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

WORLD HEADQUARTERS
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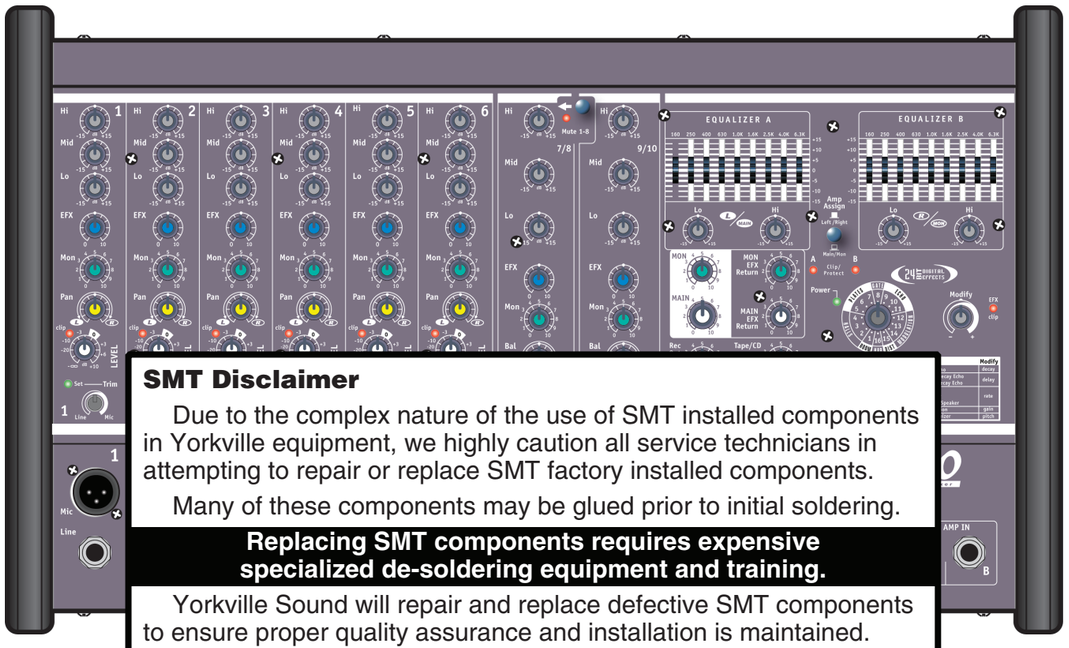
Quality and Innovation Since 1963
Printed in Canada

SERVICE MANUAL

Series 1 and 2
M810 / M1610

MODEL TYPE: YS1032 (M1610)
MODEL TYPE: YS1033 (M810)



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-m810-m1610-00-3v3 • Apr 19, 2024

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

IEC 60417-5041

CAUTION: HOT SURFACE
ATTENTION: SURFACE CHAUDE

NOT TO BE SERVICED BY USERS

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

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

CAUTION: OVERHEAD LOAD
ATTENTION: CHARGE AÉRIENNE

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.

Cleaning: Clean only with dry cloth.

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

Warning: To reduce the risk 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.

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

Improper installation can result in bodily injury or death. If you are not qualified to attempt the installation get help from a professional structural rigger.

Note: Prolonged use of headphones at a high volume may cause health damage to your ears.

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, requires battery pack replacement 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.

Nettoyage: 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.

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

Une installation incorrecte peut entraîner des blessures corporelles ou la mort. Si vous n'êtes pas qualifié pour tenter l'installation, demandez l'aide d'un gréeur structurel professionnel.

Remarque : L'utilisation prolongée d'écouteurs à un volume élevé peut nuire à la santé de 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 - L'appareil ne doit être entretenu que par un personnel de service qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque manière que ce soit, comme le cordon d'alimentation ou la fiche est endommagé, du liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement , nécessite le remplacement de la batterie ou est tombé. Débranchez l'alimentation avant l'entretien!

IMPORTANT SAFETY INSTRUCTIONS

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

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

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:

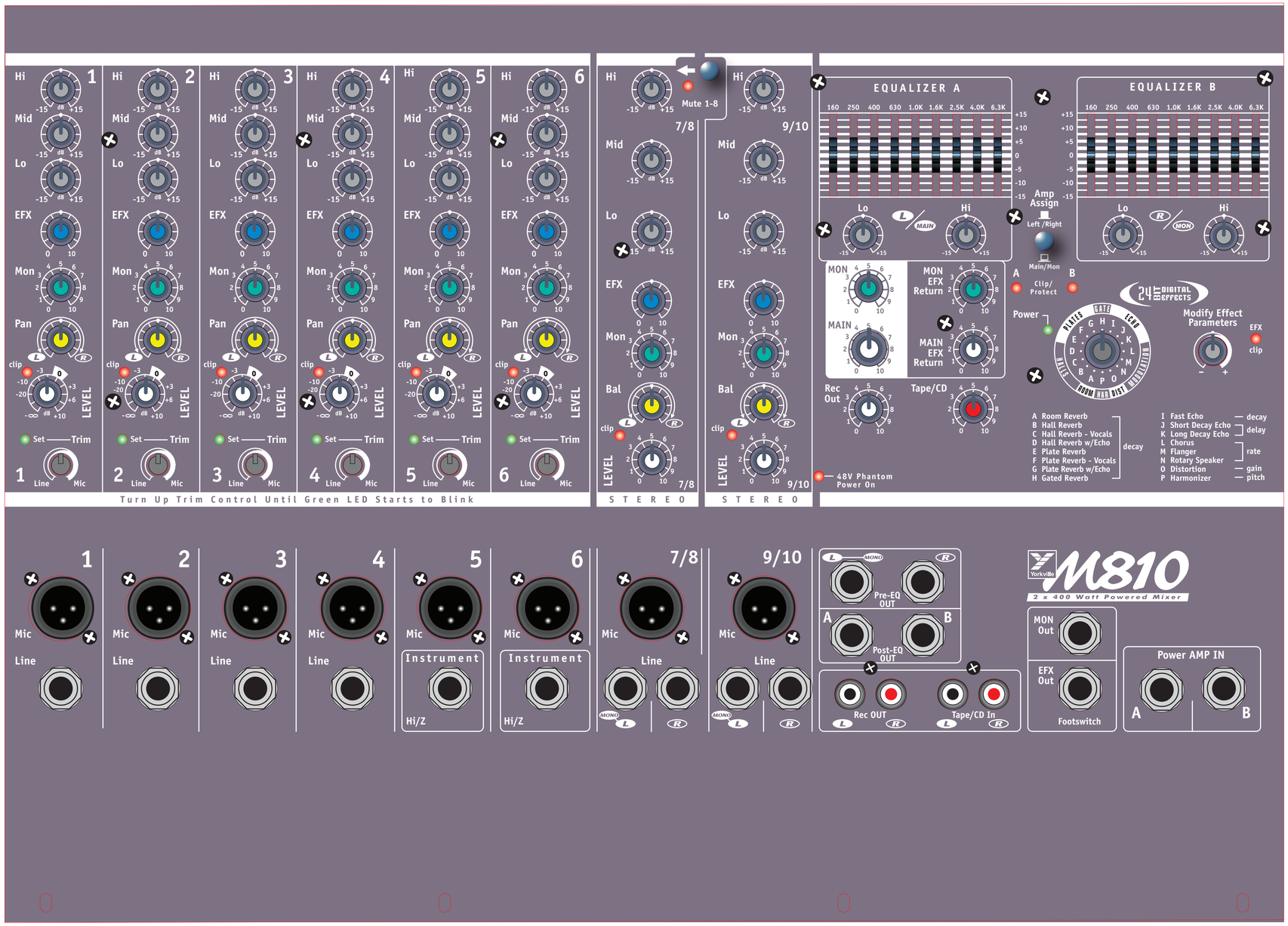
• Pour réduire les risques d'incendie ou de choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité et ne placez pas d'objets contenant des liquides, tels que des vases, sur l'appareil.

• 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.


Hi
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EFX
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LEVEL
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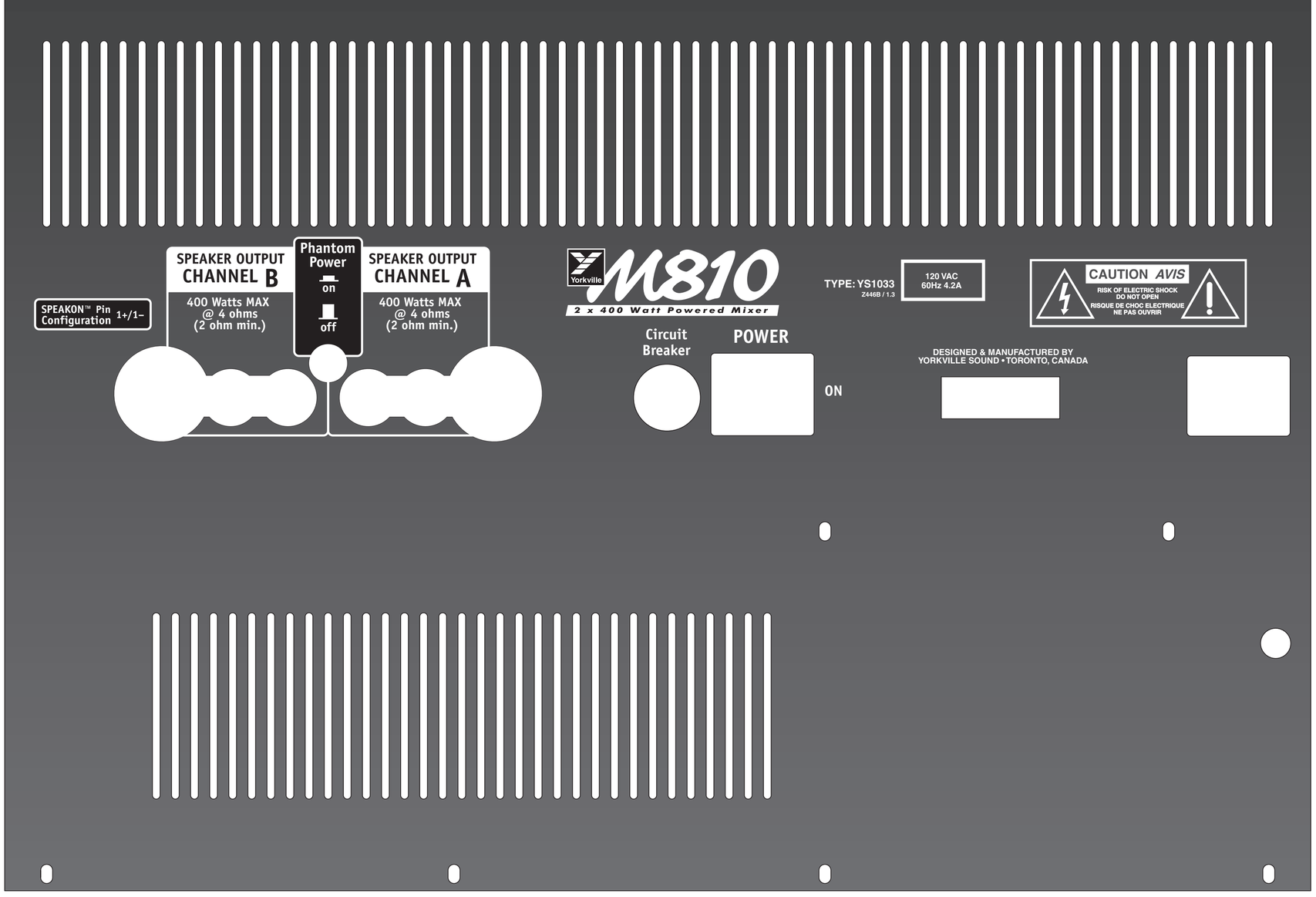
6
Turn Up Trim Control Until Green LED Starts to Blink
Mute 1-8
7/8
9/10
S T E R E O
EQUALIZER A
EQUALIZER B
160 250 400 630 1.0K 1.6K 2.5K 4.0K 6.3K
+15 +10 +5 0 -5 -10 -15
Amp Assign
Left /Right
Main/Mon
MON
MAIN
MON EFX Return
MAIN EFX Return
Rec Out
Tape/CD
A
B
Clip/ Protect
Power
24 BIT DIGITAL EFFECTS
PLATES GATE ECHO MODULATION ROOM WAH DIST
Modify Effect Parameters
EFX
clip
A Room Reverb
B Hall Reverb
C Hall Reverb - Vocals
D Hall Reverb w/Echo
E Plate Reverb
F Plate Reverb - Vocals
G Plate Reverb w/Echo
H Gated Reverb
decay
I Fast Echo — decay
J Short Decay Echo — delay
K Long Decay Echo
L Chorus — rate
M Flanger
N Rotary Speaker
O Distortion — gain
P Harmonizer — pitch
48V Phantom Power On
Instrument
Hi/Z
Pre-EQ OUT
Post-EQ OUT
Rec OUT
Tape/CD In
Yorkville
M810
2 x 400 Watt Powered Mixer
MON Out
EFX Out
Footswitch
Power AMP IN


SPEAKON™ Pin Configuration 1+/1–
SPEAKER OUTPUT CHANNEL B
400 Watts MAX @ 4 ohms (2 ohm min.)
Phantom Power
on
off
SPEAKER OUTPUT CHANNEL A
400 Watts MAX @ 4 ohms (2 ohm min.)
Yorkville
M810
2 x 400 Watt Powered Mixer
TYPE: YS1033
Z446B / 1.3
120 VAC 60Hz 4.2A
CAUTION AVIS
RISK OF ELECTRIC SHOCK DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
Circuit Breaker
POWER
ON
DESIGNED & MANUFACTURED BY YORKVILLE SOUND • TORONTO, CANADA

Hi Mid Lo EFX Mon Pan clip LEVEL Set Trim Line Mic

1 2 3 4 5 6 7/8 9/10

Mute 1-8

Turn Up Trim Control Until Green LED Starts to Blink

STEREO

EQUALIZER A

160 250 400 630 1.0K 1.6K 2.5K 4.0K 6.3K

+15 +10 +5 0 -5 -10 -15

Lo L/MAIN Hi

EQUALIZER B

160 250 400 630 1.0K 1.6K 2.5K 4.0K 6.3K

+15 +10 +5 0 -5 -10 -15

Lo R/MON Hi

Amp Assign

Left /Right

Main/Mon

MON

MAIN

MON EFX Return

MAIN EFX Return

Rec Out

Tape/CD

48V Phantom Power On

A B Clip/ Protect

24 BIT DIGITAL EFFECTS

Power

PLATES GATE ECHO HALLS ROOM HARD DIST MODULATION

Modify

EFX clip

Effect	Modify	Effect	Modify
1. Room Reverb	decay	9. Fast Echo	decay
2. Hall Reverb	decay	10. Short Decay Echo	delay
3. Hall Reverb - Vocals		11. Long Decay Echo	
4. Hall Reverb w/Echo		12. Chorus	rate
5. Plate Reverb	decay	13. Flanger	
6. Plate Reverb - Vocals		14. Rotary Speaker	
7. Plate Reverb w/Echo		15. Distortion	gain
8. Gated Reverb	decay	16. Harmonizer	pitch

1 2 3 4 5 6 7/8 9/10

Mic Line

Instrument Hi/Z

MONO L R

Pre-EQ OUT

Post-EQ OUT

A B

Rec OUT

Tape/CD In

Yorkville M810

2 x 400 Watt Powered Mixer

Series 2

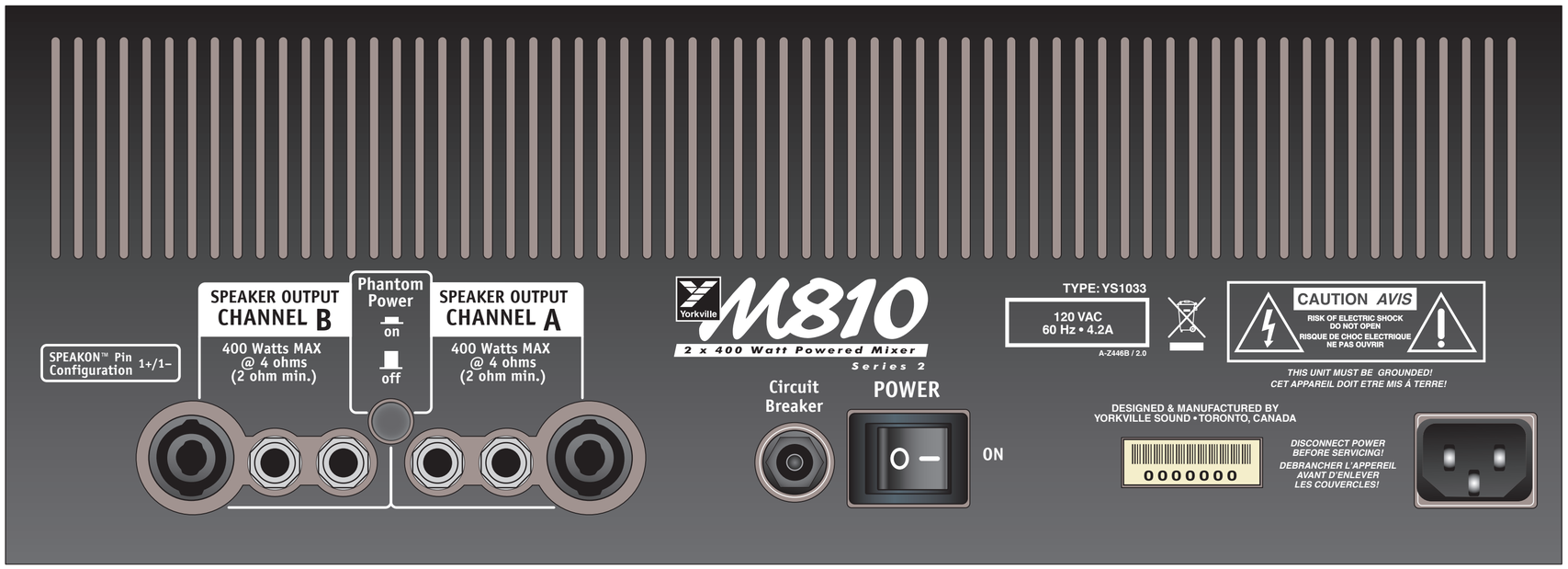
MON Out

EFX Out

Footswitch

Power AMP IN

A B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Phantom Power
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off
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Series 2
TYPE: YS1033
120 VAC
60 Hz • 4.2A
A-Z446B / 2.0
CAUTION AVIS
RISK OF ELECTRIC SHOCK DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
THIS UNIT MUST BE GROUNDED!
CET APPAREIL DOIT ETRE MIS À TERRE!
Circuit Breaker
POWER
ON
DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA
0000000
DISCONNECT POWER BEFORE SERVICING!
DEBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!


Hi
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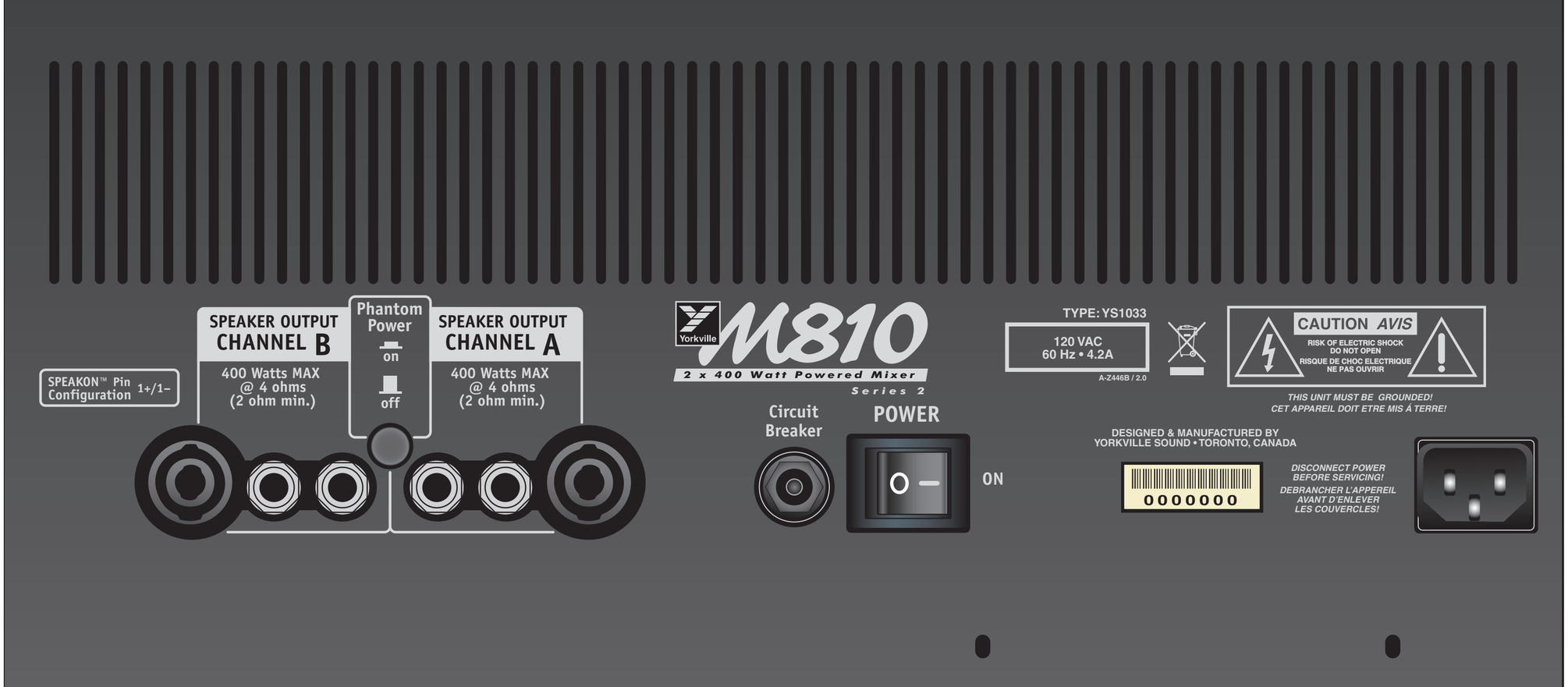
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Circuit Breaker
POWER
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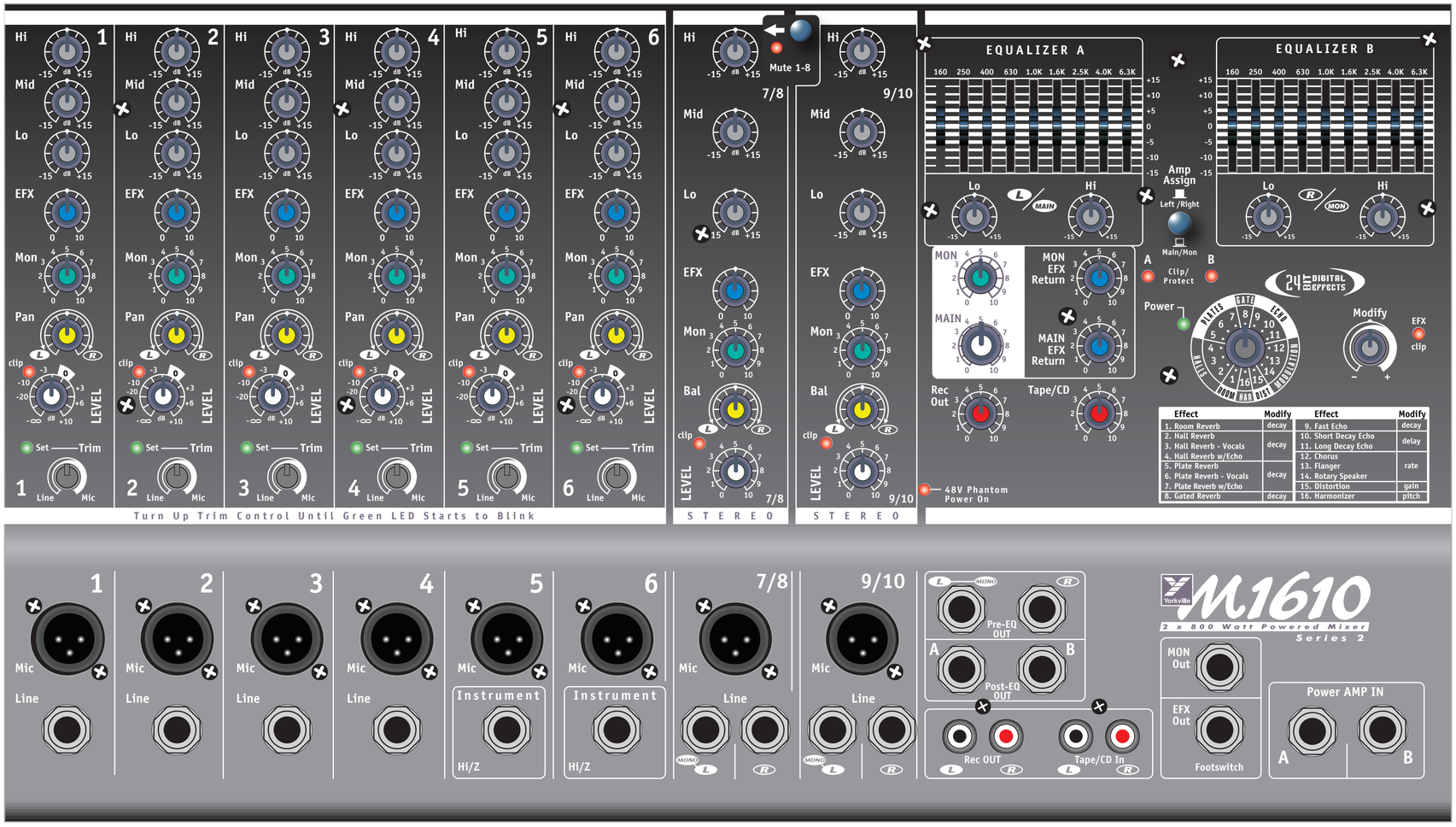
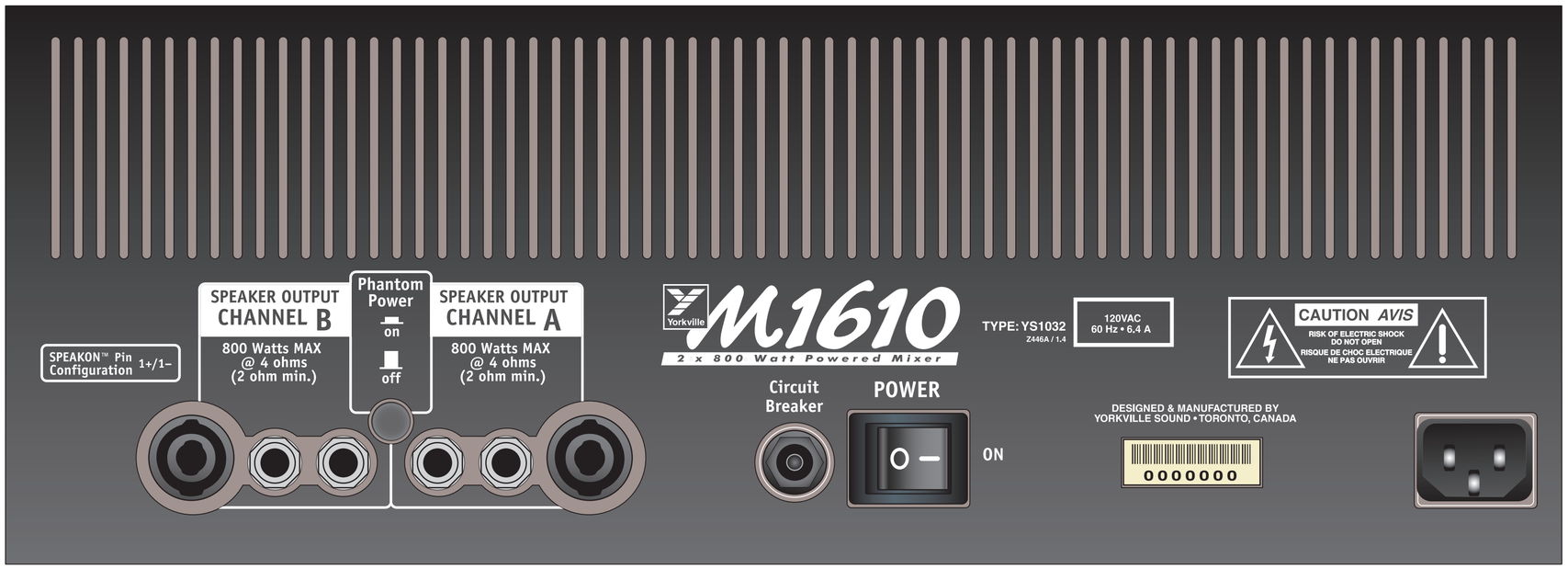
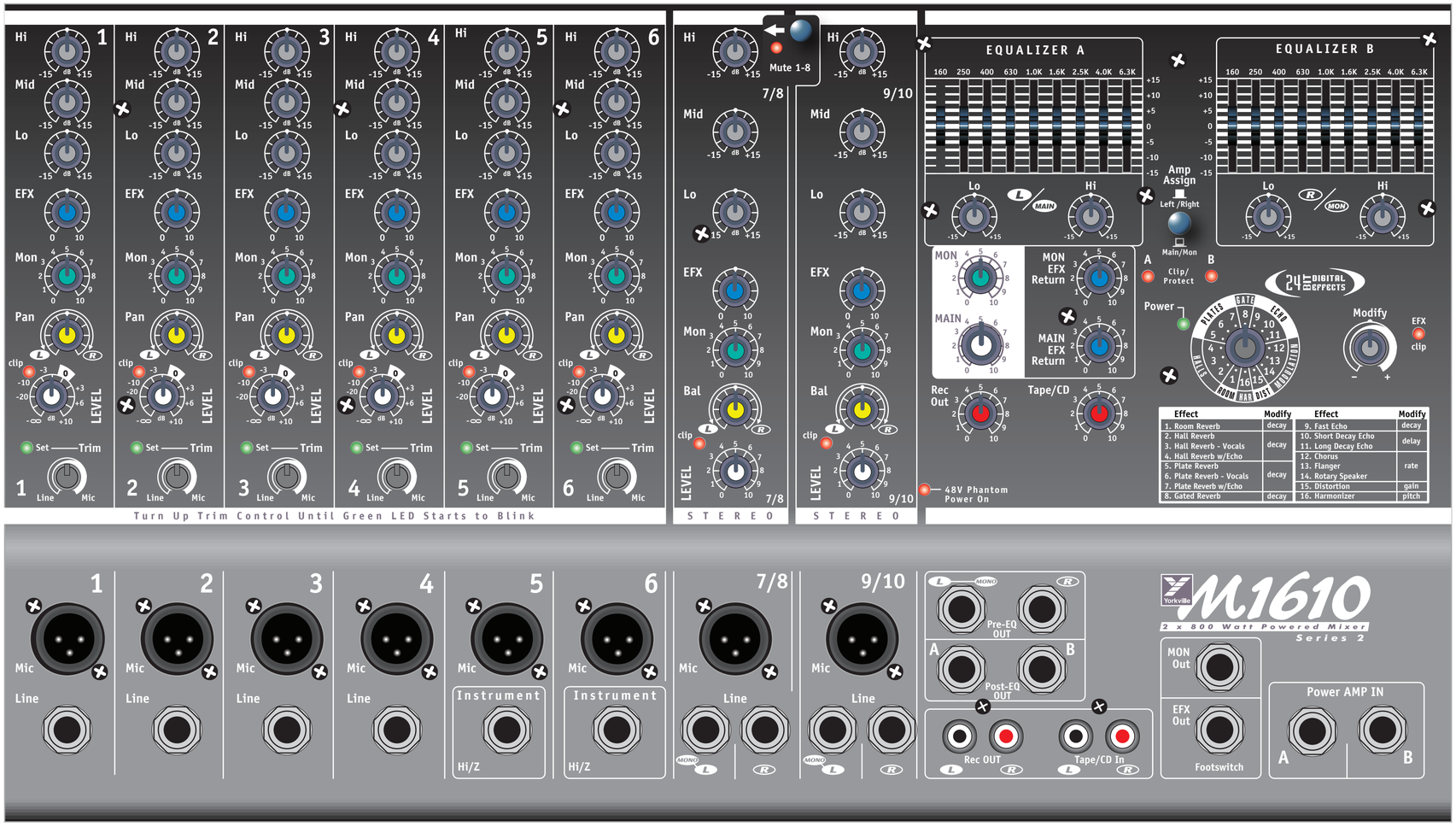
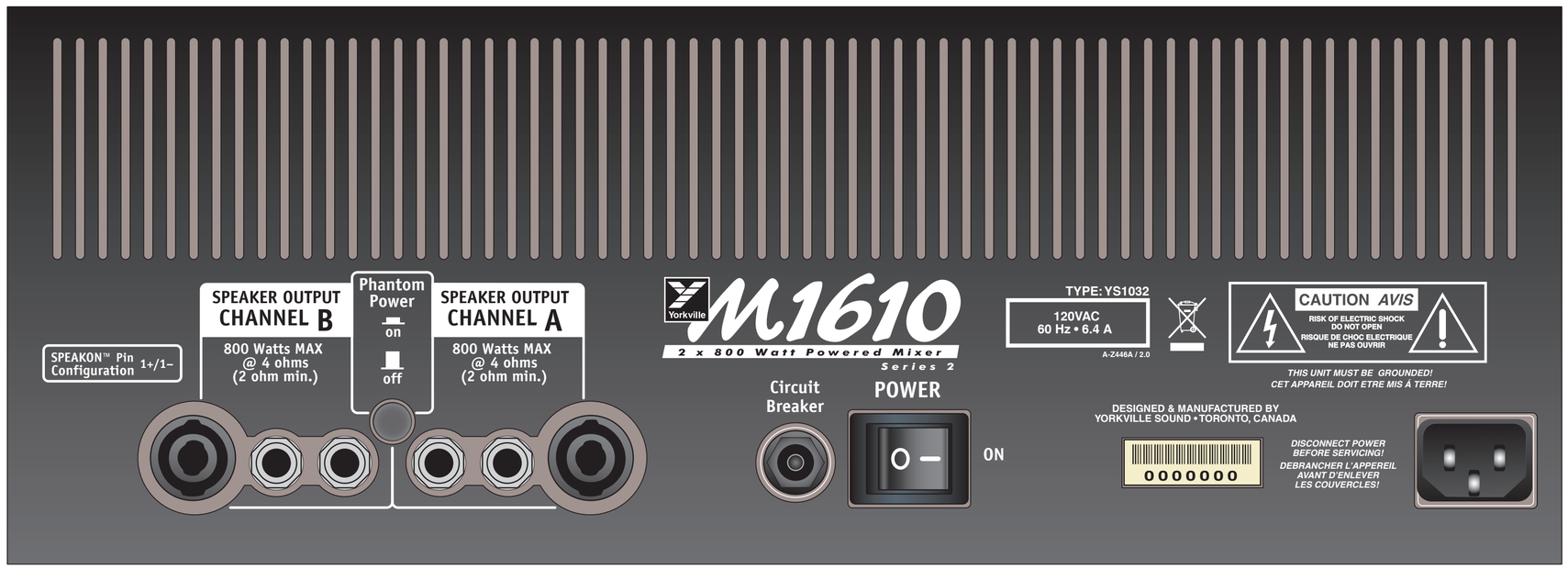
DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA
0000000
DISCONNECT POWER BEFORE SERVICING!
DEBRANCHER L'APPEREIL AVANT D'ENLEVER LES COUVERCLES!

