Yorkville

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WORLD HEADQUARTERS

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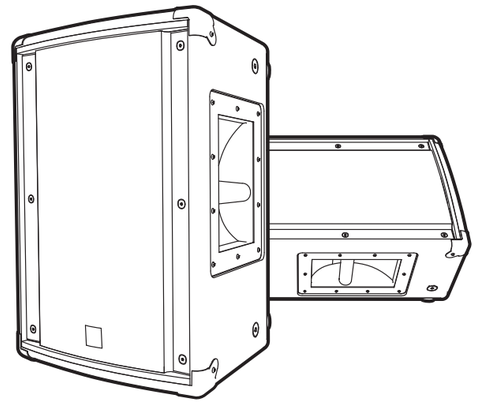
Quality and Innovation Since 1963

Printed in Canada

Yorkville

SERVICE MANUAL

E10P



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-e10p-00-1v9 ĚOct 26/2020

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

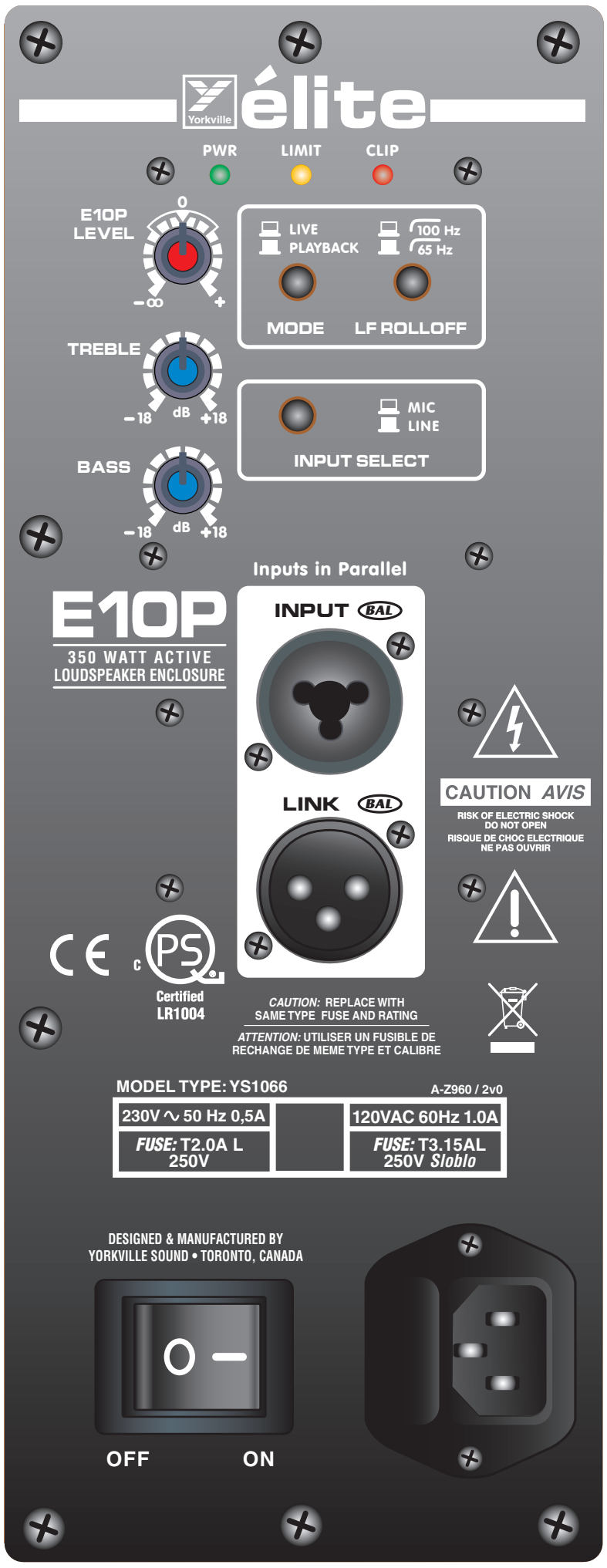
1. Lisez ces instructions.
2. Conservez ces instructions.
3. Respecter tous les avertissements.
4. Suivez toutes les instructions.
5. N'utilisez pas l'appareil près de l'eau.
6. Nettoyer uniquement avec chiffon sec.
7. Ne bloquez pas les ouvertures de ventilation. Installer en suivant les instructions 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.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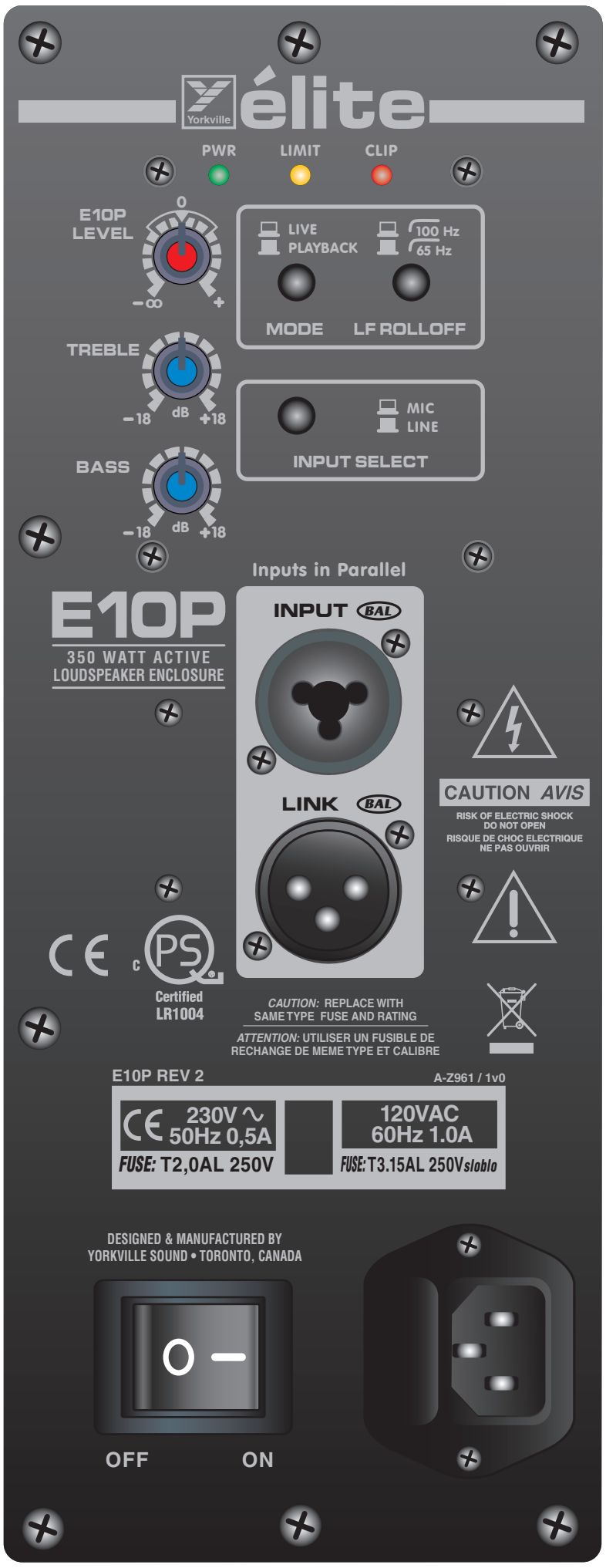
Inputs in Parallel
E10P
350 WATT ACTIVE
LOUDSPEAKER ENCLOSURE
INPUT BAL
LINK BAL
CAUTION AVIS
RISK OF ELECTRIC SHOCK
DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR
Certified
LR1004
CAUTION: REPLACE WITH
SAME TYPE FUSE AND RATING
ATTENTION: UTILISER UN FUSIBLE DE
RECHANGE DE MEME TYPE ET CALIBRE
MODEL TYPE: YS1066
A-Z960 / 2v0
230V ∿ 50 Hz 0,5A
FUSE: T2.0A L
250V
120VAC 60Hz 1.0A
FUSE: T3.15AL
250V Sloblo
DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA
OFF
ON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CAUTION: REPLACE WITH
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ATTENTION: UTILISER UN FUSIBLE DE
RECHANGE DE MEME TYPE ET CALIBRE
E10P REV 2
A-Z961 / 1v0
230V ~
50Hz 0,5A
FUSE: T2,0AL 250V
120VAC
60Hz 1.0A
FUSE: T3.15AL 250V sloblo
DESIGNED & MANUFACTURED BY
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OFF
ON

Specifications

Model:	E10p
System Type:	powered loudspeaker
Active or Passive:	Active
Program Power (Watts):	350
Biamp Operation Only:	Internally biamped
Frequency Response (Hz +/- 3db):	65 to 20k
Crossover Frequency (Hz):	1500
Driver Configuration:	2 way
HF Driver(s):	1 inch
HF Program Power (Watts):	50
HF Impedance (ohms):	8
HF Dispersion (°H x °V):	100 x 25
LF Driver(s):	10 inch
LF Program Power(Watts):	300
LF Impedance(ohms):	4-ohms
LF Protection:	excursion and RMS
Total Power (Watts):	350
HF Power Amplifier (Watts):	50
HF Processing:	peak and average limiting
LF Power Amplifier (Watts):	300
LF Processing:	peak and average limited, boost limited with multi slope curve
Cooling Scheme:	convection
Power Cable:	removable IEC
Power Switch:	yes
Power Consumption (typ/max):	120 va/200va
Inputs - 1/4-inch Jacks:	1 combi w xlr
Inputs - XLR:	1 combi w 1/4 inch
Input Impedance (Bal/UnBal):	4k ohms / 2k ohms
Input Sensitivity (Vrms Sine):	Line in 1.4 w control at center 0.35 at max Mic in -50 dBv @ max
Level Controls:	1, curve changes in mic or line mode
EQ Controls:	Bass and Treble
Limiter:	peak and average on horn and woofer, boost limited with multi slope curve
LED Indicators:	power, clip, limit
Other Controls / Features:	Dynamic 75 Hz boost, tone control frequencies and slopes differ in live/rec mode, sub/no sub switch, live recorded eq mode switch
Corners:	8
Feet:	4
Flying Hardware:	4 Flypoints - 2 Top + 2 Bottom + Pull back
Included Hardware:	1/4-20
Bar Handles:	1
Pole Mount Adapter (1 3/8-inch/3.5cm):	yes
Enclosure Materials:	15mm (5/8inch) 11-ply Russian Birch
Port(s):	1, located on rear
Grille:	Perforated Metal
Covering / Finish:	Black Ozite (Carpet)
Optional Covering / Finishes:	Black Ultrathane Paint (E10PB)
Processor (optional):	Internally biamped
Dimensions (DWH xbackW, inches):	12 x 13 x 18.5 x 5.5
Dimensions (DWH xbackW, cm):	30 x 33 x 45 x 14
Weight (lbs/kg):	34/15.5

Spécifications

Modèle:	E10p
Type de Système:	Enceinte amplifiée à haut-parleur
Actif ou Passif:	Actif
Puissance nominale (Watts):	350
Opération en mode de Biamplification Seulement:	Biamplification interne
Réponse en Fréquence (Hz +/- 3db):	65 to 20k
Fréquence de coupure(Hz):	1500
Configuration de Drivers:	2 voix
Driver(s) Hautes Fréquences:	1 pouce
Puissance Nominale pour les HF (Watts):	50
Impédance HF (ohms):	8
Dispersion HF (°H x °V):	100 x 25
Driver(s) Basses Fréquences :	10 pouces
Puissance Nominale BF (Watts):	300
Impédance BF (ohms):	4 ohms
Protection BF :	excursion et RMS
Puissance Totale (Watts):	350
Amplificateur De Puissance HF (Watts):	50
Processing HF :	Limitation de Pointe et de moyenne
Amplificateur de Puissance BF (Watts):	300
Processing LF :	Limitation de Pointe et de moyenne, Limiteur boost avec multiple pente d'atténuation
Système de refroidissement:	Convection
Cordon d'Alimentation:	IEC amovible
Commutateur de mise en marche:	Oui
Consommation de Puissance (typ/max):	120 va/200va
Entrées – Prises 1/4-pouce :	1 combi avec xlr
Entrées - XLR:	1 combi avec 1/4 pouce
Impédance d'Entrée (Sym/Asym):	4k ohms / 2k ohms
Sensibilité d'entrée (Vrms Sine):	Entrée ligne 1.4 avec contrôle au centre 0.35 au max Entrée Mic -50 dBv @ max
Contrôles de Niveau:	1, courbe change selon le mode utilisé (mic ou line)
Contrôles d'Égalisation:	Graves et Aiguës
Limiteur:	Pointe et moyenne sur le pavillon et le woofer, Limiteur boost avec multiple pente d'atténuation
DEL Indicatrices:	Alimentation, clip, limit
Autres Contrôles / Caractéristiques:	Dynamique boost 75 Hz, fréquence des contrôles de tonalité et courbe de réponse Diffèrent en mode live/rec, sélecteur sub/sans sub, Sélecteur d'égalisation pour modes Live/préenregistré
Coins:	8
Pieds:	4
Quincaillerie de suspension:	4 point de suspension - 2 dessus + 2 dessous + tire
Quincaillerie incluse:	1/4/2020
Poignés:	1
Adaptateur pour montage sur pôle (1 3/8-	Oui
Matériau de construction:	Contreplaqué de bouleau Russe 15 mm (5/8 pouce) 11-plie
Évent(s):	1, situé à l'arrière
Grille:	Métal Perforé
Recouvrement / Finition:	Ozite Noire (tapis)
Recouvrement optionnel / Finitions:	Peinture Ultra thane Noire (E10PB)
Processeur (optionnel):	Bi amplifié (interne)
Dimensions (PLH x arrière L, pouces):	12 x 13 x 18.5 x 5.5
Dimensions (PLH x arrière L, cm):	30 x 33 x 45 x 14
Poids (livres/kg):	34/15.5

E10P Block Diagram

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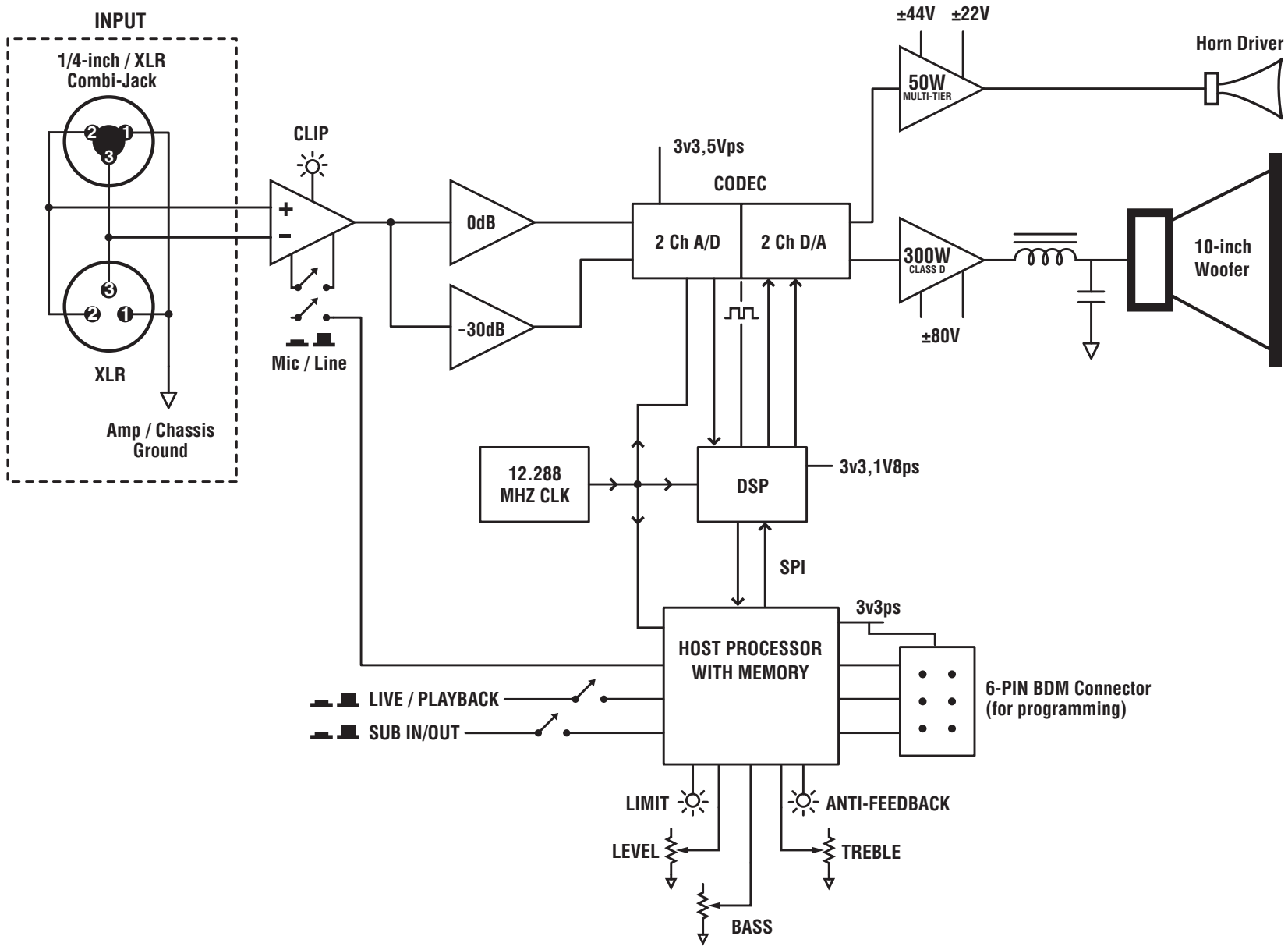


