Yorkville

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WORLD HEADQUARTERS

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Quality and Innovation Since 1963

Printed in Canada

Yorkville

SERVICE MANUAL

PS10P

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.

Manual-Service-PS10P-00-1v7 ĚOct 6/2020

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 choque 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 • AVIS

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

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.

IEC 60417-5041

CAUTION: HOT SURFACE
ATTENTION: SURFACE CHAUDE

NOT TO BE SERVICED BY USERS

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.

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 or 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 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!

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'ENTRETIENT CE PRODUIT EST POUR L'USAGE À L'INTÉREUR SEULEMENT. LES PACKS BATTERIES INSTALLÉS NE DOIVENT PAS ÊTRE EXPOSÉS À UNE CHALEUR EXCESSIVE TELLE QUE LE ENSOLEILLEMENT, LE FEU OU SIMILAIRES.

Veuillez Lire le Manuel: Il contient des informations qui devraient êtres 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 boite au cas ou 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!*

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 êtres prises afin d'eviter que le système de mise à la terre de l'appareil ne soit désengagé. Un appareil construit selon les normes de CLASS I 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.

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'appeil 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 lappareil 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'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connection extérieure doivent être effectivés 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 inutilisé 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. Débrancher l'appareil avant d'enlever les couvercles!

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 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.

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. 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 A L'ALIMENTATION ÉLECTRIQUE ALORS
QUE LA GRILLE EST RETIRÉE.

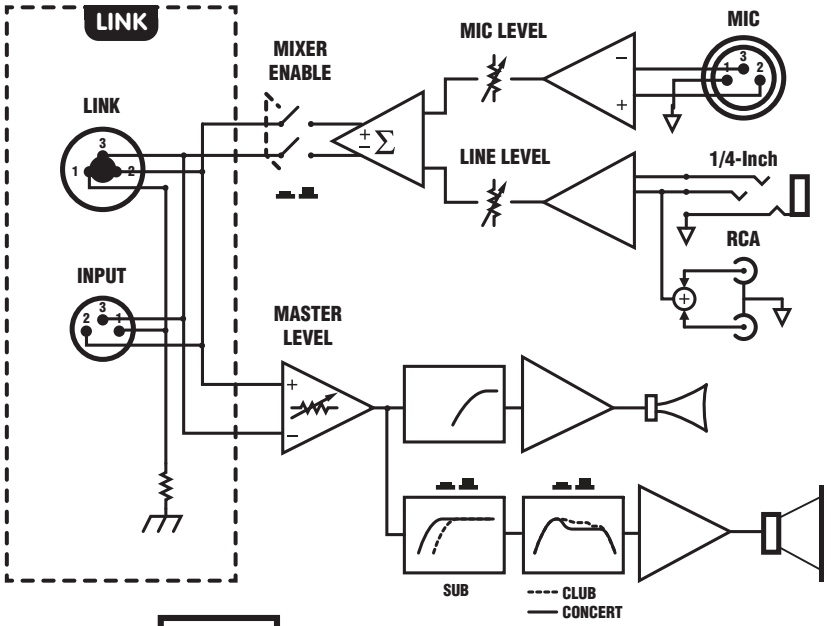
Specifications			
	PS10P	**PS12P**	**PS15P**
System Type	Active Loudspeaker	Active Loudspeaker	Active Loudspeaker
Active or Passive	Active	Active	Active
Program Power (watts)	800 watts (1600 watts peak)	1400 watts (4400 watts peak)	1400 watts (4400 watts peak)
Max SPL (dB)	127dB Peak (124dB Continuous)	133dB Peak (128dB Continuous)	134dB Peak (129dB Continuous)
Frequency Response (Hz +/- 3dB)	55hz to 20kHz	45Hz to 26kHz	45Hz to 26kHz
Crossover Frequency (Hz)	1.3k	1.3k	1.1k
Driver Configuration	2-way biamped (10-inch / 1-inch)	2-way biamped (12-inch / 1-inch)	2-way biamped (15-inch / 1-inch)
HF Driver(s)	38mm Voicecoil w/ 1-inch Exit	38mm Voicecoil w/ 1-inch Exit	38mm Voicecoil w/ 1-inch Exit
HF Dispersion (°H x °V)	90 x 70	85 x 50	85 x 50
HF Protection	Thermal/Peak Limiter	Thermal/Peak Limiter	Thermal/Peak Limiter
LF Driver(s)	10-inch Ceramic w/ 2-inch Voicecoil	12-inch (3 inch voicecoil)	15-inch (3 inch voicecoil)
LF Protection	Thermal/Multiband Peak Limiter	Thermal/Multiband Peak Limiter	Thermal/Multiband Peak Limiter
LF Processing	Dynamic Bass Extension	Dynamic Bass Extension	Dynamic Bass Extension
Cooling Scheme	Passive	Passive	Passive
Power Cable	Detachable IEC	Detachable IEC	Detachable IEC
Power Consumption (typ/max)	MAX: 1.25 A @ 120 Vac / 0.6 A @ 230 Vac	MAX: 1.6 A @ 120 Vac 0.8 A @ 230 Vac	MAX: 2.0 A @ 120 Vac 1.0 A @ 230 Vac
Inputs	1/4-inch, XLR, RCA	1/4-inch, XLR, RCA	1/4-inch, XLR, RCA
Inputs - 1/4-inch Jacks	Yes (x2)	Yes (x2)	Yes (x2)
Inputs - XLR	Yes (x2)	Yes (x2)	Yes (x2)
Input Sensitivity (Vrms Sine)	1.23 Vrms +4dBu	1.23 Vrms +4dBu	1.23 Vrms +4dBu
Mixer Controls	Sub Mode HPF, Bass Boost, Mixer Enable	Sub Mode HPF, Bass Boost, Mixer Enable	Sub Mode HPF, Bass Boost, Mixer Enable
Level Controls	Master Level, Mic Level, Line Level	Master Level, Mic Level, Line Level	Master Level, Mic Level, Line Level
LED Indicators	Power, Limit, Clip	Power, Limit, Clip	Power, Limit, Clip
Bar Handles	Yes	Yes	Yes
Pole Mount Adapter (1 3/8-inch-3.5cm)	Yes	Yes	Yes
Enclosure Materials	ABS	ABS	ABS
Baffle Material	ABS	ABS	ABS
Grille	Perforated Metal	Perforated Metal	Perforated Metal
Dimensions (DWH xbackW COM inches)	23 x 14 x 12	26.25 x 16.75 x 13.5	30.75 x 20.5 x 14.5
Dimensions (DWH xbackW COM cm)	58.4 x 35.6 x 30.5	66.7 x 42.5 x 34.3	78.1 x 52.1 x 36.3
Weight (lbs/kg)	40/18.2	40/18.2	60/27.8

Spécifications			
	PS10P	**PS12P**	**PS15P**
Type de système	Haut-Parleur Actif	Haut-Parleur Actif	Haut-Parleur Actif
Actif ou Passif	Actif	Actif	Actif
Puissance Nominale (Watts)	800 watts (1600 watts pointe)	1400 watts (4400 watts [pointe)	1400 watts (4400 watts pointe)
Max SPL (dB)	127dB Pointe (124dB Continu)	133dB Pointe (128dB Continu)	134dB Pointe (129dB Continu)
Niveau de Pression Sonore Max (dB)	55hz à 20kHz	45Hz à 26kHz	45Hz à 26kHz
Fréquences de Coupures (Hz)	1.3k	1.3k	1.1k
Configuration de Haut-parleurs	2-voix bi-amplifié (10-pouces / 1-pouce)	2-voix bi-amplifié (12-pouice / 1-pouce)	2-voix bi-ampliféi (15-pouce / 1-pouce)
Driver(s) FH	Bobine 38mm avec sortie 1-pouce	Bobine 38mm avec sortie 1-pouce	Bobine 38mm avec sortie 1-pouce
Dispersion FH (°H x °V)	90 x 70	85 x 50	85 x 50
Protection FH	Limiteur Thermique/Pointe	Limiteur Thermique/Pointe	Limiteur Thermique/Pointe
Driver(s) FG	10-pouces Céramique avec Cobine 2-pouce	12-pouces (Bobine 3 pouce)	15-pouces (bobine 3 pouce)
Protection FG	Limiteur de Pointe Multibande /Thermique	Limiteur de Pointe Multibande /Thermique	Limiteur de Pointe Multibande /Thermique
Traitement FG	Rehaussement Dynamique des Graves	Rehaussement Dynamique des Graves	Rehaussement Dynamique des Graves
Refroidissement	Passif	Passif	Passif
Cordon d'Alimentation	détachable CEI	détachable CEI	détachable CEI
Consommation de Puissance (typ/max)	MAX: 1.25 A @ 120 Vca / 0.6 A @ 230 Vca	MAX: 1.6 A @ 120 Vca 0.8 A @ 230 Vca	MAX: 2.0 A @ 120 Vca 1.0 A @ 230 Vca
Entrées	1/4-pouce, XLR, RCA	1/4-pouce, XLR, RCA	1/4-pouce, XLR, RCA
Entrées - 1/4 de pouce	Oui (x2)	Oui (x2)	Oui (x2)
Entrées - XLR	Oui (x2)	Oui (x2)	Oui (x2)
Sensibilitée d'Entrée (Vrms Sinuzoidale)	1.23 Vrms +4dBu	1.23 Vrms +4dBu	1.23 Vrms +4dBu
Commandes Mixeur	Mode Sub FPH, Bass Boost, Mixer Engagé	Mode Sub FPH, Bass Boost, Mixer Engagé	Mode Sub FPH, Bass Boost, Mixer Engagé
Commandes de Niveau	Niveau Master, Niveau Mic, Niveau Line	Niveau Master, Niveau Mic, Niveau Line	Niveau Master, Niveau Mic, Niveau Line
DEL indicatrices	Alimentation, Limite, Clip	Alimentation, Limite, Clip	Alimentation, Limite, Clip
Poignés à barre	Oui	Oui	Oui
Adaptateur pour Montage sur Pôle (1 3/8-	Oui	Oui	Oui
Matériaux de construction	ABS	ABS	ABS
Matériaux de baffle	ABS	ABS	ABS
Grille	Métal Perforé	Métal Perforé	Métal Perforé
Dimensions (PLH arrière L, pouces)	23 x 14 x 12	26.25 x 16.75 x 13.5	30.75 x 20.5 x 14.5
Dimensions (PLH arrière L, cm)	58.4 x 35.6 x 30.5	66.7 x 42.5 x 34.3	78.1 x 52.1 x 36.3
Poids (livres / kg)	40/18.2	40/18.2	60/27.8

Block Diagram for PS10P, PS12P & PS15P

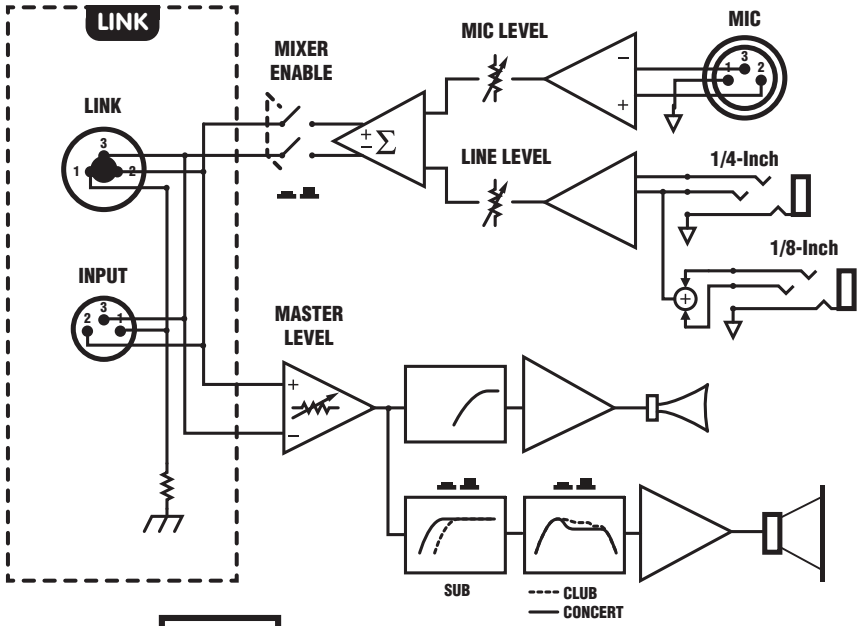
DESIGNED & MANUFACTURED BY YORKVILLE SOUND

REV1



NOTES:
- ALL LINK CONNECTIONS FUNCTION AS INPUTS OR OUTPUTS.
- EXTERNAL MIXERS CONNECT TO LINK INPUTS

REV2



NOTES:
- ALL LINK CONNECTIONS FUNCTION AS INPUTS OR OUTPUTS.
- EXTERNAL MIXERS CONNECT TO LINK INPUTS

M1519 01 PG1 Parts Reference List 10/2/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M1519-59	PS10PCE ASSY PCB	C92	7697	22U 16V 5%CAP 5X5.5 SMT ELC	C236	7734	1U0 50V 10%CAP 1206 SMT CER	L5	6672	64UH CHOKE 68T20AWG/T157-2 PCBMNT	R52	7670	W125 47R5 1% 0805 SMT RES
C1	7737	10N 50V 10%CAP 0805 SMT X7R	C93	7734	1U0 50V 10%CAP 1206 SMT CER	C237	7601	220N 50V 10%CAP 1206 SMT X7R	L7	8108	120UH COIL 0R4 10MMSQ SMT	R53	8131	W500 10R 5% 1210 SMT RES
C2	7878	1U 25V 20%CAP 1206 SMT X7R	C94	7734	1U0 50V 10%CAP 1206 SMT CER	C239	7737	10N 50V 10%CAP 0805 SMT X7R	L8	7941	8.2UH COIL 1210 SMT	R54	7824	W125 47K5 1% 0805 SMT RES
C3	8096	470N 100V 10%CAP 1206 SMT X7R	C95	7697	22U 16V 5%CAP 5X5.5 SMT ELC	C243	5979	100N 50V 5%CAP 0805 SMT X7R	L9	6507	3.3MH COIL COMMON MODE 5A	R57	8131	W500 10R 5% 1210 SMT RES
C4	7875	100N 100V 10%CAP 1206 SMT X7R	C96	7877	2U2 100V 20%CAP 1812 SMT X7R	C244	7738	10U0 16V 10%CAP 1206 SMT X7R	L10	6507	3.3MH COIL COMMON MODE 5A	R58	7679	W100 4K99 1% 0805 SMT RES
C5	7877	2U2 100V 20%CAP 1812 SMT X7R	C97	7877	2U2 100V 20%CAP 1812 SMT X7R	D1	8109	BAV21WS 200V 0A2 SOD323 SMT	L11	2910	120.0UH COIL SR4018T 1R6 SMT	R59	7928	W125 10K00 0.1% 0805 SMT RES
C6	5979	100N 50V 5%CAP 0805 SMT X7R	C98	7741	2N2 50V 10%CAP 0805 SMT X7R	D2	7889	ES3D 200V 3A0 D214 SMT SMC	L12	7732	220.0UH COIL SMT	R60	8094	1W00 33K 5% 2512 SMT RES
C7	7878	1U 25V 20%CAP 1206 SMT X7R	C99	7878	1U 25V 20%CAP 1206 SMT X7R	D3	7889	ES3D 200V 3A0 D214 SMT SMC	L13	2910	120.0UH COIL SR4018T 1R6 SMT	R61	4615	W250 4R7 5% 1206 SMT RES
C8	8088	10U 16V 10%CAP 0805 SMT X6S	C100	7875	100N 100V 10%CAP 1206 SMT X7R	D4	7848	MURA240T3 400V 2A DIO 403D SMT	L204	3109	25UH COIL E44 FERR 14T 19AWG LITZ	R62	7930	W250 22R 5% 1206 SMT RES
C9	5665	1500U 100V 20%CAP BLK 22X35MM	C101	7875	100N 100V 10%CAP 1206 SMT X7R	D5	8109	BAV21WS 200V 0A2 SOD323 SMT	L219	7974	1000UH 10% COIL 12MM SMT	R63	7930	W250 22R 5% 1206 SMT RES
C10	7876	2U2 200V 20%CAP 3025 SMT CER	C102	7694	3N3 25V 5%CAP 0805 SMT NPO	D6	8109	BAV21WS 200V 0A2 SOD323 SMT	Q1	6972	IRFB4227PBF TO220 NCH MFET TM	R64	7679	W100 4K99 1% 0805 SMT RES
C11	7877	2U2 100V 20%CAP 1812 SMT X7R	C104	7877	2U2 100V 20%CAP 1812 SMT X7R	D7	8109	BAV21WS 200V 0A2 SOD323 SMT	Q2	6763	IRFI4020H-117P MFET HLFBRDG TO220-5	R65	7709	W100 301R 1% 0805 SMT RES
C12	7737	10N 50V 10%CAP 0805 SMT X7R	C105	8096	470N 100V 10%CAP 1206 SMT X7R	D8	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN	Q3	6972	IRFB4227PBF TO220 NCH MFET TM	R66	7627	W100 13K 1% 0805 SMT RES
C13	7741	2N2 50V 10%CAP 0805 SMT X7R	C106	7694	3N3 25V 5%CAP 0805 SMT NPO	D9	7914	MMBZ5231B 5V1 0W35 5% SMT ZEN	Q4	7720	TL431A 3 TERM ADJ VREG SMT SOT-23	R67	7900	W125 30K 0.5% 0805 SMT RES
C14	7741	2N2 50V 10%CAP 0805 SMT X7R	C107	7737	10N 50V 10%CAP 0805 SMT X7R	D10	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN	Q5	7837	MMBT5401 PNP SOT-23 SMT	R68	8093	1W00 15K 5% 2512 SMT RES
C15	5665	1500U 100V 20%CAP BLK 22X35MM	C108	7735	4U7 50V 10%CAP 1210 SMT CER	D14	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN	Q8	7665	MMBT4401 NPN SOT-23 SMT	R69	7928	W125 10K00 0.1% 0805 SMT RES
C16	7748	47P 100V 5%CAP 0805 SMT NPO	C109	7735	4U7 50V 10%CAP 1210 SMT CER	D17	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN	Q9	7806	MMBF4391LT1 NCH JFET SOT-23 SMT T&R	R70	7671	W125 249R0 1% 0805 SMT RES
C17	8088	10U 16V 10%CAP 0805 SMT X6S	C110	7737	10N 50V 10%CAP 0805 SMT X7R	D18	8076	MMSZ4690T1G 5V6 0W5 5% SMT ZEN	Q10	8107	FOD814A OPTO-COUPLER 4P SMT IC	R71	7621	W100 1K0 1% 0805 SMT RES
C18	7693	1N 50V 5%CAP 0805 SMT NPO	C111	7927	100P 50V 10%CAP 0805 SMT NPO	D19	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN	Q11	6977	FDT3612 NCH MFET SOT-223 SMT	R72	4971	1W00 39K 5% 2512 SMT RES
C19	8092	100N 450V 10%CAP 1206 SMT X7T	C112	7735	4U7 50V 10%CAP 1210 SMT CER	D20	7889	ES3D 200V 3A0 D214 SMT SMC	Q12	8165	MMBTA92 PNP SOT-23 SMT	R73	8094	1W00 33K 5% 2512 SMT RES
C20	7737	10N 50V 10%CAP 0805 SMT X7R	C113	7927	100P 50V 10%CAP 0805 SMT NPO	D21	7889	ES3D 200V 3A0 D214 SMT SMC	Q13	7806	MMBF4391LT1 NCH JFET SOT-23 SMT T&R	R74	7670	W125 47R5 1% 0805 SMT RES
C21	5979	100N 50V 5%CAP 0805 SMT X7R	C114	7693	1N 50V 5%CAP 0805 SMT NPO	D22	7848	MURA240T3 400V 2A DIO 403D SMT	Q16	7701	MMBTA14 NPN DARL SOT-23 SMT	R75	7651	W250 1M0 1% 1206 SMT RES
C22	7693	1N 50V 5%CAP 0805 SMT NPO	C115	7735	4U7 50V 10%CAP 1210 SMT CER	D23	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN	Q17	7837	MMBT5401 PNP SOT-23 SMT	R76	8160	W125 91K 5% 0805 SMT RES
C23	5979	100N 50V 5%CAP 0805 SMT X7R	C116	7693	1N 50V 5%CAP 0805 SMT NPO	D24	8109	BAV21WS 200V 0A2 SOD323 SMT	Q18	7665	MMBT4401 NPN SOT-23 SMT	R77	7852	W250 10R 5% 1206 SMT RES
C24	7737	10N 50V 10%CAP 0805 SMT X7R	C117	5979	100N 50V 5%CAP 0805 SMT X7R	D25	8109	BAV21WS 200V 0A2 SOD323 SMT	Q19	8022	MMBTA64LT1G PNP DARL SOT-23 SMT	R78	8012	1W00 4R7 5% 2512 SMT RES
C25	8272	220P 100V 10%CAP 0805 SMT X7R	C118	7737	10N 50V 10%CAP 0805 SMT X7R	D26	8185	SMBJ5371B 60V 5W0 DO214AA SMT ZEN	Q20	7701	MMBTA14 NPN DARL SOT-23 SMT	R79	7822	W100 7K50 1% 0805 SMT RES
C26	7748	47P 100V 5%CAP 0805 SMT NPO	C119	5665	1500U 100V 20%CAP BLK 22X35MM	D27	8109	BAV21WS 200V 0A2 SOD323 SMT	Q21	7665	MMBT4401 NPN SOT-23 SMT	R80	7621	W100 1K0 1% 0805 SMT RES
C27	7735	4U7 50V 10%CAP 1210 SMT CER	C120	5665	1500U 100V 20%CAP BLK 22X35MM	D28	8109	BAV21WS 200V 0A2 SOD323 SMT	Q22	7837	MMBT5401 PNP SOT-23 SMT	R82	7679	W100 4K99 1% 0805 SMT RES
C28	7735	4U7 50V 10%CAP 1210 SMT CER	C121	5665	1500U 100V 20%CAP BLK 22X35MM	D29	7996	SMAZ10-13-F 10V0 1W0 10% SMT ZEN	Q23	8022	MMBTA64LT1G PNP DARL SOT-23 SMT	R83	7928	W125 10K00 0.1% 0805 SMT RES
C29	8092	100N 450V 10%CAP 1206 SMT X7T	C122	5665	1500U 100V 20%CAP BLK 22X35MM	D30	7996	SMAZ10-13-F 10V0 1W0 10% SMT ZEN	Q24	7701	MMBTA14 NPN DARL SOT-23 SMT	R84	7679	W100 4K99 1% 0805 SMT RES
C30	7877	2U2 100V 20%CAP 1812 SMT X7R	C123	7735	4U7 50V 10%CAP 1210 SMT CER	D31	8185	SMBJ5371B 60V 5W0 DO214AA SMT ZEN	Q25	7665	MMBT4401 NPN SOT-23 SMT	R85	7675	W125 1K21 1% 0805 SMT RES
C31	7878	1U 25V 20%CAP 1206 SMT X7R	C124	7735	4U7 50V 10%CAP 1210 SMT CER	D32	8109	BAV21WS 200V 0A2 SOD323 SMT	Q26	7837	MMBT5401 PNP SOT-23 SMT	R86	7675	W125 1K21 1% 0805 SMT RES
C32	5840	22N 400V 10%CAP BLK RAD POLY FLM	C125	5840	22N 400V 10%CAP BLK RAD POLY FLM	D34	8109	BAV21WS 200V 0A2 SOD323 SMT	Q27	8022	MMBTA64LT1G PNP DARL SOT-23 SMT	R87	7630	W100 182K 1% 0805 SMT RES
C34	7694	3N3 25V 5%CAP 0805 SMT NPO	C126	7737	10N 50V 10%CAP 0805 SMT X7R	D35	7965	DFLZ5V1-7 5V1 1W0 5% SMT ZEN	Q28	7665	MMBT4401 NPN SOT-23 SMT	R89	7998	W750 0R 1% 2010 SMT JMP
C37	7694	3N3 25V 5%CAP 0805 SMT NPO	C127	7875	100N 100V 10%CAP 1206 SMT X7R	D36	8085	ES1H 500V 1A0 D214 UPGT 8814	Q29	7701	MMBTA14 NPN DARL SOT-23 SMT	R90	7628	W100 15K0 1% 0805 SMT RES
C41	5979	100N 50V 5%CAP 0805 SMT X7R	C128	7693	1N 50V 5%CAP 0805 SMT NPO	D37	7996	SMAZ10-13-F 10V0 1W0 10% SMT ZEN	Q30	7844	MJD243T4G NPN DPAK3 SMT TS	R91	7821	W125 10R0 1% 0805 SMT RES
C43	5979	100N 50V 5%CAP 0805 SMT X7R	C129	7694	3N3 25V 5%CAP 0805 SMT NPO	D39	7848	MURA240T3 400V 2A DIO 403D SMT	Q31	7845	MJD253T4G PNP DPAK3 SMT TS	R92	7744	W250 4K7 5% 1206 SMT RES
C44	5979	100N 50V 5%CAP 0805 SMT X7R	C130	7931	270P 50V 5%CAP 0805 SMT NPO	D40	8109	BAV21WS 200V 0A2 SOD323 SMT	Q32	7806	MMBF4391LT1 NCH JFET SOT-23 SMT T&R	R93	8137	W125 1K62 1% 0805 SMT RES
C45	7878	1U 25V 20%CAP 1206 SMT X7R	C131	7737	10N 50V 10%CAP 0805 SMT X7R	D41	8109	BAV21WS 200V 0A2 SOD323 SMT	Q33	7806	MMBF4391LT1 NCH JFET SOT-23 SMT T&R	R94	7761	W100 12K1 1% 0603 SMT RES
C46	7878	1U 25V 20%CAP 1206 SMT X7R	C132	7737	10N 50V 10%CAP 0805 SMT X7R	D43	7914	MMBZ5231B 5V1 0W35 5% SMT ZEN	Q34	7837	MMBT5401 PNP SOT-23 SMT	R95	7679	W100 4K99 1% 0805 SMT RES
C49	7811	100U 25V 20%CAP 8X5.4 SMT ELE	C133	8096	470N 100V 10%CAP 1206 SMT X7R	D44	7750	CDSF4148 75V 0A15 1005 SMT	Q35	7665	MMBT4401 NPN SOT-23 SMT	R97	7679	W100 4K99 1% 0805 SMT RES
C51	5516	47N 2000V 10%CAP AXL POLYPROP BULK	C134	7734	1U0 50V 10%CAP 1206 SMT CER	D45	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN	Q206	6975	SPW35N60CFD MOSFET N-CN 600V TO-247	R98	7928	W125 10K00 0.1% 0805 SMT RES
C53	7735	4U7 50V 10%CAP 1210 SMT CER	C135	7748	47P 100V 5%CAP 0805 SMT NPO	D46	7914	MMBZ5231B 5V1 0W35 5% SMT ZEN	Q207	6975	SPW35N60CFD MOSFET N-CN 600V TO-247	R99	7928	W125 10K00 0.1% 0805 SMT RES
C54	7735	4U7 50V 10%CAP 1210 SMT CER	C136	7737	10N 50V 10%CAP 0805 SMT X7R	D47	6649	CDBF0130L 30V 1A SCH SOD323F SMT	R1	7679	W100 4K99 1% 0805 SMT RES	R100	7679	W100 4K99 1% 0805 SMT RES
C55	7877	2U2 100V 20%CAP 1812 SMT X7R	C137	7748	47P 100V 5%CAP 0805 SMT NPO	D48	7973	BAS316 100V 0A25 DIODE SOD323 SMT	R2	7621	W100 1K0 1% 0805 SMT RES	R101	8137	W125 1K62 1% 0805 SMT RES
C56	7877	2U2 100V 20%CAP 1812 SMT X7R	C138	7737	10N 50V 10%CAP 0805 SMT X7R	D50	7750	CDSF4148 75V 0A15 1005 SMT	R4	4985	W125 562K 1% 0805 SMT RES	R102	8137	W125 1K62 1% 0805 SMT RES
C57	7878	1U 25V 20%CAP 1206 SMT X7R	C139	7878	1U 25V 20%CAP 1206 SMT X7R	D51	7750	CDSF4148 75V 0A15 1005 SMT	R5	7621	W100 1K0 1% 0805 SMT RES	R105	7672	W125 348R0 1% 0805 SMT RES
C58	7878	1U 25V 20%CAP 1206 SMT X7R	C140	7748	47P 100V 5%CAP 0805 SMT NPO	D52	8109	BAV21WS 200V 0A2 SOD323 SMT	R6	7998	W750 0R 1% 2010 SMT JMP	R106	7633	W100 2K74 1% 0805 SMT RES
C59	8092	100N 450V 10%CAP 1206 SMT X7T	C141	7877	2U2 100V 20%CAP 1812 SMT X7R	D53	7750	CDSF4148 75V 0A15 1005 SMT	R7	8094	1W00 33K 5% 2512 SMT RES	R109	7637	W125 3K32 1% 0805 SMT RES
C60	7878	1U 25V 20%CAP 1206 SMT X7R	C142	7799	5N6 50V 5%CAP 0805 SMT C0G	D54	8109	BAV21WS 200V 0A2 SOD323 SMT	R8	8157	1W00 47K 5% 2512 SMT RES	R110	7637	W125 3K32 1% 0805 SMT RES
C61	7876	2U2 200V 20%CAP 3025 SMT CER	C143	7799	5N6 50V 5%CAP 0805 SMT C0G	D55	7750	CDSF4148 75V 0A15 1005 SMT	R9	8095	1W00 10K 5% 2512 SMT RES	R113	7637	W125 3K32 1% 0805 SMT RES
C62	8092	100N 450V 10%CAP 1206 SMT X7T	C144	7734	1U0 50V 10%CAP 1206 SMT CER	D57	6649	CDBF0130L 30V 1A SCH SOD323F SMT	R10	8012	1W00 4R7 5% 2512 SMT RES	R114	8189	W125 4K02 0.1% 0805 SMT RES
C63	7878	1U 25V 20%CAP 1206 SMT X7R	C145	5979	100N 50V 5%CAP 0805 SMT X7R	D58	6649	CDBF0130L 30V 1A SCH SOD323F SMT	R11	7686	W100 274K 1% 0805 SMT RES	R115	7649	W125 1K50 1% 0805 SMT RES
C64	7741	2N2 50V 10%CAP 0805 SMT X7R	C146	5979	100N 50V 5%CAP 0805 SMT X7R	D59	6649	CDBF0130L 30V 1A SCH SOD323F SMT	R12	7739	W250 1R 5% 1206 SMT RES	R118	8183	1W00 2R0 1% 2512 SMT RES
C65	7741	2N2 50V 10%CAP 0805 SMT X7R	C147	7878	1U 25V 20%CAP 1206 SMT X7R	D60	7617	BZX84C15LT1 15V0 0W225 ZEN SOT23	R13	7852	W250 10R 5% 1206 SMT RES	R120	7852	W250 10R 5% 1206 SMT RES
C66	7748	47P 100V 5%CAP 0805 SMT NPO	C148	7878	1U 25V 20%CAP 1206 SMT X7R	D61	7617	BZX84C15LT1 15V0 0W225 ZEN SOT23	R14	8012	1W00 4R7 5% 2512 SMT RES	R121	7824	W125 47K5 1% 0805 SMT RES
C67	8088	10U 16V 10%CAP 0805 SMT X6S	C149	7878	1U 25V 20%CAP 1206 SMT X7R	D62	7750	CDSF4148 75V 0A15 1005 SMT	R15	8012	1W00 4R7 5% 2512 SMT RES	R122	7865	W125 150K 5% 0805 SMT RES
C68	7741	2N2 50V 10%CAP 0805 SMT X7R	C150	7878	1U 25V 20%CAP 1206 SMT X7R	D201	6772	BRIDGE 25A 400V WIRE LEAD SIP	R16	7928	W125 10K00 0.1% 0805 SMT RES	R123	7824	W125 47K5 1% 0805 SMT RES
C69	7878	1U 25V 20%CAP 1206 SMT X7R	C151	7878	1U 25V 20%CAP 1206 SMT X7R	D203	6845	MUR1640CTG 400V 8A DIODE DUAL CC	R17	7634	W100 20K5 1% 0805 SMT RES	R124	8008	W250 10K 5% ANTISURGE 0805 SMT RES
C70	7737	10N 50V 10%CAP 0805 SMT X7R	C152	7878	1U 25V 20%CAP 1206 SMT X7R	D206	7848	MURA240T3 400V 2A DIO 403D SMT	R18	7672	W125 348R0 1% 0805 SMT RES	R125	8008	W250 10K 5% ANTISURGE 0805 SMT RES
C71	7693	1N 50V 5%CAP 0805 SMT NPO	C153	7735	4U7 50V 10%CAP 1210 SMT CER	D207	7848	MURA240T3 400V 2A DIO 403D SMT	R19	7627	W100 13K 1% 0805 SMT RES	R126	7632	W100 2K32 1% 0805 SMT RES
C72	7738	10U0 16V 10%CAP 1206 SMT X7R	C154	7735	4U7 50V 10%CAP 1210 SMT CER	D220	6843	MUR1620CTRG 200V 16A DIODE DUAL CA	R20	4974	W125 45K3 1% 0805 SMT RES	R127	7621	W100 1K0 1% 0805 SMT RES
C73	5979	100N 50V 5%CAP 0805 SMT X7R	C155	7878	1U 25V 20%CAP 1206 SMT X7R	HW1	9067	1/8X5/16XID.64 NYLON SPACER	R21	8093	1W00 15K 5% 2512 SMT RES	R128	7621	W100 1K0 1% 0805 SMT RES
C74	7748	47P 100V 5%CAP 0805 SMT NPO	C156	7878	1U 25V 20%CAP 1206 SMT X7R	HW2	9067	1/8X5/16XID.64 NYLON SPACER	R22	8153	W125 5K36 1% 0805 SMT RES	R129	7632	W100 2K32 1% 0805 SMT RES
C75	5979	100N 50V 5%CAP 0805 SMT X7R	C157	7878	1U 25V 20%CAP 1206 SMT X7R	HW3	9067	1/8X5/16XID.64 NYLON SPACER	R23	7621	W100 1K0 1% 0805 SMT RES	R130	7824	W125 47K5 1% 0805 SMT RES
C76	7734	1U0 50V 10%CAP 1206 SMT CER	C158	7878	1U 25V 20%CAP 1206 SMT X7R	HW4	9067	1/8X5/16XID.64 NYLON SPACER	R24	7621	W100 1K0 1% 0805 SMT RES	R131	8160	W125 91K 5% 0805 SMT RES
C77	7877	2U2 100V 20%CAP 1812 SMT X7R	C159	7878	1U 25V 20%CAP 1206 SMT X7R	HW5	9067	1/8X5/16XID.64 NYLON SPACER	R26	4964	W125 68R1 1% 0805 SMT RES	R132	7622	W100 1M0 1% 0805 SMT RES
C78	7877	2U2 100V 20%CAP 1812 SMT X7R	C204	7734	1U0 50V 10%CAP 1206 SMT CER	HW6	9067	1/8X5/16XID.64 NYLON SPACER	R27	7624	W100 100R 1% 0805 SMT RES	R133	4971	1W00 39K 5% 2512 SMT RES
C79	7737	10N 50V 10%CAP 0805 SMT X7R	C209	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	HW7	9067	1/8X5/16XID.64 NYLON SPACER	R29	7852	W250 10R 5% 1206 SMT RES	R135	7637	W125 3K32 1% 0805 SMT RES
C80	7878	1U 25V 20%CAP 1206 SMT X7R	C210	5972	680N 400V 5%CAP BLK RAD POLY FLM	HW8	9067	1/8X5/16XID.64 NYLON SPACER	R30	8012	1W00 4R7 5% 2512 SMT RES	R136	7639	W100 357K 1% 0805 SMT RES
C81	7741	2N2 50V 10%CAP 0805 SMT X7R	C213	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	HW11	8607	3/16X1/8X.06ID NYLON SPACER	R31	7625	W100 10K0 1% 0805 SMT RES	R137	7672	W125 348R0 1% 0805 SMT RES
C82	7877	2U2 100V 20%CAP 1812 SMT X7R	C214	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	HW12	8607	3/16X1/8X.06ID NYLON SPACER	R32	7632	W100 2K32 1% 0805 SMT RES	R138	7621	W100 1K0 1% 0805 SMT RES
C83	7875	100N 100V 10%CAP 1206 SMT X7R	C215	5666	330U 400V 20%CAP BLK 25X40MM	HW13	8607	3/16X1/8X.06ID NYLON SPACER	R33	7621	W100 1K0 1% 0805 SMT RES	R139	7744	W250 4K7 5% 1206 SMT RES
C84	5980	10P 1000V 10%CAP 1206 SMT X7R	C216	5666	330U 400V 20%CAP BLK 25X40MM	HW14	8607	3/16X1/8X.06ID NYLON SPACER	R34	7637	W125 3K32 1% 0805 SMT RES	R140	7727	W100 4R7 5% 0805 SMT RES
C85	8088	10U 16V 10%CAP 0805 SMT X6S	C220	5979	100N 50V 5%CAP 0805 SMT X7R	HW15	8607	3/16X1/8X.06ID NYLON SPACER	R35	7637	W125 3K32 1% 0805 SMT RES	R141	7821	W125 10R0 1% 0805 SMT RES
C86	5971	680N 250V 5% CAPBLK RAD POLY FLM	C221	7735	4U7 50V 10%CAP 1210 SMT CER	K1	3105	RELAY 1C 10AMP DC12 030MA PC-C	R36	7637	W125 3K32 1% 0805 SMT RES	R142	7672	W125 348R0 1% 0805 SMT RES
C88	5971	680N 250V 5% CAPBLK RAD POLY FLM	C230	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	L1	7732	220.0UH COIL SMT	R37	7928	W125 10K00 0.1% 0805 SMT RES	R143	7672	W125 348R0 1% 0805 SMT RES
C89	7692	150P 50V 5%CAP 0805 SMT NPO	C231	5262	1U 275V 20%CAP BLK 'X2'26.0MM AC	L2	2910	120.0UH COIL SR4018T 1R6 SMT	R48	7671	W125 249R0 1% 0805 SMT RES	R144	7821	W125 10R0 1% 0805 SMT RES
C90	7738	10U0 16V 10%CAP 1206 SMT X7R	C232	5827	150N 250V 20%CAP BLK 'X2' 15MM AC	L3	6672	64UH CHOKE 68T20AWG/T157-2 PCBMNT	R49	7679	W100 4K99 1% 0805 SMT RES	R145	4985	W125 562K 1% 0805 SMT RES
C91	7878	1U 25V 20%CAP 1206 SMT X7R	C233	5262	1U 275V 20%CAP BLK 'X2'26.0MM AC	L4	2910	120.0UH COIL SR4018T 1R6 SMT	R50	7679	W100 4K99 1% 0805 SMT RES	R146	8051	W125 68K 5% 0805 SMT RES