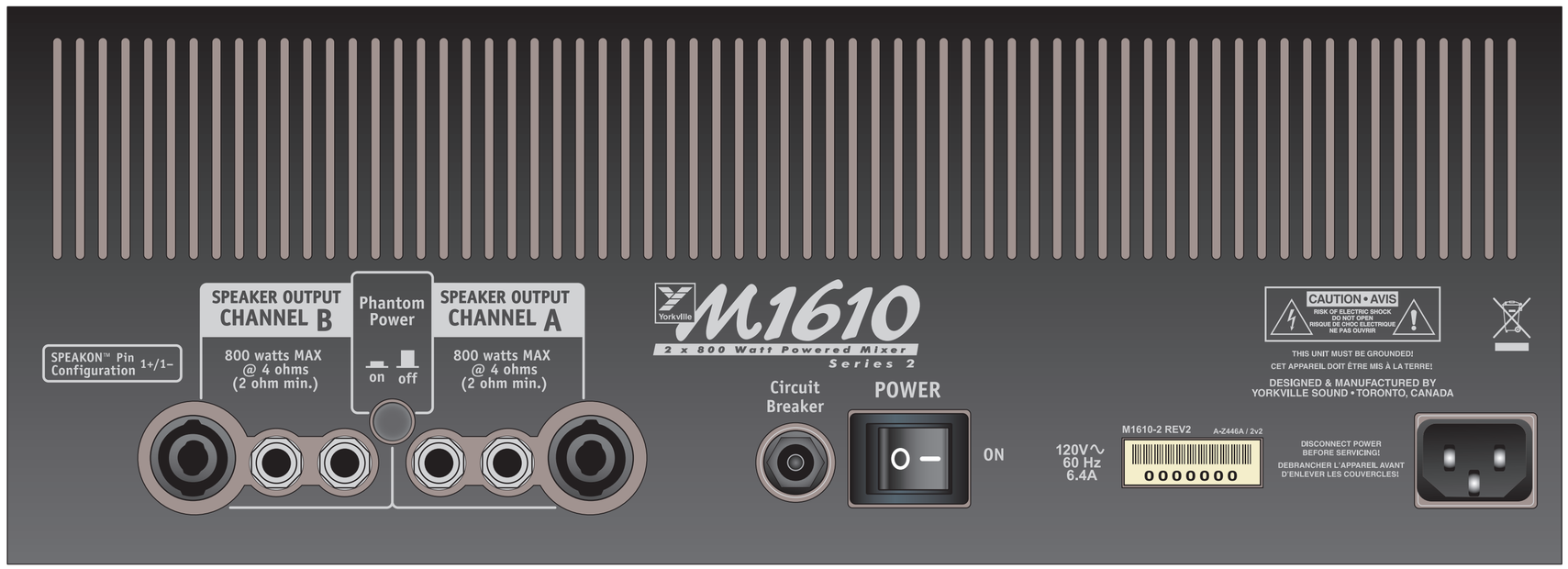

Hi
Mid
Lo
EFX
Mon
Pan
clip
LEVEL
Set
Trim
Line
Mic
1
2
3
4
5
6
Turn Up Trim Control Until Green LED Starts to Blink
Mute 1-8
7/8
9/10
S T E R E O
EQUALIZER A
EQUALIZER B
160 250 400 630 1.0K 1.6K 2.5K 4.0K 6.3K
+15 +10 +5 0 -5 -10 -15
Amp Assign
Left /Right
Main/Mon
MON
MAIN
MON EFX Return
MAIN EFX Return
Rec Out
Tape/CD
48V Phantom Power On
A
B
Clip/ Protect
Power
24 BIT DIGITAL EFFECTS
PLATES
GATE
REVERB
ROOM
WAH
DIST
MODULATION
Modify
EFX
clip
Effect
Modify
1. Room Reverb
2. Hall Reverb
3. Hall Reverb - Vocals
4. Hall Reverb w/Echo
5. Plate Reverb
6. Plate Reverb - Vocals
7. Plate Reverb w/Echo
8. Gated Reverb
9. Fast Echo
10. Short Decay Echo
11. Long Decay Echo
12. Chorus
13. Flanger
14. Rotary Speaker
15. Distortion
16. Harmonizer
decay
delay
rate
gain
pitch
Mic
Line
Instrument
Hi/Z
Pre-EQ OUT
Post-EQ OUT
Rec OUT
Tape/CD In
MON Out
EFX Out
Footswitch
Power AMP IN
Yorkville
M1610
2 x 800 Watt Powered Mixer
Series 2


SPEAKON™ Pin Configuration 1+/1–
SPEAKER OUTPUT CHANNEL B
800 Watts MAX @ 4 ohms (2 ohm min.)
Phantom Power
on
off
SPEAKER OUTPUT CHANNEL A
800 Watts MAX @ 4 ohms (2 ohm min.)
Yorkville
M1610
2 x 800 Watt Powered Mixer
TYPE: YS1032
Z446A / 1.4
120VAC 60 Hz • 6.4 A
CAUTION AVIS
RISK OF ELECTRIC SHOCK DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
Circuit Breaker
POWER
ON
DESIGNED & MANUFACTURED BY YORKVILLE SOUND • TORONTO, CANADA
0000000


Hi
Mid
Lo
EFX
Mon
Pan
clip
LEVEL
Set
Trim
Line
Mic
1
2
3
4
5
6
Turn Up Trim Control Until Green LED Starts to Blink
Mute 1-8
7/8
9/10
S T E R E O
EQUALIZER A
EQUALIZER B
160 250 400 630 1.0K 1.6K 2.5K 4.0K 6.3K
+15 +10 +5 0 -5 -10 -15
Amp Assign
Left /Right
Main/Mon
MON
MAIN
MON EFX Return
MAIN EFX Return
Rec Out
Tape/CD
48V Phantom Power On
A
B
Clip/ Protect
Power
24 BIT DIGITAL EFFECTS
PLATES
GATE
REVERB
ROOM
WAH
DIST
MODULATION
Modify
EFX
clip
Effect
Modify
1. Room Reverb
2. Hall Reverb
3. Hall Reverb - Vocals
4. Hall Reverb w/Echo
5. Plate Reverb
6. Plate Reverb - Vocals
7. Plate Reverb w/Echo
8. Gated Reverb
9. Fast Echo
10. Short Decay Echo
11. Long Decay Echo
12. Chorus
13. Flanger
14. Rotary Speaker
15. Distortion
16. Harmonizer
decay
delay
rate
gain
pitch
Mic
Line
Instrument
Hi/Z
Pre-EQ OUT
Post-EQ OUT
Rec OUT
Tape/CD In
MON Out
EFX Out
Footswitch
Power AMP IN
Yorkville
M1610
2 x 800 Watt Powered Mixer
Series 2


SPEAKON™ Pin Configuration 1+/1–
SPEAKER OUTPUT CHANNEL B
800 Watts MAX @ 4 ohms (2 ohm min.)
Phantom Power
on
off
SPEAKER OUTPUT CHANNEL A
800 Watts MAX @ 4 ohms (2 ohm min.)
Yorkville
M1610
2 x 800 Watt Powered Mixer
Series 2
TYPE: YS1032
120VAC
60 Hz • 6.4 A
A-Z446A / 2.0
CAUTION AVIS
RISK OF ELECTRIC SHOCK DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
THIS UNIT MUST BE GROUNDED!
CET APPAREIL DOIT ETRE MIS À TERRE!
Circuit Breaker
POWER
ON
DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA
0000000
DISCONNECT POWER BEFORE SERVICING!
DEBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!


Hi
Mid
Lo
EFX
Mon
Pan
clip
LEVEL
Set
Trim
Line
Mic
1
2
3
4
5
6
Turn Up Trim Control Until Green LED Starts to Blink
Mute 1-8
7/8
9/10
Bal
STEREO
EQUALIZER A
EQUALIZER B
160 250 400 630 1.0K 1.6K 2.5K 4.0K 6.3K
Amp Assign
Main/Mon
Left/Right
MON
MAIN
MON EFX Return
MAIN EFX Return
Clip/ Protect
Power
24 BIT DIGITAL EFFECTS
Modify
EFX
Rec Out
Tape/CD
48V Phantom Power On
Effect
Modify
1. Room Reverb
2. Hall Reverb
3. Hall Reverb - Vocals
4. Hall Reverb w/Echo
5. Plate Reverb
6. Plate Reverb - Vocals
7. Plate Reverb w/Echo
8. Gated Reverb
9. Fast Echo
10. Short Decay Echo
11. Long Decay Echo
12. Chorus
13. Flanger
14. Rotary Speaker
15. Distortion
16. Harmonizer
decay
delay
rate
gain
pitch
Instrument
Hi-Z
Pre-EQ OUT
Post-EQ OUT
Rec OUT
Tape/CD In
Yorkville
M1610
2 x 800 Watt Powered Mixer
Series 2
MON Out
EFX Out
Footswitch
Power AMP IN


SPEAKER OUTPUT
CHANNEL B
800 watts MAX
@ 4 ohms
(2 ohm min.)
Phantom
Power
on
off
SPEAKER OUTPUT
CHANNEL A
800 watts MAX
@ 4 ohms
(2 ohm min.)
SPEAKON™ Pin
Configuration 1+/1–
Yorkville
M1610
2 x 800 Watt Powered Mixer
Series 2
Circuit
Breaker
POWER
ON
CAUTION • AVIS
RISK OF ELECTRIC SHOCK
DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR
THIS UNIT MUST BE GROUNDED!
CET APPAREIL DOIT ÊTRE MIS À LA TERRE!
DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA
120V~
60 Hz
6.4A
M1610-2 REV2
A-Z446A / 2v2
0000000
DISCONNECT POWER
BEFORE SERVICING!
DEBRANCHER L'APPAREIL AVANT
D'ENLEVER LES COUVERCLES!

M810-2 SPECIFICATIONS	
Number of Channels	10
Mono Channel EQ	Low, Mid, High
Stereo Channel EQ	Low, Mid, High
Channel Effects	All Channels
Monitors Effects	Yes
Balance Controls	Ch. 7 - 10
Pan Controls	Ch. 1 - 6
Channel Overload Protection	Ch. 1 - 6
Inputs - XLR (bal)	8
Inputs - 1/4-inch	10
Inputs - RCA (unbal)	1 Pair
Mute Switches	Global 1 - 8
Activity / Solo LED	Trim Set Ch. 1 - 6
Clip /Mute LED	All Channels
Phantom Power	48V + LED Indicator
Internal Effects	24 bit Stereo, 16 Effects with Parameter Pot
Auxiliary Sends	Effect - Monitor
Effects Send	Yes
Effects Return	Internal
Effects Return to Main	Yes
Effects Return to Monitor	Yes
Reverb / Effects Footswitch	Yes
Record Outputs	Stereo RCA Pair
Max Gain to Line Out -Mic Input (dB)	84
Max Gain to Line Out -Line Input (dB)	82
Master EQ -1 (type /Channels /Range - dB)	Graphic 9 band (160hz-6.3khz) +2 band Shelving
Monitor EQ -1 (type /Channels /Range - dB)	Graphic 9 band (160hz-6.3khz) +2 band Shelving
Main Outputs (Line Level)	2 x 1/4inch TRS
Main Amp Inputs (Line Level)	2 x 1/4inch TRS
Monitor Outputs (Line Level)	1 x 1/4inch TRS
Outputs - Amp A - 1/4-inch Jacks	2
Outputs - Amp A - Speakon 4-pin	1
Outputs - Amp B - 1/4-inch Jacks	2
Outputs - Amp B - Speakon 4-pin	1
Mixer - Signal to Noise Ratio (dB)	105
Mixer - Frequency Response (Tone and EQ Flat,+/-2dB)	20 - 20,000
Mixer - Input Referred Noise to line out, @ 150 ohms (dBv)	-119
Mixer THD (Main out w/ -10dB input)	0.01%
Amp A - Power Output @ 8 ohms (0%1"THD, 1kHz)	250
Amp A - Power Output @ 4 ohms	400
Amp A - Power Output -other	400 @ 2 ohms
Amp B - Power Output @ 8 ohms (0%1"THD, 1kHz)	250
Amp B - Power Output @ 4 ohms	400
Amp B - Power Output -other	400 @ 2 ohms
THD - 1kHz (dB)	0.1%
THD - 20Hz-20kHz (dB)	0.5%
Hum and Noise (un / Aweight -dB)	-101 / -107
Typical crosstalk -1 kHz (dB)	better than -60db
Input Impedance - Bal/Unbal (ohms)	20k / 10k ohms
Input Sesitivity (Vrms Sine)	1.4
CMRR @ 60Hz (min/typ)	-37db / -60db
Max Votage Gain (dB)	29
Power Consumption (typ/max)	770VA / 500VA
Protection	Thermal, Short Circuit, Impedance Overload
Cooling	2 x 80mm Fans
Transformer Type	Toroidial
Finish	Grey and Black Powder Coat
Chassis Construction	Steel and Aluminum
Rackmount	Yes (Kit Available)
Other Features	Tiltback or Upright Wedge Angles
Dimensions (DWH, inches)	11.1 x 18.6 x 11
Dimensions (DWH, cm)	28 x 47 x 28
Weight (lbs/kg)	28.2 / 12.8

M810 SPECIFICATIONS

Nombre de canal	10
Égalsisateur -canaux monophoniques	Graves,Méedianes,Aiguës
Égalsisateur -canaux stéréophoniques	Graves,Méedianes,Aiguës
Effets sur canal	Tous les canaux
Effets pour les retours	Oui
Contrôle de balance	Canaux 7 - 10
Contrôle panoramique	Canaux 1 - 6
Protection de surcharge pour canal	Canaux 1 - 6
Entrées XLR (symétriques)	8
Entrées - 1/4-pouce	10
Entres - RCA (asymétriques)	1 Paire
Commutateur Mute	Global 1 - 8
DEL d'activité / Solo	Trim Set Canaux 1 - 6
DEL Clip /Mute	Tous les canaux
Alimentation en duplex	DEL indicatrice 48V +
Effets internes	Numérique 24 Bit Stéreo; 16 Effets avec Parametre
Envois auxiliaires	Effet - Moniteur
Envoi pour effets	Oui
Retour pour effets	Interne
Retour pour effet au bus principal	Oui
Retour pour effet au bus de moniteur	Oui
Commutateur au pied Reverb / Effects	Oui
Sorties pour enregistrement	Paire Stéréo RCA
Gain maximum à la sortie ligne -Entrée Mic (dB)	84
Gain maximum à la sortie ligne -Entrée Ligne (dB)	82
Égalisateur principal -1 (type /Canaux / Bande- dB)	Graphique 9 bandes (160hz-6.3khz) +2 bandes à chevauchement
Égalisateur pour moniteurs -1 (type /Canaux / Bande- dB)	Graphique 9 bandes (160hz-6.3khz) +2 bandes à chevauchement
Sorties principales (Niveau Ligne)	2 x 1/4 pouce Pointe-Bague-Manchon
Entrées pour amplificateur principal(Niveau Ligne)	2 x 1/4 pouce Pointe-Bague-Manchon
Sorties Moniteur (Niveau Ligne)	1 x 1/4 pouce Pointe-Bague-Manchon
Sorties - Amp A - Jacks 1/4-pouce	2
Sorties - Amp A - prise Speakon 4-tiges	1
Sorties - Amp B - Jacks 1/4-pouce	2
Sorties - Amp B - prise Speakon 4-tiges	1
Mixeur - Rapport Signal Bruit (dB)	105
Mixeur - Réponse en fréquence (Contrôle Tone et EQ Flat,+/-2dB)	20 - 20,000
Mixeur - Bruit d'entré déféré à la sortie ligne @ 150 ohms (dBv)	-119
DHT Mixeur (Sorties principales avec entrée -10dB)	0.01%
Puissance de sortie Amp A @ 8 ohms (0%1"DHT, 1kHz)	250
Puissance de sortie Amp A @ 4 ohms	400
Puissance de sortie Amp A -autre	400 @ 2 ohms
Puissance de sortie Amp B @ 8 ohms (0%1"DHT, 1kHz)	250
Puissance de sortie Amp B @ 4 ohms	400
Puissance de sortie Amp B -autre	400 @ 2 ohms
DHT - 1kHz (dB)	0.1%
DHT - 20Hz-20kHz (dB)	0.5%
Bruit et bourdonnement (non / pondéré -dB)	-101 / -107
Transmodulation typique -1 kHz (dB)	meilleur que -60db
Impédance d'entrée - sym/asym (ohms)	20k / 10k ohms
Sensibilité d'entrée (Vrms Sin)	1.4
Rapport de réjection en mode commun @ 60Hz (min/typ)	-37db / -60db
Gain de Votage Max (dB)	29
Consommation de puissance (typ/max)	770VA / 500VA
Protection	Thermique, Court-Circuit, surcharge d'impédance Overload
Refroidissement	2 x ventilateurs de 80mm
Transformateur- Type	Toroïdal
Finition	Gris et noire
Construction du châssis	acier et aluminium
Montage en rack	Oui (trousse disponible)
Autres caractéristiques	Inclinable
Dimensions (PLH, pouces)	11.1 x 18.6 x 11
Dimensions (PLH, cm)	28 x 47 x 28
Poids (lives/kg)	28.2 / 12.8

M1610 SPECIFICATIONS

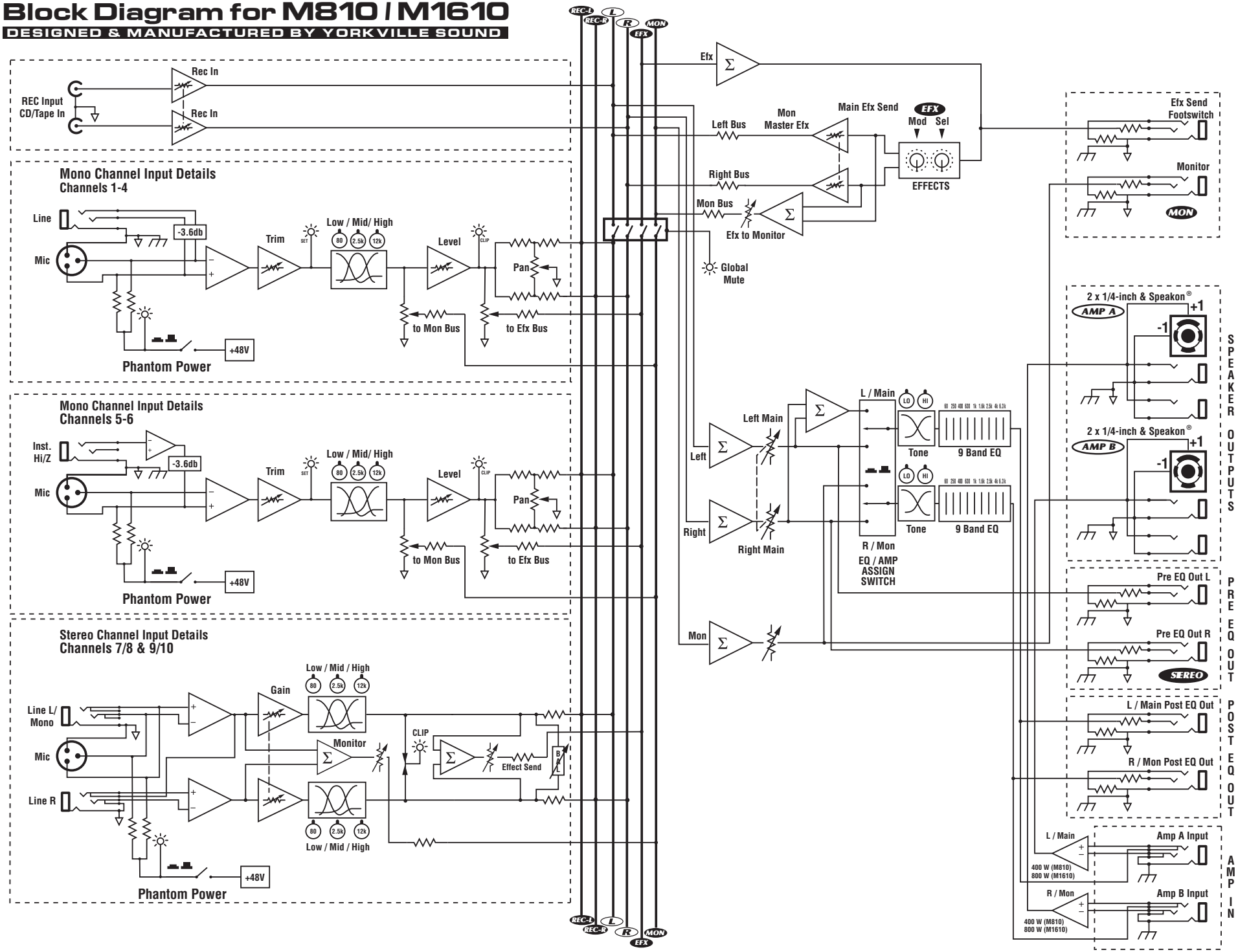
Number of Channels	10
Mono Channel EQ	Low, Mid, High
Stereo Channel EQ	Low, Mid, High
Channel Effects	All Channels
Monitors Effects	Yes
Balance Controls	Ch. 7 - 10
Pan Controls	Ch. 1 - 6
Channel Overload Protection	Ch. 1 - 6
Inputs - XLR (bal)	8
Inputs - 1/4-inch	10
Inputs - RCA (unbal)	1 Pair
Mute Switches	Global 1 - 8
Activity / Solo LED	Trim Set Ch. 1 - 6
Clip /Mute LED	All Channels
Phantom Power	48V + LED Indicator
Internal Effects	24 bit Stereo, 16 Effects with Parameter Pot
Auxiliary Sends	Effect - Monitor
Effects Send	Yes
Effects Return	Internal
Effects Return to Main	Yes
Effects Return to Monitor	Yes
Reverb / Effects Footswitch	Yes
Record Outputs	Stereo RCA Pair
Max Gain to Line Out -Mic Input (dB)	84
Max Gain to Line Out -Line Input (dB)	82
Master EQ -1 (type /Channels /Range - dB)	Graphic 9 band (160hz-6.3khz) +2 band Shelving
Monitor EQ -1 (type /Channels /Range - dB)	Graphic 9 band (160hz-6.3khz) +2 band Shelving
Main Outputs (Line Level)	2 x 1/4inch TRS
Main Amp Inputs (Line Level)	2 x 1/4inch TRS
Monitor Outputs (Line Level)	1 x 1/4inch TRS
Outputs - Amp A - 1/4-inch Jacks	2
Outputs - Amp A - Speakon 4-pin	1
Outputs - Amp B - 1/4-inch Jacks	2
Outputs - Amp B - Speakon 4-pin	1
Mixer - Signal to Noise Ratio (dB)	101
Mixer - Frequency Response (Tone and EQ Flat,+/-2dB)	20 - 20,000
Mixer - Input Referred Noise to line out, @ 150 ohms (dBv)	-119
Mixer THD (Main out w/ -10dB input)	0.01%
Amp A - Power Output @ 8 ohms (0%1"THD, 1kHz)	600
Amp A - Power Output @ 4 ohms	800
Amp A - Power Output -other	600 @ 2 ohms
Amp B - Power Output @ 8 ohms (0%1"THD, 1kHz)	600
Amp B - Power Output @ 4 ohms	800
Amp B - Power Output -other	600 @ 2 ohms
THD - 1kHz (dB)	0.1%
THD - 20Hz-20kHz (dB)	0.5%
Hum and Noise (un / Aweight -dB)	-101
Typical crosstalk -1 kHz (dB)	better than -60db
Input Impedance - Bal/Unbal (ohms)	20k / 10k ohms
Input Sesitivity (Vrms Sine)	1.4
CMRR @ 60Hz (min/typ)	-37db / -60db
Max Votage Gain (dB)	32
Power Consumption (typ/max)	770VA / 500VA
Protection	Thermal, Short Circuit, Impedance Overload
Cooling	2 x 80mm Fans
Transformer Type	Toroidial
Finish	Grey and Black Powder Coat
Chassis Construction	Steel and Aluminum
Rackmount	Yes (Kit Available)
Other Features	Tiltback or Upright Wedge Angles
Dimensions (DWH, inches)	11.1 x 18.6 x 11
Dimensions (DWH, cm)	28 x 47 x 28
Weight (lbs/kg)	31.3 / 14.2

M1610 SPECIFICATIONS

Nombre de canal	10
Égalsisateur -canaux monophoniques	Graves,Méedianes,Aiguës
Égalsisateur -canaux stéréophoniques	Graves,Méedianes,Aiguës
Effets sur canal	Tous les canaux
Effets pour les retours	Oui
Contrôle de balance	Canaux 7 - 10
Contrôle panoramique	Canaux 1 - 6
Protection de surcharge pour canal	Canaux 1 - 6
Entrées XLR (symétriques)	8
Entrées - 1/4-pouce	10
Entres - RCA (asymétriques)	1 Paire
Commutateur Mute	Global 1 - 8
DEL d'activité / Solo	Trim Set Canaux 1 - 6
DEL Clip /Mute	Tous les canaux
Alimentation en duplex	DEL indicatrice 48V +
Effets internes	Numérique 24 Bit Stéreo; 16 Effets avec Parametre
Envois auxiliaires	Effet - Moniteur
Envoi pour effets	Oui
Retour pour effets	Interne
Retour pour effet au bus principal	Oui
Retour pour effet au bus de moniteur	Oui
Commutateur au pied Reverb / Effects	Oui
Sorties pour enregistrement	Paire Stéréo RCA
Gain maximum à la sortie ligne -Entrée Mic (dB)	84
Gain maximum à la sortie ligne -Entrée Ligne (dB)	82
Égalisateur principal -1 (type /Canaux / Bande- dB)	Graphique 9 bandes (160hz-6.3khz) +2 bandes à chevauchement
Égalisateur pour moniteurs -1 (type /Canaux / Bande- dB)	Graphique 9 bandes (160hz-6.3khz) +2 bandes à chevauchement
Sorties principales (Niveau Ligne)	2 x 1/4 pouce Pointe-Bague-Manchon
Entrées pour amplificateur principal(Niveau Ligne)	2 x 1/4 pouce Pointe-Bague-Manchon
Sorties Moniteur (Niveau Ligne)	1 x 1/4 pouce Pointe-Bague-Manchon
Sorties - Amp A - Jacks 1/4-pouce	2
Sorties - Amp A - prise Speakon 4-tiges	1
Sorties - Amp B - Jacks 1/4-pouce	2
Sorties - Amp B - prise Speakon 4-tiges	1
Mixeur - Rapport Signal Bruit (dB)	101
Mixeur - Réponse en fréquence (Contrôle Tone et EQ Flat,+/-2dB)	20 - 20,000
Mixeur - Bruit d'entré déféré à la sortie ligne @ 150 Ohms (dBv)	-119
DHT Mixeur (Sorties principales avec entrée -10dB)	0.01%
Puissance de sortie Amp A @ 8 ohms (0%1"DHT, 1kHz)	600
Puissance de sortie Amp A @ 4 ohms	800
Puissance de sortie Amp A -autre	600 @ 2 ohms
Puissance de sortie Amp B @ 8 ohms (0%1"DHT, 1kHz)	600
Puissance de sortie Amp B @ 4 ohms	800
Puissance de sortie Amp B -autre	600 @ 2 ohms
DHT - 1kHz (dB)	0.1%
DHT - 20Hz-20kHz (dB)	0.5%
Bruit et bourdonnement (non / pondéré -dB)	-101
Transmodulation typique -1 kHz (dB)	meilleur que -60db
Impédance d'entrée - sym/asym (ohms)	20k / 10k ohms
Sensibilité d'entrée (Vrms Sin)	1.4
Rapport de réjection en mode commun @ 60Hz (min/typ)	-37db / -60db
Gain de Votage Max (dB)	32
Consommation de puissance (typ/max)	770VA / 500VA
Protection	Thermique, Court-Circuit, surcharge d'impédance Overload
Refroidissement	2 x ventilateurs de 80mm
Transformateur- Type	Toroïdal
Finition	Gris et noire
Construction du châssis	acier et aluminium
Montage en rack	Oui (trousse disponible)
Autres caractéristiques	Inclinable
Dimensions (PLH, pouces)	11.1 x 18.6 x 11
Dimensions (PLH, cm)	28 x 47 x 28
Poids (lives/kg)	31.3 / 14.2

Block Diagram for M810 / M1610

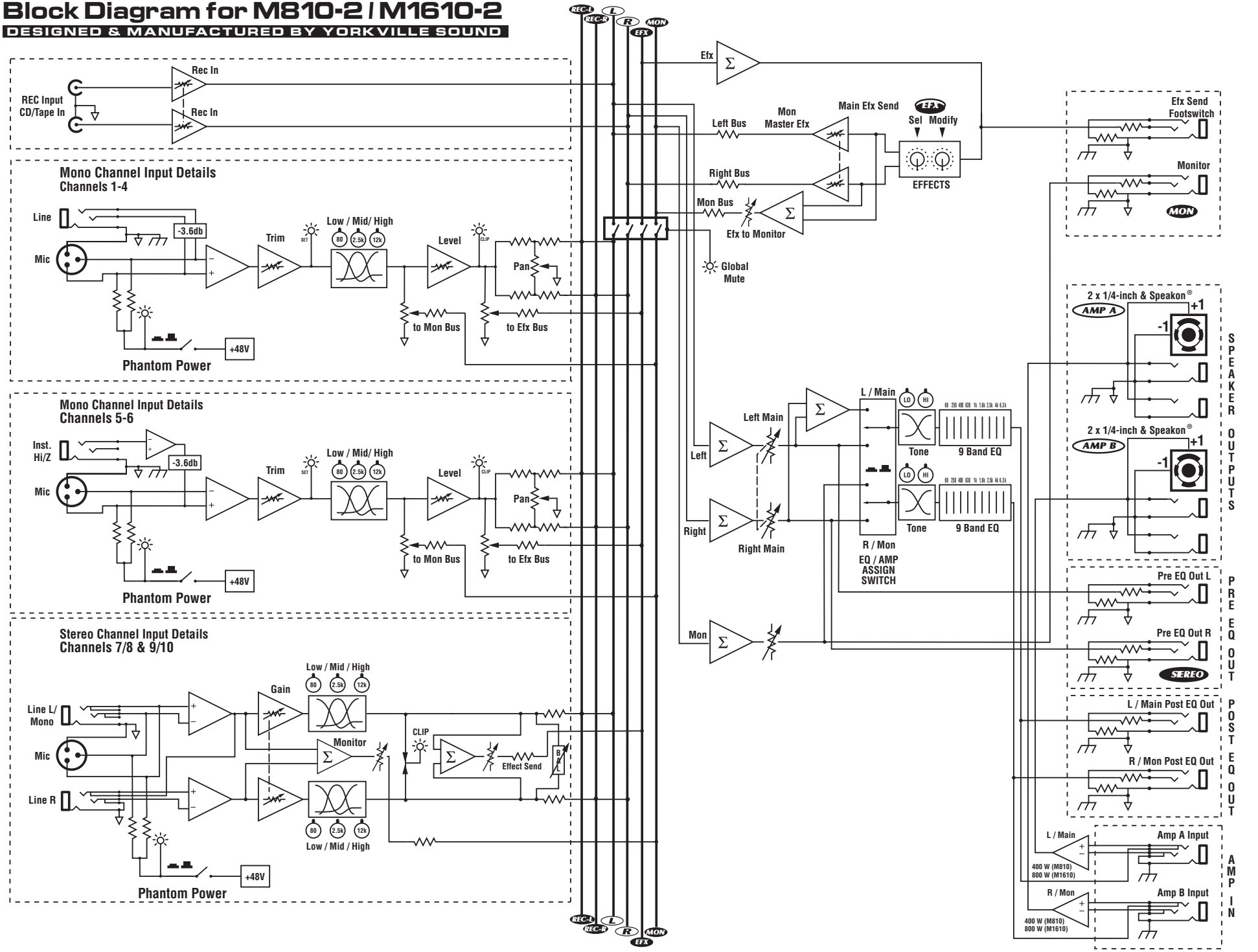
DESIGNED & MANUFACTURED BY YORKVILLE SOUND