BLOCK-DIAG-e10p-00-2v0.ai

M1311 Parts Reference List 8/27/2018

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
C1		__4N7 50V 5%CAP 1206 SMT NPO	D6		MBRA340T3 40V 3A SHTKY 403D SMT	R43		W125 4K7 5% 0805 SMT RES
C2		100N 25V 10%CAP 0805 SMT X7R	D7		MMBZ5231B 5V1 0W35 5% SMT ZEN	R44		W125 4K7 5% 0805 SMT RES
C3		100N 25V 10%CAP 0805 SMT X7R	D8		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	R45		W125 10K00 0.1% 0805 SMT RES
C4		680P 50V 5%CAP SMT C0G	D9		ES1H 500V 1A0 D214 SMT SMC	R46		W125 330R 0.5% 0805 SMT RES
C5		680P 50V 5%CAP SMT C0G	D10		ES1H 500V 1A0 D214 SMT SMC	R47		W100 200R 1% 0805 SMT RES
C6		__4N7 50V 5%CAP 1206 SMT NPO	D48		ES3D 200V 3A0 D214 SMT SMC	R48		W250 10R 5% 1206 SMT RES
C7		680P 50V 5%CAP SMT C0G	D49		CDSF4148 75V 0A15 1005 SMT	R49		W250 10R 5% 1206 SMT RES
C8		_10U 25V 20%CAP 5X5.4 SMT EL	D50		CDSF4148 75V 0A15 1005 SMT	R50		W250 10R 5% 1206 SMT RES
C9		680P 50V 5%CAP SMT C0G	D51		ES3D 200V 3A0 D214 SMT SMC	R51		W250 10R 5% 1206 SMT RES
C10		_10U 25V 20%CAP 5X5.4 SMT EL	D52		ES3D 200V 3A0 D214 SMT SMC	R52		W100 475K 1% 0805 SMT RES
C11		__1N 50V 5%CAP 0805 SMT NPO	D53		ES3D 200V 3A0 D214 SMT SMC	R53		W100 475K 1% 0805 SMT RES
C12		__1N 50V 5%CAP 0805 SMT NPO	D54		ES3D 200V 3A0 D214 SMT SMC	R54		W125 4K7 5% 0805 SMT RES
C13		270P 50V 5%CAP 0805 SMT NPO	D55		ES3D 200V 3A0 D214 SMT SMC	R55		W125 1K800 0.1% 0805 SMT RES
C14		270P 50V 5%CAP 0805 SMT NPO	D56		ES3D 200V 3A0 D214 SMT SMC	R56		W125 33K 5% 0805 SMT RES
C15		_33U 25V 20%CAP 6.3X5.5 SMT EL	D57		ES3D 200V 3A0 D214 SMT SMC	R57		W250 22R 5% 1206 SMT RES
C16		__1U 50V 20%CAP 4.3X3.9 SMT ELC	D58		ES3D 200V 3A0 D214 SMT SMC	R58		W125 1K800 0.1% 0805 SMT RES
C17		_33U 25V 20%CAP 6.3X5.5 SMT EL	D59		ES3D 200V 3A0 D214 SMT SMC	R59		W125 1M 5% 0805 SMT RES
C18		__4U7 25V 20%CAP 4X5.5 SMT ELC	D60		ES3D 200V 3A0 D214 SMT SMC	R60		W100 274K 1% 0805 SMT RES
C20		_47P 50V 5%CAP 0805 SMT NPO	D61		ES3D 200V 3A0 D214 SMT SMC	R61	2487	_7.0 AMP SLO-BLO T&R FUSE
C21		100N 25V 10%CAP 0805 SMT X7R	D62		ES3D 200V 3A0 D214 SMT SMC	R62		W250 10R 5% 1206 SMT RES
C22		_10N 50V 5%CAP 1206 SMT NPO	D63		ES3D 200V 3A0 D214 SMT SMC	R63		W125 1K800 0.1% 0805 SMT RES
C23		100U 25V 20%CAP 8X5.4 SMT ELE	J1	4100	XLR MALE PCB MT VERT	R64		W125 1K02 0.1% 0805 SMT RES
C24		680U 6V3 20%CAP 8X10 SMT ELE	J3	6509	1/4"& XLR PCB MT VERT COMBO NEUTRIK	R65		W100 18K2 1% 0805 SMT RES
C26		100N 25V 10%CAP 0805 SMT X7R	L1	3759	___4UH COIL 14AWG ZOBEL VERTICAL	R66		W100 475R 1% 0805 SMT RES
C27		100N 25V 10%CAP 0805 SMT X7R	L2	6562	_192UH CHOKE 74T20AWG/77256MAGNTKS	R68		W250 10R 5% 1206 SMT RES
C28		_10U 25V 20%CAP 5X5.4 SMT EL	L3		_8.2UH COIL 1210 SMT	R98	2487	_7.0 AMP SLO-BLO T&R FUSE
C29		100N 25V 10%CAP 0805 SMT X7R	L5	6492	1300UH COIL COMMON MODE 4AMP	R187		1W00 1K8 5% 2512 SMT RES
C30		100N 25V 10%CAP 0805 SMT X7R	L56		120UH COIL A67 0R4 SMT	R220		W250 10R 5% 1206 SMT RES
C31		100N 25V 10%CAP 0805 SMT X7R	LD2	5907	YEL 3MM LED 1V9 20MA.4SPCER T&R	S3	3522	DPDT MINI PC VERT SNP ALT
C40		100N 100V 10%CAP 1206 SMT X7R	LD3	5908	GRN 3MM LED 1V9 20MA.4SPCER T&R	S4	3440	4PDT MINI VERT ALT SWITCH
C45		100N 25V 10%CAP 0805 SMT X7R	LD4	5906	RED 3MM LED 1V9 20MA.4SPCER T&R	S8	3522	DPDT MINI PC VERT SNP ALT
C48		100N 25V 10%CAP 0805 SMT X7R	P3	4388	100K B LIN 9MM DETENT KNURL P30	U1		SN74AC74DR DUAL FPFLOP SMT IC
C49		__2U2 100V 20%CAP 1812 SMT X7R	P4	4388	100K B LIN 9MM DETENT KNURL P30	U2		AK4620A VSOP-30 CODEC SMT IC
C50		__2U2 100V 20%CAP 1812 SMT X7R	P5	4388	100K B LIN 9MM DETENT KNURL P30	U3		NE5532D DUAL OPAMP SMT SO-8
C52		100N 25V 10%CAP 0805 SMT X7R	Q2		LM317S POS REG SMT TO263	U4		NE5532D DUAL OPAMP SMT SO-8
C53		100N 25V 10%CAP 0805 SMT X7R	Q4		T810-600G-TR 8A TRIAC D2PAK SMT	U6		LM2671 3V3 REG 0A5 SMT SO8
C54		100N 25V 10%CAP 0805 SMT X7R	Q5		12.288MHZ CRYSTAL 4-PIN SMT	U7		MC9S08GT60 MICROCNTRLLER SMT QFP44
C55		100N 25V 10%CAP 0805 SMT X7R	Q6		MMBTA14 NPN DARL SOT-23 SMT	U8		ADAU1701 28/56 DSP 2AD4DA SMT IC
C57		_15P 50V 5%CAP 0603 SMT NPO	Q7		MMBTA14 NPN DARL SOT-23 SMT	W2	4148	06 CIR DUAL ROW HDR VT 0.1
C60		100N 25V 10%CAP 0805 SMT X7R	Q8		MMBT3906LT1 PNP SOT-23 SMT T&R	W3	4145	9PIN 3X3 POWER PIN HEADER
C61		100U 6V3 20%CAP 6.3X5.4 SMT ELE	Q9		MMBT5401 PNP SOT-23 SMT	W4	3538	24 PIN BREAKAWAY LOCK .156
C62		100N 25V 10%CAP 0805 SMT X7R	Q10	5190	MBS4992 TO92 8V5 DIAC T&R	W6	6535	26 SKT 25SQ 100 SIL BOT-ENTRY
C63	5910	4700U 100V 10%CAP BLK 35X40MM 4PS	R1		W125 4K7 5% 0805 SMT RES	W7	2337	4 CIR XH-HEADER 0.098IN
C64		_10U 25V 20%CAP 5X5.4 SMT EL	R2		W125 4K7 5% 0805 SMT RES	W8	2337	4 CIR XH-HEADER 0.098IN
C65		100N 25V 10%CAP 0805 SMT X7R	R3		W125 4K7 5% 0805 SMT RES	W12	2329	12 CIR XH-HEADER 0.098IN
C66		100N 25V 10%CAP 0805 SMT X7R	R4		W125 4K7 5% 0805 SMT RES	W13	2327	6 CIR XH-HEADER 0.098IN
C67		100N 25V 10%CAP 0805 SMT X7R	R5		W100 200R 1% 0805 SMT RES	W14	2327	6 CIR XH-HEADER 0.098IN
C68		100N 25V 10%CAP 0805 SMT X7R	R6		W100 200R 1% 0805 SMT RES	W15	2329	12 CIR XH-HEADER 0.098IN
C69		__1U 50V 20%CAP 4.3X3.9 SMT ELC	R7		W125 4K7 5% 0805 SMT RES	W16	3949	G/Y 18AWG STRANDED GRN BASE YEL STR
C70		_10U 25V 20%CAP 5X5.4 SMT EL	R8		W100 200R 1% 0805 SMT RES	W17	3958	BLK 18AWG 36STND WIRE DOU/INS
C71		100N 25V 10%CAP 0805 SMT X7R	R9		W125 4K7 5% 0805 SMT RES	W18	3957	WHT 18AWG 36STND WIRE DOU/INS
C72		100N 25V 10%CAP 0805 SMT X7R	R10		W100 15K0 1% 0805 SMT RES	W21	3941	BLK 18AWG TR64 PREFUSED WIRE
C73		_47U 16V 20%CAP 6X5.4 SMT ELE	R11		W100 15K0 1% 0805 SMT RES	W22	3941	BLK 18AWG TR64 PREFUSED WIRE
C74		100N 25V 10%CAP 0805 SMT X7R	R12		W100 200R 1% 0805 SMT RES	W23	3941	BLK 18AWG TR64 PREFUSED WIRE
C75		100N 25V 10%CAP 0805 SMT X7R	R13		W125 1K02 0.1% 0805 SMT RES	W24	3941	BLK 18AWG TR64 PREFUSED WIRE
C76		100N 25V 10%CAP 0805 SMT X7R	R14		W125 18K00 0.1% 0805 SMT RES	W25	3941	BLK 18AWG TR64 PREFUSED WIRE
C77		_47U 16V 20%CAP 6X5.4 SMT ELE	R15		W125 10K00 0.1% 0805 SMT RES	W26	3941	BLK 18AWG TR64 PREFUSED WIRE
C78		100N 25V 10%CAP 0805 SMT X7R	R16		FUSE SLOW 7A 125V SMT 6125	W27	3941	BLK 18AWG TR64 PREFUSED WIRE
C79		100N 25V 10%CAP 0805 SMT X7R	R17		FUSE SLOW 7A 125V SMT 6125	W28	3941	BLK 18AWG TR64 PREFUSED WIRE
C80		_47U 16V 20%CAP 6X5.4 SMT ELE	R18		W125 18K00 0.1% 0805 SMT RES	W29	3941	BLK 18AWG TR64 PREFUSED WIRE
C81		100N 25V 10%CAP 0805 SMT X7R	R19		W125 10K00 0.1% 0805 SMT RES	W30	4147	6 PIN POWER PIN HEADER MALE POLZED
C82		__3N3 25V 5%CAP 0805 SMT NPO	R20		W125 1K800 0.1% 0805 SMT RES	W31	3941	BLK 18AWG TR64 PREFUSED WIRE
C83		100N 25V 10%CAP 0805 SMT X7R	R21		W125 1M 5% 0805 SMT RES	W32	3949	G/Y 18AWG STRANDED GRN BASE YEL STR
C84		_47U 16V 20%CAP 6X5.4 SMT ELE	R22		W125 1K800 0.1% 0805 SMT RES	W33	3949	G/Y 18AWG STRANDED GRN BASE YEL STR
C85		100N 25V 10%CAP 0805 SMT X7R	R23		W125 330R 0.5% 0805 SMT RES	X1	4599	22AWG SOLID SC WIR T&R JMP
C86		100N 25V 10%CAP 0805 SMT X7R	R24		W100 2K32 1% 0805 SMT RES			
C102	5242	100N 250V 20%CAP BLK 'X2' 15MM AC	R25		W125 33K 5% 0805 SMT RES			
C104	5912	2200U 63V 20%CAP RADIAL ELECT BULK	R26		W250 10R 5% 1206 SMT RES			
C105	5887	2200U 50V 20%CAP BLK 18X27MM EL	R27		W125 1K02 0.1% 0805 SMT RES			
C106	5266	680N 250V 20%CAP BLK 'X2' 27MM AC	R28		W125 30K 0.5% 0805 SMT RES			
C111	5887	2200U 50V 20%CAP BLK 18X27MM EL	R29		W125 1K800 0.1% 0805 SMT RES			
C112	6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC	R30		W125 330R 0.5% 0805 SMT RES			
C115	5912	2200U 63V 20%CAP RADIAL ELECT BULK	R31		W125 10K00 0.1% 0805 SMT RES			
C118		__2N2 50V 10%CAP 0603 SMT COG	R33		W100 2K32 1% 0805 SMT RES			
C123	5910	4700U 100V 10%CAP BLK 35X40MM 4PS	R35		W125 1K02 0.1% 0805 SMT RES			
D1		MM3Z10VT1G 10V0 0W2 5% SMT ZEN	R36		W125 330R 0.5% 0805 SMT RES			
D2		MM3Z10VT1G 10V0 0W2 5% SMT ZEN	R37		W125 47R 5% 0805 SMT RES			
D3		CDSF4148 75V 0A15 1005 SMT	R40		W100 475R 1% 0805 SMT RES			
D4		CDSF4148 75V 0A15 1005 SMT	R41		W100 2K32 1% 0805 SMT RES			
D5		CDSF4148 75V 0A15 1005 SMT	R42		W100 100R 1% 0805 SMT RES			

M1495 01 Parts Reference List 9/24/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
C1		100N 50V 5%CAP 0805 SMT X7R	Q21		MJB41C NPN D2PAK SMT TS	R81		W250 0R 1206 SMT RES
C2		22P 50V 5%CAP 0805 SMT NPO	R1		W125 470R 5% 0805 SMT RES	R82		W250 0R 1206 SMT RES
C3		4N7 50V 5%CAP 1206 SMT NPO	R2		47K 5% THERMISTOR NTC 0603 SMT	R83		W250 0R 1206 SMT RES
C4		10N 50V 5%CAP 1206 SMT NPO	R3		W250 0R 1206 SMT RES	R84		W250 0R 1206 SMT RES
C5		10N 50V 5%CAP 1206 SMT NPO	R4		W125 100K 5% 0805 SMT RES	R85		W250 0R 1206 SMT RES
C6		47P 50V 5%CAP 0805 SMT NPO	R5		W125 560R 5% 0805 SMT RES	R86		W250 0R 1206 SMT RES
C7		1U 25V 20%CAP 1206 SMT X7R	R6		10K 5% THERMISTOR NTC 0805 SMT	R87		W250 0R 1206 SMT RES
C8		100N 100V 10%CAP 1206 SMT X7R	R7		W125 47R 5% 0805 SMT RES	R88		W250 0R 1206 SMT RES
C9		100N 100V 10%CAP 1206 SMT X7R	R8		W250 10R 5% 1206 SMT RES	R89		W250 0R 1206 SMT RES
C10		470P 50V 5%CAP 0603 SMT NPO	R9		W125 10K 5% 0805 SMT RES	R90		W250 0R 1206 SMT RES
C11		470P 50V 5%CAP 0603 SMT NPO	R10		W125 1K5 5% 0805 SMT RES	R91		W125 47R 5% 0805 SMT RES
C12		1U 25V 20%CAP 1206 SMT X7R	R11		W125 10K 5% 0805 SMT RES	R98		W125 10K 5% 0805 SMT RES
C13		2U2 200V 20%CAP 3025 SMT CER	R12		W125 1K02 0.1% 0805 SMT RES	R99		W125 47R 5% 0805 SMT RES
C14		2U2 200V 20%CAP 3025 SMT CER	R13		W250 1M0 1% 1206 SMT RES	U1		33078 DUAL OPAMP SMT SO-8
C15		2U2 200V 20%CAP 3025 SMT CER	R14		W125 1M 5% 0805 SMT RES	U2		33078 DUAL OPAMP SMT SO-8
C16		2U2 100V 20%CAP 1812 SMT X7R	R15		W125 1M 5% 0805 SMT RES	U3		IRS20124S H/L FET DRIVER SMT SO14
C17		2U2 100V 20%CAP 1812 SMT X7R	R16		W125 2K2 5% 0805 SMT RES	U4		TLC555 TIMER SMT SO8 IC
C18		100N 50V 5%CAP 0805 SMT X7R	R17		W125 1M 5% 0805 SMT RES	U5		LM311 COMPARATOR IC SMT SO-8
C19		10N 50V 5%CAP 1206 SMT NPO	R18		W125 4K7 5% 0805 SMT RES	W1		26 PIN 25SQ 100 PIN SIL SMT
C20		100N 50V 5%CAP 0805 SMT X7R	R19		W125 10K 5% 0805 SMT RES			
C21		100N 50V 5%CAP 0805 SMT X7R	R20		W250 100R 5% 1206 SMT RES			
C22		100N 50V 5%CAP 0805 SMT X7R	R21		W125 560R 5% 0805 SMT RES			
C23		4U7 25V 20%CAP 4X5.5 SMT ELC	R22		W125 1K5 5% 0805 SMT RES			
C24		4N7 50V 5%CAP 1206 SMT NPO	R23		W125 150K 5% 0805 SMT RES			
C25		10P 50V 5%CAP 0402 SMT NPO	R24		W125 100K 5% 0805 SMT RES			
C26		10U 25V 20%CAP 5X5.4 SMT EL	R25		W125 10K 5% 0805 SMT RES			
C27		100N 50V 5%CAP 0805 SMT X7R	R26		W125 33K 5% 0805 SMT RES			
C28		47U 35V 20%CAP 6.3MM SMT ELE	R27		W125 270R 5% 0805 SMT RES			
C29		1U 50V 20%CAP 3.3MM SMT ELE	R28		W125 4K7 5% 0805 SMT RES			
C30		1U 50V 20%CAP 3.3MM SMT ELE	R29		W125 39K 5% 0805 SMT RES			
C31		100N 100V 10%CAP 1206 SMT X7R	R30		W250 10R 5% 1206 SMT RES			
C32		100N 100V 10%CAP 1206 SMT X7R	R31		W125 10K 5% 0805 SMT RES			
C33		100N 100V 10%CAP 1206 SMT X7R	R32		W125 3K92 1% 0805 SMT RES			
C34		1U 25V 20%CAP 1206 SMT X7R	R33		W125 20K 5% 0805 SMT RES			
C35		470P 50V 5%CAP 0603 SMT NPO	R34		W125 20K 5% 0805 SMT RES			
C36		100P 50V 10%CAP 0805 SMT NPO	R35		W125 20K 5% 0805 SMT RES			
C37		1N 50V 5%CAP 0805 SMT NPO	R36		W125 20K 5% 0805 SMT RES			
C38		1N 50V 5%CAP 0805 SMT NPO	R37		W125 3K92 1% 0805 SMT RES			
D2		CDSU4148 100V 0A15 0603 SMT	R38		W250 10R 5% 1206 SMT RES			
D3		CDSU4148 100V 0A15 0603 SMT	R39		W250 22R 5% 1206 SMT RES			
D4		MM3Z15VT1G 15V0 0W2 5% SMT ZEN	R40		W250 22R 5% 1206 SMT RES			
D5		CDSU4148 100V 0A15 0603 SMT	R41		W125 100K 5% 0805 SMT RES			
D6		MURA240T3 400V 2A 403D SMT	R42		W125 100K 5% 0805 SMT RES			
D8		MBRA340T3 40V 3A SHTKY 403D SMT	R43		W125 47R 5% 0805 SMT RES			
D9		MBRA340T3 40V 3A SHTKY 403D SMT	R44		W125 4K7 5% 0805 SMT RES			
D10		MM3Z15VT1G 15V0 0W2 5% SMT ZEN	R45		W100 100R 1% 0805 SMT RES			
D12		MM3Z12VT1G 12V0 0W2 5% SMT ZEN	R46		W125 470R 5% 0805 SMT RES			
D14		MM3Z10VT1G 10V0 0W2 5% SMT ZEN	R47		W125 1K5 5% 0805 SMT RES			
D15		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	R48		W125 33K 5% 0805 SMT RES			
D16		1N914 DIODE SOT23 SMT	R49		W125 10K 5% 0805 SMT RES			
D17		MM3Z12VT1G 12V0 0W2 5% SMT ZEN	R50		W125 1K5 5% 0805 SMT RES			
D18		1N914 DIODE SOT23 SMT	R51		W125 1K5 5% 0805 SMT RES			
D19		1N914 DIODE SOT23 SMT	R52		W125 1K5 5% 0805 SMT RES			
D20		1N914 DIODE SOT23 SMT	R53		W125 560R 5% 0805 SMT RES			
D21		1N914 DIODE SOT23 SMT	R54		W125 270R 5% 0805 SMT RES			
D22		1N914 DIODE SOT23 SMT	R55		W500 2K2 5% 2010 SMT RES			
D23		1N914 DIODE SOT23 SMT	R56		W500 2K2 5% 2010 SMT RES			
D24		MM3Z15VT1G 15V0 0W2 5% SMT ZEN	R57		W250 100R 5% 1206 SMT RES			
D25		MURA240T3 400V 2A 403D SMT	R58		W500 2K2 5% 2010 SMT RES			
D26		MURA240T3 400V 2A 403D SMT	R59		W500 2K2 5% 2010 SMT RES			
Q1		MMBT5401 PNP SOT-23 SMT	R60		W250 100R 5% 1206 SMT RES			
Q2		MMBT5401 PNP SOT-23 SMT	R61		W125 470R 5% 0805 SMT RES			
Q3		MJD243T4G NPN DPAK3 SMT TS	R62		W125 470R 5% 0805 SMT RES			
Q4		MMBT3904 NPN SOT-23 SMT	R63		W250 0R27 5% 1206 SMT RES			
Q5		IRFS4227PBF NCH MFET D2PAK SMT TS	R64		W250 0R27 5% 1206 SMT RES			
Q6		IRFS4227PBF NCH MFET D2PAK SMT TS	R65		W250 0R27 5% 1206 SMT RES			
Q7		MC7815BDTG POS REG SMT DPAK3	R66		W250 0R27 5% 1206 SMT RES			
Q8		MC79M15CDTG NEG REG SMT DPAK3	R67		PTC RESETTABLE 1.5A 6V 1812L SMT			
Q9		MMBT5401 PNP SOT-23 SMT	R68		W250 0R 1206 SMT RES			
Q10		IRF530NS NCH MFET D2PAK SMT TS	R69		W250 0R 1206 SMT RES			
Q11		IRF9530NS PCH MFET D2PAK SMT TS	R70		W250 0R 1206 SMT RES			
Q12		MJD243T4G NPN DPAK3 SMT TS	R72		W250 0R 1206 SMT RES			
Q13		MJD243T4G NPN DPAK3 SMT TS	R73		W250 0R 1206 SMT RES			
Q14		MMBF4391LT1 NCH JFET SOT-23 SMT T&R	R74		W250 0R 1206 SMT RES			
Q15		MJB41C NPN D2PAK SMT TS	R75		W125 10K 5% 0805 SMT RES			
Q16		MJB42C PNP D2PAK SMT TS	R76		W250 0R 1206 SMT RES			
Q17		MMBT5401 PNP SOT-23 SMT	R77		W250 0R 1206 SMT RES			
Q18		MMBT5401 PNP SOT-23 SMT	R78		W250 0R 1206 SMT RES			
Q19		MJD253T4G PNP DPAK3 SMT TS	R79		W125 10K 5% 0805 SMT RES			
Q20		MJB42C PNP D2PAK SMT TS	R80		W250 0R 1206 SMT RES			