M1519 01 PG2 Parts Reference List 10/2/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R147	7621	W100 1K0 1% 0805 SMT RES	R233	7626	W100 100K0 1% 0805 SMT RES	U3	7949	ZXGD3002E6 GATE DRVR 9A SMT SOT326
R148	8153	W125 5K36 1% 0805 SMT RES	R234	7626	W100 100K0 1% 0805 SMT RES	U5	7884	IRS20957S DIG AUDIO DRVR SMT SOIC
R149	8131	W500 10R 5% 1210 SMT RES	R235	7865	W125 150K 5% 0805 SMT RES	U6	8107	FOD814A OPTO-COUPLER 4P SMT IC
R150	8131	W500 10R 5% 1210 SMT RES	R236	8189	W125 4K02 0.1% 0805 SMT RES	U10	6767	AD825 HS OPAMP JFET SO-8 SMT
R151	7626	W100 100K0 1% 0805 SMT RES	R237	8228	W125 75K 1% 0805 SMT RES	U11	8121	CNY17F-2S OPTO-COUPLER 6P SMT IC
R152	7624	W100 100R 1% 0805 SMT RES	R238	7634	W100 20K5 1% 0805 SMT RES	U12	7668	MC33079D QUAD OPAMP SMT SO14
R153	7820	W100 499R 1% 0805 SMT RES	R239	7681	W125 8K25 1% 0805 SMT RES	U13	7668	MC33079D QUAD OPAMP SMT SO14
R154	7820	W100 499R 1% 0805 SMT RES	R240	7682	W125 17K8 1% 0805 SMT RES	U14	7884	IRS20957S DIG AUDIO DRVR SMT SOIC
R155	7621	W100 1K0 1% 0805 SMT RES	R241	7796	W063 1K37 1% 0603 SMT RES	U16	8124	TLV3201 SNGLE COMPARATOR SMT SOT235
R156	7621	W100 1K0 1% 0805 SMT RES	R242	7673	W100 475R 1% 0805 SMT RES	U17	7993	TL071CDR OPAMP JFET 3MHZ SO-8 SMT
R157	7637	W125 3K32 1% 0805 SMT RES	R243	7865	W125 150K 5% 0805 SMT RES	U18	7812	SN74AHC1G86 SINGLE XOR SMT SOT235
R158	7745	W125 0R 5% 0805 SMT RES	R244	8189	W125 4K02 0.1% 0805 SMT RES	U19	6652	MIC4424YM DUAL MOSFET DRVR SMT S08
R159	7675	W125 1K21 1% 0805 SMT RES	R245	7626	W100 100K0 1% 0805 SMT RES	U20	6652	MIC4424YM DUAL MOSFET DRVR SMT S08
R160	7626	W100 100K0 1% 0805 SMT RES	R246	4966	W125 40K2 1% 0805 SMT RES	U21	6666	LM5008A 100V REG 0A35 BUCK SW SMT
R161	8095	1W00 10K 5% 2512 SMT RES	R247	5000	W125 140K 1% 0805 SMT RES	U22	6652	MIC4424YM DUAL MOSFET DRVR SMT S08
R162	7852	W250 10R 5% 1206 SMT RES	R248	7646	W125 681R 1% 0805 SMT RES	U23	6651	LM5020-2 CURR MOD PWM SMT IC SSOP10
R163	7624	W100 100R 1% 0805 SMT RES	R249	7622	W100 1M0 1% 0805 SMT RES	U24	7659	LM339M QUAD SS COMP SMT SO-14
R164	7739	W250 1R 5% 1206 SMT RES	R250	7629	W125 150K0 1% 0805 SMT RES	U25	7661	LM393D DUAL COMPARATOR SMT SO-8
R165	7628	W100 15K0 1% 0805 SMT RES	R251	7820	W100 499R 1% 0805 SMT RES	U26	7661	LM393D DUAL COMPARATOR SMT SO-8
R166	8137	W125 1K62 1% 0805 SMT RES	R252	7820	W100 499R 1% 0805 SMT RES	U27	7661	LM393D DUAL COMPARATOR SMT SO-8
R167	7634	W100 20K5 1% 0805 SMT RES	R253	7626	W100 100K0 1% 0805 SMT RES	U202	8158	LNK306G OFFLINE SWITCH SMT SMD8B
R168	7624	W100 100R 1% 0805 SMT RES	R254	7626	W100 100K0 1% 0805 SMT RES	U205	7987	UCC25600 RES MODE CTRL SMT SO8
R169	7637	W125 3K32 1% 0805 SMT RES	R255	8182	W125 22K 5% 0805 SMT RES	W1	4208	10 CIR SOCKT DIL RA 0.1
R171	4995	W125 14K0 1% 0805 SMT RES	R256	8199	W125 34K0 1% 0805 SMT RES	W2	4167	2X2PIN 4.2MM RA HEADER VAL-U-LOK
R172	7852	W250 10R 5% 1206 SMT RES	R257	8228	W125 75K 1% 0805 SMT RES	W201	4146	3 PIN POWER PIN HEADER MALE POLZED
R173	7821	W125 10R0 1% 0805 SMT RES	R258	8199	W125 34K0 1% 0805 SMT RES	ZD3	7973	BAS316 100V 0A25 DIODE SOD323 SMT
R174	7672	W125 348R0 1% 0805 SMT RES	R259	8228	W125 75K 1% 0805 SMT RES	ZD201	8159	SMAZ18-13-F 18V0 1W0 5% SMT ZEN
R175	8160	W125 91K 5% 0805 SMT RES	R260	7628	W100 15K0 1% 0805 SMT RES			
R176	7759	W250 100K 5% 1206 SMT RES	R262	4974	W125 45K3 1% 0805 SMT RES			
R177	7759	W250 100K 5% 1206 SMT RES	R263	7852	W250 10R 5% 1206 SMT RES			
R178	8160	W125 91K 5% 0805 SMT RES	R265	7759	W250 100K 5% 1206 SMT RES			
R179	7821	W125 10R0 1% 0805 SMT RES	R266	7759	W250 100K 5% 1206 SMT RES			
R180	7821	W125 10R0 1% 0805 SMT RES	R267	7626	W100 100K0 1% 0805 SMT RES			
R181	7672	W125 348R0 1% 0805 SMT RES	R268	7626	W100 100K0 1% 0805 SMT RES			
R182	7821	W125 10R0 1% 0805 SMT RES	R269	8189	W125 4K02 0.1% 0805 SMT RES			
R183	8160	W125 91K 5% 0805 SMT RES	R270	5061	W125 2K87 1% 0805 SMT RES			
R184	8160	W125 91K 5% 0805 SMT RES	R271	7679	W100 4K99 1% 0805 SMT RES			
R185	7821	W125 10R0 1% 0805 SMT RES	R272	6619	_10K 5% THERMISTOR VISH NTC			
R186	7821	W125 10R0 1% 0805 SMT RES	R273	8189	W125 4K02 0.1% 0805 SMT RES			
R187	7821	W125 10R0 1% 0805 SMT RES	R274	8189	W125 4K02 0.1% 0805 SMT RES			
R188	7821	W125 10R0 1% 0805 SMT RES	R275	8321	W125 8K66 1% 0805 SMT RES			
R189	7672	W125 348R0 1% 0805 SMT RES	R276	8189	W125 4K02 0.1% 0805 SMT RES			
R190	8137	W125 1K62 1% 0805 SMT RES	R277	7852	W250 10R 5% 1206 SMT RES			
R191	8137	W125 1K62 1% 0805 SMT RES	R278	7626	W100 100K0 1% 0805 SMT RES			
R192	7759	W250 100K 5% 1206 SMT RES	R279	7626	W100 100K0 1% 0805 SMT RES			
R193	7759	W250 100K 5% 1206 SMT RES	R280	7639	W100 357K 1% 0805 SMT RES			
R194	7759	W250 100K 5% 1206 SMT RES	R281	7624	W100 100R 1% 0805 SMT RES			
R195	7759	W250 100K 5% 1206 SMT RES	R282	7672	W125 348R0 1% 0805 SMT RES			
R200	7900	W125 30K 0.5% 0805 SMT RES	R283	8008	W250 10K 5% ANTISURGE 0805 SMT RES			
R201	4966	W125 40K2 1% 0805 SMT RES	R284	8157	1W00 47K 5% 2512 SMT RES			
R202	7626	W100 100K0 1% 0805 SMT RES	R285	8157	1W00 47K 5% 2512 SMT RES			
R203	7630	W100 182K 1% 0805 SMT RES	R288	7636	W100 27K4 1% 0805 SMT RES			
R204	7625	W100 10K0 1% 0805 SMT RES	R292	7759	W250 100K 5% 1206 SMT RES			
R205	7621	W100 1K0 1% 0805 SMT RES	R293	7759	W250 100K 5% 1206 SMT RES			
R206	7634	W100 20K5 1% 0805 SMT RES	SHLD1	1667	PSAMP TRANSISTOR SHIELD PAD			
R207	7928	W125 10K00 0.1% 0805 SMT RES	SHLD2	1668	PSAMP EMI SHIELD CASE			
R208	7670	W125 47R5 1% 0805 SMT RES	T1	1249	XFMR O/P 400W PQ40/40 PS10,12,15P			
R209	7634	W100 20K5 1% 0805 SMT RES	T2	8188	XF3955 GATE DRIVE XFMR SMT			
R210	8051	W125 68K 5% 0805 SMT RES	T3	8188	XF3955 GATE DRIVE XFMR SMT			
R211	7928	W125 10K00 0.1% 0805 SMT RES	TP1	8002	TEST POINT MINIATURE SMT			
R212	4966	W125 40K2 1% 0805 SMT RES	TP2	8002	TEST POINT MINIATURE SMT			
R213	7822	W100 7K50 1% 0805 SMT RES	TP3	8002	TEST POINT MINIATURE SMT			
R214	7623	W125 1M50 1% 0805 SMT RES	TP4	8002	TEST POINT MINIATURE SMT			
R215	7635	W100 221R 1% 0805 SMT RES	TP5	8002	TEST POINT MINIATURE SMT			
R216	6622	10R 20% THERMISTOR NTC	TP7	8002	TEST POINT MINIATURE SMT			
R217	8008	W250 10K 5% ANTISURGE 0805 SMT RES	TP8	8002	TEST POINT MINIATURE SMT			
R218	7634	W100 20K5 1% 0805 SMT RES	TP9	8002	TEST POINT MINIATURE SMT			
R219	7621	W100 1K0 1% 0805 SMT RES	TP10	8002	TEST POINT MINIATURE SMT			
R220	8182	W125 22K 5% 0805 SMT RES	TP11	8002	TEST POINT MINIATURE SMT			
R222	7822	W100 7K50 1% 0805 SMT RES	TP12	8002	TEST POINT MINIATURE SMT			
R223	7622	W100 1M0 1% 0805 SMT RES	TP13	8002	TEST POINT MINIATURE SMT			
R224	7635	W100 221R 1% 0805 SMT RES	TP14	8002	TEST POINT MINIATURE SMT			
R225	7865	W125 150K 5% 0805 SMT RES	TP15	8002	TEST POINT MINIATURE SMT			
R226	8189	W125 4K02 0.1% 0805 SMT RES	TP16	8002	TEST POINT MINIATURE SMT			
R227	8228	W125 75K 1% 0805 SMT RES	TP17	8002	TEST POINT MINIATURE SMT			
R228	7865	W125 150K 5% 0805 SMT RES	TP18	8002	TEST POINT MINIATURE SMT			
R229	7681	W125 8K25 1% 0805 SMT RES	TP19	8002	TEST POINT MINIATURE SMT			
R230	8189	W125 4K02 0.1% 0805 SMT RES	TP21	8002	TEST POINT MINIATURE SMT			
R231	7634	W100 20K5 1% 0805 SMT RES	U1	7949	ZXGD3002E6 GATE DRVR 9A SMT SOT326			
R232	5074	W125 41K2 1% 0805 SMT RES	U2	6666	LM5008A 100V REG 0A35 BUCK SW SMT			

M1522 01 PG1 Parts Reference List 10/5/2020

REF	YS #	Description
C1	7737	10N 50V 10%CAP 0805 SMT X7R
C2	7878	1U 25V 20%CAP 1206 SMT X7R
C3	8096	470N 100V 10%CAP 1206 SMT X7R
C4	7875	100N 100V 10%CAP 1206 SMT X7R
C5	7877	2U2 100V 20%CAP 1812 SMT X7R
C6	5979	100N 50V 5%CAP 0805 SMT X7R
C7	7878	1U 25V 20%CAP 1206 SMT X7R
C8	8088	10U 16V 10%CAP 0805 SMT X6S
C9	5665	1500U 100V 20%CAP BLK 22X35MM
C10	7876	2U2 200V 20%CAP 3025 SMT CER
C11	7877	2U2 100V 20%CAP 1812 SMT X7R
C12	7737	10N 50V 10%CAP 0805 SMT X7R
C13	7741	2N2 50V 10%CAP 0805 SMT X7R
C14	7741	2N2 50V 10%CAP 0805 SMT X7R
C15	5665	1500U 100V 20%CAP BLK 22X35MM
C16	7748	47P 100V 5%CAP 0805 SMT NPO
C17	8088	10U 16V 10%CAP 0805 SMT X6S
C18	7693	1N 50V 5%CAP 0805 SMT NPO
C19	8092	100N 450V 10%CAP 1206 SMT X7T
C20	7737	10N 50V 10%CAP 0805 SMT X7R
C21	5979	100N 50V 5%CAP 0805 SMT X7R
C22	7693	1N 50V 5%CAP 0805 SMT NPO
C23	5979	100N 50V 5%CAP 0805 SMT X7R
C24	7737	10N 50V 10%CAP 0805 SMT X7R
C25	8272	220P 100V 10%CAP 0805 SMT X7R
C26	7748	47P 100V 5%CAP 0805 SMT NPO
C27	7735	4U7 50V 10%CAP 1210 SMT CER
C28	7735	4U7 50V 10%CAP 1210 SMT CER
C29	8092	100N 450V 10%CAP 1206 SMT X7T
C30	7877	2U2 100V 20%CAP 1812 SMT X7R
C31	7878	1U 25V 20%CAP 1206 SMT X7R
C32	5840	22N 400V 10%CAP BLK RAD POLY FLM
C34	7694	3N3 25V 5%CAP 0805 SMT NPO
C37	7694	3N3 25V 5%CAP 0805 SMT NPO
C41	5979	100N 50V 5%CAP 0805 SMT X7R
C43	5979	100N 50V 5%CAP 0805 SMT X7R
C44	5979	100N 50V 5%CAP 0805 SMT X7R
C45	7878	1U 25V 20%CAP 1206 SMT X7R
C46	7878	1U 25V 20%CAP 1206 SMT X7R
C49	7811	100U 25V 20%CAP 8X5.4 SMT ELE
C51	5516	47N 2000V 10%CAP AXL POLYPROP BULK
C53	7735	4U7 50V 10%CAP 1210 SMT CER
C54	7735	4U7 50V 10%CAP 1210 SMT CER
C55	7877	2U2 100V 20%CAP 1812 SMT X7R
C56	7877	2U2 100V 20%CAP 1812 SMT X7R
C57	7878	1U 25V 20%CAP 1206 SMT X7R
C58	7878	1U 25V 20%CAP 1206 SMT X7R
C59	8092	100N 450V 10%CAP 1206 SMT X7T
C60	7878	1U 25V 20%CAP 1206 SMT X7R
C61	7876	2U2 200V 20%CAP 3025 SMT CER
C62	8092	100N 450V 10%CAP 1206 SMT X7T
C63	7878	1U 25V 20%CAP 1206 SMT X7R
C64	7741	2N2 50V 10%CAP 0805 SMT X7R
C65	7741	2N2 50V 10%CAP 0805 SMT X7R
C66	7748	47P 100V 5%CAP 0805 SMT NPO
C67	8088	10U 16V 10%CAP 0805 SMT X6S
C68	7741	2N2 50V 10%CAP 0805 SMT X7R
C69	7878	1U 25V 20%CAP 1206 SMT X7R
C70	7737	10N 50V 10%CAP 0805 SMT X7R
C71	7693	1N 50V 5%CAP 0805 SMT NPO
C72	7738	10U0 16V 10%CAP 1206 SMT X7R
C73	5979	100N 50V 5%CAP 0805 SMT X7R
C74	7748	47P 100V 5%CAP 0805 SMT NPO
C75	5979	100N 50V 5%CAP 0805 SMT X7R
C76	7734	1U0 50V 10%CAP 1206 SMT CER
C77	7877	2U2 100V 20%CAP 1812 SMT X7R
C78	7877	2U2 100V 20%CAP 1812 SMT X7R
C79	7737	10N 50V 10%CAP 0805 SMT X7R
C80	7878	1U 25V 20%CAP 1206 SMT X7R
C81	7741	2N2 50V 10%CAP 0805 SMT X7R
C82	7877	2U2 100V 20%CAP 1812 SMT X7R
C83	7875	100N 100V 10%CAP 1206 SMT X7R
C84	5980	10P 1000V 10%CAP 1206 SMT X7R
C85	8088	10U 16V 10%CAP 0805 SMT X6S
C86	5971	680N 250V 5% CAPBLK RAD POLY FLM
C88	5971	680N 250V 5% CAPBLK RAD POLY FLM
C89	7692	150P 50V 5%CAP 0805 SMT NPO
C90	7738	10U0 16V 10%CAP 1206 SMT X7R
C91	7878	1U 25V 20%CAP 1206 SMT X7R
C92	7697	22U 16V 5%CAP 5X5.5 SMT ELC
C93	7734	1U0 50V 10%CAP 1206 SMT CER
C94	7734	1U0 50V 10%CAP 1206 SMT CER
C95	7697	22U 16V 5%CAP 5X5.5 SMT ELC
C96	7877	2U2 100V 20%CAP 1812 SMT X7R
C97	7877	2U2 100V 20%CAP 1812 SMT X7R
C98	7741	2N2 50V 10%CAP 0805 SMT X7R
C99	7878	1U 25V 20%CAP 1206 SMT X7R
C100	7875	100N 100V 10%CAP 1206 SMT X7R
C101	7875	100N 100V 10%CAP 1206 SMT X7R
C102	7694	3N3 25V 5%CAP 0805 SMT NPO
C104	7877	2U2 100V 20%CAP 1812 SMT X7R
C105	8096	470N 100V 10%CAP 1206 SMT X7R
C106	7694	3N3 25V 5%CAP 0805 SMT NPO
C107	7737	10N 50V 10%CAP 0805 SMT X7R
C108	7735	4U7 50V 10%CAP 1210 SMT CER
C109	7735	4U7 50V 10%CAP 1210 SMT CER
C110	7737	10N 50V 10%CAP 0805 SMT X7R
C111	7927	100P 50V 10%CAP 0805 SMT NPO
C112	7735	4U7 50V 10%CAP 1210 SMT CER
C113	7927	100P 50V 10%CAP 0805 SMT NPO
C114	7693	1N 50V 5%CAP 0805 SMT NPO
C115	7735	4U7 50V 10%CAP 1210 SMT CER
C116	7693	1N 50V 5%CAP 0805 SMT NPO
C117	5979	100N 50V 5%CAP 0805 SMT X7R
C118	7737	10N 50V 10%CAP 0805 SMT X7R
C119	5665	1500U 100V 20%CAP BLK 22X35MM
C120	5665	1500U 100V 20%CAP BLK 22X35MM
C121	5665	1500U 100V 20%CAP BLK 22X35MM
C122	5665	1500U 100V 20%CAP BLK 22X35MM
C123	7735	4U7 50V 10%CAP 1210 SMT CER
C124	7735	4U7 50V 10%CAP 1210 SMT CER
C125	5840	22N 400V 10%CAP BLK RAD POLY FLM
C126	7737	10N 50V 10%CAP 0805 SMT X7R
C127	7875	100N 100V 10%CAP 1206 SMT X7R
C128	7693	1N 50V 5%CAP 0805 SMT NPO
C129	7694	3N3 25V 5%CAP 0805 SMT NPO
C130	7931	270P 50V 5%CAP 0805 SMT NPO
C131	7737	10N 50V 10%CAP 0805 SMT X7R
C132	7737	10N 50V 10%CAP 0805 SMT X7R
C133	8096	470N 100V 10%CAP 1206 SMT X7R
C134	7734	1U0 50V 10%CAP 1206 SMT CER
C135	7748	47P 100V 5%CAP 0805 SMT NPO
C136	7737	10N 50V 10%CAP 0805 SMT X7R
C137	7748	47P 100V 5%CAP 0805 SMT NPO
C138	7737	10N 50V 10%CAP 0805 SMT X7R
C139	7878	1U 25V 20%CAP 1206 SMT X7R
C140	7748	47P 100V 5%CAP 0805 SMT NPO
C141	7877	2U2 100V 20%CAP 1812 SMT X7R
C142	7799	5N6 50V 5%CAP 0805 SMT C0G
C143	7799	5N6 50V 5%CAP 0805 SMT C0G
C144	7734	1U0 50V 10%CAP 1206 SMT CER
C145	5979	100N 50V 5%CAP 0805 SMT X7R
C146	5979	100N 50V 5%CAP 0805 SMT X7R
C147	7878	1U 25V 20%CAP 1206 SMT X7R
C148	7878	1U 25V 20%CAP 1206 SMT X7R
C149	7878	1U 25V 20%CAP 1206 SMT X7R
C150	7878	1U 25V 20%CAP 1206 SMT X7R
C151	7878	1U 25V 20%CAP 1206 SMT X7R
C152	7878	1U 25V 20%CAP 1206 SMT X7R
C153	7735	4U7 50V 10%CAP 1210 SMT CER
C154	7735	4U7 50V 10%CAP 1210 SMT CER
C155	7878	1U 25V 20%CAP 1206 SMT X7R
C156	7878	1U 25V 20%CAP 1206 SMT X7R
C157	7878	1U 25V 20%CAP 1206 SMT X7R
C158	7878	1U 25V 20%CAP 1206 SMT X7R
C159	7878	1U 25V 20%CAP 1206 SMT X7R
C204	7734	1U0 50V 10%CAP 1206 SMT CER
C209	6545	1N 250V 20%CAP BLK 'Y' 10MM AC
C210	5972	680N 400V 5%CAP BLK RAD POLY FLM
C213	6545	1N 250V 20%CAP BLK 'Y' 10MM AC
C214	6545	1N 250V 20%CAP BLK 'Y' 10MM AC
C215	5663	1200U 200V 20%CAP BLK 25X40MM
C216	5663	1200U 200V 20%CAP BLK 25X40MM
C220	5979	100N 50V 5%CAP 0805 SMT X7R
C221	7735	4U7 50V 10%CAP 1210 SMT CER
C230	6545	1N 250V 20%CAP BLK 'Y' 10MM AC
C231	5262	1U 275V 20%CAP BLK 'X2'26.0MM AC
C232	5827	150N 250V 20%CAP BLK 'X2' 15MM AC
C233	5262	1U 275V 20%CAP BLK 'X2'26.0MM AC
C236	7734	1U0 50V 10%CAP 1206 SMT CER
C237	7601	220N 50V 10%CAP 1206 SMT X7R
C239	7737	10N 50V 10%CAP 0805 SMT X7R
C243	5979	100N 50V 5%CAP 0805 SMT X7R
C244	7738	10U0 16V 10%CAP 1206 SMT X7R
D1	8109	BAV21WS 200V 0A2 SOD323 SMT
D2	7889	ES3D 200V 3A0 D214 SMT SMC
D3	7889	ES3D 200V 3A0 D214 SMT SMC
D4	7848	MURA240T3 400V 2A DIO 403D SMT
D5	8109	BAV21WS 200V 0A2 SOD323 SMT
D6	8109	BAV21WS 200V 0A2 SOD323 SMT
D7	8109	BAV21WS 200V 0A2 SOD323 SMT
D8	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN
D9	7914	MMBZ5231B 5V1 0W35 5% SMT ZEN
D10	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN
D14	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN
D17	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN
D18	8076	MMSZ4690T1G 5V6 0W5 5% SMT ZEN
D19	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN
D20	7889	ES3D 200V 3A0 D214 SMT SMC
D21	7889	ES3D 200V 3A0 D214 SMT SMC
D22	7848	MURA240T3 400V 2A DIO 403D SMT
D23	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN
D24	8109	BAV21WS 200V 0A2 SOD323 SMT
D25	8109	BAV21WS 200V 0A2 SOD323 SMT
D26	8185	SMBJ5371B 60V 5W0 DO214AA SMT ZEN
D27	8109	BAV21WS 200V 0A2 SOD323 SMT
D28	8109	BAV21WS 200V 0A2 SOD323 SMT
D29	7996	SMAZ10-13-F 10V0 1W0 10% SMT ZEN
D30	7996	SMAZ10-13-F 10V0 1W0 10% SMT ZEN
D31	8185	SMBJ5371B 60V 5W0 DO214AA SMT ZEN
D32	8109	BAV21WS 200V 0A2 SOD323 SMT
D34	8109	BAV21WS 200V 0A2 SOD323 SMT
D35	7965	DFLZ5V1-7 5V1 1W0 5% SMT ZEN
D36	8085	ES1H 500V 1A0 D214 UPGT 8814
D37	7996	SMAZ10-13-F 10V0 1W0 10% SMT ZEN
D39	7848	MURA240T3 400V 2A DIO 403D SMT
D40	8109	BAV21WS 200V 0A2 SOD323 SMT
D41	8109	BAV21WS 200V 0A2 SOD323 SMT
D43	7914	MMBZ5231B 5V1 0W35 5% SMT ZEN
D44	7750	CDSF4148 75V 0A15 1005 SMT
D45	7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN
D46	7914	MMBZ5231B 5V1 0W35 5% SMT ZEN
D47	6649	CDBF0130L 30V 1A SCH SOD323F SMT
D48	7973	BAS316 100V 0A25 DIODE SOD323 SMT
D50	7750	CDSF4148 75V 0A15 1005 SMT
D51	7750	CDSF4148 75V 0A15 1005 SMT
D52	8109	BAV21WS 200V 0A2 SOD323 SMT
D53	7750	CDSF4148 75V 0A15 1005 SMT
D54	8109	BAV21WS 200V 0A2 SOD323 SMT
D55	7750	CDSF4148 75V 0A15 1005 SMT
D57	6649	CDBF0130L 30V 1A SCH SOD323F SMT
D58	6649	CDBF0130L 30V 1A SCH SOD323F SMT
D59	6649	CDBF0130L 30V 1A SCH SOD323F SMT
D60	7617	BZX84C15LT1 15V0 0W225 ZEN SOT23
D61	7617	BZX84C15LT1 15V0 0W225 ZEN SOT23
D62	7750	CDSF4148 75V 0A15 1005 SMT
D201	6772	BRIDGE 25A 400V WIRE LEAD SIP
D203	6845	MUR1640CTG 400V 8A DIODE DUAL CC
D206	7848	MURA240T3 400V 2A DIO 403D SMT
D207	7848	MURA240T3 400V 2A DIO 403D SMT
D220	6843	MUR1620CTRG 200V 16A DIODE DUAL CA
HW1	9067	1/8X5/16XID.64 NYLON SPACER
HW2	9067	1/8X5/16XID.64 NYLON SPACER
HW3	9067	1/8X5/16XID.64 NYLON SPACER
HW4	9067	1/8X5/16XID.64 NYLON SPACER
HW5	9067	1/8X5/16XID.64 NYLON SPACER
HW6	9067	1/8X5/16XID.64 NYLON SPACER
HW7	9067	1/8X5/16XID.64 NYLON SPACER
HW8	9067	1/8X5/16XID.64 NYLON SPACER
HW11	8607	3/16X1/8X.06ID NYLON SPACER
HW12	8607	3/16X1/8X.06ID NYLON SPACER
HW13	8607	3/16X1/8X.06ID NYLON SPACER
HW14	8607	3/16X1/8X.06ID NYLON SPACER
HW15	8607	3/16X1/8X.06ID NYLON SPACER
K1	3105	RELAY 1C 10AMP DC12 030MA PC-C
L1	7732	220.0UH COIL SMT
L2	2910	120.0UH COIL SR4018T 1R6 SMT
L3	6672	64UH CHOKE 68T20AWG/T157-2 PCBMNT
L4	2910	120.0UH COIL SR4018T 1R6 SMT
L5	6672	64UH CHOKE 68T20AWG/T157-2 PCBMNT
L7	8108	120UH COIL 0R4 10MMSQ SMT
L8	7941	8.2UH COIL 1210 SMT
L9	6507	3.3MH COIL COMMON MODE 5A
L10	6507	3.3MH COIL COMMON MODE 5A
L11	2910	120.0UH COIL SR4018T 1R6 SMT
L12	7732	220.0UH COIL SMT
L13	2910	120.0UH COIL SR4018T 1R6 SMT
L204	3109	25UH COIL E44 FERR 14T 19AWG LITZ
L219	7974	1000UH 10% COIL 12MM SMT
Q1	6972	IRFB4227PBF TO220 NCH MFET TM
Q2	6763	IRFI4020H-117P MFET HLFBRDG TO220-5
Q3	6972	IRFB4227PBF TO220 NCH MFET TM
Q4	7720	TL431A 3 TERM ADJ VREG SMT SOT-23
Q5	7837	MMBT5401 PNP SOT-23 SMT
Q8	7665	MMBT4401 NPN SOT-23 SMT
Q9	7806	MMBF4391LT1 NCH JFET SOT-23 SMT T&R
Q10	8107	FOD814A OPTO-COUPLER 4P SMT IC
Q11	6977	FDT3612 NCH MFET SOT-223 SMT
Q12	8165	MMBTA92 PNP SOT-23 SMT
Q13	7806	MMBF4391LT1 NCH JFET SOT-23 SMT T&R
Q16	7701	MMBTA14 NPN DARL SOT-23 SMT
Q17	7837	MMBT5401 PNP SOT-23 SMT
Q18	7665	MMBT4401 NPN SOT-23 SMT
Q19	8022	MMBTA64LT1G PNP DARL SOT-23 SMT
Q20	7701	MMBTA14 NPN DARL SOT-23 SMT
Q21	7665	MMBT4401 NPN SOT-23 SMT
Q22	7837	MMBT5401 PNP SOT-23 SMT
Q23	8022	MMBTA64LT1G PNP DARL SOT-23 SMT
Q24	7701	MMBTA14 NPN DARL SOT-23 SMT
Q25	7665	MMBT4401 NPN SOT-23 SMT
Q26	7837	MMBT5401 PNP SOT-23 SMT
Q27	8022	MMBTA64LT1G PNP DARL SOT-23 SMT
Q28	7665	MMBT4401 NPN SOT-23 SMT
Q29	7701	MMBTA14 NPN DARL SOT-23 SMT
Q30	7844	MJD243T4G NPN DPAK3 SMT TS
Q31	7845	MJD253T4G PNP DPAK3 SMT TS
Q32	7806	MMBF4391LT1 NCH JFET SOT-23 SMT T&R
Q33	7806	MMBF4391LT1 NCH JFET SOT-23 SMT T&R
Q34	7837	MMBT5401 PNP SOT-23 SMT
Q35	7665	MMBT4401 NPN SOT-23 SMT
Q206	6975	SPW35N60CFD MOSFET N-CN 600V TO-247
Q207	6975	SPW35N60CFD MOSFET N-CN 600V TO-247
R1	7679	W100 4K99 1% 0805 SMT RES
R2	7621	W100 1K0 1% 0805 SMT RES
R4	4985	W125 562K 1% 0805 SMT RES
R5	7621	W100 1K0 1% 0805 SMT RES
R6	7998	W750 0R 1% 2010 SMT JMP
R8	8157	1W00 47K 5% 2512 SMT RES
R9	8095	1W00 10K 5% 2512 SMT RES
R10	8012	1W00 4R7 5% 2512 SMT RES
R11	7686	W100 274K 1% 0805 SMT RES
R12	7739	W250 1R 5% 1206 SMT RES
R13	7852	W250 10R 5% 1206 SMT RES
R14	8012	1W00 4R7 5% 2512 SMT RES
R15	8012	1W00 4R7 5% 2512 SMT RES
R16	7928	W125 10K00 0.1% 0805 SMT RES
R17	7634	W100 20K5 1% 0805 SMT RES
R18	7672	W125 348R0 1% 0805 SMT RES
R19	7627	W100 13K 1% 0805 SMT RES
R20	4974	W125 45K3 1% 0805 SMT RES
R21	8093	1W00 15K 5% 2512 SMT RES
R22	8153	W125 5K36 1% 0805 SMT RES
R23	7621	W100 1K0 1% 0805 SMT RES
R24	7621	W100 1K0 1% 0805 SMT RES
R26	4964	W125 68R1 1% 0805 SMT RES
R27	7624	W100 100R 1% 0805 SMT RES
R29	7852	W250 10R 5% 1206 SMT RES
R30	8012	1W00 4R7 5% 2512 SMT RES
R31	7625	W100 10K0 1% 0805 SMT RES
R32	7632	W100 2K32 1% 0805 SMT RES
R33	7621	W100 1K0 1% 0805 SMT RES
R34	7637	W125 3K32 1% 0805 SMT RES
R35	7637	W125 3K32 1% 0805 SMT RES
R36	7637	W125 3K32 1% 0805 SMT RES
R37	7928	W125 10K00 0.1% 0805 SMT RES
R48	7671	W125 249R0 1% 0805 SMT RES
R49	7679	W100 4K99 1% 0805 SMT RES
R50	7679	W100 4K99 1% 0805 SMT RES
R52	7670	W125 47R5 1% 0805 SMT RES
R53	8131	W500 10R 5% 1210 SMT RES
R54	7824	W125 47K5 1% 0805 SMT RES
R57	8131	W500 10R 5% 1210 SMT RES
R58	7679	W100 4K99 1% 0805 SMT RES
R59	7928	W125 10K00 0.1% 0805 SMT RES
R60	8094	1W00 33K 5% 2512 SMT RES
R61	4615	W250 4R7 5% 1206 SMT RES
R62	7930	W250 22R 5% 1206 SMT RES
R63	7930	W250 22R 5% 1206 SMT RES
R64	7679	W100 4K99 1% 0805 SMT RES
R65	7709	W100 301R 1% 0805 SMT RES
R66	7627	W100 13K 1% 0805 SMT RES
R67	7900	W125 30K 0.5% 0805 SMT RES
R68	8093	1W00 15K 5% 2512 SMT RES
R69	7928	W125 10K00 0.1% 0805 SMT RES
R70	7671	W125 249R0 1% 0805 SMT RES
R71	7621	W100 1K0 1% 0805 SMT RES
R72	4971	1W00 39K 5% 2512 SMT RES
R73	8094	1W00 33K 5% 2512 SMT RES
R74	7670	W125 47R5 1% 0805 SMT RES
R75	7651	W250 1M0 1% 1206 SMT RES
R76	8160	W125 91K 5% 0805 SMT RES
R77	7852	W250 10R 5% 1206 SMT RES
R78	8012	1W00 4R7 5% 2512 SMT RES
R79	7822	W100 7K50 1% 0805 SMT RES
R80	7621	W100 1K0 1% 0805 SMT RES
R82	7679	W100 4K99 1% 0805 SMT RES
R83	7928	W125 10K00 0.1% 0805 SMT RES
R84	7679	W100 4K99 1% 0805 SMT RES
R85	7675	W125 1K21 1% 0805 SMT RES
R86	7675	W125 1K21 1% 0805 SMT RES
R87	7630	W100 182K 1% 0805 SMT RES
R89	7998	W750 0R 1% 2010 SMT JMP
R90	7628	W100 15K0 1% 0805 SMT RES
R91	7821	W125 10R0 1% 0805 SMT RES
R92	7744	W250 4K7 5% 1206 SMT RES
R93	8137	W125 1K62 1% 0805 SMT RES
R94	7761	W100 12K1 1% 0603 SMT RES
R95	7679	W100 4K99 1% 0805 SMT RES
R97	7679	W100 4K99 1% 0805 SMT RES
R98	7928	W125 10K00 0.1% 0805 SMT RES
R99	7928	W125 10K00 0.1% 0805 SMT RES
R100	7679	W100 4K99 1% 0805 SMT RES
R101	8137	W125 1K62 1% 0805 SMT RES
R102	8137	W125 1K62 1% 0805 SMT RES
R105	7672	W125 348R0 1% 0805 SMT RES
R106	7633	W100 2K74 1% 0805 SMT RES
R109	7637	W125 3K32 1% 0805 SMT RES
R110	7637	W125 3K32 1% 0805 SMT RES
R113	7637	W125 3K32 1% 0805 SMT RES
R114	8189	W125 4K02 0.1% 0805 SMT RES
R115	7649	W125 1K50 1% 0805 SMT RES
R118	8183	1W00 2R0 1% 2512 SMT RES
R120	7852	W250 10R 5% 1206 SMT RES
R121	7824	W125 47K5 1% 0805 SMT RES
R122	7865	W125 150K 5% 0805 SMT RES
R123	7824	W125 47K5 1% 0805 SMT RES
R124	8008	W250 10K 5% ANTISURGE 0805 SMT RES
R125	8008	W250 10K 5% ANTISURGE 0805 SMT RES
R126	7632	W100 2K32 1% 0805 SMT RES
R127	7621	W100 1K0 1% 0805 SMT RES
R128	7621	W100 1K0 1% 0805 SMT RES
R129	7632	W100 2K32 1% 0805 SMT RES
R130	7824	W125 47K5 1% 0805 SMT RES
R131	8160	W125 91K 5% 0805 SMT RES
R132	7622	W100 1M0 1% 0805 SMT RES
R133	4971	1W00 39K 5% 2512 SMT RES
R135	7637	W125 3K32 1% 0805 SMT RES
R136	7639	W100 357K 1% 0805 SMT RES
R137	7672	W125 348R0 1% 0805 SMT RES
R138	7621	W100 1K0 1% 0805 SMT RES
R139	7744	W250 4K7 5% 1206 SMT RES
R140	7727	W100 4R7 5% 0805 SMT RES
R141	7821	W125 10R0 1% 0805 SMT RES
R142	7672	W125 348R0 1% 0805 SMT RES
R143	7672	W125 348R0 1% 0805 SMT RES
R144	7821	W125 10R0 1% 0805 SMT RES
R145	4985	W125 562K 1% 0805 SMT RES
R146	8051	W125 68K 5% 0805 SMT RES
R147	7621	W100 1K0 1% 0805 SMT RES