BLOCK-DIAG-m810-m1610-00-1v2.ai

Block Diagram for M810-2 / M1610-2

DESIGNED & MANUFACTURED BY YORKVILLE SOUND



BLOCK-DIAG-m810-m1610-SERIES-2-00-2v1.ai

M1189 07 PG1 Parts Reference List 10/30/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M1189-59	M1610 MIXER BOARD	C16A	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C48		47P 100V 5%CAP 0805 SMT NPO	C104E		33N 50V 5%CAP 0805 SMT X7R	D10E		CDSF4148 75V 0A15 1005 SMT
C1		100N 50V 5%CAP 0805 SMT X7R	C16B	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C49		47P 100V 5%CAP 0805 SMT NPO	C104F		33N 50V 5%CAP 0805 SMT X7R	D10F		CDSF4148 75V 0A15 1005 SMT
C1A_	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C16C	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C50		47P 100V 5%CAP 0805 SMT NPO	C105	5631	22U 50V 20%CAP T&R 6X7MM .2EL	D12A		CDSF4148 75V 0A15 1005 SMT
C1C_	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C16D	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C51		47P 100V 5%CAP 0805 SMT NPO	C106		47P 100V 5%CAP 0805 SMT NPO	D12B		CDSF4148 75V 0A15 1005 SMT
C1E_	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C16E	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C52		47P 100V 5%CAP 0805 SMT NPO	C107		47P 100V 5%CAP 0805 SMT NPO	D12C		CDSF4148 75V 0A15 1005 SMT
C1G_	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C16F	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C53		47P 100V 5%CAP 0805 SMT NPO	C108	5631	22U 50V 20%CAP T&R 6X7MM .2EL	D12D		CDSF4148 75V 0A15 1005 SMT
C2	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C17A		22N 50V 10%CAP 0805 SMT X7R	C54	5961	33U 16V 20%CAP T&R RAD .2IN NP	C108A	5282	10U 16V 20%CAP T&R 5X7MM .2NP	D12E		CDSF4148 75V 0A15 1005 SMT
C2A	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C17B		22N 50V 10%CAP 0805 SMT X7R	C55	5961	33U 16V 20%CAP T&R RAD .2IN NP	C108B	5282	10U 16V 20%CAP T&R 5X7MM .2NP	D12F		CDSF4148 75V 0A15 1005 SMT
C2B	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C17C		22N 50V 10%CAP 0805 SMT X7R	C56		47P 100V 5%CAP 0805 SMT NPO	C108C	5282	10U 16V 20%CAP T&R 5X7MM .2NP	D17		CDSF4148 75V 0A15 1005 SMT
C2C	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C17D		22N 50V 10%CAP 0805 SMT X7R	C57		47P 100V 5%CAP 0805 SMT NPO	C108D	5282	10U 16V 20%CAP T&R 5X7MM .2NP	D18		CDSF4148 75V 0A15 1005 SMT
C2D	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C17E		22N 50V 10%CAP 0805 SMT X7R	C58		47P 100V 5%CAP 0805 SMT NPO	C108E	5282	10U 16V 20%CAP T&R 5X7MM .2NP	D19		CDSF4148 75V 0A15 1005 SMT
C2E	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C17F		22N 50V 10%CAP 0805 SMT X7R	C59	5255	1U 63V 20%CAP T&R RAD UGT 5254	C108F	5282	10U 16V 20%CAP T&R 5X7MM .2NP	D20		CDSF4148 75V 0A15 1005 SMT
C2F	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C18A		18N 25V 10%CAP 0805 SMT X7R	C61L		470N 50V 5%CAP 1206 SMT CER	C109E		4N7 50V 10%CAP 0805 SMT X7R	D28		CDSF4148 75V 0A15 1005 SMT
C3		220N 50V 10%CAP 1206 SMT X7R	C18B		18N 25V 10%CAP 0805 SMT X7R	C61R		470N 50V 5%CAP 1206 SMT CER	C109F		4N7 50V 10%CAP 0805 SMT X7R	D29		CDSF4148 75V 0A15 1005 SMT
C3A	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C18C		18N 25V 10%CAP 0805 SMT X7R	C62L		33N 50V 5%CAP 0805 SMT X7R	C110		100N 50V 5%CAP 0805 SMT X7R	D30		CDSF4148 75V 0A15 1005 SMT
C3B	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C18D		18N 25V 10%CAP 0805 SMT X7R	C62R		33N 50V 5%CAP 0805 SMT X7R	C111		100N 50V 5%CAP 0805 SMT X7R	D31		CDSF4148 75V 0A15 1005 SMT
C3C	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C18E		18N 25V 10%CAP 0805 SMT X7R	C63L		330N 50V 5%CAP 1206 SMT X7R	C112		100N 50V 5%CAP 0805 SMT X7R	D32		CDSF4148 75V 0A15 1005 SMT
C3D	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C18F		18N 25V 10%CAP 0805 SMT X7R	C63R		330N 50V 5%CAP 1206 SMT X7R	C113		100N 50V 5%CAP 0805 SMT X7R	D33		CDSF4148 75V 0A15 1005 SMT
C3E	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C19A		22N 50V 10%CAP 0805 SMT X7R	C64L		220N 50V 5%CAP 1206 SMT X7R	C115		100N 50V 5%CAP 0805 SMT X7R	D34		CDSF4148 75V 0A15 1005 SMT
C3F	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C19B		22N 50V 10%CAP 0805 SMT X7R	C64R		220N 50V 5%CAP 1206 SMT X7R	C116		3N3 25V 5%CAP 0805 SMT NPO	D35		CDSF4148 75V 0A15 1005 SMT
C4	5255	1U 63V 20%CAP T&R RAD UGT 5254	C19C		22N 50V 10%CAP 0805 SMT X7R	C65L		150N 50V 5%CAP 0805 SMT X7R	C117		3N3 25V 5%CAP 0805 SMT NPO	J1A	3921	1/4" JCK PCB MT VERT STER RT SWT
C4A_		2N2 50V 10%CAP 0805 SMT X7R	C19D		22N 50V 10%CAP 0805 SMT X7R	C65R		150N 50V 5%CAP 0805 SMT X7R	C118		100N 50V 5%CAP 0805 SMT X7R	J1B	3921	1/4" JCK PCB MT VERT STER RT SWT
C4C_		2N2 50V 10%CAP 0805 SMT X7R	C19E		22N 50V 10%CAP 0805 SMT X7R	C66L		68N 50V 5%CAP 0805 SMT X7R	C119		100N 50V 5%CAP 0805 SMT X7R	J1C	3921	1/4" JCK PCB MT VERT STER RT SWT
C4E_		2N2 50V 10%CAP 0805 SMT X7R	C19F		22N 50V 10%CAP 0805 SMT X7R	C66R		68N 50V 5%CAP 0805 SMT X7R	C121		100N 50V 5%CAP 0805 SMT X7R	J1D	3921	1/4" JCK PCB MT VERT STER RT SWT
C4G_		2N2 50V 10%CAP 0805 SMT X7R	C20A		1N5 50V 5%CAP 0805 SMT NPO	C67L		47N 25V 5%CAP 0805 SMT X7R	C128		100N 50V 5%CAP 0805 SMT X7R	J1E	3921	1/4" JCK PCB MT VERT STER RT SWT
C5A		1N 50V 5%CAP 0805 SMT NPO	C20B		1N5 50V 5%CAP 0805 SMT NPO	C67R		47N 25V 5%CAP 0805 SMT X7R	C129		100N 50V 5%CAP 0805 SMT X7R	J1F	3921	1/4" JCK PCB MT VERT STER RT SWT
C5B		1N 50V 5%CAP 0805 SMT NPO	C20C		1N5 50V 5%CAP 0805 SMT NPO	C68L		33N 50V 5%CAP 0805 SMT X7R	C130		3N3 25V 5%CAP 0805 SMT NPO	J2A	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
C5C		1N 50V 5%CAP 0805 SMT NPO	C20D		1N5 50V 5%CAP 0805 SMT NPO	C68R		33N 50V 5%CAP 0805 SMT X7R	C131		3N3 25V 5%CAP 0805 SMT NPO	J2B	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
C5D		1N 50V 5%CAP 0805 SMT NPO	C20E		1N5 50V 5%CAP 0805 SMT NPO	C69		47P 100V 5%CAP 0805 SMT NPO	C150A		100N 50V 5%CAP 0805 SMT X7R	J2C	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
C5E		1N 50V 5%CAP 0805 SMT NPO	C20F		1N5 50V 5%CAP 0805 SMT NPO	C70L		22N 50V 5%CAP 0805 SMT X7R	C150B		100N 50V 5%CAP 0805 SMT X7R	J2D	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
C5F		1N 50V 5%CAP 0805 SMT NPO	C21A	5961	33U 16V 20%CAP T&R RAD .2IN NP	C70R		22N 50V 5%CAP 0805 SMT X7R	C150C		100N 50V 5%CAP 0805 SMT X7R	J2E	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
C6A		1N 50V 5%CAP 0805 SMT NPO	C21B	5961	33U 16V 20%CAP T&R RAD .2IN NP	C71L		15N 50V 5%CAP 0805 SMT C0G	C150D		100N 50V 5%CAP 0805 SMT X7R	J2F	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
C6B		1N 50V 5%CAP 0805 SMT NPO	C21C	5961	33U 16V 20%CAP T&R RAD .2IN NP	C71R		15N 50V 5%CAP 0805 SMT C0G	C150E		100N 50V 5%CAP 0805 SMT X7R	J4G	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
C6C		1N 50V 5%CAP 0805 SMT NPO	C21D	5961	33U 16V 20%CAP T&R RAD .2IN NP	C72L		10N 50V 5%CAP 0805 SMT X7R	C150F		100N 50V 5%CAP 0805 SMT X7R	J4H	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
C6D		1N 50V 5%CAP 0805 SMT NPO	C21E	5961	33U 16V 20%CAP T&R RAD .2IN NP	C72R		10N 50V 5%CAP 0805 SMT X7R	C151A		100N 50V 5%CAP 0805 SMT X7R	J5G	3921	1/4" JCK PCB MT VERT STER RT SWT
C6E		1N 50V 5%CAP 0805 SMT NPO	C21F	5961	33U 16V 20%CAP T&R RAD .2IN NP	C73L		4N7 50V 5%CAP 0805 SMT X7R	C151B		100N 50V 5%CAP 0805 SMT X7R	J5H	3921	1/4" JCK PCB MT VERT STER RT SWT
C6F		1N 50V 5%CAP 0805 SMT NPO	C22		100N 50V 5%CAP 0805 SMT X7R	C73R		4N7 50V 5%CAP 0805 SMT X7R	C151C		100N 50V 5%CAP 0805 SMT X7R	J6G	3921	1/4" JCK PCB MT VERT STER RT SWT
C7A		47P 100V 5%CAP 0805 SMT NPO	C23G	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C74L		47N 25V 5%CAP 0805 SMT X7R	C151D		100N 50V 5%CAP 0805 SMT X7R	J6H	3921	1/4" JCK PCB MT VERT STER RT SWT
C7B		47P 100V 5%CAP 0805 SMT NPO	C23H	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C74R		47N 25V 5%CAP 0805 SMT X7R	C151E		100N 50V 5%CAP 0805 SMT X7R	J7	3466	RCA DUAL PCB MT VERT GOLD 24MM
C7C		47P 100V 5%CAP 0805 SMT NPO	C24		100N 50V 5%CAP 0805 SMT X7R	C75L		3N3 25V 5%CAP 0805 SMT NPO	C151F		100N 50V 5%CAP 0805 SMT X7R	J9	3466	RCA DUAL PCB MT VERT GOLD 24MM
C7D		47P 100V 5%CAP 0805 SMT NPO	C25G	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C75R		3N3 25V 5%CAP 0805 SMT NPO	C152A		100N 50V 5%CAP 0805 SMT X7R	J10	4182	1/4INJCK PCB MT VT ST RTS SW NJ6
C7E		47P 100V 5%CAP 0805 SMT NPO	C25H	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C76L		47P 100V 5%CAP 0805 SMT NPO	C152B		100N 50V 5%CAP 0805 SMT X7R	J11	4182	1/4INJCK PCB MT VT ST RTS SW NJ6
C7F		47P 100V 5%CAP 0805 SMT NPO	C26G		1N 50V 5%CAP 0805 SMT NPO	C76R		47P 100V 5%CAP 0805 SMT NPO	C152C		100N 50V 5%CAP 0805 SMT X7R	J14	3921	1/4" JCK PCB MT VERT STER RT SWT
C8A		47P 100V 5%CAP 0805 SMT NPO	C26H		1N 50V 5%CAP 0805 SMT NPO	C77L		33N 50V 5%CAP 0805 SMT X7R	C152D		100N 50V 5%CAP 0805 SMT X7R	J15	3921	1/4" JCK PCB MT VERT STER RT SWT
C8B		47P 100V 5%CAP 0805 SMT NPO	C27G		1N 50V 5%CAP 0805 SMT NPO	C77R		33N 50V 5%CAP 0805 SMT X7R	C152E		100N 50V 5%CAP 0805 SMT X7R	J16	3921	1/4" JCK PCB MT VERT STER RT SWT
C8C		47P 100V 5%CAP 0805 SMT NPO	C27H		1N 50V 5%CAP 0805 SMT NPO	C78L		2N2 50V 5%CAP 0805 SMT X7R	C152F		100N 50V 5%CAP 0805 SMT X7R	J17	3921	1/4" JCK PCB MT VERT STER RT SWT
C8D		47P 100V 5%CAP 0805 SMT NPO	C28G		1N 50V 5%CAP 0805 SMT NPO	C78R		2N2 50V 5%CAP 0805 SMT X7R	C153A		100N 50V 5%CAP 0805 SMT X7R	J18	3921	1/4" JCK PCB MT VERT STER RT SWT
C8E		47P 100V 5%CAP 0805 SMT NPO	C28H		1N 50V 5%CAP 0805 SMT NPO	C79L		33N 50V 5%CAP 0805 SMT X7R	C153B		100N 50V 5%CAP 0805 SMT X7R	J19	3921	1/4" JCK PCB MT VERT STER RT SWT
C8F		47P 100V 5%CAP 0805 SMT NPO	C29G		1N 50V 5%CAP 0805 SMT NPO	C79R		33N 50V 5%CAP 0805 SMT X7R	C153C		100N 50V 5%CAP 0805 SMT X7R	LD1	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C9A		220P 100V 10%CAP 0805 SMT X7R	C29H		1N 50V 5%CAP 0805 SMT NPO	C80	5255	1U 63V 20%CAP T&R RAD UGT 5254	C153D		100N 50V 5%CAP 0805 SMT X7R	LD1A	5908	GRN 3MM LED 1V9 20MA.4SPCER T&R
C9B		220P 100V 10%CAP 0805 SMT X7R	C30G	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C81L		22N 50V 5%CAP 0805 SMT X7R	C153E		100N 50V 5%CAP 0805 SMT X7R	LD1B	5908	GRN 3MM LED 1V9 20MA.4SPCER T&R
C9C		220P 100V 10%CAP 0805 SMT X7R	C30H	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C81R		22N 50V 5%CAP 0805 SMT X7R	C153F		100N 50V 5%CAP 0805 SMT X7R	LD1C	5908	GRN 3MM LED 1V9 20MA.4SPCER T&R
C9D		220P 100V 10%CAP 0805 SMT X7R	C31G	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C82L		1N5 50V 5%CAP 0805 SMT NPO	D1		5237B 8V2 0W2 SOT-23 SMT ZEN	LD1D	5908	GRN 3MM LED 1V9 20MA.4SPCER T&R
C9E		220P 100V 10%CAP 0805 SMT X7R	C31H	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C82R		1N5 50V 5%CAP 0805 SMT NPO	D1FX	5906	RED 3MM LED 1V9 20MA.4SPCER T&R	LD1E	5908	GRN 3MM LED 1V9 20MA.4SPCER T&R
C9F		220P 100V 10%CAP 0805 SMT X7R	C32G	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C83		2N7 100V 10%CAP 0805 SMT X7R	D2		CDSF4148 75V 0A15 1005 SMT	LD1F	5908	GRN 3MM LED 1V9 20MA.4SPCER T&R
C10A		220P 100V 10%CAP 0805 SMT X7R	C32H	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C84L		15N 50V 5%CAP 0805 SMT C0G	D2A		CDSF4148 75V 0A15 1005 SMT	LD2A	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C10B		220P 100V 10%CAP 0805 SMT X7R	C33G	5879	100U 16V 20%CAP T&R 8X7MM .2EL	C84R		15N 50V 5%CAP 0805 SMT C0G	D2B		CDSF4148 75V 0A15 1005 SMT	LD2B	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C10C		220P 100V 10%CAP 0805 SMT X7R	C33H	5879	100U 16V 20%CAP T&R 8X7MM .2EL	C85G		100N 50V 5%CAP 0805 SMT X7R	D2C		CDSF4148 75V 0A15 1005 SMT	LD2C	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C10D		220P 100V 10%CAP 0805 SMT X7R	C34G	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C85H		100N 50V 5%CAP 0805 SMT X7R	D2D		CDSF4148 75V 0A15 1005 SMT	LD2D	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C10E		220P 100V 10%CAP 0805 SMT X7R	C34H	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C86G		100N 50V 5%CAP 0805 SMT X7R	D2E		CDSF4148 75V 0A15 1005 SMT	LD2E	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C10F		220P 100V 10%CAP 0805 SMT X7R	C35G	5879	100U 16V 20%CAP T&R 8X7MM .2EL	C86H		100N 50V 5%CAP 0805 SMT X7R	D2F		CDSF4148 75V 0A15 1005 SMT	LD2F	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C12A	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C35H	5879	100U 16V 20%CAP T&R 8X7MM .2EL	C87		2N7 100V 10%CAP 0805 SMT X7R	D3		CDSF4148 75V 0A15 1005 SMT	LD3G	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C12B	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C36G	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C88	5255	1U 63V 20%CAP T&R RAD UGT 5254	D3A		CDSF4148 75V 0A15 1005 SMT	LD3H	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C12C	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C36H	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C89		100N 50V 5%CAP 0805 SMT X7R	D3B		CDSF4148 75V 0A15 1005 SMT	LD15	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C12D	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C37G	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C90		15P 50V 5%CAP 0603 SMT NPO	D3C		CDSF4148 75V 0A15 1005 SMT	LD16	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C12E	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C37H	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C91		100N 50V 5%CAP 0805 SMT X7R	D3D		CDSF4148 75V 0A15 1005 SMT	LD17	5906	RED 3MM LED 1V9 20MA.4SPCER T&R
C12F	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C38G		22N 50V 10%CAP 0805 SMT X7R	C92		100N 50V 5%CAP 0805 SMT X7R	D3E		CDSF4148 75V 0A15 1005 SMT	LD18	5908	GRN 3MM LED 1V9 20MA.4SPCER T&R
C13A	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C38H		22N 50V 10%CAP 0805 SMT X7R	C93	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	D3F		CDSF4148 75V 0A15 1005 SMT	P1A	4443	100K 5C R/A 9MM P32
C13B	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C39G		1N5 50V 5%CAP 0805 SMT NPO	C94	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	D4		CDSF4148 75V 0A15 1005 SMT	P1B	4443	100K 5C R/A 9MM P32
C13C	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C39H		1N5 50V 5%CAP 0805 SMT NPO	C95		100N 50V 5%CAP 0805 SMT X7R	D4G		CDSF4148 75V 0A15 1005 SMT	P1C	4443	100K 5C R/A 9MM P32
C13D	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C40G		22N 50V 10%CAP 0805 SMT X7R	C96		100N 50V 5%CAP 0805 SMT X7R	D4H		CDSF4148 75V 0A15 1005 SMT	P1D	4443	100K 5C R/A 9MM P32
C13E	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C40H		22N 50V 10%CAP 0805 SMT X7R	C97G		100N 50V 5%CAP 0805 SMT X7R	D5		CDSF4148 75V 0A15 1005 SMT	P1E	4443	100K 5C R/A 9MM P32
C13F	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C41G		1N5 50V 5%CAP 0805 SMT NPO	C97H		100N 50V 5%CAP 0805 SMT X7R	D5G		CDSF4148 75V 0A15 1005 SMT	P1F	4443	100K 5C R/A 9MM P32
C14		1N 50V 5%CAP 0805 SMT NPO	C41H		1N5 50V 5%CAP 0805 SMT NPO	C98G		100N 50V 5%CAP 0805 SMT X7R	D5H		CDSF4148 75V 0A15 1005 SMT	P2A	4435	50K B LIN 9MM DETENT P32
C15A		47P 100V 5%CAP 0805 SMT NPO	C42	5961	33U 16V 20%CAP T&R RAD .2IN NP	C98H		100N 50V 5%CAP 0805 SMT X7R	D8		5237B 8V2 0W2 SOT-23 SMT ZEN	P2B	4435	50K B LIN 9MM DETENT P32
C15B		47P 100V 5%CAP 0805 SMT NPO	C43	5961	33U 16V 20%CAP T&R RAD .2IN NP	C99		100N 50V 5%CAP 0805 SMT X7R	D9		5237B 8V2 0W2 SOT-23 SMT ZEN	P2C	4435	50K B LIN 9MM DETENT P32
C15C		47P 100V 5%CAP 0805 SMT NPO	C44	5961	33U 16V 20%CAP T&R RAD .2IN NP	C100		100N 50V 5%CAP 0805 SMT X7R	D10A		CDSF4148 75V 0A15 1005 SMT	P2D	4435	50K B LIN 9MM DETENT P32
C15D		47P 100V 5%CAP 0805 SMT NPO	C45	5961	33U 16V 20%CAP T&R RAD .2IN NP	C101		47P 100V 5%CAP 0805 SMT NPO	D10B		CDSF4148 75V 0A15 1005 SMT	P2E	4435	50K B LIN 9MM DETENT P32
C15E		47P 100V 5%CAP 0805 SMT NPO	C46	5961	33U 16V 20%CAP T&R RAD .2IN NP	C102	5961	33U 16V 20%CAP T&R RAD .2IN NP	D10C		CDSF4148 75V 0A15 1005 SMT	P2F	4435	50K B LIN 9MM DETENT P32
C15F		47P 100V 5%CAP 0805 SMT NPO	C47	5961	33U 16V 20%CAP T&R RAD .2IN NP	C103		100N 50V 5%CAP 0805 SMT X7R	D10D		CDSF4148 75V 0A15 1005 SMT	P3A	4434	10K B LIN 9MM DETENT P32

M1189 07 PG2 Parts Reference List 10/30/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
P3B	4434	10K B LIN 9MM DETENT P32	Q1A		MMBT3906LT1 PNP SOT-23 SMT T&R	R7B		W100 100R 1% 0805 SMT RES	R23A		W125 10K 5% 0805 SMT RES	R38F		W100 15K0 1% 0805 SMT RES
P3C	4434	10K B LIN 9MM DETENT P32	Q1B		MMBT3906LT1 PNP SOT-23 SMT T&R	R7C		W100 100R 1% 0805 SMT RES	R23B		W125 10K 5% 0805 SMT RES	R39A		W125 33K 5% 0805 SMT RES
P3D	4434	10K B LIN 9MM DETENT P32	Q1C		MMBT3906LT1 PNP SOT-23 SMT T&R	R7D		W100 100R 1% 0805 SMT RES	R23C		W125 10K 5% 0805 SMT RES	R39B		W125 33K 5% 0805 SMT RES
P3E	4434	10K B LIN 9MM DETENT P32	Q1D		MMBT3906LT1 PNP SOT-23 SMT T&R	R7E		W100 100R 1% 0805 SMT RES	R23D		W125 10K 5% 0805 SMT RES	R39C		W125 33K 5% 0805 SMT RES
P3F	4434	10K B LIN 9MM DETENT P32	Q1E		MMBT3906LT1 PNP SOT-23 SMT T&R	R7F		W100 100R 1% 0805 SMT RES	R23E		W125 10K 5% 0805 SMT RES	R39D		W125 33K 5% 0805 SMT RES
P4A	4434	10K B LIN 9MM DETENT P32	Q1F		MMBT3906LT1 PNP SOT-23 SMT T&R	R7FX		W100 100R 1% 0603 SMT RES	R23F		W125 10K 5% 0805 SMT RES	R39E		W125 33K 5% 0805 SMT RES
P4B	4434	10K B LIN 9MM DETENT P32	Q1L		MMBT3906LT1 PNP SOT-23 SMT T&R	R8A		W125 681R 1% 0805 SMT RES	R24		W100 10K0 1% 0805 SMT RES	R39F		W125 33K 5% 0805 SMT RES
P4C	4434	10K B LIN 9MM DETENT P32	Q1R		MMBT3906LT1 PNP SOT-23 SMT T&R	R8B		W125 681R 1% 0805 SMT RES	R25		W100 10K0 1% 0805 SMT RES	R40A		W125 470R 5% 0805 SMT RES
P4D	4434	10K B LIN 9MM DETENT P32	Q2A		MMBT3906LT1 PNP SOT-23 SMT T&R	R8C		W125 681R 1% 0805 SMT RES	R26A		W100 27K4 1% 0805 SMT RES	R40B		W125 470R 5% 0805 SMT RES
P4E	4434	10K B LIN 9MM DETENT P32	Q2B		MMBT3906LT1 PNP SOT-23 SMT T&R	R8D		W125 681R 1% 0805 SMT RES	R26B		W100 27K4 1% 0805 SMT RES	R40C		W125 470R 5% 0805 SMT RES
P4F	4434	10K B LIN 9MM DETENT P32	Q2C		MMBT3906LT1 PNP SOT-23 SMT T&R	R8E		W125 681R 1% 0805 SMT RES	R26C		W100 27K4 1% 0805 SMT RES	R40D		W125 470R 5% 0805 SMT RES
P5A	4432	10K B LIN 9MM P32	Q2D		MMBT3906LT1 PNP SOT-23 SMT T&R	R8F		W125 681R 1% 0805 SMT RES	R26D		W100 27K4 1% 0805 SMT RES	R40E		W125 470R 5% 0805 SMT RES
P5B	4432	10K B LIN 9MM P32	Q2E		MMBT3906LT1 PNP SOT-23 SMT T&R	R9A		W125 681R 1% 0805 SMT RES	R26E		W100 27K4 1% 0805 SMT RES	R40F		W125 470R 5% 0805 SMT RES
P5C	4432	10K B LIN 9MM P32	Q2F		MMBT3906LT1 PNP SOT-23 SMT T&R	R9B		W125 681R 1% 0805 SMT RES	R26F		W100 27K4 1% 0805 SMT RES	R41A		W100 4K75 1% 0805 SMT RES
P5D	4432	10K B LIN 9MM P32	Q2L		MMBT3906LT1 PNP SOT-23 SMT T&R	R9C		W125 681R 1% 0805 SMT RES	R27A		W100 220K 5% 0603 SMT RES	R41B		W100 4K75 1% 0805 SMT RES
P5E	4432	10K B LIN 9MM P32	Q2R		MMBT3906LT1 PNP SOT-23 SMT T&R	R9D		W125 681R 1% 0805 SMT RES	R27B		W100 220K 5% 0603 SMT RES	R41C		W100 4K75 1% 0805 SMT RES
P5F	4432	10K B LIN 9MM P32	Q3G		MMBT3906LT1 PNP SOT-23 SMT T&R	R9E		W125 681R 1% 0805 SMT RES	R27C		W100 220K 5% 0603 SMT RES	R41D		W100 4K75 1% 0805 SMT RES
P6A	4433	50K B LIN 9MM P32	Q3H		MMBT3906LT1 PNP SOT-23 SMT T&R	R9F		W125 681R 1% 0805 SMT RES	R27D		W100 220K 5% 0603 SMT RES	R41E		W100 4K75 1% 0805 SMT RES
P6B	4433	50K B LIN 9MM P32	Q4L		MMBT3906LT1 PNP SOT-23 SMT T&R	R10		W125 4M7 5% 0805 SMT RES	R27E		W100 220K 5% 0603 SMT RES	R41F		W100 4K75 1% 0805 SMT RES
P6C	4433	50K B LIN 9MM P32	Q4R		MMBT3906LT1 PNP SOT-23 SMT T&R	R10A		W100 10K0 1% 0805 SMT RES	R27F		W100 220K 5% 0603 SMT RES	R42A		W125 1K21 1% 0805 SMT RES
P6D	4433	50K B LIN 9MM P32	Q6L		MMBT3906LT1 PNP SOT-23 SMT T&R	R10B		W100 10K0 1% 0805 SMT RES	R28A		W125 10K 5% 0805 SMT RES	R42B		W125 1K21 1% 0805 SMT RES
P6E	4433	50K B LIN 9MM P32	Q6R		MMBT3906LT1 PNP SOT-23 SMT T&R	R10C		W100 10K0 1% 0805 SMT RES	R28B		W125 10K 5% 0805 SMT RES	R42C		W125 1K21 1% 0805 SMT RES
P6F	4433	50K B LIN 9MM P32	Q7		MMBT3904 NPN SOT-23 SMT	R10D		W100 10K0 1% 0805 SMT RES	R28C		W125 10K 5% 0805 SMT RES	R42D		W125 1K21 1% 0805 SMT RES
P7A	4433	50K B LIN 9MM P32	Q8		MMBT3904 NPN SOT-23 SMT	R10E		W100 10K0 1% 0805 SMT RES	R28D		W125 10K 5% 0805 SMT RES	R42E		W125 1K21 1% 0805 SMT RES
P7B	4433	50K B LIN 9MM P32	Q9		MMBT3904 NPN SOT-23 SMT	R10F		W100 10K0 1% 0805 SMT RES	R28E		W125 10K 5% 0805 SMT RES	R42F		W125 1K21 1% 0805 SMT RES
P7C	4433	50K B LIN 9MM P32	Q9L		MMBT3906LT1 PNP SOT-23 SMT T&R	R11A		W100 10K0 1% 0805 SMT RES	R28F		W125 10K 5% 0805 SMT RES	R43A		W100 18K2 1% 0805 SMT RES
P7D	4433	50K B LIN 9MM P32	Q9R		MMBT3906LT1 PNP SOT-23 SMT T&R	R11B		W100 10K0 1% 0805 SMT RES	R29A		W125 10K 5% 0805 SMT RES	R43B		W100 18K2 1% 0805 SMT RES
P7E	4433	50K B LIN 9MM P32	Q10L		MMBT3906LT1 PNP SOT-23 SMT T&R	R11C		W100 10K0 1% 0805 SMT RES	R29B		W125 10K 5% 0805 SMT RES	R43C		W100 18K2 1% 0805 SMT RES
P7F	4433	50K B LIN 9MM P32	Q10R		MMBT3906LT1 PNP SOT-23 SMT T&R	R11D		W100 10K0 1% 0805 SMT RES	R29C		W125 10K 5% 0805 SMT RES	R43D		W100 18K2 1% 0805 SMT RES
P8A	4434	10K B LIN 9MM DETENT P32	Q11L		MMBT3906LT1 PNP SOT-23 SMT T&R	R11E		W100 10K0 1% 0805 SMT RES	R29D		W125 10K 5% 0805 SMT RES	R43E		W100 18K2 1% 0805 SMT RES
P8B	4434	10K B LIN 9MM DETENT P32	Q11R		MMBT3906LT1 PNP SOT-23 SMT T&R	R11F		W100 10K0 1% 0805 SMT RES	R29E		W125 10K 5% 0805 SMT RES	R43F		W100 18K2 1% 0805 SMT RES
P8C	4434	10K B LIN 9MM DETENT P32	Q12		MMBTA14 NPN DARL SOT-23 SMT	R12A		W125 47R 5% 0805 SMT RES	R29F		W125 10K 5% 0805 SMT RES	R44A		W125 1K21 1% 0805 SMT RES
P8D	4434	10K B LIN 9MM DETENT P32	Q12L		MMBT3906LT1 PNP SOT-23 SMT T&R	R12B		W125 47R 5% 0805 SMT RES	R30A		W125 47K 5% 0805 SMT RES	R44B		W125 1K21 1% 0805 SMT RES
P8E	4434	10K B LIN 9MM DETENT P32	Q12R		MMBT3906LT1 PNP SOT-23 SMT T&R	R12C		W125 47R 5% 0805 SMT RES	R30B		W125 47K 5% 0805 SMT RES	R44C		W125 1K21 1% 0805 SMT RES
P8F	4434	10K B LIN 9MM DETENT P32	Q13		MMBT3904 NPN SOT-23 SMT	R12D		W125 47R 5% 0805 SMT RES	R30C		W125 47K 5% 0805 SMT RES	R44D		W125 1K21 1% 0805 SMT RES
P9G	4443	100K 5C R/A 9MM P32	Q13L		MMBT3906LT1 PNP SOT-23 SMT T&R	R12E		W125 47R 5% 0805 SMT RES	R30D		W125 47K 5% 0805 SMT RES	R44E		W125 1K21 1% 0805 SMT RES
P9H	4443	100K 5C R/A 9MM P32	Q13R		MMBT3906LT1 PNP SOT-23 SMT T&R	R12F		W125 47R 5% 0805 SMT RES	R30E		W125 47K 5% 0805 SMT RES	R44F		W125 1K21 1% 0805 SMT RES
P10G	4431	10K 5C R/A 12MM STEREO P34	Q14		MMBT3904 NPN SOT-23 SMT	R13A		W125 140K 1% 0805 SMT RES	R30F		W125 47K 5% 0805 SMT RES	R45A		W125 82K5 1% 0805 SMT RES
P10H	4431	10K 5C R/A 12MM STEREO P34	R1		W125 22K 5% 0805 SMT RES	R13B		W125 140K 1% 0805 SMT RES	R31A		W125 62K 5% 0805 SMT RES	R45B		W125 82K5 1% 0805 SMT RES
P11FX	6578	ROT BIN 18MM 4BIT ENCODER P23	R1A		W100 4K99 1% 0805 SMT RES	R13C		W125 140K 1% 0805 SMT RES	R31B		W125 62K 5% 0805 SMT RES	R45C		W125 82K5 1% 0805 SMT RES
P12FX	4434	10K B LIN 9MM DETENT P32	R1B		W100 4K99 1% 0805 SMT RES	R13D		W125 140K 1% 0805 SMT RES	R31C		W125 62K 5% 0805 SMT RES	R45D		W125 82K5 1% 0805 SMT RES
P12G	4439	50K B LIN 12MM STEREO DETENTP34	R1C		W100 4K99 1% 0805 SMT RES	R13E		W125 140K 1% 0805 SMT RES	R31D		W125 62K 5% 0805 SMT RES	R45E		W125 82K5 1% 0805 SMT RES
P12H	4439	50K B LIN 12MM STEREO DETENTP34	R1D		W100 4K99 1% 0805 SMT RES	R13F		W125 140K 1% 0805 SMT RES	R31E		W125 62K 5% 0805 SMT RES	R45F		W125 82K5 1% 0805 SMT RES
P13G	4438	10K B LIN 12MM STEREO DETENTP34	R1E		W100 4K99 1% 0805 SMT RES	R14A		W125 140K 1% 0805 SMT RES	R31F		W125 62K 5% 0805 SMT RES	R46A		W125 470R 5% 0805 SMT RES
P13H	4438	10K B LIN 12MM STEREO DETENTP34	R1F		W100 4K99 1% 0805 SMT RES	R14B		W125 140K 1% 0805 SMT RES	R32A		W125 22M0 5% 0805 SMT RES	R46B		W125 470R 5% 0805 SMT RES
P14G	4438	10K B LIN 12MM STEREO DETENTP34	R2		W125 22K 5% 0805 SMT RES	R14C		W125 140K 1% 0805 SMT RES	R32B		W125 22M0 5% 0805 SMT RES	R46C		W125 470R 5% 0805 SMT RES
P14H	4438	10K B LIN 12MM STEREO DETENTP34	R2A		W100 4K99 1% 0805 SMT RES	R14D		W125 140K 1% 0805 SMT RES	R32C		W125 22M0 5% 0805 SMT RES	R46D		W125 470R 5% 0805 SMT RES
P15G	4433	50K B LIN 9MM P32	R2B		W100 4K99 1% 0805 SMT RES	R14E		W125 140K 1% 0805 SMT RES	R32D		W125 22M0 5% 0805 SMT RES	R46E		W125 470R 5% 0805 SMT RES
P15H	4433	50K B LIN 9MM P32	R2C		W100 4K99 1% 0805 SMT RES	R14F		W125 140K 1% 0805 SMT RES	R32E		W125 22M0 5% 0805 SMT RES	R46F		W125 470R 5% 0805 SMT RES
P16G	4434	10K B LIN 9MM DETENT P32	R2D		W100 4K99 1% 0805 SMT RES	R15		W125 10K 5% 0805 SMT RES	R32F		W125 22M0 5% 0805 SMT RES	R47A		W100 4K75 1% 0805 SMT RES
P16H	4434	10K B LIN 9MM DETENT P32	R2E		W100 4K99 1% 0805 SMT RES	R15A		W100 10K0 1% 0805 SMT RES	R33		W100 10K0 1% 0805 SMT RES	R47B		W100 4K75 1% 0805 SMT RES
P17	4447	20K 15A AUD 12MM STEREO P34	R2F		W100 4K99 1% 0805 SMT RES	R15B		W100 10K0 1% 0805 SMT RES	R34A		W125 470R 5% 0805 SMT RES	R47C		W100 4K75 1% 0805 SMT RES
P18	4426	20K 4B LIN 9MM P32	R3		W100 182K 1% 0805 SMT RES	R15C		W100 10K0 1% 0805 SMT RES	R34B		W125 470R 5% 0805 SMT RES	R47D		W100 4K75 1% 0805 SMT RES
P19	4433	50K B LIN 9MM P32	R3A		W100 4K99 1% 0805 SMT RES	R15D		W100 10K0 1% 0805 SMT RES	R34C		W125 470R 5% 0805 SMT RES	R47E		W100 4K75 1% 0805 SMT RES
P20	4437	50K B LIN 12MM STEREO P34	R3C		W100 4K99 1% 0805 SMT RES	R15E		W100 10K0 1% 0805 SMT RES	R34D		W125 470R 5% 0805 SMT RES	R47F		W100 4K75 1% 0805 SMT RES
P21	4441	50K 4B LIN 12MM STEREO P34	R3E		W100 4K99 1% 0805 SMT RES	R15F		W100 10K0 1% 0805 SMT RES	R34E		W125 470R 5% 0805 SMT RES	R48A		W100 10M 1% 0805 SMT RES
P23	4437	50K B LIN 12MM STEREO P34	R3G		W100 4K99 1% 0805 SMT RES	R16		W125 10K 5% 0805 SMT RES	R34F		W125 470R 5% 0805 SMT RES	R48B		W100 10M 1% 0805 SMT RES
P25L	3998	20K 1B LIN 20MM DETENT S04	R4		W100 182K 1% 0805 SMT RES	R16A		W100 10K0 1% 0805 SMT RES	R35A		W100 15K0 1% 0805 SMT RES	R48C		W100 10M 1% 0805 SMT RES
P25R	3998	20K 1B LIN 20MM DETENT S04	R4A		W100 6K98 1% 0805 SMT RES	R16B		W100 10K0 1% 0805 SMT RES	R35B		W100 15K0 1% 0805 SMT RES	R48D		W100 10M 1% 0805 SMT RES
P26L	3998	20K 1B LIN 20MM DETENT S04	R4B		W100 6K98 1% 0805 SMT RES	R16C		W100 10K0 1% 0805 SMT RES	R35C		W100 15K0 1% 0805 SMT RES	R48E		W100 10M 1% 0805 SMT RES
P26R	3998	20K 1B LIN 20MM DETENT S04	R4C		W100 6K98 1% 0805 SMT RES	R16D		W100 10K0 1% 0805 SMT RES	R35D		W100 15K0 1% 0805 SMT RES	R48F		W100 10M 1% 0805 SMT RES
P27L	3998	20K 1B LIN 20MM DETENT S04	R4D		W100 6K98 1% 0805 SMT RES	R16E		W100 10K0 1% 0805 SMT RES	R35E		W100 15K0 1% 0805 SMT RES	R49A		W125 10K 5% 0805 SMT RES
P27R	3998	20K 1B LIN 20MM DETENT S04	R4E		W100 6K98 1% 0805 SMT RES	R16F		W100 10K0 1% 0805 SMT RES	R35F		W100 15K0 1% 0805 SMT RES	R49B		W125 10K 5% 0805 SMT RES
P28L	3998	20K 1B LIN 20MM DETENT S04	R4F		W100 6K98 1% 0805 SMT RES	R17		W100 221R 1% 0805 SMT RES	R36A		W100 100R 1% 0603 SMT RES	R49C		W125 10K 5% 0805 SMT RES
P28R	3998	20K 1B LIN 20MM DETENT S04	R5		W125 47K 5% 0805 SMT RES	R17A		W100 4K99 1% 0805 SMT RES	R36B		W100 100R 1% 0603 SMT RES	R49D		W125 10K 5% 0805 SMT RES
P29L	3998	20K 1B LIN 20MM DETENT S04	R5A		W100 6K98 1% 0805 SMT RES	R17B		W100 4K99 1% 0805 SMT RES	R36C		W100 100R 1% 0603 SMT RES	R49E		W125 10K 5% 0805 SMT RES
P29R	3998	20K 1B LIN 20MM DETENT S04	R5B		W100 6K98 1% 0805 SMT RES	R17C		W100 4K99 1% 0805 SMT RES	R36D		W100 100R 1% 0603 SMT RES	R49F		W125 10K 5% 0805 SMT RES
P30L	3998	20K 1B LIN 20MM DETENT S04	R5C		W100 6K98 1% 0805 SMT RES	R17D		W100 4K99 1% 0805 SMT RES	R36E		W100 100R 1% 0603 SMT RES	R50A		W125 1K5 5% 0805 SMT RES
P30R	3998	20K 1B LIN 20MM DETENT S04	R5D		W100 6K98 1% 0805 SMT RES	R17E		W100 4K99 1% 0805 SMT RES	R36F		W100 100R 1% 0603 SMT RES	R50B		W125 1K5 5% 0805 SMT RES
P31L	3998	20K 1B LIN 20MM DETENT S04	R5E		W100 6K98 1% 0805 SMT RES	R17F		W100 4K99 1% 0805 SMT RES	R37A		W100 100R 1% 0603 SMT RES	R50C		W125 1K5 5% 0805 SMT RES
P31R	3998	20K 1B LIN 20MM DETENT S04	R5F		W100 6K98 1% 0805 SMT RES	R18		W125 10K 5% 0805 SMT RES	R37B		W100 100R 1% 0603 SMT RES	R50D		W125 1K5 5% 0805 SMT RES
P32L	3998	20K 1B LIN 20MM DETENT S04	R6		W100 150R 5% 0805 SMT RES	R18A		W100 4K99 1% 0805 SMT RES	R37C		W100 100R 1% 0603 SMT RES	R50E		W125 1K5 5% 0805 SMT RES
P32R	3998	20K 1B LIN 20MM DETENT S04	R6A		W100 100R 1% 0805 SMT RES	R18B		W100 4K99 1% 0805 SMT RES	R37D		W100 100R 1% 0603 SMT RES	R50F		W125 1K5 5% 0805 SMT RES
P34L	3998	20K 1B LIN 20MM DETENT S04	R6B		W100 100R 1% 0805 SMT RES	R18C		W100 4K99 1% 0805 SMT RES	R37E		W100 100R 1% 0603 SMT RES	R51A		W125 10K 5% 0805 SMT RES
P34R	3998	20K 1B LIN 20MM DETENT S04	R6C		W100 100R 1% 0805 SMT RES	R18D		W100 4K99 1% 0805 SMT RES	R37F		W100 100R 1% 0603 SMT RES	R51B		W125 10K 5% 0805 SMT RES
P35	4435	50K B LIN 9MM DETENT P32	R6D		W100 100R 1% 0805 SMT RES	R18E		W100 4K99 1% 0805 SMT RES	R38A		W100 15K0 1% 0805 SMT RES	R51C		W125 10K 5% 0805 SMT RES
P36	4435	50K B LIN 9MM DETENT P32	R6E		W100 100R 1% 0805 SMT RES	R18F		W100 4K99 1% 0805 SMT RES	R38B		W100 15K0 1% 0805 SMT RES	R51D		W125 10K 5% 0805 SMT RES
P37	4435	50K B LIN 9MM DETENT P32	R6F		W100 100R 1% 0805 SMT RES	R19		W100 1K0 1% 0805 SMT RES	R38C		W100 15K0 1% 0805 SMT RES	R51E		W125 10K 5% 0805 SMT RES
P38	4435	50K B LIN 9MM DETENT P32	R7		W125 10K 5% 0805 SMT RES	R21		W100 1K0 1% 0805 SMT RES	R38D		W100 15K0 1% 0805 SMT RES	R51F		W125 10K 5% 0805 SMT RES
PCB	M1189BLANK	1_OZ 1SD 192.4 SQIN 01PER M1610/810	R7A		W100 100R 1% 0805 SMT RES	R22		W100 10K0 1% 0805 SMT RES	R38E		W100 15K0 1% 0805 SMT RES	R52A		W125 10K 5% 0805 SMT RES