M1501-59 03 Parts Reference List 10/26/2020

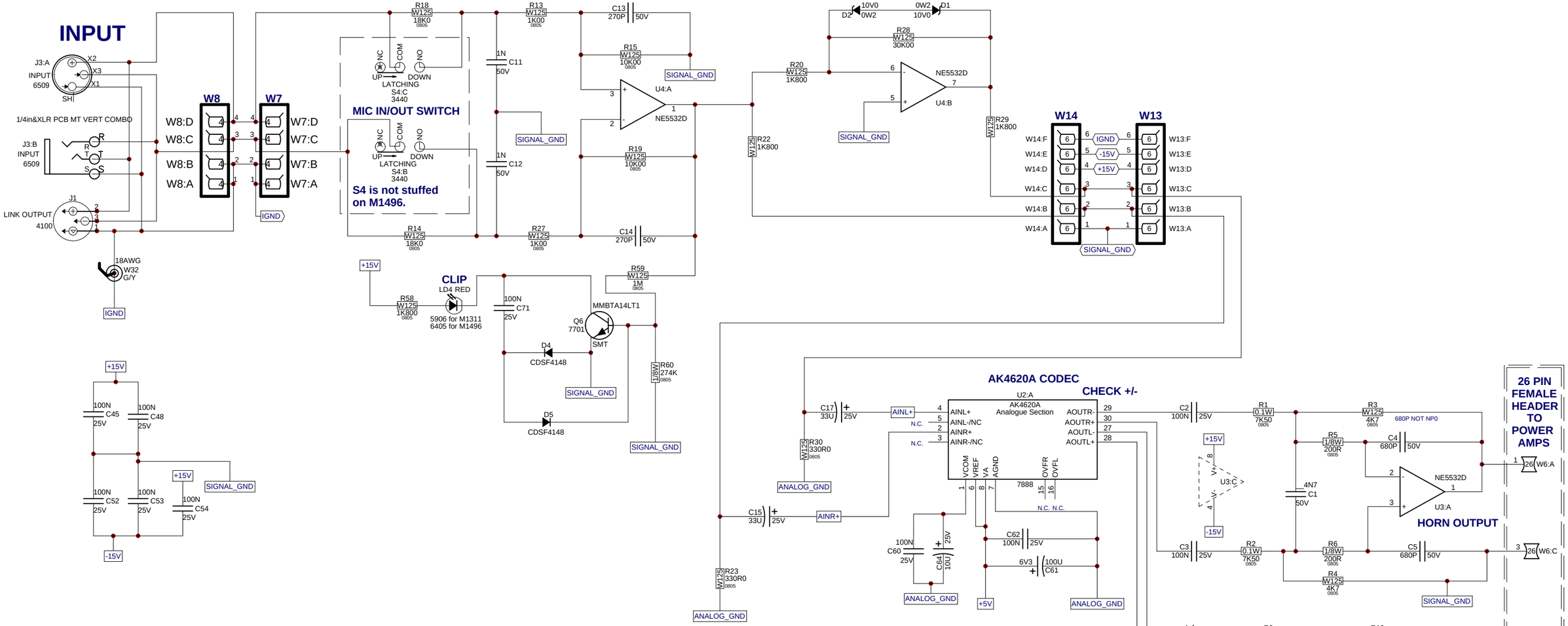
REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
C1		470P 50V 5%CAP 0603 SMT NPO	R10		W125 3K32 1% 0805 SMT RES	U3		IRS20957S DIG AUDIO DRVR SMT SOIC
C2		10U 16V 20%CAP 0805 SMT X5R	R11		W125 3K32 1% 0805 SMT RES	U5		TL071CDR OPAMP JFET 3MHZ SO-8 SMT
C3		10U 16V 10%CAP 0805 SMT X6S	R12		1W00 4R7 5% 2512 SMT RES	U13		OPA1652 DUAL OPAMP SMT SO8
C4		10N 50V 10%CAP 0805 SMT X7R	R13		W100 7K50 1% 0805 SMT RES	W1		26 PIN 25SQ 100 PIN SIL SMT
C5		10U 16V 10%CAP 1206 SMT X7R	R14		1W00 4R7 5% 2512 SMT RES	ZD1		MMBZ5246B 16V0 0W35 5% SMT ZEN3
C6		10U 16V 20%CAP 0805 SMT X5R	R15		W125 3K32 1% 0805 SMT RES	ZD6		MM3Z15VT1G 15V0 0W2 5% SMT ZEN
C7		4N7 50V 10%CAP 0805 SMT X7R	R16		1W00 1K 5% 2512 SMT RES	ZD7		MM3Z15VT1G 15V0 0W2 5% SMT ZEN
C8		4N7 50V 10%CAP 0805 SMT X7R	R18		W250 100R 5% 1206 SMT RES	ZD8		MMBZ5246B 16V0 0W35 5% SMT ZEN3
C9		100N 450V 10%CAP 1206 SMT X7T	R19		W500 2K2 5% 2010 SMT RES			
C10		47P 100V 5%CAP 0805 SMT NPO	R20		W125 3K32 1% 0805 SMT RES			
C11		1U 25V 20%CAP 1206 SMT X7R	R21		W125 3K32 1% 0805 SMT RES			
C12		10U 25V 10%CAP 1210 SMT X7R	R22		W125 150K 5% 0805 SMT RES			
C13		100N 450V 10%CAP 1206 SMT X7T	R23		W125 33K 5% 0805 SMT RES			
C14		2U2 200V 20%CAP 3025 SMT CER	R24		W100 100K0 1% 0805 SMT RES			
C15		2U2 200V 20%CAP 3025 SMT CER	R25		W125 91K 5% 0805 SMT RES			
C16		2U2 100V 20%CAP 1812 SMT X7R	R26		W125 0R 5% 0805 SMT RES			
C17		2U2 100V 20%CAP 1812 SMT X7R	R27		W125 0R 5% 0805 SMT RES			
C18		100N 50V 5%CAP 0805 SMT X7R	R28		W125 3K32 1% 0805 SMT RES			
C19		1U 25V 20%CAP 1206 SMT X7R	R29		W250 0R 1206 SMT RES			
C21		100N 50V 5%CAP 0805 SMT X7R	R31		1W00 47K 5% 2512 SMT RES			
C23		10U 25V 10%CAP 1210 SMT X7R	R32		W750 0R 1% 6A 2010 SMT JMP			
C25		10U 16V 20%CAP 5X5.4 SMT NP	R34		W125 0R 5% 0805 SMT RES			
C26		10U 16V 20%CAP 5X5.4 SMT NP	R35		W100 10K0 1% 0805 SMT RES			
C27		10U 25V 20%CAP 5X5.4 SMT EL	R38		1W00 33K 5% 2512 SMT RES			
C28		10U 25V 20%CAP 5X5.4 SMT EL	R39		1W00 4R7 5% 2512 SMT RES			
C29		100N 100V 10%CAP 1206 SMT X7R	R40		1W00 4R7 5% 2512 SMT RES			
C32		100N 450V 10%CAP 1206 SMT X7T	R41		1W00 15K 5% 2512 SMT RES			
C37		47P 100V 5%CAP 0805 SMT NPO	R42		W100 1K0 1% 0805 SMT RES			
C61		1N 50V 5%CAP 0805 SMT NPO	R43		W500 2K2 5% 2010 SMT RES			
C64		47P 100V 5%CAP 0805 SMT NPO	R44		W500 220R 1% 1210 SMT RES			
C69		100N 50V 5%CAP 0805 SMT X7R	R45		1W00 0R27 1% 75PPM 2010 SMT RES			
D1		BAS21L 250V 200MA SOT23 SMT	R46		W500 220R 1% 1210 SMT RES			
D2		MURA240T3 400V 2A DIO 403D SMT	R47		W100 1K0 1% 0805 SMT RES			
D3		MURA240T3 400V 2A DIO 403D SMT	R48		1W00 0R27 1% 75PPM 2010 SMT RES			
D4		5237B 8V2 0W2 SOT-23 SMT ZEN	R49		1W00 0R27 1% 75PPM 2010 SMT RES			
D5		MMBZ5231B 5V1 0W35 5% SMT ZEN	R50		1W00 0R27 1% 75PPM 2010 SMT RES			
D6		MMBZ5231B 5V1 0W35 5% SMT ZEN	R51		W500 220R 1% 1210 SMT RES			
D7		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	R52		W500 220R 1% 1210 SMT RES			
D8		BAV21WS 200V 0A2 SOD323 SMT	R53		W500 2K2 5% 2010 SMT RES			
D9		BAV21WS 200V 0A2 SOD323 SMT	R54		W500 2K2 5% 2010 SMT RES			
D10		BAS21L 250V 200MA SOT23 SMT	R55		W500 2K2 5% 2010 SMT RES			
D11		MM3Z15VT1G 15V0 0W2 5% SMT ZEN	R56		W100 100R 1% 0805 SMT RES			
D12		MURA240T3 400V 2A DIO 403D SMT	R60		W750 0R 1% 6A 2010 SMT JMP			
D13		BAV21WS 200V 0A2 SOD323 SMT	R61		W250 0R 1206 SMT RES			
D14		BAV21WS 200V 0A2 SOD323 SMT	R61_2T		W125 0R 5% 0805 SMT RES			
D15		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	R63		1W00 0R 5% 2512 SMT RES			
D17		BAV21WS 200V 0A2 SOD323 SMT	R64		W250 0R 1206 SMT RES			
D30A		CDSF4148 75V 0A15 1005 SMT	R66		W100 100K0 1% 0805 SMT RES			
D36		BAS21L 250V 200MA SOT23 SMT	R72		W100 221R 1% 0805 SMT RES			
D42		BAS21L 250V 200MA SOT23 SMT	R76		W250 0R 1206 SMT RES			
M1501		W250 0R 1206 SMT RES	R79		W125 3K32 1% 0805 SMT RES			
P6		10K 25% ACP KAP TRIM POT SMT T&R	R82		W250 0R 1206 SMT RES			
PCB1	X8025BLANK	2_OZ 1SD 107.5SQIN 08PER ALUM 1.5MM	R87		W250 0R 1206 SMT RES			
Q2		MMBT5401 PNP SOT-23 SMT	R97_2T		W125 0R 5% 0805 SMT RES			
Q3		MMBF4391LT1 NCH JFET SOT-23 SMT T&R	R99		1W00 1K 5% 2512 SMT RES			
Q4		MJD243T4G NPN DPAK3 SMT TS	R106_2		W250 0R 1206 SMT RES			
Q5		IRFS4227PBF NCH MFET D2PAK SMT TS	R107_2		W250 0R 1206 SMT RES			
Q6		IRFS4227PBF NCH MFET D2PAK SMT TS	R109		W125 1M 5% 0805 SMT RES			
Q7		MC7815BDTG POS REG SMT DPAK3	R112		W125 470R 5% 0805 SMT RES			
Q8		MC79M15CDTG NEG REG SMT DPAK3	R113		W100 10K0 1% 0805 SMT RES			
Q10		IRF530NS NCH MFET D2PAK SMT TS	R114		W125 1K62 1% 0805 SMT RES			
Q11		2SC4027 NPN DPAK3 SMT TR	R116		PTC RESETTABLE 1.5A 6V 1812L SMT			
Q12		2SC4027 NPN DPAK3 SMT TR	R117		W125 1K50 1% 0805 SMT RES			
Q13		STB13007DT4 NPN D2PAK SMT	R118		W100 2K74 1% 0805 SMT RES			
Q14		MMBF4391LT1 NCH JFET SOT-23 SMT T&R	R119		W125 470R 5% 0805 SMT RES			
Q15		STB13007DT4 NPN D2PAK SMT	R120		W125 14K0 1% 0805 SMT RES			
Q16		2SA1552 PNP DPAK3 SMT TR	R121		W100 10K0 1% 0805 SMT RES			
Q17		MMBTA64LT1G PNP DARL SOT-23 SMT	R125		W100 15K0 1% 0805 SMT RES			
Q18		2SA1552 PNP DPAK3 SMT TR	R126		W125 17K8 1% 0805 SMT RES			
Q19		STB13007DT4 NPN D2PAK SMT	R127		W125 470R 5% 0805 SMT RES			
Q20		STB13007DT4 NPN D2PAK SMT	R130		W125 8K25 1% 0805 SMT RES			
Q21		IRF9530NS PCH MFET D2PAK SMT TS	R131		W125 47R 5% 0805 SMT RES			
R1		W100 2K74 1% 0805 SMT RES	R132		W125 47R 5% 0805 SMT RES			
R2		47K 5% THERMISTOR NTC 0603 SMT	R134		W100 221R 1% 0805 SMT RES			
R4		W100 10K0 1% 0805 SMT RES	R136		W500 2K2 5% 2010 SMT RES			
R5		W100 1K0 1% 0805 SMT RES	R138		W100 100R 1% 0805 SMT RES			
R6		W500 2K2 5% 2010 SMT RES	R141		W500 2K2 5% 2010 SMT RES			
R7		W125 1M 5% 0805 SMT RES	TP1		TEST POINT MINIATURE SMT			
R8		W250 10R 5% 1206 SMT RES	TP2		TEST POINT MINIATURE SMT			
R9		W125 348R0 1% 0805 SMT RES	U1		LM393D DUAL COMPARATOR SMT SO-8			

M1310 Parts Reference List 8/29/2018

REF	YS #	Description
C1		__4N7 50V 5%CAP 1206 SMT NPO
C2		100N 50V 5%CAP 0805 SMT X7R
C3		100N 50V 5%CAP 0805 SMT X7R
C4		180P 50V 5%CAP 0805 SMT NPO
C5		180P 50V 5%CAP 0805 SMT NPO
C6		__4N7 50V 5%CAP 1206 SMT NPO
C7		680P 50V 5%CAP 0805 SMT C0G
C8		_10U 25V 20%CAP 5X5.4 SMT EL
C9		680P 50V 5%CAP 0805 SMT C0G
C10		_10U 25V 20%CAP 5X5.4 SMT EL
C11		__1N 50V 5%CAP 0805 SMT NPO
C12		__1N 50V 5%CAP 0805 SMT NPO
C13		270P 50V 5%CAP 0805 SMT NPO
C14		270P 50V 5%CAP 0805 SMT NPO
C15		_33U 25V 20%CAP 6.3X5.5 SMT EL
C16		__1U 50V 20%CAP 4.3X3.9 SMT ELC
C17		_33U 25V 20%CAP 6.3X5.5 SMT EL
C18		__4U7 25V 20%CAP 4X5.5 SMT ELC
C20		_47P 50V 5%CAP 0805 SMT NPO
C21		100N 50V 5%CAP 0805 SMT X7R
C22		_10N 50V 5%CAP 1206 SMT NPO
C23		100U 25V 20%CAP 8X5.4 SMT ELE
C24		680U 6V3 20%CAP 8X10 SMT ELE
C26		100N 50V 5%CAP 0805 SMT X7R
C27		100N 50V 5%CAP 0805 SMT X7R
C28		_10U 25V 20%CAP 5X5.4 SMT EL
C30		100N 50V 5%CAP 0805 SMT X7R
C31		100N 50V 5%CAP 0805 SMT X7R
C40		100N 100V 10%CAP 1206 SMT X7R
C45		100N 50V 5%CAP 0805 SMT X7R
C48		100N 50V 5%CAP 0805 SMT X7R
C49		__2U2 100V 20%CAP 1812 SMT X7R
C50		__2U2 100V 20%CAP 1812 SMT X7R
C52		100N 50V 5%CAP 0805 SMT X7R
C53		100N 50V 5%CAP 0805 SMT X7R
C54		100N 50V 5%CAP 0805 SMT X7R
C55		100N 50V 5%CAP 0805 SMT X7R
C57		_15P 50V 5%CAP 0603 SMT NPO
C60		100N 50V 5%CAP 0805 SMT X7R
C61		100U 6V3 20%CAP 6.3X5.4 SMT ELE
C62		100N 50V 5%CAP 0805 SMT X7R
C63	5910	4700U 100V 10%CAP BLK 35X40MM 4PS
C64		_10U 25V 20%CAP 5X5.4 SMT EL
C65		100N 50V 5%CAP 0805 SMT X7R
C66		100N 50V 5%CAP 0805 SMT X7R
C67		100N 50V 5%CAP 0805 SMT X7R
C68		100N 50V 5%CAP 0805 SMT X7R
C69		__1U 50V 20%CAP 4.3X3.9 SMT ELC
C70		_10U 25V 20%CAP 5X5.4 SMT EL
C71		100N 50V 5%CAP 0805 SMT X7R
C72		100N 50V 5%CAP 0805 SMT X7R
C73		_47U 16V 20%CAP 6X5.4 SMT ELE
C74		100N 50V 5%CAP 0805 SMT X7R
C75		100N 50V 5%CAP 0805 SMT X7R
C76		100N 50V 5%CAP 0805 SMT X7R
C77		_47U 16V 20%CAP 6X5.4 SMT ELE
C78		100N 50V 5%CAP 0805 SMT X7R
C79		100N 50V 5%CAP 0805 SMT X7R
C80		_47U 16V 20%CAP 6X5.4 SMT ELE
C81		100N 50V 5%CAP 0805 SMT X7R
C82		__3N3 25V 5%CAP 0805 SMT NPO
C83		100N 50V 5%CAP 0805 SMT X7R
C84		_47U 16V 20%CAP 6X5.4 SMT ELE
C85		100N 50V 5%CAP 0805 SMT X7R
C86		100N 50V 5%CAP 0805 SMT X7R
C102	5242	100N 250V 20%CAP BLK 'X2' 15MM AC
C104	5670	3300U 63V 20%CAP 18X40MM CUT5MM EL
C105	5860	3300U 35V 20%CAP BLK 16X35.5MM EL
C106	5266	680N 250V 20%CAP BLK 'X2' 27MM AC
C111	5860	3300U 35V 20%CAP BLK 16X35.5MM EL
C112	6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC
C115	5670	3300U 63V 20%CAP 18X40MM CUT5MM EL
C118		__2N2 50V 10%CAP 0603 SMT COG
C123	5910	4700U 100V 10%CAP BLK 35X40MM 4PS
D1		MM3Z10VT1G 10V0 0W2 5% SMT ZEN
D2		MM3Z10VT1G 10V0 0W2 5% SMT ZEN
D3		CDSF4148 75V 0A15 1005 SMT
D4		CDSF4148 75V 0A15 1005 SMT
D5		CDSF4148 75V 0A15 1005 SMT
D6		MBRA340T3 40V 3A SHTKY 403D SMT

