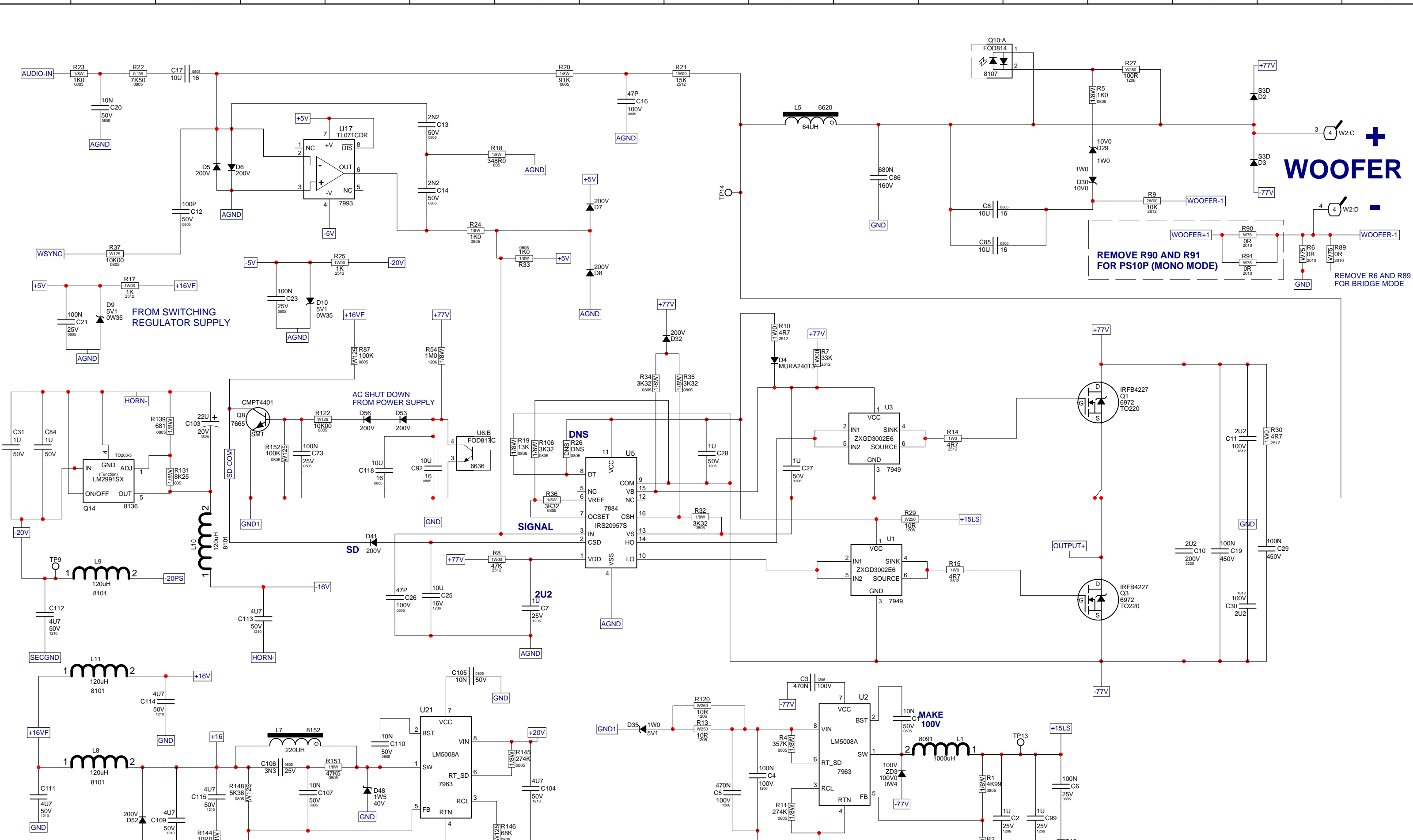


G D S
TO-220

M1525 PCB HISTORY

MODEL(S):- PS10P

#	DATE	VER#	DESCRIPTION OF CHANGE
1	10 SEP 2013	V01	RELEASED FOR PRODUCTION
2	22 NOV 2013	V02	ADDED ROUTES FOR BOARD SEPARATION
3	.	.	STRAIN RELIEF OF CERAMIC CAPS
4	06 JAN 2014	V03	PC#8620 - CHANGE L219 FROM YS#8001 TO YS#7974
5	.	.	CHANGE C29 FROM YS#7875 TO YS#8092
6	06 JUN 2014	V04	PC8634: Replace #6634 surgistor with
7	.	.	2 #6633 surgistors. Revised per QPS report.
8	.	.	PC8641: Replace C70, C79 to #7798. GG
9	19 AUG 2014	.	PC8687: REPLACE R145 357K (YS#7639) WITH 274K (YS#7686)
10	13-NOV-2014	.	ADDED NOTE 10 FOR PLACEMENT OF L205
11	D	V	N
12	D	V	N
13	D	V	N