M1189 07 PG3 Parts Reference List 10/30/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R52B		W125 10K 5% 0805 SMT RES	R77H		W125 10K 5% 0805 SMT RES	R122		W125 10K 5% 0805 SMT RES	R183L		W100 7K50 1% 0805 SMT RES	R216C		W100 6K98 1% 0805 SMT RES
R52C		W125 10K 5% 0805 SMT RES	R78G		W125 10K 5% 0805 SMT RES	R123		W125 10K 5% 0805 SMT RES	R183R		W100 7K50 1% 0805 SMT RES	R216D		W100 6K98 1% 0805 SMT RES
R52D		W125 10K 5% 0805 SMT RES	R78H		W125 10K 5% 0805 SMT RES	R124		W125 10K 5% 0805 SMT RES	R184L		W100 150R 5% 0805 SMT RES	R216E		W100 6K98 1% 0805 SMT RES
R52E		W125 10K 5% 0805 SMT RES	R79G		W100 100R 1% 0603 SMT RES	R125A		W100 221R 1% 0805 SMT RES	R184R		W100 150R 5% 0805 SMT RES	R216F		W100 6K98 1% 0805 SMT RES
R52F		W125 10K 5% 0805 SMT RES	R79H		W100 100R 1% 0603 SMT RES	R125B		W100 221R 1% 0805 SMT RES	R185L		W100 15K0 1% 0805 SMT RES	R217A		W100 6K98 1% 0805 SMT RES
R53A		W125 1K5 5% 0805 SMT RES	R80G		W100 100R 1% 0603 SMT RES	R125C		W100 221R 1% 0805 SMT RES	R185R		W100 15K0 1% 0805 SMT RES	R217B		W100 6K98 1% 0805 SMT RES
R53B		W125 1K5 5% 0805 SMT RES	R80H		W100 100R 1% 0603 SMT RES	R125D		W100 221R 1% 0805 SMT RES	R186L		W125 750R 1% 0805 SMT RES	R217C		W100 6K98 1% 0805 SMT RES
R53C		W125 1K5 5% 0805 SMT RES	R81G		W100 475R 1% 0805 SMT RES	R125E		W100 221R 1% 0805 SMT RES	R186R		W125 750R 1% 0805 SMT RES	R217D		W100 6K98 1% 0805 SMT RES
R53D		W125 1K5 5% 0805 SMT RES	R81H		W100 475R 1% 0805 SMT RES	R125F		W100 221R 1% 0805 SMT RES	R187L		W100 15K0 1% 0805 SMT RES	R217E		W100 6K98 1% 0805 SMT RES
R53E		W125 1K5 5% 0805 SMT RES	R82G		W125 22K 5% 0805 SMT RES	R126G		W100 221R 1% 0805 SMT RES	R187R		W100 15K0 1% 0805 SMT RES	R217F		W100 6K98 1% 0805 SMT RES
R53F		W125 1K5 5% 0805 SMT RES	R82H		W125 22K 5% 0805 SMT RES	R126H		W100 221R 1% 0805 SMT RES	R188L		W100 15K0 1% 0805 SMT RES	R218A_		W100 4K99 1% 0805 SMT RES
R54A		W125 1K5 5% 0805 SMT RES	R83G		W125 82K5 1% 0805 SMT RES	R127		W125 10K 5% 0805 SMT RES	R188R		W100 15K0 1% 0805 SMT RES	R218C_		W100 4K99 1% 0805 SMT RES
R54B		W125 1K5 5% 0805 SMT RES	R83H		W125 82K5 1% 0805 SMT RES	R128		W125 10K 5% 0805 SMT RES	R189L		W100 15K0 1% 0805 SMT RES	R218E_		W100 4K99 1% 0805 SMT RES
R54C		W125 1K5 5% 0805 SMT RES	R84G		W125 82K5 1% 0805 SMT RES	R129		W125 10K 5% 0805 SMT RES	R189R		W100 15K0 1% 0805 SMT RES	R218G		W100 6K98 1% 0805 SMT RES
R54D		W125 1K5 5% 0805 SMT RES	R84H		W125 82K5 1% 0805 SMT RES	R130		W125 10K 5% 0805 SMT RES	R190L		W100 56K 1% 0603 SMT RES	R218G_		W100 4K99 1% 0805 SMT RES
R54E		W125 1K5 5% 0805 SMT RES	R85G		W100 4K75 1% 0805 SMT RES	R131		W100 10K0 1% 0805 SMT RES	R190R		W100 56K 1% 0603 SMT RES	R218H		W100 6K98 1% 0805 SMT RES
R54F		W125 1K5 5% 0805 SMT RES	R85H		W100 4K75 1% 0805 SMT RES	R132		W100 10K0 1% 0805 SMT RES	R191L		W100 7K50 1% 0805 SMT RES	R219A_		W100 4K99 1% 0805 SMT RES
R55A		W100 4K75 1% 0805 SMT RES	R86G		W125 470R 5% 0805 SMT RES	R133		W100 20K0 1% 0805 SMT RES	R191R		W100 7K50 1% 0805 SMT RES	R219C_		W100 4K99 1% 0805 SMT RES
R55B		W100 4K75 1% 0805 SMT RES	R86H		W125 470R 5% 0805 SMT RES	R134		W100 20K0 1% 0805 SMT RES	R192L		W125 750R 1% 0805 SMT RES	R219E_		W100 4K99 1% 0805 SMT RES
R55C		W100 4K75 1% 0805 SMT RES	R87G		W100 4K75 1% 0805 SMT RES	R135		W100 20K0 1% 0805 SMT RES	R192R		W125 750R 1% 0805 SMT RES	R219G		W100 6K98 1% 0805 SMT RES
R55D		W100 4K75 1% 0805 SMT RES	R87H		W100 4K75 1% 0805 SMT RES	R136		W100 20K0 1% 0805 SMT RES	R193L		W100 56K 1% 0603 SMT RES	R219G_		W100 4K99 1% 0805 SMT RES
R55E		W100 4K75 1% 0805 SMT RES	R88G		W125 470R 5% 0805 SMT RES	R137		W063 49R9 1% 0603 SMT RES	R193R		W100 56K 1% 0603 SMT RES	R219H		W100 6K98 1% 0805 SMT RES
R55F		W100 4K75 1% 0805 SMT RES	R88H		W125 470R 5% 0805 SMT RES	R138		W100 2K74 1% 0805 SMT RES	R194L		W100 7K50 1% 0805 SMT RES	R220A_		W100 4K99 1% 0805 SMT RES
R56A		W125 10K 5% 0805 SMT RES	R89G		W125 1K21 1% 0805 SMT RES	R139		W100 2K74 1% 0805 SMT RES	R194R		W100 7K50 1% 0805 SMT RES	R220C_		W100 4K99 1% 0805 SMT RES
R56B		W125 10K 5% 0805 SMT RES	R89H		W125 1K21 1% 0805 SMT RES	R140		W100 3K74 1% 0805 SMT RES	R195L		W125 681R 1% 0805 SMT RES	R220E_		W100 4K99 1% 0805 SMT RES
R56C		W125 10K 5% 0805 SMT RES	R90G		W125 1K21 1% 0805 SMT RES	R141		W125 2K2 5% 0805 SMT RES	R195R		W125 681R 1% 0805 SMT RES	R220G_		W100 6K98 1% 0805 SMT RES
R56D		W125 10K 5% 0805 SMT RES	R90H		W125 1K21 1% 0805 SMT RES	R142		W100 4K75 1% 0805 SMT RES	R196L		W100 56K 1% 0603 SMT RES	R220G_		W100 4K99 1% 0805 SMT RES
R56E		W125 10K 5% 0805 SMT RES	R91G		W125 82K5 1% 0805 SMT RES	R143		W125 1K21 1% 0805 SMT RES	R196R		W100 56K 1% 0603 SMT RES	R220H		W100 6K98 1% 0805 SMT RES
R56F		W125 10K 5% 0805 SMT RES	R91H		W125 82K5 1% 0805 SMT RES	R144		W100 10K0 1% 0805 SMT RES	R197L		W100 7K50 1% 0805 SMT RES	R221A_		W100 4K99 1% 0805 SMT RES
R57A		W125 10K 5% 0805 SMT RES	R92G		W125 82K5 1% 0805 SMT RES	R146		W100 10K0 1% 0805 SMT RES	R197R		W100 7K50 1% 0805 SMT RES	R221C_		W100 4K99 1% 0805 SMT RES
R57B		W125 10K 5% 0805 SMT RES	R92H		W125 82K5 1% 0805 SMT RES	R147		W100 10K0 1% 0805 SMT RES	R198L		W125 681R 1% 0805 SMT RES	R221E_		W100 4K99 1% 0805 SMT RES
R57C		W125 10K 5% 0805 SMT RES	R93G		W100 18K2 1% 0805 SMT RES	R148		W125 2K2 5% 0805 SMT RES	R198R		W125 681R 1% 0805 SMT RES	R221G		W100 6K98 1% 0805 SMT RES
R57D		W125 10K 5% 0805 SMT RES	R93H		W100 18K2 1% 0805 SMT RES	R149		W100 10K0 1% 0805 SMT RES	R199L		W100 100R 1% 0603 SMT RES	R221G_		W100 4K99 1% 0805 SMT RES
R57E		W125 10K 5% 0805 SMT RES	R94G		W100 18K2 1% 0805 SMT RES	R150		W100 10K0 1% 0805 SMT RES	R199R		W100 100R 1% 0603 SMT RES	R221H		W100 6K98 1% 0805 SMT RES
R57F		W125 10K 5% 0805 SMT RES	R94H		W100 18K2 1% 0805 SMT RES	R151		W100 10K0 1% 0805 SMT RES	R200L		W100 100R 1% 0603 SMT RES	R222G		W100 6K98 1% 0805 SMT RES
R58A		W125 10K 5% 0805 SMT RES	R95G		W125 470R 5% 0805 SMT RES	R152E		W125 22K 5% 0805 SMT RES	R200R		W100 100R 1% 0603 SMT RES	R222H		W100 6K98 1% 0805 SMT RES
R58B		W125 10K 5% 0805 SMT RES	R95H		W125 470R 5% 0805 SMT RES	R152F		W125 22K 5% 0805 SMT RES	R201L		W100 100R 1% 0603 SMT RES	R223G		W100 6K98 1% 0805 SMT RES
R58C		W125 10K 5% 0805 SMT RES	R96G		W125 470R 5% 0805 SMT RES	R154		W100 10K0 1% 0805 SMT RES	R201R		W100 100R 1% 0603 SMT RES	R223H		W100 6K98 1% 0805 SMT RES
R58D		W125 10K 5% 0805 SMT RES	R96H		W125 470R 5% 0805 SMT RES	R155		W100 1K0 1% 0805 SMT RES	R202L		W100 100R 1% 0603 SMT RES	R228E		W125 47K5 1% 0805 SMT RES
R58E		W125 10K 5% 0805 SMT RES	R97G		W125 4M7 5% 0805 SMT RES	R156		W100 1K0 1% 0805 SMT RES	R202R		W100 100R 1% 0603 SMT RES	R228F		W125 47K5 1% 0805 SMT RES
R58F		W125 10K 5% 0805 SMT RES	R97H		W125 4M7 5% 0805 SMT RES	R157		W063 10R 5% 0603 SMT RES	R203L		W100 100R 1% 0603 SMT RES	R232		W100 20K0 1% 0805 SMT RES
R59A		W125 10K 5% 0805 SMT RES	R98G		W125 4M7 5% 0805 SMT RES	R158		W100 1K0 1% 0805 SMT RES	R203R		W100 100R 1% 0603 SMT RES	R234E		W100 4K75 1% 0805 SMT RES
R59B		W125 10K 5% 0805 SMT RES	R98H		W125 4M7 5% 0805 SMT RES	R159		W100 1K0 1% 0805 SMT RES	R204L		W100 100R 1% 0603 SMT RES	R234F		W100 4K75 1% 0805 SMT RES
R59C		W125 10K 5% 0805 SMT RES	R99G		W100 4K75 1% 0805 SMT RES	R160		W063 10R 5% 0603 SMT RES	R204R		W100 100R 1% 0603 SMT RES	R235		W250 619R0 1% 1206 SMT RES
R59D		W125 10K 5% 0805 SMT RES	R99H		W100 4K75 1% 0805 SMT RES	R161		W100 10K0 1% 0805 SMT RES	R205L		W100 100R 1% 0603 SMT RES	R236		W250 619R0 1% 1206 SMT RES
R59E		W125 10K 5% 0805 SMT RES	R100G		W125 1K21 1% 0805 SMT RES	R162		W100 10K0 1% 0805 SMT RES	R205R		W100 100R 1% 0603 SMT RES	R237		W250 619R0 1% 1206 SMT RES
R59F		W125 10K 5% 0805 SMT RES	R100H		W125 1K21 1% 0805 SMT RES	R163		W100 10K0 1% 0805 SMT RES	R206L		W100 100R 1% 0603 SMT RES	R238		W250 619R0 1% 1206 SMT RES
R60G		W100 6K98 1% 0805 SMT RES	R101G		W100 4K75 1% 0805 SMT RES	R164		W250 619R0 1% 1206 SMT RES	R206R		W100 100R 1% 0603 SMT RES	R239		W250 619R0 1% 1206 SMT RES
R60H		W100 6K98 1% 0805 SMT RES	R101H		W100 4K75 1% 0805 SMT RES	R165		W250 619R0 1% 1206 SMT RES	R207L		W100 100R 1% 0603 SMT RES	R240		W100 10K0 1% 0805 SMT RES
R61G		W100 6K98 1% 0805 SMT RES	R102G		W125 1K21 1% 0805 SMT RES	R166		W250 619R0 1% 1206 SMT RES	R207R		W100 100R 1% 0603 SMT RES	R241		W100 10K0 1% 0805 SMT RES
R61H		W100 6K98 1% 0805 SMT RES	R102H		W125 1K21 1% 0805 SMT RES	R167		W125 10K 5% 0805 SMT RES	R208L		W125 47K 5% 0805 SMT RES	R242		W100 10K0 1% 0805 SMT RES
R63G		W100 3K74 1% 0805 SMT RES	R103G		W125 33K 5% 0805 SMT RES	R168		W125 10K 5% 0805 SMT RES	R208R		W125 47K 5% 0805 SMT RES	R243		W100 10K0 1% 0805 SMT RES
R63H		W100 3K74 1% 0805 SMT RES	R103H		W125 33K 5% 0805 SMT RES	R169L		W125 750R 1% 0805 SMT RES	R209L		W100 7K50 1% 0805 SMT RES	R244		W100 10K0 1% 0805 SMT RES
R64G		W100 3K74 1% 0805 SMT RES	R104G		W125 10K 5% 0805 SMT RES	R169R		W125 750R 1% 0805 SMT RES	R209R		W100 7K50 1% 0805 SMT RES	R245		W100 10K0 1% 0805 SMT RES
R64H		W100 3K74 1% 0805 SMT RES	R104H		W125 10K 5% 0805 SMT RES	R170L		W100 56K 1% 0603 SMT RES	R212A		W100 6K98 1% 0805 SMT RES	R246		W250 619R0 1% 1206 SMT RES
R65G		W125 4K12 1% 0805 SMT RES	R105G		W100 4K75 1% 0805 SMT RES	R170R		W100 56K 1% 0603 SMT RES	R212B		W100 6K98 1% 0805 SMT RES	R247		W100 10K0 1% 0805 SMT RES
R65H		W125 4K12 1% 0805 SMT RES	R105H		W100 4K75 1% 0805 SMT RES	R171L		W100 7K50 1% 0805 SMT RES	R212C		W100 6K98 1% 0805 SMT RES	R248		W100 10K0 1% 0805 SMT RES
R66G		W125 4K12 1% 0805 SMT RES	R106G		W125 10K 5% 0805 SMT RES	R171R		W100 7K50 1% 0805 SMT RES	R212D		W100 6K98 1% 0805 SMT RES	R249		W250 619R0 1% 1206 SMT RES
R66H		W125 4K12 1% 0805 SMT RES	R106H		W125 10K 5% 0805 SMT RES	R172L		W125 681R 1% 0805 SMT RES	R212E		W100 6K98 1% 0805 SMT RES	R250		W100 10K0 1% 0805 SMT RES
R67G		W125 249R0 1% 0805 SMT RES	R107G		W125 1K5 5% 0805 SMT RES	R172R		W125 681R 1% 0805 SMT RES	R212F		W100 6K98 1% 0805 SMT RES	R251		W100 10K0 1% 0805 SMT RES
R67H		W125 249R0 1% 0805 SMT RES	R107H		W125 1K5 5% 0805 SMT RES	R173L		W100 56K 1% 0603 SMT RES	R213A		W100 6K98 1% 0805 SMT RES	R252		W250 619R0 1% 1206 SMT RES
R68G		W125 249R0 1% 0805 SMT RES	R108G		W125 1K5 5% 0805 SMT RES	R173R		W100 56K 1% 0603 SMT RES	R213B		W100 6K98 1% 0805 SMT RES	R253		W100 10K0 1% 0805 SMT RES
R68H		W125 249R0 1% 0805 SMT RES	R108H		W125 1K5 5% 0805 SMT RES	R174L		W100 7K50 1% 0805 SMT RES	R213C		W100 6K98 1% 0805 SMT RES	R254		W100 10K0 1% 0805 SMT RES
R69G		W125 562R0 1% 0805 SMT RES	R109G		W125 10K 5% 0805 SMT RES	R174R		W100 7K50 1% 0805 SMT RES	R213D		W100 6K98 1% 0805 SMT RES	R255		W250 619R0 1% 1206 SMT RES
R69H		W125 562R0 1% 0805 SMT RES	R109H		W125 10K 5% 0805 SMT RES	R175L		W125 681R 1% 0805 SMT RES	R213E		W100 6K98 1% 0805 SMT RES	R256		W100 10K0 1% 0805 SMT RES
R70G		W125 562R0 1% 0805 SMT RES	R110G		W125 10K 5% 0805 SMT RES	R175R		W125 681R 1% 0805 SMT RES	R213F		W100 6K98 1% 0805 SMT RES	R257		W100 10K0 1% 0805 SMT RES
R70H		W125 562R0 1% 0805 SMT RES	R110H		W125 10K 5% 0805 SMT RES	R176L		W100 56K 1% 0603 SMT RES	R214A		W100 6K98 1% 0805 SMT RES	R258		W100 10K0 1% 0805 SMT RES
R71G		W100 825R 1% 0805 SMT RES	R111G		W125 10K 5% 0805 SMT RES	R176R		W100 56K 1% 0603 SMT RES	R214B		W100 6K98 1% 0805 SMT RES	R259		W100 182K 1% 0805 SMT RES
R71H		W100 825R 1% 0805 SMT RES	R111H		W125 10K 5% 0805 SMT RES	R177L		W100 7K50 1% 0805 SMT RES	R214C		W100 6K98 1% 0805 SMT RES	R260E		W125 10K 5% 0805 SMT RES
R72G		W100 825R 1% 0805 SMT RES	R112G		W125 10K 5% 0805 SMT RES	R177R		W100 7K50 1% 0805 SMT RES	R214D		W100 6K98 1% 0805 SMT RES	R260F		W125 10K 5% 0805 SMT RES
R72H		W100 825R 1% 0805 SMT RES	R112H		W125 10K 5% 0805 SMT RES	R178L		W125 681R 1% 0805 SMT RES	R214E		W100 6K98 1% 0805 SMT RES	R261E		W125 10K 5% 0805 SMT RES
R73G		W100 4K99 1% 0805 SMT RES	R113		W100 1K0 1% 0805 SMT RES	R178R		W125 681R 1% 0805 SMT RES	R214F		W100 6K98 1% 0805 SMT RES	R261F		W125 10K 5% 0805 SMT RES
R73H		W100 4K99 1% 0805 SMT RES	R114		W100 20K5 1% 0805 SMT RES	R179L		W125 47K 5% 0805 SMT RES	R215A		W100 6K98 1% 0805 SMT RES	R262E		W125 1M 5% 0805 SMT RES
R74G		W100 4K99 1% 0805 SMT RES	R115		W100 20K5 1% 0805 SMT RES	R179R		W125 47K 5% 0805 SMT RES	R215B		W100 6K98 1% 0805 SMT RES	R262F		W125 1M 5% 0805 SMT RES
R74H		W100 4K99 1% 0805 SMT RES	R116		W250 100R 5% 1206 SMT RES	R180L		W100 7K50 1% 0805 SMT RES	R215C		W100 6K98 1% 0805 SMT RES	R269		W100 221R 1% 0805 SMT RES
R75G		W100 4K99 1% 0805 SMT RES	R117		W100 100R 1% 0805 SMT RES	R180R		W100 7K50 1% 0805 SMT RES	R215D		W100 6K98 1% 0805 SMT RES	R270		W125 33K 5% 0805 SMT RES
R75H		W100 4K99 1% 0805 SMT RES	R118		W125 10K 5% 0805 SMT RES	R181L		W125 681R 1% 0805 SMT RES	R215E		W100 6K98 1% 0805 SMT RES	R271		W125 33K 5% 0805 SMT RES
R76G		W100 4K99 1% 0805 SMT RES	R119		W250 619R0 1% 1206 SMT RES	R181R		W125 681R 1% 0805 SMT RES	R215F		W100 6K98 1% 0805 SMT RES	R272		W125 10K 5% 0805 SMT RES
R76H		W100 4K99 1% 0805 SMT RES	R120		W250 619R0 1% 1206 SMT RES	R182L		W100 56K 1% 0603 SMT RES	R216A		W100 6K98 1% 0805 SMT RES	R273		W125 33K 5% 0805 SMT RES
R77G		W125 10K 5% 0805 SMT RES	R121		W125 10K 5% 0805 SMT RES	R182R		W100 56K 1% 0603 SMT RES	R216B		W100 6K98 1% 0805 SMT RES	R274		W125 1K5 5% 0805 SMT RES

M1189 07 PG4 Parts Reference List 10/30/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R275		W100 221R 1% 0805 SMT RES												
R276		W125 8K25 1% 0805 SMT RES												
R277		W125 4M7 5% 0805 SMT RES												
R278		W100 182K 1% 0805 SMT RES												
R279		W125 47K 5% 0805 SMT RES												
R280		W100 4K75 1% 0805 SMT RES												
R281		W100 4K75 1% 0805 SMT RES												
R288		W125 47K 5% 0805 SMT RES												
R289		W125 47K 5% 0805 SMT RES												
R290		W125 8K25 1% 0805 SMT RES												
R291		W100 4K75 1% 0805 SMT RES												
R292		W125 4M7 5% 0805 SMT RES												
R293		W100 4K75 1% 0805 SMT RES												
S1	3522	DPDT MINI PC VERT SNP ALT												
S2	3440	4PDT MINI VERT ALT SWITCH												
U1		TL072 DUAL OPAMP SMT SO-8												
U1A		33078 DUAL OPAMP SMT SO-8												
U1B		33078 DUAL OPAMP SMT SO-8												
U1C		33078 DUAL OPAMP SMT SO-8												
U1D		33078 DUAL OPAMP SMT SO-8												
U1E		33078 DUAL OPAMP SMT SO-8												
U1F		33078 DUAL OPAMP SMT SO-8												
U2		TL072 DUAL OPAMP SMT SO-8												
U2A		TL072 DUAL OPAMP SMT SO-8												
U2B		TL072 DUAL OPAMP SMT SO-8												
U2C		TL072 DUAL OPAMP SMT SO-8												
U2D		TL072 DUAL OPAMP SMT SO-8												
U2E		TL072 DUAL OPAMP SMT SO-8												
U2F		TL072 DUAL OPAMP SMT SO-8												
U3A		TL072 DUAL OPAMP SMT SO-8												
U3B		TL072 DUAL OPAMP SMT SO-8												
U3C		TL072 DUAL OPAMP SMT SO-8												
U3D		TL072 DUAL OPAMP SMT SO-8												
U3E		TL072 DUAL OPAMP SMT SO-8												
U3F		TL072 DUAL OPAMP SMT SO-8												
U4		FV-1 SPIN SEMI REVERB SMT IC												
U4A		LM13700M XCONDUCTANC AMP SMT IC												
U4C		LM13700M XCONDUCTANC AMP SMT IC												
U4E		LM13700M XCONDUCTANC AMP SMT IC												
U5		24LC32A SER EEPROM MIX2-U3 YS DFX												
U6		TL074 QUAD OPAMP SMT SO14												
U7		MC33079D QUAD OPAMP SMT SO14												
U8		74LVC1G3157 IC SINGLE 1OF2 MUX												
U9		TL074 QUAD OPAMP SMT SO14												
U10		TL074 QUAD OPAMP SMT SO14												
U11		24LC32A SER EEPROM MIX2-U4 YS DFX												
U12		LM1117 REGULATOR 3V3 SMT SOT223												
U43E		TL072 DUAL OPAMP SMT SO-8												
U52		TL072 DUAL OPAMP SMT SO-8												
U55G		TL074 QUAD OPAMP SMT SO14												
U55H		TL074 QUAD OPAMP SMT SO14												
U57G		TL074 QUAD OPAMP SMT SO14												
U57H		TL074 QUAD OPAMP SMT SO14												
U58		TL072 DUAL OPAMP SMT SO-8												
W2	2329	12 CIR XH-HEADER 0.098IN												
W3	3966	GRN 16AWG PREFUSED WIRE												
X7	7913	32KHZ CRYSTAL 4-PIN FSRLF SMT												

M1190 PG1 Parts Reference List 2/18/2016

REF	YS #	Description
C1	6451	4N7 250V 20%CAP BLK 'Y' 10MM AC
C1A	5416	470P 50V 10%CAP T&R BEAD NPO
C1B	5416	470P 50V 10%CAP T&R BEAD NPO
C2	6435	22N 275V 20%CAP BLK 'X2' 15MM AC
C2A	5416	470P 50V 10%CAP T&R BEAD NPO
C2B	5416	470P 50V 10%CAP T&R BEAD NPO
C3	5266	680N 250V 20%CAP BLK 'X2' 30MM AC
C3A	5257	2U2 63V 20%CAP T&R RAD .2inEL
C3B	5257	2U2 63V 20%CAP T&R RAD .2inEL
C4A	5412	220P 100V 10%CAP T&R BEAD NPO
C4B	5412	220P 100V 10%CAP T&R BEAD NPO
C5A	5257	2U2 63V 20%CAP T&R RAD .2inEL
C5B	5257	2U2 63V 20%CAP T&R RAD .2inEL
C6A	5199	100P 100V 2%CAP T&R RAD CER.2inNPO
C6B	5199	100P 100V 2%CAP T&R RAD CER.2inNPO
C7A	5199	100P 100V 2%CAP T&R RAD CER.2inNPO
C7B	5199	100P 100V 2%CAP T&R RAD CER.2inNPO
C8A	5257	2U2 63V 20%CAP T&R RAD .2inEL
C8B	5257	2U2 63V 20%CAP T&R RAD .2inEL
C9A	5416	470P 50V 10%CAP T&R BEAD NPO
C9B	5416	470P 50V 10%CAP T&R BEAD NPO
C10A	5212	100N 63V 5%CAP T&R RAD .2inFLM
C10B	5212	100N 63V 5%CAP T&R RAD .2inFLM
C11A	5879	100U 16V 20%CAP T&R 8X7MM .2inEL
C11B	5879	100U 16V 20%CAP T&R 8X7MM .2inEL
C12A	5879	100U 16V 20%CAP T&R 8X7MM .2inEL
C12B	5879	100U 16V 20%CAP T&R 8X7MM .2inEL
C16A	5210	22N 100V 10%CAP T&R RAD .2inFLM
C16B	5210	22N 100V 10%CAP T&R RAD .2inFLM
C17A	5210	22N 100V 10%CAP T&R RAD .2inFLM
C17B	5210	22N 100V 10%CAP T&R RAD .2inFLM
C18A	5961	33U 16V 20%CAP T&R RAD .2inNP
C18B	5961	33U 16V 20%CAP T&R RAD .2inNP
C19A	5282	10U 16V 20%CAP T&R 5X7MM .2inNP
C19B	5282	10U 16V 20%CAP T&R 5X7MM .2inNP
C24A	5840	22N 400V 10%CAP BLK RAD POLY FLM
C24B	5840	22N 400V 10%CAP BLK RAD POLY FLM
C25A	5212	100N 63V 5%CAP T&R RAD .2inFLM
C25B	5212	100N 63V 5%CAP T&R RAD .2inFLM
C27A	5257	2U2 63V 20%CAP T&R RAD .2inEL
C27B	5257	2U2 63V 20%CAP T&R RAD .2inEL
C28A	5257	2U2 63V 20%CAP T&R RAD .2inEL
C28B	5257	2U2 63V 20%CAP T&R RAD .2inEL
C29A	5945	10U 63V 20%CAP T&R RAD .2inEL
C29B	5945	10U 63V 20%CAP T&R RAD .2inEL
C30A	5210	22N 100V 10%CAP T&R RAD .2inFLM
C30B	5210	22N 100V 10%CAP T&R RAD .2inFLM
C31A	5233	330N 63V 5%CAP T&R RAD .2inFLM
C31B	5233	330N 63V 5%CAP T&R RAD .2inFLM
C32	5898	8200U 50V 20%CAP BLK 25X50MM ELS
C33	5898	8200U 50V 20%CAP BLK 25X50MM ELS
C34	5898	8200U 50V 20%CAP BLK 25X50MM ELS
C35	5898	8200U 50V 20%CAP BLK 25X50MM ELS
C36	5898	8200U 50V 20%CAP BLK 25X50MM ELS
C37	5898	8200U 50V 20%CAP BLK 25X50MM ELS
C38A	5233	330N 63V 5%CAP T&R RAD .2inFLM
C38B	5233	330N 63V 5%CAP T&R RAD .2inFLM
C39A	5233	330N 63V 5%CAP T&R RAD .2inFLM
C39B	5233	330N 63V 5%CAP T&R RAD .2inFLM
C40	5879	100U 16V 20%CAP T&R 8X7MM .2inEL
C41	5879	100U 16V 20%CAP T&R 8X7MM .2inEL
C42	5879	100U 16V 20%CAP T&R 8X7MM .2inEL
C43A	5879	100U 16V 20%CAP T&R 8X7MM .2inEL
C43B	5879	100U 16V 20%CAP T&R 8X7MM .2inEL
C44A	5879	100U 16V 20%CAP T&R 8X7MM .2inEL
C44B	5879	100U 16V 20%CAP T&R 8X7MM .2inEL
C45A	5258	4U7 63V 20%CAP T&R 4X7MM .2inEL
C45B	5258	4U7 63V 20%CAP T&R 4X7MM .2inEL
C47	5618	470U 25V 20%CAP BLK 10X15MM EL
C48	5314	100N 50V 10%CAP T&R BEAD X7R
C49	5898	8200U 50V 20%CAP BLK 25X50MM ELS
C50	5896	4700U 80V 20%CAP BLK 25X50MM ELS
C51	5896	4700U 80V 20%CAP BLK 25X50MM ELS
C52	5898	8200U 50V 20%CAP BLK 25X50MM ELS
C53	5314	100N 50V 10%CAP T&R BEAD X7R
C54	5314	100N 50V 10%CAP T&R BEAD X7R
C55	5314	100N 50V 10%CAP T&R BEAD X7R
C56	5896	4700U 80V 20%CAP BLK 25X50MM ELS
C57	5896	4700U 80V 20%CAP BLK 25X50MM ELS
C57A	5212	100N 63V 5%CAP T&R RAD .2inFLM
C57B	5212	100N 63V 5%CAP T&R RAD .2inFLM
C58	5212	100N 63V 5%CAP T&R RAD .2inFLM
C59A	5212	100N 63V 5%CAP T&R RAD .2inFLM
C59B	5212	100N 63V 5%CAP T&R RAD .2inFLM
C60	5212	100N 63V 5%CAP T&R RAD .2inFLM
C66A	5212	100N 63V 5%CAP T&R RAD .2inFLM
C66B	5212	100N 63V 5%CAP T&R RAD .2inFLM
C67A	5273	1N5 200V 5%CAP T&R RAD CER.2inNPO
C67B	5273	1N5 200V 5%CAP T&R RAD CER.2inNPO
C68A	5199	100P 100V 2%CAP T&R RAD CER.2inNPO
C68B	5199	100P 100V 2%CAP T&R RAD CER.2inNPO
C69A	5199	100P 100V 2%CAP T&R RAD CER.2inNPO
C69B	5199	100P 100V 2%CAP T&R RAD CER.2inNPO
C70A	5257	2U2 63V 20%CAP T&R RAD .2inEL
C70B	5257	2U2 63V 20%CAP T&R RAD .2inEL
C133	5945	10U 63V 20%CAP T&R RAD .2inEL
C134	5260	22U 50V 20%CAP T&R RAD .2inEL
D1	6436	1N753ARL 6V2 0W5 ZENER 5% T&R
D1A	6825	1N4148 75V 0A45 DIODE T&R
D1B	6825	1N4148 75V 0A45 DIODE T&R
D2	5124	1N5338B 5V1 5W0 ZENER 5% T&R
D2A	6825	1N4148 75V 0A45 DIODE T&R
D2B	6825	1N4148 75V 0A45 DIODE T&R
D3	5124	1N5338B 5V1 5W0 ZENER 5% T&R
D3A	6825	1N4148 75V 0A45 DIODE T&R
D3B	6825	1N4148 75V 0A45 DIODE T&R
D4	5124	1N5338B 5V1 5W0 ZENER 5% T&R
D5	6438	1N4007 1000V 1A0 DIODE T&R
D5A	6439	1N5225B 3V0 0W5 ZENER 5% T&R
D5B	6439	1N5225B 3V0 0W5 ZENER 5% T&R
D6	6438	1N4007 1000V 1A0 DIODE T&R
D6A	6439	1N5225B 3V0 0W5 ZENER 5% T&R
D6B	6439	1N5225B 3V0 0W5 ZENER 5% T&R
D8A	6437	1N5237B 8V2 0W5 ZENER 5% T&R
D8B	6437	1N5237B 8V2 0W5 ZENER 5% T&R
D9A	6461	1N5240BRL 10V0 0W5 ZENER 5% T&R
D9B	6461	1N5240BRL 10V0 0W5 ZENER 5% T&R
D10A	6450	1N5242B 12V0 0W5 ZENER 5% T&R
D10B	6450	1N5242B 12V0 0W5 ZENER 5% T&R
D11A	6825	1N4148 75V 0A45 DIODE T&R
D11B	6825	1N4148 75V 0A45 DIODE T&R
D14A	6425	BAV21 200V 0A25 DIODE T&R
D14B	6425	BAV21 200V 0A25 DIODE T&R
D15A	6425	BAV21 200V 0A25 DIODE T&R
D15B	6425	BAV21 200V 0A25 DIODE T&R
D18A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D18B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D19A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D19B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D20A	6934	MR854 400V 3A0 DIODE FASREC
D20B	6934	MR854 400V 3A0 DIODE FASREC
D21A	6934	MR854 400V 3A0 DIODE FASREC
D21B	6934	MR854 400V 3A0 DIODE FASREC
D22A	6934	MR854 400V 3A0 DIODE FASREC
D22B	6934	MR854 400V 3A0 DIODE FASREC
D23A	6934	MR854 400V 3A0 DIODE FASREC
D23B	6934	MR854 400V 3A0 DIODE FASREC
D24A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D24B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D25A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D25B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D26A	6825	1N4148 75V 0A45 DIODE T&R
D26B	6825	1N4148 75V 0A45 DIODE T&R
D27A	6825	1N4148 75V 0A45 DIODE T&R
D27B	6825	1N4148 75V 0A45 DIODE T&R
D28A	6425	BAV21 200V 0A25 DIODE T&R
D28B	6425	BAV21 200V 0A25 DIODE T&R
D29A	6425	BAV21 200V 0A25 DIODE T&R
D29B	6425	BAV21 200V 0A25 DIODE T&R
D30A	6934	MR854 400V 3A0 DIODE FASREC
D30B	6934	MR854 400V 3A0 DIODE FASREC
D31A	6934	MR854 400V 3A0 DIODE FASREC
D31B	6934	MR854 400V 3A0 DIODE FASREC
D32A	6825	1N4148 75V 0A45 DIODE T&R
D32B	6825	1N4148 75V 0A45 DIODE T&R
D33A	6825	1N4148 75V 0A45 DIODE T&R
D33B	6825	1N4148 75V 0A45 DIODE T&R
D34A	6825	1N4148 75V 0A45 DIODE T&R
D34B	6825	1N4148 75V 0A45 DIODE T&R
D35A	6825	1N4148 75V 0A45 DIODE T&R
D35B	6825	1N4148 75V 0A45 DIODE T&R
D36A	6825	1N4148 75V 0A45 DIODE T&R
D36B	6825	1N4148 75V 0A45 DIODE T&R
D37A	6825	1N4148 75V 0A45 DIODE T&R
D37B	6825	1N4148 75V 0A45 DIODE T&R
D38A	6825	1N4148 75V 0A45 DIODE T&R
D38B	6825	1N4148 75V 0A45 DIODE T&R
D40A	6825	1N4148 75V 0A45 DIODE T&R
D40B	6825	1N4148 75V 0A45 DIODE T&R
D41A	6934	MR854 400V 3A0 DIODE FASREC
D41B	6934	MR854 400V 3A0 DIODE FASREC
D42A	6934	MR854 400V 3A0 DIODE FASREC
D42B	6934	MR854 400V 3A0 DIODE FASREC
D43A	6934	MR854 400V 3A0 DIODE FASREC
D43B	6934	MR854 400V 3A0 DIODE FASREC
D44A	6934	MR854 400V 3A0 DIODE FASREC
D44B	6934	MR854 400V 3A0 DIODE FASREC
D45A	6825	1N4148 75V 0A45 DIODE T&R
D45B	6825	1N4148 75V 0A45 DIODE T&R
D46A	6825	1N4148 75V 0A45 DIODE T&R
D46B	6825	1N4148 75V 0A45 DIODE T&R
D47A	6825	1N4148 75V 0A45 DIODE T&R
D47B	6825	1N4148 75V 0A45 DIODE T&R
D48A	6461	1N5240BRL 10V0 0W5 ZENER 5% T&R
D48B	6461	1N5240BRL 10V0 0W5 ZENER 5% T&R
D49A	6450	1N5242B 12V0 0W5 ZENER 5% T&R
D49B	6450	1N5242B 12V0 0W5 ZENER 5% T&R
D50A	6425	BAV21 200V 0A25 DIODE T&R
D50B	6425	BAV21 200V 0A25 DIODE T&R
D51A	6425	BAV21 200V 0A25 DIODE T&R
D51B	6425	BAV21 200V 0A25 DIODE T&R
D52A	6425	BAV21 200V 0A25 DIODE T&R
D52B	6425	BAV21 200V 0A25 DIODE T&R
D53A	6425	BAV21 200V 0A25 DIODE T&R
D53B	6425	BAV21 200V 0A25 DIODE T&R
D54A	6425	BAV21 200V 0A25 DIODE T&R
D54B	6425	BAV21 200V 0A25 DIODE T&R
D55A	6425	BAV21 200V 0A25 DIODE T&R
D55B	6425	BAV21 200V 0A25 DIODE T&R
D56	6825	1N4148 75V 0A45 DIODE T&R
D56A	6484	1N4740A 10V0 1W0 ZENER 5% T&R
D56B	6484	1N4740A 10V0 1W0 ZENER 5% T&R
D57	6825	1N4148 75V 0A45 DIODE T&R
D58	6825	1N4148 75V 0A45 DIODE T&R
D59	6419	BRIDGE 35A 400V WIRE LEAD GI3504
D60	6419	BRIDGE 35A 400V WIRE LEAD GI3504
D61	6419	BRIDGE 35A 400V WIRE LEAD GI3504
D62A	6825	1N4148 75V 0A45 DIODE T&R
D62B	6825	1N4148 75V 0A45 DIODE T&R
D63A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D63B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D64A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D64B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D65	6475	1N5262B 51V0 0W5 ZENER 5% T&R
D66A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D66B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D67A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D67B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D68A	6825	1N4148 75V 0A45 DIODE T&R
D68B	6825	1N4148 75V 0A45 DIODE T&R
D69A	6825	1N4148 75V 0A45 DIODE T&R
D69B	6825	1N4148 75V 0A45 DIODE T&R
D70A	6825	1N4148 75V 0A45 DIODE T&R
D70B	6825	1N4148 75V 0A45 DIODE T&R
D71	6465	1N5250B 20V0 0W5 ZENER 5% T&R
D71A	6425	BAV21 200V 0A25 DIODE T&R
D71B	6425	BAV21 200V 0A25 DIODE T&R
D72	6438	1N4007 1000V 1A0 DIODE T&R
D72A	6425	BAV21 200V 0A25 DIODE T&R
D72B	6425	BAV21 200V 0A25 DIODE T&R
D73A	6425	BAV21 200V 0A25 DIODE T&R
D73B	6425	BAV21 200V 0A25 DIODE T&R
D74A	6425	BAV21 200V 0A25 DIODE T&R
D74B	6425	BAV21 200V 0A25 DIODE T&R
H1A	3894	AAVID 5972-B H/S W/TAB B.O.
H1B	3894	AAVID 5972-B H/S W/TAB B.O.
H2A	3894	AAVID 5972-B H/S W/TAB B.O.
H2B	3894	AAVID 5972-B H/S W/TAB B.O.
H3	3894	AAVID 5972-B H/S W/TAB B.O.
J1A	3924	1/4in JCK PCB MT VERT 2XTIP HICURNT
J1B	3924	1/4in JCK PCB MT VERT 2XTIP HICURNT
J2A	3924	1/4in JCK PCB MT VERT 2XTIP HICURNT
J2B	3924	1/4in JCK PCB MT VERT 2XTIP HICURNT
J3A	3628	SPKON 4C PCB MT VERT 250TAB GRY #4
J3B	3628	SPKON 4C PCB MT VERT 250TAB GRY #4
K1A	3722	RELAY 1A 30AMP DC24 036MA PC-C
K1B	3722	RELAY 1A 30AMP DC24 036MA PC-C
L1A	3820	4UH COIL 14AWG ZOBEL HORIZONTAL
L1B	3820	4UH COIL 14AWG ZOBEL HORIZONTAL
P1A	4520	10K TRIM POT
P1B	4520	10K TRIM POT
Q1A	5101	BC550C TO92 NPN TRAN T&R TB
Q1B	5101	BC550C TO92 NPN TRAN T&R TB
Q2A	5101	BC550C TO92 NPN TRAN T&R TB
Q2B	5101	BC550C TO92 NPN TRAN T&R TB
Q3A	5101	BC550C TO92 NPN TRAN T&R TB
Q3B	5101	BC550C TO92 NPN TRAN T&R TB
Q4A	5102	BC560C TO92 PNP TRAN T&R TB
Q4B	5102	BC560C TO92 PNP TRAN T&R TB
Q5A	5107	2N5551 TO92 NPN TRAN T&R TA
Q5B	5107	2N5551 TO92 NPN TRAN T&R TA
Q6A	5108	2N5401 TO92 PNP TRAN T&R TA
Q6B	5108	2N5401 TO92 PNP TRAN T&R TA
Q7A	5106	MPSA63 TO92 PNP DARL T&R TA
Q7B	5106	MPSA63 TO92 PNP DARL T&R TA
Q8A	5113	MPSA42 TO92 NPN TRAN T&R TA
Q8B	5113	MPSA42 TO92 NPN TRAN T&R TA
Q9A	5101	BC550C TO92 NPN TRAN T&R TB
Q9B	5101	BC550C TO92 NPN TRAN T&R TB
Q10A	5103	MPSA06 TO92 NPN TRAN T&R TA
Q10B	5103	MPSA06 TO92 NPN TRAN T&R TA
Q11A	5104	MPSA56 TO92 PNP TRAN T&R TA
Q11B	5104	MPSA56 TO92 PNP TRAN T&R TA
Q12A	6909	MJ21196 TO3 NPN TRAN TH
Q12B	6909	MJ21196 TO3 NPN TRAN TH
Q13A	6910	MJ21195 TO3 PNP TRAN TH
Q13B	6910	MJ21195 TO3 PNP TRAN TH
Q14A	6966	IRL2910 TO220 NCH MFET TN
Q14B	6966	IRL2910 TO220 NCH MFET TN
Q15A	6966	IRL2910 TO220 NCH MFET TN
Q15B	6966	IRL2910 TO220 NCH MFET TN
Q16A	6808	MJE15032 TO220 NPN TRAN TE
Q16B	6808	MJE15032 TO220 NPN TRAN TE
Q17A	6809	MJE15033 TO220 PNP TRAN TE
Q17B	6809	MJE15033 TO220 PNP TRAN TE
Q18A	6953	IRF4905 TO220 PCH MFET
Q18B	6953	IRF4905 TO220 PCH MFET
Q19A	6953	IRF4905 TO220 PCH MFET
Q19B	6953	IRF4905 TO220 PCH MFET
Q20A	6874	MJE350 TO126 PNP TRAN TG
Q20B	6874	MJE350 TO126 PNP TRAN TG
Q21A	6873	MJE340 TO126 NPN TRAN TG
Q21B	6873	MJE340 TO126 NPN TRAN TG
Q22A	5102	BC560C TO92 PNP TRAN T&R TB
Q22B	5102	BC560C TO92 PNP TRAN T&R TB
Q23A	5108	2N5401 TO92 PNP TRAN T&R TA
Q23B	5108	2N5401 TO92 PNP TRAN T&R TA
Q24A	6966	IRL2910 TO220 NCH MFET TN
Q24B	6966	IRL2910 TO220 NCH MFET TN
Q25A	6966	IRL2910 TO220 NCH MFET TN
Q25B	6966	IRL2910 TO220 NCH MFET TN
Q26A	6909	MJ21196 TO3 NPN TRAN TH
Q26B	6909	MJ21196 TO3 NPN TRAN TH
Q27A	6910	MJ21195 TO3 PNP TRAN TH
Q27B	6910	MJ21195 TO3 PNP TRAN TH
Q28A	6953	IRF4905 TO220 PCH MFET
Q28B	6953	IRF4905 TO220 PCH MFET
Q29A	6953	IRF4905 TO220 PCH MFET
Q29B	6953	IRF4905 TO220 PCH MFET
Q30A	5105	MPSA13 TO92 NPN DARL T&R TA
Q30B	5105	MPSA13 TO92 NPN DARL T&R TA
Q31A	5101	BC550C TO92 NPN TRAN T&R TB
Q31B	5101	BC550C TO92 NPN TRAN T&R TB
Q32A	5101	BC550C TO92 NPN TRAN T&R TB
Q32B	5101	BC550C TO92 NPN TRAN T&R TB
Q33A	5102	BC560C TO92 PNP TRAN T&R TB
Q33B	5102	BC560C TO92 PNP TRAN T&R TB
Q35	6916	TIP107 TO220 PNP TRAN DARL TE
Q36A	6619	10K 3% THERMISTOR VISH NTC
Q36B	6619	10K 3% THERMISTOR VISH NTC
Q37	6774	BD139 TO126 NPN TRAN TG
Q38	5103	MPSA06 TO92 NPN TRAN T&R TA
Q39	5103	MPSA06 TO92 NPN TRAN T&R TA
R1	6129	1/4W 27K 5%MINI T&R RES
R1A	6116	1/4W 10K0 1%MINI MF T&R RES
R1B	6116	1/4W 10K0 1%MINI MF T&R RES
R2	4982	1/4W 4K7 5%MINI T&R RES
R2A	6116	1/4W 10K0 1%MINI MF T&R RES
R2B	6116	1/4W 10K0 1%MINI MF T&R RES
R3		GND LINK
R3A	6116	1/4W 10K0 1%MINI MF T&R RES
R3B	6116	1/4W 10K0 1%MINI MF T&R RES
R4A	6116	1/4W 10K0 1%MINI MF T&R RES
R4B	6116	1/4W 10K0 1%MINI MF T&R RES
R5A	4954	1/4W 18K 5% .2inU T&R RES
R5B	4954	1/4W 18K 5% .2inU T&R RES
R6A	6119	1/4W 47K 5%MINI T&R RES
R6B	6119	1/4W 47K 5%MINI T&R RES
R7A	4982	1/4W 4K7 5%MINI T&R RES
R7B	4982	1/4W 4K7 5%MINI T&R RES
R8A	6125	1/4W 18K 5%MINI T&R RES
R8B	6125	1/4W 18K 5%MINI T&R RES
R9A	2019	1/8W 100R0 1%FLAME PROOF T&R RES
R9B	2019	1/8W 100R0 1%FLAME PROOF T&R RES
R10A	2019	1/8W 100R0 1%FLAME PROOF T&R RES
R10B	2019	1/8W 100R0 1%FLAME PROOF T&R RES
R11A	4751	1/4W 22M 5% T&R RES
R11B	4751	1/4W 22M 5% T&R RES
R12A	4979	1/4W 15K 5%MINI T&R RES
R12B	4979	1/4W 15K 5%MINI T&R RES
R13A	6128	1/4W 4K99 1%MINI MF T&R RES
R13B	6128	1/4W 4K99 1%MINI MF T&R RES
R14A	4981	1/4W 1K 5%MINI T&R RES
R14B	4981	1/4W 1K 5%MINI T&R RES
R15A	4979	1/4W 15K 5%MINI T&R RES
R15B	4979	1/4W 15K 5%MINI T&R RES
R16A	4981	1/4W 1K 5%MINI T&R RES
R16B	4981	1/4W 1K 5%MINI T&R RES
R17A	6116	1/4W 10K0 1%MINI MF T&R RES
R17B	6116	1/4W 10K0 1%MINI MF T&R RES
R18A	6119	1/4W 47K 5%MINI T&R RES
R18B	6119	1/4W 47K 5%MINI T&R RES
R19A	6119	1/4W 47K 5%MINI T&R RES
R19B	6119	1/4W 47K 5%MINI T&R RES
R20A	6113	1/4W 2K 5%MINI T&R RES
R20B	6113	1/4W 2K 5%MINI T&R RES
R21A	6113	1/4W 2K 5%MINI T&R RES
R21B	6113	1/4W 2K 5%MINI T&R RES
R22A	6128	1/4W 4K99 1%MINI MF T&R RES
R22B	6128	1/4W 4K99 1%MINI MF T&R RES
R23A	6128	1/4W 4K99 1%MINI MF T&R RES
R23B	6128	1/4W 4K99 1%MINI MF T&R RES
R24A	6128	1/4W 4K99 1%MINI MF T&R RES
R24B	6128	1/4W 4K99 1%MINI MF T&R RES
R25A	6110	1/4W 1K0 1%MINI MF T&R RES
R25B	6110	1/4W 1K0 1%MINI MF T&R RES
R26A	6118	1/4W 22K 5%MINI T&R RES
R26B	6118	1/4W 22K 5%MINI T&R RES
R27A	6105	1/4W 1K8 5%MINI T&R RES
R27B	6105	1/4W 1K8 5%MINI T&R RES
R28A	6105	1/4W 1K8 5%MINI T&R RES
R28B	6105	1/4W 1K8 5%MINI T&R RES
R29A	6104	1/4W 2K2 5%MINI T&R RES
R29B	6104	1/4W 2K2 5%MINI T&R RES
R30A	6104	1/4W 2K2 5%MINI T&R RES
R30B	6104	1/4W 2K2 5%MINI T&R RES
R31A	4979	1/4W 15K 5%MINI T&R RES
R31B	4979	1/4W 15K 5%MINI T&R RES
R32A	6118	1/4W 22K 5%MINI T&R RES
R32B	6118	1/4W 22K 5%MINI T&R RES
R33A	6124	1/4W 3K 5%MINI T&R RES
R33B	6124	1/4W 3K 5%MINI T&R RES
R34A	6124	1/4W 3K 5%MINI T&R RES
R34B	6124	1/4W 3K 5%MINI T&R RES
R35A	4982	1/4W 4K7 5%MINI T&R RES
R35B	4982	1/4W 4K7 5%MINI T&R RES
R36A	6128	1/4W 4K99 1%MINI MF T&R RES
R36B	6128	1/4W 4K99 1%MINI MF T&R RES
R37A	6126	1/4W 220K 5%MINI T&R RES
R37B	6126	1/4W 220K 5%MINI T&R RES