REF	YS #	Description
D7		MMBZ5231B 5V1 0W35 5% SMT ZEN
D8		MM3Z18VT1G 18V0 0W2 5% SMT ZEN
D9		ES1H 500V 1A0 D214 UPGT 8814
D10		ES1H 500V 1A0 D214 UPGT 8814
D11		MM3Z18VT1G 18V0 0W2 5% SMT ZEN
D48		ES3D 200V 3A0 D214 SMT SMC
D49		CDSF4148 75V 0A15 1005 SMT
D50		CDSF4148 75V 0A15 1005 SMT
D51		ES3D 200V 3A0 D214 SMT SMC
D52		ES3D 200V 3A0 D214 SMT SMC
D53		ES3D 200V 3A0 D214 SMT SMC
D54		ES3D 200V 3A0 D214 SMT SMC
D55		ES3D 200V 3A0 D214 SMT SMC
D56		ES3D 200V 3A0 D214 SMT SMC
D57		ES3D 200V 3A0 D214 SMT SMC
D58		ES3D 200V 3A0 D214 SMT SMC
D59		ES3D 200V 3A0 D214 SMT SMC
D60		ES3D 200V 3A0 D214 SMT SMC
D61		ES3D 200V 3A0 D214 SMT SMC
D62		ES3D 200V 3A0 D214 SMT SMC
D63		ES3D 200V 3A0 D214 SMT SMC
HW1	M1607BLANK	FR4 ONLY 217.23SQIN 168PER YS#4100
HW2	3822	HEATSHRINK 1-1/4"ID BLACK
HW3	3841	5.5" NYLON CABLE TIE
HW4	3841	5.5" NYLON CABLE TIE
J1	4100	XLR MALE PCB MT VERT
J3	6509	1/4"& XLR PCB MT VERT COMBO NEUTRIK
L1		__4.7UH 20% COIL 12MM SMT
L2	6562	_192UH CHOKE 74T20AWG/77256MAGNTKS
L3		__8.2UH COIL 1210 SMT
L5	6492	1300UH COIL COMMON MODE 4AMP
L56		120UH COIL 0R4 10MMSQ SMT
LD2	5907	YEL 3MM LED 1V9 20MA.4SPCER T&R
LD3	5908	GRN 3MM LED 1V9 20MA.4SPCER T&R
LD4	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
P3	4388	100K B LIN 9MM DETENT KNURL P30
P4	4388	100K B LIN 9MM DETENT KNURL P30
P5	4388	100K B LIN 9MM DETENT KNURL P30
PCB1	M1310BLANK	2_OZ 2SD 65.32 SQIN 01PER E10P
Q1		MMBF4391LT1 NCH JFET SOT-23 SMT T&R
Q2		LM317S POS REG SMT TO263
Q4		T810-600G-TR 8A TRIAC D2PAK SMT
Q5		12.288MHZ CRYSTAL 4-PIN SMT
Q6		MMBTA14 NPN DARL SOT-23 SMT
Q8		MMBT3906LT1 PNP SOT-23 SMT T&R
Q9		MMBT5401 PNP SOT-23 SMT
Q10	5190	MBS4992 TO92 8V5 DIAC T&R
R1		W125 4K7 5% 0805 SMT RES
R2		W125 4K7 5% 0805 SMT RES
R3		W125 11K0 1% 0805 SMT RES
R4		W125 11K0 1% 0805 SMT RES
R5		W100 200R 1% 0805 SMT RES
R6		W100 200R 1% 0805 SMT RES
R7		W125 4K7 5% 0805 SMT RES
R8		W100 200R 1% 0805 SMT RES
R9		W125 4K7 5% 0805 SMT RES
R10		W100 12K1 1% 0603 SMT RES
R11		W100 12K1 1% 0603 SMT RES
R12		W100 200R 1% 0805 SMT RES
R13		W125 1K02 0.1% 0805 SMT RES
R14		W125 18K00 0.1% 0805 SMT RES
R15		W125 10K00 0.1% 0805 SMT RES
R16		FUSE SLOW 7A 125V SMT 6125
R17		FUSE SLOW 7A 125V SMT 6125
R18		W125 18K00 0.1% 0805 SMT RES
R19		W125 10K00 0.1% 0805 SMT RES
R20		W125 1K800 0.1% 0805 SMT RES
R21		W125 1M 5% 0805 SMT RES
R22		W125 1K800 0.1% 0805 SMT RES
R23		W125 330R 0.5% 0805 SMT RES
R24		W100 2K32 1% 0805 SMT RES
R25		W125 33K 5% 0805 SMT RES
R26		W250 10R 5% 1206 SMT RES
R27		W125 1K02 0.1% 0805 SMT RES
R28		W125 30K 0.5% 0805 SMT RES
R29		W125 1K800 0.1% 0805 SMT RES
R30		W125 330R 0.5% 0805 SMT RES
R31		W125 10K00 0.1% 0805 SMT RES
R32		1W00 100K 5% 2512 SMT RES
R33		W100 2K32 1% 0805 SMT RES

REF	YS #	Description
R34		W125 33K 5% 0805 SMT RES
R35		W125 1K02 0.1% 0805 SMT RES
R36		W125 330R 0.5% 0805 SMT RES
R37		W125 47R 5% 0805 SMT RES
R38		W125 33K 5% 0805 SMT RES
R39		1W00 100K 5% 2512 SMT RES
R40		W100 475R 1% 0805 SMT RES
R42		W100 100R 1% 0805 SMT RES
R43		W125 4K7 5% 0805 SMT RES
R44		W125 4K7 5% 0805 SMT RES
R45		W125 10K00 0.1% 0805 SMT RES
R46		W125 330R 0.5% 0805 SMT RES
R47		W100 200R 1% 0805 SMT RES
R48		W250 10R 5% 1206 SMT RES
R49		W250 10R 5% 1206 SMT RES
R50		W250 10R 5% 1206 SMT RES
R51		W250 10R 5% 1206 SMT RES
R52		W100 475K 1% 0805 SMT RES
R53		W100 475K 1% 0805 SMT RES
R54		W125 4K7 5% 0805 SMT RES
R55		W125 1K800 0.1% 0805 SMT RES
R57		W250 22R 5% 1206 SMT RES
R58		W125 1K800 0.1% 0805 SMT RES
R59		W125 1M 5% 0805 SMT RES
R60		W100 274K 1% 0805 SMT RES
R62		W250 10R 5% 1206 SMT RES
R63		W125 1K800 0.1% 0805 SMT RES
R64		W125 1K02 0.1% 0805 SMT RES
R65		W100 18K2 1% 0805 SMT RES
R66		W100 475R 1% 0805 SMT RES
R67		W125 1M 5% 0805 SMT RES
R68		W250 10R 5% 1206 SMT RES
R75		W125 33K 5% 0805 SMT RES
R78		W125 4K7 5% 0805 SMT RES
R79		W125 4K7 5% 0805 SMT RES
R80		W125 33K 5% 0805 SMT RES
R81		W125 4K7 5% 0805 SMT RES
R82		W125 4K7 5% 0805 SMT RES
R83		W125 33K 5% 0805 SMT RES
R84		W125 33K 5% 0805 SMT RES
R85		W125 33K 5% 0805 SMT RES
R86		W125 33K 5% 0805 SMT RES
R87		W125 33K 5% 0805 SMT RES
R88		W125 33K 5% 0805 SMT RES
R89		W125 33K 5% 0805 SMT RES
R90		W125 33K 5% 0805 SMT RES
R91		W125 4K7 5% 0805 SMT RES
R92		W125 4K7 5% 0805 SMT RES
R93		W125 4K7 5% 0805 SMT RES
R94		W125 4K7 5% 0805 SMT RES
R95		W125 4K7 5% 0805 SMT RES
R96		W125 4K7 5% 0805 SMT RES
R187		1W00 1K8 5% 2512 SMT RES
R220		W250 10R 5% 1206 SMT RES
S3	3522	DPDT MINI PC VERT SNP ALT
S4	3440	4PDT MINI VERT ALT SWITCH
S8	3522	DPDT MINI PC VERT SNP ALT
U1		SN74AC74DR DUAL FPFLOP SMT IC
U2		AK4620A VSOP-30 CODEC SMT IC
U3		NE5532D DUAL OPAMP SMT SO-8
U4		NE5532D DUAL OPAMP SMT SO-8
U6		LM2671 3V3 REG 0A5 SMT SO8
U7		MC9S08GT60 MICROCNTRLLER SMT QFP44
U8		ADAU1401 28/56 DSP 2AD4DA SMT IC
W1	6535	HEADER SIL (FEMALE) 26 SOCKET
W2		06 CIR DUAL ROW HDR VT 0.1SPC SMT
W3	4145	9PIN 3X3 POWER PIN HEADER
W4	3538	24 PIN BREAKAWAY LOCK .156
W7	2369	3 CIR PH-HEADER 2MM
W7_	2369	3 CIR PH-HEADER 2MM
W12	2329	12 CIR XH-HEADER 0.098IN
W13	2327	6 CIR XH-HEADER 0.098IN
W14	2327	6 CIR XH-HEADER 0.098IN
W15	2329	12 CIR XH-HEADER 0.098IN
W30	4147	6 PIN POWER PIN HEADER MALE POLZED
W34	4147	6 PIN POWER PIN HEADER MALE POLZED



PARTS REFERENCE TABLE

REF DES	M1311 (E10P)	M1496 (PSA1)
P3	4388	DNS
P4	4388	DNS
P5	4388	4459
S4	3440	DNS
LD2	5907	6400
LD3	5908	6408
LD4	5906	6405
X1	4599	DNS
X2	DNS	4599

POTENTIOMETERS/SWITCHES AND KNOBS

MODEL(S):-E10P M1311 .

REF	FUNCTION	POT/SW YS#	KNOB
P3	LEVEL	4388	K
P4	BASS	4388	K
P5	TREBLE	4388	K
S3	LIVE/PLAYBACK	3522	8632
S4	MIC/LINE	3440	8632
S8	SUB IN/SUB OUT	3522	8632
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K

POTENTIOMETERS/SWITCHES AND KNOBS

MODEL(S):-PSA1 M1496 .

REF	FUNCTION	POT/SW YS#	KNOB
P5	LEVEL	4459	8653
S3	LF CUT	3522	8637
S8	HF BOOST	3522	8637
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K

M1311 / M1496 - PCB_DATABASE_HISTORY

MODEL(S):- E10P/PSA1

#	DATE	VER#	DESCRIPTION OF CHANGE
1	17-APR-2011	V04	DERIVED FROM M1311V03
2	16-JUN-2011	.	PC82xx: XH conn DS pads, add PCB title. GG
3	31-OCT-2011	V05	PC8322: CHANGED W7 & W8 to XH CONN. - ML
4		.	PC8318: UPDT YS#7896 - CHANGED 'C56' to 'L56' - ML
5	25-NOV-2011	V05	FORCE UPDATED SMT PARTS - FIXED LAYOUT. - ML
6	11-JAN-2012	.	PC8361: CONSOLIDATED SMT RESISTORS. - ML
7	06-MAR_2012	V06	PC8385: Replace L56 #7896 with #8108 GG
8	D	.	Add SCORE lines on the sides. GG
9	12-JUL-2012	.	PC8458 - Changed P5 from 4435 to 4459 for PSA1. - ML
10	14-AUG-2012	.	PC8461: Breakers changed for PSA1 - ML
11	26-MAR-2013	.	PC8501: Updated fiducials to 50mil diameter. - ML
12	11-OCT-2013	V07	PC8578 & 8580: Replaced J3 and J4 XLR jacks. - ML
13	20-JAN-2015	V08	PC8734:Implemented on board.
14	06-JUN-1017	.	PC9015: Change R1 and R2 to 7K5 YS#7822

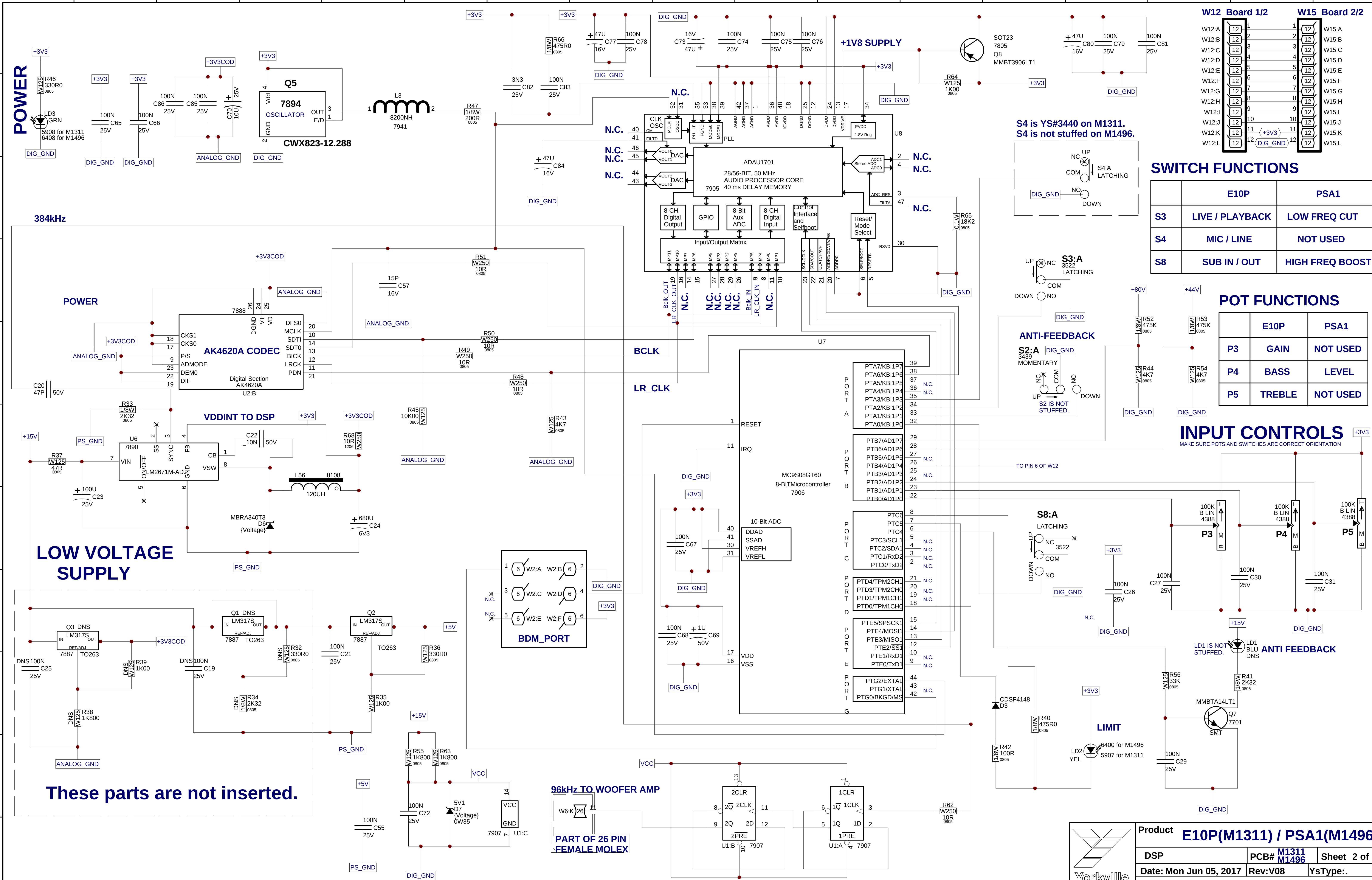
Yorkville

Product **E10P(M1311) / PSA1(M1496)**

INPUT/DSP | PCB# M1311 M1496 | Sheet 1 of 3

Date: Mon Jun 05, 2017 | Rev:V08 | YsType:.

Filename: X8019V08SCH.sch2006



SWITCH FUNCTIONS

	E10P	PSA1
S3	LIVE / PLAYBACK	LOW FREQ CUT
S4	MIC / LINE	NOT USED
S8	SUB IN / OUT	HIGH FREQ BOOST

POT FUNCTIONS

	E10P	PSA1
P3	GAIN	NOT USED
P4	BASS	LEVEL
P5	TREBLE	NOT USED

Yorkville

Product E10P(M1311) / PSA1(M1496)

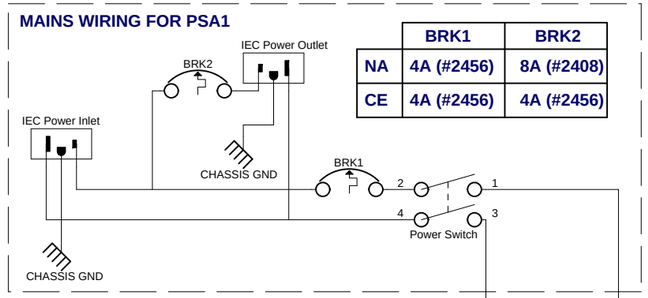
DSP | PCB# M1311 M1496 | Sheet 2 of 3

Date: Mon Jun 05, 2017 | Rev:V08 | YsType:.

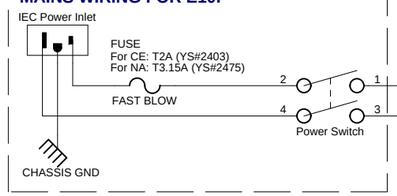
Filename: X8019V08SCH.sch2006

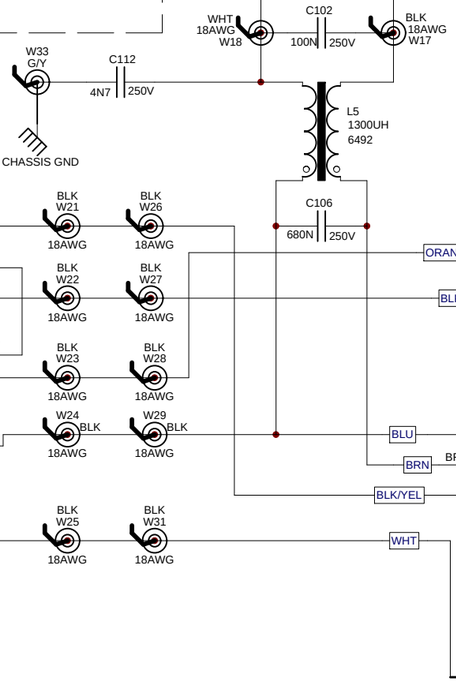
MAINS WIRING FOR PSA1

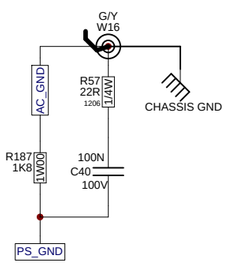
	BRK1	BRK2
NA	4A (#2456)	8A (#2408)
CE	4A (#2456)	4A (#2456)



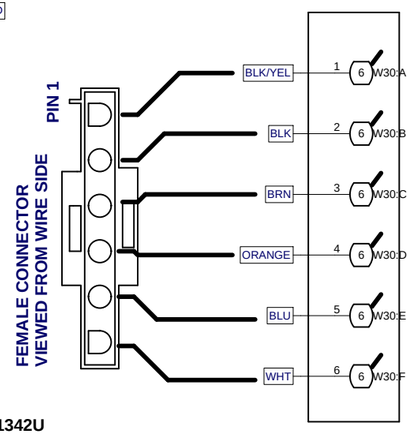
MAINS WIRING FOR E10P





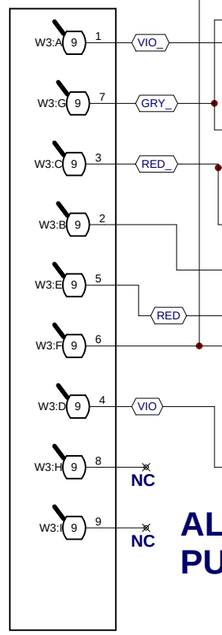


PCB MALE CONNECTORS



E10P: CH1342U
PSA1: CH1341U

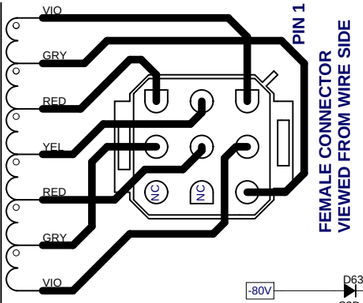
MALE 9 PIN CONNECTOR FOR TRANSFORMER SECONDARYS