WOOFER

REMOVE R90 AND R91 FOR PS10P (MONO MODE)
 REMOVE R6 AND R89 FOR BRIDGE MODE

FROM SWITCHING REGULATOR SUPPLY

AC SHUT DOWN FROM POWER SUPPLY

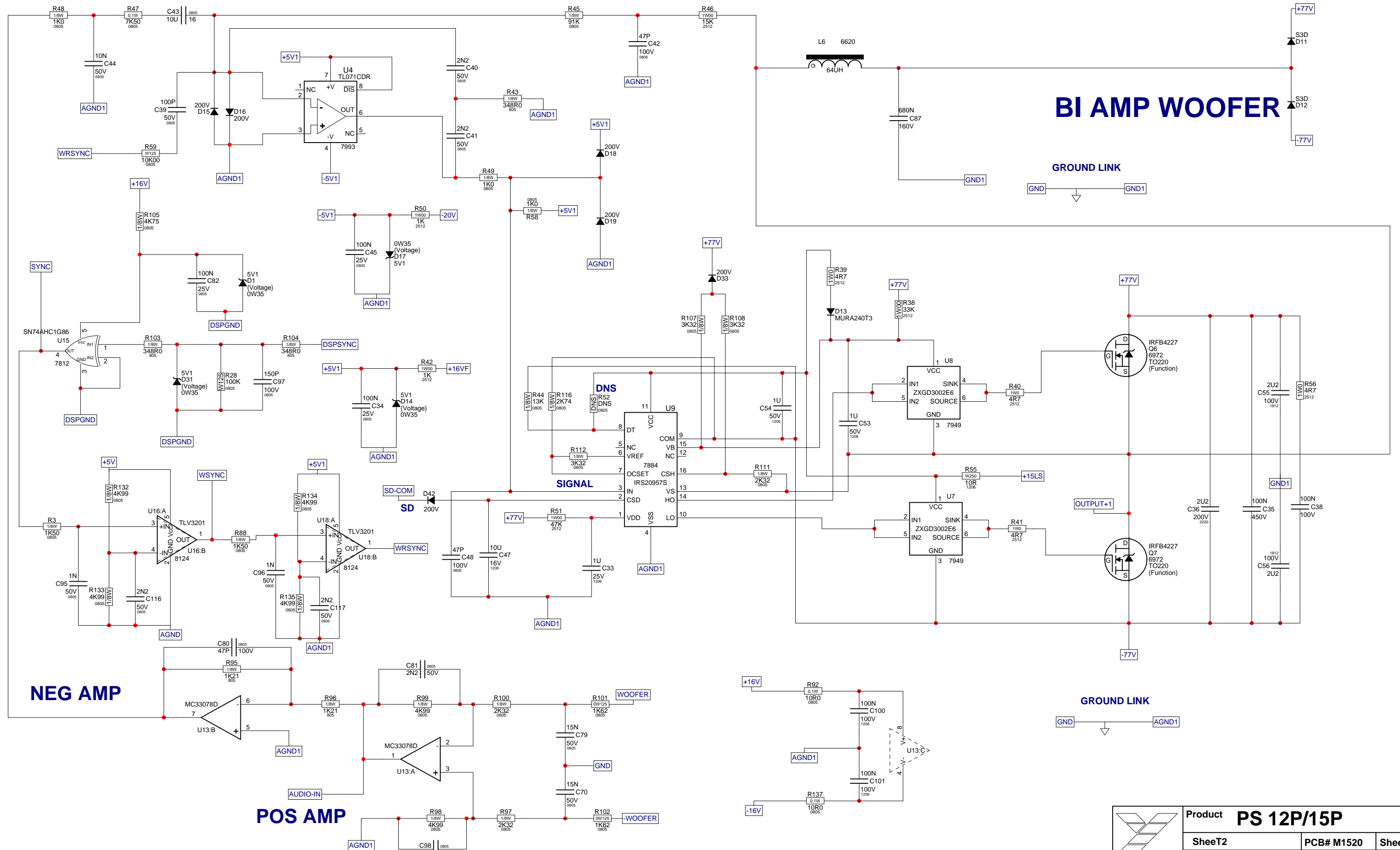
SIGNAL

MAKE 100V

+16.5V SWITCHING REGULATOR SUPPLY



Product PS 12P/15P		
Sheet1	PCB# M1520	Sheet 1 of 4
Date: Mon Nov 17, 2014	Rev:V04	YsType:YsType
Filename: M1520V04sch.sch2006		