M1522 01 PG2 Parts Reference List 10/5/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R148	8153	W125 5K36 1% 0805 SMT RES	R234	7626	W100 100K0 1% 0805 SMT RES	U5	7884	IRS20957S DIG AUDIO DRVR SMT SOIC
R149	8131	W500 10R 5% 1210 SMT RES	R235	7865	W125 150K 5% 0805 SMT RES	U6	8107	FOD814A OPTO-COUPLER 4P SMT IC
R150	8131	W500 10R 5% 1210 SMT RES	R236	8189	W125 4K02 0.1% 0805 SMT RES	U10	6767	AD825 HS OPAMP JFET SO-8 SMT
R151	7626	W100 100K0 1% 0805 SMT RES	R237	8228	W125 75K 1% 0805 SMT RES	U11	8121	CNY17F-2S OPTO-COUPLER 6P SMT IC
R152	7624	W100 100R 1% 0805 SMT RES	R238	7634	W100 20K5 1% 0805 SMT RES	U12	7668	MC33079D QUAD OPAMP SMT SO14
R153	7820	W100 499R 1% 0805 SMT RES	R239	7681	W125 8K25 1% 0805 SMT RES	U13	7668	MC33079D QUAD OPAMP SMT SO14
R154	7820	W100 499R 1% 0805 SMT RES	R240	7682	W125 17K8 1% 0805 SMT RES	U14	7884	IRS20957S DIG AUDIO DRVR SMT SOIC
R155	7621	W100 1K0 1% 0805 SMT RES	R241	7796	W063 1K37 1% 0603 SMT RES	U16	8124	TLV3201 SNGLE COMPARATOR SMT SOT235
R156	7621	W100 1K0 1% 0805 SMT RES	R242	7673	W100 475R 1% 0805 SMT RES	U17	7993	TL071CDR OPAMP JFET 3MHZ SO-8 SMT
R157	7637	W125 3K32 1% 0805 SMT RES	R243	7865	W125 150K 5% 0805 SMT RES	U18	7812	SN74AHC1G86 SINGLE XOR SMT SOT235
R158	7745	W125 0R 5% 0805 SMT RES	R244	8189	W125 4K02 0.1% 0805 SMT RES	U19	6652	MIC4424YM DUAL MOSFET DRVR SMT S08
R159	7675	W125 1K21 1% 0805 SMT RES	R245	7626	W100 100K0 1% 0805 SMT RES	U20	6652	MIC4424YM DUAL MOSFET DRVR SMT S08
R160	7626	W100 100K0 1% 0805 SMT RES	R246	4966	W125 40K2 1% 0805 SMT RES	U21	6666	LM5008A 100V REG 0A35 BUCK SW SMT
R161	8095	1W00 10K 5% 2512 SMT RES	R247	5000	W125 140K 1% 0805 SMT RES	U22	6652	MIC4424YM DUAL MOSFET DRVR SMT S08
R162	7852	W250 10R 5% 1206 SMT RES	R248	7646	W125 681R 1% 0805 SMT RES	U23	6651	LM5020-2 CURR MOD PWM SMT IC SSOP10
R163	7624	W100 100R 1% 0805 SMT RES	R249	7622	W100 1M0 1% 0805 SMT RES	U24	7659	LM339M QUAD SS COMP SMT SO-14
R164	7739	W250 1R 5% 1206 SMT RES	R250	7629	W125 150K0 1% 0805 SMT RES	U25	7661	LM393D DUAL COMPARATOR SMT SO-8
R165	7628	W100 15K0 1% 0805 SMT RES	R251	7820	W100 499R 1% 0805 SMT RES	U26	7661	LM393D DUAL COMPARATOR SMT SO-8
R166	8137	W125 1K62 1% 0805 SMT RES	R252	7820	W100 499R 1% 0805 SMT RES	U27	7661	LM393D DUAL COMPARATOR SMT SO-8
R167	7634	W100 20K5 1% 0805 SMT RES	R253	7626	W100 100K0 1% 0805 SMT RES	U202	8158	LNK306G OFFLINE SWITCH SMT SMD8B
R168	7624	W100 100R 1% 0805 SMT RES	R254	7626	W100 100K0 1% 0805 SMT RES	U205	7987	UCC25600 RES MODE CTRL SMT SO8
R169	7637	W125 3K32 1% 0805 SMT RES	R255	8182	W125 22K 5% 0805 SMT RES	W1	4208	10 CIR SOCKT DIL RA 0.1
R171	4995	W125 14K0 1% 0805 SMT RES	R256	8199	W125 34K0 1% 0805 SMT RES	W2	4167	2X2PIN 4.2MM RA HEADER VAL-U-LOK
R172	7852	W250 10R 5% 1206 SMT RES	R257	8228	W125 75K 1% 0805 SMT RES	W201	4146	3 PIN POWER PIN HEADER MALE POLZED
R173	7821	W125 10R0 1% 0805 SMT RES	R258	8199	W125 34K0 1% 0805 SMT RES	ZD3	7973	BAS316 100V 0A25 DIODE SOD323 SMT
R174	7672	W125 348R0 1% 0805 SMT RES	R259	8228	W125 75K 1% 0805 SMT RES	ZD201	8159	SMAZ18-13-F 18V0 1W0 5% SMT ZEN
R175	8160	W125 91K 5% 0805 SMT RES	R260	7628	W100 15K0 1% 0805 SMT RES			
R176	7759	W250 100K 5% 1206 SMT RES	R262	4974	W125 45K3 1% 0805 SMT RES			
R177	7759	W250 100K 5% 1206 SMT RES	R263	7852	W250 10R 5% 1206 SMT RES			
R178	8160	W125 91K 5% 0805 SMT RES	R265	7759	W250 100K 5% 1206 SMT RES			
R179	7821	W125 10R0 1% 0805 SMT RES	R266	7759	W250 100K 5% 1206 SMT RES			
R180	7821	W125 10R0 1% 0805 SMT RES	R267	7626	W100 100K0 1% 0805 SMT RES			
R181	7672	W125 348R0 1% 0805 SMT RES	R268	7626	W100 100K0 1% 0805 SMT RES			
R182	7821	W125 10R0 1% 0805 SMT RES	R269	8189	W125 4K02 0.1% 0805 SMT RES			
R183	8160	W125 91K 5% 0805 SMT RES	R270	5061	W125 2K87 1% 0805 SMT RES			
R184	8160	W125 91K 5% 0805 SMT RES	R271	7679	W100 4K99 1% 0805 SMT RES			
R185	7821	W125 10R0 1% 0805 SMT RES	R272	6619	10K 5% THERMISTOR VISH NTC			
R186	7821	W125 10R0 1% 0805 SMT RES	R273	8189	W125 4K02 0.1% 0805 SMT RES			
R187	7821	W125 10R0 1% 0805 SMT RES	R274	8189	W125 4K02 0.1% 0805 SMT RES			
R188	7821	W125 10R0 1% 0805 SMT RES	R275	8321	W125 8K66 1% 0805 SMT RES			
R189	7672	W125 348R0 1% 0805 SMT RES	R276	8189	W125 4K02 0.1% 0805 SMT RES			
R190	8137	W125 1K62 1% 0805 SMT RES	R277	7852	W250 10R 5% 1206 SMT RES			
R191	8137	W125 1K62 1% 0805 SMT RES	R278	7626	W100 100K0 1% 0805 SMT RES			
R192	7759	W250 100K 5% 1206 SMT RES	R279	7626	W100 100K0 1% 0805 SMT RES			
R193	7759	W250 100K 5% 1206 SMT RES	R280	7639	W100 357K 1% 0805 SMT RES			
R194	7759	W250 100K 5% 1206 SMT RES	R281	7624	W100 100R 1% 0805 SMT RES			
R195	7759	W250 100K 5% 1206 SMT RES	R282	7672	W125 348R0 1% 0805 SMT RES			
R200	7900	W125 30K 0.5% 0805 SMT RES	R283	8008	W250 10K 5% ANTISURGE 0805 SMT RES			
R201	4966	W125 40K2 1% 0805 SMT RES	R284	8157	1W00 47K 5% 2512 SMT RES			
R202	7626	W100 100K0 1% 0805 SMT RES	R285	8157	1W00 47K 5% 2512 SMT RES			
R203	7630	W100 182K 1% 0805 SMT RES	R288	7636	W100 27K4 1% 0805 SMT RES			
R204	7625	W100 10K0 1% 0805 SMT RES	R292	7759	W250 100K 5% 1206 SMT RES			
R205	7621	W100 1K0 1% 0805 SMT RES	R293	7759	W250 100K 5% 1206 SMT RES			
R206	7634	W100 20K5 1% 0805 SMT RES	SHLD1	1667	PSAMP TRANSISTOR SHIELD PAD			
R207	7928	W125 10K00 0.1% 0805 SMT RES	SHLD2	1668	PSAMP EMI SHIELD CASE			
R208	7670	W125 47R5 1% 0805 SMT RES	T1	1249	XFMR O/P 400W PQ40/40 PS10,12,15P			
R209	7634	W100 20K5 1% 0805 SMT RES	T2	8188	XF3955 GATE DRIVE XFMR SMT			
R210	8051	W125 68K 5% 0805 SMT RES	T3	8188	XF3955 GATE DRIVE XFMR SMT			
R211	7928	W125 10K00 0.1% 0805 SMT RES	TP1	8002	TEST POINT MINIATURE SMT			
R212	4966	W125 40K2 1% 0805 SMT RES	TP2	8002	TEST POINT MINIATURE SMT			
R213	7822	W100 7K50 1% 0805 SMT RES	TP3	8002	TEST POINT MINIATURE SMT			
R214	7623	W125 1M50 1% 0805 SMT RES	TP4	8002	TEST POINT MINIATURE SMT			
R215	7635	W100 221R 1% 0805 SMT RES	TP5	8002	TEST POINT MINIATURE SMT			
R216	6622	10R 20% THERMISTOR NTC	TP7	8002	TEST POINT MINIATURE SMT			
R217	8008	W250 10K 5% ANTISURGE 0805 SMT RES	TP8	8002	TEST POINT MINIATURE SMT			
R218	7634	W100 20K5 1% 0805 SMT RES	TP9	8002	TEST POINT MINIATURE SMT			
R219	7621	W100 1K0 1% 0805 SMT RES	TP10	8002	TEST POINT MINIATURE SMT			
R220	8182	W125 22K 5% 0805 SMT RES	TP11	8002	TEST POINT MINIATURE SMT			
R222	7822	W100 7K50 1% 0805 SMT RES	TP12	8002	TEST POINT MINIATURE SMT			
R223	7622	W100 1M0 1% 0805 SMT RES	TP13	8002	TEST POINT MINIATURE SMT			
R224	7635	W100 221R 1% 0805 SMT RES	TP14	8002	TEST POINT MINIATURE SMT			
R225	7865	W125 150K 5% 0805 SMT RES	TP15	8002	TEST POINT MINIATURE SMT			
R226	8189	W125 4K02 0.1% 0805 SMT RES	TP16	8002	TEST POINT MINIATURE SMT			
R227	8228	W125 75K 1% 0805 SMT RES	TP17	8002	TEST POINT MINIATURE SMT			
R228	7865	W125 150K 5% 0805 SMT RES	TP18	8002	TEST POINT MINIATURE SMT			
R229	7681	W125 8K25 1% 0805 SMT RES	TP19	8002	TEST POINT MINIATURE SMT			
R230	8189	W125 4K02 0.1% 0805 SMT RES	TP21	8002	TEST POINT MINIATURE SMT			
R231	7634	W100 20K5 1% 0805 SMT RES	U1	7949	ZXGD3002E6 GATE DRVR 9A SMT SOT326			
R232	5074	W125 41K2 1% 0805 SMT RES	U2	6666	LM5008A 100V REG 0A35 BUCK SW SMT			
R233	7626	W100 100K0 1% 0805 SMT RES	U3	7949	ZXGD3002E6 GATE DRVR 9A SMT SOT326			

M1523 01 Parts Reference List 10/2/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
C1		470P 50V 5%CAP 0603 SMT NPO	D5		CDSF4148 75V 0A15 1005 SMT	R58		W100 100R 1% 0805 SMT RES						
C2		470P 50V 5%CAP 0603 SMT NPO	D6		MBRA340T3 40V 3A SHTKY 403D SMT	R62		W125 470R 5% 0805 SMT RES						
C3		100N 25V 10%CAP 0805 SMT X7R	D7		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	R63		W125 470R 5% 0805 SMT RES						
C4		100N 25V 10%CAP 0805 SMT X7R	D8		CDSF4148 75V 0A15 1005 SMT	R64		W125 1K02 0.1% 0805 SMT RES						
C5		2N7 100V 10%CAP 0805 SMT X7R	D9		CDSF4148 75V 0A15 1005 SMT	R65		W100 18K2 1% 0805 SMT RES						
C6		2N7 100V 10%CAP 0805 SMT X7R	D10		CDSF4148 75V 0A15 1005 SMT	R66		W125 470R 5% 0805 SMT RES						
C7		22U 25V 20%CAP 1210 SMT X7R	D11		CDSF4148 75V 0A15 1005 SMT	R67		W125 470R 5% 0805 SMT RES						
C8		22U 25V 20%CAP 1210 SMT X7R	D12		CDSF4148 75V 0A15 1005 SMT	R68		W125 10K 5% 0805 SMT RES						
C9		10U 10V 10%CAP 1206 SMT X5R	D13		CDSF4148 75V 0A15 1005 SMT	R69		W125 470R 5% 0805 SMT RES						
C10		10U 10V 10%CAP 1206 SMT X5R	D14		MMBZ5231B 5V1 0W35 5% SMT ZEN	R70		W100 2K74 1% 0805 SMT RES						
C11		10U 10V 10%CAP 1206 SMT X5R	D15		MMBZ5231B 5V1 0W35 5% SMT ZEN	R71		W100 2K74 1% 0805 SMT RES						
C12		10U 10V 10%CAP 1206 SMT X5R	D16		SMAJ150CA 150V 400W BIDIR SMT	R72		W125 1K02 0.1% 0805 SMT RES						
C13		10U 10V 10%CAP 1206 SMT X5R	D17		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	R73		W125 1K02 0.1% 0805 SMT RES						
C14		100N 16V 10%CAP 0603 SMT X7R	D18		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	R74		W125 1K02 0.1% 0805 SMT RES						
C15		15P 50V 5%CAP 0603 SMT NPO	J1	4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	R75		W125 1K02 0.1% 0805 SMT RES						
C17		100N 25V 10%CAP 0805 SMT X7R	J2	4100	XLR MALE PCB MT VERT	R76		W100 20K5 1% 0805 SMT RES						
C18		100N 16V 10%CAP 0603 SMT X7R	J4	4063	1/4IN ISO JCK PCMT VT STER RT SWT	R77		W125 10K 5% 0805 SMT RES						
C19		100N 25V 10%CAP 0805 SMT X7R	J5	3466	RCA DUAL PCB MT VERT GOLD 24MM	R78		W125 10K 5% 0805 SMT RES						
C20		82N 100V 10%CAP 0805 SMT X7R	J6	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	R79		W125 10K 5% 0805 SMT RES						
C21		100N 25V 10%CAP 0805 SMT X7R	K1	3696	RELAY 1C 02AMP DC24 006MA PC-S	R80		W125 330R 0.5% 0805 SMT RES						
C22		82N 100V 10%CAP 0805 SMT X7R	L1		120.0UH COIL A34 1R6 SMT	R88		W125 1K02 0.1% 0805 SMT RES						
C23		100N 16V 10%CAP 0603 SMT X7R	L3		8.2UH COIL 1210 SMT	R89		W125 330R 0.5% 0805 SMT RES						
C24		82N 100V 10%CAP 0805 SMT X7R	LD1	6405	RED 3MM LED 2V1 20MA DIFFUSD	R90		W125 1K02 0.1% 0805 SMT RES						
C25		2N7 100V 10%CAP 0805 SMT X7R	LD2	6400	YEL 3MM LED 2V1 20MA DIFFUSD	R91		W100 18K2 1% 0805 SMT RES						
C26		1N5 50V 5%CAP 0805 SMT NPO	LD3	6408	GRN 3MM LED 2V2 20MA DIFFUSD	R92		W125 1K02 0.1% 0805 SMT RES						
C27		47P 50V 5%CAP 0805 SMT NPO	P1	4459	10K B LIN 9MM DET HI TORQ P32	R94		W125 10K 5% 0805 SMT RES						
C28		68N 50V 5%CAP 0805 SMT X7R	P2	4459	10K B LIN 9MM DET HI TORQ P32	R95		W125 33K 5% 0805 SMT RES						
C29		22U 25V 20%CAP 1210 SMT X7R	P3	4459	10K B LIN 9MM DET HI TORQ P32	R96		W063 10R 5% 0603 SMT RES						
C30		470P 50V 5%CAP 0603 SMT NPO	Q1		MMBT5401 PNP SOT-23 SMT	R97		W125 10K 5% 0805 SMT RES						
C31		100N 25V 10%CAP 0805 SMT X7R	Q5		12.288MHZ CRYSTAL 4-PIN SMT	R98		W125 10K 5% 0805 SMT RES						
C32		100N 25V 10%CAP 0805 SMT X7R	Q8		MMBT3906LT1 PNP SOT-23 SMT T&R	R99		W125 10K 5% 0805 SMT RES						
C33		100N 25V 10%CAP 0805 SMT X7R	R1		W125 10K 5% 0805 SMT RES	R100		W125 10K 5% 0805 SMT RES						
C34		100N 25V 10%CAP 0805 SMT X7R	R2		W125 470R 5% 0805 SMT RES	R101	6543	48R 265V RESETTABLE THERMISTOR PTC						
C35		10N 50V 5%CAP 1206 SMT NPO	R3		W125 470R 5% 0805 SMT RES	R102		W125 2K2 5% 0805 SMT RES						
C36		100U 10V 20%CAP 3528 SMT TNT	R4		W125 1M 5% 0805 SMT RES	R103		W125 47R 5% 0805 SMT RES						
C37		22U 25V 20%CAP 1210 SMT X7R	R5		W125 1M 5% 0805 SMT RES	R105		W125 1K02 0.1% 0805 SMT RES						
C41		470P 50V 5%CAP 0603 SMT NPO	R6		W125 10K 5% 0805 SMT RES	R106		W125 330R 0.5% 0805 SMT RES						
C42		470P 50V 5%CAP 0603 SMT NPO	R7		W125 10K 5% 0805 SMT RES	S1	3522	DPDT MINI PC VERT SNP ALT						
C43		680P 50V 5%CAP SMT C0G	R8		W125 1K800 0.1% 0805 SMT RES	S8	3522	DPDT MINI PC VERT SNP ALT						
C44		680P 50V 5%CAP SMT C0G	R9		W125 1K800 0.1% 0805 SMT RES	S9	3522	DPDT MINI PC VERT SNP ALT						
C45		22U 25V 20%CAP 1210 SMT X7R	R10		W125 1K02 0.1% 0805 SMT RES	U1		33078 DUAL OPAMP SMT SO-8						
C46		47P 50V 5%CAP 0805 SMT NPO	R11		W125 1K02 0.1% 0805 SMT RES	U2		33078 DUAL OPAMP SMT SO-8						
C47		47P 50V 5%CAP 0805 SMT NPO	R12		W100 4K99 1% 0805 SMT RES	U3		PCM1796 DAC STEREO DIFF SSOP28 SMT						
C48		82N 100V 10%CAP 0805 SMT X7R	R13		W063 10R 5% 0603 SMT RES	U5		LM1117 REGULATOR 5V0 SMT SOT223						
C49		100N 25V 10%CAP 0805 SMT X7R	R14		W125 100K 5% 0805 SMT RES	U6		LM2671 3V3 REG 0A5 SMT SO8						
C50		82N 100V 10%CAP 0805 SMT X7R	R15		W100 4K99 1% 0805 SMT RES	U7		MC9S08GT60 MICROCNTRLLER SMT QFP44						
C51		100N 25V 10%CAP 0805 SMT X7R	R16		W063 10R 5% 0603 SMT RES	U8		ADAU1701 28/56 DSP 2AD4DA SMT IC						
C52		47P 50V 5%CAP 0805 SMT NPO	R17		W063 10R 5% 0603 SMT RES	U9		MC33079D QUAD OPAMP SMT SO14						
C53		82N 100V 10%CAP 0805 SMT X7R	R18		W063 10R 5% 0603 SMT RES	U10		33078 DUAL OPAMP SMT SO-8						
C54		100N 25V 10%CAP 0805 SMT X7R	R19		W063 10R 5% 0603 SMT RES	U11		33078 DUAL OPAMP SMT SO-8						
C55		100N 25V 10%CAP 0805 SMT X7R	R20		W125 10K 5% 0805 SMT RES	U12		TL072 DUAL OPAMP SMT SO-8						
C56		1N5 50V 5%CAP 0805 SMT NPO	R23		W125 1K800 0.1% 0805 SMT RES	U13		33078 DUAL OPAMP SMT SO-8						
C57		15N 50V 5%CAP 0805 SMT C0G	R24		W125 10K 5% 0805 SMT RES	W2	4148	06 CIR DUAL ROW HDR VT 0.1						
C58		15N 50V 5%CAP 0805 SMT C0G	R25		W125 1K800 0.1% 0805 SMT RES	W3	4019	10 CIR SOCKT DIL VT 0.1						
C59		100N 16V 10%CAP 0603 SMT X7R	R26		W125 1K800 0.1% 0805 SMT RES									
C65		47P 50V 5%CAP 0805 SMT NPO	R27		W125 150K 5% 0805 SMT RES									
C66		100N 25V 10%CAP 0805 SMT X7R	R28		W100 2K0 1% 0805 SMT RES									
C67		100N 25V 10%CAP 0805 SMT X7R	R29		W125 1K800 0.1% 0805 SMT RES									
C68		100N 25V 10%CAP 0805 SMT X7R	R30		W100 2K0 1% 0805 SMT RES									
C69		1U 25V 20%CAP 1206 SMT X7R	R31		W063 10R 5% 0603 SMT RES									
C70		100N 25V 10%CAP 0805 SMT X7R	R32		W125 10K 5% 0805 SMT RES									
C71		270P 50V 5%CAP 0805 SMT NPO	R33		W125 1K02 0.1% 0805 SMT RES									
C72		15U 35V 10%CAP 6032 SMT TNT	R34		W125 10K 5% 0805 SMT RES									
C73		10U 10V 10%CAP 1206 SMT X5R	R35		W063 10R 5% 0603 SMT RES									
C74		100N 25V 10%CAP 0805 SMT X7R	R36		W125 10K 5% 0805 SMT RES									
C75		100N 16V 10%CAP 0603 SMT X7R	R37		W125 10K 5% 0805 SMT RES									
C76		100N 16V 10%CAP 0603 SMT X7R	R38		W100 2K74 1% 0805 SMT RES									
C77		10U 10V 10%CAP 1206 SMT X5R	R39		W100 2K74 1% 0805 SMT RES									
C78		100N 25V 10%CAP 0805 SMT X7R	R40		W125 1K02 0.1% 0805 SMT RES									
C79		100N 25V 10%CAP 0805 SMT X7R	R41		W125 33K 5% 0805 SMT RES									
C80		10U 10V 10%CAP 1206 SMT X5R	R42		W125 330R 0.5% 0805 SMT RES									
C81		100N 25V 10%CAP 0805 SMT X7R	R44		W100 2K74 1% 0805 SMT RES									
C82		3N3 25V 5%CAP 0805 SMT NPO	R46		W100 475R 1% 0805 SMT RES									
C83		100N 25V 10%CAP 0805 SMT X7R	R47		W100 200R 1% 0805 SMT RES									
C85		10U 10V 10%CAP 1206 SMT X5R	R52		W125 33K 5% 0805 SMT RES									
C86		10U 10V 10%CAP 1206 SMT X5R	R53		W125 33K 5% 0805 SMT RES									
C88		100N 16V 10%CAP 0603 SMT X7R	R54		W125 4K7 5% 0805 SMT RES									
C89		100N 16V 10%CAP 0603 SMT X7R	R55		W125 10K 5% 0805 SMT RES									
D1		CDSF4148 75V 0A15 1005 SMT	R56		W125 1K02 0.1% 0805 SMT RES									
D2		CDSF4148 75V 0A15 1005 SMT	R57		W125 10K 5% 0805 SMT RES									

M1525 01 Parts Reference List 10/2/2020

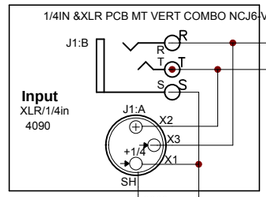
REF	YS #	Description
C100		100N 100V 10%CAP 1206 SMT X7R
C101		100N 100V 10%CAP 1206 SMT X7R
C102		100N 100V 10%CAP 1206 SMT X7R
C103		22U 20V 10%CAP 3528 SMT TANT
C104		4U7 50V 10%CAP 1210 SMT CER
C105		10N 50V 10%CAP 0805 SMT X7R
C106		3N3 25V 5%CAP 0805 SMT NPO
C107		10N 50V 10%CAP 0805 SMT X7R
C109		4U7 50V 10%CAP 1210 SMT CER
C110		10N 50V 10%CAP 0805 SMT X7R
C111		4U7 50V 10%CAP 1210 SMT CER
C112		4U7 50V 10%CAP 1210 SMT CER
C113		4U7 50V 10%CAP 1210 SMT CER
C114		4U7 50V 10%CAP 1210 SMT CER
C115		4U7 50V 10%CAP 1210 SMT CER
C116		2N2 50V 10%CAP 0805 SMT X7R
C117		2N2 50V 10%CAP 0805 SMT X7R
C118		10U 16V 10%CAP 0805 SMT X6
C201		220N 50V 10%CAP 1206 SMT X7R
C202		22U 20V 10%CAP 3528 SMT TANT
C204		1U0 50V 10%CAP 1206 SMT CER
C205		82N 100V 10%CAP 0805 SMT X7R
C206		82N 100V 10%CAP 0805 SMT X7R
C207	5635	1000U 35V 20%CAP BLK RADIAL ELECT
C208	5635	1000U 35V 20%CAP BLK RADIAL ELECT
C209	6545	1N 250V 20%CAP BLK 'Y' 10MM AC
C210	5972	680N 400V 5%CAP BLK RAD POLY FLM
C211		220N 50V 10%CAP 1206 SMT X7R
C212		82N 100V 10%CAP 0805 SMT X7R
C213	6545	1N 250V 20%CAP BLK 'Y' 10MM AC
C214	6545	1N 250V 20%CAP BLK 'Y' 10MM AC
C215	5663	1200U 200V 20%CAP BLK 25X40MM
C216	5663	1200U 200V 20%CAP BLK 25X40MM
C220		100N 25V 10%CAP 0805 SMT X7R
C221		4U7 50V 10%CAP 1210 SMT CER
C230	6545	1N 250V 20%CAP BLK 'Y' 10MM AC
C231	5262	1U 275V 20%CAP BLK 'X2'26.0MM AC
C232	5827	150N 250V 20%CAP BLK 'X2' 15MM AC
C233	5827	150N 250V 20%CAP BLK 'X2' 15MM AC
C236		1U0 50V 10%CAP 1206 SMT CER
C237		47N 100V 10%CAP 1206 SMT X7R
C239		2N7 100V 10%CAP 0805 SMT X7R
C243		100N 25V 10%CAP 0805 SMT X7R
C244		100N 25V 10%CAP 0805 SMT X7R
D1		MMBZ5231B 5V1 0W35 5% SMT ZEN
D2		ES3D 200V 3A0 D214 SMT SMC
D3		ES3D 200V 3A0 D214 SMT SMC
D4		MURA240T3 400V 2A 403D SMT
D5		BAV21WS 200V 0A2 SOD323 SMT
D6		BAV21WS 200V 0A2 SOD323 SMT
D7		BAV21WS 200V 0A2 SOD323 SMT
D8		BAV21WS 200V 0A2 SOD323 SMT
D9		MMBZ5231B 5V1 0W35 5% SMT ZEN
D10		MMBZ5231B 5V1 0W35 5% SMT ZEN
D20		ES3D 200V 3A0 D214 SMT SMC
D21		ES3D 200V 3A0 D214 SMT SMC
D22		MURA240T3 400V 2A 403D SMT
D23		MMBZ5231B 5V1 0W35 5% SMT ZEN
D24		BAV21WS 200V 0A2 SOD323 SMT
D25		BAV21WS 200V 0A2 SOD323 SMT
D26		MMBZ5231B 5V1 0W35 5% SMT ZEN
D27		BAV21WS 200V 0A2 SOD323 SMT
D28		BAV21WS 200V 0A2 SOD323 SMT
D29		SMAZ10-13-F 10V0 1W0 10% SMT ZEN
D30		SMAZ10-13-F 10V0 1W0 10% SMT ZEN
D31		MMBZ5231B 5V1 0W35 5% SMT ZEN
D32		BAV21WS 200V 0A2 SOD323 SMT
D34		BAV21WS 200V 0A2 SOD323 SMT
D35		DFLZ5V1-7 5V1 1W0 5% SMT ZEN
D36		ES1H 500V 1A0 D214 SMT SMC
D37		SMAZ10-13-F 10V0 1W0 10% SMT ZEN
D38		1SMB5948BT3 91V0 3W DIO SMT ZEN
D39		3SMAJ5932B 20V 3W0 DO214AC SMT ZEN
D40		BAV21WS 200V 0A2 SOD323 SMT
D41		BAV21WS 200V 0A2 SOD323 SMT
D43		MMBZ5231B 5V1 0W35 5% SMT ZEN
D44		DFLZ5V1-7 5V1 1W0 5% SMT ZEN
D45		MURA240T3 400V 2A 403D SMT
D46		DFLZ5V1-7 5V1 1W0 5% SMT ZEN
D47		MBRS140 40V 1A 1W5 SCH SMT
D48		MBRS140 40V 1A 1W5 SCH SMT
D49		SMBJ5371B 60V 5W0 DO214AA SMT ZEN
D50		SMAZ10-13-F 10V0 1W0 10% SMT ZEN
D51		ES1H 500V 1A0 D214 SMT SMC
D52		BAV21WS 200V 0A2 SOD323 SMT
D53		BAV21WS 200V 0A2 SOD323 SMT
D54		BAV21WS 200V 0A2 SOD323 SMT
D55		BAV21WS 200V 0A2 SOD323 SMT
D56		BAV21WS 200V 0A2 SOD323 SMT
D201	6772	BRIDGE 25A 400V WIRE LEAD SIP
D202		MURA240T3 400V 2A 403D SMT
D203	6845	MUR1640CTG 400V 8A DIODE DUAL CC
D204		MURA240T3 400V 2A 403D SMT
D205		MURA240T3 400V 2A 403D SMT
D206		MURA240T3 400V 2A 403D SMT
D207		MURA240T3 400V 2A 403D SMT
D209		MURA240T3 400V 2A 403D SMT
D210		MURA240T3 400V 2A 403D SMT
D211		MURA240T3 400V 2A 403D SMT
D214		MBRS140 40V 1A 1W5 SCH SMT
D215		MBRS140 40V 1A 1W5 SCH SMT
D216		MBRS140 40V 1A 1W5 SCH SMT
D217		MBRS140 40V 1A 1W5 SCH SMT
D220	6843	MUR1620CTRG 200V 16A DIODE DUAL CA
D226		BAV21WS 200V 0A2 SOD323 SMT
L1		1000UH COIL 6X6MM SMT
L2		120.0UH COIL A34 1R6 SMT
L3	6620	64UH CHOKE 68T20AWG/T157-2
L4		120.0UH COIL A34 1R6 SMT
L5	6620	64UH CHOKE 68T20AWG/T157-2
L7		220UH COIL 10X10MM SMT
L8		120.0UH COIL A34 1R6 SMT
L9		120.0UH COIL A34 1R6 SMT
L10		120.0UH COIL A34 1R6 SMT
L11		120.0UH COIL A34 1R6 SMT
L203	4169	14.0MH COIL 4AMP INPUT COM MODE
L205	4169	14.0MH COIL 4AMP INPUT COM MODE
L219		1000UH 10% COIL 12MM SMT
PCB	M1525	PS10P ASSY PCB
Q1	6972	IRFB4227PBF TO220 NCH MFET TM
Q2	6763	IRFI4020H-117P MFET HLFBRDG TO220-5
Q3	6972	IRFB4227PBF TO220 NCH MFET TM
Q5		ZXTN19020CFFNPN SOT23F SMT
Q8		MMBT4401 NPN SOT-23 SMT
Q9		MMBT4401 NPN SOT-23 SMT
Q10		FOD814A OPTO-COUPLER 4P SMT IC
Q13		MMBT4401 NPN SOT-23 SMT
Q14		LM2991SX NEG ADJ REG SMT TO263-5
Q201		ZXTN19020CFFNPN SOT23F SMT
Q202		ZXTP19020CFFPNP SOT23F SMT
Q203		ZXTP19020CFFPNP SOT23F SMT
Q204		MMBT4401 NPN SOT-23 SMT
Q205		ZXTN19020CFFNPN SOT23F SMT
Q206	6975	SPW35N60CFD MOSFET N-CN 600V TO-247
Q207	6975	SPW35N60CFD MOSFET N-CN 600V TO-247
R1		W100 4K99 1% 0805 SMT RES
R2		W100 1K0 1% 0805 SMT RES
R3		W125 1K50 1% 0805 SMT RES
R4		W100 357K 1% 0805 SMT RES
R5		W100 1K0 1% 0805 SMT RES
R6		W750 0R 1% 2010 SMT JMP
R7		1W00 33K 5% 2512 SMT RES
R8		1W00 47K 5% 2512 SMT RES
R9		1W00 10K 5% 2512 SMT RES
R10		1W00 4R7 5% 2512 SMT RES
R11		W100 274K 1% 0805 SMT RES
R12		W250 1R 5% 1206 SMT RES
R13		W250 10R 5% 1206 SMT RES
R14		1W00 4R7 5% 2512 SMT RES
R15		1W00 4R7 5% 2512 SMT RES
R16		W125 1K800 0.1% 0805 SMT RES
R17		1W00 1K 5% 2512 SMT RES
R18		W125 348R0 1% 0805 SMT RES
R19		W100 13K 1% 0805 SMT RES
R20		W125 91K 5% 0805 SMT RES
R21		1W00 15K 5% 2512 SMT RES
R22		W100 7K50 1% 0805 SMT RES
R23		W100 1K0 1% 0805 SMT RES
R24		W100 1K0 1% 0805 SMT RES
R25		1W00 1K 5% 2512 SMT RES
R27		W250 100R 5% 1206 SMT RES
R28		W125 100K 5% 0805 SMT RES
R29		W250 10R 5% 1206 SMT RES
R30		1W00 4R7 5% 2512 SMT RES
R31		1W00 100K 5% 2512 SMT RES
R32		W125 3K32 1% 0805 SMT RES
R33		W100 1K0 1% 0805 SMT RES
R34		W125 3K32 1% 0805 SMT RES
R35		W125 3K32 1% 0805 SMT RES
R36		W125 3K32 1% 0805 SMT RES
R37		W125 10K00 0.1% 0805 SMT RES
R54		W250 1M0 1% 1206 SMT RES
R59		W125 10K00 0.1% 0805 SMT RES
R60		1W00 33K 5% 2512 SMT RES
R61		1W00 4R7 5% 2512 SMT RES
R62		1W00 22R 5% 2512 SMT RES
R63		1W00 22R 5% 2512 SMT RES
R64		1W00 1K 5% 2512 SMT RES
R65		W100 301R 1% 0805 SMT RES
R66		W100 13K 1% 0805 SMT RES
R67		W125 47K5 1% 0805 SMT RES
R68		1W00 15K 5% 2512 SMT RES
R69		W125 10K00 0.1% 0805 SMT RES
R70		W125 249R0 1% 0805 SMT RES
R71		W100 1K0 1% 0805 SMT RES
R72		1W00 1K 5% 2512 SMT RES
R73		1W00 47K 5% 2512 SMT RES
R75		W250 1M0 1% 1206 SMT RES
R76		W100 4K75 1% 0805 SMT RES
R77		W250 10R 5% 1206 SMT RES
R78		1W00 4R7 5% 2512 SMT RES
R79		W125 100K 5% 0805 SMT RES
R80		W100 1K0 1% 0805 SMT RES
R81		W125 10K00 0.1% 0805 SMT RES
R82		W125 4K02 0.1% 0805 SMT RES
R83		W125 1K800 0.1% 0805 SMT RES
R84		W125 4K02 0.1% 0805 SMT RES
R85		W125 1K21 1% 0805 SMT RES
R86		W125 1K21 1% 0805 SMT RES
R87		W125 100K 5% 0805 SMT RES
R88		W125 1K50 1% 0805 SMT RES
R89		W750 0R 1% 2010 SMT JMP
R92		W125 10R0 1% 0805 SMT RES
R93		W125 1K62 1% 0805 SMT RES
R94		W100 13K 1% 0805 SMT RES
R95		W125 1K21 1% 0805 SMT RES
R96		W125 1K21 1% 0805 SMT RES
R97		W100 2K32 1% 0805 SMT RES
R98		W100 4K99 1% 0805 SMT RES
R99		W100 4K99 1% 0805 SMT RES
R100		W100 2K32 1% 0805 SMT RES
R101		W125 1K62 1% 0805 SMT RES
R102		W125 1K62 1% 0805 SMT RES
R103		W125 348R0 1% 0805 SMT RES
R104		W125 348R0 1% 0805 SMT RES
R105		W100 4K75 1% 0805 SMT RES
R106		W125 3K32 1% 0805 SMT RES
R109		W125 3K32 1% 0805 SMT RES
R110		W125 1K800 0.1% 0805 SMT RES
R113		W125 3K32 1% 0805 SMT RES
R114		W125 4K12 1% 0805 SMT RES
R115		W125 1K50 1% 0805 SMT RES
R117		W750 0R 1% 2010 SMT JMP
R118		W250 10R 5% 1206 SMT RES
R119		W250 10R 5% 1206 SMT RES
R120		W250 10R 5% 1206 SMT RES
R121		W100 4K75 1% 0805 SMT RES
R122		W125 10K00 0.1% 0805 SMT RES
R123		1W00 47K 5% 2512 SMT RES
R124		1W00 47K 5% 2512 SMT RES
R125		1W00 47K 5% 2512 SMT RES
R126		W100 2K32 1% 0805 SMT RES
R127		W125 249R0 1% 0805 SMT RES
R128		1W00 47K 5% 2512 SMT RES
R129		W100 2K32 1% 0805 SMT RES
R130		W100 1K0 1% 0805 SMT RES
R131		W125 8K25 1% 0805 SMT RES
R132		W100 4K99 1% 0805 SMT RES
R133		W100 4K99 1% 0805 SMT RES
R134		W100 4K99 1% 0805 SMT RES
R135		W100 4K99 1% 0805 SMT RES
R136		W100 357K 1% 0805 SMT RES
R137		W125 10R0 1% 0805 SMT RES
R138		W100 1K0 1% 0805 SMT RES
R139		W125 681R 1% 0805 SMT RES
R140		W125 10R0 1% 0805 SMT RES
R141		W125 10R0 1% 0805 SMT RES
R142		W750 0R1 5% 2010 SMT TR
R143		W750 0R1 5% 2010 SMT TR
R144		W125 10R0 1% 0805 SMT RES
R145		W100 274K 1% 0805 SMT RES
R146		W125 68K 5% 0805 SMT RES
R147		W100 1K0 1% 0805 SMT RES
R148		W125 5K36 1% 0805 SMT RES
R149		W100 1K0 1% 0805 SMT RES
R151		W125 47K5 1% 0805 SMT RES
R152		W125 100K 5% 0805 SMT RES
R201		W250 10R 5% 1206 SMT RES
R202		W250 10R 5% 1206 SMT RES
R203		W250 10R 5% 1206 SMT RES
R204		W250 10R 5% 1206 SMT RES
R205		W250 10R 5% 1206 SMT RES
R206		W250 10R 5% 1206 SMT RES
R207		1W00 47R 5% 2512 SMT RES
R208		W750 7R5 5% 2010 SMT RES
R209		1W00 47R 5% 2512 SMT RES
R210		1W00 47R 5% 2512 SMT RES
R211		W250 10R 5% 1206 SMT RES
R212		W250 10R 5% 1206 SMT RES
R213		W250 10R 5% 1206 SMT RES
R214		W250 10R 5% 1206 SMT RES
R216	6633	2R5 25% 5A INRSH CURR LIM 12MM
R217	6633	2R5 25% 5A INRSH CURR LIM 12MM
R240		W100 7K50 1% 0805 SMT RES
R241		W100 1K0 1% 0805 SMT RES
R242		W125 348R0 1% 0805 SMT RES
R243		W250 1M0 1% 1206 SMT RES
R255		2W00 0R1 5% 2512 SMT RES
R256		2W00 0R1 5% 2512 SMT RES
R257		W125 249R0 1% 0805 SMT RES
R258		W100 1K0 1% 0805 SMT RES
R259		W100 475R 1% 0805 SMT RES
R260		2W00 0R1 5% 2512 SMT RES
R263		W250 10R 5% 1206 SMT RES
R271		W100 4K99 1% 0805 SMT RES
R272	6619	10K 5% THERMISTOR VISH NTC
R277	7852	W250 10R 5% 1206 SMT RES
T1	1226	XFMR O/P 400W PQ40/40 PS10,12,15P
T201		78602/9C PULSE XFMR SMT
TP1		TEST POINT MINIATURE SMT
TP2		TEST POINT MINIATURE SMT
TP3		TEST POINT MINIATURE SMT
TP4		TEST POINT MINIATURE SMT
TP5		TEST POINT MINIATURE SMT
TP6		TEST POINT MINIATURE SMT
TP7		TEST POINT MINIATURE SMT
TP8		TEST POINT MINIATURE SMT
TP9		TEST POINT MINIATURE SMT
TP10		TEST POINT MINIATURE SMT
TP11		TEST POINT MINIATURE SMT
TP12		TEST POINT MINIATURE SMT
TP13		TEST POINT MINIATURE SMT
TP14		TEST POINT MINIATURE SMT
TP201		TEST POINT MINIATURE SMT
TP202		TEST POINT MINIATURE SMT
TP205		TEST POINT MINIATURE SMT
TP206		TEST POINT MINIATURE SMT
U1		ZXGD3002E6 GATE DRVR 9A SMT SOT326
U2		LM5008A 100V REG 0A35 BUCK SW SMT
U3		ZXGD3002E6 GATE DRVR 9A SMT SOT326
U5		IRS20957S DIG AUDIO DRVR SMT SOIC
U6		FOD817C OPTO-COUPLER 4P SMT IC
U10		TL071CDR OPAMP JFET 3MHZ SO-8 SMT
U11		CNY17F-2S OPTO-COUPLER 6P SMT IC
U12		33078 DUAL OPAMP SMT SO-8
U13		33078 DUAL OPAMP SMT SO-8
U14		IRS20957S DIG AUDIO DRVR SMT SOIC
U15		SN74AHC1G86 SINGLE XOR SMT SOT235
U16		TLV3201 SNGLE COMPARATOR SMT SOT235
U17		TL071CDR OPAMP JFET 3MHZ SO-8 SMT
U18		TLV3201 SNGLE COMPARATOR SMT SOT235
U21		LM5008A 100V REG 0A35 BUCK SW SMT
U202		LNK306G OFFLINE SWITCH SMT SMD8B
U205		UCC25600 RES MODE CTRL SMT SO8
W2	4167	2X2PIN 4.2MM RA HEADER VAL-U-LOK
W8	4019	10 CIR SOCKT DIL VT 0.1
W9	3966	GRN 16AWG PREFUSED WIRE
W201	4146	3 PIN POWER PIN HEADER MALE POLZED
W202	4162	2 PIN POWER PIN HEADER MALE POLZED
W203	4162	2 PIN POWER PIN HEADER MALE POLZED
ZD3		BAS316 100V 0A25 DIODE SOD323 SMT
ZD201		SMAZ18-13-F 18V0 1W0 5% SMT ZEN