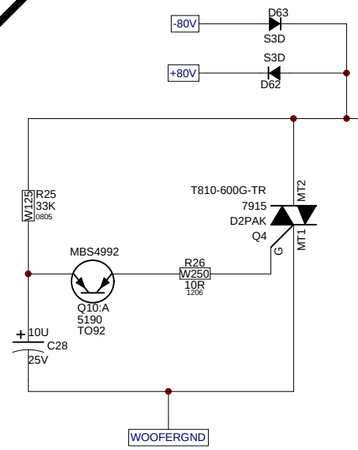


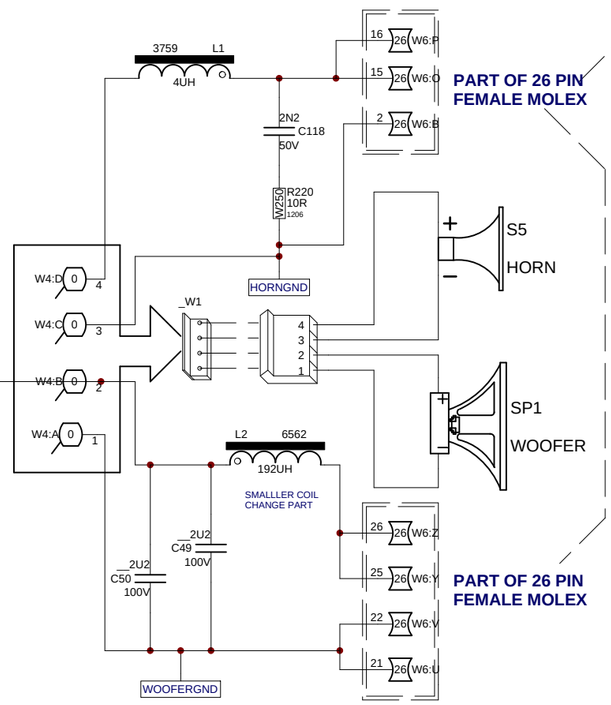
MUTE ON/OFF

ALL DIODES S3D 200V 3A0 DIO D214 SMT
PUT PADS UNDER HIGH CURRENT AND ALTERNATE

26 PIN FEMALE HEADER TO POWER AMPS





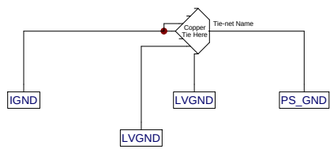


PART OF 26 PIN FEMALE MOLEX

PART OF 26 PIN FEMALE MOLEX

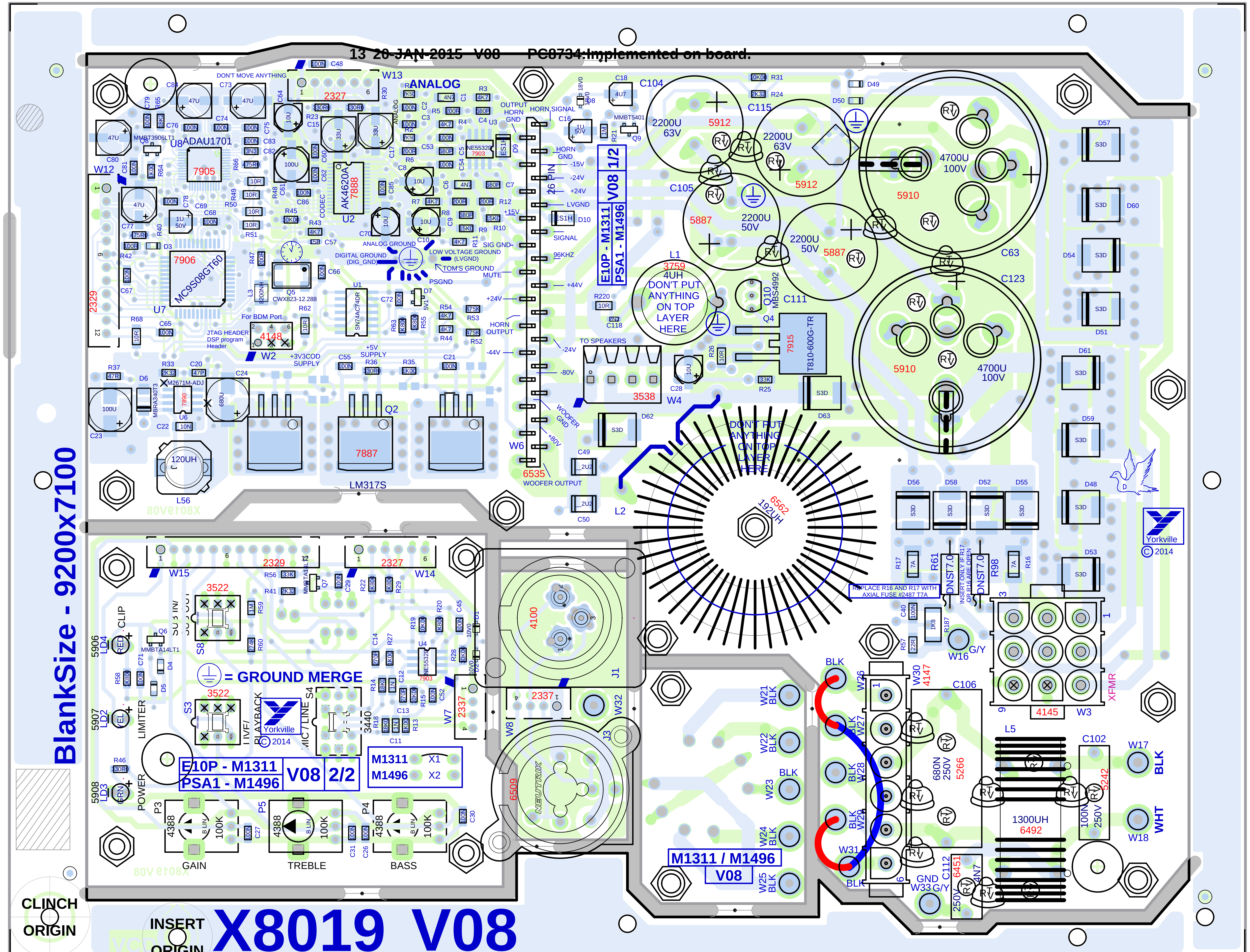
OUTPUT

SP1
WOOFER



Yorkville

Product **E10P(M1311) / PSA1(M1496)**		
POWER SUPPLY	PCB# M1311 M1496	Sheet 3 of 3
Date: Mon Jun 05, 2017	Rev:V08	YsType:.
Filename: X8019V08SCH.sch2006		



M1311 V08 ↓ SEE PRODUCTION NOTES ↓ E10P

SEE LAYOUT DIAGRAM

M1311 V08 PRODUCTION NOTES

1. B.A. STUFF X1 FIRST.
2. B.A. ADD RTV BETWEEN C106, C112 AND W30 THE POWER CONNECTOR
3. B.A. ADD RTV UNDER J3 XLR.
4. B.A. DO NOT STUFF S2 AND LD1.
5. B.A. ADD YS#3822 1.25" HEATSHRINK AROUND J3
6. B.A. DO NOT STUFF S6
7. B.A. FOR N.A. BOARDS ADD 18AWG JUMPER FROM W26 TO W27 AND FROM W29 TO W31
8. B.A. FOR CE BOARDS ADD 18AWG JUMPER FROM W27 TO W31
9. PCBSA: DO NOT BREAK OUT BOARD BEFORE TESTING
10. PCBSA: ADD M1607 CLIP TO YS#4100 XLR WITH RTV AS SHOWN.

X8019 PARTS REFERENCE TABLE

REF DES	M1311 (E10P)	M1496 (PSA1)
P3	4388	DNS
P4	4388	DNS
P5	4388	4459
S4	3440	DNS
LD2	5907	6400
LD3	5908	6408
LD4	5906	6405
X1	4599	DNS
X2	DNS	4599

SEE PRODUCTION NOTES

POTENTIOMETERS/SWITCHES AND KNOBS

MODEL(S):-E10P M1311 .

REF	FUNCTION	POT/SW YS#	KNOB
P3	LEVEL	4388	K
P4	BASS	4388	K
P5	TREBLE	4388	K
S3	LIVE/PLAYBACK	3522	8632
S4	MIC/LINE	3440	8632
S8	SUB IN/SUB OUT	3522	8632
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K
R	F	P	K

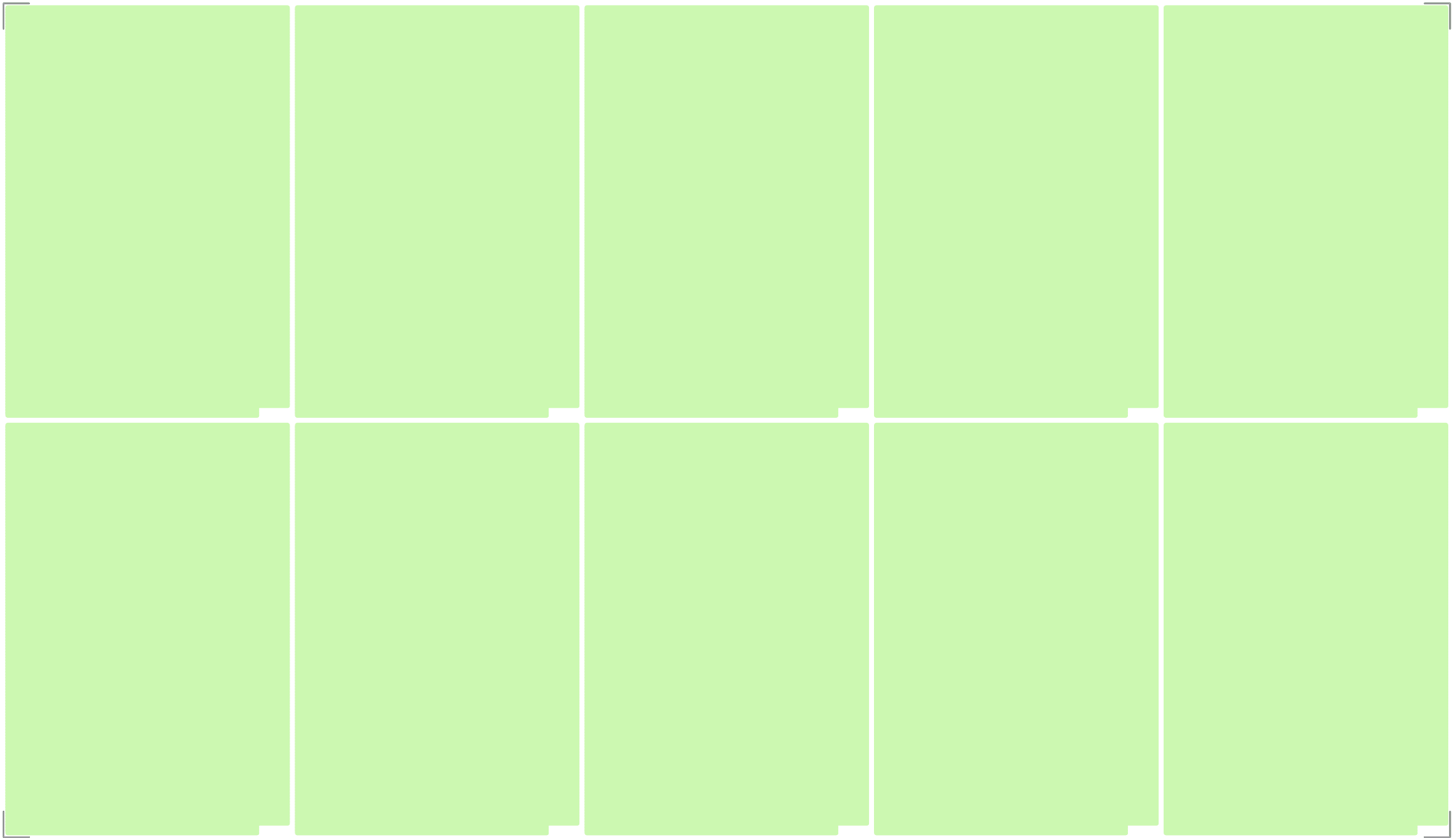
M1311 - PCB_DATABASE_HISTORY

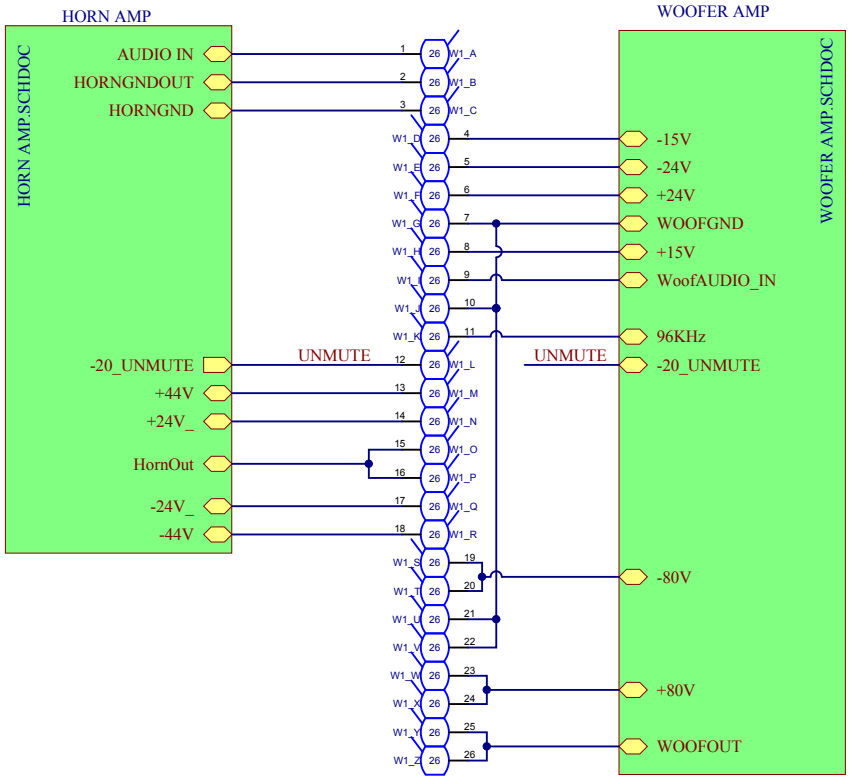
MODEL(S):- E10P

#	DATE	VER#	DESCRIPTION OF CHANGE
1	17-APR-2011	V04	DERIVED FROM M1311V03. PC 8242
2	16-JUN-2011	.	PC82xx: XH conn DS pads, add PCB title. GG
3	31-OCT-2011	V05	PC8322: CHANGED W7 & W8 TO XH CONN. - ML
4	.	.	PC8318: UPDT YS#7896 - CHANGED 'C56' to 'L56' - ML
5	25-NOV-2011	V05	FORCE UPDATED SMT PARTS - FIXED LAYOUT. - ML
6	11-JAN-2012	.	PC8361: CONSOLIDATED SMT RESISTORS. - ML
7	06-MAR_2012	V06	PC8385: Replace L56 #7896 with #8108 GG
8	D	.	Add SCORE lines on the sides GG
9	12-JUL-2012	.	PC8458 - Changed P5 from 4435 to 4459 for PSA1. - ML
10	14-AUG-2012	.	PC8461: Breakers changed for PSA1 - ML
11	26-MAR-2013	.	PC8501: Updated fiducials to 50mil diameter. - ML
12	11-OCT-2013	V07	PC8578 & 8580: Replaced J3 and J4 XLR jacks. - ML
13	20-JAN-2015	V08	PC8734:Implemented on board.
14	06-JUN-1017	.	PC9015: Change R1 and R2 to 7K5 YS#7822

M1312 E10P Shield

BlankSize=11300x6520

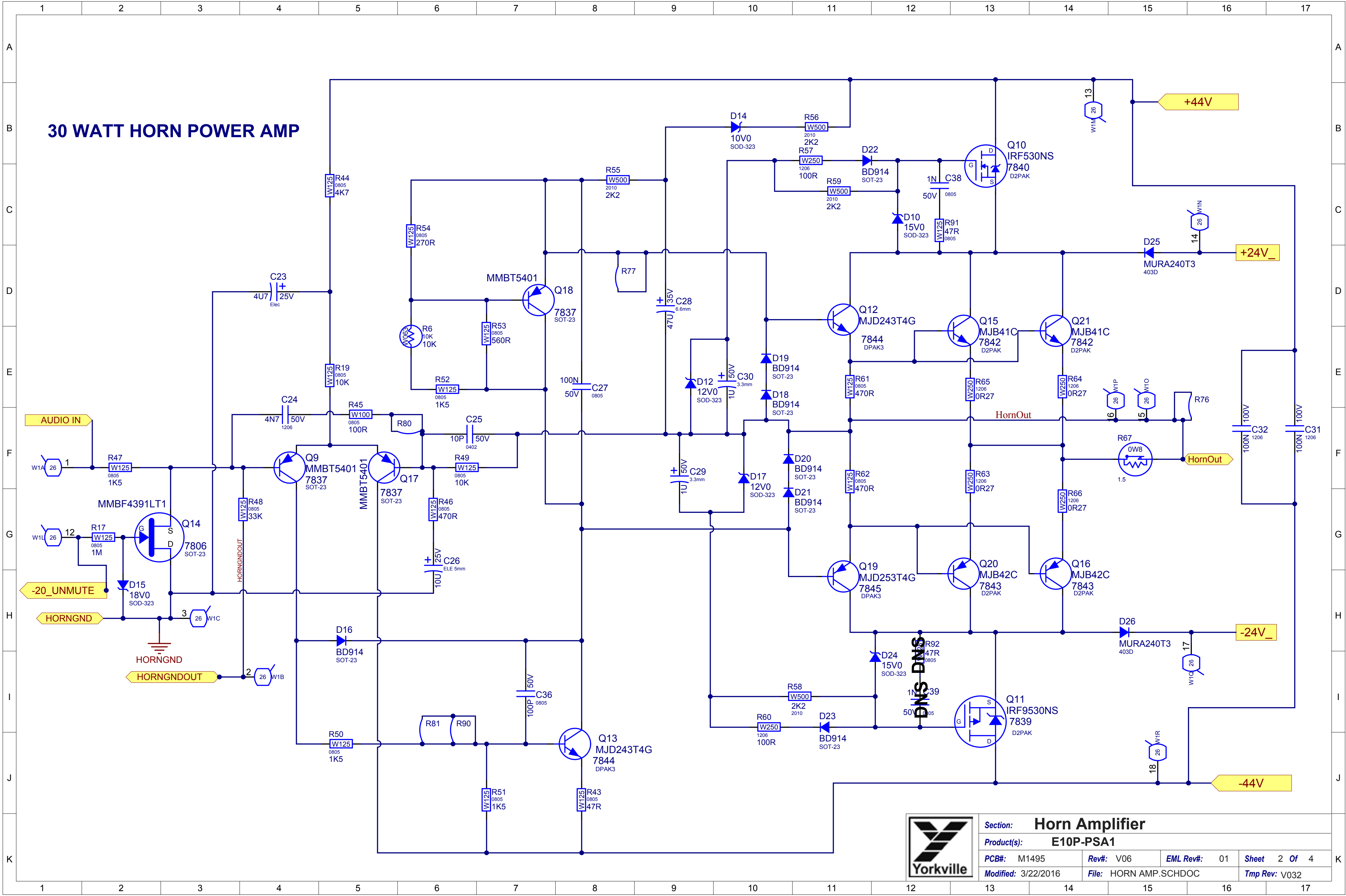




ECO
ECO.SCHDOC

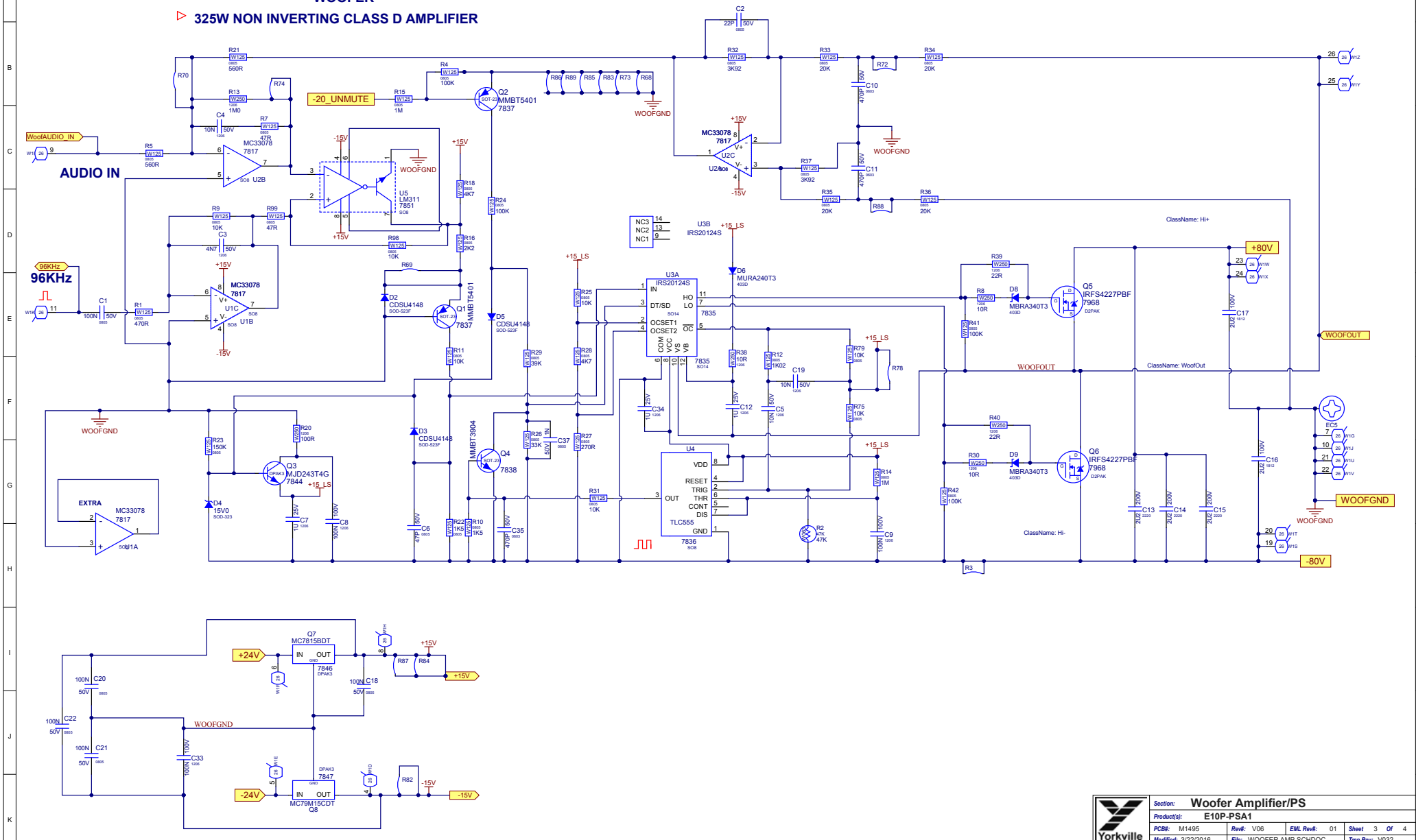
Yorkville
Website

Product(s):	E10P-PSA1			
Description:	Powered speaker cabinet			
PCB#: M1495	Rev#: V06	EML Rev#: 01	Sheet 1 Of 4	
Modified: 3/22/2016	File: Top Sheet.SchDoc		Tmp Rev: V032	