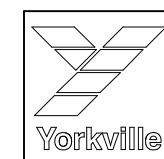
BI AMP WOOFER

NEG AMP

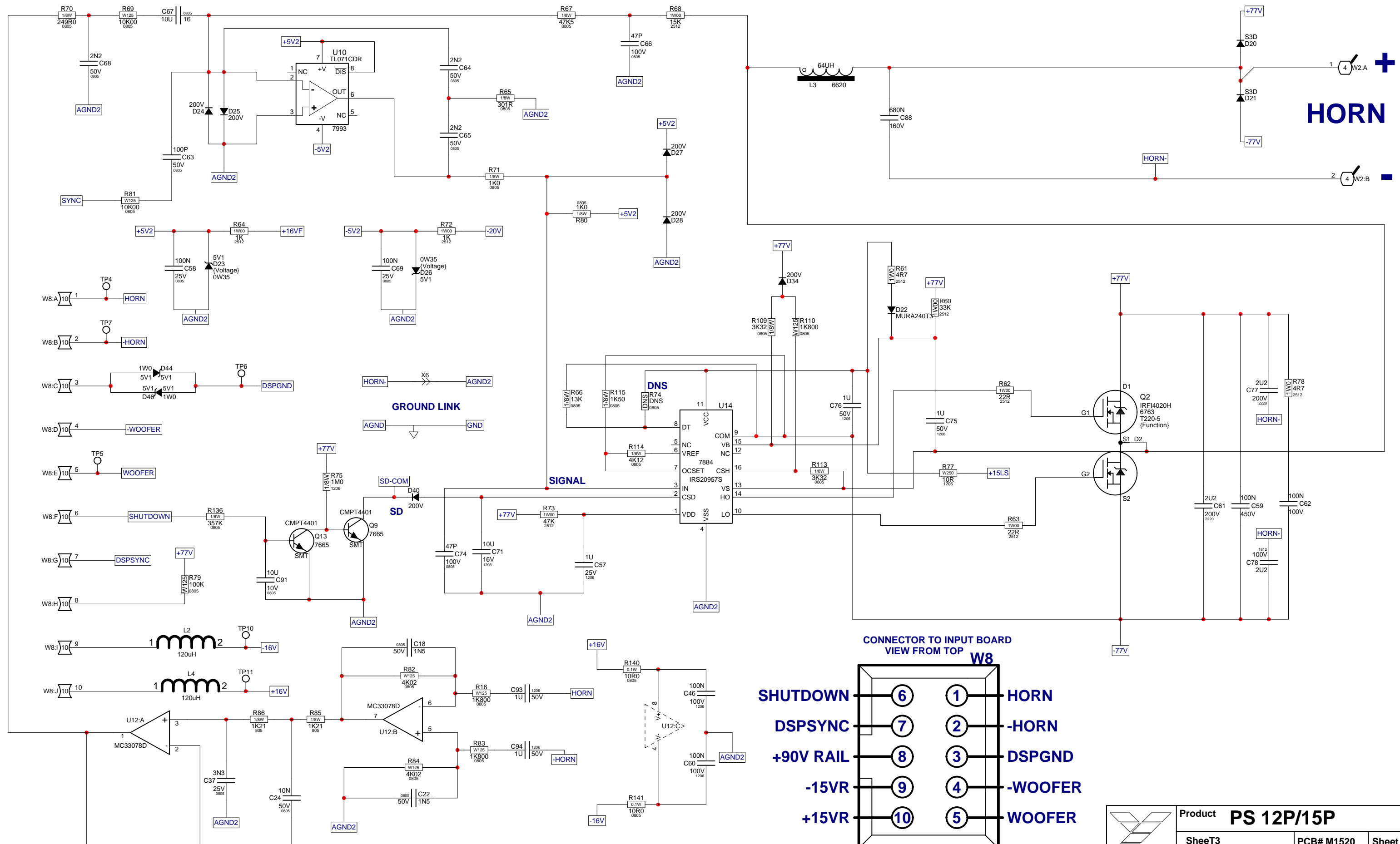
POS AMP

GROUND LINK

GROUND LINK



Product PS 12P/15P		
SheeT2	PCB# M1520	Sheet 2 of 4
Date: Mon Nov 17, 2014	Rev:V04	YsType:YsType
Filename: M1520V04sch.sch2006		