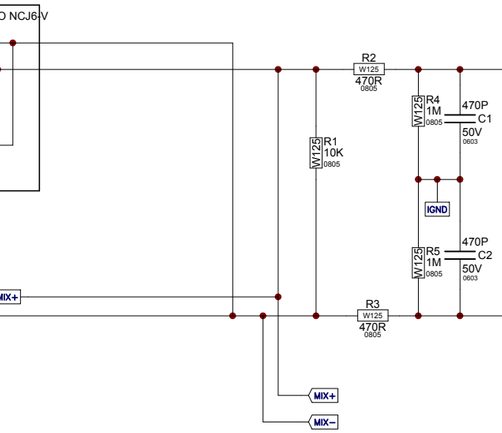
M1529 01 Parts Reference List 10/2/2020

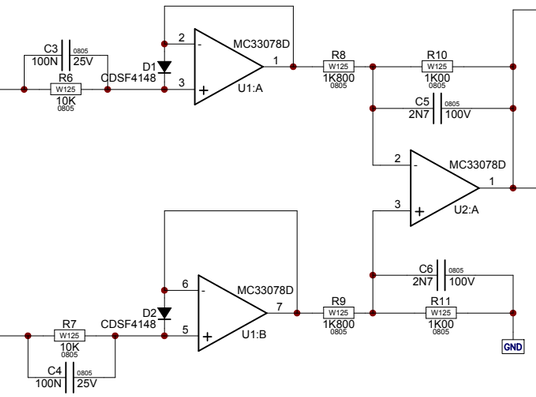
REF	YS #	Description	REF	YS #	Description	REF	YS #
C1	7871	470P 50V 5%CAP 0603 SMT NPO	D1	7750	CDSF4148 75V 0A15 1005 SMT	R47	7708
C2	7871	470P 50V 5%CAP 0603 SMT NPO	D2	7750	CDSF4148 75V 0A15 1005 SMT	R48	7625
C3	5979	100N 50V 5%CAP 0805 SMT X7R	D5	7750	CDSF4148 75V 0A15 1005 SMT	R49	7625
C4	5979	100N 50V 5%CAP 0805 SMT X7R	D6	7893	MBRA340T3 40V 3A SHTKY 403D SMT	R50	7625
C5	7966	__2N7 100V 10%CAP 0805 SMT X7R	D7	7831	MM3Z15VT1G 15V0 0W2 5% SMT ZEN	R51	7625
C6	7966	__2N7 100V 10%CAP 0805 SMT X7R	D8	7750	CDSF4148 75V 0A15 1005 SMT	R52	7863
C7	8139	_22U 25V 20%CAP 1210 SMT X7R	D9	7750	CDSF4148 75V 0A15 1005 SMT	R53	7863
C8	8139	_22U 25V 20%CAP 1210 SMT X7R	D10	7750	CDSF4148 75V 0A15 1005 SMT	R54	7860
C9	7819	_10U 10V 10%CAP 1206 SMT X5R	D11	7750	CDSF4148 75V 0A15 1005 SMT	R55	7621
C10	7819	_10U 10V 10%CAP 1206 SMT X5R	D12	7750	CDSF4148 75V 0A15 1005 SMT	R56	7621
C11	7819	_10U 10V 10%CAP 1206 SMT X5R	D13	7750	CDSF4148 75V 0A15 1005 SMT	R57	7621
C12	7819	_10U 10V 10%CAP 1206 SMT X5R	D14	7914	MMBZ5231B 5V1 0W35 5% SMT ZEN	R58	7624
C13	7819	_10U 10V 10%CAP 1206 SMT X5R	D15	7914	MMBZ5231B 5V1 0W35 5% SMT ZEN	R59	7673
C14	7767	100N 16V 10%CAP 0603 SMT X7R	D16	8080	SMAJ150CA 150V 400W BIDIR SMT	R60	7673
C15	7766	_15P 50V 5%CAP 0603 SMT NPO	D17	7832	MM3Z18VT1G 18V0 0W2 5% SMT ZEN	R61	7673
C16	8139	_22U 25V 20%CAP 1210 SMT X7R	D18	7832	MM3Z18VT1G 18V0 0W2 5% SMT ZEN	R62	7673
C17	5979	100N 50V 5%CAP 0805 SMT X7R	J1	4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	R63	7621
C18	7767	100N 16V 10%CAP 0603 SMT X7R	J2	4100	XLR MALE PCB MT VERT	R64	7898
C19	5979	100N 50V 5%CAP 0805 SMT X7R	J4	4063	1/4IN ISO JCK PCMT VT STER RT SWT	R65	7823
C20	5979	100N 50V 5%CAP 0805 SMT X7R	J5	3466	RCA DUAL PCB MT VERT GOLD 24MM	R66	7856
C21	5979	100N 50V 5%CAP 0805 SMT X7R	J6	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	R67	7621
C22	5979	100N 50V 5%CAP 0805 SMT X7R	K1	3696	RELAY 1C 02AMP DC24 006MA PC-S	R68	7728
C23	7767	100N 16V 10%CAP 0603 SMT X7R	L1	8101	120.0UH COIL A34 1R6 SMT	R69	7728
C24	5979	100N 50V 5%CAP 0805 SMT X7R	L3	7941	__8.2UH COIL 1210 SMT	R70	7633
C25	7966	__2N7 100V 10%CAP 0805 SMT X7R	LD1	6405	RED 3MM LED 2V1 20MA DIFFUSD	R71	7633
C26	7605	__1N5 50V 5%CAP 0805 SMT NPO	LD2	6400	YEL 3MM LED 2V1 20MA DIFFUSD	R72	7728
C27	7813	_47P 50V 5%CAP 0805 SMT NPO	LD3	6408	GRN 3MM LED 2V2 20MA DIFFUSD	R73	7635
C28	7696	_68N 50V 5%CAP 0805 SMT X7R	P1	4459	_10K B LIN 9MM DET HI TORQ P32	R76	7634
C29	8139	_22U 25V 20%CAP 1210 SMT X7R	P2	4459	_10K B LIN 9MM DET HI TORQ P32	R77	7861
C30	7871	470P 50V 5%CAP 0603 SMT NPO	P3	4459	_10K B LIN 9MM DET HI TORQ P32	R78	7861
C31	5979	100N 50V 5%CAP 0805 SMT X7R	PCB1	M1529BLANK	2_OZ 2SD 77.4 SQIN 04PER PSAMP	R79	7861
C32	5979	100N 50V 5%CAP 0805 SMT X7R	Q1	7837	MMBT5401 PNP SOT-23 SMT	R80	7897
C33	7813	_47P 50V 5%CAP 0805 SMT NPO	Q5	7894	12.288MHZ CRYSTAL 4-PIN SMT	R88	7898
C34	5979	100N 50V 5%CAP 0805 SMT X7R	Q8	7805	MMBT3906LT1 PNP SOT-23 SMT T&R	R89	7897
C35	7874	_10N 50V 5%CAP 1206 SMT NPO	R1	7861	W125 10K 5% 0805 SMT RES	R90	7898
C36	8141	100U 10V 20%CAP 3528 SMT TNT	R2	7856	W125 470R 5% 0805 SMT RES	R91	7823
C37	8139	_22U 25V 20%CAP 1210 SMT X7R	R3	7856	W125 470R 5% 0805 SMT RES	R94	7861
C38	5979	100N 50V 5%CAP 0805 SMT X7R	R4	7866	W125 1M 5% 0805 SMT RES	R95	5066
C39	5979	100N 50V 5%CAP 0805 SMT X7R	R5	7866	W125 1M 5% 0805 SMT RES	R96	7765
C41	7871	470P 50V 5%CAP 0603 SMT NPO	R6	7861	W125 10K 5% 0805 SMT RES	R101	6543
C42	7871	470P 50V 5%CAP 0603 SMT NPO	R7	7861	W125 10K 5% 0805 SMT RES	R102	7859
C43	7603	680P 50V 5%CAP 0805 SMT C0G	R8	7899	W125 1K800 0.1% 0805 SMT RES	R103	7854
C44	7603	680P 50V 5%CAP 0805 SMT C0G	R9	7899	W125 1K800 0.1% 0805 SMT RES	R105	7624
C45	8139	_22U 25V 20%CAP 1210 SMT X7R	R10	7898	W125 1K02 0.1% 0805 SMT RES	R106	7897
C46	7813	_47P 50V 5%CAP 0805 SMT NPO	R11	7898	W125 1K02 0.1% 0805 SMT RES	S1	3522
C47	7813	_47P 50V 5%CAP 0805 SMT NPO	R12	7679	W100 4K99 1% 0805 SMT RES	S8	3522
C48	5979	100N 50V 5%CAP 0805 SMT X7R	R13	7765	W063 10R 5% 0603 SMT RES	S9	3522
C49	5979	100N 50V 5%CAP 0805 SMT X7R	R14	7864	W125 100K 5% 0805 SMT RES	U1	7817
C50	5979	100N 50V 5%CAP 0805 SMT X7R	R15	4952	W125 10K2 1% 0805 SMT RES	U2	7817
C51	5979	100N 50V 5%CAP 0805 SMT X7R	R16	7765	W063 10R 5% 0603 SMT RES	U3	8122
C52	7813	_47P 50V 5%CAP 0805 SMT NPO	R17	7765	W063 10R 5% 0603 SMT RES	U5	7918
C53	5979	100N 50V 5%CAP 0805 SMT X7R	R18	7765	W063 10R 5% 0603 SMT RES	U6	7890
C54	5979	100N 50V 5%CAP 0805 SMT X7R	R19	7765	W063 10R 5% 0603 SMT RES	U7	7906
C55	5979	100N 50V 5%CAP 0805 SMT X7R	R20	7861	W125 10K 5% 0805 SMT RES	U8	7905
C56	7605	__1N5 50V 5%CAP 0805 SMT NPO	R21	7621	W100 1K0 1% 0805 SMT RES	U9	7668
C57	7798	_15N 50V 5%CAP 0805 SMT C0G	R22	7928	W125 10K00 0.1% 0805 SMT RES	U10	7817
C58	7798	_15N 50V 5%CAP 0805 SMT C0G	R23	7899	W125 1K800 0.1% 0805 SMT RES	U11	7817
C65	7813	_47P 50V 5%CAP 0805 SMT NPO	R24	7861	W125 10K 5% 0805 SMT RES	U12	7669
C66	5979	100N 50V 5%CAP 0805 SMT X7R	R25	7899	W125 1K800 0.1% 0805 SMT RES	U13	7817
C67	5979	100N 50V 5%CAP 0805 SMT X7R	R26	7899	W125 1K800 0.1% 0805 SMT RES	W2	4208
C68	5979	100N 50V 5%CAP 0805 SMT X7R	R27	5066	W125 22K1 1% 0805 SMT RES	W3	4019
C69	7878	__1U 25V 20%CAP 1206 SMT X7R	R28	7676	W100 2K0 1% 0805 SMT RES		
C70	5979	100N 50V 5%CAP 0805 SMT X7R	R29	7899	W125 1K800 0.1% 0805 SMT RES		
C71	7931	270P 50V 5%CAP 0805 SMT NPO	R30	7676	W100 2K0 1% 0805 SMT RES		
C72	8140	_15U 35V 10%CAP 6032 SMT TNT	R31	7765	W063 10R 5% 0603 SMT RES		
C73	7819	_10U 10V 10%CAP 1206 SMT X5R	R32	7928	W125 10K00 0.1% 0805 SMT RES		
C74	5979	100N 50V 5%CAP 0805 SMT X7R	R33	7898	W125 1K02 0.1% 0805 SMT RES		
C75	7767	100N 16V 10%CAP 0603 SMT X7R	R34	7928	W125 10K00 0.1% 0805 SMT RES		
C76	7767	100N 16V 10%CAP 0603 SMT X7R	R35	7765	W063 10R 5% 0603 SMT RES		
C77	7819	_10U 10V 10%CAP 1206 SMT X5R	R36	7861	W125 10K 5% 0805 SMT RES		
C78	5979	100N 50V 5%CAP 0805 SMT X7R	R37	7861	W125 10K 5% 0805 SMT RES		
C79	5979	100N 50V 5%CAP 0805 SMT X7R	R38	7633	W100 2K74 1% 0805 SMT RES		
C80	7819	_10U 10V 10%CAP 1206 SMT X5R	R39	7633	W100 2K74 1% 0805 SMT RES		
C81	5979	100N 50V 5%CAP 0805 SMT X7R	R40	7898	W125 1K02 0.1% 0805 SMT RES		
C82	7694	__3N3 25V 5%CAP 0805 SMT NPO	R41	7863	W125 33K 5% 0805 SMT RES		
C83	5979	100N 50V 5%CAP 0805 SMT X7R	R42	7897	W125 330R 0.5% 0805 SMT RES		
C85	7819	_10U 10V 10%CAP 1206 SMT X5R	R43	7928	W125 10K00 0.1% 0805 SMT RES		
C86	7819	_10U 10V 10%CAP 1206 SMT X5R	R44	7633	W100 2K74 1% 0805 SMT RES		
C88	7767	100N 16V 10%CAP 0603 SMT X7R	R45	7625	W100 10K0 1% 0805 SMT RES		
C89	7767	100N 16V 10%CAP 0603 SMT X7R	R46	7673	W100 475R 1% 0805 SMT RES		

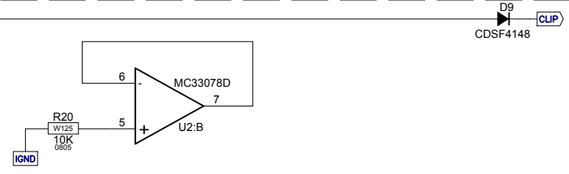
M1529 01 Parts Reference List 10/2/2020

Description
W100 200R 1% 0805 SMT RES
W100 10K0 1% 0805 SMT RES
W100 10K0 1% 0805 SMT RES
W100 10K0 1% 0805 SMT RES
W100 10K0 1% 0805 SMT RES
W125 33K 5% 0805 SMT RES
W125 33K 5% 0805 SMT RES
W125 4K7 5% 0805 SMT RES
W100 1K0 1% 0805 SMT RES
W100 1K0 1% 0805 SMT RES
W100 1K0 1% 0805 SMT RES
W100 100R 1% 0805 SMT RES
W100 475R 1% 0805 SMT RES
W100 475R 1% 0805 SMT RES
W100 475R 1% 0805 SMT RES
W100 475R 1% 0805 SMT RES
W100 1K0 1% 0805 SMT RES
W125 1K02 0.1% 0805 SMT RES
W100 18K2 1% 0805 SMT RES
W125 470R 5% 0805 SMT RES
W100 1K0 1% 0805 SMT RES
W100 39R 5% 0805 SMT RES
W100 39R 5% 0805 SMT RES
W100 2K74 1% 0805 SMT RES
W100 2K74 1% 0805 SMT RES
W100 39R 5% 0805 SMT RES
W100 221R 1% 0805 SMT RES
W100 20K5 1% 0805 SMT RES
W125 10K 5% 0805 SMT RES
W125 10K 5% 0805 SMT RES
W125 10K 5% 0805 SMT RES
W125 330R 0.5% 0805 SMT RES
W125 1K02 0.1% 0805 SMT RES
W125 330R 0.5% 0805 SMT RES
W125 1K02 0.1% 0805 SMT RES
W100 18K2 1% 0805 SMT RES
W125 10K 5% 0805 SMT RES
W125 22K1 1% 0805 SMT RES
W063 10R 5% 0603 SMT RES
48R 265V RESETTABLE THERMISTOR PTC
W125 2K2 5% 0805 SMT RES
W125 47R 5% 0805 SMT RES
W100 100R 1% 0805 SMT RES
W125 330R 0.5% 0805 SMT RES
DPDT MINI PC VERT SNP ALT
DPDT MINI PC VERT SNP ALT
DPDT MINI PC VERT SNP ALT
33078 DUAL OPAMP SMT SO-8
33078 DUAL OPAMP SMT SO-8
PCM1796 DAC STEREO DIFF SSOP28 SMT
LM1117 REGULATOR 5V0 SMT SOT223
LM2671 3V3 REG 0A5 SMT SO8
MC9S08GT60 MICROCNTRLLER SMT QFP44
ADAU1701 28/56 DSP 2AD4DA SMT IC
MC33079D QUAD OPAMP SMT SO14
33078 DUAL OPAMP SMT SO-8
33078 DUAL OPAMP SMT SO-8
TL072 DUAL OPAMP SMT SO-8
33078 DUAL OPAMP SMT SO-8
10 CIR SOCKT DIL RA 0.1
10 CIR SOCKT DIL VT 0.1





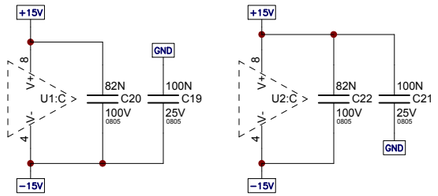


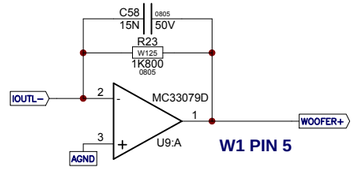


Vfs = 0.7Vrms = 1.98Vpp

To ADC on ADAU1701
Vfs rms = 0.1mA * (R + 2k)

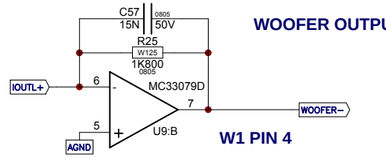
Vfs = 10.2Vrms = 28.8Vpp



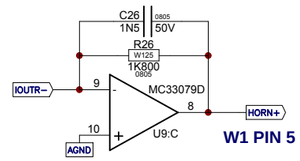


W1 PIN 5

WOOFER OUTPUT

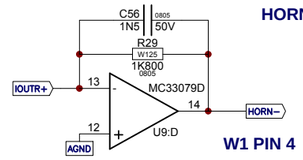


W1 PIN 4



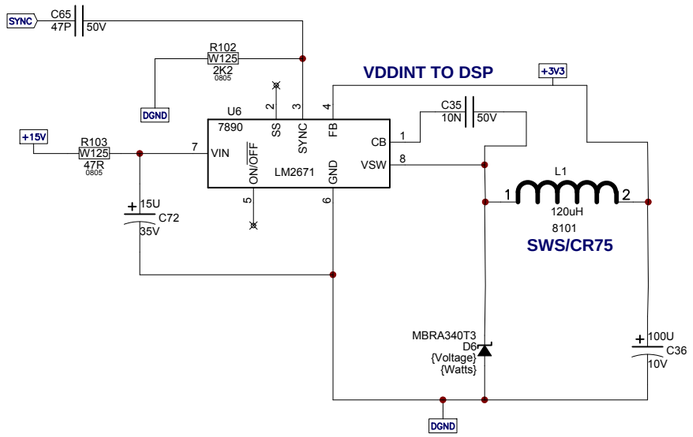
W1 PIN 5

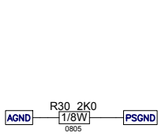
HORN OUTPUT

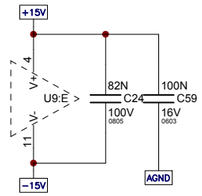


W1 PIN 4

LOW VOLTAGE SUPPLY







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Product **PS Preamp**		
ANALOG	PCB# M1523	Sheet 1 of 3
Date: Mon Aug 26, 2013	Rev:1.00	YsType:{Company N
Filename: M1523V01SCH.sch2006		

LINE GAIN

Line In
J4
TIP
RING
R32 W125 10K 0805
R34 W125 10K 0805
47P C47 50V 0805
47P C46 50V 0805
IGND
R73 W125 1K00 0805
R74 W125 1K00 0805
R55 W125 10K 0805
R57 W125 10K 0805
C27 47P 0805 50V
MC33078D U13:B
D11 CDSF4148 CLIP
C29 1210 25V 22U
R41 W125 33K 0805
GND

Line In
J5 3466
PCB MT
GOLD 24MM
R38 1/8W 2K74 0805
R39 1/8W 2K74 0805
IGND
TL072 U12:A
R97 W125 10K 0805
R98 W125 10K 0805
R68 W125 10K 0805
470P C30 50V 0603
TL072 U12:B
R99 W125 10K 0805
R100 W125 10K 0805
IGND
GND

Line Level
P1:A
4459 B 10K
GND
R54 W125 4K7 0805
MC33078D U13:A
D13 CDSF4148 CLIP
R58 1/8W 100R 0805
C37 22U 1210 25V
R72 W125 1K00 0805

R77 W125 10K 0805
R78 W125 10K 0805
R79 W125 10K 0805
MC33078D U11:B
R80 W125 330R0 0805
R88 W125 1K00 0805
R28 1/8W 2K0 0805
GND

Mixer Enable
S1:B 3522 UP DOWN
S1:A 3522 UP DOWN
NC NC
COM COM
NO NO
Alternate
MIX+
MIX-
R90 W125 1K00 0805
R89 W125 330R0 0805
GND

Mic In
4010 J6
R62 W125 470R 0805
R63 W125 470R 0805
R67 W125 470R 0805
R69 W125 470R 0805
470P C41 50V 0603
470P C42 50V 0603
IGND
C43 680P 0805 50V
C44 680P 0805 50V
R70 1/8W 2K74 0805
R71 1/8W 2K74 0805
MC33078D U10:A
GND

D10 CDSF4148 CLIP
0805 25V 100N C33
R56 W125 1K00 0805
R53 W125 33K 0805
GND

Mic Level
P2:A
4459 B 10K
GND
R75 W125 1K00 0805
C45 22U 1210 25V
R76 1/8W 20K5 0805
C52 47P 0805 50V
CDSF4148 CLIP D12

MC33078D U10:B
C34 100N 0805 25V
C28 68N 805 50V
R27 150K 0805 W125
GND

R15 1/8W 4K99 0805
MIC H.P.
MC33078D U11:A
GND

3696
K1:A
GND

MIC GAIN

+15V
U13:C
U12:C
82N C48 100V 0805
100N C49 25V 0805
GND
−15V

+15V
U10:C
82N C50 100V 0805
100N C51 25V 0805
GND
−15V

+15V
U11:C
82N C53 100V 0805
100N C54 25V 0805
GND
−15V

+15V
MMBT5401
Q1 7837 SOT-23
R91 0.1W 18K2 0805
0W2 D7 18V0
18V0
D8 CDSF4148
3696
K1:B
R92 W125 1K00 0805
−15V

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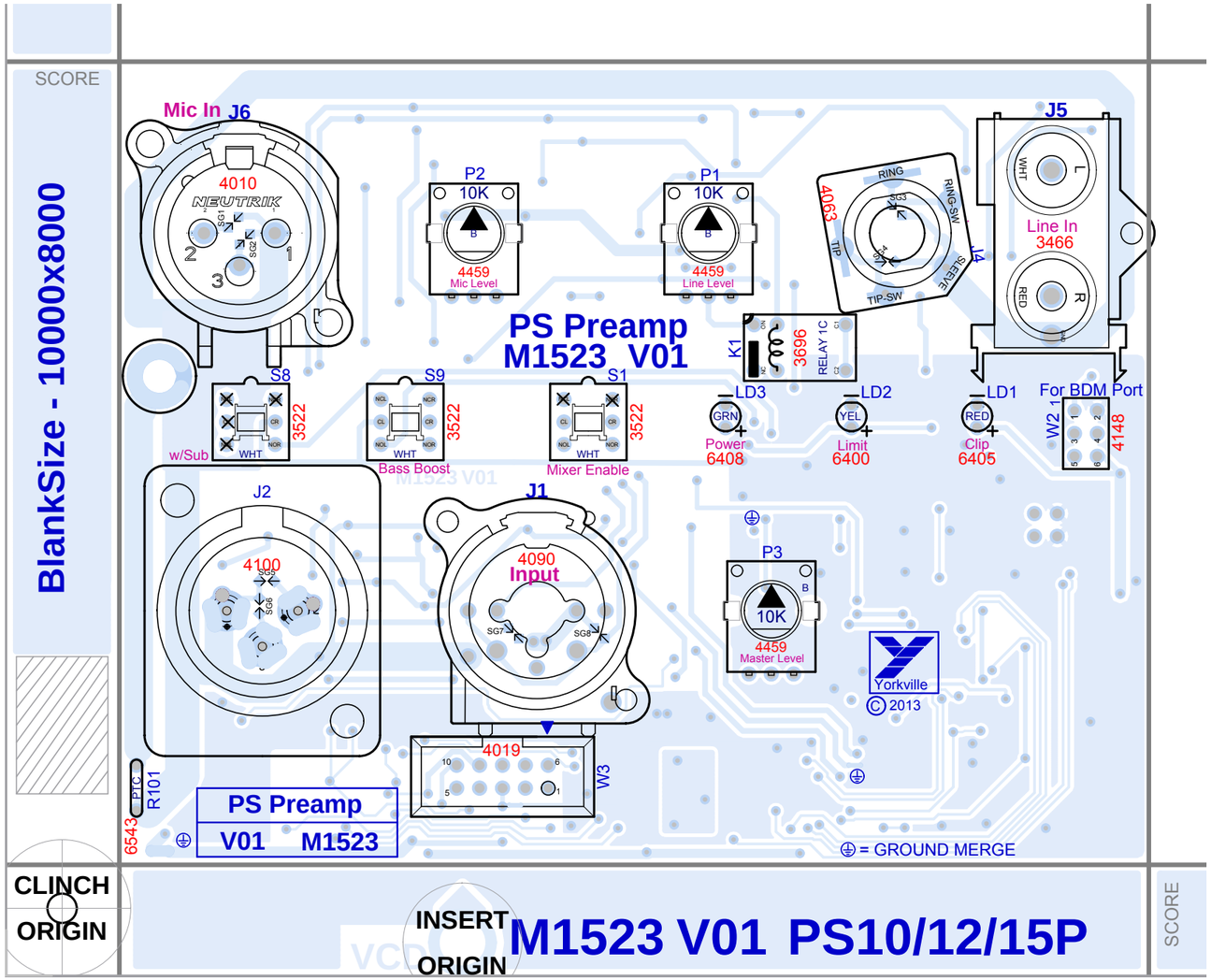
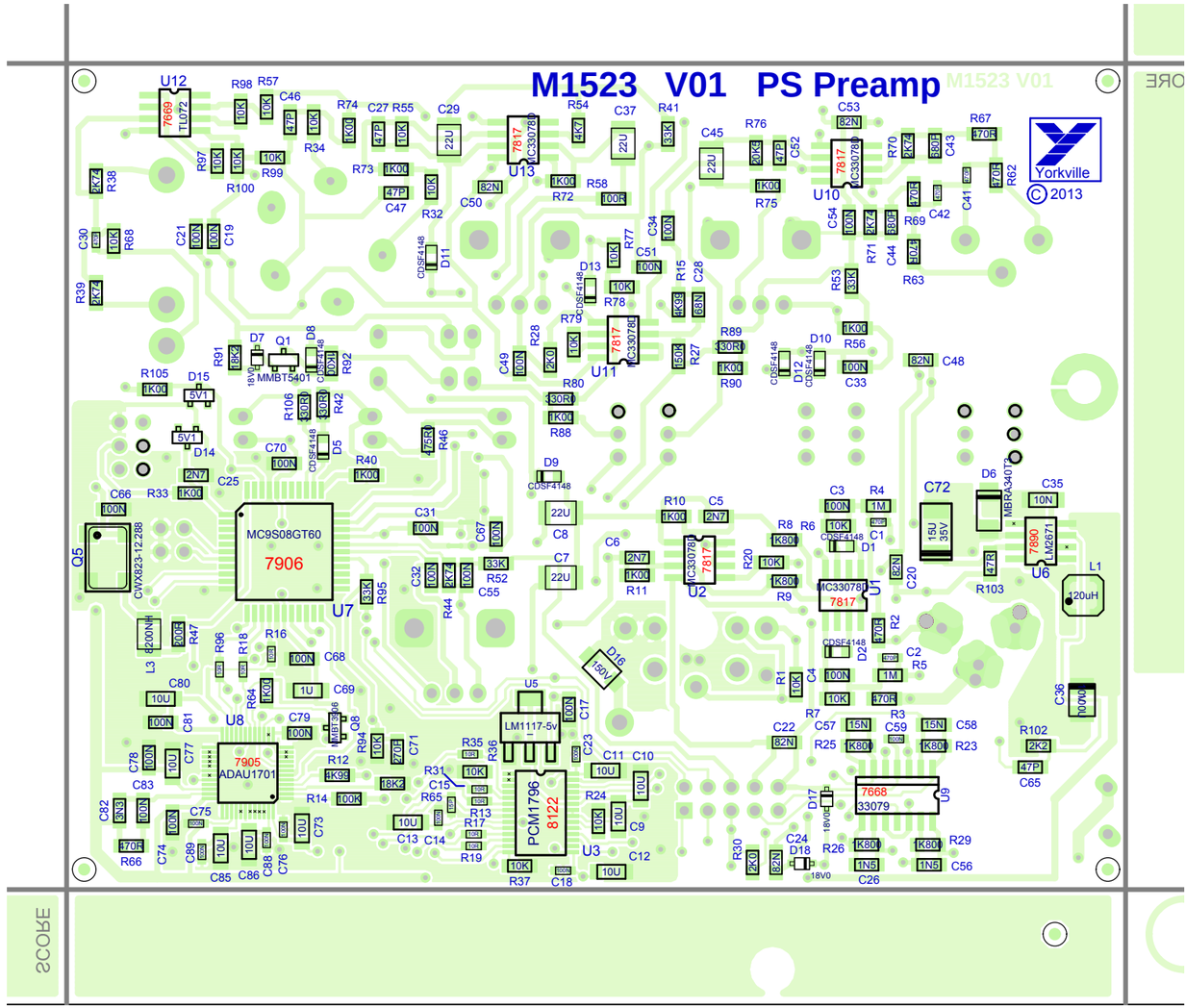
Product **PS Preamp**

MIXER	PCB# M1523	Sheet 2 of 3
Date: Mon Aug 26, 2013	Rev:1.00	YsType:{Company N
Filename: M1523V01SCH.sch2006		

Q5
7894
OSCILLATOR
CWX823-12.288
L3
8200NH
7941
MCLK
+1V8 SUPPLY
Q8
MMBT3906LT1
SOT23
7805
U8
ADAU1701
28/56-BIT, 50 MHz
AUDIO PROCESSOR CORE
40 ms DELAY MEMORY
7905
PLL
PVDD
1.8V Reg
8-CH Digital Output
GPIO
8-Bit Aux ADC
8-CH Digital Input
Control Interface and Selfboot
Reset/ Mode Select
Input/Output Matrix
Stereo ADC
AIN_LO_SENS
AIN_HI_SENS
U5
LM1117-5v
7918
U3
PCM1796
8122
DAC_LRCK
DAC_BCK
DAC_DATA
Clip
LD1
RED
6405
Limit
LD2
YEL
6400
Power
LD3
GRN
6408
D5
CDSF4148
Bass Boost
S9:A
3522
Alternate
w/Sub
S8:B
3522
S8:A
3522
INPUT CONTROLS
8-BITMicrocontroller
7906
MC9S08GT32
MICRO
CONTROLLER
U7
PORT A
PORT B
PORT C
PORT D
PORT E
PORT G
RESET
IRQ
VDD
VSS
10-Bit ADC
DDAD
SSAD
VREFH
VREFL
/RST_DSP
PS_CNTRL
SYNC
384kHz
SPI_CLK
SPI_MOSI
SPI_MISO
SS_DSP
SS_DAC
/RST_DAC
BDM_PORT
BDM_/RESET
PROGRAM SELECT:
MASTER GAIN
Master Level
CLIP
CONNECTOR TO AMP BOARD
W3:F
W3:A
W3:G
W3:B
W3:H
W3:C
W3:I
W3:D
W3:J
W3:E
HORN−
HORN+
PSGND
WOOFER−
WOOFER+
+80V
−15V
Product PS Preamp
DIGITAL
PCB# M1523
Sheet 3 of 3
Date: Mon Aug 26, 2013
Rev:1.00
YsType:{Company
Filename: M1523V01SCH.sch2006
Yorkville



Top Side



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

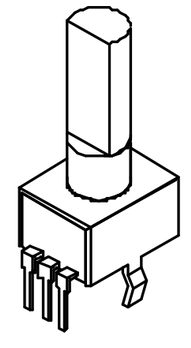
#	DATE	VER#	DESCRIPTION OF CHANGE
1	06-JUN-2013	V01	PC8549: values change R27, R95. See PC. GG
2	17-JUL-2013	.	PC8554: Change U12 to TL072 (YS#SM7669). - ML
3	02-JUN-2015	.	PC8797: Do Not Stuff W1 and program setting jumpers.
4	29-JUN-2015	.	PC8814: Replace W2 right angle hdr (YS#4166)
5	.	.	with vertical hdr (YS#4148)
6	16-MAR-2016	.	PC8866: update jack pads/slots
7	.	.	PC8851: move vias apart near C24
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"

AUDIO-IN
R23 1/8W 1K0 0805
R22 0.1W 7K50 0805
C17 10U 0805 16
10N C20 50V 0805
AGND
R20 1/8W 91K 0805
R21 1W00 15K 2512
47P C16 100V 0805
AGND
2N2 C13 50V 0805
2N2 C14 50V 0805
R18 1/8W 348R0 805
AGND
+5V
U17 TL071CDR
7 +V
1 NC
2
3
4 -V
8 DIS
6 OUT
5 NC
7993
-5V
D5 200V
D6 200V
AGND
100P C12 50V 0805
WSYNC
R37 W125 10K00 0805
R24 1/8W 1K0 0805
0805 1K0 1/8W R33
+5V
200V D7
200V D8
AGND
-5V
R25 1W00 1K 2512
-20V
100N C23 25V 0805
D10 5V1 0W35
AGND
+5V
R17 1W00 1K 2512
+16VF
100N C21 25V 0805
D9 5V1 0W35
AGND
FROM SWITCHING REGULATOR SUPPLY
+16VF
R87 W125 100K 0805
+77V
R54 1M0 1/8W 1206
AC SHUT DOWN FROM POWER SUPPLY
CMPT4401
Q8 7665 SMT
R122 W125 10K00 0805
D56 200V
D53 200V
U6:B FOD817C 6636
HORN-
C31 1U 50V
C84 1U 50V
R139 681 1/8W 0805
22U C103 20V 3528
IN GND ADJ
(Function) LM2991SX
ON/OFF OUT
TO263-5
Q14 8136
R131 8K25 1/8W 0805
-16
SD-COM
GND1
R152 100K 0805 W125
100N C73 25V 0805
10U C118 16V 0805
10U C92 16V 0805
GND
L10 120uH 8101
-20V
TP9
L9 120uH 8101
-20PS
C112 4U7 50V 1210
SECGND
4U7 C113 50V 1210
HORN-
-16V
SD
D41 200V
10U C25 16V 1206
47P C26 100V 0805
AGND
R36 1/8W 3K32 0805
0805 3K32 1/8W R106
U5
VDD
CSD
IN
VSS
NC
VREF
OCSET
DT
CSH
VB
HO
VS
NC
VCC
LO
COM
7884
IRS20957S
DNS
DNS 0805 DNS R28
0805 13K 1/8W R19
SIGNAL
+77V
47K 1W00 R8
2U2 1U C7 25V 1206
+77V
200V D32
R34 3K32 1/8W 0805
R35 3K32 1/8W 0805
R32 1/8W 3K32 0805
MURA240T3 D4
2512 4R7 R10 1W0
+77V
R7 1W00 33K 2512
U3
VCC
IN1 SINK
ZXGD3002E6
IN2 SOURCE
GND
7949
1U C27 50V 1206
R14 1W0 4R7 2512
+77V
IRFB4227 Q1 6972 TO220
D G S
OUTPUT+
2U2 C11 100V 1812
R30 1W0 4R7 2512
GND
2U2 C10 200V 2220
100N C19 450V
100N C29 450V
1812 100V C30 2U2
Q10:A FOD814 1 2 8107
R27 W260 100R 1206
R5 1/8W 1K0 0805
+77V
S3D D2
S3D D3
-77V
10V0 D29
1W0
1W0
D30 10V0
R9 2W00 10K 2512
WOOFER-1
WOOFER+
3 4 W2:C
+
WOOFER
-
4 4 W2:D
WOOFER+1
R90 W75 0R 2010
R91 W75 0R 2010
WOOFER-1
W75 R6 0R 2010
W75 R89 0R 2010
GND
REMOVE R90 AND R91 FOR PS10P (MONO MODE)
REMOVE R6 AND R89 FOR BRIDGE MODE
TP14
6620 L5 64UH
680N C86 160V
GND
C8 10U 0805 16
C85 10U 0805 16
-77V
L11 120uH 8101
+16V
4U7 C114 50V 1210
GND
+16VF
L8 120uH 8101
C111 4U7 50V 1210
GND
+16
L7 8152 220UH
C106 3N3 0805 25V
R151 1/8W 47K5 0805
10N C110 50V 0805
10N C107 50V 0805
D48 1W5 40V
GND
U21
VCC
BST
VIN
SW
LM5008A
RT_SD
7963
RCL
FB
RTN
C105 10N 0805 50V
GND
+20V
R145 274K 1/8W 0805
4U7 C104 50V 1210
R146 68K W125 0805
4U7 C115 50V 1210
R148 5K36 W125 0805
R144 10R0 0.1W 0805
R147 1K0 1/8W 0805
200V D52
4U7 C109 50V 1210
GND
+16.5V SWITCHING REGULATOR SUPPLY
GND1
D35 1W0 5V1
C3 470N 1206 100V
-77V
R120 W250 10R 1206
R13 W250 10R 1206
100N C4 100V 1206
470N C5 100V 1206
U2
VCC
BST
VIN
LM5008A
SW
RT_SD
7963
RCL
RTN
FB
R4 357K 0805 1/8W
R11 274K 0805 1/8W
10N C1 50V 0805
MAKE 100V
100V ZD3 100V0 0W4
8091 L1 1000uH
+15LS
TP13
R1 4K99 1/8W 0805
R2 1K0 1/8W 0805
1U C2 25V 1206
1U C99 25V 1206
100N C6 25V 0805
R12 1R0 W250 1206
-77V
R29 W250 10R 1206
+15LS
U1
VCC
IN1 SINK
ZXGD3002E6
IN2 SOURCE
GND
7949
R15 1W0 4R7 2512
OUTPUT+
IRFB4227 Q3 6972 TO220
D G S
-77V