M1190 PG2 Parts Reference List 2/18/2016

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R38A	6126	1/4W 220K 5%MINI T&R RES	R85A	6116	1/4W 10K0 1%MINI MF T&R RES	R285	4630	1/2W 15K 5% T&R RES						
R38B	6126	1/4W 220K 5%MINI T&R RES	R85B	6116	1/4W 10K0 1%MINI MF T&R RES	R286	4630	1/2W 15K 5% T&R RES						
R39A	6118	1/4W 22K 5%MINI T&R RES	R86A	6116	1/4W 10K0 1%MINI MF T&R RES	R287	4630	1/2W 15K 5% T&R RES						
R39B	6118	1/4W 22K 5%MINI T&R RES	R86B	6116	1/4W 10K0 1%MINI MF T&R RES	S2	3522	DPDT MINI PC VERT SNP ALT						
R40A	4982	1/4W 4K7 5%MINI T&R RES	R87A	4988	1/4W 1K5 5%MINI T&R RES	U1A	6882	TL072 IC FET DUAL OP AMP						
R40B	4982	1/4W 4K7 5%MINI T&R RES	R87B	4988	1/4W 1K5 5%MINI T&R RES	U1B	6882	TL072 IC FET DUAL OP AMP						
R41A	4911	1/4W 2R2 5% T&R RES	R88A	4850	1/4W 3K9 5% T&R RES	U2	6745	LM13600N IC XCONDUCTANCE AMP						
R41B	4911	1/4W 2R2 5% T&R RES	R88B	4850	1/4W 3K9 5% T&R RES	U3A	6889	TL074CN IC QUAD O/A T.I ONLY						
R42A	4911	1/4W 2R2 5% T&R RES	R90A	6122	1/4W 33K 5%MINI T&R RES	U3B	6889	TL074CN IC QUAD O/A T.I ONLY						
R42B	4911	1/4W 2R2 5% T&R RES	R90B	6122	1/4W 33K 5%MINI T&R RES	U4	6882	TL072 IC FET DUAL OP AMP						
R43A	2033	1/8W 1K 2%FLAME PROOF T&R RES	R91A	6119	1/4W 47K 5%MINI T&R RES	U5	6871	MC7915CT TO220 N 15V0 REG V2						
R43B	2033	1/8W 1K 2%FLAME PROOF T&R RES	R91B	6119	1/4W 47K 5%MINI T&R RES	U6	6872	MC7815CT TO220 P 15V0 REG V1						
R44A	2033	1/8W 1K 2%FLAME PROOF T&R RES	R92A	4943	1/4W 4K7 5% .2inU T&R RES	U7	6738	MC7805CT TO220 P 5V0 REG V1						
R44B	2033	1/8W 1K 2%FLAME PROOF T&R RES	R92B	4943	1/4W 4K7 5% .2inU T&R RES	W1	2329	12 CIR XH-HEADER 0.098IN						
R45A	4878	1/4W 43K 5% T&R RES	R93A	4745	5.0W 0R1 5% BLK RES	W2	3392	250 MALE TAB .2IN T&R						
R45B	4878	1/4W 43K 5% T&R RES	R93B	4745	5.0W 0R1 5% BLK RES	W3	3392	250 MALE TAB .2IN T&R						
R46A	4878	1/4W 43K 5% T&R RES	R94A	4745	5.0W 0R1 5% BLK RES	W4	3392	250 MALE TAB .2IN T&R						
R46B	4878	1/4W 43K 5% T&R RES	R94B	4745	5.0W 0R1 5% BLK RES	W5	3392	250 MALE TAB .2IN T&R						
R51A	2023	1/8W 220R0 1%FLAME PROOF T&R RES	R95A	2007	1/4W 1R 5%FLAME PROOF T&R RES	W6	3392	250 MALE TAB .2IN T&R						
R51B	2023	1/8W 220R0 1%FLAME PROOF T&R RES	R95B	2007	1/4W 1R 5%FLAME PROOF T&R RES	W7	3392	250 MALE TAB .2IN T&R						
R52A	2023	1/8W 220R0 1%FLAME PROOF T&R RES	R96A	2007	1/4W 1R 5%FLAME PROOF T&R RES	W8	3392	250 MALE TAB .2IN T&R						
R52B	2023	1/8W 220R0 1%FLAME PROOF T&R RES	R96B	2007	1/4W 1R 5%FLAME PROOF T&R RES	W15	4056	2 CIR XH-HEADER 0.098IN						
R53A	4745	5.0W 0R1 5% BLK RES	R97A	5018	1/4W 56K 5%MINI T&R RES	W16	4056	2 CIR XH-HEADER 0.098IN						
R53B	4745	5.0W 0R1 5% BLK RES	R97B	4835	1/4W 56K 5% T&R RES									
R54A	4745	5.0W 0R1 5% BLK RES	R98A	5018	1/4W 56K 5%MINI T&R RES									
R54B	4745	5.0W 0R1 5% BLK RES	R98B	4835	1/4W 56K 5% T&R RES									
R55A	2013	1/8W 22R1 1%FLAME PROOF T&R RES	R99	4709	5.0W 22R 5% BLK RES									
R55B	2013	1/8W 22R1 1%FLAME PROOF T&R RES	R100A	4809	1/4W 10M 5% T&R RES									
R58A	2023	1/8W 220R0 1%FLAME PROOF T&R RES	R100B	4809	1/4W 10M 5% T&R RES									
R58B	2023	1/8W 220R0 1%FLAME PROOF T&R RES	R101A	6126	1/4W 220K 5%MINI T&R RES									
R59A	2023	1/8W 220R0 1%FLAME PROOF T&R RES	R101B	6126	1/4W 220K 5%MINI T&R RES									
R59B	2023	1/8W 220R0 1%FLAME PROOF T&R RES	R102A	6119	1/4W 47K 5%MINI T&R RES									
R60A	2016	1/8W 39R 2%FLAME PROOF T&R RES	R102B	6119	1/4W 47K 5%MINI T&R RES									
R60B	2016	1/8W 39R 2%FLAME PROOF T&R RES	R103A	6119	1/4W 47K 5%MINI T&R RES									
R61A	2016	1/8W 39R 2%FLAME PROOF T&R RES	R103B	6119	1/4W 47K 5%MINI T&R RES									
R61B	2016	1/8W 39R 2%FLAME PROOF T&R RES	R104A	6118	1/4W 22K 5%MINI T&R RES									
R62A	2030	1/8W 681R 1%FLAME PROOF T&R RES	R104B	6118	1/4W 22K 5%MINI T&R RES									
R62B	2030	1/8W 681R 1%FLAME PROOF T&R RES	R105A	4982	1/4W 4K7 5%MINI T&R RES									
R63A	2030	1/8W 681R 1%FLAME PROOF T&R RES	R105B	4982	1/4W 4K7 5%MINI T&R RES									
R63B	2030	1/8W 681R 1%FLAME PROOF T&R RES	R106A	4868	1/4W 36K 5% T&R RES									
R64A	4777	1/4W 21K5 1% T&R RES	R106B	4868	1/4W 36K 5% T&R RES									
R64B	4777	1/4W 21K5 1% T&R RES	R107A	4982	1/4W 4K7 5%MINI T&R RES									
R66A	5031	1.0W 10K0 5% T&R	R107B	4982	1/4W 4K7 5%MINI T&R RES									
R66B	5031	1.0W 10K0 5% T&R	R108A	4982	1/4W 4K7 5%MINI T&R RES									
R67A	5031	1.0W 10K0 5% T&R	R108B	4982	1/4W 4K7 5%MINI T&R RES									
R67B	5031	1.0W 10K0 5% T&R	R109A	4980	1/4W 470R 5%MINI T&R RES									
R68A	2019	1/8W 100R0 1%FLAME PROOF T&R RES	R109B	4980	1/4W 470R 5%MINI T&R RES									
R68B	2019	1/8W 100R0 1%FLAME PROOF T&R RES	R110A	4979	1/4W 15K 5%MINI T&R RES									
R69A	2019	1/8W 100R0 1%FLAME PROOF T&R RES	R110B	4979	1/4W 15K 5%MINI T&R RES									
R69B	2019	1/8W 100R0 1%FLAME PROOF T&R RES	R111	4982	1/4W 4K7 5%MINI T&R RES									
R70A	5031	1.0W 10K0 5% T&R	R111A	4751	1/4W 22M 5% T&R RES									
R70B	5031	1.0W 10K0 5% T&R	R111B	4751	1/4W 22M 5% T&R RES									
R71A	5031	1.0W 10K0 5% T&R	R114	2006	1.0W 1R 5%FLAME PROOF T&R RES									
R71B	5031	1.0W 10K0 5% T&R	R115	2006	1.0W 1R 5%FLAME PROOF T&R RES									
R72A	5031	1.0W 10K0 5% T&R	R118A	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R72B	5031	1.0W 10K0 5% T&R	R118B	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R73A	5031	1.0W 10K0 5% T&R	R119A	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R73B	5031	1.0W 10K0 5% T&R	R119B	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R74A	5031	1.0W 10K0 5% T&R	R120A	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R74B	5031	1.0W 10K0 5% T&R	R120B	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R75A	5031	1.0W 10K0 5% T&R	R121A	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R75B	5031	1.0W 10K0 5% T&R	R121B	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R76A	2008	1.0W 10R 5%FLAME PROOF T&R RES	R122A	6127	1/4W 470K 5%MINI T&R RES									
R76B	2008	1.0W 10R 5%FLAME PROOF T&R RES	R122B	6127	1/4W 470K 5%MINI T&R RES									
R77A	2008	1.0W 10R 5%FLAME PROOF T&R RES	R123A	4979	1/4W 15K 5%MINI T&R RES									
R77B	2008	1.0W 10R 5%FLAME PROOF T&R RES	R123B	4979	1/4W 15K 5%MINI T&R RES									
R78A	4748	2.0W 3R9 5% T&R RES	R124	6120	1/4W 100K 5%MINI T&R RES									
R78B	4748	2.0W 3R9 5% T&R RES	R125A	6119	1/4W 47K 5%MINI T&R RES									
R79A	6126	1/4W 220K 5%MINI T&R RES	R125B	6119	1/4W 47K 5%MINI T&R RES									
R79B	6126	1/4W 220K 5%MINI T&R RES	R126A	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R80A	4991	1/4W 133K 1%MINI T&R RES	R126B	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R80B	4991	1/4W 133K 1%MINI T&R RES	R127A	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R81A	4991	1/4W 133K 1%MINI T&R RES	R127B	2019	1/8W 100R0 1%FLAME PROOF T&R RES									
R81B	4991	1/4W 133K 1%MINI T&R RES	R278	6118	1/4W 22K 5%MINI T&R RES									
R82A	6141	1/4W 5K6 5%MINI T&R RES	R279	6118	1/4W 22K 5%MINI T&R RES									
R82B	6141	1/4W 5K6 5%MINI T&R RES	R280	6118	1/4W 22K 5%MINI T&R RES									
R83A	6141	1/4W 5K6 5%MINI T&R RES	R281	4605	1/8W 10R 5% T&R RES									
R83B	6141	1/4W 5K6 5%MINI T&R RES	R282	4630	1/2W 15K 5% T&R RES									
R84A	6116	1/4W 10K0 1%MINI MF T&R RES	R283	4630	1/2W 15K 5% T&R RES									
R84B	6116	1/4W 10K0 1%MINI MF T&R RES	R284	4630	1/2W 15K 5% T&R RES									

M1194 PG1 Parts Reference List 6/29/2018

REF	YS #	Description
C1	6451	4N7 250V 20%CAP BLK 'Y' 10MM AC
C1A	5416	470P 50V 10%CAP T&R BEAD NPO
C1B	5416	470P 50V 10%CAP T&R BEAD NPO
C2	6435	22N 275V 20%CAP BLK 'X2' 15MM AC
C2A	5416	470P 50V 10%CAP T&R BEAD NPO
C2B	5416	470P 50V 10%CAP T&R BEAD NPO
C3	5266	680N 250V 20%CAP BLK 'X2' 27MM AC
C3A	5257	2U2 63V 20%CAP T&R RAD .2EL
C3B	5257	2U2 63V 20%CAP T&R RAD .2EL
C4A	5412	220P 100V 10%CAP T&R BEAD NPO
C4B	5412	220P 100V 10%CAP T&R BEAD NPO
C5A	5257	2U2 63V 20%CAP T&R RAD .2EL
C5B	5257	2U2 63V 20%CAP T&R RAD .2EL
C6A	5199	100P 100V 2%CAP T&R RAD CER.2NPO
C6B	5199	100P 100V 2%CAP T&R RAD CER.2NPO
C7A	5199	100P 100V 2%CAP T&R RAD CER.2NPO
C7B	5199	100P 100V 2%CAP T&R RAD CER.2NPO
C8A	5257	2U2 63V 20%CAP T&R RAD .2EL
C8B	5257	2U2 63V 20%CAP T&R RAD .2EL
C9A	5416	470P 50V 10%CAP T&R BEAD NPO
C9B	5416	470P 50V 10%CAP T&R BEAD NPO
C10A	5212	100N 63V 5%CAP T&R RAD .2FLM
C10B	5212	100N 63V 5%CAP T&R RAD .2FLM
C11A	5879	100U 16V 20%CAP T&R 8X7MM .2EL
C11B	5879	100U 16V 20%CAP T&R 8X7MM .2EL
C12A	5879	100U 16V 20%CAP T&R 8X7MM .2EL
C12B	5879	100U 16V 20%CAP T&R 8X7MM .2EL
C16A	5210	22N 100V 10%CAP T&R RAD .2FLM
C16B	5210	22N 100V 10%CAP T&R RAD .2FLM
C17A	5210	22N 100V 10%CAP T&R RAD .2FLM
C17B	5210	22N 100V 10%CAP T&R RAD .2FLM
C18A	5961	33U 16V 20%CAP T&R RAD .2IN NP
C18B	5961	33U 16V 20%CAP T&R RAD .2IN NP
C19A	5282	10U 16V 20%CAP T&R 5X7MM .2NP
C19B	5282	10U 16V 20%CAP T&R 5X7MM .2NP
C24A	5840	22N 400V 10%CAP BLK RAD POLY FLM
C24B	5840	22N 400V 10%CAP BLK RAD POLY FLM
C25A	5212	100N 63V 5%CAP T&R RAD .2FLM
C25B	5212	100N 63V 5%CAP T&R RAD .2FLM
C27A	5257	2U2 63V 20%CAP T&R RAD .2EL
C27B	5257	2U2 63V 20%CAP T&R RAD .2EL
C28A	5257	2U2 63V 20%CAP T&R RAD .2EL
C28B	5257	2U2 63V 20%CAP T&R RAD .2EL
C29A	5945	10U 63V 20%CAP T&R RAD .2EL
C29B	5945	10U 63V 20%CAP T&R RAD .2EL
C30A	5210	22N 100V 10%CAP T&R RAD .2FLM
C30B	5210	22N 100V 10%CAP T&R RAD .2FLM
C31A	5233	330N 63V 5%CAP T&R RAD .2FLM
C31B	5233	330N 63V 5%CAP T&R RAD .2FLM
C32	5898	8200U 50V 20%CAP 25X50MM ELS
C33	5898	8200U 50V 20%CAP 25X50MM ELS
C36	5898	8200U 50V 20%CAP 25X50MM ELS
C37	5898	8200U 50V 20%CAP 25X50MM ELS
C38A	5233	330N 63V 5%CAP T&R RAD .2FLM
C38B	5233	330N 63V 5%CAP T&R RAD .2FLM
C39A	5233	330N 63V 5%CAP T&R RAD .2FLM
C39B	5233	330N 63V 5%CAP T&R RAD .2FLM
C40	5879	100U 16V 20%CAP T&R 8X7MM .2EL
C41	5879	100U 16V 20%CAP T&R 8X7MM .2EL
C42	5879	100U 16V 20%CAP T&R 8X7MM .2EL
C43A	5879	100U 16V 20%CAP T&R 8X7MM .2EL
C43B	5879	100U 16V 20%CAP T&R 8X7MM .2EL
C44A	5879	100U 16V 20%CAP T&R 8X7MM .2EL
C44B	5879	100U 16V 20%CAP T&R 8X7MM .2EL
C45A	5258	4U7 63V 20%CAP T&R 5X7MM .2EL
C45B	5258	4U7 63V 20%CAP T&R 5X7MM .2EL
C47	5618	470U 25V 20%CAP BLK 10X15MM EL
C48	5314	100N 50V 10%CAP T&R BEAD X7R
C50	5896	4700U 80V 20%CAP BLK 25X50MM ELS
C51	5896	4700U 80V 20%CAP BLK 25X50MM ELS
C53	5314	100N 50V 10%CAP T&R BEAD X7R
C54	5314	100N 50V 10%CAP T&R BEAD X7R
C55	5314	100N 50V 10%CAP T&R BEAD X7R
C56	5896	4700U 80V 20%CAP BLK 25X50MM ELS
C57	5896	4700U 80V 20%CAP BLK 25X50MM ELS
C57A	5212	100N 63V 5%CAP T&R RAD .2FLM
C57B	5212	100N 63V 5%CAP T&R RAD .2FLM
C58	5212	100N 63V 5%CAP T&R RAD .2FLM
C59A	5212	100N 63V 5%CAP T&R RAD .2FLM
C59B	5212	100N 63V 5%CAP T&R RAD .2FLM
C60	5212	100N 63V 5%CAP T&R RAD .2FLM
C66A	5212	100N 63V 5%CAP T&R RAD .2FLM
C66B	5212	100N 63V 5%CAP T&R RAD .2FLM
C67A	5273	1N5 200V 5%CAP T&R RAD CER.2NPO
C67B	5273	1N5 200V 5%CAP T&R RAD CER.2NPO
C68A	5199	100P 100V 2%CAP T&R RAD CER.2NPO
C68B	5199	100P 100V 2%CAP T&R RAD CER.2NPO
C69A	5199	100P 100V 2%CAP T&R RAD CER.2NPO
C69B	5199	100P 100V 2%CAP T&R RAD CER.2NPO
C70A	5257	2U2 63V 20%CAP T&R RAD .2EL
C70B	5257	2U2 63V 20%CAP T&R RAD .2EL
C133	5945	10U 63V 20%CAP T&R RAD .2EL
C134	5260	22U 50V 20%CAP T&R RAD .2EL
D1	6436	1N753ARL 6V2 0W5 ZENER 5% T&R
D1A	6825	1N4148 75V 0A45 DIODE T&R
D1B	6825	1N4148 75V 0A45 DIODE T&R
D2	5124	1N5338B 5V1 5W0 ZENER 5% T&R
D2A	6825	1N4148 75V 0A45 DIODE T&R
D2B	6825	1N4148 75V 0A45 DIODE T&R
D3	5124	1N5338B 5V1 5W0 ZENER 5% T&R
D3A	6825	1N4148 75V 0A45 DIODE T&R
D3B	6825	1N4148 75V 0A45 DIODE T&R
D4	5124	1N5338B 5V1 5W0 ZENER 5% T&R
D5	6438	1N4007 1000V 1A0 DIODE T&R
D5A	6439	1N5225B 3V0 0W5 ZENER 5% T&R
D5B	6439	1N5225B 3V0 0W5 ZENER 5% T&R
D6	6438	1N4007 1000V 1A0 DIODE T&R
D6A	6439	1N5225B 3V0 0W5 ZENER 5% T&R
D6B	6439	1N5225B 3V0 0W5 ZENER 5% T&R
D8A	6437	1N5237B 8V2 0W5 ZENER 5% T&R
D8B	6437	1N5237B 8V2 0W5 ZENER 5% T&R
D9A	6461	1N5240BRL 10V0 0W5 ZENER 5% T&R
D9B	6461	1N5240BRL 10V0 0W5 ZENER 5% T&R
D10A	6450	1N5242B 12V0 0W5 ZENER 5% T&R
D10B	6450	1N5242B 12V0 0W5 ZENER 5% T&R
D11A	6825	1N4148 75V 0A45 DIODE T&R
D11B	6825	1N4148 75V 0A45 DIODE T&R
D14A	6425	BAV21 200V 0A25 DIODE T&R
D14B	6425	BAV21 200V 0A25 DIODE T&R
D15A	6425	BAV21 200V 0A25 DIODE T&R
D15B	6425	BAV21 200V 0A25 DIODE T&R
D18A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D18B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D21A	6934	MR854 400V 3A0 DIODE FASREC
D21B	6934	MR854 400V 3A0 DIODE FASREC
D22A	6934	MR854 400V 3A0 DIODE FASREC
D22B	6934	MR854 400V 3A0 DIODE FASREC
D24A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D24B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D26A	6825	1N4148 75V 0A45 DIODE T&R
D26B	6825	1N4148 75V 0A45 DIODE T&R
D27A	6825	1N4148 75V 0A45 DIODE T&R
D27B	6825	1N4148 75V 0A45 DIODE T&R
D30A	6934	MR854 400V 3A0 DIODE FASREC
D30B	6934	MR854 400V 3A0 DIODE FASREC
D31A	6934	MR854 400V 3A0 DIODE FASREC
D31B	6934	MR854 400V 3A0 DIODE FASREC
D32A	6825	1N4148 75V 0A45 DIODE T&R
D32B	6825	1N4148 75V 0A45 DIODE T&R
D33A	6825	1N4148 75V 0A45 DIODE T&R
D33B	6825	1N4148 75V 0A45 DIODE T&R
D34A	6825	1N4148 75V 0A45 DIODE T&R
D34B	6825	1N4148 75V 0A45 DIODE T&R
D35A	6825	1N4148 75V 0A45 DIODE T&R
D35B	6825	1N4148 75V 0A45 DIODE T&R
D36A	6825	1N4148 75V 0A45 DIODE T&R
D36B	6825	1N4148 75V 0A45 DIODE T&R
D37A	6825	1N4148 75V 0A45 DIODE T&R
D37B	6825	1N4148 75V 0A45 DIODE T&R
D38A	6825	1N4148 75V 0A45 DIODE T&R
D38B	6825	1N4148 75V 0A45 DIODE T&R
D40A	6825	1N4148 75V 0A45 DIODE T&R
D40B	6825	1N4148 75V 0A45 DIODE T&R
D42A	6934	MR854 400V 3A0 DIODE FASREC
D42B	6934	MR854 400V 3A0 DIODE FASREC
D43A	6934	MR854 400V 3A0 DIODE FASREC
D43B	6934	MR854 400V 3A0 DIODE FASREC
D45A	6825	1N4148 75V 0A45 DIODE T&R
D45B	6825	1N4148 75V 0A45 DIODE T&R
D46A	6825	1N4148 75V 0A45 DIODE T&R
D46B	6825	1N4148 75V 0A45 DIODE T&R
D47A	6825	1N4148 75V 0A45 DIODE T&R
D47B	6825	1N4148 75V 0A45 DIODE T&R
D48A	6461	1N5240BRL 10V0 0W5 ZENER 5% T&R
D48B	6461	1N5240BRL 10V0 0W5 ZENER 5% T&R
D49A	6450	1N5242B 12V0 0W5 ZENER 5% T&R
D49B	6450	1N5242B 12V0 0W5 ZENER 5% T&R
D51A	6425	BAV21 200V 0A25 DIODE T&R
D51B	6425	BAV21 200V 0A25 DIODE T&R
D52A	6425	BAV21 200V 0A25 DIODE T&R
D52B	6425	BAV21 200V 0A25 DIODE T&R
D53A	6425	BAV21 200V 0A25 DIODE T&R
D53B	6425	BAV21 200V 0A25 DIODE T&R
D54A	6425	BAV21 200V 0A25 DIODE T&R
D54B	6425	BAV21 200V 0A25 DIODE T&R
D56	6825	1N4148 75V 0A45 DIODE T&R
D56A	6484	1N4740A 10V0 1W0 ZENER 5% T&R
D56B	6484	1N4740A 10V0 1W0 ZENER 5% T&R
D57	6825	1N4148 75V 0A45 DIODE T&R
D58	6825	1N4148 75V 0A45 DIODE T&R
D60	6419	BRIDGE 35A 400V WIRE LEAD GI3504
D61	6419	BRIDGE 35A 400V WIRE LEAD GI3504
D62A	6825	1N4148 75V 0A45 DIODE T&R
D62B	6825	1N4148 75V 0A45 DIODE T&R
D64A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D64B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D65	6475	1N5262B 51V0 0W5 ZENER 5% T&R
D66A	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D66B	6824	1N5246B 16V0 0W5 ZENER 5% T&R
D68A	6825	1N4148 75V 0A45 DIODE T&R
D68B	6825	1N4148 75V 0A45 DIODE T&R
D69A	6825	1N4148 75V 0A45 DIODE T&R
D69B	6825	1N4148 75V 0A45 DIODE T&R
D70A	6825	1N4148 75V 0A45 DIODE T&R
D70B	6825	1N4148 75V 0A45 DIODE T&R
D71	6465	1N5250B 20V0 0W5 ZENER 5% T&R
D72	6438	1N4007 1000V 1A0 DIODE T&R
D73A	6425	BAV21 200V 0A25 DIODE T&R
D73B	6425	BAV21 200V 0A25 DIODE T&R
D74A	6425	BAV21 200V 0A25 DIODE T&R
D74B	6425	BAV21 200V 0A25 DIODE T&R
D75A	6425	BAV21 200V 0A25 DIODE T&R
D75B	6425	BAV21 200V 0A25 DIODE T&R
D76A	6425	BAV21 200V 0A25 DIODE T&R
D76B	6425	BAV21 200V 0A25 DIODE T&R
EC7	4022	ELASTOMER PAD - 4-TO220 1X1.850
EC8	4022	ELASTOMER PAD - 4-TO220 1X1.850
EC9	4022	ELASTOMER PAD - 4-TO220 1X1.850
EC10	4022	ELASTOMER PAD - 4-TO220 1X1.850
EC11	4022	ELASTOMER PAD - 4-TO220 1X1.850
EC12	4022	ELASTOMER PAD - 4-TO220 1X1.850
EC13	4022	ELASTOMER PAD - 4-TO220 1X1.850
H1A	3894	HEATSINK TO-220 W/TAB BLACK ANODIZE
H1B	3894	HEATSINK TO-220 W/TAB BLACK ANODIZE
H2A	3894	HEATSINK TO-220 W/TAB BLACK ANODIZE
H2B	3894	HEATSINK TO-220 W/TAB BLACK ANODIZE
H3	3894	HEATSINK TO-220 W/TAB BLACK ANODIZE
J1A	3924	1/4" JCK PCB MT VERT 2XTIP HICURNT
J1B	3924	1/4" JCK PCB MT VERT 2XTIP HICURNT
J2A	3924	1/4" JCK PCB MT VERT 2XTIP HICURNT
J2B	3924	1/4" JCK PCB MT VERT 2XTIP HICURNT
J3A	3628	SPKON 4C PCB MT VERT 250TAB GRY #4
J3B	3628	SPKON 4C PCB MT VERT 250TAB GRY #4
K1A	3722	RELAY 1A 30AMP DC24 036MA PC-C
K1B	3722	RELAY 1A 30AMP DC24 036MA PC-C
L1A	3820	4UH COIL 14AWG ZOBEL HORIZONTAL
L1B	3820	4UH COIL 14AWG ZOBEL HORIZONTAL
P1A	4520	10K TRIM POT
P1B	4520	10K TRIM POT
Q1A	5101	BC550C TO92 NPN TRAN T&R TB
Q1B	5101	BC550C TO92 NPN TRAN T&R TB
Q2A	5101	BC550C TO92 NPN TRAN T&R TB
Q2B	5101	BC550C TO92 NPN TRAN T&R TB
Q3A	5101	BC550C TO92 NPN TRAN T&R TB
Q3B	5101	BC550C TO92 NPN TRAN T&R TB
Q4A	5102	BC560C TO92 PNP TRAN T&R TB
Q4B	5102	BC560C TO92 PNP TRAN T&R TB
Q5A	5107	2N5551 TO92 NPN TRAN T&R TA
Q5B	5107	2N5551 TO92 NPN TRAN T&R TA
Q6A	5108	2N5401 TO92 PNP TRAN T&R TA
Q6B	5108	2N5401 TO92 PNP TRAN T&R TA
Q7A	5106	MPSA63 TO92 PNP DARL BLK TA
Q7B	5106	MPSA63 TO92 PNP DARL BLK TA
Q8A	5107	2N5551 TO92 NPN TRAN T&R TA
Q8B	5107	2N5551 TO92 NPN TRAN T&R TA
Q9A	5101	BC550C TO92 NPN TRAN T&R TB
Q9B	5101	BC550C TO92 NPN TRAN T&R TB
Q10A	5103	MPSA06 TO92 NPN TRAN T&R TA
Q10B	5103	MPSA06 TO92 NPN TRAN T&R TA
Q11A	5104	MPSA56 TO92 PNP TRAN T&R TA
Q11B	5104	MPSA56 TO92 PNP TRAN T&R TA
Q12A	6805	2SD2560 TO3P NPN TRAN DARL
Q12B	6805	2SD2560 TO3P NPN TRAN DARL
Q13A	6812	2SB1647 TO3P PNP TRAN DARL
Q13B	6812	2SB1647 TO3P PNP TRAN DARL
Q14A	6966	IRL2910 NCH MFET 100V TN
Q14B	6966	IRL2910 NCH MFET 100V TN
Q18A	6953	IRF4905 TO220 PCH MFET
Q18B	6953	IRF4905 TO220 PCH MFET
Q20A	6874	MJE350 TO126 PNP TRAN TG
Q20B	6874	MJE350 TO126 PNP TRAN TG
Q21A	6873	MJE340 TO126 NPN TRAN TG
Q21B	6873	MJE340 TO126 NPN TRAN TG
Q22A	5102	BC560C TO92 PNP TRAN T&R TB
Q22B	5102	BC560C TO92 PNP TRAN T&R TB
Q23A	5108	2N5401 TO92 PNP TRAN T&R TA
Q23B	5108	2N5401 TO92 PNP TRAN T&R TA
Q25A	6966	IRL2910 NCH MFET 100V TN
Q25B	6966	IRL2910 NCH MFET 100V TN
Q26A	6805	2SD2560 TO3P NPN TRAN DARL
Q26B	6805	2SD2560 TO3P NPN TRAN DARL
Q27A	6812	2SB1647 TO3P PNP TRAN DARL
Q27B	6812	2SB1647 TO3P PNP TRAN DARL
Q28A	6953	IRF4905 TO220 PCH MFET
Q28B	6953	IRF4905 TO220 PCH MFET
Q30A	5105	MPSA13 TO92 NPN DARL T&R TA
Q30B	5105	MPSA13 TO92 NPN DARL T&R TA
Q31A	5101	BC550C TO92 NPN TRAN T&R TB
Q31B	5101	BC550C TO92 NPN TRAN T&R TB
Q32A	5101	BC550C TO92 NPN TRAN T&R TB
Q32B	5101	BC550C TO92 NPN TRAN T&R TB
Q33A	5102	BC560C TO92 PNP TRAN T&R TB
Q33B	5102	BC560C TO92 PNP TRAN T&R TB
Q35	6916	TIP107 TO220 PNP TRAN DARL TE
Q36A	6619	10K 5% THERMISTOR VISH NTC
Q36B	6619	10K 5% THERMISTOR VISH NTC
Q37	6774	BD139 TO126 NPN TRAN TG
Q38	5103	MPSA06 TO92 NPN TRAN T&R TA
Q39	5103	MPSA06 TO92 NPN TRAN T&R TA
R1	6129	W250 27K 5%MINI T&R RES
R1A	6116	W250 10K0 1%MINI MF T&R RES
R1B	6116	W250 10K0 1%MINI MF T&R RES
R2	4982	W250 4K7 5%MINI T&R RES
R2A	6116	W250 10K0 1%MINI MF T&R RES
R2B	6116	W250 10K0 1%MINI MF T&R RES
R3A	6116	W250 10K0 1%MINI MF T&R RES
R3B	6116	W250 10K0 1%MINI MF T&R RES
R4A	6116	W250 10K0 1%MINI MF T&R RES
R4B	6116	W250 10K0 1%MINI MF T&R RES
R5A	4954	W250 18K 5% .2INU T&R RES
R5B	4954	W250 18K 5% .2INU T&R RES
R6A	6119	W250 47K 5%MINI T&R RES
R6B	6119	W250 47K 5%MINI T&R RES
R7A	4982	W250 4K7 5%MINI T&R RES
R7B	4982	W250 4K7 5%MINI T&R RES
R8A	6125	W250 18K 5%MINI T&R RES
R8B	6125	W250 18K 5%MINI T&R RES
R9A	2019	W125 100R0 1%FLAME PROOF T&R RES
R9B	2019	W125 100R0 1%FLAME PROOF T&R RES
R10A	2019	W125 100R0 1%FLAME PROOF T&R RES
R10B	2019	W125 100R0 1%FLAME PROOF T&R RES
R11A	4751	1/4W 22M 5% T&R RES
R11B	4751	1/4W 22M 5% T&R RES
R12A	4979	W250 15K 5%MINI T&R RES
R12B	4979	W250 15K 5%MINI T&R RES
R13A	6128	W250 4K99 1%MINI MF T&R RES
R13B	6128	W250 4K99 1%MINI MF T&R RES
R14A	4981	W250 1K 5%MINI T&R RES
R14B	4981	W250 1K 5%MINI T&R RES
R15A	4979	W250 15K 5%MINI T&R RES
R15B	4979	W250 15K 5%MINI T&R RES
R16A	4981	W250 1K 5%MINI T&R RES
R16B	4981	W250 1K 5%MINI T&R RES
R17A	6116	W250 10K0 1%MINI MF T&R RES
R17B	6116	W250 10K0 1%MINI MF T&R RES
R18A	6119	W250 47K 5%MINI T&R RES
R18B	6119	W250 47K 5%MINI T&R RES
R19A	6119	W250 47K 5%MINI T&R RES
R19B	6119	W250 47K 5%MINI T&R RES
R20A	6113	W250 2K 5%MINI T&R RES
R20B	6113	W250 2K 5%MINI T&R RES
R21A	6113	W250 2K 5%MINI T&R RES
R21B	6113	W250 2K 5%MINI T&R RES
R22A	6128	W250 4K99 1%MINI MF T&R RES
R22B	6128	W250 4K99 1%MINI MF T&R RES
R23A	6128	W250 4K99 1%MINI MF T&R RES
R23B	6128	W250 4K99 1%MINI MF T&R RES
R24A	6128	W250 4K99 1%MINI MF T&R RES
R24B	6128	W250 4K99 1%MINI MF T&R RES
R25A	6110	W250 1K0 1%MINI MF T&R RES
R25B	6110	W250 1K0 1%MINI MF T&R RES
R26A	6118	W250 22K 5%MINI T&R RES
R26B	6118	W250 22K 5%MINI T&R RES
R27A	4585	W250 1K2 5%MINI T&R RES
R27B	4585	W250 1K2 5%MINI T&R RES
R28A	4585	W250 1K2 5%MINI T&R RES
R28B	4585	W250 1K2 5%MINI T&R RES
R29A	6104	W250 2K2 5%MINI T&R RES
R29B	6104	W250 2K2 5%MINI T&R RES
R30A	6104	W250 2K2 5%MINI T&R RES
R30B	6104	W250 2K2 5%MINI T&R RES
R31A	6118	W250 22K 5%MINI T&R RES
R31B	6118	W250 22K 5%MINI T&R RES
R32A	6118	W250 22K 5%MINI T&R RES
R32B	6118	W250 22K 5%MINI T&R RES
R33A	6124	W250 3K 5%MINI T&R RES
R33B	6124	W250 3K 5%MINI T&R RES
R34A	6124	W250 3K 5%MINI T&R RES
R34B	6124	W250 3K 5%MINI T&R RES
R35A	4982	W250 4K7 5%MINI T&R RES
R35B	4982	W250 4K7 5%MINI T&R RES
R36A	6128	W250 4K99 1%MINI MF T&R RES
R36B	6128	W250 4K99 1%MINI MF T&R RES
R37A	6126	W250 220K 5%MINI T&R RES
R37B	6126	W250 220K 5%MINI T&R RES
R38A	6126	W250 220K 5%MINI T&R RES
R38B	6126	W250 220K 5%MINI T&R RES
R39A	6118	W250 22K 5%MINI T&R RES
R39B	6118	W250 22K 5%MINI T&R RES
R40A	4982	W250 4K7 5%MINI T&R RES
R40B	4982	W250 4K7 5%MINI T&R RES
R41A	4911	W250 2R2 5% T&R RES
R41B	4911	W250 2R2 5% T&R RES
R42A	4911	W250 2R2 5% T&R RES
R42B	4911	W250 2R2 5% T&R RES
R43A	2033	W167 1K 2%FLAME PROOF T&R RES
R43B	2033	W167 1K 2%FLAME PROOF T&R RES
R44A	2033	W167 1K 2%FLAME PROOF T&R RES
R44B	2033	W167 1K 2%FLAME PROOF T&R RES
R45A	4833	W250 27K 5% T&R RES
R45B	4833	W250 27K 5% T&R RES
R46A	4833	W250 27K 5% T&R RES
R46B	4833	W250 27K 5% T&R RES
R51A	2023	W167 220R0 1%FLAME PROOF T&R RES
R51B	2023	W167 220R0 1%FLAME PROOF T&R RES
R52A	2023	W167 220R0 1%FLAME PROOF T&R RES
R52B	2023	W167 220R0 1%FLAME PROOF T&R RES
R53A	4749	5W0 0R15 5% BLK RES
R53B	4749	5W0 0R15 5% BLK RES
R54A	4749	5W0 0R15 5% BLK RES
R54B	4749	5W0 0R15 5% BLK RES
R58A	2023	W167 220R0 1%FLAME PROOF T&R RES
R58B	2023	W167 220R0 1%FLAME PROOF T&R RES
R59A	2023	W167 220R0 1%FLAME PROOF T&R RES
R59B	2023	W167 220R0 1%FLAME PROOF T&R RES
R60A	2016	W167 39R 2%FLAME PROOF T&R RES
R60B	2016	W167 39R 2%FLAME PROOF T&R RES
R61A	2016	W167 39R 2%FLAME PROOF T&R RES
R61B	2016	W167 39R 2%FLAME PROOF T&R RES
R62A	2030	W167 681R 1%FLAME PROOF T&R RES