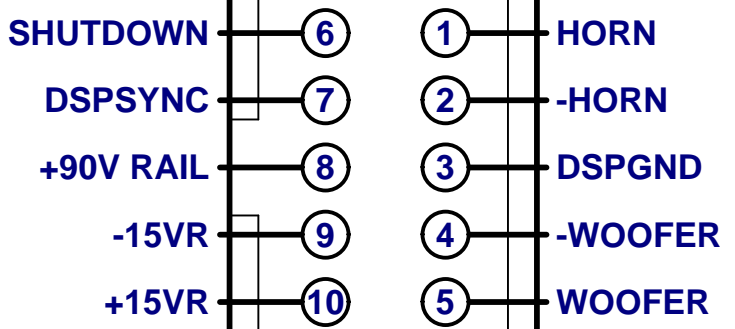


HORN

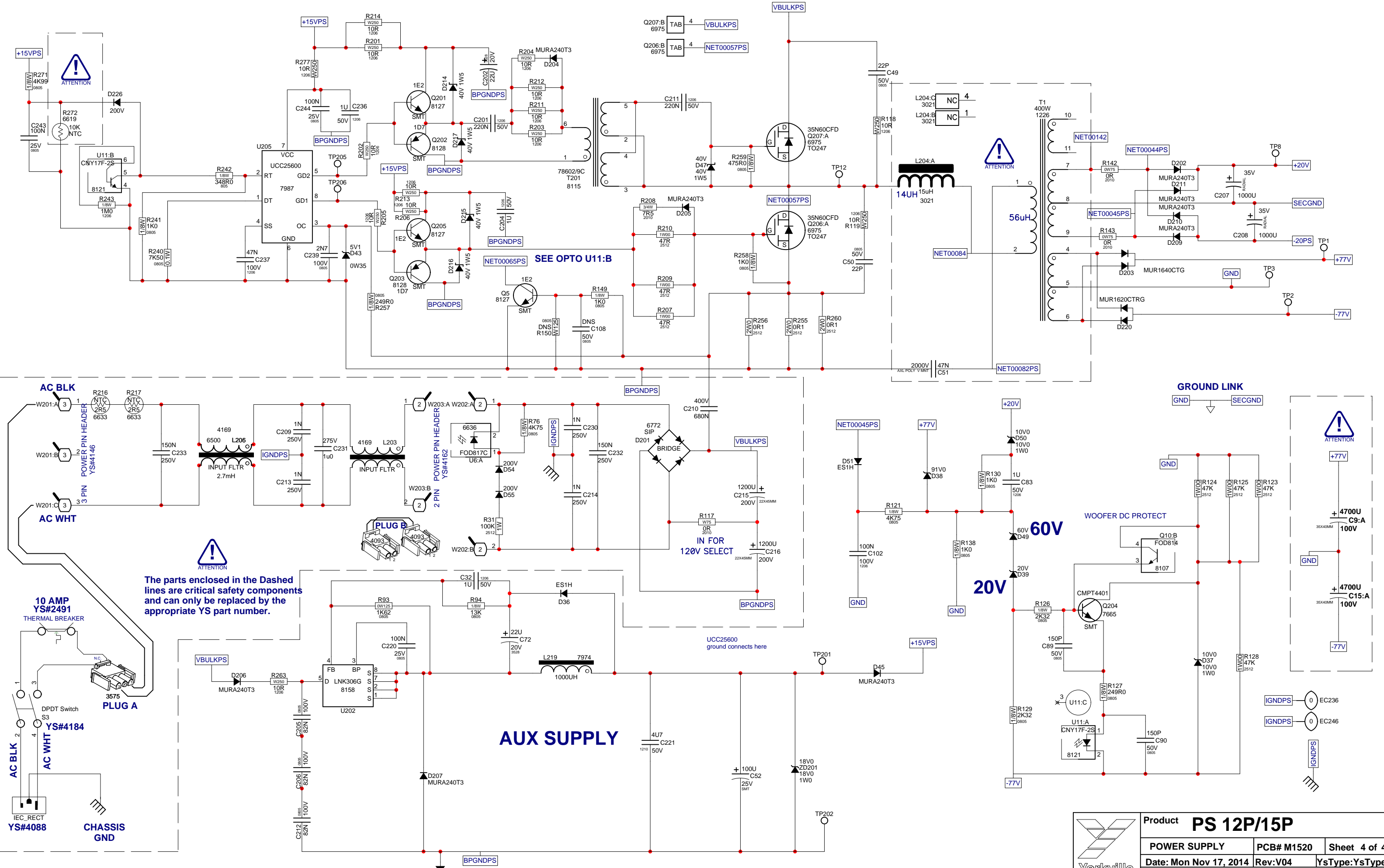
GROUND LINK

SIGNAL

**CONNECTOR TO INPUT BOARD
VIEW FROM TOP
W8**



Product PS 12P/15P		
SheeT3	PCB# M1520	Sheet 3 of 4
Date: Mon Nov 17, 2014	Rev:V04	YsType:YsType
Filename: M1520V04sch.sch2006		



ATTENTION
The parts enclosed in the Dashed lines are critical safety components and can only be replaced by the appropriate YS part number.

AUX SUPPLY

IN FOR 120V SELECT



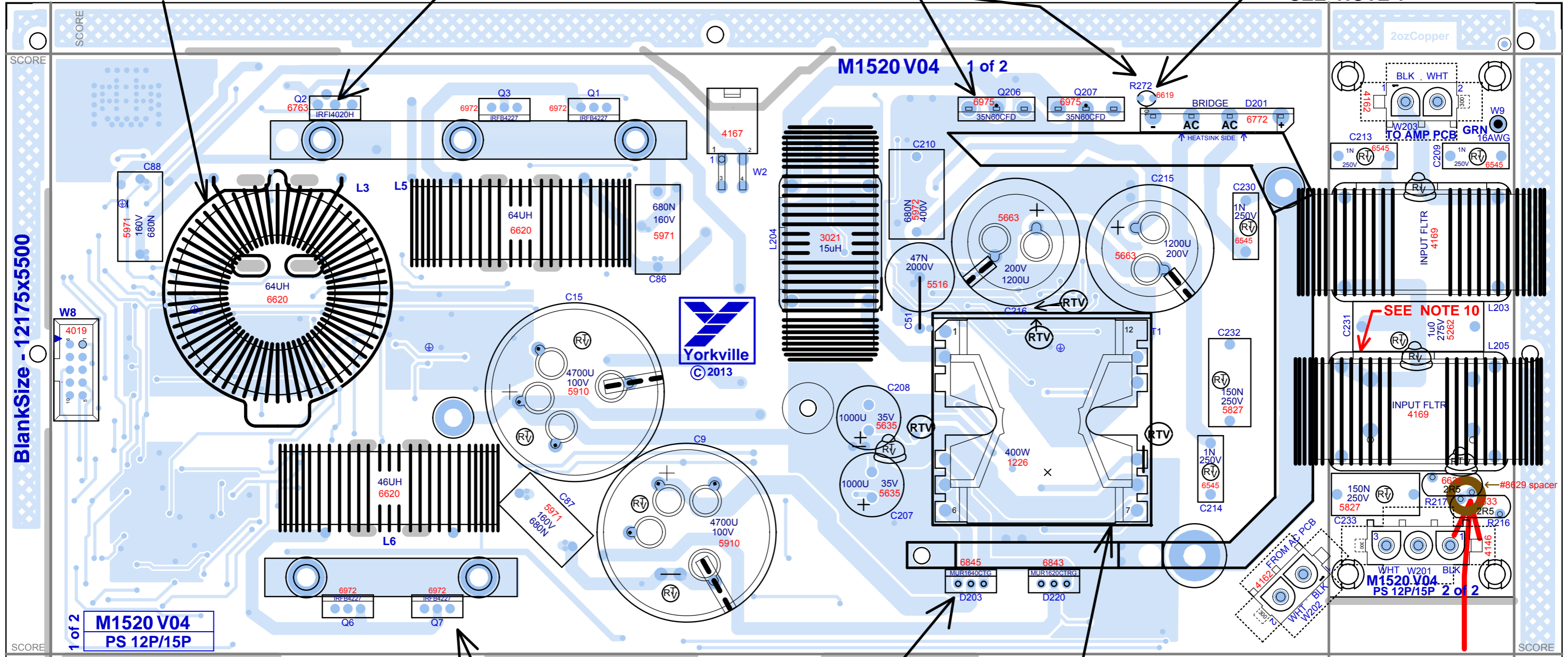
Product PS 12P/15P		
POWER SUPPLY	PCB# M1520	Sheet 4 of 4
Date: Mon Nov 17, 2014	Rev:V04	YsType:YsType
Filename: M1520V04sch.sch2006		