30 WATT HORN POWER AMP
+44V
+24V_
-24V_
-44V
AUDIO IN
-20_UNMUTE
HORNGND
HORNGNDOUT
HornOut
Q9 MMBT5401 7837 SOT-23
Q17 MMBT5401 7837 SOT-23
Q18 MMBT5401 7837 SOT-23
Q14 MMBF4391LT1 7806 SOT-23
Q13 MJD243T4G 7844 DPAK3
Q12 MJD243T4G 7844 DPAK3
Q19 MJD253T4G 7845 DPAK3
Q15 MJB41C 7842 D2PAK
Q21 MJB41C 7842 D2PAK
Q20 MJB42C 7843 D2PAK
Q16 MJB42C 7843 D2PAK
Q10 IRF530NS 7840 D2PAK
Q11 IRF9530NS 7839 D2PAK
D14 10V0 SOD-323
D22 BD914 SOT-23
D10 15V0 SOD-323
D25 MURA240T3 403D
D19 BD914 SOT-23
D18 BD914 SOT-23
D12 12V0 SOD-323
D17 12V0 SOD-323
D20 BD914 SOT-23
D21 BD914 SOT-23
D15 18V0 SOD-323
D16 BD914 SOT-23
D24 15V0 SOD-323
D23 BD914 SOT-23
D26 MURA240T3 403D
R44 W125 0805 4K7
R19 W125 0805 10K
R47 W125 0805 1K5
R17 W125 0805 1M
R48 W125 0805 33K
R45 W100 0805 100R
R80
R49 W125 0805 10K
R46 W125 0805 470R
R54 W125 0805 270R
R6 W063 10K 10K
R53 W125 0805 560R
R52 W125 0805 1K5
R55 W500 2010 2K2
R77
R56 W500 2010 2K2
R57 W250 1206 100R
R59 W500 2010 2K2
R91 W125 47R 0805
R61 W125 0805 470R
R62 W125 0805 470R
R65 W250 1206 0R27
R63 W250 1206 0R27
R64 W250 1206 0R27
R66 W250 1206 0R27
R67 0W8 1.5
R76
R50 W125 0805 1K5
R51 W125 0805 1K5
R43 W125 0805 47R
R81
R90
R58 W500 2K2 2010
R60 W250 1206 100R
R92 47R 0805
C23 4U7 25V Elec
C24 4N7 50V 1206
C25 10P 50V 0402
C26 25V 10U ELE 5mm
C27 100N 50V 0805
C28 35V 47U 6.6mm
C29 50V 1U 3.3mm
C30 50V 1U 3.3mm
C36 50V 100P 0805
C38 1N 50V 0805
C39 1N 50V 0805
DNS DNS
C32 100V 100N 1206
C31 100V 100N 1206
W1A 26 1
W1L 26 12
W1C 26 3
W1B 26 2
W1M 26 13
W1N 26 14
W1P 26 16
W1O 26 15
W1Q 26 17
W1R 26 18
HORNGNDOUT
Section: Horn Amplifier
Product(s): E10P-PSA1
PCB#: M1495
Rev#: V06
EML Rev#: 01
Sheet 2 Of 4
Modified: 3/22/2016
File: HORN AMP.SCHDOC
Tmp Rev: V032
Yorkville

WOOFER

325W NON INVERTING CLASS D AMPLIFIER



Yorkville	Section:	Woofer Amplifier/PS			
	Product(s):	E10P-PSA1			
	PCB#: M1495	Rev#: V06	EML Rev#: 01	Sheet 3 Of 4	
	Modified: 3/22/2016	File: WOOFER AMP.SCHDOC		Tmp Rev: V032	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	2015-06-24	V05	8782	Translate V04 PCAD to AD. PC#8782 added C38,39. Moved D10,14,R58.
2	.	.	.	Moved D4 up 6mil. Changed all D0704 footprints to SOD-523F.
3	2015-08-27	V06	8817	Add 47R 0805 #7854 in series with C38 and C39 GG
4	.	.	.	Replace all #7613 with #5979 GG
5	.	.	.	Increase board width by 10mil each side GG
6	22-MAR-2016	.	8818	#7613 100n 25V replaced with #5979 100n 50V
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

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

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
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4	.	.	.	.
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12	.	.	.	.
13	.	.	.	.

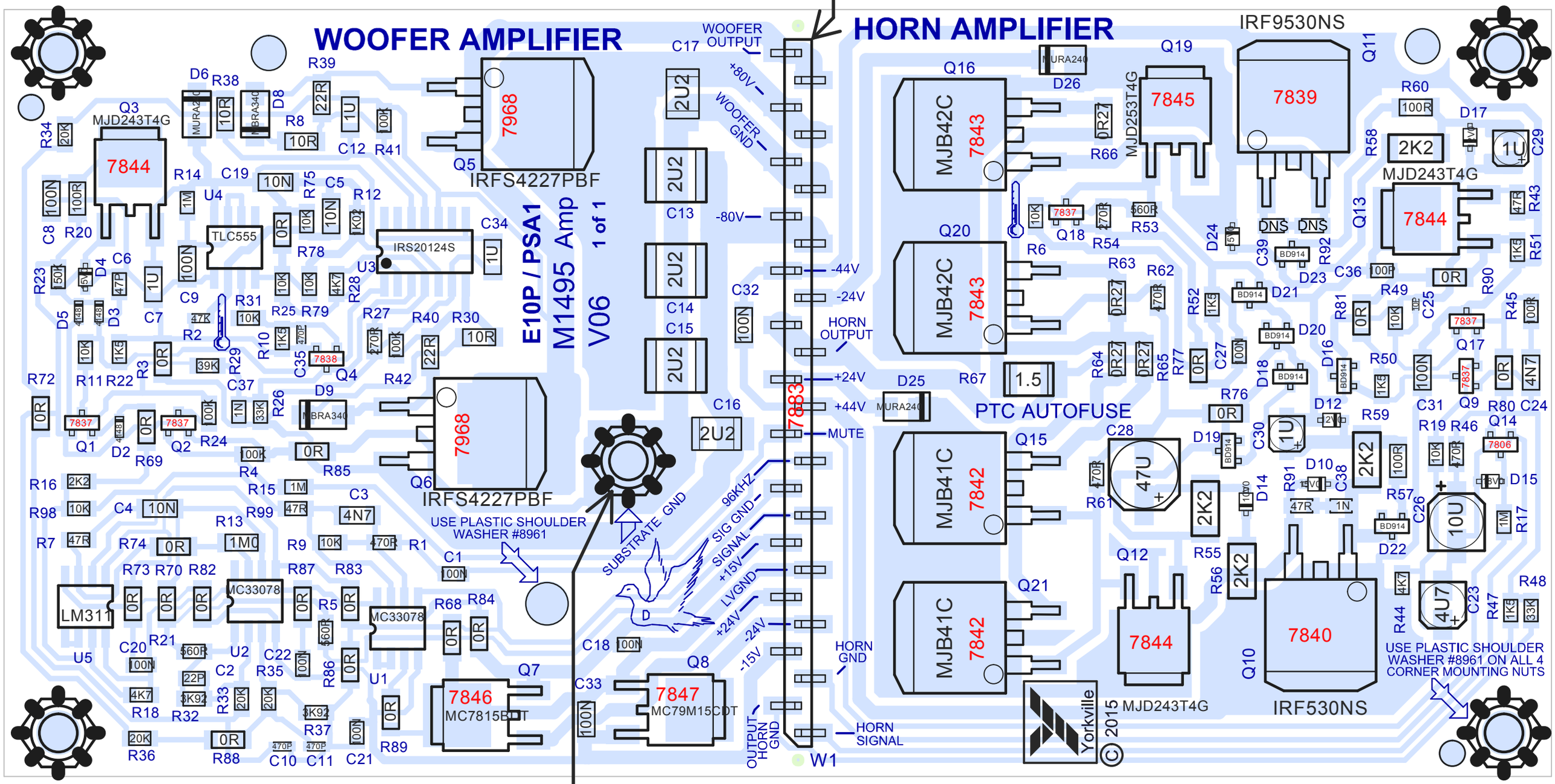
POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS

Yorkville

Section: Design Information And History
Product(s): E10P-PSA1
PCB#: M1495 | Rev#: V06 | EML Rev#: 01 | Sheet 4 Of 4
Modified: 3/22/2016 | File: History.SchDoc | Tmp Rev: V032

HAND PLACE W1 BEFORE REFLOW OVEN



M1495 V06

8701 + 8877 SEE NOTE 1.

E10P / PSA1

PANEL INFO

BlankSize - 6250x11750
# of boards per panel: 4
Step & Repeat: X4@2.820Y1@0.0

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. PLACE GROUNDING SCREW (#8877) AND NUT (#8701) IN SUBSTRATE GND HOLE AFTER REFLOW OVEN.

PCB HARDWARE

SCREWS AND BOLTS

8877

8701

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

Yorkville	*Section:* **Assembly Documentation**				
	Product(s): **E10P / PSA1**				
	PCB#: M1495	*Rev#:* V06	*EML Rev#:* 01	*Sheet* 1 *Of* *	
	Modified: 8/28/2015	*File:* Assembly.SchDoc		*Tmp Rev:* V032	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	2015-06-24	V05	8782	Translate V04 PCAD to AD. PC#8782 added C38,39. Moved D10,14,R58.
2	.	.	.	Moved D4 up 6mil. Changed all D0704 footprints to SOD-523F.
3	2015-08-27	V06	8817	Add 47R 0805 #7854 in series with C38 and C39 GG
4	.	.	.	Replace all #7613 with #5979 GG
5	.	.	.	Increase board width by 10mil each side GG
6	.	.	.	.
7	.	.	.	.
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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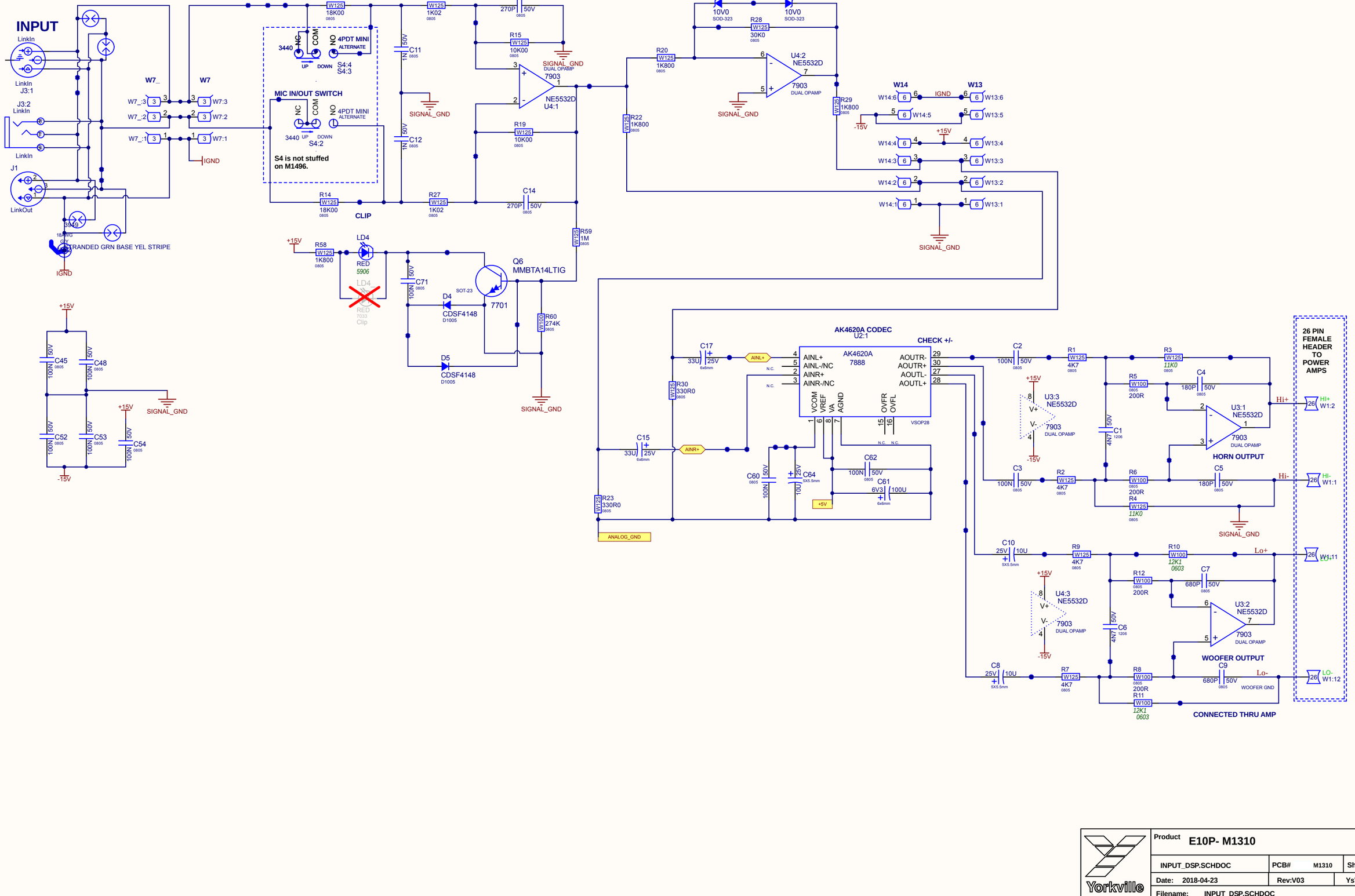
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS

Yorkville

Section:	Design Information And History		
Product(s):	E10P / PSA1		
PCB#: M1495	Rev#: V06	EML Rev#: 01	Sheet 4 Of 4
Modified: 8/28/2015	File: History.SchDoc		Tmp Rev: V032



Yorkville	Product	E10P- M1310	
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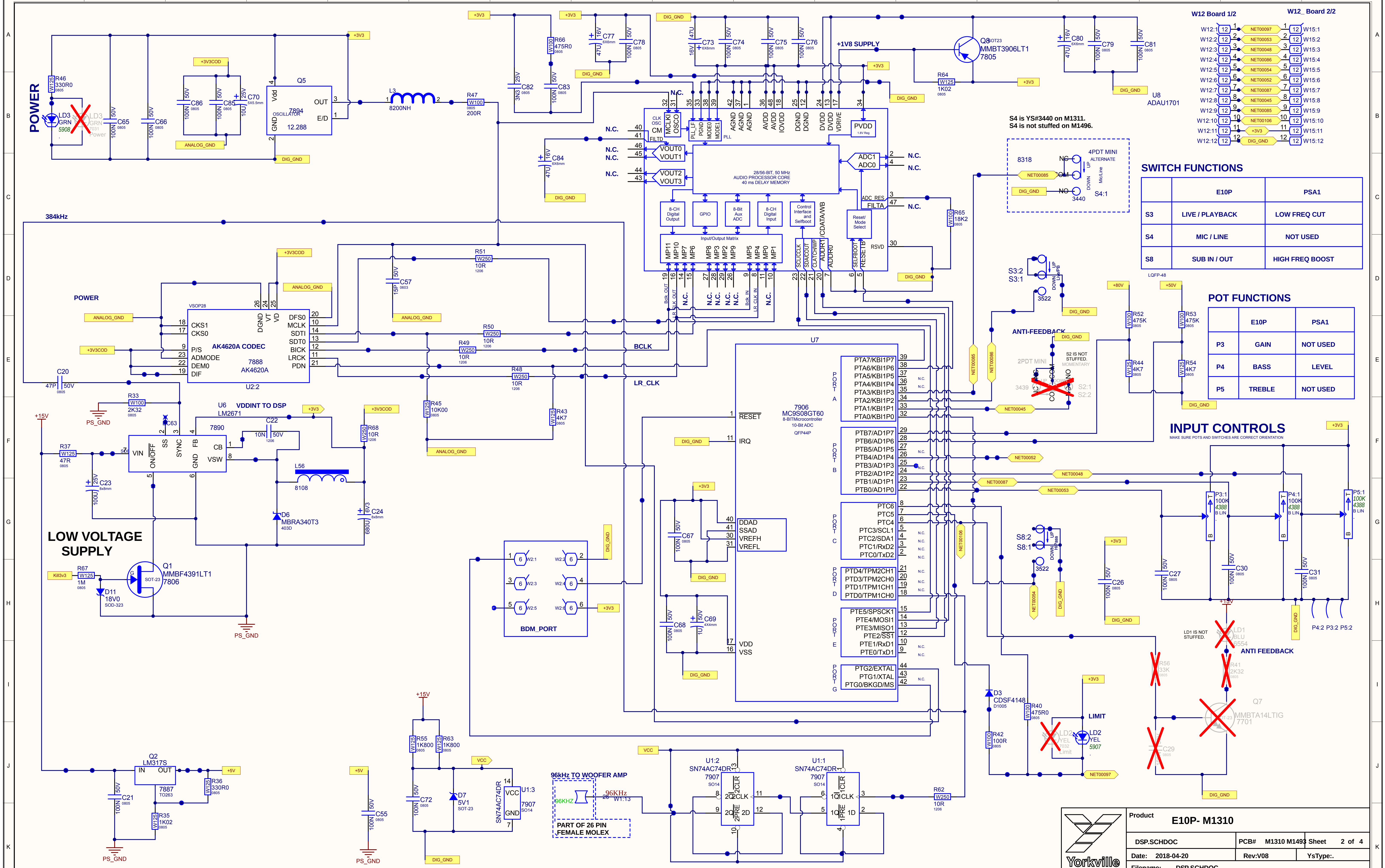
	Date: 2018-04-23	Rev:V03	YsType:.
	Filename: INPUT_DSP.SCHDOC		



SWITCH FUNCTIONS

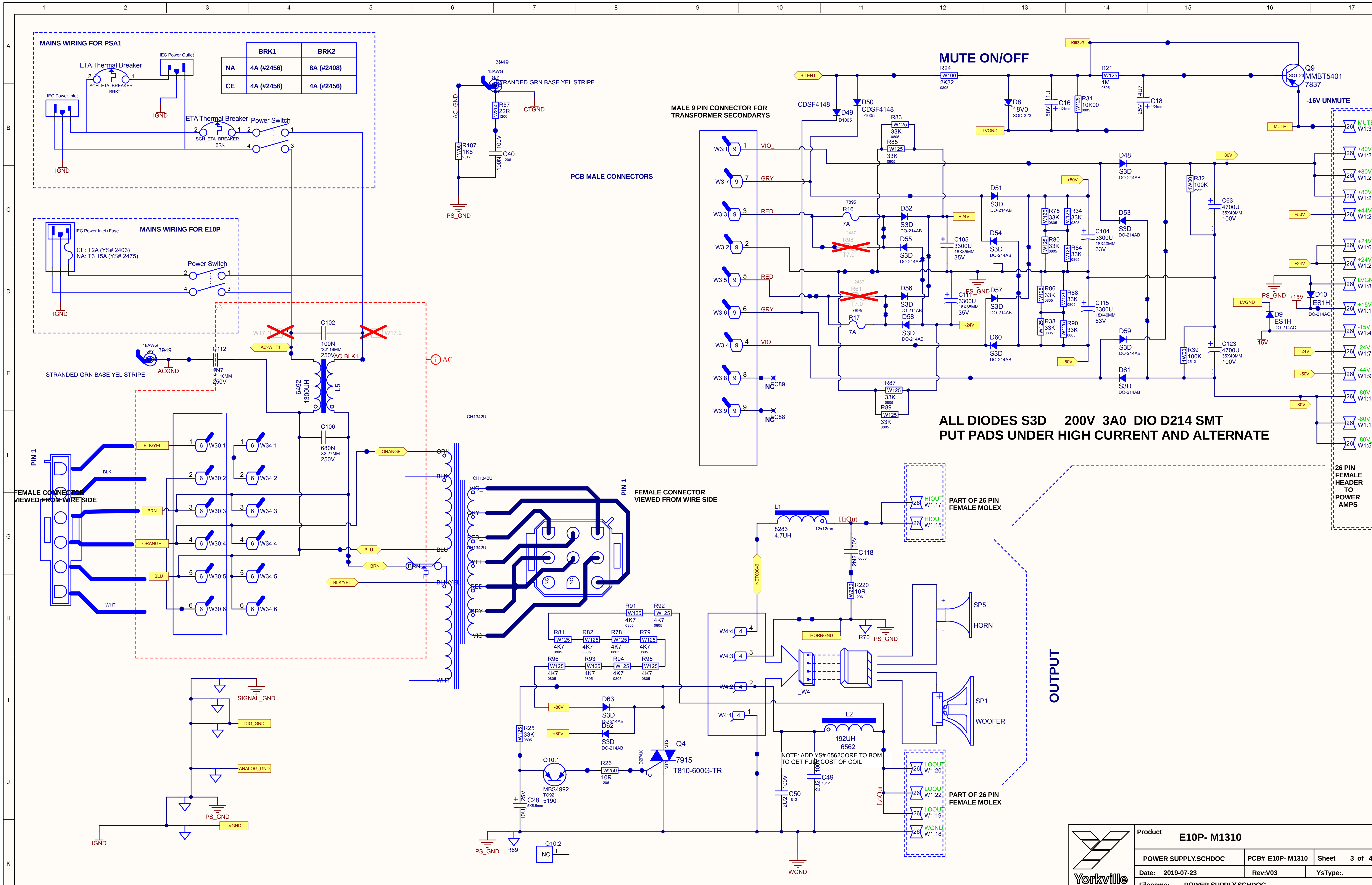
	E10P	PSA1
S3	LIVE / PLAYBACK	LOW FREQ CUT
S4	MIC / LINE	NOT USED
S8	SUB IN / OUT	HIGH FREQ BOOST