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REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R62B	2030	W167 681R 1%FLAME PROOF T&R RES	R115	2006	1W00 1R 5%FLAME PROOF T&R RES									
R63A	2030	W167 681R 1%FLAME PROOF T&R RES	R118A	2019	W125 100R0 1%FLAME PROOF T&R RES									
R63B	2030	W167 681R 1%FLAME PROOF T&R RES	R118B	2019	W125 100R0 1%FLAME PROOF T&R RES									
R64A	4777	W250 21K5 1% T&R RES	R121A	2019	W125 100R0 1%FLAME PROOF T&R RES									
R64B	4777	W250 21K5 1% T&R RES	R121B	2019	W125 100R0 1%FLAME PROOF T&R RES									
R72A	4681	1W00 4K7 5% T&R RES	R122A	6127	W250 470K 5%MINI T&R RES									
R72B	4681	1W00 4K7 5% T&R RES	R122B	6127	W250 470K 5%MINI T&R RES									
R73A	4681	1W00 4K7 5% T&R RES	R123A	4979	W250 15K 5%MINI T&R RES									
R73B	4681	1W00 4K7 5% T&R RES	R123B	4979	W250 15K 5%MINI T&R RES									
R74A	4681	1W00 4K7 5% T&R RES	R124	6120	W250 100K 5%MINI T&R RES									
R74B	4681	1W00 4K7 5% T&R RES	R125A	6119	W250 47K 5%MINI T&R RES									
R75A	4681	1W00 4K7 5% T&R RES	R125B	6119	W250 47K 5%MINI T&R RES									
R75B	4681	1W00 4K7 5% T&R RES	R126A	2019	W125 100R0 1%FLAME PROOF T&R RES									
R76A	2008	1W00 10R 5%FLAME PROOF T&R RES	R126B	2019	W125 100R0 1%FLAME PROOF T&R RES									
R76B	2008	1W00 10R 5%FLAME PROOF T&R RES	R127A	2019	W125 100R0 1%FLAME PROOF T&R RES									
R77A	2008	1W00 10R 5%FLAME PROOF T&R RES	R127B	2019	W125 100R0 1%FLAME PROOF T&R RES									
R77B	2008	1W00 10R 5%FLAME PROOF T&R RES	R278	6118	W250 22K 5%MINI T&R RES									
R78A	4748	2W00 3R9 5% T&R RES	R279	6118	W250 22K 5%MINI T&R RES									
R78B	4748	2W00 3R9 5% T&R RES	R280	6118	W250 22K 5%MINI T&R RES									
R79A	6126	W250 220K 5%MINI T&R RES	R281	4605	W125 10R 5% T&R RES									
R79B	6126	W250 220K 5%MINI T&R RES	R283	4630	W500 15K 5% T&R RES									
R80A	4586	W250 82K 5%MINI T&R RES	R284	4630	W500 15K 5% T&R RES									
R80B	4586	W250 82K 5%MINI T&R RES	R285	4630	W500 15K 5% T&R RES									
R81A	4586	W250 82K 5%MINI T&R RES	R287	4630	W500 15K 5% T&R RES									
R81B	4586	W250 82K 5%MINI T&R RES	S2	3522	DPDT MINI PC VERT SNP ALT									
R82A	6136	W250 3K3 5%MINI T&R RES	U1A	6882	TL072CP IC FET DUAL OP AMP									
R82B	6136	W250 3K3 5%MINI T&R RES	U1B	6882	TL072CP IC FET DUAL OP AMP									
R83A	6136	W250 3K3 5%MINI T&R RES	U2	6745	LM13600N IC XCONDUCTANCE AMP									
R83B	6136	W250 3K3 5%MINI T&R RES	U3A	6889	TL074CN IC QUAD O/A T.I ONLY									
R84A	6116	W250 10K0 1%MINI MF T&R RES	U3B	6889	TL074CN IC QUAD O/A T.I ONLY									
R84B	6116	W250 10K0 1%MINI MF T&R RES	U4	6882	TL072CP IC FET DUAL OP AMP									
R85A	6116	W250 10K0 1%MINI MF T&R RES	U5	6871	MC7915CT TO220 N 15V0 REG V2									
R85B	6116	W250 10K0 1%MINI MF T&R RES	U6	6872	MC7815CT TO220 P 15V0 REG V1									
R86A	6116	W250 10K0 1%MINI MF T&R RES	U7	6738	MC7805CT TO220 P 5V0 REG 36V									
R86B	6116	W250 10K0 1%MINI MF T&R RES	W1	2329	12 CIR XH-HEADER 0.098IN									
R87A	4988	W250 1K5 5%MINI T&R RES	W4	3392	250 MALE TAB .2IN T&R									
R87B	4988	W250 1K5 5%MINI T&R RES	W5	3392	250 MALE TAB .2IN T&R									
R88A	4850	W250 3K9 5% T&R RES	W6	3392	250 MALE TAB .2IN T&R									
R88B	4850	W250 3K9 5% T&R RES	W7	3392	250 MALE TAB .2IN T&R									
R90A	6122	W250 33K 5%MINI T&R RES	W8	3392	250 MALE TAB .2IN T&R									
R90B	6122	W250 33K 5%MINI T&R RES	W13A	3451	EYELET SMALL 0.089 OD PLATED									
R91A	6119	W250 47K 5%MINI T&R RES	W13A_	3451	EYELET SMALL 0.089 OD PLATED									
R91B	6119	W250 47K 5%MINI T&R RES	W14B	3451	EYELET SMALL 0.089 OD PLATED									
R92A	4943	W250 4K7 5% .2INU T&R RES	W14B_	3451	EYELET SMALL 0.089 OD PLATED									
R92B	4943	W250 4K7 5% .2INU T&R RES	W15A	3451	EYELET SMALL 0.089 OD PLATED									
R93A	4749	5W0 0R15 5% BLK RES	W15A_	3451	EYELET SMALL 0.089 OD PLATED									
R93B	4749	5W0 0R15 5% BLK RES	W15B	3451	EYELET SMALL 0.089 OD PLATED									
R94A	4749	5W0 0R15 5% BLK RES	W15B_	3451	EYELET SMALL 0.089 OD PLATED									
R94B	4749	5W0 0R15 5% BLK RES	W17A	3451	EYELET SMALL 0.089 OD PLATED									
R99	4709	5W00 22R 5% BLK RES	W17A_	3451	EYELET SMALL 0.089 OD PLATED									
R100A	4809	W250 10M 5% T&R RES	W17B	3451	EYELET SMALL 0.089 OD PLATED									
R100B	4809	W250 10M 5% T&R RES	W17B_	3451	EYELET SMALL 0.089 OD PLATED									
R101A	6126	W250 220K 5%MINI T&R RES	W20	4056	2 CIR XH-HEADER 0.098IN									
R101B	6126	W250 220K 5%MINI T&R RES	W22	4056	2 CIR XH-HEADER 0.098IN									
R102A	6119	W250 47K 5%MINI T&R RES	W22A	3451	EYELET SMALL 0.089 OD PLATED									
R102B	6119	W250 47K 5%MINI T&R RES	W22A_	3451	EYELET SMALL 0.089 OD PLATED									
R103A	6119	W250 47K 5%MINI T&R RES	W22B	3451	EYELET SMALL 0.089 OD PLATED									
R103B	6119	W250 47K 5%MINI T&R RES	W22B_	3451	EYELET SMALL 0.089 OD PLATED									
R104A	6118	W250 22K 5%MINI T&R RES	W24A	3451	EYELET SMALL 0.089 OD PLATED									
R104B	6118	W250 22K 5%MINI T&R RES	W24A_	3451	EYELET SMALL 0.089 OD PLATED									
R105A	4982	W250 4K7 5%MINI T&R RES	W24B	3451	EYELET SMALL 0.089 OD PLATED									
R105B	4982	W250 4K7 5%MINI T&R RES	W24B_	3451	EYELET SMALL 0.089 OD PLATED									
R106A	4868	W250 36K 5% T&R RES	W28A	3451	EYELET SMALL 0.089 OD PLATED									
R106B	4868	W250 36K 5% T&R RES	W28A_	3451	EYELET SMALL 0.089 OD PLATED									
R107A	4982	W250 4K7 5%MINI T&R RES	W28B	3451	EYELET SMALL 0.089 OD PLATED									
R107B	4982	W250 4K7 5%MINI T&R RES	W28B_	3451	EYELET SMALL 0.089 OD PLATED									
R108A	4982	W250 4K7 5%MINI T&R RES	W31	3392	250 MALE TAB .2IN T&R									
R108B	4982	W250 4K7 5%MINI T&R RES	W32	3392	250 MALE TAB .2IN T&R									
R109A	4980	W250 470R 5%MINI T&R RES	W33	3392	250 MALE TAB .2IN T&R									
R109B	4980	W250 470R 5%MINI T&R RES	W34	3392	250 MALE TAB .2IN T&R									
R110A	4979	W250 15K 5%MINI T&R RES	W35	3392	250 MALE TAB .2IN T&R									
R110B	4979	W250 15K 5%MINI T&R RES	W36	3392	250 MALE TAB .2IN T&R									
R111	4982	W250 4K7 5%MINI T&R RES	XC1A	3977	QUAD XSISTOR SPRING, ZINC YELLOW									
R111A	4751	1/4W 22M 5% T&R RES	XC1B	3977	QUAD XSISTOR SPRING, ZINC YELLOW									
R111B	4751	1/4W 22M 5% T&R RES	XC2A	3719	DUAL XSISTOR SPRING, ZINC CLEAR									
R112A	4853	W250 39K 5% T&R RES	XC2B	3719	DUAL XSISTOR SPRING, ZINC CLEAR									
R112B	4853	W250 39K 5% T&R RES	XC102A	3719	DUAL XSISTOR SPRING, ZINC CLEAR									
R113A	4853	W250 39K 5% T&R RES	XC102B	3719	DUAL XSISTOR SPRING, ZINC CLEAR									
R113B	4853	W250 39K 5% T&R RES	XC105	3977	QUAD XSISTOR SPRING, ZINC YELLOW									
R114	2006	1W00 1R 5%FLAME PROOF T&R RES												

M2188-02 p1 Parts Reference List 2023-04-10

REF	YS #	Description
AI-ASS	M2188-59	M1610-2/M810-2 MIXER BOARD NEW EQ
C1		100N 50V 5%CAP 0805 SMT X7R
C2A		4U7 25V 20%CAP 4X5.5 SMT ELC
C2B		4U7 25V 20%CAP 4X5.5 SMT ELC
C2C		4U7 25V 20%CAP 4X5.5 SMT ELC
C2D		4U7 25V 20%CAP 4X5.5 SMT ELC
C2E		4U7 25V 20%CAP 4X5.5 SMT ELC
C2F		4U7 25V 20%CAP 4X5.5 SMT ELC
C3A		4U7 25V 20%CAP 4X5.5 SMT ELC
C3B		4U7 25V 20%CAP 4X5.5 SMT ELC
C3C		4U7 25V 20%CAP 4X5.5 SMT ELC
C3D		4U7 25V 20%CAP 4X5.5 SMT ELC
C3E		4U7 25V 20%CAP 4X5.5 SMT ELC
C3F		4U7 25V 20%CAP 4X5.5 SMT ELC
C4		1U 50V 20%CAP 3.3MM SMT ELE
C5A		1N 50V 5%CAP 0805 SMT NPO
C5B		1N 50V 5%CAP 0805 SMT NPO
C5C		1N 50V 5%CAP 0805 SMT NPO
C5D		1N 50V 5%CAP 0805 SMT NPO
C5E		1N 50V 5%CAP 0805 SMT NPO
C5F		1N 50V 5%CAP 0805 SMT NPO
C6A		1N 50V 5%CAP 0805 SMT NPO
C6B		1N 50V 5%CAP 0805 SMT NPO
C6C		1N 50V 5%CAP 0805 SMT NPO
C6D		1N 50V 5%CAP 0805 SMT NPO
C6E		1N 50V 5%CAP 0805 SMT NPO
C6F		1N 50V 5%CAP 0805 SMT NPO
C7A		47P 100V 5%CAP 0805 SMT NPO
C7B		47P 100V 5%CAP 0805 SMT NPO
C7C		47P 100V 5%CAP 0805 SMT NPO
C7D		47P 100V 5%CAP 0805 SMT NPO
C7E		47P 100V 5%CAP 0805 SMT NPO
C7F		47P 100V 5%CAP 0805 SMT NPO
C8A		47P 100V 5%CAP 0805 SMT NPO
C8B		47P 100V 5%CAP 0805 SMT NPO
C8C		47P 100V 5%CAP 0805 SMT NPO
C8D		47P 100V 5%CAP 0805 SMT NPO
C8E		47P 100V 5%CAP 0805 SMT NPO
C8F		47P 100V 5%CAP 0805 SMT NPO
C9A		220P 100V 10%CAP 0805 SMT X7R
C9B		220P 100V 10%CAP 0805 SMT X7R
C9C		220P 100V 10%CAP 0805 SMT X7R
C9D		220P 100V 10%CAP 0805 SMT X7R
C9E		220P 100V 10%CAP 0805 SMT X7R
C9F		220P 100V 10%CAP 0805 SMT X7R
C10A		220P 100V 10%CAP 0805 SMT X7R
C10B		220P 100V 10%CAP 0805 SMT X7R
C10C		220P 100V 10%CAP 0805 SMT X7R
C10D		220P 100V 10%CAP 0805 SMT X7R
C10E		220P 100V 10%CAP 0805 SMT X7R
C10F		220P 100V 10%CAP 0805 SMT X7R
C12A		4U7 25V 20%CAP 4X5.5 SMT ELC
C12B		4U7 25V 20%CAP 4X5.5 SMT ELC
C12C		4U7 25V 20%CAP 4X5.5 SMT ELC
C12D		4U7 25V 20%CAP 4X5.5 SMT ELC
C12E		4U7 25V 20%CAP 4X5.5 SMT ELC
C12F		4U7 25V 20%CAP 4X5.5 SMT ELC
C13A		10U 16V 20%CAP 5X5.4 SMT NP
C13B		10U 16V 20%CAP 5X5.4 SMT NP
C13C		10U 16V 20%CAP 5X5.4 SMT NP
C13D		10U 16V 20%CAP 5X5.4 SMT NP
C13E		10U 16V 20%CAP 5X5.4 SMT NP
C13F		10U 16V 20%CAP 5X5.4 SMT NP
C14		1N 50V 5%CAP 0805 SMT NPO
C15A		47P 100V 5%CAP 0805 SMT NPO
C15B		47P 100V 5%CAP 0805 SMT NPO
C15C		47P 100V 5%CAP 0805 SMT NPO
C15D		47P 100V 5%CAP 0805 SMT NPO
C15E		47P 100V 5%CAP 0805 SMT NPO
C15F		47P 100V 5%CAP 0805 SMT NPO
C16A		10U 16V 20%CAP 5X5.4 SMT NP
C16B		10U 16V 20%CAP 5X5.4 SMT NP
C16C		10U 16V 20%CAP 5X5.4 SMT NP
C16D		10U 16V 20%CAP 5X5.4 SMT NP
C16E		10U 16V 20%CAP 5X5.4 SMT NP
C16F		10U 16V 20%CAP 5X5.4 SMT NP
C17A		22N 50V 10%CAP 0805 SMT X7R
C17B		22N 50V 10%CAP 0805 SMT X7R
C17C		22N 50V 10%CAP 0805 SMT X7R
C17D		22N 50V 10%CAP 0805 SMT X7R
C17E		22N 50V 10%CAP 0805 SMT X7R
C17F		22N 50V 10%CAP 0805 SMT X7R
C18A		18N 25V 10%CAP 0805 SMT X7R
C18B		18N 25V 10%CAP 0805 SMT X7R
C18C		18N 25V 10%CAP 0805 SMT X7R
C18D		18N 25V 10%CAP 0805 SMT X7R
C18E		18N 25V 10%CAP 0805 SMT X7R
C18F		18N 25V 10%CAP 0805 SMT X7R
C19A		22N 50V 10%CAP 0805 SMT X7R
C19B		22N 50V 10%CAP 0805 SMT X7R
C19C		22N 50V 10%CAP 0805 SMT X7R
C19D		22N 50V 10%CAP 0805 SMT X7R
C19E		22N 50V 10%CAP 0805 SMT X7R
C19F		22N 50V 10%CAP 0805 SMT X7R
C20A		1N5 50V 5%CAP 0805 SMT NPO
C20B		1N5 50V 5%CAP 0805 SMT NPO
C20C		1N5 50V 5%CAP 0805 SMT NPO
C20D		1N5 50V 5%CAP 0805 SMT NPO
C20E		1N5 50V 5%CAP 0805 SMT NPO
C20F		1N5 50V 5%CAP 0805 SMT NPO
C21A		10U 16V 20%CAP 5X5.4 SMT NP
C21B		10U 16V 20%CAP 5X5.4 SMT NP
C21C		10U 16V 20%CAP 5X5.4 SMT NP
C21D		10U 16V 20%CAP 5X5.4 SMT NP
C21E		10U 16V 20%CAP 5X5.4 SMT NP
C21F		10U 16V 20%CAP 5X5.4 SMT NP
C22		100N 50V 5%CAP 0805 SMT X7R
C23G		10U 63V 20%CAP 6.3MM SMT ELE
C23H		10U 63V 20%CAP 6.3MM SMT ELE
C24		100N 50V 5%CAP 0805 SMT X7R
C25G		10U 63V 20%CAP 6.3MM SMT ELE
C25H		10U 63V 20%CAP 6.3MM SMT ELE
C26G		1N 50V 5%CAP 0805 SMT NPO
C26H		1N 50V 5%CAP 0805 SMT NPO
C27G		1N 50V 5%CAP 0805 SMT NPO
C27H		1N 50V 5%CAP 0805 SMT NPO
C28G		1N 50V 5%CAP 0805 SMT NPO
C28H		1N 50V 5%CAP 0805 SMT NPO
C29G		1N 50V 5%CAP 0805 SMT NPO
C29H		1N 50V 5%CAP 0805 SMT NPO
C30G		10U 16V 20%CAP 5X5.4 SMT NP
C30H		10U 16V 20%CAP 5X5.4 SMT NP
C31G		10U 16V 20%CAP 5X5.4 SMT NP
C31H		10U 16V 20%CAP 5X5.4 SMT NP
C32G		10U 16V 20%CAP 5X5.4 SMT NP
C32H		10U 16V 20%CAP 5X5.4 SMT NP
C33G		100U 25V 20%CAP 8X5.4 SMT ELE
C33H		100U 25V 20%CAP 8X5.4 SMT ELE
C34G		10U 16V 20%CAP 5X5.4 SMT NP
C34H		10U 16V 20%CAP 5X5.4 SMT NP
C35G		100U 25V 20%CAP 8X5.4 SMT ELE
C35H		100U 25V 20%CAP 8X5.4 SMT ELE
C36G		10U 16V 20%CAP 5X5.4 SMT NP
C36H		10U 16V 20%CAP 5X5.4 SMT NP
C37G		10U 16V 20%CAP 5X5.4 SMT NP
C37H		10U 16V 20%CAP 5X5.4 SMT NP
C38G		22N 50V 10%CAP 0805 SMT X7R
C38H		22N 50V 10%CAP 0805 SMT X7R
C39G		1N5 50V 5%CAP 0805 SMT NPO
C39H		1N5 50V 5%CAP 0805 SMT NPO
C40G		22N 50V 10%CAP 0805 SMT X7R
C40H		22N 50V 10%CAP 0805 SMT X7R
C41G		1N5 50V 5%CAP 0805 SMT NPO
C41H		1N5 50V 5%CAP 0805 SMT NPO
C42		10U 16V 20%CAP 5X5.4 SMT NP
C43		10U 16V 20%CAP 5X5.4 SMT NP
C44		10U 16V 20%CAP 5X5.4 SMT NP
C45		10U 16V 20%CAP 5X5.4 SMT NP
C46		10U 16V 20%CAP 5X5.4 SMT NP
C47		10U 16V 20%CAP 5X5.4 SMT NP
C48		47P 100V 5%CAP 0805 SMT NPO
C49		47P 100V 5%CAP 0805 SMT NPO
C50		47P 100V 5%CAP 0805 SMT NPO
C51		47P 100V 5%CAP 0805 SMT NPO
C52		47P 100V 5%CAP 0805 SMT NPO
C53		47P 100V 5%CAP 0805 SMT NPO
C54		10U 16V 20%CAP 5X5.4 SMT NP
C55		10U 16V 20%CAP 5X5.4 SMT NP
C56		47P 100V 5%CAP 0805 SMT NPO
C57		47P 100V 5%CAP 0805 SMT NPO
C58		47P 100V 5%CAP 0805 SMT NPO
C59		1U 50V 20%CAP 3.3MM SMT ELE
C61L		470N 50V 5%CAP 1206 SMT X7R
C61R		470N 50V 5%CAP 1206 SMT X7R
C62L		33N 50V 5%CAP 0805 SMT X7R
C62R		33N 50V 5%CAP 0805 SMT X7R
C63L		330N 50V 5%CAP 1206 SMT X7R
C63R		330N 50V 5%CAP 1206 SMT X7R
C64L		220N 50V 5%CAP 1206 SMT X7R
C64R		220N 50V 5%CAP 1206 SMT X7R
C65L		150N 50V 5%CAP 0805 SMT X7R
C65R		150N 50V 5%CAP 0805 SMT X7R
C66L		68N 50V 5%CAP 0805 SMT X7R
C66R		68N 50V 5%CAP 0805 SMT X7R
C67L		47N 25V 5%CAP 0805 SMT X7R
C67R		47N 25V 5%CAP 0805 SMT X7R
C68L		33N 50V 5%CAP 0805 SMT X7R
C68R		33N 50V 5%CAP 0805 SMT X7R
C69		47P 100V 5%CAP 0805 SMT NPO
C70L		22N 50V 5%CAP 0805 SMT X7R
C70R		22N 50V 5%CAP 0805 SMT X7R
C71L		15N 50V 5%CAP 0805 SMT C0G
C71R		15N 50V 5%CAP 0805 SMT C0G
C72L		10N 50V 5%CAP 0805 SMT X7R
C72R		10N 50V 5%CAP 0805 SMT X7R
C73L		4N7 50V 5%CAP 0805 SMT X7R
C73R		4N7 50V 5%CAP 0805 SMT X7R
C74L		47N 25V 5%CAP 0805 SMT X7R
C74R		47N 25V 5%CAP 0805 SMT X7R
C75L		3N3 25V 5%CAP 0805 SMT NPO
C75R		3N3 25V 5%CAP 0805 SMT NPO
C76L		47P 100V 5%CAP 0805 SMT NPO
C76R		47P 100V 5%CAP 0805 SMT NPO
C77L		33N 50V 5%CAP 0805 SMT X7R
C77R		33N 50V 5%CAP 0805 SMT X7R
C78L		2N2 50V 5%CAP 0805 SMT X7R
C78R		2N2 50V 5%CAP 0805 SMT X7R
C79L		33N 50V 5%CAP 0805 SMT X7R
C79R		33N 50V 5%CAP 0805 SMT X7R
C80		1U 50V 20%CAP 3.3MM SMT ELE
C81L		22N 50V 5%CAP 0805 SMT X7R
C81R		22N 50V 5%CAP 0805 SMT X7R
C82L		1N5 50V 5%CAP 0805 SMT NPO
C82R		1N5 50V 5%CAP 0805 SMT NPO
C83		2N7 100V 10%CAP 0805 SMT X7R
C84L		15N 50V 5%CAP 0805 SMT C0G
C84R		15N 50V 5%CAP 0805 SMT C0G
C85G		100N 50V 5%CAP 0805 SMT X7R
C85H		100N 50V 5%CAP 0805 SMT X7R
C86G		100N 50V 5%CAP 0805 SMT X7R
C86H		100N 50V 5%CAP 0805 SMT X7R
C87		2N7 100V 10%CAP 0805 SMT X7R
C88		1U 50V 20%CAP 3.3MM SMT ELE
C89		100N 50V 5%CAP 0805 SMT X7R
C90		15P 50V 5%CAP 0603 SMT NPO
C91		100N 50V 5%CAP 0805 SMT X7R
C92		100N 50V 5%CAP 0805 SMT X7R
C93		4U7 25V 20%CAP 4X5.5 SMT ELC
C94		4U7 25V 20%CAP 4X5.5 SMT ELC
C95		100N 50V 5%CAP 0805 SMT X7R
C96		100N 50V 5%CAP 0805 SMT X7R
C97G		100N 50V 5%CAP 0805 SMT X7R
C97H		100N 50V 5%CAP 0805 SMT X7R
C98G		100N 50V 5%CAP 0805 SMT X7R
C98H		100N 50V 5%CAP 0805 SMT X7R
C99		100N 50V 5%CAP 0805 SMT X7R
C100		100N 50V 5%CAP 0805 SMT X7R
C101		47P 100V 5%CAP 0805 SMT NPO
C102		10U 16V 20%CAP 5X5.4 SMT NP
C103		100N 50V 5%CAP 0805 SMT X7R
C104E		33N 50V 5%CAP 0805 SMT X7R
C104F		33N 50V 5%CAP 0805 SMT X7R
C105		100U 25V 20%CAP 8X5.4 SMT ELE
C106		47P 100V 5%CAP 0805 SMT NPO
C107		47P 100V 5%CAP 0805 SMT NPO
C108		100U 25V 20%CAP 8X5.4 SMT ELE
C108A		10U 16V 20%CAP 5X5.4 SMT NP
C108B		10U 16V 20%CAP 5X5.4 SMT NP
C108C		10U 16V 20%CAP 5X5.4 SMT NP
C108D		10U 16V 20%CAP 5X5.4 SMT NP
C108E		10U 16V 20%CAP 5X5.4 SMT NP
C108F		10U 16V 20%CAP 5X5.4 SMT NP
C109E		4N7 50V 10%CAP 0805 SMT X7R
C109F		4N7 50V 10%CAP 0805 SMT X7R
C110		100N 50V 5%CAP 0805 SMT X7R
C111		100N 50V 5%CAP 0805 SMT X7R
C112		100N 50V 5%CAP 0805 SMT X7R
C113		100N 50V 5%CAP 0805 SMT X7R
C115		100N 50V 5%CAP 0805 SMT X7R
C116		3N3 25V 5%CAP 0805 SMT NPO
C117		3N3 25V 5%CAP 0805 SMT NPO
C118		100N 50V 5%CAP 0805 SMT X7R
C119		100N 50V 5%CAP 0805 SMT X7R
C121		100N 50V 5%CAP 0805 SMT X7R
C128		100N 50V 5%CAP 0805 SMT X7R
C129		100N 50V 5%CAP 0805 SMT X7R
C130		3N3 25V 5%CAP 0805 SMT NPO
C131		3N3 25V 5%CAP 0805 SMT NPO
C150A		100N 50V 5%CAP 0805 SMT X7R
C150B		100N 50V 5%CAP 0805 SMT X7R
C150C		100N 50V 5%CAP 0805 SMT X7R
C150D		100N 50V 5%CAP 0805 SMT X7R
C150E		100N 50V 5%CAP 0805 SMT X7R
C150F		100N 50V 5%CAP 0805 SMT X7R
C151A		100N 50V 5%CAP 0805 SMT X7R
C151B		100N 50V 5%CAP 0805 SMT X7R
C151C		100N 50V 5%CAP 0805 SMT X7R
C151D		100N 50V 5%CAP 0805 SMT X7R
C151E		100N 50V 5%CAP 0805 SMT X7R
C151F		100N 50V 5%CAP 0805 SMT X7R
C152A		100N 50V 5%CAP 0805 SMT X7R
C152B		100N 50V 5%CAP 0805 SMT X7R
C152C		100N 50V 5%CAP 0805 SMT X7R
C152D		100N 50V 5%CAP 0805 SMT X7R
C152E		100N 50V 5%CAP 0805 SMT X7R
C152F		100N 50V 5%CAP 0805 SMT X7R
C153A		100N 50V 5%CAP 0805 SMT X7R
C153B		100N 50V 5%CAP 0805 SMT X7R
C153C		100N 50V 5%CAP 0805 SMT X7R
C153D		100N 50V 5%CAP 0805 SMT X7R
C153E		100N 50V 5%CAP 0805 SMT X7R
C153F		100N 50V 5%CAP 0805 SMT X7R
C154A		2N2 50V 10%CAP 0805 SMT X7R
C154C		2N2 50V 10%CAP 0805 SMT X7R
C154E		2N2 50V 10%CAP 0805 SMT X7R
C154G		2N2 50V 10%CAP 0805 SMT X7R
C155A		10U 63V 20%CAP 6.3MM SMT ELE
C155C		10U 63V 20%CAP 6.3MM SMT ELE
C155E		10U 63V 20%CAP 6.3MM SMT ELE
C155G		10U 63V 20%CAP 6.3MM SMT ELE
C156		10U 63V 20%CAP 6.3MM SMT ELE
C157		220N 50V 10%CAP 1206 SMT X7R
D1		5237B 8V2 0W2 SOT-23 SMT ZEN
D2		CDSF4148 75V 0A15 1005 SMT
D2A		CDSF4148 75V 0A15 1005 SMT
D2B		CDSF4148 75V 0A15 1005 SMT
D2C		CDSF4148 75V 0A15 1005 SMT
D2D		CDSF4148 75V 0A15 1005 SMT
D2E		CDSF4148 75V 0A15 1005 SMT
D2F		CDSF4148 75V 0A15 1005 SMT
D3		CDSF4148 75V 0A15 1005 SMT
D3A		CDSF4148 75V 0A15 1005 SMT
D3B		CDSF4148 75V 0A15 1005 SMT
D3C		CDSF4148 75V 0A15 1005 SMT
D3D		CDSF4148 75V 0A15 1005 SMT
D3E		CDSF4148 75V 0A15 1005 SMT
D3F		CDSF4148 75V 0A15 1005 SMT
D4		CDSF4148 75V 0A15 1005 SMT
D4G		CDSF4148 75V 0A15 1005 SMT
D4H		CDSF4148 75V 0A15 1005 SMT
D5		CDSF4148 75V 0A15 1005 SMT
D5G		CDSF4148 75V 0A15 1005 SMT
D5H		CDSF4148 75V 0A15 1005 SMT
D8		5237B 8V2 0W2 SOT-23 SMT ZEN
D9		5237B 8V2 0W2 SOT-23 SMT ZEN
D10A		CDSF4148 75V 0A15 1005 SMT
D10B		CDSF4148 75V 0A15 1005 SMT
D10C		CDSF4148 75V 0A15 1005 SMT
D10D		CDSF4148 75V 0A15 1005 SMT
D10E		CDSF4148 75V 0A15 1005 SMT
D10F		CDSF4148 75V 0A15 1005 SMT
D12A		CDSF4148 75V 0A15 1005 SMT
D12B		CDSF4148 75V 0A15 1005 SMT
D12C		CDSF4148 75V 0A15 1005 SMT
D12D		CDSF4148 75V 0A15 1005 SMT
D12E		CDSF4148 75V 0A15 1005 SMT
D12F		CDSF4148 75V 0A15 1005 SMT
D17		CDSF4148 75V 0A15 1005 SMT
D18		CDSF4148 75V 0A15 1005 SMT
D19		CDSF4148 75V 0A15 1005 SMT
D20		CDSF4148 75V 0A15 1005 SMT
D28		CDSF4148 75V 0A15 1005 SMT
D29		CDSF4148 75V 0A15 1005 SMT
D30		CDSF4148 75V 0A15 1005 SMT
D31		CDSF4148 75V 0A15 1005 SMT
D32		CDSF4148 75V 0A15 1005 SMT
D33		CDSF4148 75V 0A15 1005 SMT
D34		CDSF4148 75V 0A15 1005 SMT
D35		CDSF4148 75V 0A15 1005 SMT
J1A	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J1B	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J1C	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J1D	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J1E	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J1F	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J2A	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J2B	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J2C	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J2D	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J2E	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J2F	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J4G	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J4H	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J5G	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J5H	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J6G	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J6H	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J7	3466	RCA DUAL PCB MT VERT GOLD 24MM
J9	3466	RCA DUAL PCB MT VERT GOLD 24MM
J10	4182	1/4INJCK PCB MT VT ST RTS SW NJ6
J11	4182	1/4INJCK PCB MT VT ST RTS SW NJ6
J14	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J15	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J16	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J17	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J18	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J19	3929	1/4" JCK SNP PC MT VERT STER RT SWT
LD1		RED LED 1V5 20MA 1206 SMT
LD1A		GRN LED 2V8 20MA 1206 SMT
LD1B		GRN LED 2V8 20MA 1206 SMT
LD1C		GRN LED 2V8 20MA 1206 SMT
LD1D		GRN LED 2V8 20MA 1206 SMT
LD1E		GRN LED 2V8 20MA 1206 SMT
LD1F		GRN LED 2V8 20MA 1206 SMT
LD1FX		RED LED 1V5 20MA 1206 SMT
LD2A		RED LED 1V5 20MA 1206 SMT
LD2B		RED LED 1V5 20MA 1206 SMT
LD2C		RED LED 1V5 20MA 1206 SMT
LD2D		RED LED 1V5 20MA 1206 SMT
LD2E		RED LED 1V5 20MA 1206 SMT
LD2F		RED LED 1V5 20MA 1206 SMT
LD3G		RED LED 1V5 20MA 1206 SMT
LD3H		RED LED 1V5 20MA 1206 SMT
LD15		RED LED 1V5 20MA 1206 SMT
LD16		RED LED 1V5 20MA 1206 SMT
LD17		RED LED 1V5 20MA 1206 SMT
LD18		GRN LED 2V8 20MA 1206 SMT
P1A	4443	100K 5C R/A 9MM P32
P1B	4443	100K 5C R/A 9MM P32
P1C	4443	100K 5C R/A 9MM P32
P1D	4443	100K 5C R/A 9MM P32
P1E	4443	100K 5C R/A 9MM P32
P1F	4443	100K 5C R/A 9MM P32
P2A	4435	50K B LIN 9MM DETENT P32
P2B	4435	50K B LIN 9MM DETENT P32
P2C	4435	50K B LIN 9MM DETENT P32
P2D	4435	50K B LIN 9MM DETENT P32
P2E	4435	50K B LIN 9MM DETENT P32
P2F	4435	50K B LIN 9MM DETENT P32
P3A	4434	10K 1B LIN 9MM DETENT P32