APPLY COIL INSULATOR YS#Z1493 IN THIS AREA BEFORE RTV. SEE NOTE 5.

SEE PICS 1-3 (IN DOCUMENTATION) TO ADD SPACERS TO XSTR AND BRIDGE LEGS

SEE NOTE 1

BlankSize - 12175x5500



M1520 V04 PS12P/15P

SEE PICS 1-3 (IN DOCUMENTATION) TO ADD SPACERS TO XSTR AND BRIDGE LEGS

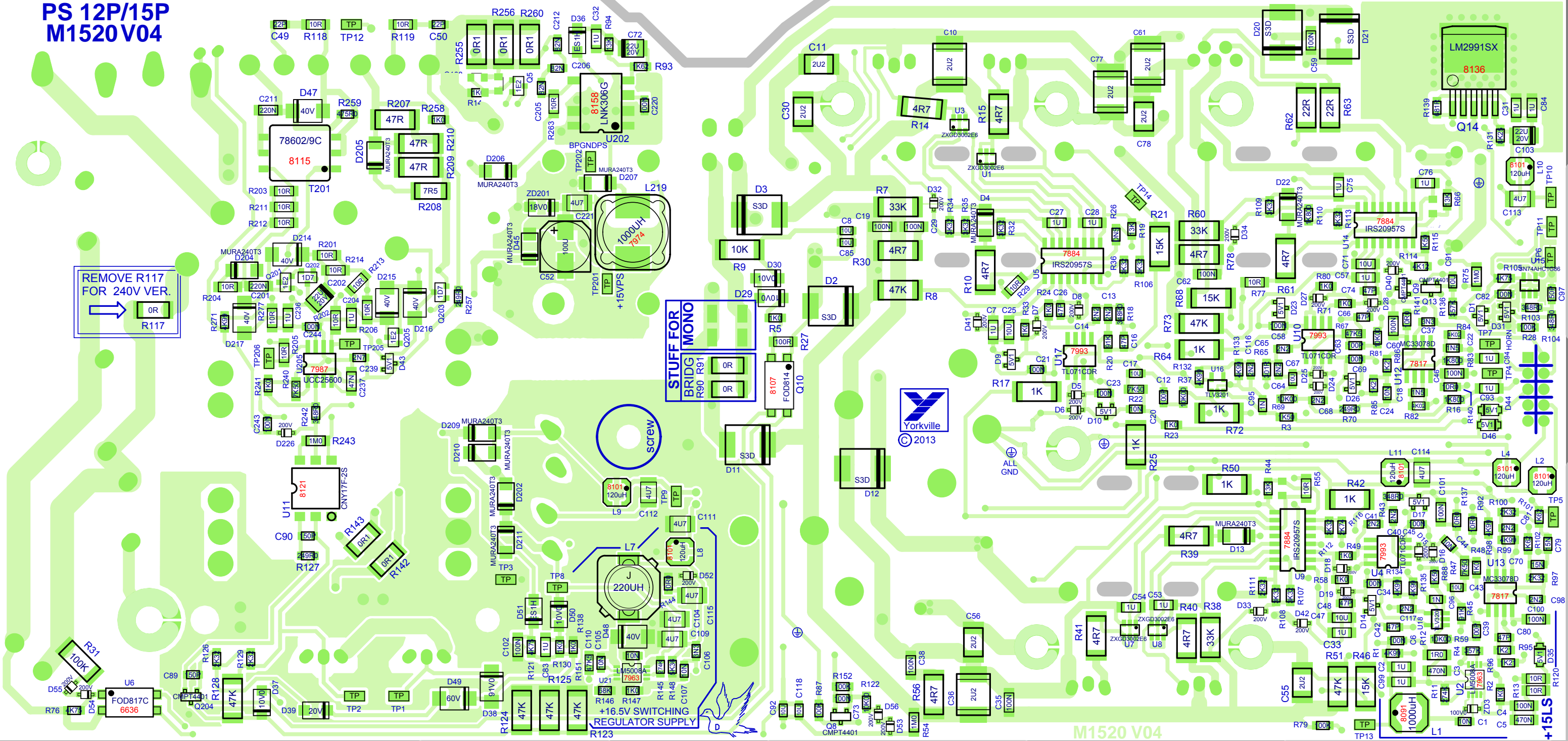
APPLY INSULATOR YS#Z1494 TO T1 AND BEND EXCESS FLAP SO IT SITS VERTICALLY BETWEEN C216 AND T1 AS SHOWN. IN PIC. APPLY RTV TO AREAS INDICATED TO SECURE THE INSULATOR FROM VIBRATION. SEE NOTE 9.