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Product **PS 10P**		
Woofer Amp A	PCB# M1525	Sheet 1 of 5
Date: Mon Jul 25, 2016	Rev: V04	YsType: YsType
Filename: M1525V04sch.sch2006		

FOR MODEL PS10P PARTS INSIDE DASHED LINES ARE UNPLACED

BI AMP WOOFER

GROUND LINK

GND — GND1

NEG AMP

POS AMP

SIGNAL

DNS

SD

GROUND LINK

GND — AGND1

Product	PS 10P	
Woofer Amp B	PCB# M1525	Sheet 2 of 5
Date: Mon Jul 25, 2016	Rev: V04	YsType: YsType
Filename: M1525V04sch.sch2006		

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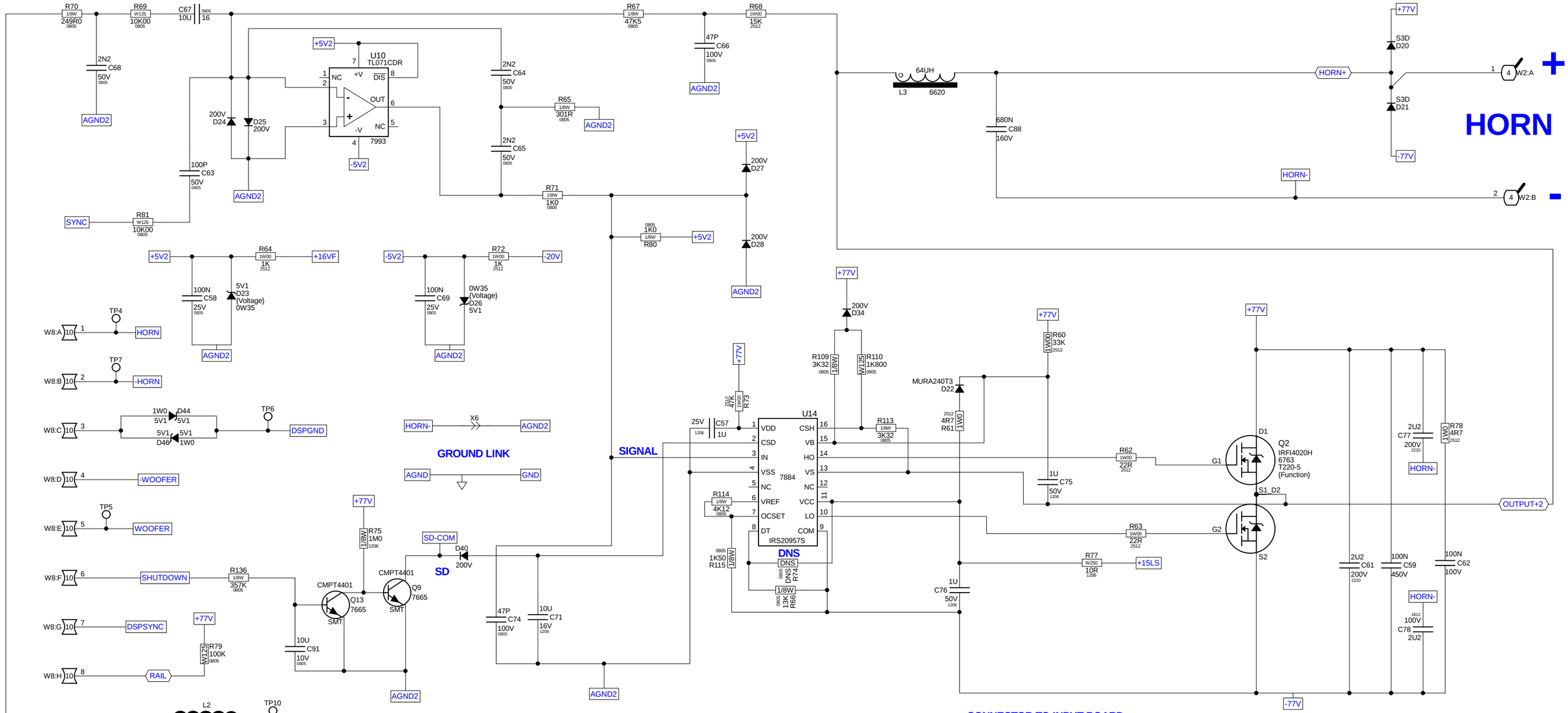
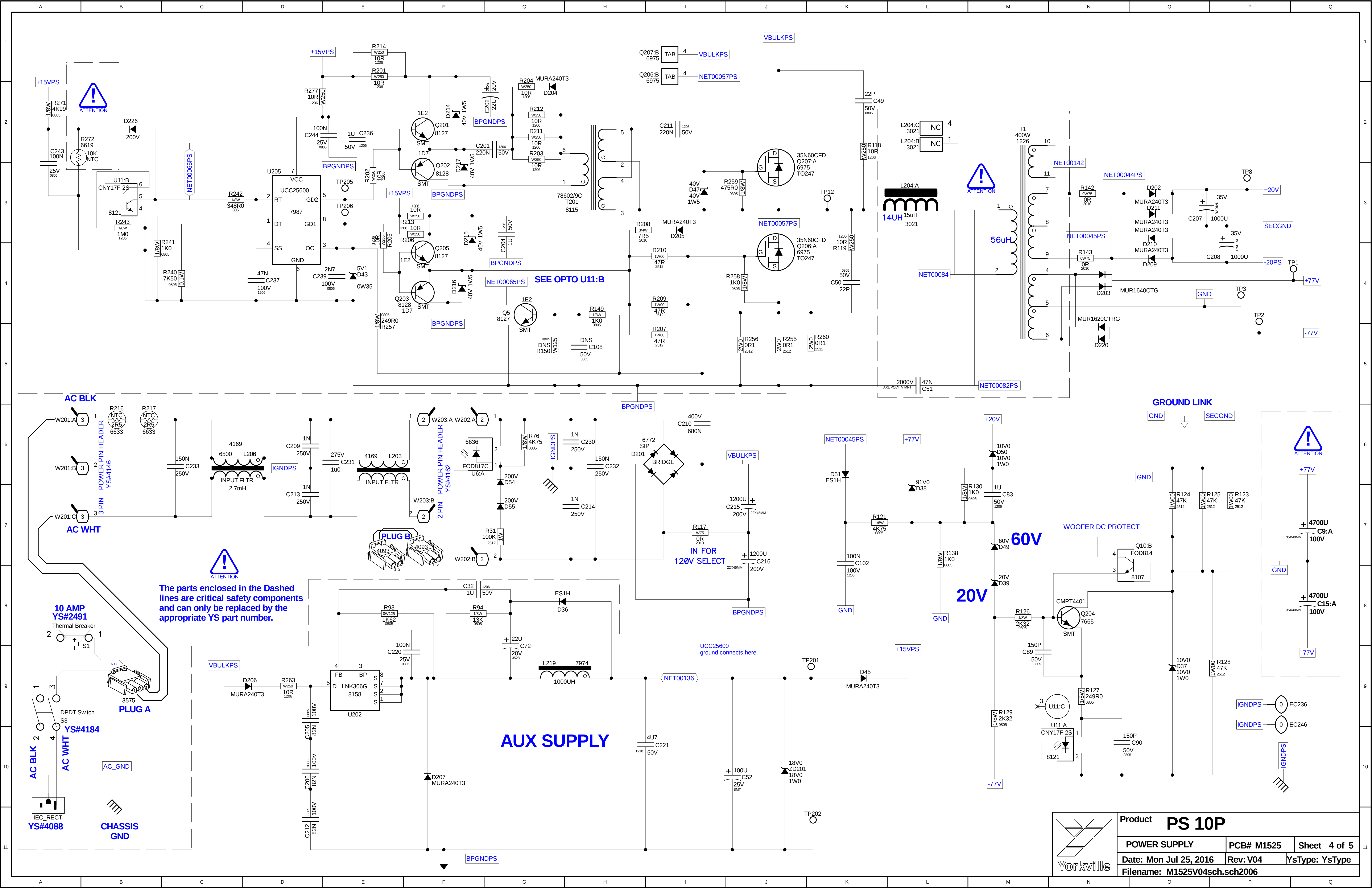
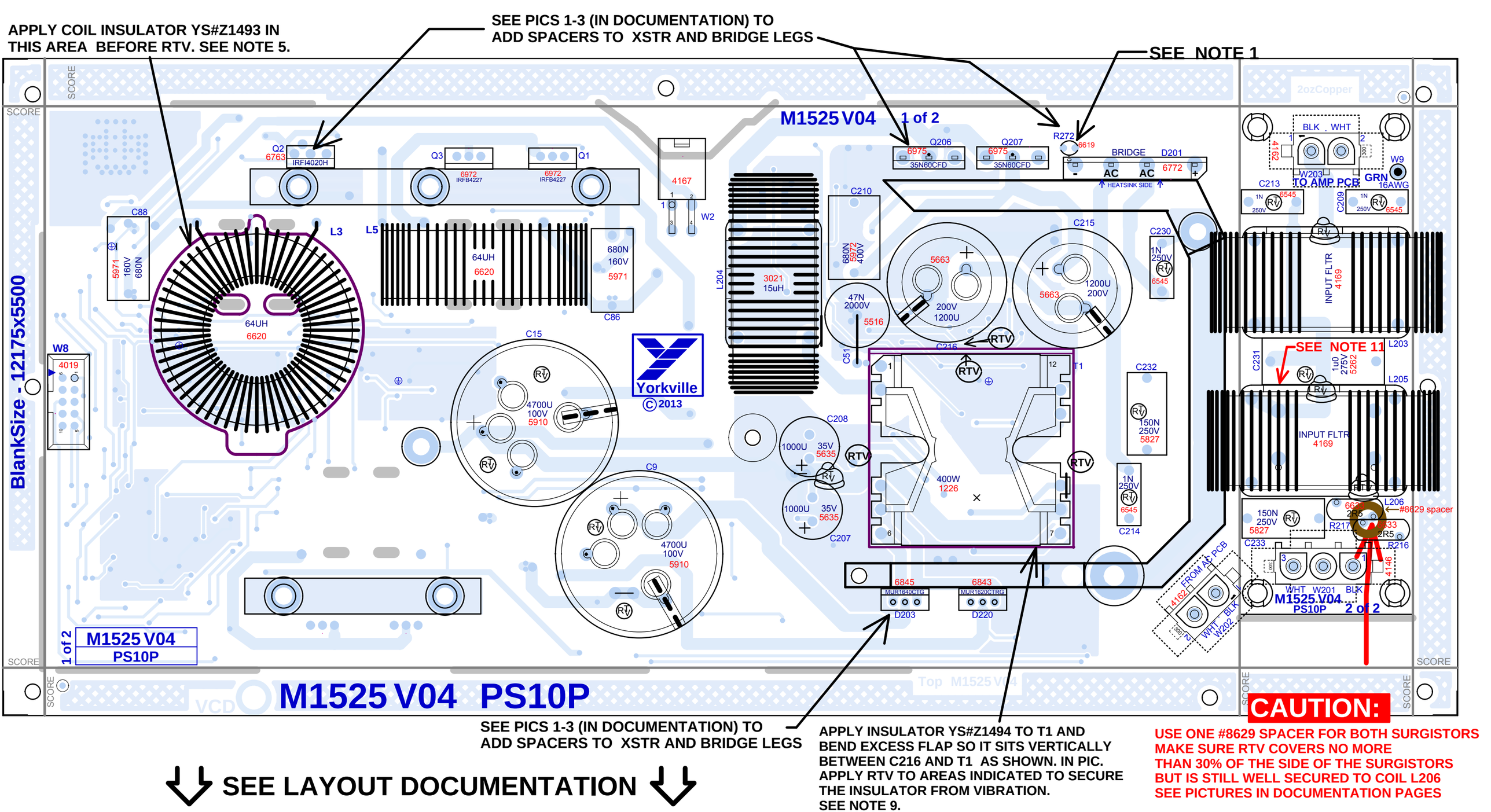


Yorkville	Product	PS 10P	
	Horn Amp	PCB# M1525	Sheet 3 of 5
	Date: Mon Jul 25, 2016	Rev: V04	YsType: YsType
	Filename: M1525V04sch.sch2006		



AC BLK
AC WHT
POWER PIN HEADER YS#4146
3 PIN
POWER PIN HEADER YS#4162
2 PIN
INPUT FLTR 2.7mH
INPUT FLTR
PLUG B
PLUG A
10 AMP YS#2491
Thermal Breaker
DPDT Switch
YS#4184
IEC_RECT YS#4088
CHASSIS GND
ATTENTION
The parts enclosed in the Dashed lines are critical safety components and can only be replaced by the appropriate YS part number.
SEE OPTO U11:B
IN FOR 120V SELECT
BRIDGE
14UH
56uH
60V
20V
GROUND LINK
WOOFER DC PROTECT
AUX SUPPLY
UCC25600 ground connects here
Product PS 10P
POWER SUPPLY
PCB# M1525
Sheet 4 of 5
Date: Mon Jul 25, 2016
Rev: V04
YsType: YsType
Filename: M1525V04sch.sch2006
Yorkville


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
M1525 V04 1 of 2
BlankSize - 12175x5500
SCORE
2ozCopper
Q2 6763 IRFI4020H
Q3 6972 IRFB4227
Q1 6972 IRFB4227
4167
W2
C88
5971 160V 680N
L3
64UH 6620
L5
64UH 6620
680N 160V 5971
C86
W8 4019
C15
4700U 100V 5910
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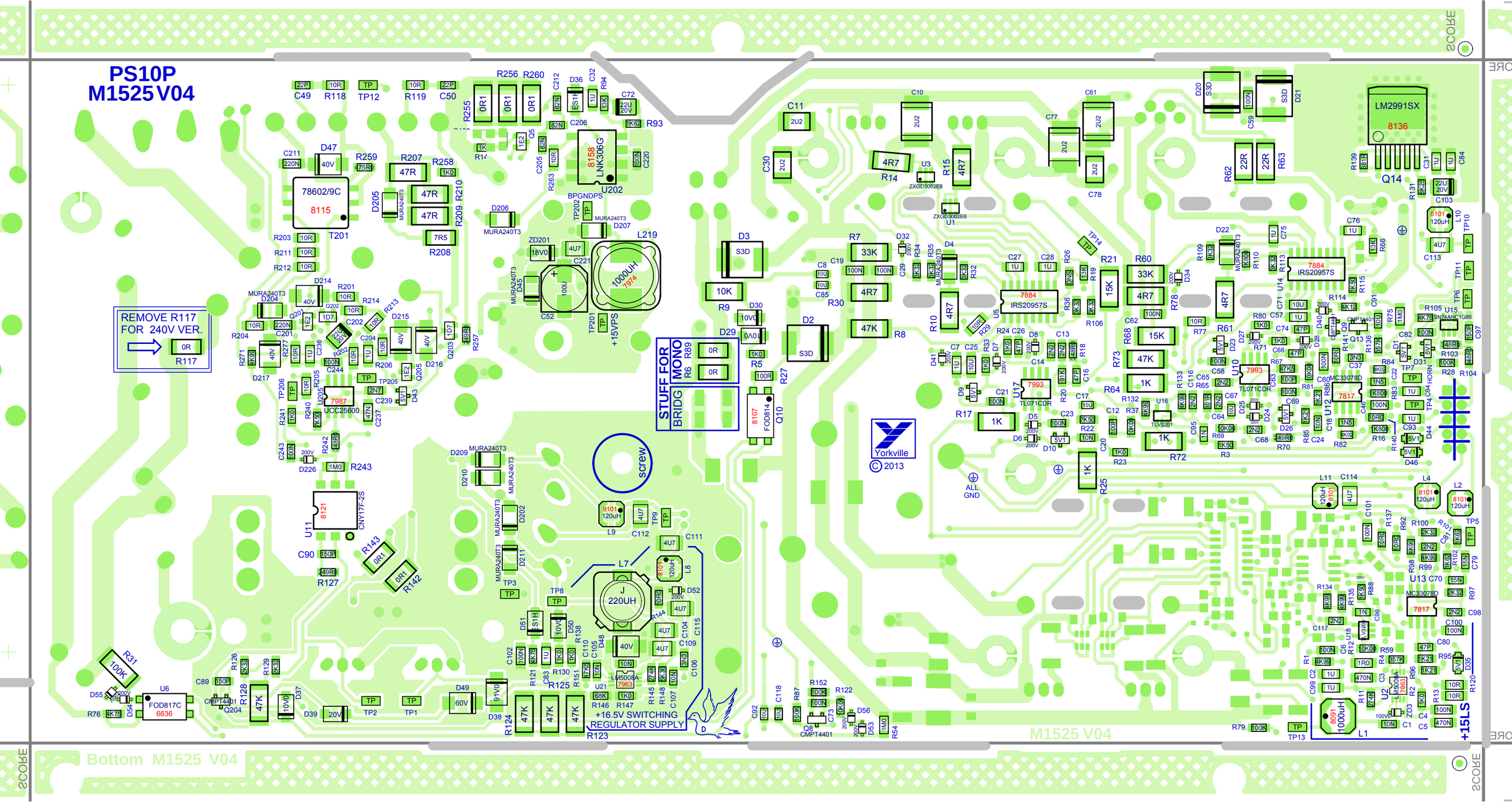
©2013
C9
4700U 100V 5910
L204
3021 15uH
C210
680N 5972 400V
47N 2000V 5516
C51
C208
1000U 35V 5635
C207
1000U 35V 5635
C216
RTV
T1
400W 1226
Q206 6975 35N60CFD
Q207 6975 35N60CFD
R272 6619
BRIDGE D201 6772
- AC AC +
HEATSINK SIDE
C215
5663
200V 1200U
5663
1200U 200V
C230
1N 250V 6545
C232
150N 250V 5827
1N 250V 6545
C214
6845 MUR1640CTG D203
6843 MUR1620CTRG D220
BLK WHT
4162
W203 TO AMP PCB
GRN 16AWG
W9
C213 1N 250V 6545
C209 1N 250V 6545
INPUT FLTR 4169
SEE NOTE 11
C231 1u0 275V 5262
L203
L205
INPUT FLTR 4169
150N 250V 5827
C233
L206
#8629 spacer
2R5
R217 2R5
R216
4146
FROM AC PCB 4162
WHT BLK W202
WHT W201 BLK
M1525 V04 PS10P 2 of 2
1 of 2 M1525 V04 PS10P
M1525 V04 PS10P
Top M1525 V04
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.
SEE LAYOUT DOCUMENTATION
CAUTION:
USE ONE #8629 SPACER FOR BOTH SURGISTORS
MAKE SURE RTV COVERS NO MORE THAN 30% OF THE SIDE OF THE SURGISTORS BUT IS STILL WELL SECURED TO COIL L206
SEE PICTURES IN DOCUMENTATION PAGES

PS10P
M1525 V04



M1525 V04 BOTTOM VIEW

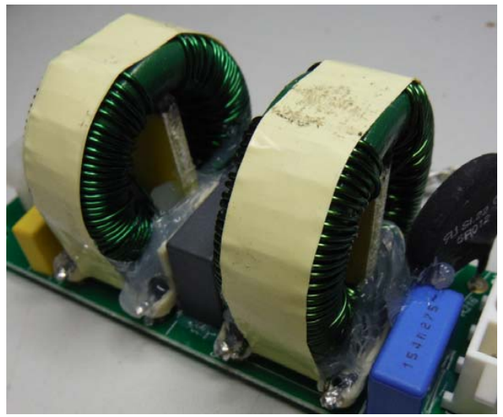
SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

M1525 V04 PS10P PRODUCTION NOTES

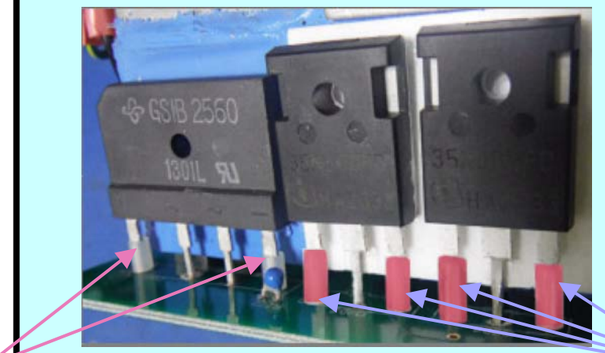
1. IMPORTANT: PIZZA CUTTER MUST BE USED TO SEPARATE THE PCB FROM THE PANEL.
2. USE SMALL NYLON CABLE TIE YS# 3810 TO SECURE L3 AND L5 TO THE PCB.

3. THERMISTOR R272 (YS# 6619) IS HAND INSERTED.
4. DO NOT STUFF COMPONENTS MARKED WITH DNS. IN THE LAYOUT PADS WITH NO COMPONENT OUTLINE OR REF DESIGNATOR ARE ALSO NOT STUFFED.
. RTV BETWEEN AND AROUND ALL TALL CAPS, COILS, AND COMPONENTS.
5. ADD THE REQUIRED NUMBER OF SPACERS #8607 AND #3502 TO THE LEGS OF TRANSISTORS AS INDICATED IN PICTURES 1 - 3.
6. PEEL BACK OFF AND APPLY YS# Z1493 INSULATOR FOR COIL L3 IN LOCATION INDICATED. THIS IS DONE AFTER WAVE BEFORE RTV
7. 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
8. NOTE THAT THIS BOARD USES A WAVE SHIELD THAT REQUIRES THE SOLDER WAVE BE SET TO THE PROPER HEIGHT AND SPEED.
9. AFTER WAVE AND PCB FINISHING, PLEASE PLACE BOARD ON RACK SMT COMPS SIDE UP FOR TRANSPORT TO WIRING DEPARTMENT.
10. 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.
11. 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 I NSIDE AND ALL AROUND THE COIL

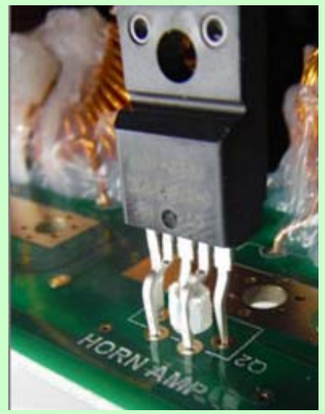


8607 (1)

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

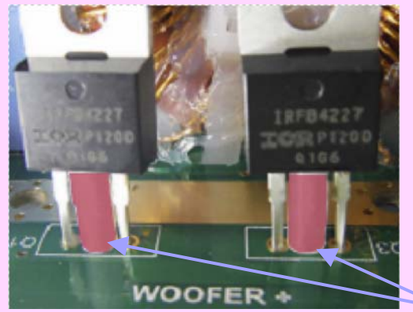
9067 (1)

PIC. 2



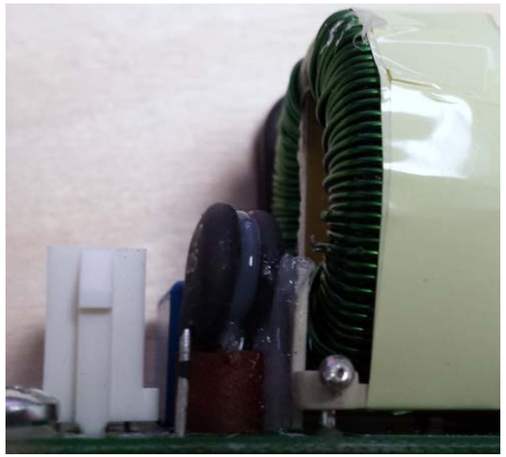
ADD 1 SPACER YS# 8607 TO MIDDLE REAR LEG OF Q2 AS SHOWN

PIC. 3



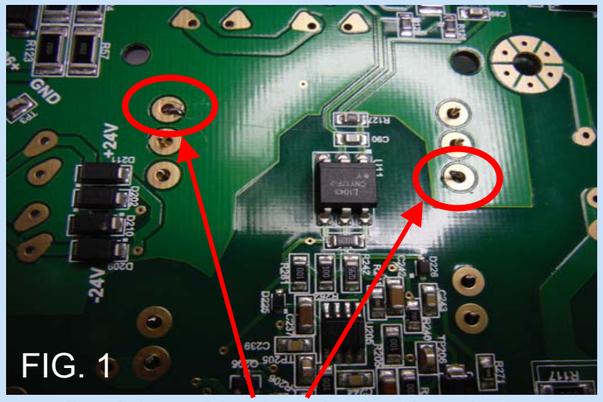
9067 (1)

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

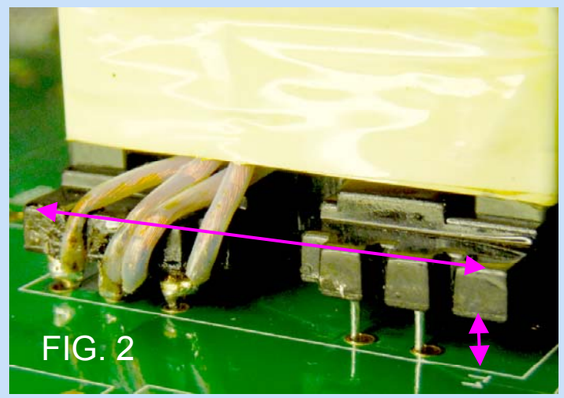


APPLY RTV BETWEEN TWO SURGISTORS AND BETWEEN SURGISTOR AND COIL

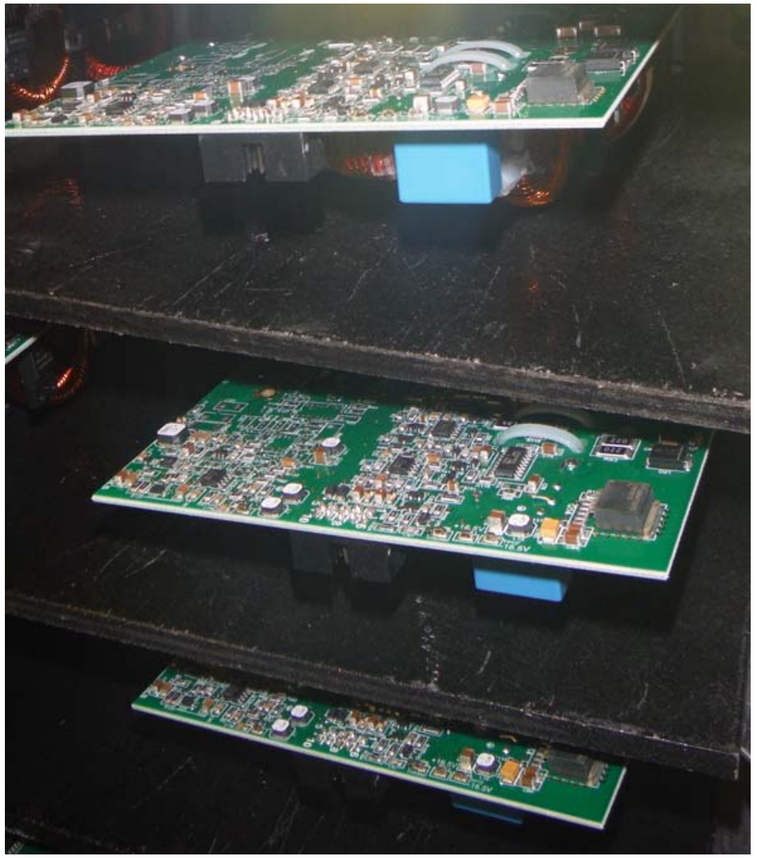
YS#1494 INSULATOR. SEE NOTE 9.



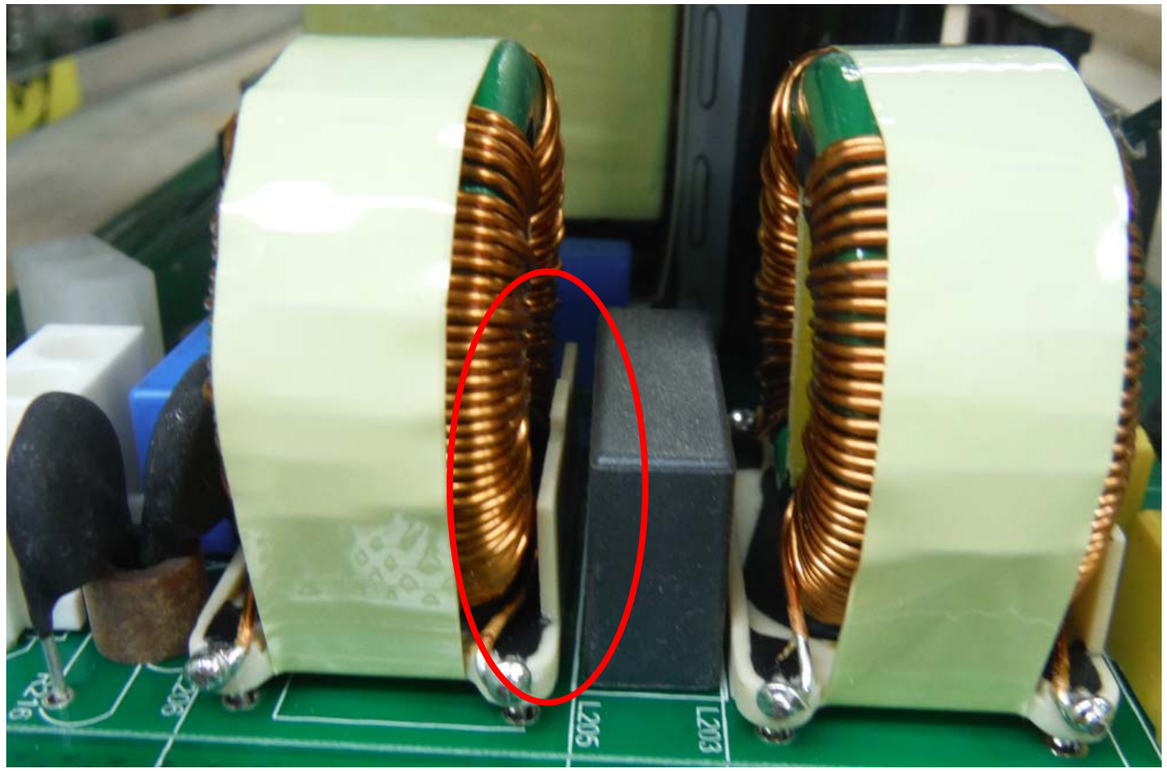
Bend these 2 leads on back of board after inserting T1 (YS# 1226)



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

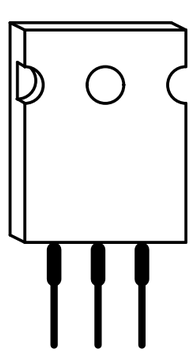


PICTURE FOR NOTE 11.

DESIGN HISTORY AND XSTR PINOUT INFORMATION

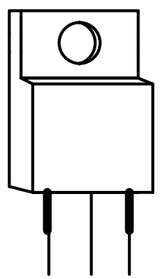
XSTR PIN-OUT

35N60CFD



TO-247AC

IRFB4227



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			
12			
13			

AUX SUPPLY

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

AC BLK / AC WHT

10 AMP
YS#2491
Thermal Breaker
S1
S3
YS#4184
DPDT Switch
PLUG A
3575
IEC_RECT
YS#4088
CHASSIS GND

Product

SW PS

POWER SUPPLY.SCHDOC	PCB# M1519	Sheet 1 of 6
Date: 10-May-18	Rev:V01	YsType:YsType
Filename: POWER SUPPLY.SCHDOC		

Yorkville

WOOFER

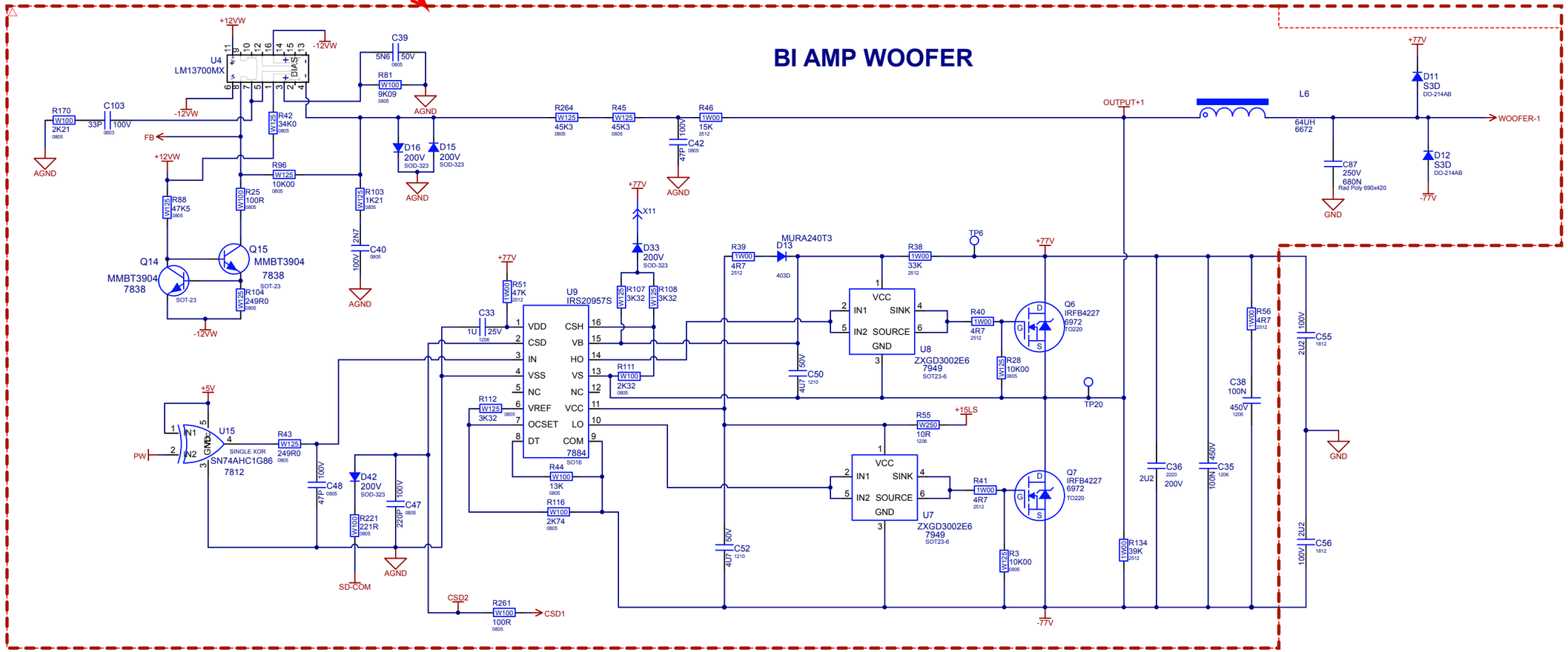
STUFF R6 AND R89
FOR MONO MODE

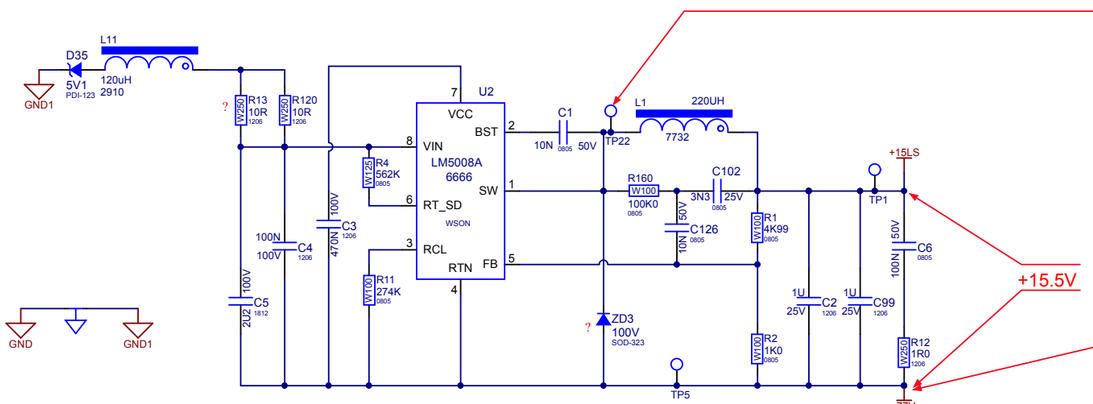
FROM SWITCHING
REGULATOR SUPPLY

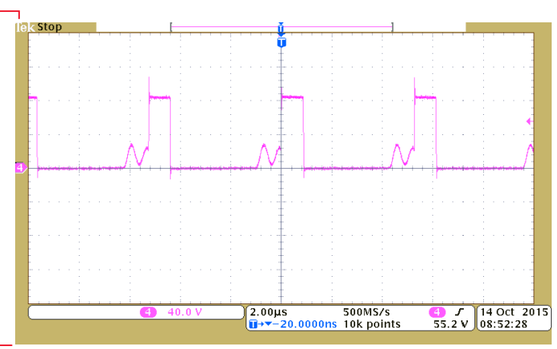
Product	PS 10PCE		
Sheet1.SCHDOC	PCB# 1519	Sheet 2 of 6	
Date: 10-May-18	Rev:V01	YsType:YsType	
Filename: Sheet1.SCHDOC			

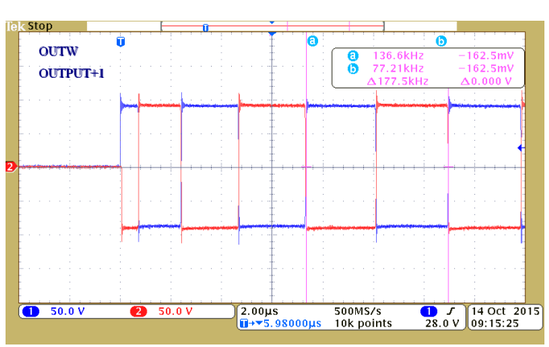
FOR PS10P ALL COMPONENTS ENCLOSED ARE DNS

BI AMP WOOFER

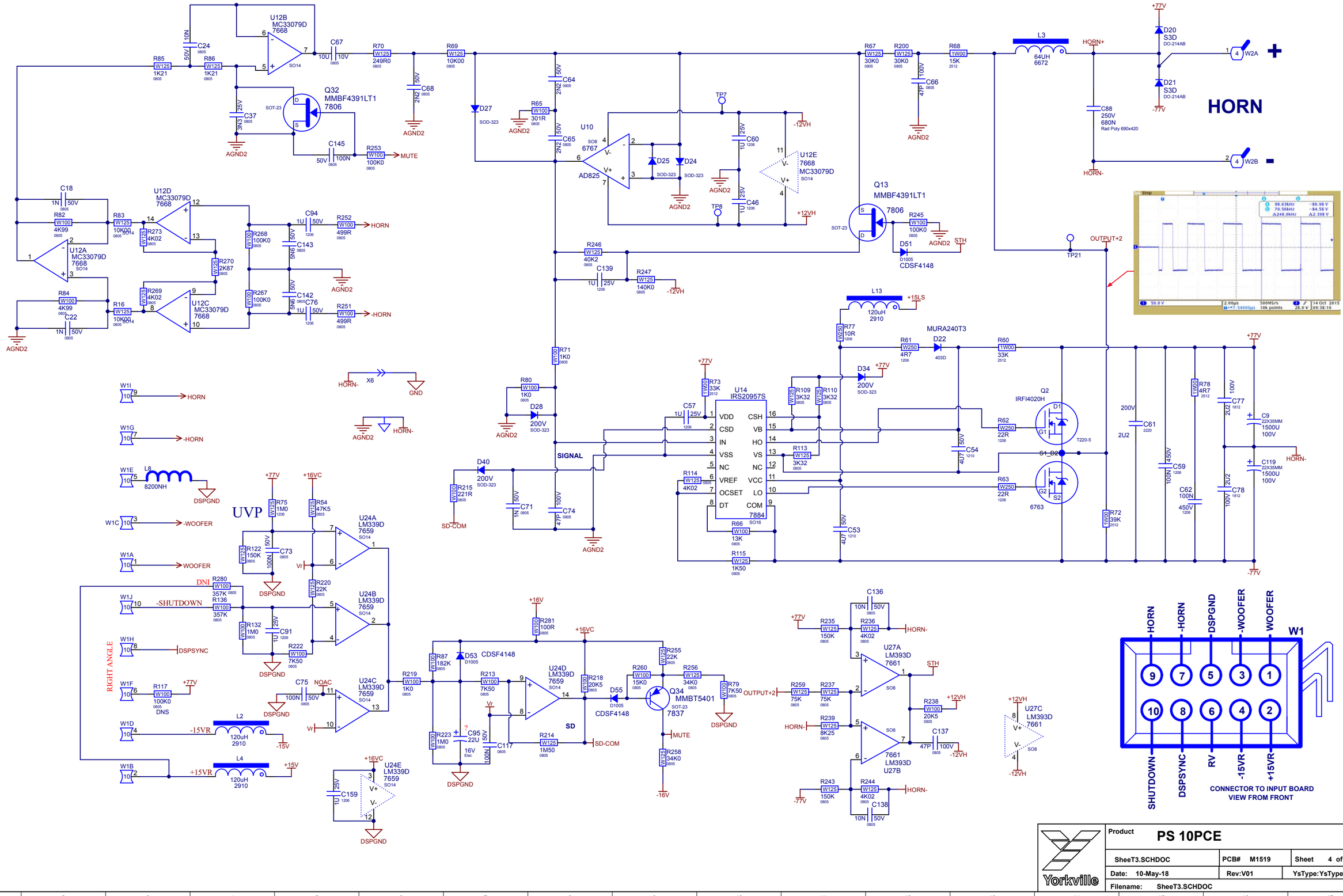








Yorkville	Product	PS 10PCE	
	SheeT2.SCHDOC	PCB# M1519	Sheet 3 of 6
	Date: 10-May-18	Rev:V01	YsType:YsType
	Filename: SheeT2.SCHDOC		