M2188-02 p2 Parts Reference List 2023-04-10

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
P3B	4434	_10K 1B LIN 9MM DETENT P32	Q1A		MMBT3906LT1 PNP SOT-23 SMT T&R	R8B		W125 681R 1% 0805 SMT RES	R26E		W100 27K4 1% 0805 SMT RES	R40F		W125 470R 5% 0805 SMT RES
P3C	4434	_10K 1B LIN 9MM DETENT P32	Q1B		MMBT3906LT1 PNP SOT-23 SMT T&R	R8C		W125 681R 1% 0805 SMT RES	R26F		W100 27K4 1% 0805 SMT RES	R41A		W100 4K75 1% 0805 SMT RES
P3D	4434	_10K 1B LIN 9MM DETENT P32	Q1C		MMBT3906LT1 PNP SOT-23 SMT T&R	R8D		W125 681R 1% 0805 SMT RES	R27A		W100 220K 5% 0603 SMT RES	R41B		W100 4K75 1% 0805 SMT RES
P3E	4434	_10K 1B LIN 9MM DETENT P32	Q1D		MMBT3906LT1 PNP SOT-23 SMT T&R	R8E		W125 681R 1% 0805 SMT RES	R27B		W100 220K 5% 0603 SMT RES	R41C		W100 4K75 1% 0805 SMT RES
P3F	4434	_10K 1B LIN 9MM DETENT P32	Q1E		MMBT3906LT1 PNP SOT-23 SMT T&R	R8F		W125 681R 1% 0805 SMT RES	R27C		W100 220K 5% 0603 SMT RES	R41D		W100 4K75 1% 0805 SMT RES
P4A	4434	_10K 1B LIN 9MM DETENT P32	Q1F		MMBT3906LT1 PNP SOT-23 SMT T&R	R9A		W125 681R 1% 0805 SMT RES	R27D		W100 220K 5% 0603 SMT RES	R41E		W100 4K75 1% 0805 SMT RES
P4B	4434	_10K 1B LIN 9MM DETENT P32	Q1L		MMBT3906LT1 PNP SOT-23 SMT T&R	R9B		W125 681R 1% 0805 SMT RES	R27E		W100 220K 5% 0603 SMT RES	R41F		W100 4K75 1% 0805 SMT RES
P4C	4434	_10K 1B LIN 9MM DETENT P32	Q1R		MMBT3906LT1 PNP SOT-23 SMT T&R	R9C		W125 681R 1% 0805 SMT RES	R27F		W100 220K 5% 0603 SMT RES	R42A		W125 1K21 1% 0805 SMT RES
P4D	4434	_10K 1B LIN 9MM DETENT P32	Q2A		MMBT3906LT1 PNP SOT-23 SMT T&R	R9D		W125 681R 1% 0805 SMT RES	R28A		W125 10K 5% 0805 SMT RES	R42B		W125 1K21 1% 0805 SMT RES
P4E	4434	_10K 1B LIN 9MM DETENT P32	Q2B		MMBT3906LT1 PNP SOT-23 SMT T&R	R9E		W125 681R 1% 0805 SMT RES	R28B		W125 10K 5% 0805 SMT RES	R42C		W125 1K21 1% 0805 SMT RES
P4F	4434	_10K 1B LIN 9MM DETENT P32	Q2C		MMBT3906LT1 PNP SOT-23 SMT T&R	R9F		W125 681R 1% 0805 SMT RES	R28C		W125 10K 5% 0805 SMT RES	R42D		W125 1K21 1% 0805 SMT RES
P5A	4432	_10K B LIN 9MM P32	Q2D		MMBT3906LT1 PNP SOT-23 SMT T&R	R10A		W100 10K0 1% 0805 SMT RES	R28D		W125 10K 5% 0805 SMT RES	R42E		W125 1K21 1% 0805 SMT RES
P5B	4432	_10K B LIN 9MM P32	Q2E		MMBT3906LT1 PNP SOT-23 SMT T&R	R10B		W100 10K0 1% 0805 SMT RES	R28E		W125 10K 5% 0805 SMT RES	R42F		W125 1K21 1% 0805 SMT RES
P5C	4432	_10K B LIN 9MM P32	Q2F		MMBT3906LT1 PNP SOT-23 SMT T&R	R10C		W100 10K0 1% 0805 SMT RES	R28F		W125 10K 5% 0805 SMT RES	R43A		W100 18K2 1% 0805 SMT RES
P5D	4432	_10K B LIN 9MM P32	Q2L		MMBT3906LT1 PNP SOT-23 SMT T&R	R10D		W100 10K0 1% 0805 SMT RES	R29A		W125 10K 5% 0805 SMT RES	R43B		W100 18K2 1% 0805 SMT RES
P5E	4432	_10K B LIN 9MM P32	Q2R		MMBT3906LT1 PNP SOT-23 SMT T&R	R10E		W100 10K0 1% 0805 SMT RES	R29B		W125 10K 5% 0805 SMT RES	R43C		W100 18K2 1% 0805 SMT RES
P5F	4432	_10K B LIN 9MM P32	Q3G		MMBT3906LT1 PNP SOT-23 SMT T&R	R10F		W100 10K0 1% 0805 SMT RES	R29C		W125 10K 5% 0805 SMT RES	R43D		W100 18K2 1% 0805 SMT RES
P6A	4433	_50K B LIN 9MM P32	Q3H		MMBT3906LT1 PNP SOT-23 SMT T&R	R11A		W100 10K0 1% 0805 SMT RES	R29D		W125 10K 5% 0805 SMT RES	R43E		W100 18K2 1% 0805 SMT RES
P6B	4433	_50K B LIN 9MM P32	Q4L		MMBT3906LT1 PNP SOT-23 SMT T&R	R11B		W100 10K0 1% 0805 SMT RES	R29E		W125 10K 5% 0805 SMT RES	R43F		W100 18K2 1% 0805 SMT RES
P6C	4433	_50K B LIN 9MM P32	Q4R		MMBT3906LT1 PNP SOT-23 SMT T&R	R11C		W100 10K0 1% 0805 SMT RES	R29F		W125 10K 5% 0805 SMT RES	R44A		W125 1K21 1% 0805 SMT RES
P6D	4433	_50K B LIN 9MM P32	Q6L		MMBT3906LT1 PNP SOT-23 SMT T&R	R11D		W100 10K0 1% 0805 SMT RES	R30A		W125 47K 5% 0805 SMT RES	R44B		W125 1K21 1% 0805 SMT RES
P6E	4433	_50K B LIN 9MM P32	Q6R		MMBT3906LT1 PNP SOT-23 SMT T&R	R11E		W100 10K0 1% 0805 SMT RES	R30B		W125 47K 5% 0805 SMT RES	R44C		W125 1K21 1% 0805 SMT RES
P6F	4433	_50K B LIN 9MM P32	Q7		MMBT3904 NPN SOT-23 SMT	R11F		W100 10K0 1% 0805 SMT RES	R30C		W125 47K 5% 0805 SMT RES	R44D		W125 1K21 1% 0805 SMT RES
P7A	4433	_50K B LIN 9MM P32	Q8		MMBT3904 NPN SOT-23 SMT	R12A		W125 47R 5% 0805 SMT RES	R30D		W125 47K 5% 0805 SMT RES	R44E		W125 1K21 1% 0805 SMT RES
P7B	4433	_50K B LIN 9MM P32	Q9		MMBT3904 NPN SOT-23 SMT	R12B		W125 47R 5% 0805 SMT RES	R30E		W125 47K 5% 0805 SMT RES	R44F		W125 1K21 1% 0805 SMT RES
P7C	4433	_50K B LIN 9MM P32	Q9L		MMBT3906LT1 PNP SOT-23 SMT T&R	R12C		W125 47R 5% 0805 SMT RES	R30F		W125 47K 5% 0805 SMT RES	R45A		W125 82K5 1% 0805 SMT RES
P7D	4433	_50K B LIN 9MM P32	Q9R		MMBT3906LT1 PNP SOT-23 SMT T&R	R12D		W125 47R 5% 0805 SMT RES	R31A		W125 62K 5% 0805 SMT RES	R45B		W125 82K5 1% 0805 SMT RES
P7E	4433	_50K B LIN 9MM P32	Q10L		MMBT3906LT1 PNP SOT-23 SMT T&R	R12E		W125 47R 5% 0805 SMT RES	R31B		W125 62K 5% 0805 SMT RES	R45C		W125 82K5 1% 0805 SMT RES
P7F	4433	_50K B LIN 9MM P32	Q10R		MMBT3906LT1 PNP SOT-23 SMT T&R	R12F		W125 47R 5% 0805 SMT RES	R31C		W125 62K 5% 0805 SMT RES	R45D		W125 82K5 1% 0805 SMT RES
P8A	4434	_10K 1B LIN 9MM DETENT P32	Q11L		MMBT3906LT1 PNP SOT-23 SMT T&R	R13A		W125 140K 1% 0805 SMT RES	R31D		W125 62K 5% 0805 SMT RES	R45E		W125 82K5 1% 0805 SMT RES
P8B	4434	_10K 1B LIN 9MM DETENT P32	Q11R		MMBT3906LT1 PNP SOT-23 SMT T&R	R13B		W125 140K 1% 0805 SMT RES	R31E		W125 62K 5% 0805 SMT RES	R45F		W125 82K5 1% 0805 SMT RES
P8C	4434	_10K 1B LIN 9MM DETENT P32	Q12		MMBTA14 NPN DARL SOT-23 SMT	R13C		W125 140K 1% 0805 SMT RES	R31F		W125 62K 5% 0805 SMT RES	R46A		W125 470R 5% 0805 SMT RES
P8D	4434	_10K 1B LIN 9MM DETENT P32	Q12L		MMBT3906LT1 PNP SOT-23 SMT T&R	R13D		W125 140K 1% 0805 SMT RES	R32A		W125 22M0 5% 0805 SMT RES	R46B		W125 470R 5% 0805 SMT RES
P8E	4434	_10K 1B LIN 9MM DETENT P32	Q12R		MMBT3906LT1 PNP SOT-23 SMT T&R	R13E		W125 140K 1% 0805 SMT RES	R32B		W125 22M0 5% 0805 SMT RES	R46C		W125 470R 5% 0805 SMT RES
P8F	4434	_10K 1B LIN 9MM DETENT P32	Q13		MMBT3904 NPN SOT-23 SMT	R13F		W125 140K 1% 0805 SMT RES	R32C		W125 22M0 5% 0805 SMT RES	R46D		W125 470R 5% 0805 SMT RES
P9G	4443	100K 5C R/A 9MM P32	Q13L		MMBT3906LT1 PNP SOT-23 SMT T&R	R14A		W125 140K 1% 0805 SMT RES	R32D		W125 22M0 5% 0805 SMT RES	R46E		W125 470R 5% 0805 SMT RES
P9H	4443	100K 5C R/A 9MM P32	Q13R		MMBT3906LT1 PNP SOT-23 SMT T&R	R14B		W125 140K 1% 0805 SMT RES	R32E		W125 22M0 5% 0805 SMT RES	R46F		W125 470R 5% 0805 SMT RES
P10G	4431	_10K 5C R/A 12MM STEREO P34	Q14		MMBT3904 NPN SOT-23 SMT	R14C		W125 140K 1% 0805 SMT RES	R32F		W125 22M0 5% 0805 SMT RES	R47A		W100 4K75 1% 0805 SMT RES
P10H	4431	_10K 5C R/A 12MM STEREO P34	R1A		W100 4K99 1% 0805 SMT RES	R14D		W125 140K 1% 0805 SMT RES	R33		W100 10K0 1% 0805 SMT RES	R47B		W100 4K75 1% 0805 SMT RES
P11FX	6578	ROT BIN 18MM 4BIT ENCODER P23	R1B		W100 4K99 1% 0805 SMT RES	R14E		W125 140K 1% 0805 SMT RES	R34A		W125 470R 5% 0805 SMT RES	R47C		W100 4K75 1% 0805 SMT RES
P12FX	4434	_10K 1B LIN 9MM DETENT P32	R1C		W100 4K99 1% 0805 SMT RES	R14F		W125 140K 1% 0805 SMT RES	R34B		W125 470R 5% 0805 SMT RES	R47D		W100 4K75 1% 0805 SMT RES
P12G	4439	_50K B LIN 12MM STEREO DETENTP34	R1D		W100 4K99 1% 0805 SMT RES	R15A		W100 10K0 1% 0805 SMT RES	R34C		W125 470R 5% 0805 SMT RES	R47E		W100 4K75 1% 0805 SMT RES
P12H	4439	_50K B LIN 12MM STEREO DETENTP34	R1E		W100 4K99 1% 0805 SMT RES	R15B		W100 10K0 1% 0805 SMT RES	R34D		W125 470R 5% 0805 SMT RES	R47F		W100 4K75 1% 0805 SMT RES
P13G	4438	_10K B LIN 12MM STEREO DETENTP34	R1F		W100 4K99 1% 0805 SMT RES	R15C		W100 10K0 1% 0805 SMT RES	R34E		W125 470R 5% 0805 SMT RES	R48A		W100 10M 1% 0805 SMT RES
P13H	4438	_10K B LIN 12MM STEREO DETENTP34	R2A		W100 4K99 1% 0805 SMT RES	R15D		W100 10K0 1% 0805 SMT RES	R34F		W125 470R 5% 0805 SMT RES	R48B		W100 10M 1% 0805 SMT RES
P14G	4438	_10K B LIN 12MM STEREO DETENTP34	R2B		W100 4K99 1% 0805 SMT RES	R15E		W100 10K0 1% 0805 SMT RES	R35A		W100 15K0 1% 0805 SMT RES	R48C		W100 10M 1% 0805 SMT RES
P14H	4438	_10K B LIN 12MM STEREO DETENTP34	R2C		W100 4K99 1% 0805 SMT RES	R15F		W100 10K0 1% 0805 SMT RES	R35B		W100 15K0 1% 0805 SMT RES	R48D		W100 10M 1% 0805 SMT RES
P15G	4433	_50K B LIN 9MM P32	R2D		W100 4K99 1% 0805 SMT RES	R16A		W100 10K0 1% 0805 SMT RES	R35C		W100 15K0 1% 0805 SMT RES	R48E		W100 10M 1% 0805 SMT RES
P15H	4433	_50K B LIN 9MM P32	R2E		W100 4K99 1% 0805 SMT RES	R16B		W100 10K0 1% 0805 SMT RES	R35D		W100 15K0 1% 0805 SMT RES	R48F		W100 10M 1% 0805 SMT RES
P16G	4434	_10K 1B LIN 9MM DETENT P32	R2F		W100 4K99 1% 0805 SMT RES	R16C		W100 10K0 1% 0805 SMT RES	R35E		W100 15K0 1% 0805 SMT RES	R49A		W125 10K 5% 0805 SMT RES
P16H	4434	_10K 1B LIN 9MM DETENT P32	R3A_		W100 4K99 1% 0805 SMT RES	R16D		W100 10K0 1% 0805 SMT RES	R35F		W100 15K0 1% 0805 SMT RES	R49B		W125 10K 5% 0805 SMT RES
P17	4447	_20K 15A AUD 12MM STEREO P34	R3C_		W100 4K99 1% 0805 SMT RES	R16E		W100 10K0 1% 0805 SMT RES	R36A		W100 100R 1% 0603 SMT RES	R49C		W125 10K 5% 0805 SMT RES
P18	4426	_20K 4B LIN 9MM P32	R3E_		W100 4K99 1% 0805 SMT RES	R16F		W100 10K0 1% 0805 SMT RES	R36B		W100 100R 1% 0603 SMT RES	R49D		W125 10K 5% 0805 SMT RES
P19	4433	_50K B LIN 9MM P32	R3G_		W100 4K99 1% 0805 SMT RES	R17A		W100 4K99 1% 0805 SMT RES	R36C		W100 100R 1% 0603 SMT RES	R49E		W125 10K 5% 0805 SMT RES
P20	4437	_50K B LIN 12MM STEREO P34	R4A		W100 6K98 1% 0805 SMT RES	R17B		W100 4K99 1% 0805 SMT RES	R36D		W100 100R 1% 0603 SMT RES	R49F		W125 10K 5% 0805 SMT RES
P21	4441	_50K 4B LIN 12MM STEREO P34	R4B		W100 6K98 1% 0805 SMT RES	R17C		W100 4K99 1% 0805 SMT RES	R36E		W100 100R 1% 0603 SMT RES	R50A		W125 1K5 5% 0805 SMT RES
P23	4437	_50K B LIN 12MM STEREO P34	R4C		W100 6K98 1% 0805 SMT RES	R17D		W100 4K99 1% 0805 SMT RES	R36F		W100 100R 1% 0603 SMT RES	R50B		W125 1K5 5% 0805 SMT RES
P25L	4015	_20K 1B LIN 20MM DETENT S24	R4D		W100 6K98 1% 0805 SMT RES	R17E		W100 4K99 1% 0805 SMT RES	R37A		W100 100R 1% 0603 SMT RES	R50C		W125 1K5 5% 0805 SMT RES
P25R	4015	_20K 1B LIN 20MM DETENT S24	R4E		W100 6K98 1% 0805 SMT RES	R17F		W100 4K99 1% 0805 SMT RES	R37B		W100 100R 1% 0603 SMT RES	R50D		W125 1K5 5% 0805 SMT RES
P26L	4015	_20K 1B LIN 20MM DETENT S24	R4F		W100 6K98 1% 0805 SMT RES	R18A		W100 4K99 1% 0805 SMT RES	R37C		W100 100R 1% 0603 SMT RES	R50E		W125 1K5 5% 0805 SMT RES
P26R	4015	_20K 1B LIN 20MM DETENT S24	R5A		W100 6K98 1% 0805 SMT RES	R18B		W100 4K99 1% 0805 SMT RES	R37D		W100 100R 1% 0603 SMT RES	R50F		W125 1K5 5% 0805 SMT RES
P27L	4015	_20K 1B LIN 20MM DETENT S24	R5B		W100 6K98 1% 0805 SMT RES	R18C		W100 4K99 1% 0805 SMT RES	R37E		W100 100R 1% 0603 SMT RES	R51A		W125 10K 5% 0805 SMT RES
P27R	4015	_20K 1B LIN 20MM DETENT S24	R5C		W100 6K98 1% 0805 SMT RES	R18D		W100 4K99 1% 0805 SMT RES	R37F		W100 100R 1% 0603 SMT RES	R51B		W125 10K 5% 0805 SMT RES
P28L	4015	_20K 1B LIN 20MM DETENT S24	R5D		W100 6K98 1% 0805 SMT RES	R18E		W100 4K99 1% 0805 SMT RES	R38A		W100 15K0 1% 0805 SMT RES	R51C		W125 10K 5% 0805 SMT RES
P28R	4015	_20K 1B LIN 20MM DETENT S24	R5E		W100 6K98 1% 0805 SMT RES	R18F		W100 4K99 1% 0805 SMT RES	R38B		W100 15K0 1% 0805 SMT RES	R51D		W125 10K 5% 0805 SMT RES
P29L	4015	_20K 1B LIN 20MM DETENT S24	R5F		W100 6K98 1% 0805 SMT RES	R19		W100 1K0 1% 0805 SMT RES	R38C		W100 15K0 1% 0805 SMT RES	R51E		W125 10K 5% 0805 SMT RES
P29R	4015	_20K 1B LIN 20MM DETENT S24	R6A		W100 100R 1% 0805 SMT RES	R21		W100 1K0 1% 0805 SMT RES	R38D		W100 15K0 1% 0805 SMT RES	R51F		W125 10K 5% 0805 SMT RES
P30L	4015	_20K 1B LIN 20MM DETENT S24	R6B		W100 100R 1% 0805 SMT RES	R22		W100 10K0 1% 0805 SMT RES	R38E		W100 15K0 1% 0805 SMT RES	R52A		W125 10K 5% 0805 SMT RES
P30R	4015	_20K 1B LIN 20MM DETENT S24	R6C		W100 100R 1% 0805 SMT RES	R23A		W125 10K 5% 0805 SMT RES	R38F		W100 15K0 1% 0805 SMT RES	R52B		W125 10K 5% 0805 SMT RES
P31L	4015	_20K 1B LIN 20MM DETENT S24	R6D		W100 100R 1% 0805 SMT RES	R23B		W125 10K 5% 0805 SMT RES	R39A		W125 33K 5% 0805 SMT RES	R52C		W125 10K 5% 0805 SMT RES
P31R	4015	_20K 1B LIN 20MM DETENT S24	R6E		W100 100R 1% 0805 SMT RES	R23C		W125 10K 5% 0805 SMT RES	R39B		W125 33K 5% 0805 SMT RES	R52D		W125 10K 5% 0805 SMT RES
P32L	4015	_20K 1B LIN 20MM DETENT S24	R6F		W100 100R 1% 0805 SMT RES	R23D		W125 10K 5% 0805 SMT RES	R39C		W125 33K 5% 0805 SMT RES	R52E		W125 10K 5% 0805 SMT RES
P32R	4015	_20K 1B LIN 20MM DETENT S24	R7A		W100 100R 1% 0805 SMT RES	R23E		W125 10K 5% 0805 SMT RES	R39D		W125 33K 5% 0805 SMT RES	R52F		W125 10K 5% 0805 SMT RES
P34L	4015	_20K 1B LIN 20MM DETENT S24	R7B		W100 100R 1% 0805 SMT RES	R23F		W125 10K 5% 0805 SMT RES	R39E		W125 33K 5% 0805 SMT RES	R53A		W125 1K5 5% 0805 SMT RES
P34R	4015	_20K 1B LIN 20MM DETENT S24	R7C		W100 100R 1% 0805 SMT RES	R24		W100 10K0 1% 0805 SMT RES	R39F		W125 33K 5% 0805 SMT RES	R53B		W125 1K5 5% 0805 SMT RES
P35	4435	_50K B LIN 9MM DETENT P32	R7D		W100 100R 1% 0805 SMT RES	R25		W100 10K0 1% 0805 SMT RES	R40A		W125 470R 5% 0805 SMT RES	R53C		W125 1K5 5% 0805 SMT RES
P36	4435	_50K B LIN 9MM DETENT P32	R7E		W100 100R 1% 0805 SMT RES	R26A		W100 27K4 1% 0805 SMT RES	R40B		W125 470R 5% 0805 SMT RES	R53D		W125 1K5 5% 0805 SMT RES
P37	4435	_50K B LIN 9MM DETENT P32	R7F		W100 100R 1% 0805 SMT RES	R26B		W100 27K4 1% 0805 SMT RES	R40C		W125 470R 5% 0805 SMT RES	R53E		W125 1K5 5% 0805 SMT RES
P38	4435	_50K B LIN 9MM DETENT P32	R7FX		W100 100R 1% 0603 SMT RES	R26C		W100 27K4 1% 0805 SMT RES	R40D		W125 470R 5% 0805 SMT RES	R53F		W125 1K5 5% 0805 SMT RES
PCB1	M2188BLANK	2_OZ 2SD 181.14 SQIN 01PR M1610/810	R8A		W125 681R 1% 0805 SMT RES	R26D		W100 27K4 1% 0805 SMT RES	R40E		W125 470R 5% 0805 SMT RES	R54A		W125 1K5 5% 0805 SMT RES

M2188-02 p3 Parts Reference List 2023-04-10

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R54B		W125 1K5 5% 0805 SMT RES	R83H		W125 82K5 1% 0805 SMT RES	R128		W125 10K 5% 0805 SMT RES	R189L		W100 15K0 1% 0805 SMT RES	R218E_		W100 4K99 1% 0805 SMT RES
R54C		W125 1K5 5% 0805 SMT RES	R84G		W125 82K5 1% 0805 SMT RES	R129		W125 10K 5% 0805 SMT RES	R189R		W100 15K0 1% 0805 SMT RES	R218G_		W100 6K98 1% 0805 SMT RES
R54D		W125 1K5 5% 0805 SMT RES	R84H		W125 82K5 1% 0805 SMT RES	R130		W125 10K 5% 0805 SMT RES	R190L		W100 56K 1% 0603 SMT RES	R218G_		W100 4K99 1% 0805 SMT RES
R54E		W125 1K5 5% 0805 SMT RES	R85G		W100 4K75 1% 0805 SMT RES	R131		W100 10K0 1% 0805 SMT RES	R190R		W100 56K 1% 0603 SMT RES	R218H		W100 6K98 1% 0805 SMT RES
R54F		W125 1K5 5% 0805 SMT RES	R85H		W100 4K75 1% 0805 SMT RES	R132		W100 10K0 1% 0805 SMT RES	R191L		W100 7K50 1% 0805 SMT RES	R219A_		W100 4K99 1% 0805 SMT RES
R55A		W100 4K75 1% 0805 SMT RES	R86G		W125 470R 5% 0805 SMT RES	R133		W100 20K0 1% 0805 SMT RES	R191R		W100 7K50 1% 0805 SMT RES	R219C_		W100 4K99 1% 0805 SMT RES
R55B		W100 4K75 1% 0805 SMT RES	R86H		W125 470R 5% 0805 SMT RES	R134		W100 20K0 1% 0805 SMT RES	R192L		W125 750R 1% 0805 SMT RES	R219E_		W100 4K99 1% 0805 SMT RES
R55C		W100 4K75 1% 0805 SMT RES	R87G		W100 4K75 1% 0805 SMT RES	R135		W100 20K0 1% 0805 SMT RES	R192R		W125 750R 1% 0805 SMT RES	R219G		W100 6K98 1% 0805 SMT RES
R55D		W100 4K75 1% 0805 SMT RES	R87H		W100 4K75 1% 0805 SMT RES	R136		W100 20K0 1% 0805 SMT RES	R193L		W100 56K 1% 0603 SMT RES	R219G_		W100 4K99 1% 0805 SMT RES
R55E		W100 4K75 1% 0805 SMT RES	R88G		W125 470R 5% 0805 SMT RES	R137		W063 49R9 1% 0603 SMT RES	R193R		W100 56K 1% 0603 SMT RES	R219H		W100 6K98 1% 0805 SMT RES
R55F		W100 4K75 1% 0805 SMT RES	R88H		W125 470R 5% 0805 SMT RES	R138		W100 2K74 1% 0805 SMT RES	R194L		W100 7K50 1% 0805 SMT RES	R220A		W100 4K99 1% 0805 SMT RES
R56A		W125 10K 5% 0805 SMT RES	R89G		W125 1K21 1% 0805 SMT RES	R139		W100 2K74 1% 0805 SMT RES	R194R		W100 7K50 1% 0805 SMT RES	R220C_		W100 4K99 1% 0805 SMT RES
R56B		W125 10K 5% 0805 SMT RES	R89H		W125 1K21 1% 0805 SMT RES	R140		W100 3K74 1% 0805 SMT RES	R195L		W125 681R 1% 0805 SMT RES	R220E_		W100 4K99 1% 0805 SMT RES
R56C		W125 10K 5% 0805 SMT RES	R90G		W125 1K21 1% 0805 SMT RES	R141		W125 2K2 5% 0805 SMT RES	R195R		W125 681R 1% 0805 SMT RES	R220G		W100 6K98 1% 0805 SMT RES
R56D		W125 10K 5% 0805 SMT RES	R90H		W125 1K21 1% 0805 SMT RES	R142		W100 4K75 1% 0805 SMT RES	R196L		W100 56K 1% 0603 SMT RES	R220G_		W100 4K99 1% 0805 SMT RES
R56E		W125 10K 5% 0805 SMT RES	R91G		W125 82K5 1% 0805 SMT RES	R143		W125 1K21 1% 0805 SMT RES	R196R		W100 56K 1% 0603 SMT RES	R220H		W100 6K98 1% 0805 SMT RES
R56F		W125 10K 5% 0805 SMT RES	R91H		W125 82K5 1% 0805 SMT RES	R144		W100 10K0 1% 0805 SMT RES	R197L		W100 7K50 1% 0805 SMT RES	R221A_		W100 4K99 1% 0805 SMT RES
R57A		W125 10K 5% 0805 SMT RES	R92G		W125 82K5 1% 0805 SMT RES	R146		W100 10K0 1% 0805 SMT RES	R197R		W100 7K50 1% 0805 SMT RES	R221C_		W100 4K99 1% 0805 SMT RES
R57B		W125 10K 5% 0805 SMT RES	R92H		W125 82K5 1% 0805 SMT RES	R147		W100 10K0 1% 0805 SMT RES	R198L		W125 681R 1% 0805 SMT RES	R221E_		W100 4K99 1% 0805 SMT RES
R57C		W125 10K 5% 0805 SMT RES	R93G		W100 18K2 1% 0805 SMT RES	R148		W125 2K2 5% 0805 SMT RES	R198R		W125 681R 1% 0805 SMT RES	R221G		W100 6K98 1% 0805 SMT RES
R57D		W125 10K 5% 0805 SMT RES	R93H		W100 18K2 1% 0805 SMT RES	R149		W100 10K0 1% 0805 SMT RES	R199L		W100 100R 1% 0603 SMT RES	R221G_		W100 4K99 1% 0805 SMT RES
R57E		W125 10K 5% 0805 SMT RES	R94G		W100 18K2 1% 0805 SMT RES	R150		W100 10K0 1% 0805 SMT RES	R199R		W100 100R 1% 0603 SMT RES	R221H		W100 6K98 1% 0805 SMT RES
R57F		W125 10K 5% 0805 SMT RES	R94H		W100 18K2 1% 0805 SMT RES	R151		W100 10K0 1% 0805 SMT RES	R200L		W100 100R 1% 0603 SMT RES	R222G		W100 6K98 1% 0805 SMT RES
R58A		W125 10K 5% 0805 SMT RES	R95G		W125 470R 5% 0805 SMT RES	R152E		W125 22K 5% 0805 SMT RES	R200R		W100 100R 1% 0603 SMT RES	R222H		W100 6K98 1% 0805 SMT RES
R58B		W125 10K 5% 0805 SMT RES	R95H		W125 470R 5% 0805 SMT RES	R152F		W125 22K 5% 0805 SMT RES	R201L		W100 100R 1% 0603 SMT RES	R223G		W100 6K98 1% 0805 SMT RES
R58C		W125 10K 5% 0805 SMT RES	R96G		W125 470R 5% 0805 SMT RES	R154		W100 10K0 1% 0805 SMT RES	R201R		W100 100R 1% 0603 SMT RES	R223H		W100 6K98 1% 0805 SMT RES
R58D		W125 10K 5% 0805 SMT RES	R96H		W125 470R 5% 0805 SMT RES	R155		W100 1K0 1% 0805 SMT RES	R202L		W100 100R 1% 0603 SMT RES	R228E		W125 47K5 1% 0805 SMT RES
R58E		W125 10K 5% 0805 SMT RES	R97G		W125 4M7 5% 0805 SMT RES	R156		W100 1K0 1% 0805 SMT RES	R202R		W100 100R 1% 0603 SMT RES	R228F		W125 47K5 1% 0805 SMT RES
R58F		W125 10K 5% 0805 SMT RES	R97H		W125 4M7 5% 0805 SMT RES	R157		W063 10R 5% 0603 SMT RES	R203L		W100 100R 1% 0603 SMT RES	R232		W100 20K0 1% 0805 SMT RES
R59A		W125 10K 5% 0805 SMT RES	R98G		W125 4M7 5% 0805 SMT RES	R158		W100 1K0 1% 0805 SMT RES	R203R		W100 100R 1% 0603 SMT RES	R234E		W100 4K75 1% 0805 SMT RES
R59B		W125 10K 5% 0805 SMT RES	R98H		W125 4M7 5% 0805 SMT RES	R159		W100 1K0 1% 0805 SMT RES	R204L		W100 100R 1% 0603 SMT RES	R234F		W100 4K75 1% 0805 SMT RES
R59C		W125 10K 5% 0805 SMT RES	R99G		W100 4K75 1% 0805 SMT RES	R160		W063 10R 5% 0603 SMT RES	R204R		W100 100R 1% 0603 SMT RES	R235		W250 619R0 1% 1206 SMT RES
R59D		W125 10K 5% 0805 SMT RES	R99H		W100 4K75 1% 0805 SMT RES	R161		W100 10K0 1% 0805 SMT RES	R205L		W100 100R 1% 0603 SMT RES	R236		W250 619R0 1% 1206 SMT RES
R59E		W125 10K 5% 0805 SMT RES	R100G		W125 1K21 1% 0805 SMT RES	R162		W100 10K0 1% 0805 SMT RES	R205R		W100 100R 1% 0603 SMT RES	R237		W250 619R0 1% 1206 SMT RES
R59F		W125 10K 5% 0805 SMT RES	R100H		W125 1K21 1% 0805 SMT RES	R163		W100 10K0 1% 0805 SMT RES	R206L		W100 100R 1% 0603 SMT RES	R238		W250 619R0 1% 1206 SMT RES
R60G		W100 6K98 1% 0805 SMT RES	R101G		W100 4K75 1% 0805 SMT RES	R164		W250 619R0 1% 1206 SMT RES	R206R		W100 100R 1% 0603 SMT RES	R239		W250 619R0 1% 1206 SMT RES
R60H		W100 6K98 1% 0805 SMT RES	R101H		W100 4K75 1% 0805 SMT RES	R165		W250 619R0 1% 1206 SMT RES	R207L		W100 100R 1% 0603 SMT RES	R240		W100 10K0 1% 0805 SMT RES
R61G		W100 6K98 1% 0805 SMT RES	R102G		W125 1K21 1% 0805 SMT RES	R166		W250 619R0 1% 1206 SMT RES	R207R		W100 100R 1% 0603 SMT RES	R241		W100 10K0 1% 0805 SMT RES
R61H		W100 6K98 1% 0805 SMT RES	R102H		W125 1K21 1% 0805 SMT RES	R167		W125 10K 5% 0805 SMT RES	R208L		W125 47K 5% 0805 SMT RES	R242		W100 10K0 1% 0805 SMT RES
R63G		W100 3K74 1% 0805 SMT RES	R103G		W125 33K 5% 0805 SMT RES	R168		W125 10K 5% 0805 SMT RES	R208R		W125 47K 5% 0805 SMT RES	R243		W100 10K0 1% 0805 SMT RES
R63H		W100 3K74 1% 0805 SMT RES	R103H		W125 33K 5% 0805 SMT RES	R169L		W125 750R 1% 0805 SMT RES	R209L		W100 7K50 1% 0805 SMT RES	R244		W100 10K0 1% 0805 SMT RES
R64G		W100 3K74 1% 0805 SMT RES	R104G		W125 10K 5% 0805 SMT RES	R169R		W125 750R 1% 0805 SMT RES	R209R		W100 7K50 1% 0805 SMT RES	R245		W100 10K0 1% 0805 SMT RES
R64H		W100 3K74 1% 0805 SMT RES	R104H		W125 10K 5% 0805 SMT RES	R170L		W100 56K 1% 0603 SMT RES	R212A		W100 6K98 1% 0805 SMT RES	R246		W250 619R0 1% 1206 SMT RES
R65G		W125 4K12 1% 0805 SMT RES	R105G		W100 4K75 1% 0805 SMT RES	R170R		W100 56K 1% 0603 SMT RES	R212B		W100 6K98 1% 0805 SMT RES	R247		W100 10K0 1% 0805 SMT RES
R65H		W125 4K12 1% 0805 SMT RES	R105H		W100 4K75 1% 0805 SMT RES	R171L		W100 7K50 1% 0805 SMT RES	R212C		W100 6K98 1% 0805 SMT RES	R248		W100 10K0 1% 0805 SMT RES
R66G		W125 4K12 1% 0805 SMT RES	R106G		W125 10K 5% 0805 SMT RES	R171R		W100 7K50 1% 0805 SMT RES	R212D		W100 6K98 1% 0805 SMT RES	R249		W250 619R0 1% 1206 SMT RES
R66H		W125 4K12 1% 0805 SMT RES	R106H		W125 10K 5% 0805 SMT RES	R172L		W125 681R 1% 0805 SMT RES	R212E		W100 6K98 1% 0805 SMT RES	R250		W100 10K0 1% 0805 SMT RES
R67G		W125 249R0 1% 0805 SMT RES	R107G		W125 1K5 5% 0805 SMT RES	R172R		W125 681R 1% 0805 SMT RES	R212F		W100 6K98 1% 0805 SMT RES	R251		W100 10K0 1% 0805 SMT RES
R67H		W125 249R0 1% 0805 SMT RES	R107H		W125 1K5 5% 0805 SMT RES	R173L		W100 56K 1% 0603 SMT RES	R213A		W100 6K98 1% 0805 SMT RES	R252		W250 619R0 1% 1206 SMT RES
R68G		W125 249R0 1% 0805 SMT RES	R108G		W125 1K5 5% 0805 SMT RES	R173R		W100 56K 1% 0603 SMT RES	R213B		W100 6K98 1% 0805 SMT RES	R253		W100 10K0 1% 0805 SMT RES
R68H		W125 249R0 1% 0805 SMT RES	R108H		W125 1K5 5% 0805 SMT RES	R174L		W100 7K50 1% 0805 SMT RES	R213C		W100 6K98 1% 0805 SMT RES	R254		W100 10K0 1% 0805 SMT RES
R69G		W125 562R0 1% 0805 SMT RES	R109G		W125 10K 5% 0805 SMT RES	R174R		W100 7K50 1% 0805 SMT RES	R213D		W100 6K98 1% 0805 SMT RES	R255		W250 619R0 1% 1206 SMT RES
R69H		W125 562R0 1% 0805 SMT RES	R109H		W125 10K 5% 0805 SMT RES	R175L		W125 681R 1% 0805 SMT RES	R213E		W100 6K98 1% 0805 SMT RES	R256		W100 10K0 1% 0805 SMT RES
R70G		W125 562R0 1% 0805 SMT RES	R110G		W125 10K 5% 0805 SMT RES	R175R		W125 681R 1% 0805 SMT RES	R213F		W100 6K98 1% 0805 SMT RES	R257		W100 10K0 1% 0805 SMT RES
R70H		W125 562R0 1% 0805 SMT RES	R110H		W125 10K 5% 0805 SMT RES	R176L		W100 56K 1% 0603 SMT RES	R214A		W100 6K98 1% 0805 SMT RES	R258		W100 10K0 1% 0805 SMT RES
R71G		W100 825R 1% 0805 SMT RES	R111G		W125 10K 5% 0805 SMT RES	R176R		W100 56K 1% 0603 SMT RES	R214B		W100 6K98 1% 0805 SMT RES	R259		W100 182K 1% 0805 SMT RES
R71H		W100 825R 1% 0805 SMT RES	R111H		W125 10K 5% 0805 SMT RES	R177L		W100 7K50 1% 0805 SMT RES	R214C		W100 6K98 1% 0805 SMT RES	R260E		W125 10K 5% 0805 SMT RES
R72G		W100 825R 1% 0805 SMT RES	R112G		W125 10K 5% 0805 SMT RES	R177R		W100 7K50 1% 0805 SMT RES	R214D		W100 6K98 1% 0805 SMT RES	R260F		W125 10K 5% 0805 SMT RES
R72H		W100 825R 1% 0805 SMT RES	R112H		W125 10K 5% 0805 SMT RES	R178L		W125 681R 1% 0805 SMT RES	R214E		W100 6K98 1% 0805 SMT RES	R261E		W125 10K 5% 0805 SMT RES
R73G		W100 4K99 1% 0805 SMT RES	R113		W100 1K0 1% 0805 SMT RES	R178R		W125 681R 1% 0805 SMT RES	R214F		W100 6K98 1% 0805 SMT RES	R261F		W125 10K 5% 0805 SMT RES
R73H		W100 4K99 1% 0805 SMT RES	R114		W100 20K5 1% 0805 SMT RES	R179L		W125 47K 5% 0805 SMT RES	R215A		W100 6K98 1% 0805 SMT RES	R262E		W125 1M 5% 0805 SMT RES
R74G		W100 4K99 1% 0805 SMT RES	R115		W100 20K5 1% 0805 SMT RES	R179R		W125 47K 5% 0805 SMT RES	R215B		W100 6K98 1% 0805 SMT RES	R262F		W125 1M 5% 0805 SMT RES
R74H		W100 4K99 1% 0805 SMT RES	R116		W250 100R 5% 1206 SMT RES	R180L		W100 7K50 1% 0805 SMT RES	R215C		W100 6K98 1% 0805 SMT RES	R263		W100 221R 1% 0805 SMT RES
R75G		W100 4K99 1% 0805 SMT RES	R117		W100 100R 1% 0805 SMT RES	R180R		W100 7K50 1% 0805 SMT RES	R215D		W100 6K98 1% 0805 SMT RES	R264		W100 221R 1% 0805 SMT RES
R75H		W100 4K99 1% 0805 SMT RES	R118		W125 10K 5% 0805 SMT RES	R181L		W125 681R 1% 0805 SMT RES	R215E		W100 6K98 1% 0805 SMT RES	R265		W100 221R 1% 0805 SMT RES
R76G		W100 4K99 1% 0805 SMT RES	R119		W250 619R0 1% 1206 SMT RES	R181R		W125 681R 1% 0805 SMT RES	R215F		W100 6K98 1% 0805 SMT RES	R266		W100 182K 1% 0805 SMT RES
R76H		W100 4K99 1% 0805 SMT RES	R120		W250 619R0 1% 1206 SMT RES	R182L		W100 56K 1% 0603 SMT RES	R216A		W100 6K98 1% 0805 SMT RES	R267		W100 221R 1% 0805 SMT RES
R77G		W125 10K 5% 0805 SMT RES	R121		W125 10K 5% 0805 SMT RES	R182R		W100 56K 1% 0603 SMT RES	R216B		W100 6K98 1% 0805 SMT RES	R268		W125 10K 5% 0805 SMT RES
R77H		W125 10K 5% 0805 SMT RES	R122		W125 10K 5% 0805 SMT RES	R183L		W100 7K50 1% 0805 SMT RES	R216C		W100 6K98 1% 0805 SMT RES	R269		W100 221R 1% 0805 SMT RES
R78G		W125 10K 5% 0805 SMT RES	R123		W125 10K 5% 0805 SMT RES	R183R		W100 7K50 1% 0805 SMT RES	R216D		W100 6K98 1% 0805 SMT RES	R270		W125 33K 5% 0805 SMT RES
R78H		W125 10K 5% 0805 SMT RES	R124		W125 10K 5% 0805 SMT RES	R184L		W100 150R 5% 0805 SMT RES	R216E		W100 6K98 1% 0805 SMT RES	R271		W125 33K 5% 0805 SMT RES
R79G		W100 100R 1% 0603 SMT RES	R125A		W100 221R 1% 0805 SMT RES	R184R		W100 150R 5% 0805 SMT RES	R216F		W100 6K98 1% 0805 SMT RES	R272		W125 10K 5% 0805 SMT RES
R79H		W100 100R 1% 0603 SMT RES	R125B		W100 221R 1% 0805 SMT RES	R185L		W100 15K0 1% 0805 SMT RES	R217A		W100 6K98 1% 0805 SMT RES	R273		W125 33K 5% 0805 SMT RES
R80G		W100 100R 1% 0603 SMT RES	R125C		W100 221R 1% 0805 SMT RES	R185R		W100 15K0 1% 0805 SMT RES	R217B		W100 6K98 1% 0805 SMT RES	R274		W125 1K5 5% 0805 SMT RES
R80H		W100 100R 1% 0603 SMT RES	R125D		W100 221R 1% 0805 SMT RES	R186L		W125 750R 1% 0805 SMT RES	R217C		W100 6K98 1% 0805 SMT RES	R275		W100 221R 1% 0805 SMT RES
R81G		W100 475R 1% 0805 SMT RES	R125E		W100 221R 1% 0805 SMT RES	R186R		W125 750R 1% 0805 SMT RES	R217D		W100 6K98 1% 0805 SMT RES	R276		W125 8K25 1% 0805 SMT RES
R81H		W100 475R 1% 0805 SMT RES	R125F		W100 221R 1% 0805 SMT RES	R187L		W100 15K0 1% 0805 SMT RES	R217E		W100 6K98 1% 0805 SMT RES	R277		W125 4M7 5% 0805 SMT RES
R82G		W125 22K 5% 0805 SMT RES	R126G		W100 221R 1% 0805 SMT RES	R187R		W100 15K0 1% 0805 SMT RES	R217F		W100 6K98 1% 0805 SMT RES	R278		W100 182K 1% 0805 SMT RES
R82H		W125 22K 5% 0805 SMT RES	R126H		W100 221R 1% 0805 SMT RES	R188L		W100 15K0 1% 0805 SMT RES	R218A_		W100 4K99 1% 0805 SMT RES	R279		W125 47K 5% 0805 SMT RES
R83G		W125 82K5 1% 0805 SMT RES	R127		W125 10K 5% 0805 SMT RES	R188R		W100 15K0 1% 0805 SMT RES	R218C_		W100 4K99 1% 0805 SMT RES	R280		W100 4K75 1% 0805 SMT RES