USE ONE #8629 SPACER FOR BOTH SURGISTOR MAKE SURE RTV COVERS NO MORE THAN 30% OF THE SIDE OF THE SURGISTOR BUT IS STILL WELL SECURED TO COIL L206 SEE PICTURES IN DOCUMENTATION PAGES

CAUTION!

SEE LAYOUT DOCUMENTATION

PS 12P/15P
M1520 V04



REMOVE R117
FOR 240V VER.

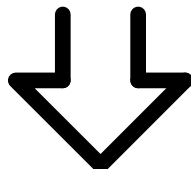
STUFF FOR
BRIDGE
MONO



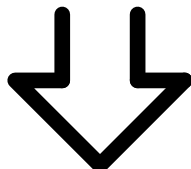
Bottom M1520 V04

M1520 V04

+15LS
20COE

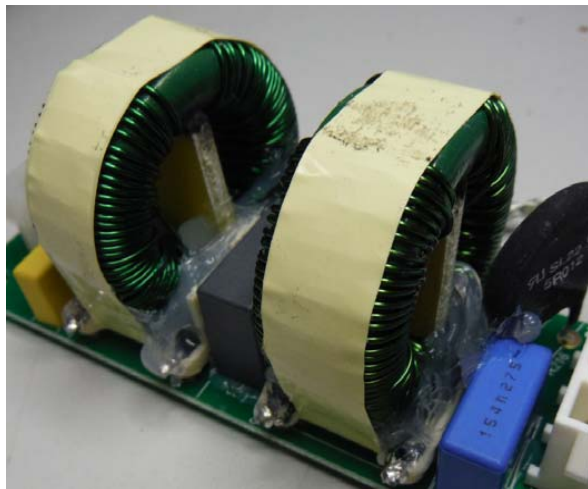
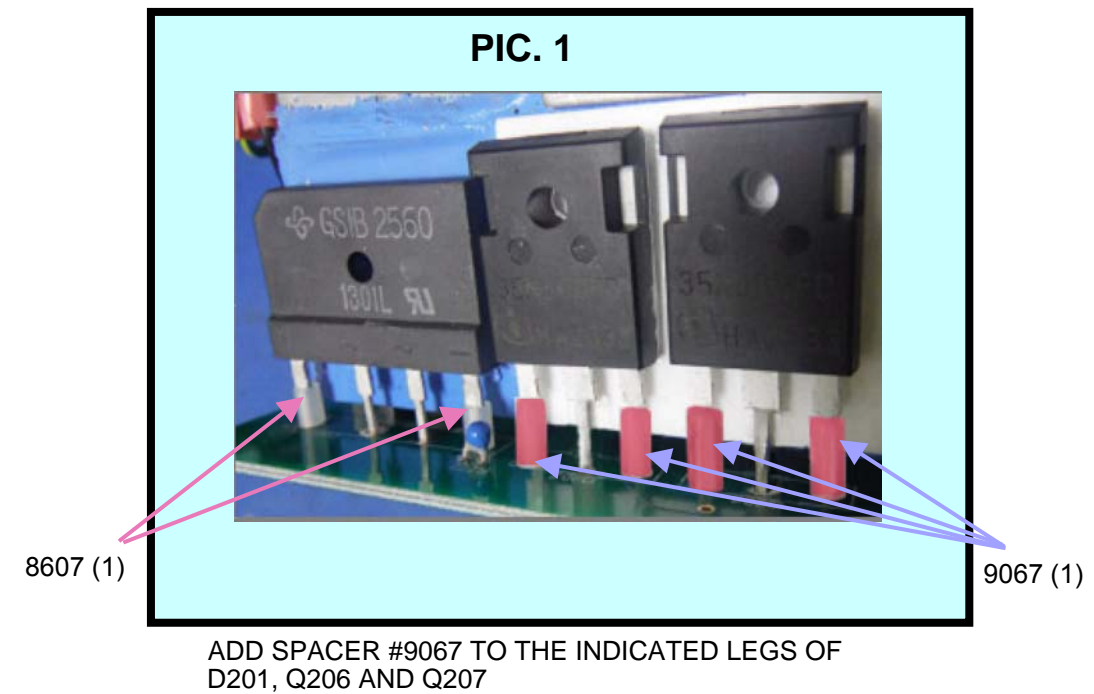