U12B MC33079D 7668
C24 10N
C67 10U
R70 249R0
R69 10K00
C68 2N2
D27
R85 1K21
R86 1K21
C37 3N3
Q32 MMBF4391LT1 7806
C145 100N
R253 100K0
MUTE
AGND2
C18 1N
R82 4K99
R83 10K00
U12D MC33079D 7668
R273 4K02
R268 100K0
C94 1U
R252 499R
HORN
C143 5N6
R270 2K87
R84 4K99
R16 10K00
U12A MC33079D 7668
C22 1N
U12C MC33079D 7668
R269 4K02
R267 100K0
C142 5N6
C76 1U
R251 499R
-HORN
W1I
W1G
HORN-
GND
X6
R65 301R
C64 2N2
C65 2N2
U10 AD825 6767
D25
D24
TP7
TP8
C60 1U
C46 1U
-12VH
+12VH
U12E MC33079D 7668
R246 40K2
C139 1U
R247 140K0
R67 30K0
R200 30K0
C66 47P
R68 15K
L3 64UH 6672
HORN+
HORN-
D20 S3D
D21 S3D
+77V
-77V
W2A
W2B
HORN
C88 250V 680N
Rad Poly 690x420
Q13 MMBF4391LT1 7806
R245 100K0
D51 CDSF4148
STH
TP21
OUTPUT+2
L13 120uH 2910
+15LS
R71 1K0
R80 1K0
D28 200V
D40 200V
R215 221R
SD-COM
SIGNAL
U14 IRS20957S
VDD
CSD
IN
VSS
NC
VREF
OCSET
DT
CSH
VB
HO
VS
NC
VCC
LO
COM
7884
SO16
C57 1U
C71 1N
C74 47P
C54 4U7
C53 4U7
R73 33K
R109 3K32
R110 3K32
R113 3K32
R114 4K02
R115 1K50
R66 13K
D34 200V
MURA240T3
D22
R61 4R7
R60 33K
R62 22R
R63 22R
Q2 IRFI4020H
6763
R72 39K
C61 2U2
C59 100N
C62 100N
R78 4R7
C77 2U2
C78 2U2
C9 22X35MM 1500U 100V
C119 22X35MM 1500U 100V
W1E
W1C
W1A
W1J
W1H
W1F
W1D
W1B
L8 8200NH
DSPGND
-WOOFER
WOOFER
-SHUTDOWN
DSPSYNC
RIGHT ANGLE
DNI
DNS
L2 120uH 2910
-15VR
L4 120uH 2910
+15VR
UVP
R75 1M0
R54 47K5
U24A LM339D 7659
U24B LM339D 7659
U24C LM339D 7659
U24E LM339D 7659
R122 150K
C73
R220 22K
R280 357K
R136 357K
R132 1M0
C91 1U
R222 7K50
C75 NOAC
R117 100K0
C159 1U
+16VC
+16V
R281 100R
D53 CDSF4148
R87 182K
R213 7K50
R223 1M0
C95 22U
C117
U24D LM339D 7659
R218 20K5
R214 1M50
D55 CDSF4148
Q34 MMBT5401 7837
R255 22K
R256 34K0
R258 34K0
R260 15K0
R79 7K50
R219 1K0
-16V
OUTPUT+2
C136 10N
R235 150K
R236 4K02
U27A LM393D 7661
R259 75K
R237 75K
R239 8K25
R238 20K5
C137 47P
U27B LM393D 7661
R243 150K
R244 4K02
C138 10N
U27C LM393D 7661
W1
HORN
-HORN
DSPGND
-WOOFER
WOOFER
SHUTDOWN
DSPSYNC
RV
-15VR
+15VR
CONNECTOR TO INPUT BOARD
VIEW FROM FRONT
Yorkville
Product
PS 10PCE
SheeT3.SCHDOC
PCB# M1519
Sheet 4 of 6
Date: 10-May-18
Rev:V01
YsType:YsType
Filename: SheeT3.SCHDOC

+86.3V
+77V
R92 4K7 1206
R162 10R 1206
Q30 DPAK3 7844
MJD243T4G
+59V..+61V
C153 4U7 1210 50V
D26 DO214AA 371B 60V 8185
C104 2U2 1812
C127 1206 100N 100V
C105 1206 470N 100V
TP14
+59V
U21
LM5008A 6666 WSON
VCC
BST
VIN
SW
RT_SD
RCL
RTN
FB
R145 562K 0805
R146 68K 0805
C110 10N 0805 50V
TP23
L7 120UH 8108
R151 W100 100K0 0805
C106 25V 3N3 0805
C107 10N 0805 50V
R148 9K36 0805
R147 W100 1K0 0805
C115 4U7 1210 50V
R144 W125 10R0 0805
C109 4U7 1210 50V
D52 200V SOD-323
D48 SOD-323 100V
+16V
+16GND
X13
GND
DSPGND
GND
+16.4V
+16V
TP16
R131 W125 91K 0805
R140 W100 4R7 0805
Q24 MMBTA14LTIG 7701 SOT-23
Q29 MMBTA14LTIG 7701 SOT-23
R188 W125 10R0 0805
R187 W125 10R0 0805
C31 1U 1206 25V
+12.3V
+15V
TP17
Q25 7665 SOT-23 MMBT4401
D19 SOD-323 12V0
R142 W125 348R0 0805
C148 1U 1206 25V
R143 W125 348R0 0805
DSPGND
Q26 7837 SOT-23 MMBT5401
D23 SOD-323 12V0
C80 1U 1206 25V
C151 1U 1206 25V
TP18
-15V
-12.5V
Q27 TA64 8022 SOT-23
R183 W125 91K 0805
R186 W125 10R0 0805
TP19
-16V
-16.3V
+16V
R178 W125 91K 0805
R179 W125 10R0 0805
Q20 MMBTA14LTIG 7701 SOT-23
+12.6V
+12VH
C63 1U 1206 25V
Q21 MMBT4401 7665 SOT-23
D14 SOD-323 12V0
C150 1U 1206 25V
R181 W125 348R0 0805
AGND2
R174 W125 348R0 0805
Q22 7837 SOT-23 MMBT5401
D17 SOD-323 12V0
C69 1U 1206 25V
C147 1U 1206 25V
-12VH
-12.6V
Q23 TA64 8022 SOT-23
R184 W125 91K 0805
R185 W125 10R0 0805
-16V
+16V
R76 W125 91K 0805
R173 W125 10R0 0805
Q16 MMBTA14LTIG 7701 SOT-23
+12.3V
C45 1U 1206 25V
R141 W125 10R0 0805
+12VW
Q18 MMBT4401 7665 SOT-23
D8 SOD-323 12V0
C152 1U 1206 25V
R105 W125 348R0 0805
AGND
R137 W125 348R0 0805
Q17 7837 SOT-23 MMBT5401
D10 SOD-323 12V0
C149 1U 1206 25V
C58 1U 1206 25V
R180 W125 10R0 0805
-12VW
-12.4V
Q19 TA64 8022 SOT-23
R175 W125 91K 0805
R182 W125 10R0 0805
-16V
Q12 8165 SOT-23 MMBTA92
R167 W100 20K5 0805
R168 W100 100R 0805
C112 4U7 1210 50V
-16V
GND
D39 MURA240T3 403D
L12 220UH 7732
R169 W125 3K32 0805
C130 50V 270P 0805
C129 25V 3N3 0805
R165 W100 15K0 0805
GND
R161 W100 10K 2512
R90 W100 15K0 0805
R166 W125 1K62 0805
U23 LM5020 6651 VSSOP10
VIN FB COMP VCC OUT
SS RTSYNC CS UVLO GND
C133 1206 470N 100V
D45 SOD-323 12V0
R91 W125 10R0 0805
Q11 FDT3612 6977 SOT233
R163 W100 100R 0805
C131 50V 10N
R135 W125 3K32 0805
R171 W125 14K 0805
C128 50V 1N 0805
R164 W250 1R0 1206
TP15
-59V
-59V..-61V
GND
D31 DO214AA 371B 60V 8185
C82 2U2 1812 100V
C154 4U7 1210 50V
Q31 MJD253T4G DPAK3 7845
R139 W250 4K7 1206
R172 W250 10R 1206
-77V
-86.3V
Stop
20.0 V
20.0 V
2.00µs 500MS/s
10k points
-28.4 V
29 Sep 2015
10:54:31
PreVu
No Input Board Connected
20.0 V
20.0 V
4.00µs 250MS/s
10k points
-34.4 V
13 Oct 2015
09:42:55

Section:	LV Pwr Supply
Product(s):	PS10PCE
PCB#: M1519	Rev#: V01
EML Rev#: 01	Sheet 5 Of 6
Modified: 10-May-18	File: LV-PS.SchDoc
Tmp Rev: TemplateRev	

Yorkville

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	19-JAN-2018	V01	.	RELEASED FOR PRODUCTION
2	10-MAY-2018	.	9222	CHANGE R275 VALUE FROM 2K74 (#7633) TO 8K66 (#8321)
3	.	.	.	.
4	.	.	.	.
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12	.	.	.	.
13	.	.	.	.

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

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

POTENTIOMETERS AND KNOBS			
REF	FUNCTION	POT#	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.

Yorkville

Section: Design Information And History
Product(s): PS10PCE
PCB#: M1519 | Rev#: V01 | EML Rev#: 01 | Sheet 6 Of 6
Modified: 10-May-18 | File: History.SchDoc | Tmp Rev: TemplateRev

Into Wave

Score

BlankSize - 139.7mmX281.94mm

Yorkville
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PS10PCE V01 M1519

2MM THK

VCD▸ M1519 V01 PS10PCE

Score
CLINCH

PS10PCE
M1519 V01

+340V

HB_OUT
SCOPE

1668
SHLD2

BPGNDPS

+340V

2MM THK

M1519 V01 SCOPE

GATEPS

+15.5V

-86.3V

+86.3V

+12.3V

OUTPUT+1
SCOPE

-12.4V

-12.6V

+12.6V

+16.4V

-16.3V

+12.3V

-12.5V

+14V

AUXGND

-59-61V

-86.3V

+86.3V

SCOPE

+59-61V

OUTPUT+2

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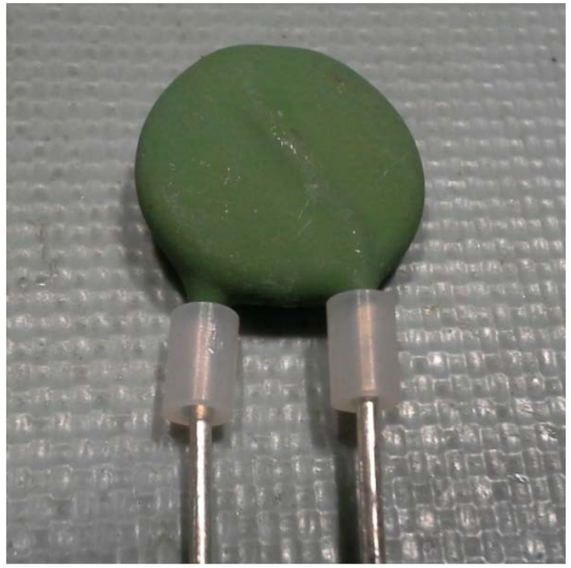
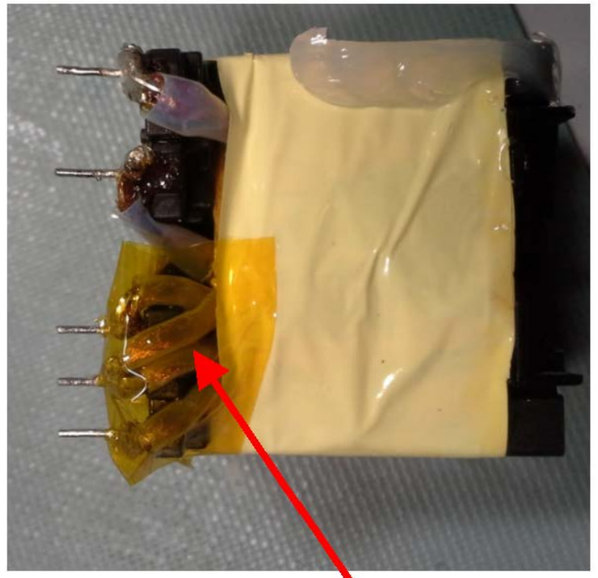
PCB PRE-ASSEMBLY DOCUMENTATION

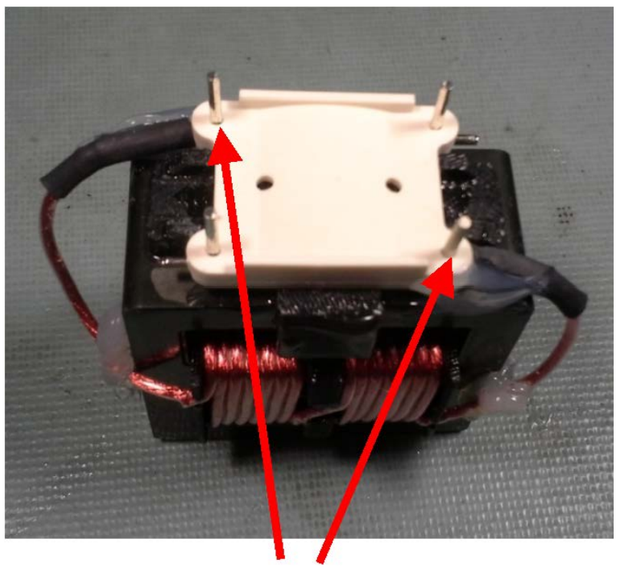
USE THESE NOTES TO ASSEMBLE OR PREPARE PARTS
BEFORE INSERTING INTO PCB AND ALSO PRIOR TO WAVE



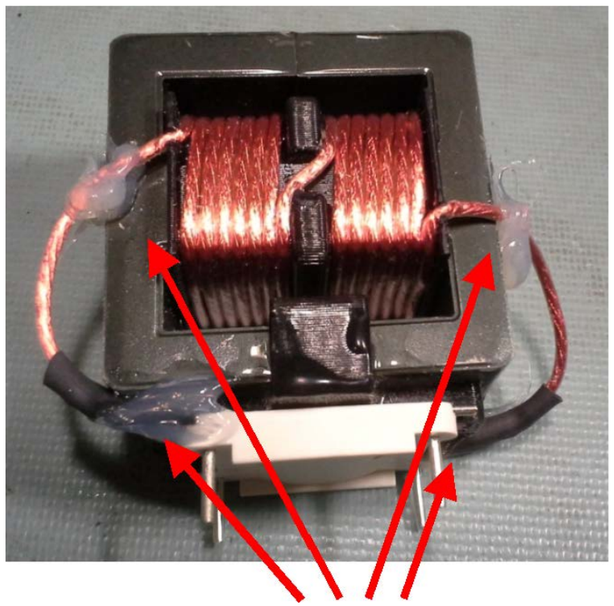
FOR YS PN 6622 USE NYLON SPACER PN 8607



APPLY 1" WIDE KAPTON TAPE OVER PIN AND LEADS ON T1



DO NOT GET SILICONE ON PINS



SILICONE APPLIED TO 4 PLACES ON L204

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

Yorkville	Section: Assembly Documentation				
	Product(s): PS10PCE				
	PCB#: M1519	Rev#: V01	EML Rev#: 01	Sheet 7 Of 8	
	Modified: 10-May-18	File: Pre-Assembly.SchDoc		Tmp Rev: TemplateRev	

PCB ASSEMBLY DOCUMENTATION

SPECIAL 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. ADD APPROPRIATE SPACERS TO LEGS OF XTRS AND RECTIFIERS AS INDICATD IN PICS 1-3.
   SEE ALSO PRE-ASSEMBLY NOTES

4. CUT LEADS SHORT ON ALL HAND PLACED TRANSISTORS.

5. NOTE THAT THIS BOARD USES A WAVE SHIELD THAT REQUIRES THE SOLDER WAVE BE SET TO THE PROPER HEIGHT AND SPEED.

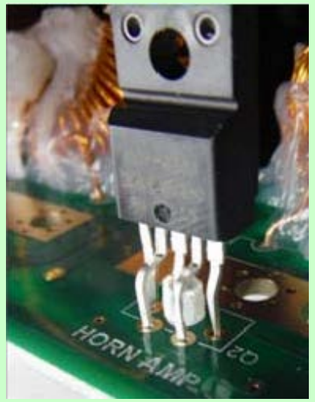
6. AFTER WAVE SOLDER. PLACE SHLD2 (YS#1668) ON BOTTOM OF BOARD AND HAND SOLDER.

7. APPLY RTV WHERE INDICATED AND BETWEEN TALL COMPONENTS.

8. BEFORE TRANSPORTING TO WIRING PLEASE SEPARATE BOARD FROM PANEL USING PIZZA CUTTER
   THEN BREAKING NON SCORED END GENTLY WITH APPROPRIATE TOOL

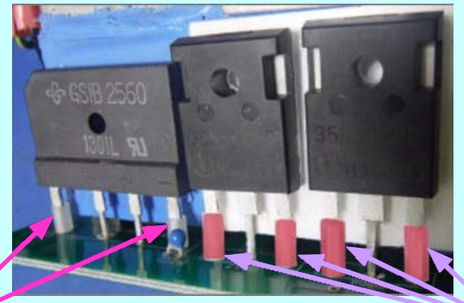
BOARDS PLACED UPSIDE DOWN ON RACK AFTER WAVE SOLDERING

PIC. 2



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

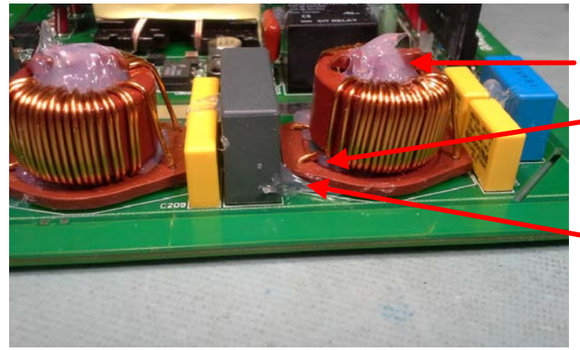
PIC. 1



8607

ADD NUMBERS OF SPACERS YS# 8607 AND 9067 INDICATED TO LEGS SHOWN FOR D201, Q206 AND Q207

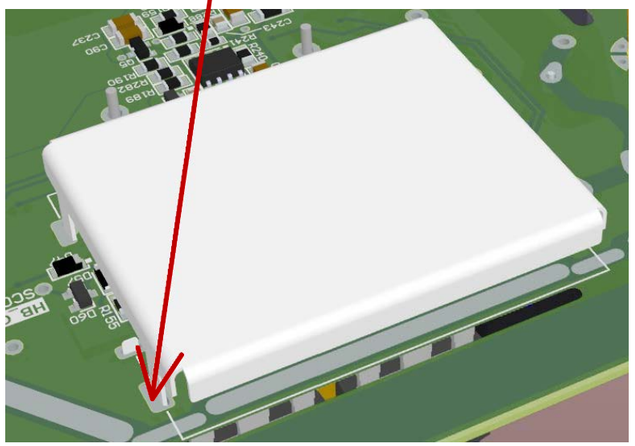
9067



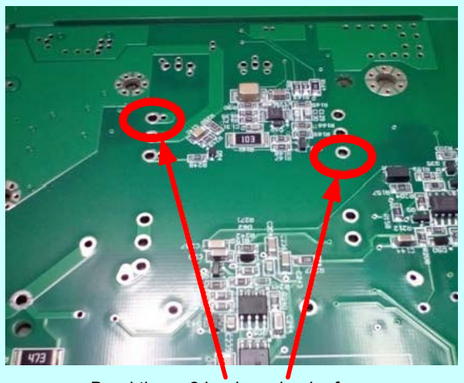
INJECT SILICONE INTO COILS, NOTE SILICONE MUST COME OUT FOR A GOOD FILL

SILICONE IS ALSO INJECTED FROM BOTTOM OF PCB, IT MUST COME OUT UNDER PART.

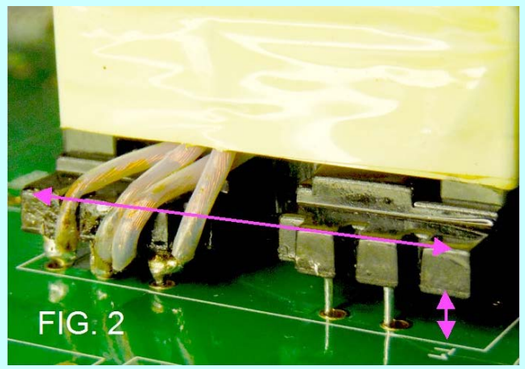
HAND SOLDER SHLD2 IN 4 PLACES



AFTER WAVE SOLDERING, SOLDER SHLD 2 TO BOTTOM OF PCB WHERE SHOWN

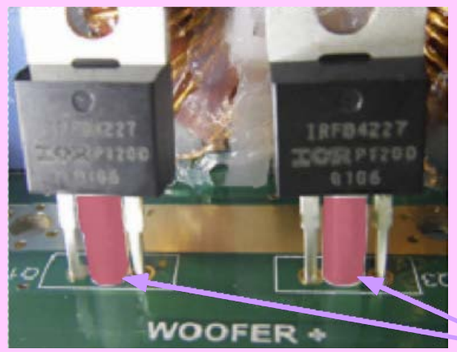


Bend these 2 leads on back of board after inserting T1 (YS# 1226)



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

PIC. 3



9067

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

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

Yorkville	Section: Assembly Documentation				
	Product(s): PS10PCE				
	PCB#: M1519	Rev#: V01	EML Rev#: 01	Sheet 7 Of 8	
	Modified: 10-May-18	File: Assembly.SchDoc		Tmp Rev: TemplateRev	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	19-JAN-2018	V01	.	RELEASED FOR PRODUCTION
2	10-MAY-2018	.	9222	CHANGE R275 VALUE FROM 2K74 (#7633) TO 8K66 (#8321)
3	.	.	.	.
4	.	.	.	.
5	.		.	.
6	.	.	.	.
7	.	.	.	.
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10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
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9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
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11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

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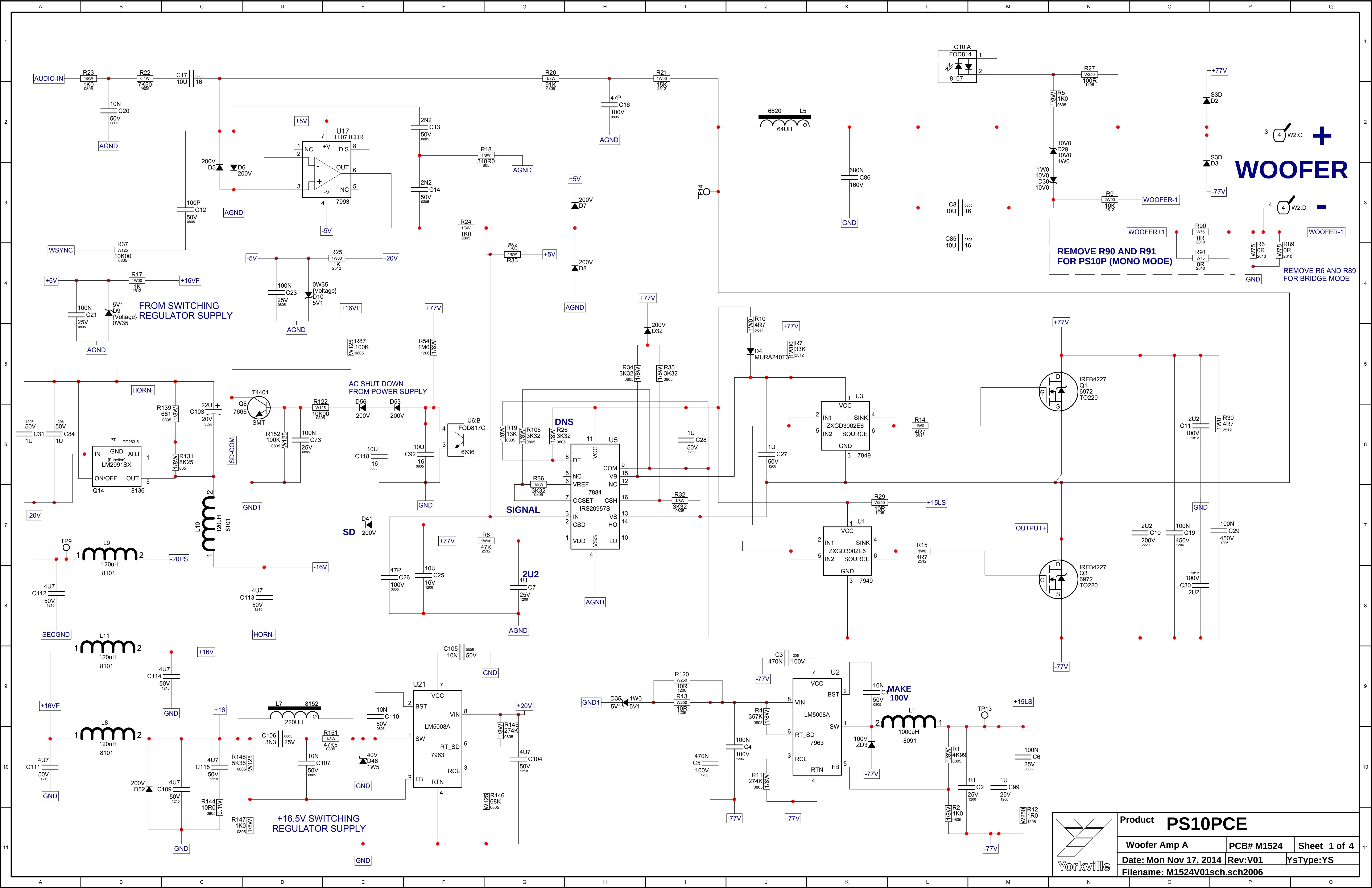
PINOUT DIAGRAMS

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

Yorkville

Section: Design Information And History
Product(s): PS10PCE
PCB#: M1519 | Rev#: V01 | EML Rev#: 01 | Sheet 6 Of 6
Modified: 10-May-18 | File: History.SchDoc | Tmp Rev: TemplateRev



AUDIO-IN
WSYNC
FROM SWITCHING REGULATOR SUPPLY
AC SHUT DOWN FROM POWER SUPPLY
DNS
SIGNAL
SD
2U2
WOOFER
+
-
REMOVE R90 AND R91 FOR PS10P (MONO MODE)
REMOVE R6 AND R89 FOR BRIDGE MODE
+16.5V SWITCHING REGULATOR SUPPLY
MAKE 100V
Yorkville
Product PS10PCE
Woofer Amp A
PCB# M1524
Sheet 1 of 4
Date: Mon Nov 17, 2014
Rev:V01
YsType:YS
Filename: M1524V01sch.sch2006

FOR MODEL PS10P PARTS INSIDE DASHED LINES ARE UNPLACED

BI AMP WOOFER

GROUND LINK

GND — GND1

NEG AMP

POS AMP

SIGNAL

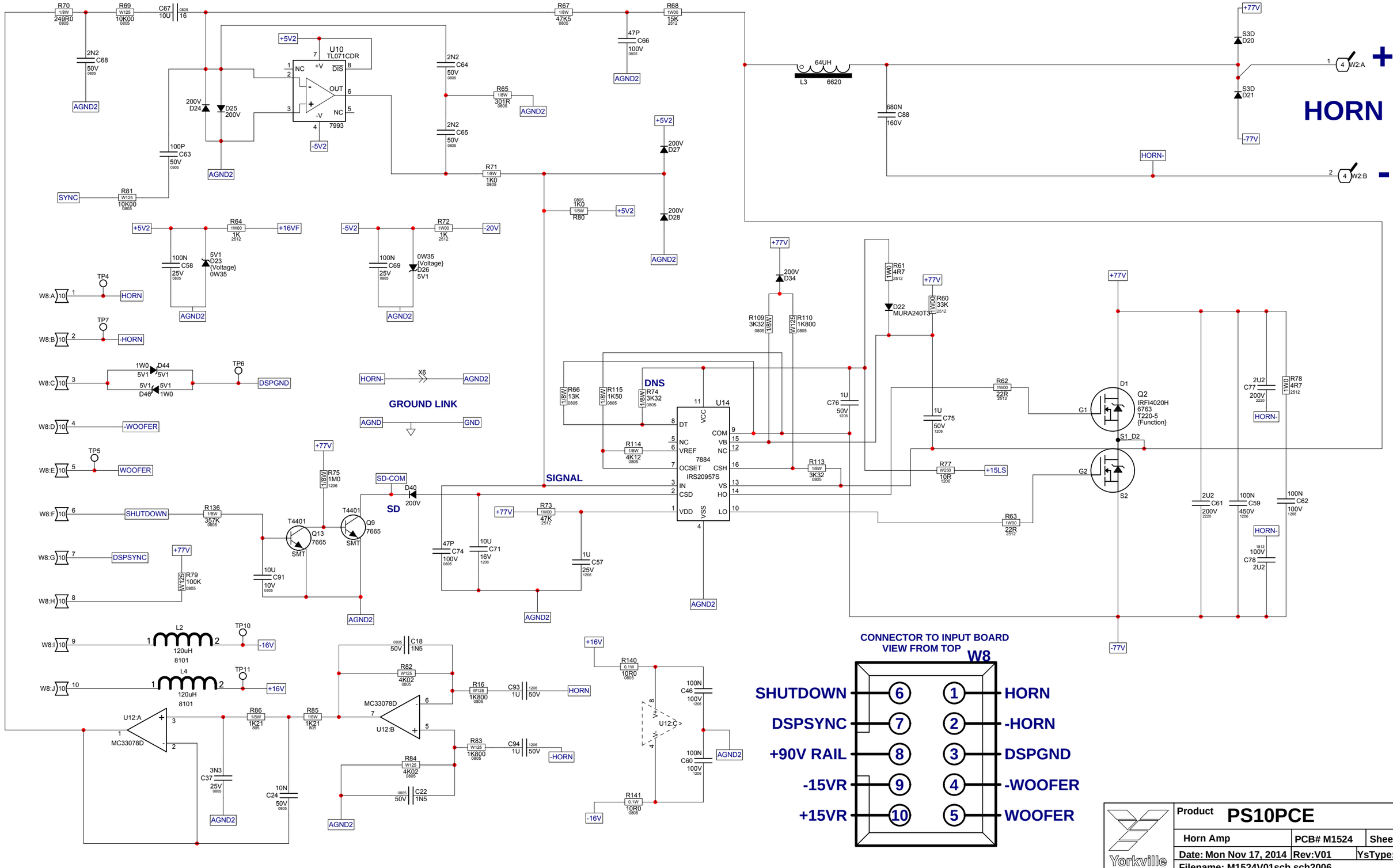
SD

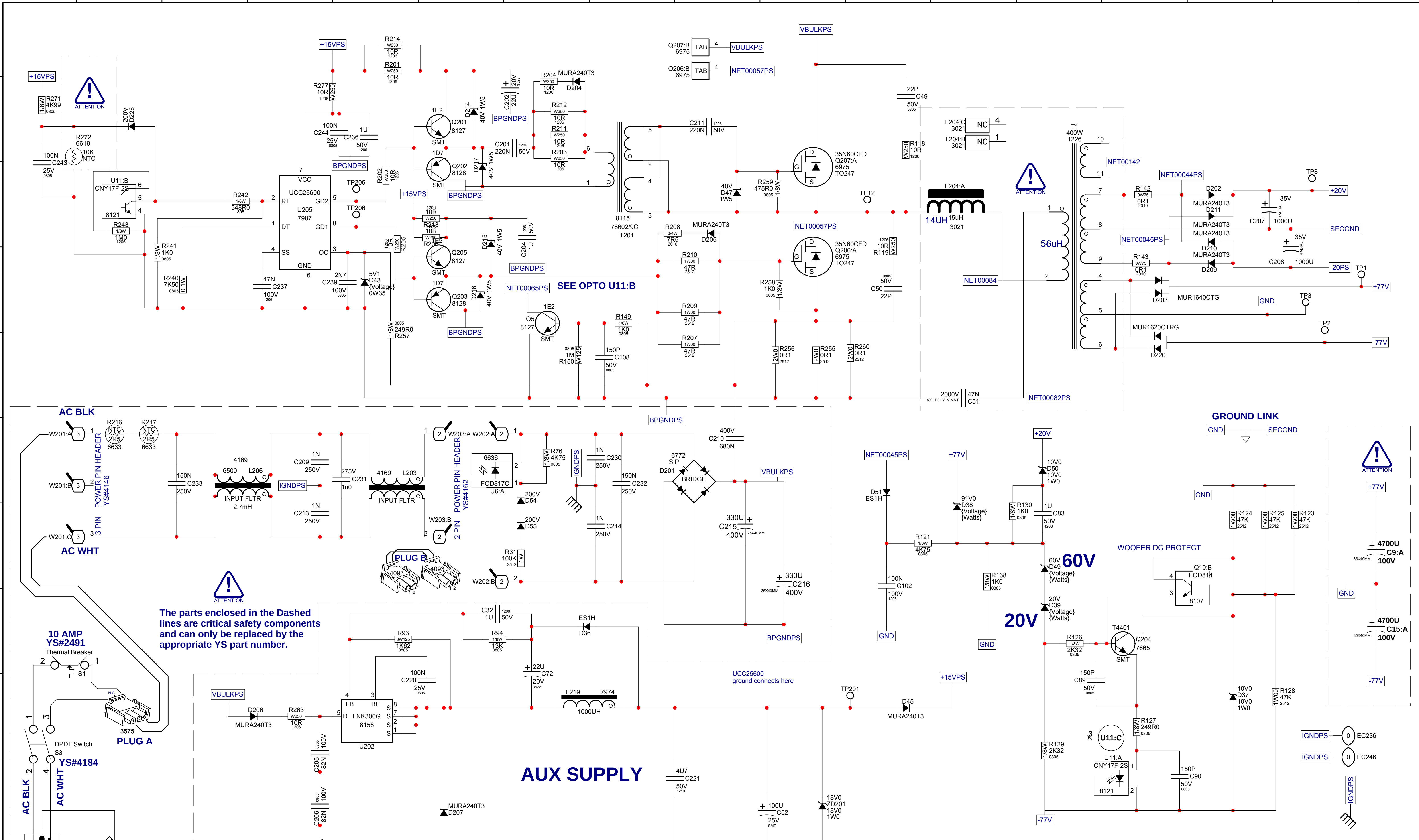
GROUND LINK

GND — AGND1

Product	PS10PCE	
Woofer Amp B	PCB# M1524	Sheet 2 of 4
Date: Mon Nov 17, 2014	Rev:V01	YsType:YS
Filename: M1524V01sch.sch2006		