POT FUNCTIONS

	E10P	PSA1
P3	GAIN	NOT USED
P4	BASS	LEVEL
P5	TREBLE	NOT USED

Product	E10P- M1310
DSP.SCHDOC	PCB# M1310 M1493
Sheet	2 of 4
Date:	2018-04-20
Rev:	V08
YsType:	.
Filename:	DSP.SCHDOC

Yorkville


MAINS WIRING FOR PSA1
ETA Thermal Breaker
IEC Power Outlet
IEC Power Inlet
SCH_ETA_BREAKER BRK2
SCH_ETA_BREAKER BRK1
Power Switch
IGND
BRK1
BRK2
NA
4A (#2456)
8A (#2408)
CE
4A (#2456)
4A (#2456)
MAINS WIRING FOR E10P
IEC Power Inlet+Fuse
CE: T2A (YS# 2403)
NA: T3 15A (YS# 2475)
3949
18AWG G/Y
STRANDED GRN BASE YEL STRIPE
AC_GND
CTGND
PS_GND
R57 22R
R187 1K8
C40 100N 100V
ACGND
C112 4N7 250V
C102 100N 250V
AC-WHT1
AC-BLK1
AC
6492 1300UH
L5
C106 680N 250V
CH1342U
PCB MALE CONNECTORS
MALE 9 PIN CONNECTOR FOR TRANSFORMER SECONDARIES
VIO
GRY
RED
PIN 1
FEMALE CONNECTOR VIEWED FROM WIRE SIDE
BLK/YEL
BLK
BRN
ORANGE
BLU
WHT
MUTE ON/OFF
SILENT
Kill3v3
Q9 MMBT5401 7837
-16V UNMUTE
MUTE
LVGND
CDSF4148
D49
D50
D8 18V0
C16
R31 10K00
C18
R21 1M
R24 2K32
R83 33K
R85 33K
R16 7A
R17 7A
R98
R61
D48 S3D
D51 S3D
D52 S3D
D53 S3D
D54 S3D
D55 S3D
D56 S3D
D57 S3D
D58 S3D
D59 S3D
D60 S3D
D61 S3D
C104 3300U 63V
C105 3300U 35V
C111 3300U 35V
C115 3300U 63V
C63 4700U 100V
C123 4700U 100V
R32 100K
R39 100K
D9 ES1H
D10 ES1H
R87 33K
R89 33K
NC
C89
C88
ALL DIODES S3D 200V 3A0 DIO D214 SMT
PUT PADS UNDER HIGH CURRENT AND ALTERNATE
+80V
+50V
+44V
+24V
+15V
-15V
-24V
-44V
-50V
-80V
26 PIN FEMALE HEADER TO POWER AMPS
L1 8283 4.7UH
HiOut
C118 2N2 50V
R220 10R
PART OF 26 PIN FEMALE MOLEX
SP5 HORN
SP1 WOOFER
HORNGND
R70
L2 192UH 6562
NOTE: ADD YS# 6562CORE TO BOM TO GET FULL COST OF COIL
C49
C50
LoOut
OUTPUT
WGND
R91 4K7
R92 4K7
R81 4K7
R82 4K7
R78 4K7
R79 4K7
R96 4K7
R93 4K7
R94 4K7
R95 4K7
D63 S3D
D62 S3D
Q4 7915 T810-600G-TR
R26 10R
Q10:1 MBS4992 5190
R25 33K
C28 10U 25V
R69
Q10:2
SIGNAL_GND
DIG_GND
ANALOG_GND
LVGND
Product
E10P- M1310
POWER SUPPLY.SCHDOC
PCB# E10P- M1310
Sheet 3 of 4
Date: 2019-07-23
Rev:V03
YsType:.
Filename: POWER SUPPLY.SCHDOC
Yorkville

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	04-OCT-2017	V02	.	RELEASED VERSION 2.
2	12-OCT-2017	.	.	Created new variant list showing parts with different values.
3	18-APR-2018	V03	9162	Added bleeder resistors to +/-24v and woofer output.
4	.	.	9163	Add more vias to 80V net
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P3	LEVEL	4388	P30	.
P4	.	4388	.	.
P5	.	4388	.	.
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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):	E10P		
PCB#: M1310	Rev#: V03	EML Rev#: 01	Sheet 4 Of 4
Modified: 2019-07-24	File: M1310_History.SchDoc		Tmp Rev: V031

2oz Copper

Into Wave

BlankSize - 233.0mmX180.0mm(9170x7090)

W13 ANALOGUE

DON'T MOVE ANYTHING

W1

E10P- M1310 V03 1/3

E10P- M1310 V03 2/3

E10P- M1310 V03 3/3

= GROUND MERGE

DON'T PUT ANYTHING ON TOP LAYER HERE 6562

TO SPEAKERS

Yorkville © 2016

Yorkville © 2017

S/N LABEL

For M1310 solder AC wires here See ASSY Page

BLK

WHT

CLINCH

ORIGIN

VCD

E10P- M1310 V03

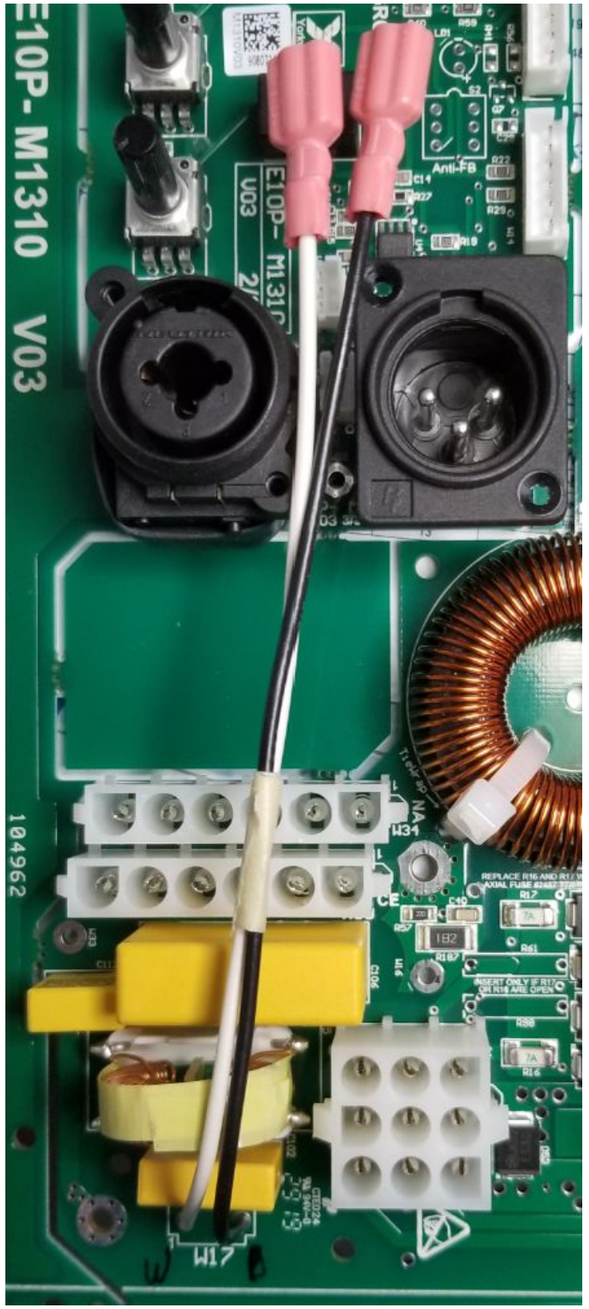
79mil(2mm) Rad ~ 4 PLACES

PCB ASSEMBLY DOCUMENTATION

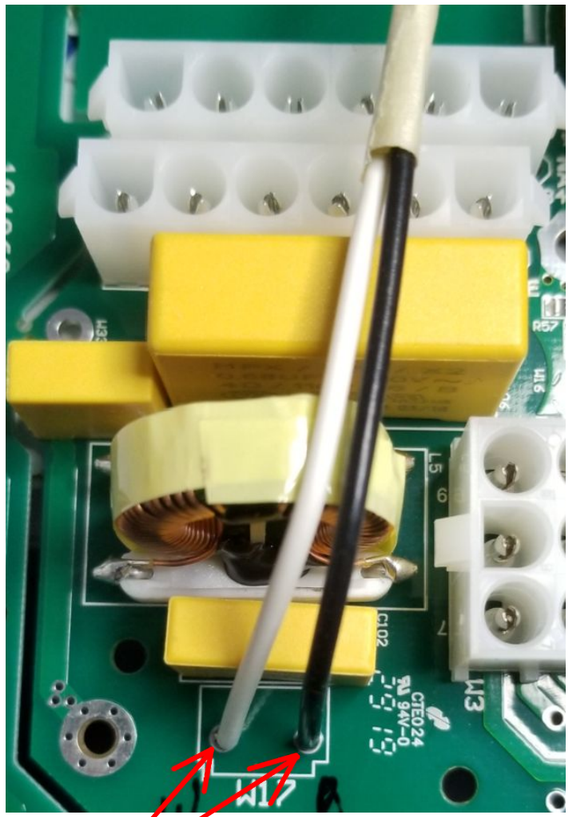
SPECIAL PRODUCTION NOTES

- ADD RTV BETWEEN C106, C112 AND W30 THE POWER CONNECTOR
- ADD YS#3822 1.25" HEATSHRINK AROUND J3
- PCBSA: DO NOT BREAK OUT BOARD BEFORE TESTING
- PCBSA: ADD M1607 CLIP TO YS#4100 XLR WITH RTV AS SHOWN.

RefDes	M1310
C29	DNS
LD1	DNS
LD2	5907
LD3	5908
LD4	5906
P3	Place Part
P4	Place Part
P5	4388 - 100K
Q7	DNS
R3	11K0
R4	11K0
R10	12K1
R11	12K1
R41	DNS
R56	DNS
R61	DNS
R98	DNS
S2	DNS
S4	Place Part
W17	DNS



PCB HARDWARE



SOLDER AC WIRES HERE

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

Yorkville

Section: Assembly Documentation				
Product(s): E10P				
PCB#: M1310	Rev#: V03	EML Rev#: 01	Sheet 1 Of *	
Modified: 2020-01-10	File: Assembly_M1310.SchDoc		Tmp Rev: V031	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	04-OCT-2017	V02	.	RELEASED VERSION 2.
2	12-OCT-2017	.	.	Created new variant list showing parts with different values.
3	18-APR-2018	V03	9162	Added bleeder resistors to +/-24v and woofer output.
4	.	.	9163	Add more vias to 80V net
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P3	LEVEL	4388	P30	.
P4	.	4388	.	.
P5	.	4388	.	.
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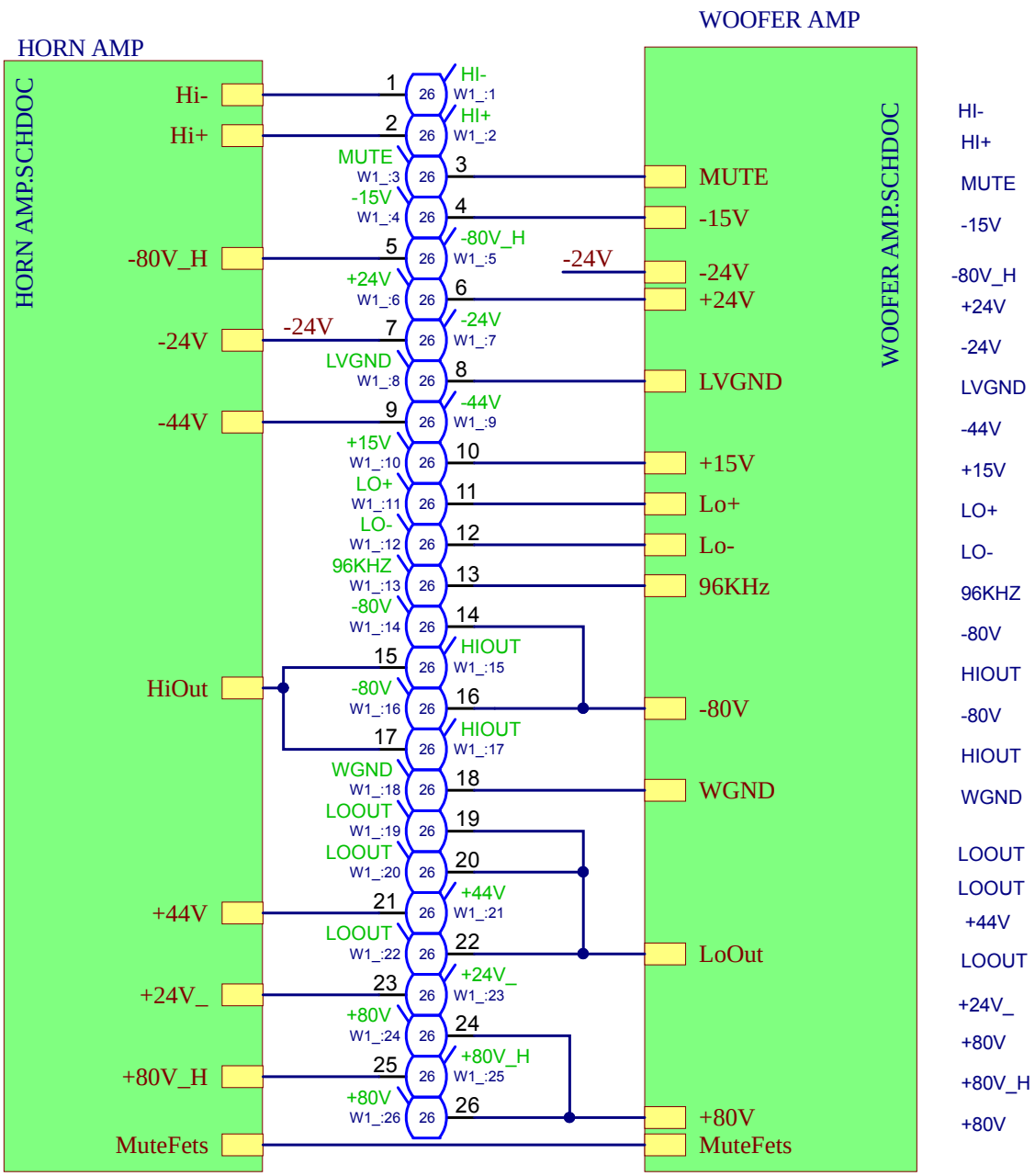
PINOUT DIAGRAMS

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

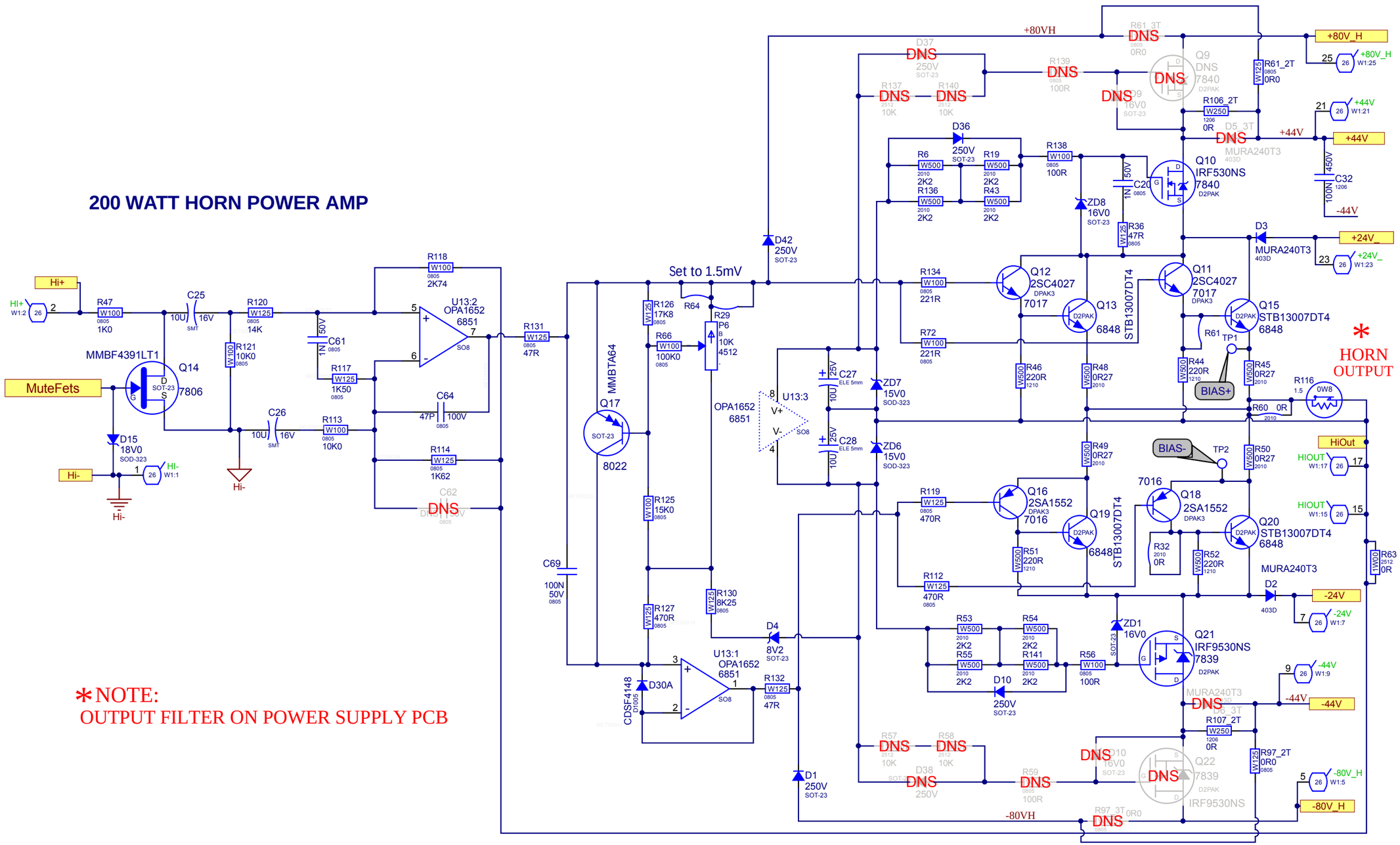
Yorkville

Section:	Design Information And History		
Product(s):	E10P		
PCB#: M1310	Rev#: V03	EML Rev#: 01	Sheet 4 Of 4
Modified: 2020-01-10	File: M1310_History.SchDoc		Tmp Rev: V031