M1520 V04 BOTTOM VIEW
SEE LAYOUT DOCUMENTATION



M1520 V04 PS12P/PS15P PRODUCTION NOTES

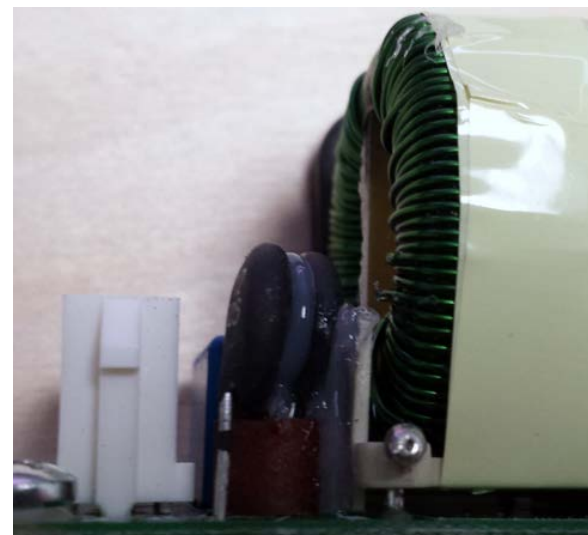
1. THERMISTOR R272 (YS# 6619) IS HAND INSERTED.
2. DO NOT STUFF COMPONENTS MARKED WITH DNS. IN THE LAYOUT PADS WITH NO COMPONENT OUTLINE OR REF DESIGNATOR ARE ALSO NOT STUFFED.
3. RTV BETWEEN AND AROUND ALL TALL CAPS, COILS, AND COMPONENTS.
4. ADD THE REQUIRED NUMBER OF SPACERS #8607 AND #3502 TO THE LEGS OF TRANSISTORS AS INDICATED IN PICTURES 1 - 3.
5. PEEL BACK OFF AND APPLY YS# Z1493 INSULATOR FOR COIL L3 IN LOCATION INDICATED. THIS IS DONE AFTER WAVE BEFORE RTV
6. RTV UNDER COILS L3, L5, AND L6 (YS#6620) BEFORE SECURING WITH TIE WRAPS. THEN RTV AROUND THE SIDES. SEE CAUTION NOTE IN LAYOUT AND DOCUMENTATION PICTURES FOR SECURING R216 TO L206 WITH RTV
7. NOTE THAT THIS BOARD USES A WAVE SHIELD THAT REQUIRES THE SOLDER WAVE BE SET TO THE PROPER HEIGHT AND SPEED.
8. AFTER WAVE AND PCB FINISHING, PLEASE PLACE BOARD ON RACK SMT COMPS SIDE UP FOR TRANSPORT TO WIRING DEPARTMENT.
9. BEFORE INSERTING T1 INTO PCB, APPLY INSULATOR YS#1494 TO XFMR BY ALIGNING HOLES IN INSULATOR WITH THE PINS ON T1 XFMR. USE RTV (WHERE INDICATED) TO FASTEN IT DOWN AFTER PLACING T1 WITH INSULATOR INTO PCB.
10. PLACE L205 SO HIGH SIDE OF PLASTIC CARRIER IS AWAY FROM R217. SEE PICTURE



APPLY RTV ALL AROUND THE BASE OF THE COILS L203 AND L205 AS SHOWN



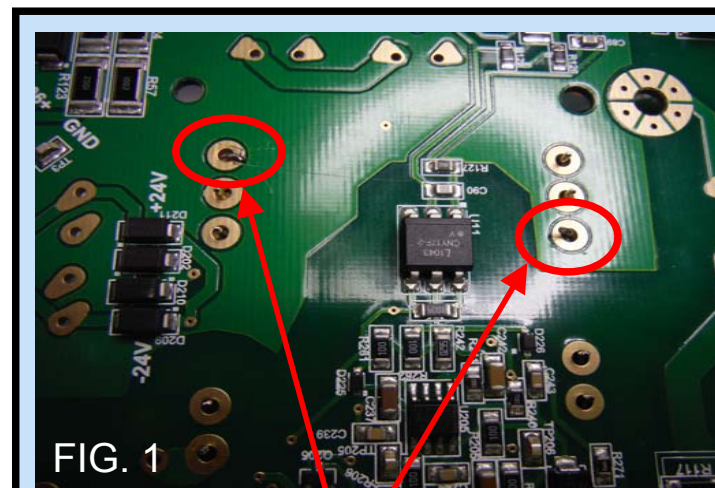
APPLY RTV INSIDE AND ALL AROUND THE COIL



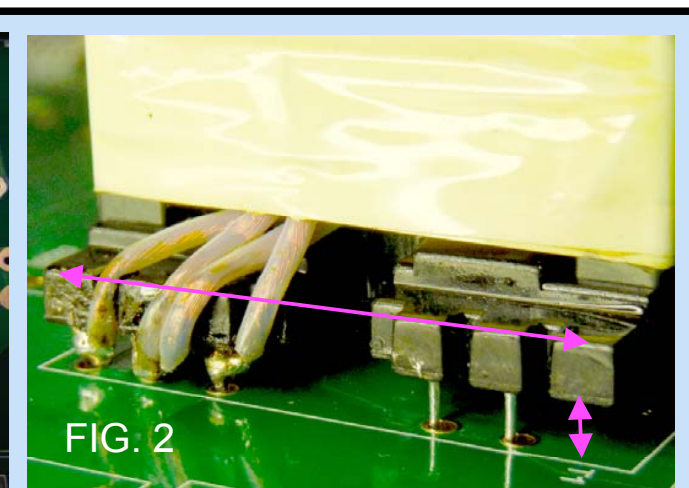
APPLY RTV BETWEEN TWO SURGISTORS AND BETWEEN SURGISTOR AND COIL



YS#1494 INSULATOR. SEE NOTE 9.