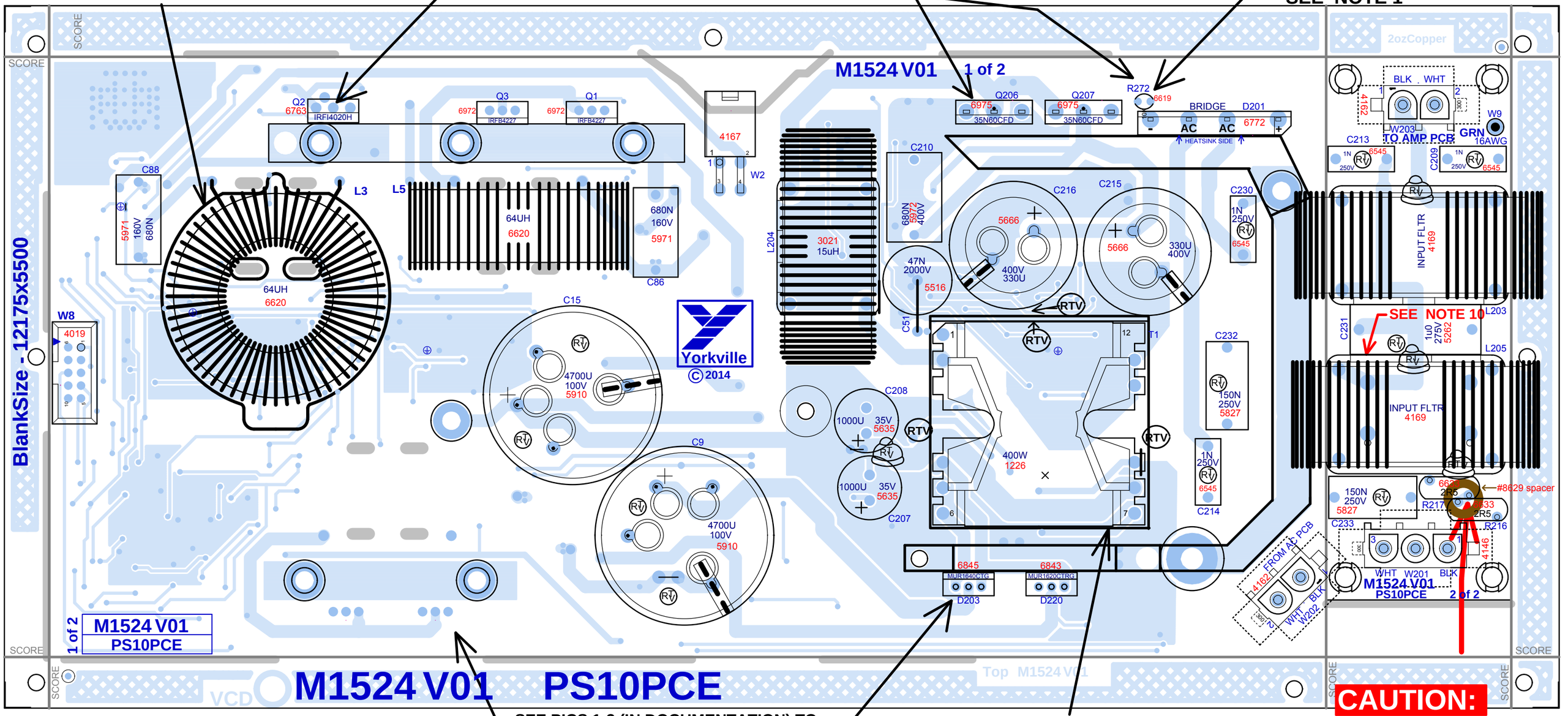
Yorkville


R70 1/8W 249R0 0805
R69 W125 10K00 0805
C67 10U 0805 16
2N2 C68 50V 0805
AGND2
SYNC
R81 W125 10K00 0805
100P C63 50V 0805
200V D24
D25 200V
+5V2
U10 TL071CDR
NC +V DIS OUT NC -V
7993
-5V2
2N2 C64 50V 0805
2N2 C65 50V 0805
R65 1/8W 301R 0805
R67 1/8W 47K5 0805
R68 1W00 15K 2512
47P C66 100V 0805
64UH L3 6620
680N C88 160V
+77V
S3D D20
S3D D21
-77V
W2:A
W2:B
HORN
HORN-
R71 1/8W 1K0 0805
200V D27
200V D28
R80 1K0 0805
R64 1W00 1K 2512
+16VF
100N C58 25V 0805
5V1 D23 {Voltage} 0W35
R72 1W00 1K 2512
-20V
100N C69 25V 0805
0W35 {Voltage} D26 5V1
TP4
W8:A 10 1 HORN
TP7
W8:B 10 2 -HORN
W8:C 10 3
1W0 D44 5V1 5V1
5V1 5V1 D46 1W0
TP6
DSPGND
W8:D 10 4 -WOOFER
TP5
W8:E 10 5 WOOFER
W8:F 10 6 SHUTDOWN
W8:G 10 7 DSPSYNC
W8:H 10 8
W8:I 10 9
W8:J 10 10
X6
HORN-
AGND2
GROUND LINK
AGND
GND
SIGNAL
SD
SD-COM
D40 200V
R75 1/8W 1M0 1206
R136 1/8W 357K 0805
R79 W125 100K 0805
T4401 Q13 7665 SMT
T4401 Q9 7665 SMT
10U C91 10V 0805
+77V
R73 1W00 47K 2512
47P C74 100V 0805
10U C71 16V 1206
1U C57 25V 1206
DNS
U14
IRSM20957S
7884
DT VCC
NC VREF
OCSET CSH
IN VS
CSD HO
VDD VSS LO
R66 1/8W 13K 0805
R115 1/8W 1K50 0805
R74 1/8W 3K32 0805
R114 1/8W 4K12 0805
R113 1/8W 3K32 0805
1U C76 50V 1206
R109 1/8W 3K32 0805
R110 W125 1K800 0805
R61 1W0 4R7 2512
D22 MURA240T3
R60 1W00 33K 2512
1U C75 50V 1206
R62 1W00 22R 2512
R77 W250 10R 1206
+15LS
R63 1W00 22R 2512
D1
Q2 IRFI4020H 6763 T220-5 {Function}
G1
S1_D2
G2
S2
2U2 C77 200V 2220
R78 1W0 4R7 2512
2U2 C61 200V 2220
100N C59 450V 1206
100N C62 100V 1206
1812 100V C78 2U2
L2 120uH 8101
L4 120uH 8101
TP10
TP11
-16V
+16V
U12:A MC33078D
U12:B MC33078D
U12:C
R86 1/8W 1K21 805
R85 1/8W 1K21 805
3N3 C37 25V 0805
10N C24 50V 0805
R82 W125 4K02 0805
R84 W125 4K02 0805
C18 50V 1N5
C22 50V 1N5
R16 W125 1K800 0805
R83 W125 1K800 0805
C93 1U 1206 50V
C94 1U 1206 50V
R140 0.1W 10R0 0805
R141 0.1W 10R0 0805
100N C46 100V 1206
100N C60 100V 1206
CONNECTOR TO INPUT BOARD
VIEW FROM TOP
W8
SHUTDOWN 6
DSPSYNC 7
+90V RAIL 8
-15VR 9
+15VR 10
1 HORN
2 -HORN
3 DSPGND
4 -WOOFER
5 WOOFER
Yorkville
Product PS10PCE
Horn Amp
PCB# M1524
Sheet 3 of 4
Date: Mon Nov 17, 2014
Rev:V01
YsType:YS
Filename: M1524V01sch.sch2006



Product	PS10PCE		
Power Supply	PCB# M1524	Sheet 4 of 4	
Date: Mon Nov 17, 2014	Rev:V01	YsType:YS	
Filename: M1524V01sch.sch2006			

Yorkville


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
M1524 V01 1 of 2
BlankSize - 12175x5500
Q2 6763 IRFI4020H
Q3 6972 IRFB4227
Q1 6972 IRFB4227
Q206 6975 35N60CFD
Q207 6975 35N60CFD
R272 6619
BRIDGE D201 6772
HEATSINK SIDE
C88 5971 160V 680N
L3
L5
64UH 6620
680N 160V 5971
C86
4167
W2
L204 3021 15uH
C210 680N 5972 400V
47N 2000V 5516
C51
C216 5666 400V 330U
C215 5666 330U 400V
C230 1N 250V 6545
RTV
T1
C232 150N 250V 5827
C214 1N 250V 6545
400W 1226
W8 4019
C15 4700U 100V 5910
C9 4700U 100V 5910
C208 1000U 35V 5635
1000U 35V 5635
C207
Yorkville
©2014
D203 6845 MUR1640CTG
D220 6843 MUR1620CTRG
BLK WHT 4112
W203 TO AMP PCB
GRN 16AWG W9
C213 1N 250V 6545
C209 1N 250V 6545
INPUT FLTR 4169
SEE NOTE 10
C231 1u0 275V 5262
L203
L205
150N 250V 5827
C233
R217 6633 2R5
R216 2R5
#8629 spacer
4146
FROM AC PCB 4162
WHT W202 BLK
WHT W201 BLK
M1524 V01 PS10PCE 2 of 2
1 of 2 M1524 V01 PS10PCE
SCORE
2ozCopper
M1524 V01 PS10PCE
Top M1524 V01
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.
SEE LAYOUT DOCUMENTATION
CAUTION:
USE ONE #8629 SPACER FOR BOTH SURGISTOR
MAKE SURE RTV COVERS NO MORE THAN 30% OF THE SIDE OF THE SURGISTORS BUT IS STILL WELL SECURED TO COIL L206
SEE PICTURES IN DOCUMENTATION PAGES

PS10PCE
M1524 V01

Yorkville
© 2014

Bottom M1524 V01

M1524 V01 BOTTOM VIEW

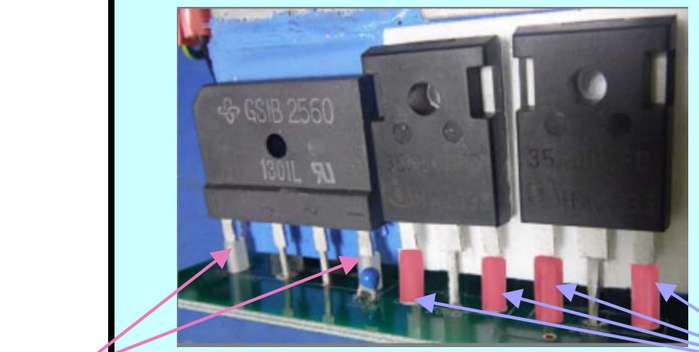
SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

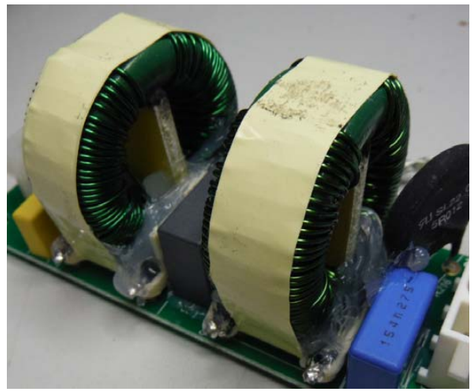
M1524 V01 PS10PCE PRODUCTION NOTES

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

PIC. 1

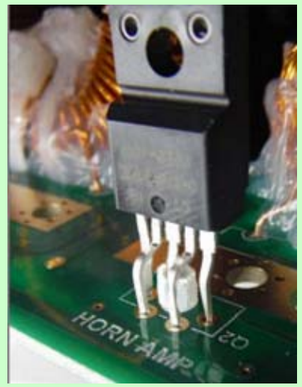


ADD SPACER #9067 TO THE INDICATED LEGS OF D201, Q206 AND Q207

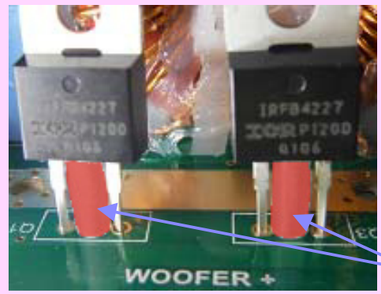


APPLY RTV ALL AROUND THE BASE OF THE COILS L203 AND L205 AS SHOWN

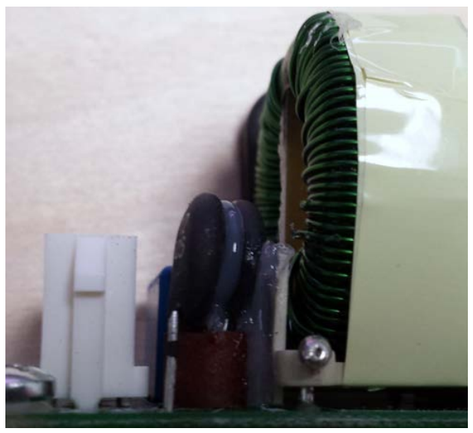
APPLY RTV INSIDE AND ALL AROUND THE COIL



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

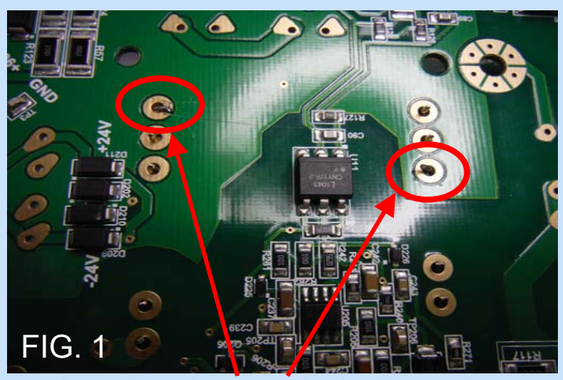


ADD A # 9067 SPACER TO THE MIDDLE LEG OF Q1, Q3, Q6, Q7 D203 AND D220

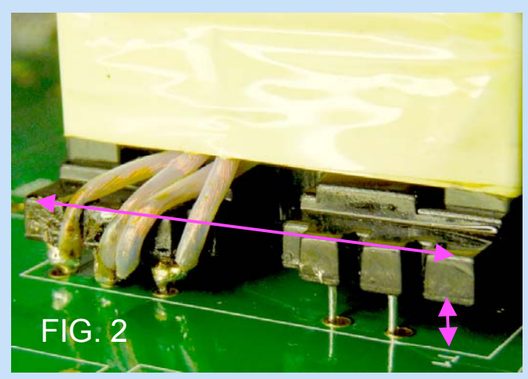


APPLY RTV BETWEEN TWO SURGISTORS AND BETWEEN SURGISTOR AND COIL

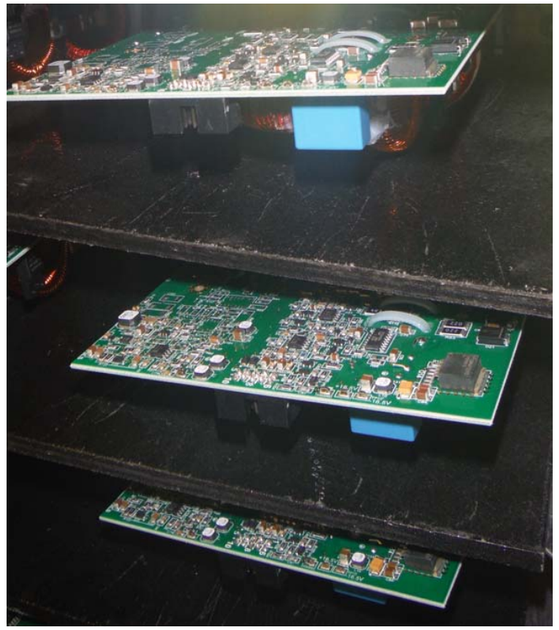
YS#1494 INSULATOR. SEE NOTE 9.



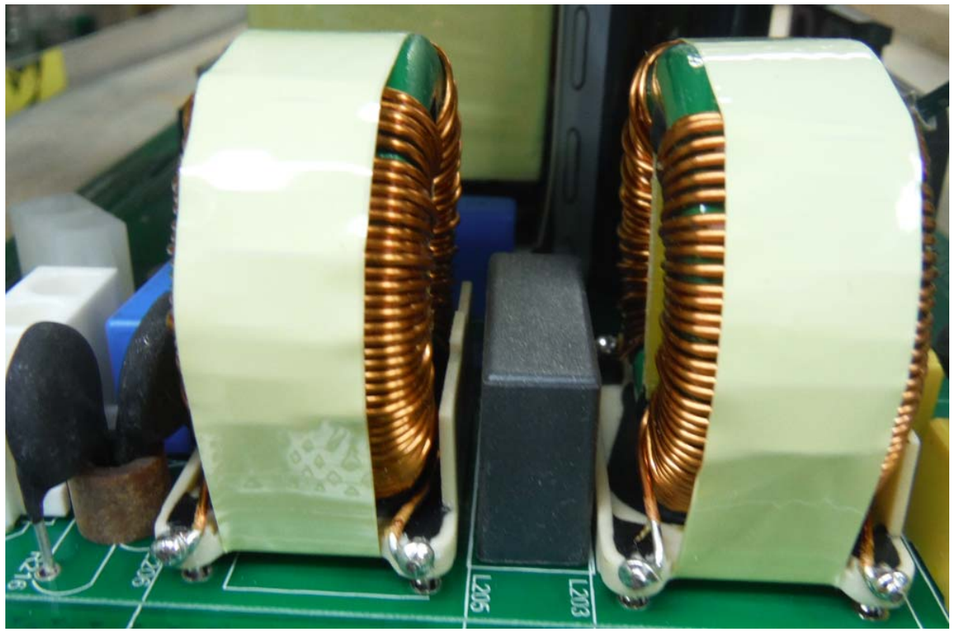
Bend these 2 leads on back of board after inserting T1 (YS# 1226)



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

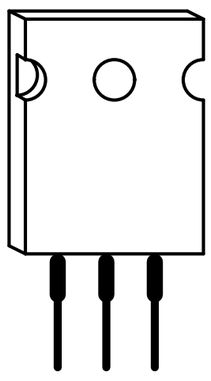


PICTURE FOR NOTE 10.

DESIGN HISTORY AND XSTR PINOUT INFORMATION

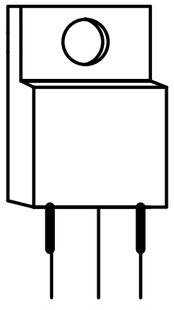
XSTR PIN-OUT

35N60CFD



TO-247AC

IRFB4227



TO-220

M1524.PCB_DATABASE_HISTORY			
MODEL(S):-	M1524		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	14-NOV-2014	V01	First Release
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

J1:2 FUNCTION XLR-PHONE
J1:1 FUNCTION XLR-PHONE 4090 NCJ6FAV-0
4090
D16 SMAJ150CA DO-214ACBI
J2
SG8 SPRKGAP
SG7 SPRKGAP
IGND
CHGND
PSGND
GL1
W5 CON_HOLE_125
R101 543 48R
265V
SH
R1 10K
R2 470R
R3 470R
R4 1M
R5 1M
C1 470P 50V
C2 470P 50V
MIX-
MIX+

C3 100N 50V
R6 10K
D1 4148 D1005
MC33078 7817
U1:1 SO8
R8 1K800
R10 1K02
C5 2N7 100V
U2:1 SO8
D9
CLIP
U2:2 SO8
R20 10K
GND
C8 22U 25V 1210
R12 4K99
AIN_HI_SENS
Vfs = 0.7Vrms = 1.98Vpp
To ADC on ADAU1701
Vfs rms = 0.1mA * (R + 2k)
C7 22U 25V 1210
R14 100K
AIN_LO_SENS
Vfs = 10.2Vrms = 28.8Vpp

D2 4148 D1005
U1:2 SO8
R9 1K800
R11 1K02
C6 2N7 100V
R7 10K
C4 100N 50V

+15V
-15V
U1:3 SO8
C20
C19 100N 50V
U2:3 SO8
C22
C21 100N 50V

C58 15N 50V
R23 1K800
U9:2 MC33079D 7668 SO14
IOUTL-
WOOFER+
W1 PIN 5
AGND
C57 15N 50V
R25 1K800
WOOFER OUTPUT
U9:1 MC33079D 7668 SO14
IOUTL+
WOOFER-
W1 PIN 4
C39 50V 100N
R30 2K0
DGND
C26 1N5 50V
R26 1K800
U9:4 MC33079D 7668 SO14
IOUTR-
HORN-
W1 PIN 5
C56 1N5 50V
HORN OUTPUT
R29 1K800
U9:3 MC33079D 7668 SO14
IOUTR+
HORN
W1 PIN 4

C65 47P 50V
SYNC
R102 2K2
VDDINT TO DSP
+3V3
C35 10N 50V 1206
R103 47R
C72 35V 15U 6032
U6 LM2671 7890 SO8
VIN ON/OFF SS SYNC GND FB CB VSW
L1 120uH 2910
SWS/CR75
D6
C36 10V 100U 3528
LOW VOLTAGE SUPPLY

R68 39R
R69 39R
U9:5 7668 MC33079D SO14
C24 100N 50V
C38 100N 50V

Product	PS Preamp		
ANALOG.SCHDOC	PCB# M1529	Sheet 1 of 4	
Date: 2016-12-07	Rev:1.00	YsType:*	
Filename: ANALOG.SCHDOC			

Yorkville

LINE GAIN

MIC GAIN

Product	PS Preamp		
MIXER.SCHDOC	PCB# M1529	Sheet 2 of 4	
Date: 2016-12-07	Rev:V01	YsType:*	
Filename: MIXER.SCHDOC			

Yorkville

INPUT CONTROLS

MASTER GAIN

U8 ADAU1701 7905 LQFP

U3 8122 PCM1796 SSOP-28

U7 7906 MC9S08GT60 8-BitMicrocontroller 10-Bit ADC QFP44P

MC9S08GT32 MICRO CONTROLLER

U5 7918 LM1117-5v SOT-223

Q5 7894 OSCILLATOR 12.288

Q8 MMBT3906LT1 7805 SOT23

+1V8 SUPPLY

W2_A BDM PORT ON REAR OF PCB

W2 BDM_PORT

CONNECTOR TO AMP BOARD

PROGRAM SELECT:

Product	PS Preamp		
DIGITAL.SCHDOC	PCB# M1529	Sheet 3 of 4	
Date: 2018-05-22	Rev:V01	YsType:*	
Filename: DIGITAL.SCHDOC			

Yorkville

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	02-JUN-2016	V01	.	RELEASED FOR PRODUCTION
2	22-MAY-2018	V01	9211	REPLACE R105 (1K02 - 0805 YS# 7898) WITH YS# 7624 (100R - 0805)
3	18-DEC-2018	.	.	ADDED SERIAL NUMBER LABEL
4	.	.	.	.
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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	Line Level	4459	P32	8653
P2	Mic Level	4459	P32	8653
P3	Master Level	4459	P32	8653
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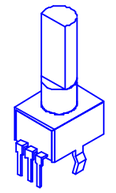


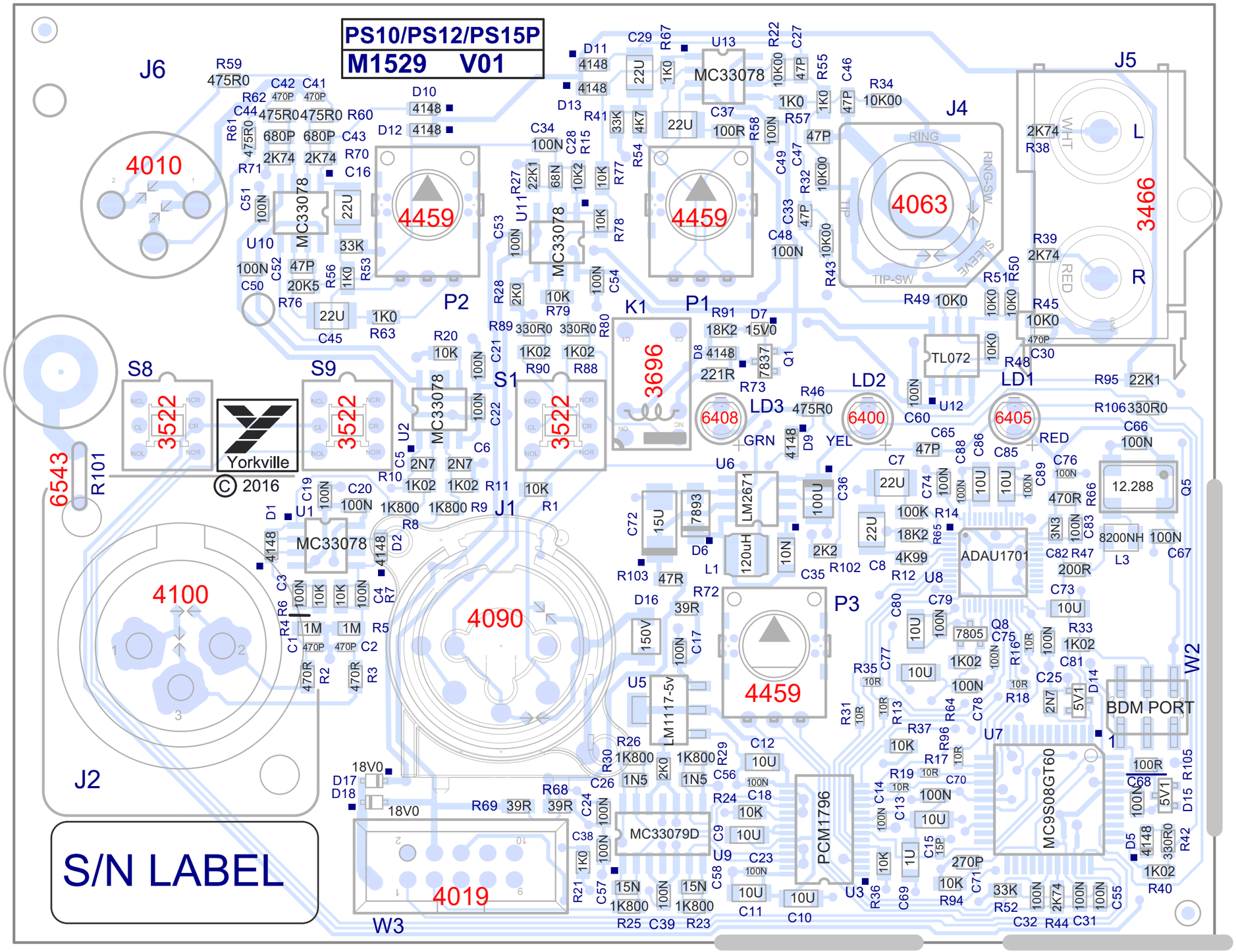
"STYLE_P32"

PINOUT DIAGRAMS

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

Yorkville

Section: Design Information And History				
Product(s): PS10/PS12/PS15P				
PCB#: M1529	Rev#: V01	EML Rev#: 01	Sheet 1	Of *
Modified: 2018-12-18	File: History.SchDoc		Tmp Rev: TemplateRev	



SEE LAYOUT DOCUMENTATION

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. KEEP ALL CONNECTORS FLUSH MOUNTED AND STRAIGHT WITH A JIG DURING WAVE SOLDERING.

2. ADD 0.9" LED SPACER (YS#4007) to LD1, LD2 and LD3.

3. DO NOT STUFF COMPONENTS MARKED WITH DNS. IN THE LAYOUT PADS WITH

4. BEFORE TRANSPORTING TO WIRING PLEASE SEPARATE BOARD FROM PANEL USING PIZZA CUTTER SO SMT COMPONENTS ARE NOT STRESSED.

PCB HARDWARE

Yorkville	Section: Assembly Documentation				
	Product(s): PS10/PS12/PS15P				
	PCB#: M1529	Rev#: V01	EML Rev#: 01	Sheet 1 Of *	
	Modified: 2018-12-18	File: Assembly.SchDoc		Tmp Rev: TemplateRev	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	02-JUN-2016	V01	.	RELEASED FOR PRODUCTION
2	22-MAY-2018	V01	9211	REPLACE R105 (1K02 - 0805 YS# 7898) WITH YS# 7624 (100R - 0805)
3	18-DEC-2018	.	.	ADDED SERIAL NUMBER LABEL
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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	Line Level	4459	P32	8653
P2	Mic Level	4459	P32	8653
P3	Master Level	4459	P32	8653
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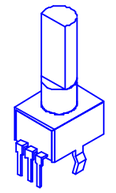


"STYLE_P32"

PINOUT DIAGRAMS

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

Yorkville

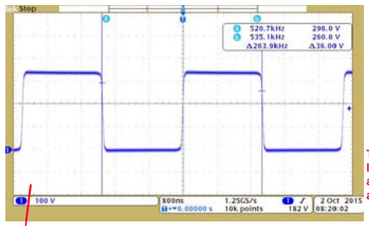
Section: Design Information And History				
Product(s): PS10/PS12/PS15P				
PCB#: M1529	Rev#: V01	EML Rev#: 01	Sheet 1	Of *
Modified: 2018-12-18	File: History.SchDoc		Tmp Rev: TemplateRev	

AU SUPPLY

VBULKPS
D206 MURA240T3 403D
R263 10R 1206
U202 LNK306G 8158 SMD8B
C125 400V 22N RAD POLY
AUXGND
R94 12K1 0603
R93 1K62 0805
C220 100N 50V 0805
D36 ES1H DO-214AC
C72 10U 16V 1206
L219 7974 1000UH
+14V
+15VPS
R158 0R0 0805
C221 1U 50V 1210
R157 3K32 0805
100U 25V
C49 ELE 8mm
ZD201 18V DO-214AC
R277 10R 1206
C244 10U 16V 1206
C236 1U 50V 1206
C204 1U 50V 1206
U205 UCC25600 7987 SO8
VCC RT DT SS GND GD2 GD1 OC
U20 MIC4424 6652 SO8
NC INA INB VS OUTA OUTB GND
C108 4U7 50V 1210
R271 4K99 0805
D62 CDSF4148 D1005
OPTO-COUPLER
U11:2 CNY17F-2S 8121
R272 10K 0619
C243 100N 50V 0805
R242 475R0 0805
R241 1K37 0603
R288 27K4 0805
R159 1K21 0805
MMBT5401 Q5 7837 SOT-23
SS
C90 10U 16V 1206
C237 220N 50V 1206
R240 17K8 0805
C239 10N 50V 0805
D43 5V1 SOT-23
R189 348R0 0805
R282 348R0 0805
R190 1K62 0805
R191 1K62 0805
C84 10P 1000V 1206

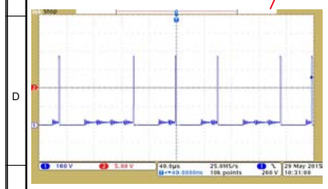
T2 XF3955
D47 SOD323F 30V
D57 SOD323F 30V
C123 4U7 50V 1210
D60 SOT-23 15V0
C114 1N 50V 0805
R52 47R5 0805
R155 1K0 0805
C111 100P 0805
U19 MIC4424 6652 SO8
R194 100K 1206
R195 100K 1206
R5310R 1210
R57 10R 1210
R153 499R 0805
R207 10K00 0805
Q207 SPW35N60CFD 6975 TO247
VBULKPS
HB_OUT

T3 XF3955
D58 SOD323F 30V
D59 SOD323F 30V
C124 4U7 50V 1210
D61 SOT-23 15V0
C116 1N 50V 0805
R74 47R5 0805
R156 1K0 0805
C113 100P 0805
U22 MIC4424 6652 SO8
R192 100K 1206
R193 100K 1206
R149 10R 1210
R150 10R 1210
R154 499R 0805
R211 10K00 0805
Q206 SPW35N60CFD 6975 TO247
X9
BPGNDPS



T e arts enclosed in t e Das ed lines are critical safety com onents and can only be re laced by t e a ro riate YS art number

L204 25UH
ATTENTION
T1 1249
3109
+86.3V
+77V
Hand
D203 MUR1640CTG 400V
D220 MUR1620CTRG 200V
C120 22X35MM 1500U 100V
C121 22X35MM 1500U 100V
C96 1812 2U2
C97 1812 2U2
GND
-77V
-86.3V
BPGNDPS
C51 Axial 2000V 47N



AC BLK
W201:1
W201:2
W201:3
AC WHT
R284 47K 2512
R285 47K 2512
C233 275V 1u0 RAD 'X2'
L9 3.3mH 6507
C209 250V 1N
C213 250V 1N
IGNDPS
C231 1u0 275V RAD 'X2'
L10 3.3mH 6507
U6:1 4PIN OPTO-COUPLER 8107 FOD814
R31 10K0 0805
R177 100K 1206
R176 100K 1206
C230 250V 1N MF 10MM
C214 250V 1N MF 10MM
C232 250V 150N 'X2' 15MM
R216 NTC 10R 6622
K1:1 RELAY 1C 3105
D201 6772 BRIDGE SIP 400V
TP9
VBULKPS
+340V
C216 25X40MM 1200U 200V
C215 25X40MM 1200U 200V
R292 100K 1206
R293 100K 1206
R265 100K 1206
R266 100K 1206
C32 400V 22N RAD POLY
C210 400V 680N RAD POLY
R118 2R0 2512
TP11
BPGNDPS

ATTENTION

10 AMP
YS#2491
Thermal Breaker
S1
3575
PLUG A
DPDT Switch
S3
YS#4184
AC BLK
AC WHT
IEC_RECT
YS#4088
CHASSIS GND

SS
R152 100R 0805
TP12
+15VPS
U6:2 4PIN OPTO-COUPLER 8107 FOD814
R205 1K0 0805
R202 100K0 0805
R210 68K 0805
D46 5V1 SOT-23
U25:2 7661 LM393D SO8
R201 40K2 0805
CDSF4148
D50
K1:2 RELAY 1C 3105
R204 10K0 0805
R208 47R5 0805
MMBT4401 Q35 7665 SOT-23
C93 1U 50V 1206
C92 22U 16V Elec
R209 20K5 0805
R203 182K 0805
R206 20K5 0805
7661 LM393D U25:1
R212 40K2 0805
Q8 MMBT4401 SOT-23 7665
U25:3 LM393D 7661 SO8
C144 1U 150V 1206
X12
AUXGND

X2 AUXGND BPGNDPS
X7 AUXGND BPGNDPS

+77V
WOOFER DC PROTECT
Q10:2 4PIN OPTO-COUPLER FOD814 8107
R121 47K5 0805
R123 47K5 0805
R130 47K5 0805
R129 2K32 0805
R127 1K0 0805
CNY17F-2S OPTO-COUPLER U11:1 8121
R126 2K32 0805
R128 1K0 0805
C89 50V 150P 0805
C83 100N 100V 1206
R138 1K0 0805
Q4 TL431A 7720 SOT23 2V5
D37 10V0 DO-214AC
R26 68R1 0805
-77V
R124 10K 0805
R125 10K 0805
TP10
R217 10K 0805
R283 10K 0805
GND
R248 681R 0805
D54 SOD-323 200V
C141 1812 2U2
R249 1M0 0805
R250 150K0 0805
NOAC

Yorkville

Product	PS10P SWITCHING PS		
POWER SUPPLY SCHDOC	PCB# M1522	S eet 1 of 6	
Date 2019 02 26	Re V03	YsTy e YsTy e	
Filename POWER SUPPLY SCHDOC			

WOOFER

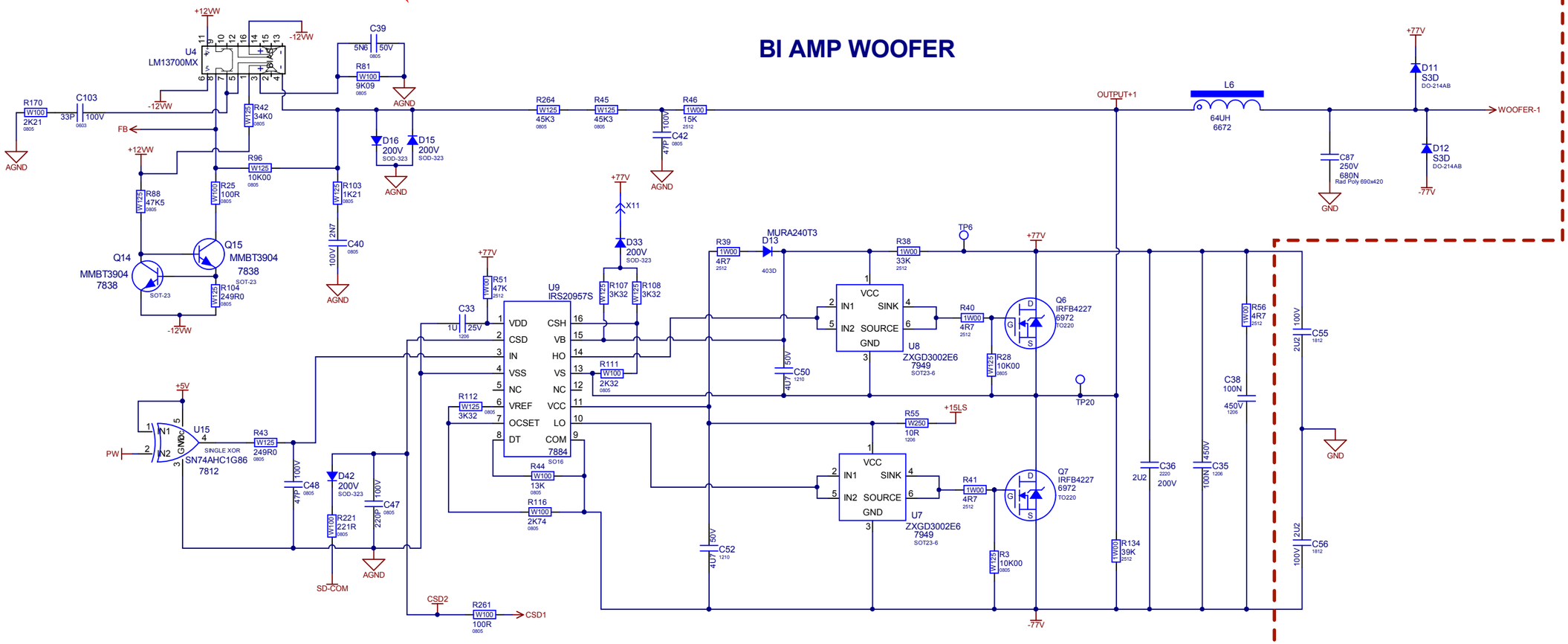
STUFF R6 AND R89
FOR MONO MODE

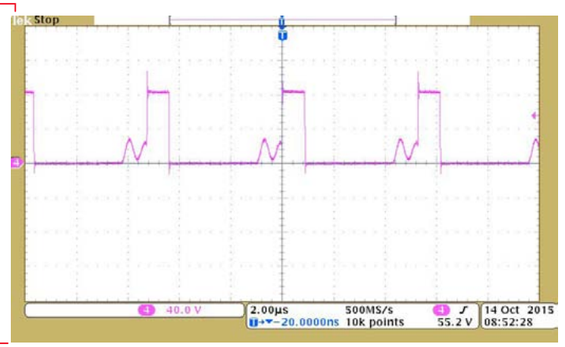
FROM SWITCHING
REGULATOR SUPPLY

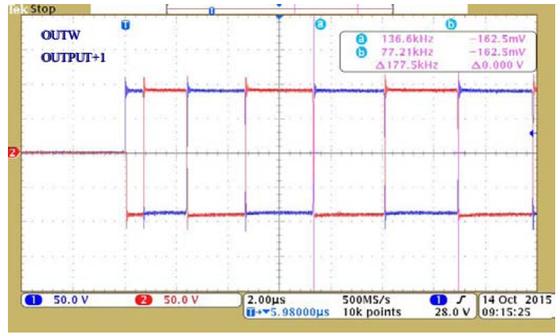
Yorkville	Product	PS 10P WOOFER AMP	
	S eet1 SCHDOC	PCB# M1522	S eet 2 of 6
	Date 2018 12 19	Re V03	YsTy e YsTy e
	Filename S eet1 SCHDOC		

FOR PS10P ALL COMPONENTS ENCLOSED ARE DNS

BI AMP WOOFER







Yorkville	Product	PS 10P BIAMP WOOFER	
	S eeT2 SCHDOC	PCB# M1522	S eet 3 of 6
	Date 2018 12 19	Re V03	YsTy e YsTy e
	Filename S eeT2 SCHDOC		

PS10P HORN AMP

Product	PS10P HORN AMP		
S eeT3 SCHDOC		PCB# M1522	S eet 4 of 6
Date 2018 07 16		Re V03	YsTy e YsTy e
Filename S eeT3 SCHDOC			

Yorkville

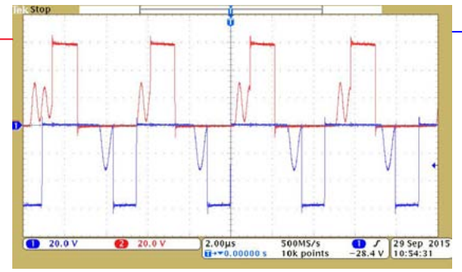
HORN

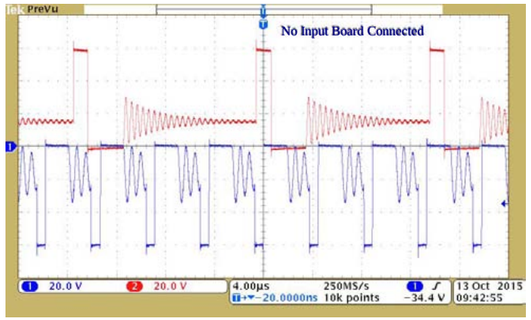
SIGNAL

UVP

RIGHT ANGLE

CONNECTOR TO INPUT BOARD
VIEW FROM FRONT

+86.3V
+77V
R162 10R 1206
R92 4K7 1206
Q30 DPAK3 7844
MJD243T4G
C153 4U7 1210 50V
D26 DO214AA 371B 60V 8185
C127 1206 100N 100V
C104 1812 2U2 100V
C105 1206 470N 100V
+59V..+61V
+59V
TP14
U21
VCC
BST
VIN
LM5008A 6666
SW
RT_SD
WSON
RCL
RTN
FB
R145 562K 0805
R146 68K 0805
C110 10N 0805 50V
TP23
L7 8108 120UH
R151 W100 100K0 0805
C106 25V 3N3 0805
C107 10N 0805 50V
D48 SOD-323 100V
?
R148 5K36 0805
R147 1K0 0805
C115 1206 4U7 50V
C109 1210 4U7 50V
D52 200V SOD-323
+16V
+16GND
X13
GND
DSPGND
GND