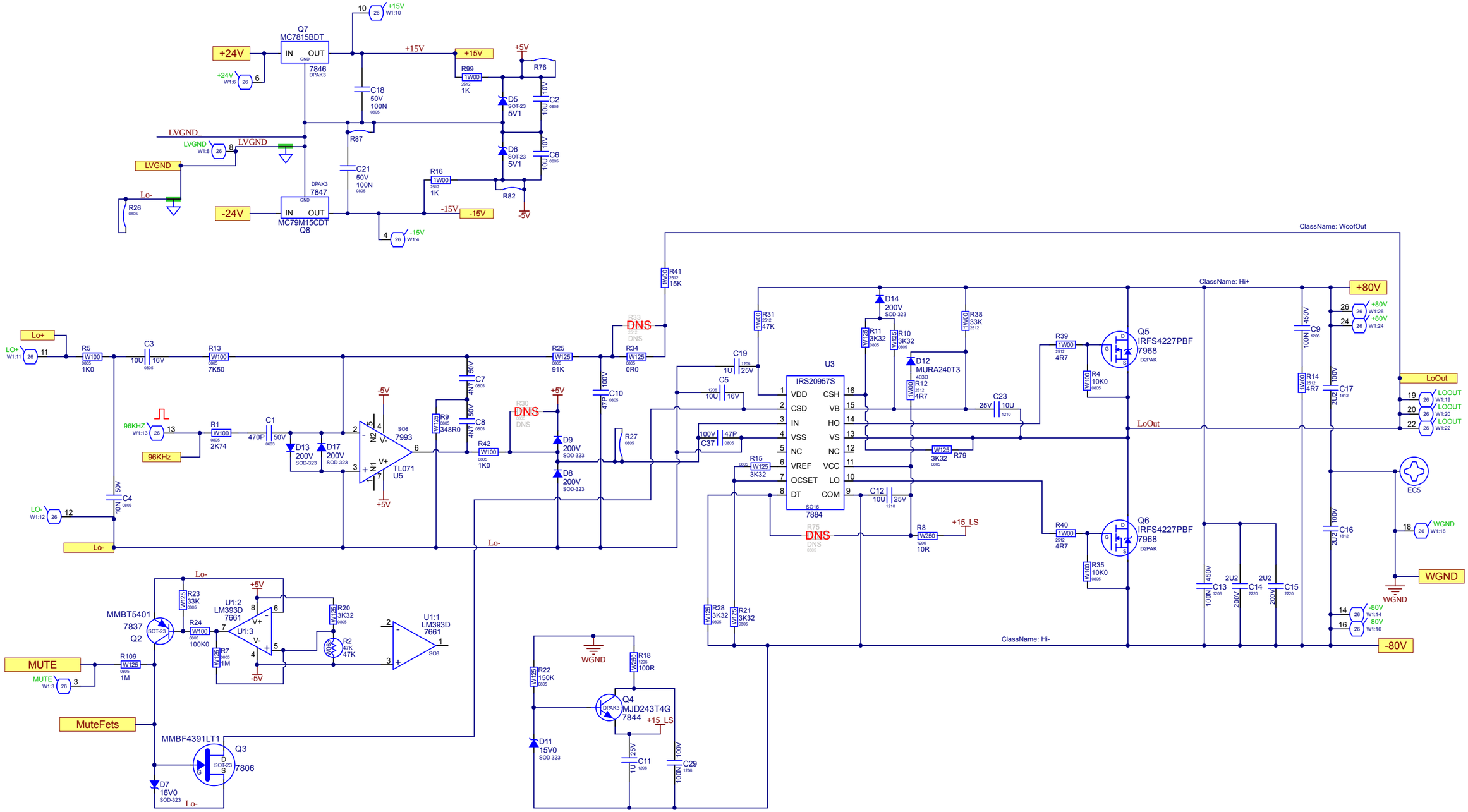
Product(s): EF10P-E10P				
Description: **Powered speaker cabinet**				
PCB#: M1501	Rev#: V05	EML Rev#: 01	Sheet 1 Of 5	
Modified: 2020-02-03	File: Top Sheet.SchDoc		Tmp Rev: V032	

200 WATT HORN POWER AMP



*NOTE:
OUTPUT FILTER ON POWER SUPPLY PCB

Yorkville	Section: Horn Amplifier				
	Product(s): . EF10P-E10P				
	PCB#: M1501	Rev#: V05	EML Rev#: 01	Sheet 2 Of 5	
	Modified: 2020-02-03	File: HORN AMP.SCHDOC		Tmp Rev: V032	



Yorkville	Section:	Woofer Amplifier/PS			
	Product(s):	EF10P-E10P			
	PCB#: M1501	Rev#: V05	EML Rev#: 01	Sheet 3 Of 5	
	Modified: 2020-02-03	File: WOOFER AMP.SCHDOC		Tmp Rev: V032	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	OCT-4-2017	V02	.	RELEASED VERSION 2.
2	APR-27-2018	V03	9129	MOVED R61_3T AWAY FROM 80V CONNECTOR PAD
3	Aug-08-2019	V04	9449	C12&C23 to 10U/25V. Change VBE res to center trim pot. Add D4 to cut turn off noise.
4	FEB-03-2020	V05	9508	Added 1N cap and 47R resistor between gate and source of Q10
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POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS

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

Amp 1 of 1 V05
EF12/15/215P
PSA1-SA102/153
M1501 V05
EF10P-E10P

WOOFER AMPLIFIER

USE PLASTIC WASHER #8961 ON 4 CORNER MOUNTING NUTS

HI- MUTE -80V_H -24V -44V LO+ 96KHZ HIOUT HIOUT LOOUT +44V +24V_ +80V_H

HI+ -15V +24V LVGND +15V LO- -80V -80V WGND LOOUT LOOUT +80V +80V

Yorkville

© 2016

TEST

HORN AMPLIFIER

V05

Designators

Amp 1 of 1 V05
EF12/15/215P
PSA1-SA102/153
M1501 V05
EF10P-E10P

WOOFER AMPLIFIER

USE PLASTIC WASHER #8961 ON 4 CORNER MOUNTING NUTS

HI- MUTE -80V_H -24V -44V LO+ 96KHZ HIOUT HIOUT LOOUT +44V +24V_ +80V_H

7883

HI+ -15V +24V LVGND +15V LO- -80V -80V WGND LOOUT LOOUT +80V +80V

Yorkville

© 2016

TEST

HORN AMPLIFIER

V05

Values

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1-Place Connector (#7883) on all boards on panel BEFORE Reflow Oven.

PCB HARDWARE

SCREWS AND BOLTS

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

Yorkville	Section: **Assembly**			
	Product(s): .M1498/M1501			
	PCB#:	Rev#: V05	EML Rev#: 01	Sheet 3 Of 3
	Modified: 2020-02-03	File: Assembly.SchDoc		Tmp Rev: V032

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	OCT-4-2017	V02	.	RELEASED VERSION 2.
2	APR-27-2018	V03	9129	MOVED R61_3T AWAY FROM 80V CONNECTOR PAD
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POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS

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

Proposal For Change

Yorkville

PRIORITY	NORM	X-JOB	PC No. ▶	7640	TEMP
PO ✓	NO	XO			TO

RO **REJECTED** The Proposal for Change has been reviewed and considered but will *not* be implemented. DATE

Date Required:

PCBSA #57	Wiring #55	T&R #70	WACM #52	P/Engineering #25	Sales #10
PCBM #58	Metal Fab #50	Finishing #65	Board & Test #53	LAB #20 ✓	Service #09
Auto Insertion #59	W/Shop #60	Chas Screening #51	QC #65		

MODEL	PCB/Chas	Version	Task Order
E10P	M1311		

APPROVAL	
SL	
BW	
TW	TW
PM	
	TW

ORIGINATOR

From	Tom Wood
Dept	LAB
Date	Aug 20 2008
Originator's Signature	UPON COMPLETION
Designer's Signature	UPON COMPLETION

Description of Change | **Document Update/Correction** | **Program Update/Correction**

1)
Q5 p3 — 200R — U8 p32, U7 p44, U2 p20
8N2

This replaces R68, 67, 47 with short, Adds 8N2 inductor and 200R ~~resistor~~ Resistor in series with clock line.

PCD1263CT-ND digikey
ELJ-FA6R2KF panasonic

Reason for Change

Reduce EMI #7708 200R o/w #

Update units coming in for SERVICE?
Update FINISHED units in warehouse?
Update WIP?
Electrical compliance affected?

Will a model or prototype be needed? YES NO
Will the current test fixtures be affected? YES NO
If yes, what is the estimated cost of fixture?
Before serial number

By doing this change, are units currently out in field compatible? YES NO MAYBE

Part	Description	Old	New	D	M	A	Cost/Unit	Total

PO **PRIORITY** Priority will be given to these PC's and will be implemented by the date required.
NO **NORM** These PC's will be collected and processed normally, executed when time and manpower permits.
XO **X-JOB** These PC's will be collected and implemented in the future when or if other PCs are being executed for the product
TO **TEMP** Temporary changes will be made for the stated run only!

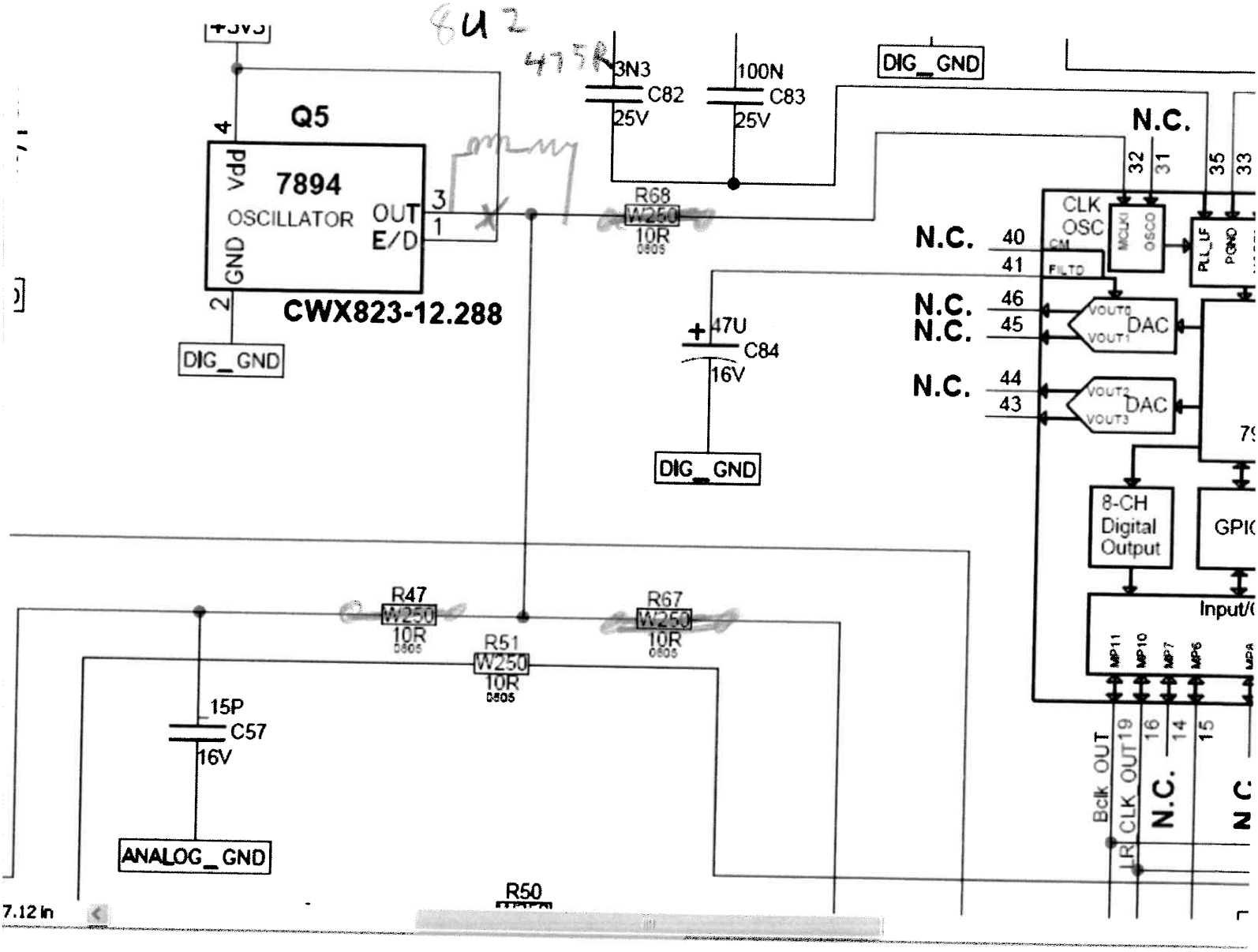
NOTICE: Original PCs must NOT go out into production

FORM-Proposal-for-Change-00-5v0.ai

MAKE A NEW COPY EVERYTIME. CHANGES ARE BEING MADE ALL THE TIME

Peter Afshin Pete George Andrew Adel Henry James Carl L.

PC 7640


Q5
7894
OSCILLATOR
Vdd
GND
OUT
E/D
CWX823-12.288
DIG_GND
3N3
C82
25V
100N
C83
25V
R68
W250
10R
0805
47U
C84
16V
N.C.
CLK
OSC
DAC
8-CH
Digital
Output
R47
R67
R51
R50
15P
C57
16V
ANALOG_GND
Bclk_OUT
LR CLK_OUT
7.12 in

MAKE A NEW COPY EVERYTIME. CHANGES ARE BEING MADE ALL THE TIME

Peter | Afshin | Pete | George | Andrew | Adel | Henry | James | Carl L.

PROPOSAL FOR CHANGE

Yorkville

PRIORITY	NORM	X-JOB	PC No. ▶	8361	TEMP
PO	NO	XO			TO

RO **REJECTED** The Proposal for Change has been reviewed and considered but will *not* be implemented. | DATE

PCBSA #57	Wiring #55	T&R #70	WACM #52	P/Engineering #25	Sales #10
PCBM #58	Metal Fab #50	Finishing #65	Board & Test #53	LAB #20	Service #09
Auto Insertion #59	W/Shop #60	Chas Screening #51	QC #65		

MODEL	PCB/CHAS	VERSION	TASK ORDER
~~E10P~~	X8019-59	4.00	
PSA1	M1311		

APPROVED	
SL	
BW	
TW	
PM	

ORIGINATOR	
FROM	SHAHIN
DEPT	LAB
DATE	DEC 7, 2011
	UPON COMPLETION
	UPON COMPLETION

DESCRIPTION OF CHANGE

DOCUMENT UPDATE/CORRECTION | PROGRAM UPDATE/CORRECTION

R33, R24 2k2 → 2k32 (#7632)

R45, R31 10k → 10k0 (#7928)

R46 270Ω → 330Ω (#7897)

R58 1k5 → 1k8 (#7899)

Completed Jan 25/2012

→ MM2 updated
→ Layout updated
→ Schem updated
→ Viewer updated

} V04 & V05

ML

REASON FOR CHANGE

Reduce number of parts to allow board to fit on SMT machine.

Update units coming in for SERVICE?
Update FINISHED units in warehouse?
UPDATE WIP?
Electrical compliance affected?

Will a metal or prototype be needed? YES X NO

Will the current test fixtures be affected? YES NO

If yes, what is the estimated cost of fixture?

Before serial number

By doing this change, are units currently out in field compatible? YES X NO MAYBE

PART	DESCRIPTION	OLD	NEW	D	M	A	COST/UNIT	TOTAL

PO **PRIORITY** Priority will be given to these PC's and will be implemented by the date required.

NO **NORM** These PC's will be collected and processed normally, executed when time and manpower permits.

XO **X-JOB** These PC's will be collected and implemented in the future when or if other PCs are being executed for the product

TO **TEMP** Temporary changes will be made for the stated run only!

NOTICE: ORIGINAL PCS MUST NOT GO OUT INTO PRODUCTION

FORM-Proposal-for-Change-01-5v0.ai

MAKE A NEW COPY EVERYTIME. CHANGES ARE BEING MADE ALL THE TIME

Peter | Pete | Mike | George G | Andrew | Adel | Henry | James | Carl L. | George K

PROPOSAL FOR CHANGE

Yorkville

PRIORITY	NORM	X-JOB	PC No.	TEMP
PO	NO	XO	▶ 8578	TO

RO **REJECTED** The Proposal for Change has been reviewed and considered but will *not* be implemented. | DATE

DATE REQUIRED:

PCBSA #57	Wiring #55	T&R #70	WACM #52	P/Engineering #25	Sales #10
PCBM #58	Metal Fab #50	Finishing #65	Board & Test #53	LAB #20	Service #09
Auto Insertion #59	W/Shop #60	Chas Screening #51	QC #65		

MODEL	PCB/CHAS	VERSION	TASK ORDER
E10P	M1496	V06	
PSA1	M1311	V06	
	X8019	V06	

APPROVAL	
SL	
BW	
TW	
PM	
DESIGNER	

ORIGINATOR	
FROM	Mike Lebon
DEPT	PENG
DATE	Aug 26, 2013
ORIGINATOR'S SIGNATURE	
DESIGNER'S SIGNATURE	UPON COMPLETION

DESCRIPTION OF CHANGE | **DOCUMENT UPDATE/CORRECTION** | **PROGRAM UPDATE/CORRECTION**

- Change XLR Male jack from 3453 to 4100.

Completed 16-OCT-13
→ New layout V07
→ MML updated M.L.

REASON FOR CHANGE

XLR 3453 is obsolete. YS#4100 is closest substitute.

- Update units coming in for SERVICE?
- Update FINISHED units in warehouse?
- UPDATE WIP?
- Electrical compliance affected?

Will a model or prototype be needed? YES ☑ NO

Will the current test fixtures be affected? YES NO

If yes, what is the estimated cost of fixture?

Before serial number

By doing this change, are units currently out in field compatible? YES NO MAYBE

PART	DESCRIPTION	OLD	NEW	D	M	A	COST/UNIT	TOTAL

PO **PRIORITY** Priority will be given to these PC's and will be implemented by the date required.

NO **NORM** These PC's will be collected and processed normally, executed when time and manpower permits.

XO **X-JOB** These PC's will be collected and implemented in the future when or if other PCs are being executed for the product

TO **TEMP** Temporary changes will be made for the stated run only!

NOTICE: ORIGINAL PCS MUST NOT GO OUT INTO PRODUCTION

MAKE A NEW COPY EVERYTIME. CHANGES ARE BEING MADE ALL THE TIME

Peter ✓ Pete Mike George G Andrew Adel Henry James Carl L. George K

Yorkville PROPOSAL FOR CHANGE

PRIORITY	NORM	X-JOB	PC No. ▶	8580	TEMP
PO ✓	NO	XO			TO

DATE REQUIRED:

RO **REJECTED** The Proposal for Change has been reviewed and considered but will *not* be implemented. DATE

✓ PCBSA #57	Wiring #55	T&R #70	WACM #52	P/Engineering #25	Sales #10
PCBM #58	Metal Fab #50	Finishing #65	Board & Test #53	LAB #20	Service #09
Auto Insertion #59	W/Shop #60	Chas Screening #51	QC #65		

MODEL	PCB/CHAS	VERSION	TASK ORDER
PSA1	M1496	V06	
E10P	M1311	V06	

APPROVAL	
SL	
BW	
TW	TW
PM	
DESIGNER	

ORIGINATOR	
FROM	Peter Mahoney
DEPT	P. ENG
DATE	Sep 3, 2013
ORIGINATOR'S SIGNATURE	UPON COMPLETION
DESIGNER'S SIGNATURE	UPON COMPLETION

DESCRIPTION OF CHANGE

DOCUMENT UPDATE/CORRECTION | PROGRAM UPDATE/CORRECTION

Find a suitable replacement that holds the jack with more tension.
Replace Belton Combo XLR connector YS# 3416 with Neutrik NCJ6FI-V-0 YS# 6509

Completed 16-Oct-13
→ New lay V07
→ MML updated

REASON FOR CHANGE

Combo xlr does not hold the 1/4 inch jack with enough tension causing the jack to rattle or become unplugged.

Update units coming in for SERVICE?
Update FINISHED units in warehouse?
UPDATE WIP?
Electrical compliance affected?

Will a model or prototype be needed? YES NO
Will the current test fixtures be affected? YES NO
If yes, what is the estimated cost of fixture?
Before serial number

By doing this change, are units currently out in field compatible? YES NO MAYBE

PART	DESCRIPTION	OLD	NEW	D	M	A	COST/UNIT	TOTAL

PO **PRIORITY** Priority will be given to these PC's and will be implemented by the date required.
NO **NORM** These PC's will be collected and processed normally, executed when time and manpower permits.
XO **X-JOB** These PC's will be collected and implemented in the future when or if other PCs are being executed for the product
TO **TEMP** Temporary changes will be made for the stated run only!

NOTICE: ORIGINAL PCS MUST NOT GO OUT INTO PRODUCTION

FORM-Proposal-for-Change-01-5v0.ai

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