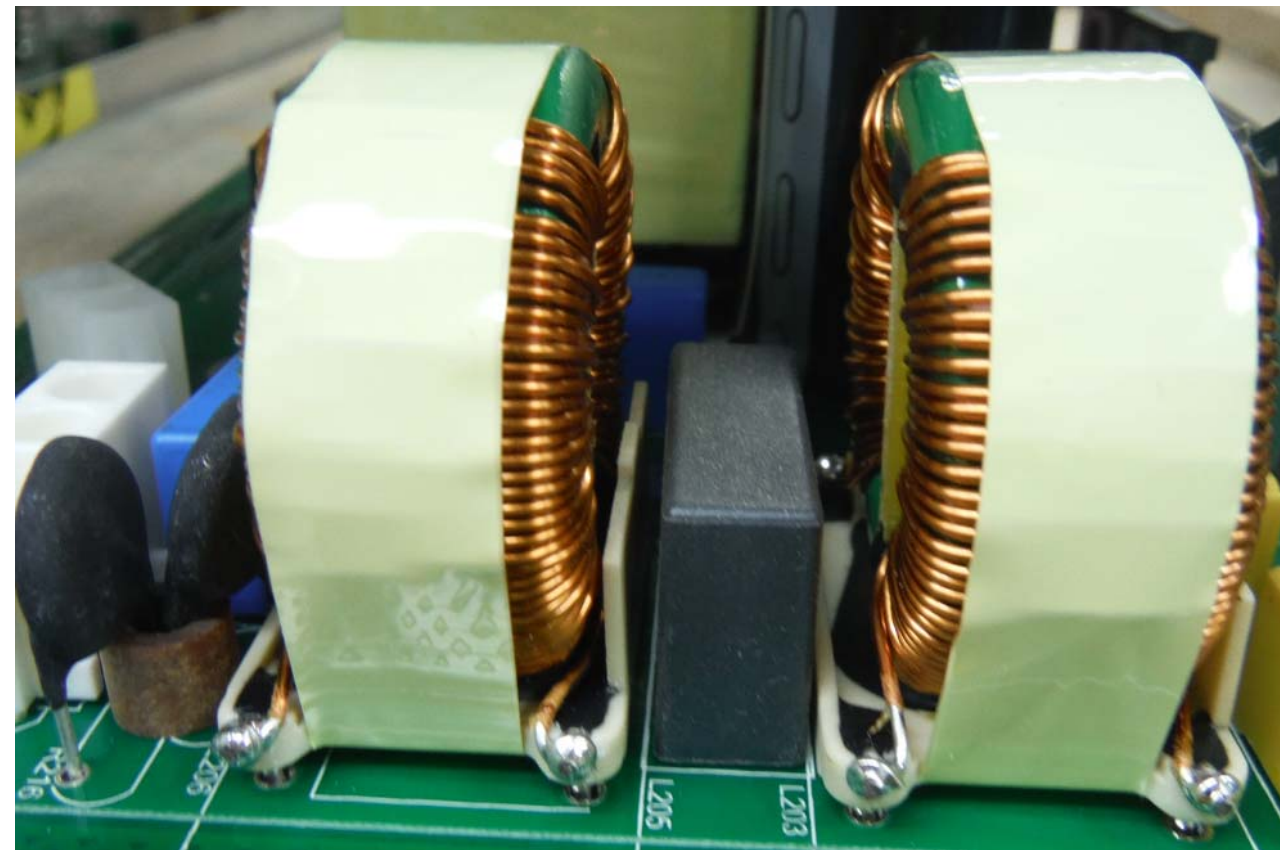
Bend these 2 leads on back of board after inserting T1 (YS# 1226)



Bending the 2 leads indicated in Fig 1 should level the XFMR T1 as shown in Fig 2 above



BOARDS PLACED UPSIDE DOWN ON RACK AFTER WAVE SOLDERING

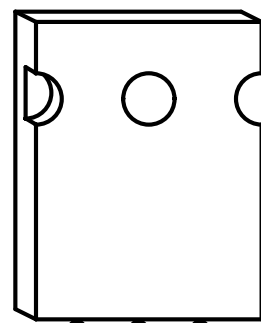


PICTURE FOR NOTE 10.

DESIGN HISTORY AND XSTR PINOUT INFORMATION

XSTR PIN-OUT

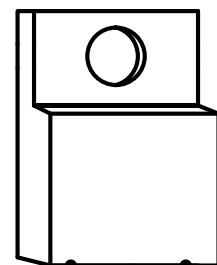
35N60CFD



G D S

TO-247AC

IRFB4227



G D S

TO-220

M1520 PCB HISTORY

MODEL(S):- PS12P AND PS15P

#	DATE	VER#	DESCRIPTION OF CHANGE
1	10 SEP 2013	V01	RELEASED FOR PRODUCTION
2	22 NOV 2013	V02	ADDED ROUTES FOR BOARD SEPARATION
3	.	.	STRAIN RELIEF OF CERAMIC CAPS
4	06 JAN 2014	V03	PC#8620 - CHANGE L219 FROM YS#8001 TO YS#7974
5	.	.	CHANGE C29 FROM YS#7875 TO YS#8092
6	29-MAY-2014	V04	PC8634: REPLACE #6634 SURGISTOR WITH 2 #6633 SURGISTORS
7	.	.	REVISED PER QPS REPORT
8	24-JUN-2014	.	PC8641: REPLACE 10N CAPS C70 & C79 WITH
9	.	.	VALUE 15N YS# 7798
10	19 AUG 2014	.	PC8687: REPLACE R145 357K (YS#7639) WITH 274K (YS#7686)
11	13-NOV-2014	.	ADDED NOTE 10 FOR PLACEMENT OF L205
12	D	V	N
13	D	V	N