Q12 8165 SOT-23 MMBTA92
R167 W100 20K5 0805
R168 W100 100R 0805
C112 1210 4U7 50V
-16V
GND
D39 MURA240T3 403D
L12 7732 220UH
R169 W125 3K32 0805
C130 0805 50V 270P
C129 0805 25V 3N3
R165 W100 15K0 0805
R161 W100 10K 2812
GND
GND
D31 DO214AA 371B 60V 8185
R90 W100 15K0 0805
R166 W125 1K62 0805
U23 LM5020 6651 VSSOP10
VIN FB COMP VCC OUT
SS RT/SYNC CS UVLO GND
C133 1206 470N 100V
D45 SOD-323 12V0
R91 W125 10R0 0805
Q11 FDT3612 6977 SOT233
C82 1812 2U2 100V
C154 1210 4U7 50V
R163 W100 100R 0805
R164 W250 1R0 1206
C131 0805 50V 10N
R135 W125 3K32 0805
R171 W125 14K 0805
C128 0805 50V 1N
TP15
-59V
-59V..-61V
Q31 MJD253T4G DPAK3 7845
R139 W250 4K7 1206
R172 W250 10R 1206
-77V
-86.3V
+16V
TP16
+16.4V
R131 W125 91K 0805
R140 W100 4R7 0805
Q24 MMBTA14LTIG 7701 SOT-23
Q29 MMBTA14LTIG 7701 SOT-23
R188 W125 10R0 0805
R187 W125 10R0 0805
C31 1206 1U 25V
+12.3V
+15V
TP17
Q25 7665 SOT-23 MMBT4401
D19 SOD-323 12V0
R142 W125 348R0 0805
C148 1206 1U 25V
R143 W125 348R0 0805
DSPGND
Q26 7837 SOT-23 MMBT5401
D23 SOD-323 12V0
C80 1206 1U 25V
C151 1206 1U 25V
TP18
-15V
-12.5V
Q27 TA64 8022 SOT-23
R183 W125 91K 0805
R186 W125 10R0 0805
TP19
-16V
-16.3V
+16V
R178 W125 91K 0805
R179 W125 10R0 0805
Q20 MMBTA14LTIG 7701 SOT-23
+12.6V
+12VH
C63 1206 1U 25V
Q21 MMBT4401 7665 SOT-23
D14 SOD-323 12V0
C150 1206 1U 25V
R181 W125 348R0 0805
AGND2
R174 W125 348R0 0805
SOT-23
Q22 7837 MMBT5401
D17 SOD-323 12V0
C147 1206 1U 25V
C69 1206 1U 25V
-12VH
-12.6V
Q23 TA64 8022 SOT-23
R184 W125 91K 0805
R185 W125 10R0 0805
-16V
+16V
R76 W125 91K 0805
R173 W125 10R0 0805
Q16 MMBTA14LTIG 7701 SOT-23
+12.3V
C45 1206 1U 25V
R141 W125 10R0 0805
+12VW
Q18 MMBT4401 7665 SOT-23
D8 SOD-323 12V0
C152 1206 1U 25V
R105 W125 348R0 0805
AGND
R137 W125 348R0 0805
SOT-23
Q17 7837 MMBT5401
D10 SOD-323 12V0
C149 1206 1U 25V
C58 1206 1U 25V
R180 W125 10R0 0805
-12VW
-12.4V
Q19 TA64 8022 SOT-23
R175 W125 91K 0805
R182 W125 10R0 0805
-16V


Yorkville	Section: LV P r Su ly				
	Product(s): PS10P				
	PCB#: M1522	Rev#: V03	EML Rev#: XX	Sheet 5 Of 6	
	Modified: 2019-02-26	File: LV-PS.SchDoc		Tmp Rev:	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	19-JUN-2017	V01		RELEASED FOR PRODUCTION
2	13-JUL-2018	V02	9124	Moved R46 to top. Elongated pads on coils (L3,L5,L6, L204)
3		.	9140	Added current sharing vias and traces to all large coils and transistors
4		.	9214	Enlarged holes in pads 1,3, and 5 on Q2 for better hole fill in wave soldering
5		.	.	Change 1 HC4 screw hole size (128 mil) to same size as all other mtg holes in board.
6	19-DEC-2018	V03	9286	Move coil L7 and D37 away from each other to avoid shorting the leads
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS AND KNOBS			
REF	FUNCTION	POT#	KNOB#
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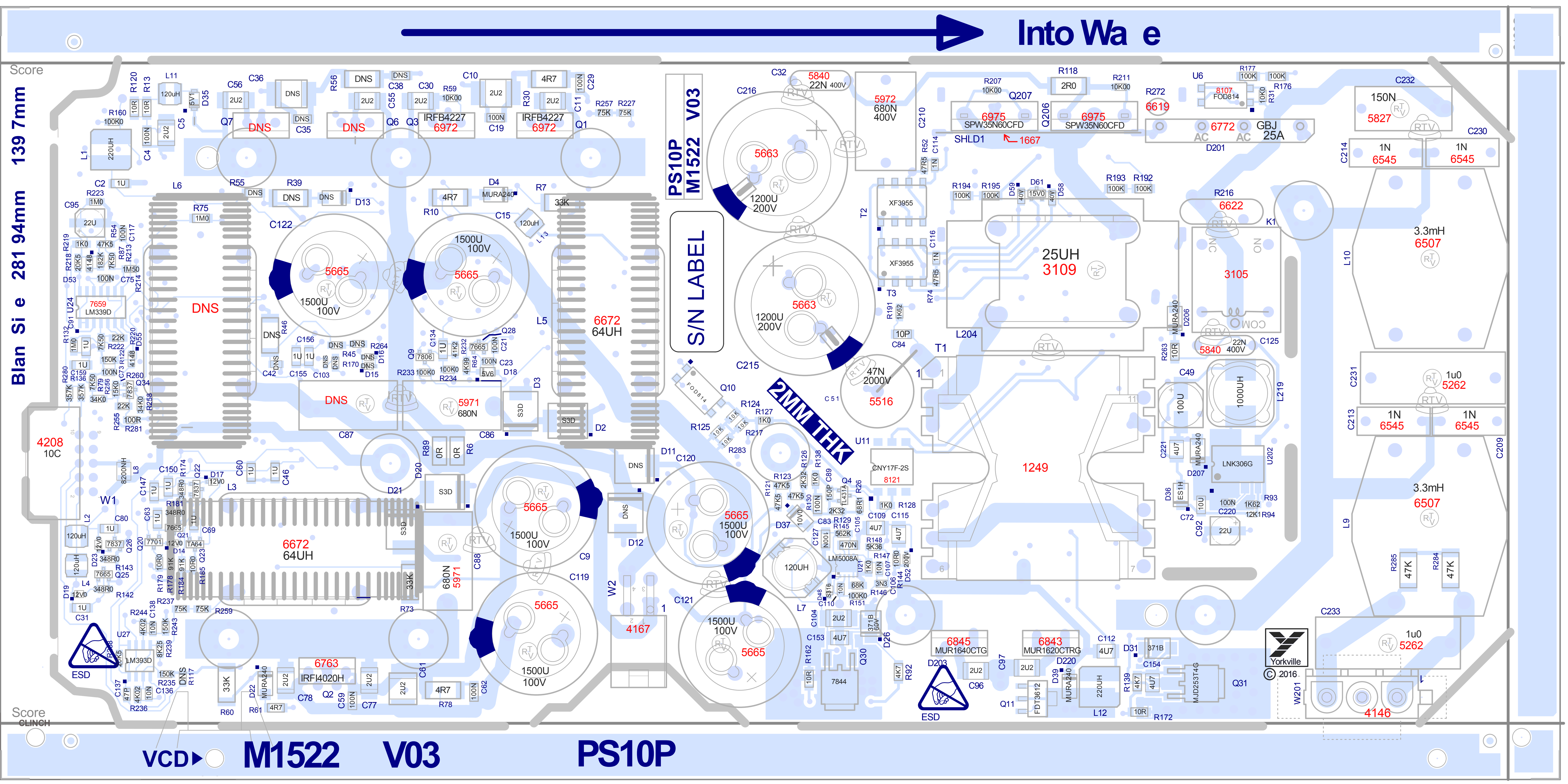
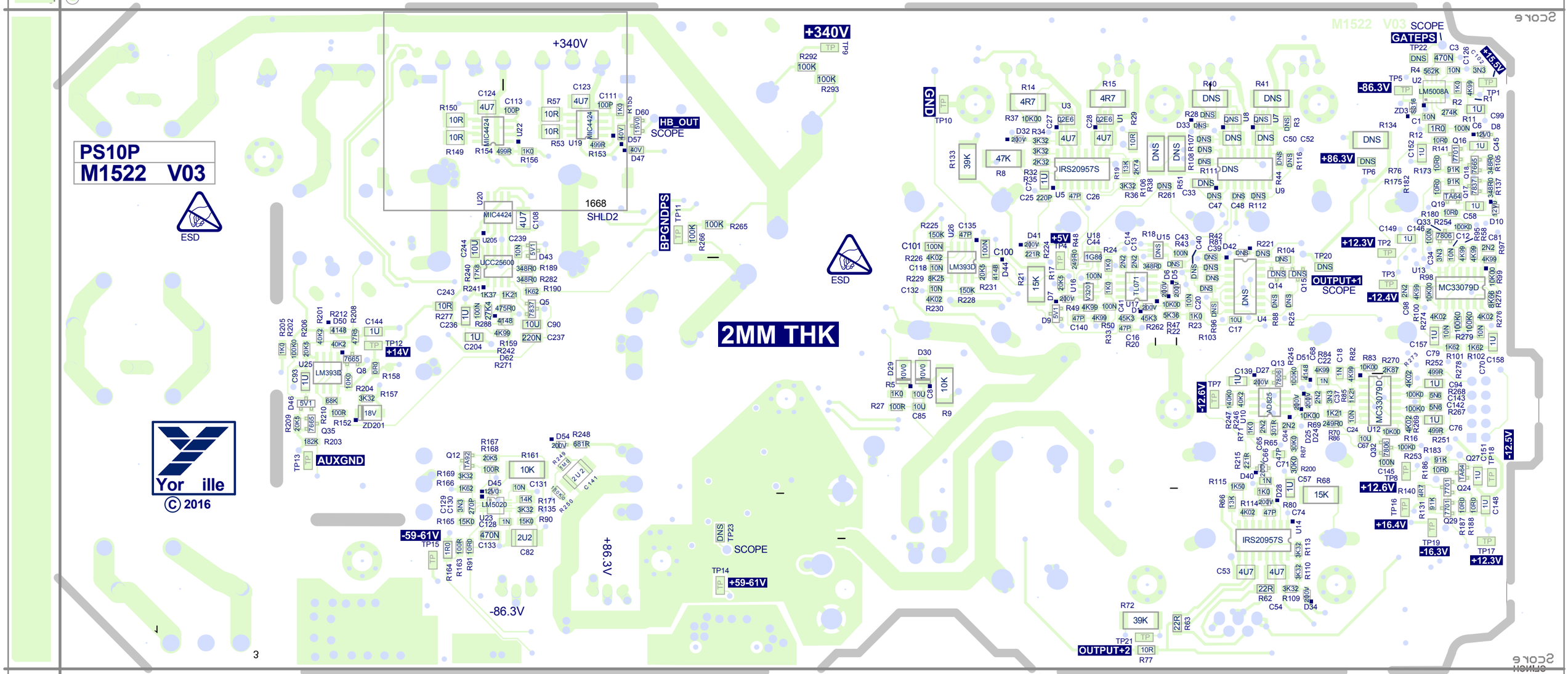
PINOUT DIAGRAMS

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

Yorkville

Section:	Design Information And History				
Product(s):	PS10P				
PCB#:	M1522	Rev#:	V03	EML Rev#:	XX
Modified:	2019-02-26	File:	History.SchDoc	Tmp Rev:	

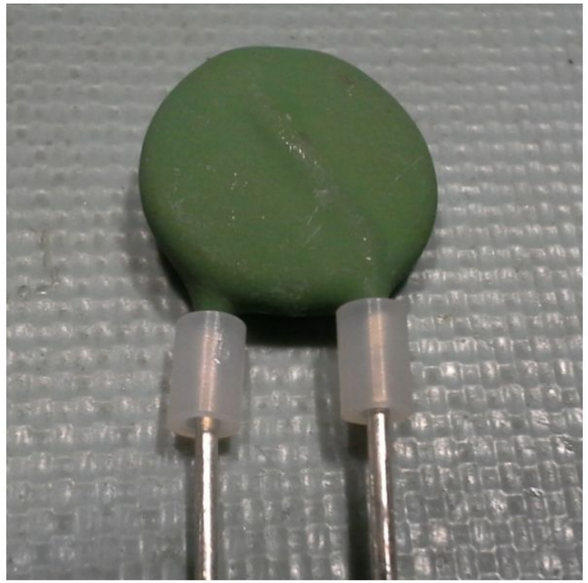

Into Wa e
Score
139 7mm
281 94mm
Blan Si e
S/N LABEL
PS10P M1522 V03
2MM THK
ESD
Yorkville
© 2016
Score
CLINCH
VCD
M1522
V03
PS10P



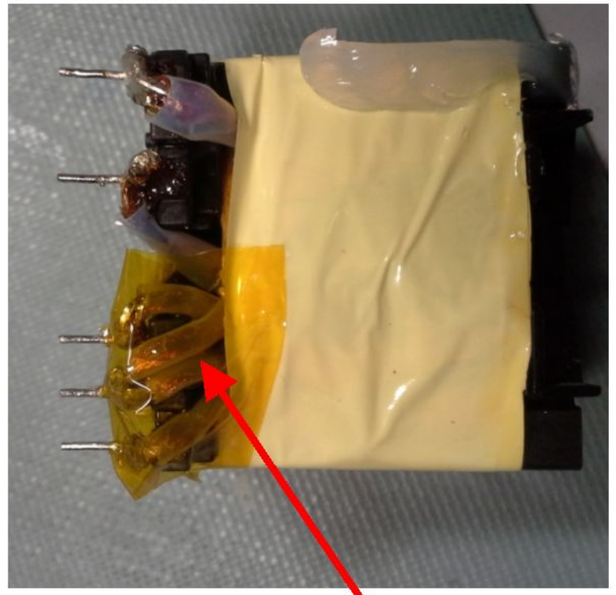
M1522 V03 PS10P
BOTTOM VIEW

PCB PRE ASSEMBLY DOCUMENTATION

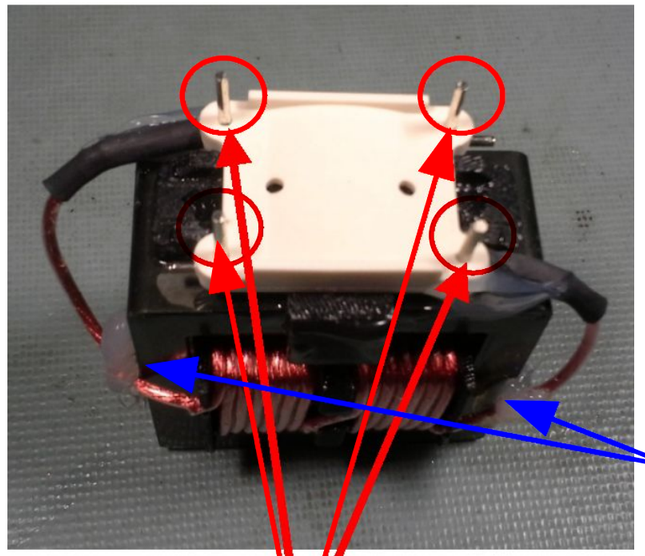
USE THESE NOTES TO ASSEMBLE OR PREPARE PARTS
BEFORE INSERTING INTO PCB AND ALSO PRIOR TO WAVE



FOR YS PN 6622 USE NYLON SPACER PN 8607

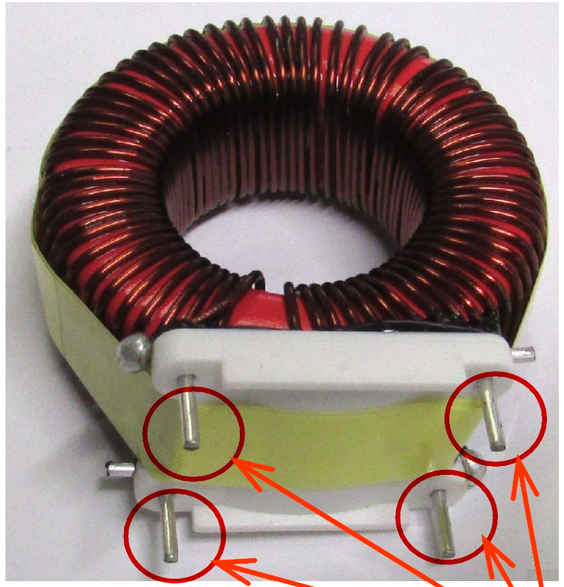


APPLY 1" WIDE KAPTON TAPE OVER PIN AND LEADS ON T1



APPLY A SMALL AMOUNT OF RTV WHERE LEADS TOUCH THE CORNERS OF THE COIL. DO NOT APPLY RTV TO BASE OF COIL BEFORE INSERTION INTO BOARD.

DIP LEADS OF COIL (L204 YS#3109) IN FLUX THEN IN SOLDER BEFORE PLACEMENT IN PCB



DIP LEADS OF ALL COILS (L3, L5, L6 YS#6672) IN FLUX THEN IN SOLDER BEFORE PLACEMENT IN PCB

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

Yorkville	Section: Assembly Documentation					
	Product(s): PS10P					
	PCB#: M1522	Rev#: V03	EML Rev#: XX	Sheet 7 Of 8		
	Modified: 2019-09-30	File: Pre-Assembly.SchDoc		Tmp Rev:		

PCB ASSEMBLY DOCUMENTATION

SPECIAL 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. ADD APPROPRIATE SPACERS TO LEGS OF XTRS AND RECTIFIERS AS INDICATD IN PICS 1-3.
   SEE ALSO PRE-ASSEMBLY NOTES

4. CUT LEADS SHORT ON ALL HAND PLACED TRANSISTORS AND R272. KEEP LEADS AS STRAIGHT AS POSSIBLE BEFORE CUTTING. SEE PIC 4.A AND 4.B

5. NOTE THAT THIS BOARD USES A WAVE SHIELD THAT REQUIRES THE SOLDER WAVE BE SET TO THE PROPER HEIGHT AND SPEED.

6. AFTER WAVE SOLDER. PLACE SHLD2 (YS#1668) ON BOTTOM OF BOARD AND HAND SOLDER.

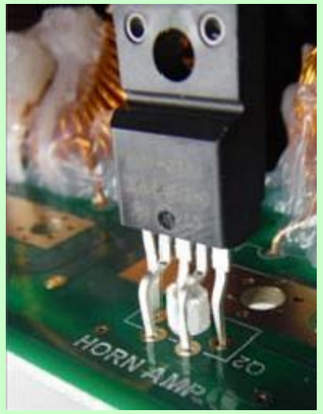
7. APPLY RTV WHERE INDICATED AND BETWEEN TALL COMPONENTS AND IN THE HOLES PROVIDED. NOTE THAT L204 MUST NOT HAVE RTV APPLIED UNDER PART UNTIL AFTER THE WAVE SOLDERING PROCESS AND IN THE HOLE ON THE BOTTOM OF THE BOARD LOCATED NEAR U20.

8. AFTER WAVE AND PCB FINISHING, PLEASE PLACE BOARD ON RACK WITH LARGE COMPONENTS FACING DOWN. SEE PICTURE

9. BEFORE TRANSPORTING TO WIRING PLEASE SEPARATE BOARD FROM PANEL USING PIZZA CUTTER
   THEN BREAKING NON SCORED END GENTLY WITH APPROPRIATE TOOL

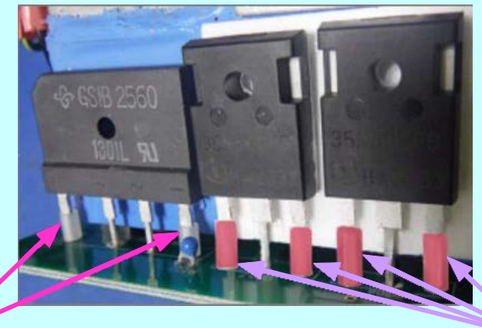
BOARDS PLACED UPSIDE DOWN ON RACK AFTER WAVE SOLDERING

PIC 2

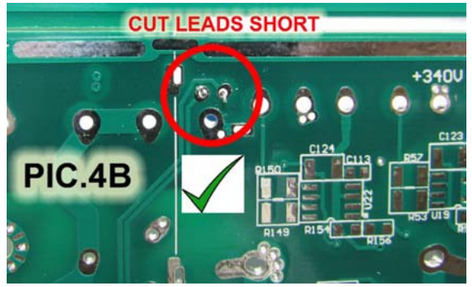


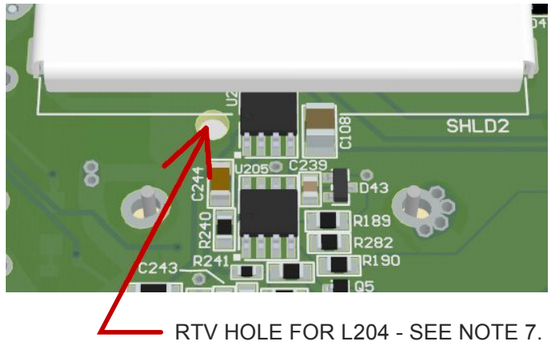
ADD 1 SPACER YS# 8607 TO MIDDLE REAR LEG OF Q2 AS SHOWN

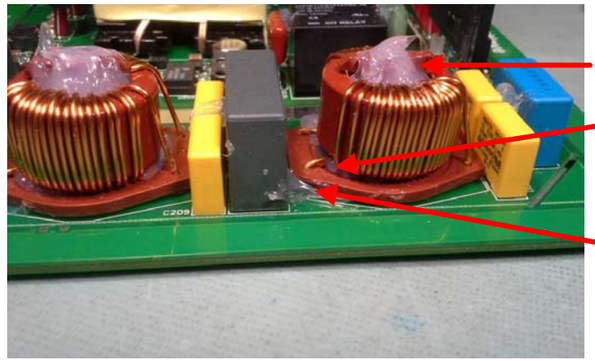
PIC 1

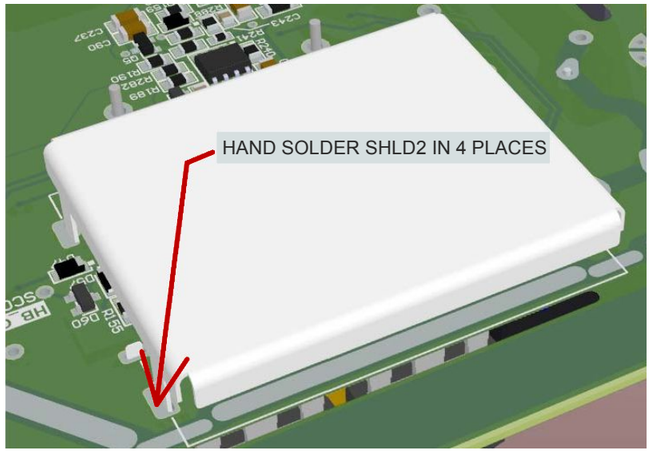


ADD NUMBERS OF SPACERS YS# 8607 AND 9067 INDICATED TO LEGS SHOWN FOR D201, Q206 AND Q207

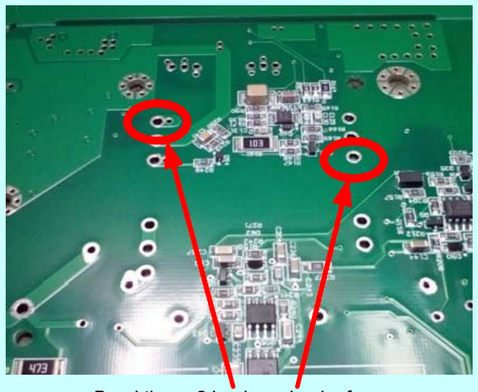




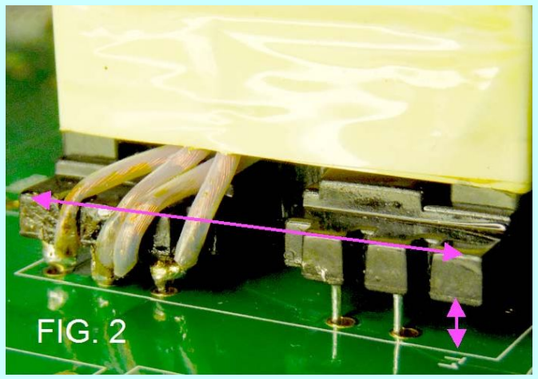




AFTER WAVE SOLDERING, SOLDER SHLD 2 TO BOTTOM OF PCB WHERE SHOWN

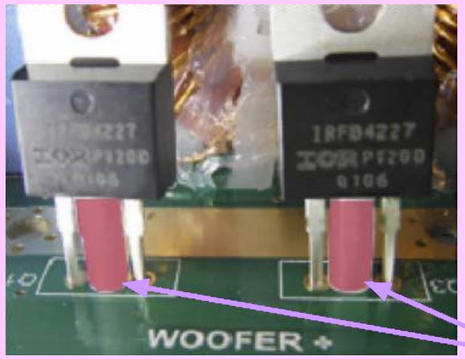


Bend these 2 leads on back of board after inserting T1 (YS# 1226)



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

PIC 3



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

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

Yorkville	Section: Assembly Documentation				
	Product(s): PS10P				
	PCB#: M1522	Rev#: V03	EML Rev#: XX	Sheet 7 Of 8	
	Modified: 2019-09-30	File: Assembly.SchDoc		Tmp Rev:	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	19-JUN-2017	V01		RELEASED FOR PRODUCTION
2	13-JUL-2018	V02	9124	Moved R46 to top. Elongated pads on coils (L3,L5,L6, L204)
3		.	9140	Added current sharing vias and traces to all large coils and transistors
4		.	9214	Enlarged holes in pads 1,3, and 5 on Q2 for better hole fill in wave soldering
5		.	.	Change 1 HC4 screw hole size (128 mil) to same size as all other mtg holes in board.
6	19-DEC-2018	V03	9286	Move coil L7 and D37 away from each other to avoid shorting the leads
7	.	.	.	.
8	.	.	.	.
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS AND KNOBS			
REF	FUNCTION	POT#	KNOB#
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PINOUT DIAGRAMS

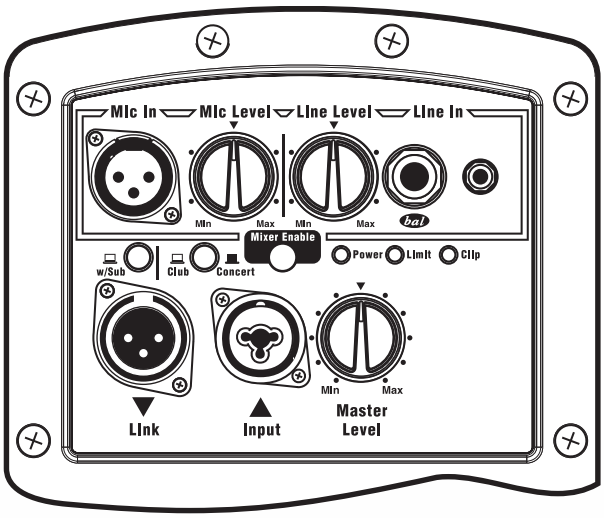
THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section: Design Information And History				
Product(s): PS10P				
PCB#: M1522	Rev#: V03	EML Rev#: XX	Sheet 6 Of 6	
Modified: 2019-09-30	File: History.SchDoc		Tmp Rev:	

PARASOURCE SERIES

∘ PS10P ∘ PS12P ∘ PS15P ∘



Mic In - Any dynamic microphone can be connected to the Mic input but condenser microphones will require an external power supply.

Mic Level Control - Controls the volume level of the Mic input, output to other cabinets through the link will also be affected.

Line In - These inputs allow line level sources such as portable music players and keyboards to be connected. These RCA (REV1) or 1/8-inch TRS (REV2) inputs are summed to allow the blending of stereo sources into mono. The ¼-inch input is balanced to help reject hum (when used with balanced cables). This input helps with lower-level Line inputs (as opposed to the Link jacks).

Line Level Control - Adjusts the volume level of devices plugged into the ¼-inch and Line inputs, output to other cabinets will also be affected. A line-level signal and microphone connected simultaneously will be summed allowing both to work together.

Mixer Defeat - This switch disables the on board mixer. For best noise performance when the Parasource enclosure's mixer is not being use, set the switch to defeat.

**Note: Parasource enclosures are designed to connect together via the Link Inputs and Link Outputs. A maximum of 3 of the built-in mixers can be used (enabled) when linked allowing up to 3 microphones and 3 line sources.*

Sub In / Out Mode - When using a subwoofer the Sub In/Out LF rolloff switch disables the low frequency boost and filters out signals below 100 Hz. This only affects the signals to the internal amplifier; it does not affect signals going out from the built-in mixer or through the Link connections.

Club / Concert Mode - This switch allows the Parasource enclosure to be configured for the venue or type of source content. The Club mode enhances bass frequencies before the onset of limiting. The Concert mode forgoes the bass boost and relaxes the horn peak limiter by 4dB allowing for a longer throw from the cabinet.

Link XLR and Input Combi Connector - The Link jacks are in parallel allowing multiple Parasource enclosures (or other powered cabinets like powered subwoofers) to be connected together. The Link jacks are the preferred input to use when driving a Parasource enclosure from an external mixer.

Note: The Link jacks are balanced inputs with very good hum rejection, to ensure maximum hum rejection use balanced cables. Link inputs may also be used as outputs as link outputs may also be used as inputs.

Level Control - Adjusts the volume of the Parasource enclosure and allows each cabinet linked in a chain to be individually adjusted. This control does not adjust the output level of the Link jacks.

Power LED - The green LED illuminates when the AC power is on and the unit is ready.

Limit LED - This yellow LED indicates that the limiter(s) are actively managing the signal level and the unit is operating at full power. It's okay to operate while limiting as long as the red Clip LED is not constantly on. The Limit LED does not indicate low frequency processing action.

Clip LED - The red LED indicates that the signal level is excessive and may cause distortion. Reduce mixer levels or turn down the level of your source to reduce clipping.

Power - The power switch turns the power On and Off for the enclosure.

Circuit Breaker - Even in extreme operating conditions, the circuit breaker should not blow, A tripped breaker will generally mean there's a serious fault; if the circuit breaker trips repeatedly, bring the unit to a qualified Yorkville technician to have your cabinet serviced.

To get the full Owner's Manual please visit our website at
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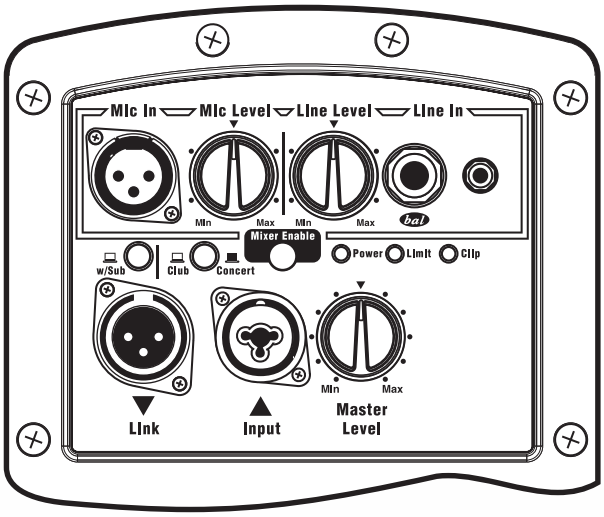
PARASOURCE SERIES

∘ PS10P ∘ PS12P ∘ PS15P ∘



Prise Mic In - N'importe quel microphone dynamique peut être connecté à l'entrée micro. Les microphones à condensateur devront être raccordés à une alimentation externe.

Commande Mic Level - La commande Mic Level ajuste le niveau de volume de l'entrée microphone. La sortie de signal microphone, acheminée à d'autres cabinets par l'entremise des connexions link, sera aussi affectés..

Prise Line In - Les entrées ligne permettent le raccordement de source de niveau ligne tel que les lecteurs de musique portable et les claviers. Ces entrées RCA (REV1) ou 1/8-pouce TRS (REV2) sont additionnées pour permettre le mélange de sources stéréo en mono. L'entrée 1⁄4 de pouce est aussi équilibrée pour aider à rejeter le bourdonnement (avec les câbles symétriques). Cette entrée peut être utilisé pour permettre l'opération à partir de niveau d'entrée ligne réduit (au lieu d'utiliser une prise Link).

Commande Line Level - La commande Line Level ajuste le niveau du volume des appareils branchés aux prises 1⁄4 de pouce et Ligne. La sortie de signal de ces appareils, via les connexions link, acheminée vers d'autres enceintes sera aussi affectée. Les signaux, de niveau ligne et microphone, connectées simultanément seront additionnées électroniquement permettant aux deux de fonctionner ensemble.

Sélecteur Mixer Defeat - Ce sélecteur désengage le mixeur intégré. Pour obtenir une meilleure performance en ce qui a trait au bruit lorsque le mixeur intégré pas utiliser, régler le sélecteur à la position defeat.

**Note: Les enceintes Parasource ont été conçus pour permettre le raccordement de multiples enceintes via les entrées et sorties Link. Lorsque vous raccorder ensemble plusieurs enceintes Parasource, un maximum de trois mixeurs intégrés peuvent être utilisés (engagé) permettant le mélange de jusqu'à 3 microphones et trois sources ligne.*

Mode Sub In/Out - Lors de l'utilisation avec subwoofer, le sélecteur de pente de diminution des fréquences graves Sub In/Out désactive l'amplification des basses fréquences et coupe les fréquences inférieures à 100 Hz. Ce sélecteur affectent seulement les signaux de l'amplificateur interne et n'affecte pas les signaux sortant du mixeur interne ou les signaux passant par les connexions link.

Mode Club/Concert - Le sélecteur de mode Club/Concert permet à l'enceinte Parasource d'être configuré pour le site et/ou le type de contenu. Le mode Club rehausse les fréquences graves avant l'activation du limiteur. Le mode Concert élimine complètement le rehaussement des graves et détend le limiteur de pointe du pavillon de 4dB, permettant une meilleure projection de l'enceinte.

Connecteur d'Entrée Combi et XLR Link - Les prises link sont en parallèle. Cela permet de raccorder entre elles plusieurs enceinte Parasource (ou toute autre enceinte amplifiée, comme des subwoofers). Utilisez les prises Link lorsque le signal acheminé à l'enceinte Parasource provient d'un mixeur externe.

Note: Les prises Link sont des entrées symétriques de haute qualité avec une très bonne réjection de mode (hum) commun. Pour obtenir de meilleurs résultats, utilisez des câbles symétriques. Les entrées Link peuvent également servir de sorties et les sorties Link peuvent être utilisées comme entrées.

Commande Level - La commande Level ajuste le volume des enceintes Parasource et permet le réglage individuel de chaque enceinte liée dans la chaîne. Cette commande n'ajuste pas le niveau des prises Link.

DEL d'Alimentation - La DEL d'alimentation verte s'allume lorsque l'appareil est allumé et prêt.

DEL Limit - Cette DEL jaune indique que le(s) limiteur(s) gèrent activement le niveau du signal et l'appareil fonctionne à pleine puissance. Il convient d'utiliser le système alors que le limiteur est activé tant que la DEL rouge n'est pas constamment illuminée. Cette DEL Limit n'indique pas l'activité de traitement des fréquences graves.

DEL Clip - La DEL rouge CLIP s'illumine pour indiquer un niveau de signal excessif qui pourrait causer la distorsion. Réduisez les niveaux du mixeur ou de la source audio pour réduire l'écrêtage.

Interrupteur d'Alimentation - L'interrupteur d'alimentation allume ou éteint l'appareil.

Disjoncteur - Le disjoncteur ne devrait jamais déclencher, même dans des conditions de fonctionnement extrêmes. Un disjoncteur déclenché indique généralement une faute grave avec l'appareil. Si le disjoncteur se déclenche à plusieurs reprises, apporter l'appareil à un technicien qualifé de Yorkville pour inspection et service.

Pour obtenir le manuel de utilisateur visitez notre site Web à **http://www.yorkville.com/manuals/** ou, si vous avez besoin d'une version imprimée appelez-nous au **905-837-8777**

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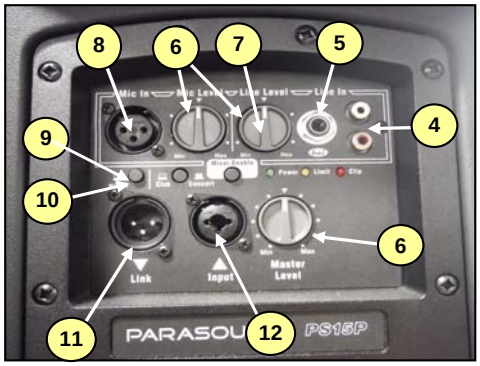
L1W-3Y8 CANADA

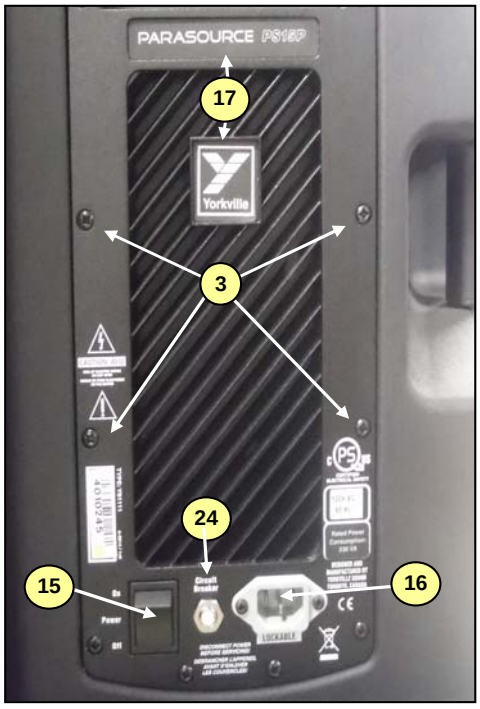
Yorkville Sound Inc.
4625 Witmer Industrial Estate
Niagara Falls, New York
14305 USA

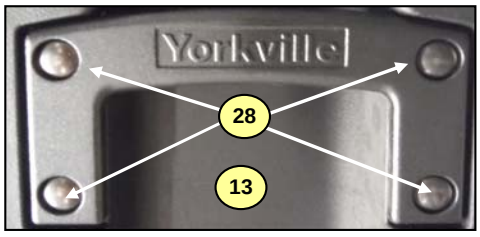
PS10P•PS12P•PS15P
Paraline Powered Speaker Enclosure

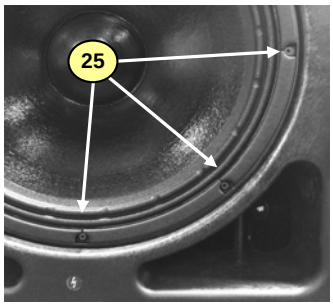
#	Part#	Description	qty
Labeled Components			
1	Z9914	PSAMP CAST CHASSIS	1
2	3074	POWER CORD 3M V-LOCK (N.A)	1
3	9417SS	#8 X 3/4 SS PAN QUAD PLASTITE BO&W	14
4	3466	RCA DUAL PCB MT VERT GOLD 24MM	1
5	4063	1/4IN ISO JCK PCMT VT STER RT SWT	1
6	4459	_10K B LIN 9MM DET HI TORQ P32	2
7	8653	LOW PROFILE POINTER 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

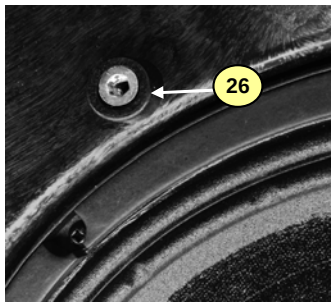
1 CAST CHASSIS

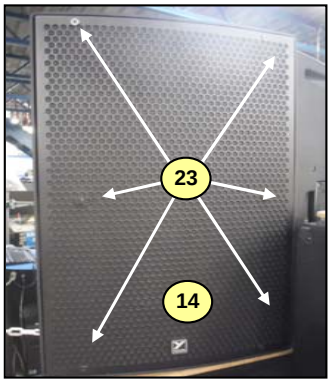




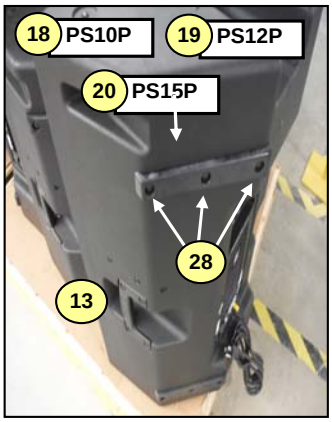








27 Speaker Stand Adapter Not Shown



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