M2188-02 p4 Parts Reference List 2023-04-10

REF	YS #	Description
R281		W100 4K75 1% 0805 SMT RES
R282		W125 10K 5% 0805 SMT RES
R283		W125 47K 5% 0805 SMT RES
R284		W125 22K 5% 0805 SMT RES
R285		W125 10K 5% 0805 SMT RES
R286		W125 47K 5% 0805 SMT RES
R287		W125 10K 5% 0805 SMT RES
R288		W125 47K 5% 0805 SMT RES
R289		W125 47K 5% 0805 SMT RES
R290		W125 8K25 1% 0805 SMT RES
R291		W100 4K75 1% 0805 SMT RES
R292		W125 4M7 5% 0805 SMT RES
R293		W100 4K75 1% 0805 SMT RES
R294		W100 182K 1% 0805 SMT RES
R295		W100 182K 1% 0805 SMT RES
R296		W100 150R 5% 0805 SMT RES
R297		W125 4M7 5% 0805 SMT RES
S1	3522	DPDT MINI PC VERT SNP ALT
S2	3440	4PDT MINI VERT ALT SWITCH
SNL1	8370	1 MIL POLYIMIDE LABEL, 1" X .380"
U1		TL072 DUAL OPAMP SMT SO-8
U1A		33078 DUAL OPAMP SMT SO-8
U1B		33078 DUAL OPAMP SMT SO-8
U1C		33078 DUAL OPAMP SMT SO-8
U1D		33078 DUAL OPAMP SMT SO-8
U1E		33078 DUAL OPAMP SMT SO-8
U1F		33078 DUAL OPAMP SMT SO-8
U2		TL072 DUAL OPAMP SMT SO-8
U2A		TL072 DUAL OPAMP SMT SO-8
U2B		TL072 DUAL OPAMP SMT SO-8
U2C		TL072 DUAL OPAMP SMT SO-8
U2D	7669	TL072 DUAL OPAMP SMT SO-8
U2E	7669	TL072 DUAL OPAMP SMT SO-8
U2F	7669	TL072 DUAL OPAMP SMT SO-8
U3A	7669	TL072 DUAL OPAMP SMT SO-8
U3B	7669	TL072 DUAL OPAMP SMT SO-8
U3C	7669	TL072 DUAL OPAMP SMT SO-8
U3D	7669	TL072 DUAL OPAMP SMT SO-8
U3E	7669	TL072 DUAL OPAMP SMT SO-8
U3F	7669	TL072 DUAL OPAMP SMT SO-8
U4	7912	FV-1 SPIN SEMI REVERB SMT IC
U4A	7828	LM13700M XCONDUCTANC AMP SMT IC
U4C	7828	LM13700M XCONDUCTANC AMP SMT IC
U4E	7828	LM13700M XCONDUCTANC AMP SMT IC
U5	7934-PROG	24LC32A SER EEPROM MIX2-U3 YS DFX
U6	8249	TL074 QUAD OPAMP SMT SO14
U7	7668	MC33079D QUAD OPAMP SMT SO14
U8	8013	NC7SB3157 IC SPDT MUX SMT SC70-6
U9	8249	TL074 QUAD OPAMP SMT SO14
U10	8249	TL074 QUAD OPAMP SMT SO14
U11	7935-PROG	24LC32A SER EEPROM MIX2-U4 YS DFX
U12	7818	LM1117 REGULATOR 3V3 SMT SOT223
U13	7934	24LC32A SER EEPROM DFX UNPROGRAMMED
U14	7934	24LC32A SER EEPROM DFX UNPROGRAMMED
U43E	7669	TL072 DUAL OPAMP SMT SO-8
U52	7669	TL072 DUAL OPAMP SMT SO-8
U55G	8249	TL074 QUAD OPAMP SMT SO14
U55H	8249	TL074 QUAD OPAMP SMT SO14
U57G	8249	TL074 QUAD OPAMP SMT SO14
U57H	8249	TL074 QUAD OPAMP SMT SO14
U58	7669	TL072 DUAL OPAMP SMT SO-8
W2	2329	12 CIR XH-HEADER 0.098IN
W3	3966	GRN 16AWG PREFUSED WIRE
X7	7913	32KHZ CRYSTAL 4-PIN FSRLF SMT

M2388-01 P1 Parts Reference List 2024-04-18

REF	YS #	Description
A1-ASS	M2388-5	M1610-2/M810-2 MIXER BRD 30MM EQ
C1		100N 50V 5%CAP 0805 SMT X7R
C2A		4U7 25V 20%CAP 4X5.5 SMT ELC
C2B		4U7 25V 20%CAP 4X5.5 SMT ELC
C2C		4U7 25V 20%CAP 4X5.5 SMT ELC
C2D		4U7 25V 20%CAP 4X5.5 SMT ELC
C2E		4U7 25V 20%CAP 4X5.5 SMT ELC
C2F		4U7 25V 20%CAP 4X5.5 SMT ELC
C3A		4U7 25V 20%CAP 4X5.5 SMT ELC
C3B		4U7 25V 20%CAP 4X5.5 SMT ELC
C3C		4U7 25V 20%CAP 4X5.5 SMT ELC
C3D		4U7 25V 20%CAP 4X5.5 SMT ELC
C3E		4U7 25V 20%CAP 4X5.5 SMT ELC
C3F		4U7 25V 20%CAP 4X5.5 SMT ELC
C4		1U 50V 20%CAP 3.3MM SMT ELE
C5A		1N 50V 5%CAP 0805 SMT NPO
C5B		1N 50V 5%CAP 0805 SMT NPO
C5C		1N 50V 5%CAP 0805 SMT NPO
C5D		1N 50V 5%CAP 0805 SMT NPO
C5E		1N 50V 5%CAP 0805 SMT NPO
C5F		1N 50V 5%CAP 0805 SMT NPO
C6A		1N 50V 5%CAP 0805 SMT NPO
C6B		1N 50V 5%CAP 0805 SMT NPO
C6C		1N 50V 5%CAP 0805 SMT NPO
C6D		1N 50V 5%CAP 0805 SMT NPO
C6E		1N 50V 5%CAP 0805 SMT NPO
C6F		1N 50V 5%CAP 0805 SMT NPO
C7A		47P 100V 5%CAP 0805 SMT NPO
C7B		47P 100V 5%CAP 0805 SMT NPO
C7C		47P 100V 5%CAP 0805 SMT NPO
C7D		47P 100V 5%CAP 0805 SMT NPO
C7E		47P 100V 5%CAP 0805 SMT NPO
C7F		47P 100V 5%CAP 0805 SMT NPO
C8A		47P 100V 5%CAP 0805 SMT NPO
C8B		47P 100V 5%CAP 0805 SMT NPO
C8C		47P 100V 5%CAP 0805 SMT NPO
C8D		47P 100V 5%CAP 0805 SMT NPO
C8E		47P 100V 5%CAP 0805 SMT NPO
C8F		47P 100V 5%CAP 0805 SMT NPO
C9A		220P 100V 10%CAP 0805 SMT X7R
C9B		220P 100V 10%CAP 0805 SMT X7R
C9C		220P 100V 10%CAP 0805 SMT X7R
C9D		220P 100V 10%CAP 0805 SMT X7R
C9E		220P 100V 10%CAP 0805 SMT X7R
C9F		220P 100V 10%CAP 0805 SMT X7R
C10A		220P 100V 10%CAP 0805 SMT X7R
C10B		220P 100V 10%CAP 0805 SMT X7R
C10C		220P 100V 10%CAP 0805 SMT X7R
C10D		220P 100V 10%CAP 0805 SMT X7R
C10E		220P 100V 10%CAP 0805 SMT X7R
C10F		220P 100V 10%CAP 0805 SMT X7R
C12A		4U7 25V 20%CAP 4X5.5 SMT ELC
C12B		4U7 25V 20%CAP 4X5.5 SMT ELC
C12C		4U7 25V 20%CAP 4X5.5 SMT ELC
C12D		4U7 25V 20%CAP 4X5.5 SMT ELC
C12E		4U7 25V 20%CAP 4X5.5 SMT ELC
C12F		4U7 25V 20%CAP 4X5.5 SMT ELC
C13A		10U 16V 20%CAP 5X5.4 SMT NP
C13B		10U 16V 20%CAP 5X5.4 SMT NP
C13C		10U 16V 20%CAP 5X5.4 SMT NP
C13D		10U 16V 20%CAP 5X5.4 SMT NP
C13E		10U 16V 20%CAP 5X5.4 SMT NP
C13F		10U 16V 20%CAP 5X5.4 SMT NP
C14		1N 50V 5%CAP 0805 SMT NPO
C15A		47P 100V 5%CAP 0805 SMT NPO
C15B		47P 100V 5%CAP 0805 SMT NPO
C15C		47P 100V 5%CAP 0805 SMT NPO
C15D		47P 100V 5%CAP 0805 SMT NPO
C15E		47P 100V 5%CAP 0805 SMT NPO
C15F		47P 100V 5%CAP 0805 SMT NPO
C16A		10U 16V 20%CAP 5X5.4 SMT NP
C16B		10U 16V 20%CAP 5X5.4 SMT NP
C16C		10U 16V 20%CAP 5X5.4 SMT NP
C16D		10U 16V 20%CAP 5X5.4 SMT NP
C16E		10U 16V 20%CAP 5X5.4 SMT NP
C16F		10U 16V 20%CAP 5X5.4 SMT NP
C17A		22N 50V 10%CAP 0805 SMT X7R
C17B		22N 50V 10%CAP 0805 SMT X7R
C17C		22N 50V 10%CAP 0805 SMT X7R
C17D		22N 50V 10%CAP 0805 SMT X7R
C17E		22N 50V 10%CAP 0805 SMT X7R
C17F		22N 50V 10%CAP 0805 SMT X7R
C18A		18N 25V 10%CAP 0805 SMT X7R
C18B		18N 25V 10%CAP 0805 SMT X7R
C18C		18N 25V 10%CAP 0805 SMT X7R
C18D		18N 25V 10%CAP 0805 SMT X7R
C18E		18N 25V 10%CAP 0805 SMT X7R
C18F		18N 25V 10%CAP 0805 SMT X7R
C19A		22N 50V 10%CAP 0805 SMT X7R
C19B		22N 50V 10%CAP 0805 SMT X7R
C19C		22N 50V 10%CAP 0805 SMT X7R
C19D		22N 50V 10%CAP 0805 SMT X7R
C19E		22N 50V 10%CAP 0805 SMT X7R
C19F		22N 50V 10%CAP 0805 SMT X7R
C20A		1N5 50V 5%CAP 0805 SMT NPO
C20B		1N5 50V 5%CAP 0805 SMT NPO
C20C		1N5 50V 5%CAP 0805 SMT NPO
C20D		1N5 50V 5%CAP 0805 SMT NPO
C20E		1N5 50V 5%CAP 0805 SMT NPO
C20F		1N5 50V 5%CAP 0805 SMT NPO
C21A		10U 16V 20%CAP 5X5.4 SMT NP
C21B		10U 16V 20%CAP 5X5.4 SMT NP
C21C		10U 16V 20%CAP 5X5.4 SMT NP
C21D		10U 16V 20%CAP 5X5.4 SMT NP
C21E		10U 16V 20%CAP 5X5.4 SMT NP
C21F		10U 16V 20%CAP 5X5.4 SMT NP
C22		100N 50V 5%CAP 0805 SMT X7R
C23G		10U 63V 20%CAP 6.3MM SMT ELE
C23H		10U 63V 20%CAP 6.3MM SMT ELE
C24		100N 50V 5%CAP 0805 SMT X7R
C25G		10U 63V 20%CAP 6.3MM SMT ELE
C25H		10U 63V 20%CAP 6.3MM SMT ELE
C26G		1N 50V 5%CAP 0805 SMT NPO
C26H		1N 50V 5%CAP 0805 SMT NPO
C27G		1N 50V 5%CAP 0805 SMT NPO
C27H		1N 50V 5%CAP 0805 SMT NPO
C28G		1N 50V 5%CAP 0805 SMT NPO
C28H		1N 50V 5%CAP 0805 SMT NPO
C29G		1N 50V 5%CAP 0805 SMT NPO
C29H		1N 50V 5%CAP 0805 SMT NPO
C30G		10U 16V 20%CAP 5X5.4 SMT NP
C30H		10U 16V 20%CAP 5X5.4 SMT NP
C31G		10U 16V 20%CAP 5X5.4 SMT NP
C31H		10U 16V 20%CAP 5X5.4 SMT NP
C32G		10U 16V 20%CAP 5X5.4 SMT NP
C32H		10U 16V 20%CAP 5X5.4 SMT NP
C33G		100U 25V 20%CAP 8X5.4 SMT ELE
C33H		100U 25V 20%CAP 8X5.4 SMT ELE
C34G		10U 16V 20%CAP 5X5.4 SMT NP
C34H		10U 16V 20%CAP 5X5.4 SMT NP
C35G		100U 25V 20%CAP 8X5.4 SMT ELE
C35H		100U 25V 20%CAP 8X5.4 SMT ELE
C36G		10U 16V 20%CAP 5X5.4 SMT NP
C36H		10U 16V 20%CAP 5X5.4 SMT NP
C37G		10U 16V 20%CAP 5X5.4 SMT NP
C37H		10U 16V 20%CAP 5X5.4 SMT NP
C38G		22N 50V 10%CAP 0805 SMT X7R
C38H		22N 50V 10%CAP 0805 SMT X7R
C39G		1N5 50V 5%CAP 0805 SMT NPO
C39H		1N5 50V 5%CAP 0805 SMT NPO
C40G		22N 50V 10%CAP 0805 SMT X7R
C40H		22N 50V 10%CAP 0805 SMT X7R
C41G		1N5 50V 5%CAP 0805 SMT NPO
C41H		1N5 50V 5%CAP 0805 SMT NPO
C42		10U 16V 20%CAP 5X5.4 SMT NP
C43		10U 16V 20%CAP 5X5.4 SMT NP
C44		10U 16V 20%CAP 5X5.4 SMT NP
C45		10U 16V 20%CAP 5X5.4 SMT NP
C46		10U 16V 20%CAP 5X5.4 SMT NP
C47		10U 16V 20%CAP 5X5.4 SMT NP
C48		47P 100V 5%CAP 0805 SMT NPO
C49		47P 100V 5%CAP 0805 SMT NPO
C50		47P 100V 5%CAP 0805 SMT NPO
C51		47P 100V 5%CAP 0805 SMT NPO
C52		47P 100V 5%CAP 0805 SMT NPO
C53		47P 100V 5%CAP 0805 SMT NPO
C54		10U 16V 20%CAP 5X5.4 SMT NP
C55		10U 16V 20%CAP 5X5.4 SMT NP
C56		47P 100V 5%CAP 0805 SMT NPO
C57		47P 100V 5%CAP 0805 SMT NPO
C58		47P 100V 5%CAP 0805 SMT NPO
C59		1U 50V 20%CAP 3.3MM SMT ELE
C61L		470N 50V 5%CAP 1206 SMT X7R
C61R		470N 50V 5%CAP 1206 SMT X7R
C62L		33N 50V 5%CAP 0805 SMT X7R
C62R		33N 50V 5%CAP 0805 SMT X7R
C63L		330N 50V 5%CAP 1206 SMT X7R
C63R		330N 50V 5%CAP 1206 SMT X7R
C64L		220N 50V 5%CAP 1206 SMT X7R
C64R		220N 50V 5%CAP 1206 SMT X7R
C65L		150N 50V 5%CAP 0805 SMT X7R
C65R		150N 50V 5%CAP 0805 SMT X7R
C66L		68N 50V 5%CAP 0805 SMT X7R
C66R		68N 50V 5%CAP 0805 SMT X7R
C67L		47N 25V 5%CAP 0805 SMT X7R
C67R		47N 25V 5%CAP 0805 SMT X7R
C68L		33N 50V 5%CAP 0805 SMT X7R
C68R		33N 50V 5%CAP 0805 SMT X7R
C69		47P 100V 5%CAP 0805 SMT NPO
C70L		22N 50V 5%CAP 0805 SMT X7R
C70R		22N 50V 5%CAP 0805 SMT X7R
C71L		15N 50V 5%CAP 0805 SMT C0G
C71R		15N 50V 5%CAP 0805 SMT C0G
C72L		10N 50V 5%CAP 0805 SMT X7R
C72R		10N 50V 5%CAP 0805 SMT X7R
C73L		4N7 50V 5%CAP 0805 SMT X7R
C73R		4N7 50V 5%CAP 0805 SMT X7R
C74L		47N 25V 5%CAP 0805 SMT X7R
C74R		47N 25V 5%CAP 0805 SMT X7R
C75L		3N3 25V 5%CAP 0805 SMT NPO
C75R		3N3 25V 5%CAP 0805 SMT NPO
C76L		47P 100V 5%CAP 0805 SMT NPO
C76R		47P 100V 5%CAP 0805 SMT NPO
C77L		33N 50V 5%CAP 0805 SMT X7R
C77R		33N 50V 5%CAP 0805 SMT X7R
C78L		2N2 50V 5%CAP 0805 SMT X7R
C78R		2N2 50V 5%CAP 0805 SMT X7R
C79L		33N 50V 5%CAP 0805 SMT X7R
C79R		33N 50V 5%CAP 0805 SMT X7R
C80		1U 50V 20%CAP 3.3MM SMT ELE
C81L		22N 50V 5%CAP 0805 SMT X7R
C81R		22N 50V 5%CAP 0805 SMT X7R
C82L		1N5 50V 5%CAP 0805 SMT NPO
C82R		1N5 50V 5%CAP 0805 SMT NPO
C83		2N7 100V 10%CAP 0805 SMT X7R
C84L		15N 50V 5%CAP 0805 SMT C0G
C84R		15N 50V 5%CAP 0805 SMT C0G
C85G		100N 50V 5%CAP 0805 SMT X7R
C85H		100N 50V 5%CAP 0805 SMT X7R
C86G		100N 50V 5%CAP 0805 SMT X7R
C86H		100N 50V 5%CAP 0805 SMT X7R
C87		2N7 100V 10%CAP 0805 SMT X7R
C88		1U 50V 20%CAP 3.3MM SMT ELE
C89		100N 50V 5%CAP 0805 SMT X7R
C90		15P 50V 5%CAP 0603 SMT NPO
C91		100N 50V 5%CAP 0805 SMT X7R
C92		100N 50V 5%CAP 0805 SMT X7R
C93		4U7 25V 20%CAP 4X5.5 SMT ELC
C94		4U7 25V 20%CAP 4X5.5 SMT ELC
C95		100N 50V 5%CAP 0805 SMT X7R
C96		100N 50V 5%CAP 0805 SMT X7R
C97G		100N 50V 5%CAP 0805 SMT X7R
C97H		100N 50V 5%CAP 0805 SMT X7R
C98G		100N 50V 5%CAP 0805 SMT X7R
C98H		100N 50V 5%CAP 0805 SMT X7R
C99		100N 50V 5%CAP 0805 SMT X7R
C100		100N 50V 5%CAP 0805 SMT X7R
C101		47P 100V 5%CAP 0805 SMT NPO
C102		10U 16V 20%CAP 5X5.4 SMT NP
C103		100N 50V 5%CAP 0805 SMT X7R
C104E		33N 50V 5%CAP 0805 SMT X7R
C104F		33N 50V 5%CAP 0805 SMT X7R
C105		100U 25V 20%CAP 8X5.4 SMT ELE
C106		47P 100V 5%CAP 0805 SMT NPO
C107		47P 100V 5%CAP 0805 SMT NPO
C108		100U 25V 20%CAP 8X5.4 SMT ELE
C108A		10U 16V 20%CAP 5X5.4 SMT NP
C108B		10U 16V 20%CAP 5X5.4 SMT NP
C108C		10U 16V 20%CAP 5X5.4 SMT NP
C108D		10U 16V 20%CAP 5X5.4 SMT NP
C108E		10U 16V 20%CAP 5X5.4 SMT NP
C108F		10U 16V 20%CAP 5X5.4 SMT NP
C109E		4N7 50V 10%CAP 0805 SMT X7R
C109F		4N7 50V 10%CAP 0805 SMT X7R
C110		100N 50V 5%CAP 0805 SMT X7R
C111		100N 50V 5%CAP 0805 SMT X7R
C112		100N 50V 5%CAP 0805 SMT X7R
C113		100N 50V 5%CAP 0805 SMT X7R
C115		100N 50V 5%CAP 0805 SMT X7R
C116		3N3 25V 5%CAP 0805 SMT NPO
C117		3N3 25V 5%CAP 0805 SMT NPO
C118		100N 50V 5%CAP 0805 SMT X7R
C119		100N 50V 5%CAP 0805 SMT X7R
C121		100N 50V 5%CAP 0805 SMT X7R
C128		100N 50V 5%CAP 0805 SMT X7R
C129		100N 50V 5%CAP 0805 SMT X7R
C130		3N3 25V 5%CAP 0805 SMT NPO
C131		3N3 25V 5%CAP 0805 SMT NPO
C150A		100N 50V 5%CAP 0805 SMT X7R
C150B		100N 50V 5%CAP 0805 SMT X7R
C150C		100N 50V 5%CAP 0805 SMT X7R
C150D		100N 50V 5%CAP 0805 SMT X7R
C150E		100N 50V 5%CAP 0805 SMT X7R
C150F		100N 50V 5%CAP 0805 SMT X7R
C151A		100N 50V 5%CAP 0805 SMT X7R
C151B		100N 50V 5%CAP 0805 SMT X7R
C151C		100N 50V 5%CAP 0805 SMT X7R
C151D		100N 50V 5%CAP 0805 SMT X7R
C151E		100N 50V 5%CAP 0805 SMT X7R
C151F		100N 50V 5%CAP 0805 SMT X7R
C152A		100N 50V 5%CAP 0805 SMT X7R
C152B		100N 50V 5%CAP 0805 SMT X7R
C152C		100N 50V 5%CAP 0805 SMT X7R
C152D		100N 50V 5%CAP 0805 SMT X7R
C152E		100N 50V 5%CAP 0805 SMT X7R
C152F		100N 50V 5%CAP 0805 SMT X7R
C153A		100N 50V 5%CAP 0805 SMT X7R
C153B		100N 50V 5%CAP 0805 SMT X7R
C153C		100N 50V 5%CAP 0805 SMT X7R
C153D		100N 50V 5%CAP 0805 SMT X7R
C153E		100N 50V 5%CAP 0805 SMT X7R
C153F		100N 50V 5%CAP 0805 SMT X7R
C154A		2N2 50V 10%CAP 0805 SMT X7R
C154C		2N2 50V 10%CAP 0805 SMT X7R
C154E		2N2 50V 10%CAP 0805 SMT X7R
C154G		2N2 50V 10%CAP 0805 SMT X7R
C155A		10U 63V 20%CAP 6.3MM SMT ELE
C155C		10U 63V 20%CAP 6.3MM SMT ELE
C155E		10U 63V 20%CAP 6.3MM SMT ELE
C155G		10U 63V 20%CAP 6.3MM SMT ELE
C156		10U 63V 20%CAP 6.3MM SMT ELE
C157		220N 50V 10%CAP 1206 SMT X7R
D1		5237B 8V2 0W2 SOT-23 SMT ZEN
D2		CDSF4148 75V 0A15 1005 SMT
D2A		CDSF4148 75V 0A15 1005 SMT
D2B		CDSF4148 75V 0A15 1005 SMT
D2C		CDSF4148 75V 0A15 1005 SMT
D2D		CDSF4148 75V 0A15 1005 SMT
D2E		CDSF4148 75V 0A15 1005 SMT
D2F		CDSF4148 75V 0A15 1005 SMT
D3		CDSF4148 75V 0A15 1005 SMT
D3A		CDSF4148 75V 0A15 1005 SMT
D3B		CDSF4148 75V 0A15 1005 SMT
D3C		CDSF4148 75V 0A15 1005 SMT
D3D		CDSF4148 75V 0A15 1005 SMT
D3E		CDSF4148 75V 0A15 1005 SMT
D3F		CDSF4148 75V 0A15 1005 SMT
D4		CDSF4148 75V 0A15 1005 SMT
D4G		CDSF4148 75V 0A15 1005 SMT
D4H		CDSF4148 75V 0A15 1005 SMT
D5		CDSF4148 75V 0A15 1005 SMT
D5G		CDSF4148 75V 0A15 1005 SMT
D5H		CDSF4148 75V 0A15 1005 SMT
D8		5237B 8V2 0W2 SOT-23 SMT ZEN
D9		5237B 8V2 0W2 SOT-23 SMT ZEN
D10A		CDSF4148 75V 0A15 1005 SMT
D10B		CDSF4148 75V 0A15 1005 SMT
D10C		CDSF4148 75V 0A15 1005 SMT
D10D		CDSF4148 75V 0A15 1005 SMT
D10E		CDSF4148 75V 0A15 1005 SMT
D10F		CDSF4148 75V 0A15 1005 SMT
D12A		CDSF4148 75V 0A15 1005 SMT
D12B		CDSF4148 75V 0A15 1005 SMT
D12C		CDSF4148 75V 0A15 1005 SMT
D12D		CDSF4148 75V 0A15 1005 SMT
D12E		CDSF4148 75V 0A15 1005 SMT
D12F		CDSF4148 75V 0A15 1005 SMT
D17		CDSF4148 75V 0A15 1005 SMT
D18		CDSF4148 75V 0A15 1005 SMT
D19		CDSF4148 75V 0A15 1005 SMT
D20		CDSF4148 75V 0A15 1005 SMT
D28		CDSF4148 75V 0A15 1005 SMT
D29		CDSF4148 75V 0A15 1005 SMT
D30		CDSF4148 75V 0A15 1005 SMT
D31		CDSF4148 75V 0A15 1005 SMT
D32		CDSF4148 75V 0A15 1005 SMT
D33		CDSF4148 75V 0A15 1005 SMT
D34		CDSF4148 75V 0A15 1005 SMT
D35		CDSF4148 75V 0A15 1005 SMT
J1A	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J1B	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J1C	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J1D	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J1E	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J1F	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J2A	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J2B	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J2C	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J2D	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J2E	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J2F	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J4G	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J4H	4010	XLR FEML PCB MT VERT 24MM AA-SERIES
J5G	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J5H	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J6G	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J6H	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J7	3466	RCA DUAL PCB MT VERT GOLD 24MM
J9	3466	RCA DUAL PCB MT VERT GOLD 24MM
J10	4182	1/4INJCK PCB MT VT ST RTS SW NJ6
J11	4182	1/4INJCK PCB MT VT ST RTS SW NJ6
J14	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J15	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J16	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J17	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J18	3929	1/4" JCK SNP PC MT VERT STER RT SWT
J19	3929	1/4" JCK SNP PC MT VERT STER RT SWT
LD1		RED LED 1V5 20MA 1206 SMT
LD1A		GRN LED 2V8 20MA 1206 SMT
LD1B		GRN LED 2V8 20MA 1206 SMT
LD1C		GRN LED 2V8 20MA 1206 SMT
LD1D		GRN LED 2V8 20MA 1206 SMT
LD1E		GRN LED 2V8 20MA 1206 SMT
LD1F		GRN LED 2V8 20MA 1206 SMT
LD1FX		RED LED 1V5 20MA 1206 SMT
LD2A		RED LED 1V5 20MA 1206 SMT
LD2B		RED LED 1V5 20MA 1206 SMT
LD2C		RED LED 1V5 20MA 1206 SMT
LD2D		RED LED 1V5 20MA 1206 SMT
LD2E		RED LED 1V5 20MA 1206 SMT
LD2F		RED LED 1V5 20MA 1206 SMT
LD3G		RED LED 1V5 20MA 1206 SMT
LD3H		RED LED 1V5 20MA 1206 SMT
LD15		RED LED 1V5 20MA 1206 SMT
LD16		RED LED 1V5 20MA 1206 SMT
LD17		RED LED 1V5 20MA 1206 SMT
LD18		GRN LED 2V8 20MA 1206 SMT
P1A	4443	100K 5C R/A 9MM P32
P1B	4443	100K 5C R/A 9MM P32
P1C	4443	100K 5C R/A 9MM P32
P1D	4443	100K 5C R/A 9MM P32
P1E	4443	100K 5C R/A 9MM P32
P1F	4443	100K 5C R/A 9MM P32
P2A	4435	50K B LIN 9MM DETENT P32
P2B	4435	50K B LIN 9MM DETENT P32
P2C	4435	50K B LIN 9MM DETENT P32
P2D	4435	50K B LIN 9MM DETENT P32
P2E	4435	50K B LIN 9MM DETENT P32
P2F	4435	50K B LIN 9MM DETENT P32
P3A	4434	10K 1B LIN 9MM DETENT P32

M2388-01 P2 Parts Reference List 2024-04-18

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
P3B	4434	10K 1B LIN 9MM DETENT P32	Q1A		MMBT3906LT1 PNP SOT-23 SMT T&R	R8B		W125 681R 1% 0805 SMT RES	R26E		W100 27K4 1% 0805 SMT RES	R40F		W125 470R 5% 0805 SMT RES
P3C	4434	10K 1B LIN 9MM DETENT P32	Q1B		MMBT3906LT1 PNP SOT-23 SMT T&R	R8C		W125 681R 1% 0805 SMT RES	R26F		W100 27K4 1% 0805 SMT RES	R41A		W100 4K75 1% 0805 SMT RES
P3D	4434	10K 1B LIN 9MM DETENT P32	Q1C		MMBT3906LT1 PNP SOT-23 SMT T&R	R8D		W125 681R 1% 0805 SMT RES	R27A		W100 220K 5% 0603 SMT RES	R41B		W100 4K75 1% 0805 SMT RES
P3E	4434	10K 1B LIN 9MM DETENT P32	Q1D		MMBT3906LT1 PNP SOT-23 SMT T&R	R8E		W125 681R 1% 0805 SMT RES	R27B		W100 220K 5% 0603 SMT RES	R41C		W100 4K75 1% 0805 SMT RES
P3F	4434	10K 1B LIN 9MM DETENT P32	Q1E		MMBT3906LT1 PNP SOT-23 SMT T&R	R8F		W125 681R 1% 0805 SMT RES	R27C		W100 220K 5% 0603 SMT RES	R41D		W100 4K75 1% 0805 SMT RES
P4A	4434	10K 1B LIN 9MM DETENT P32	Q1F		MMBT3906LT1 PNP SOT-23 SMT T&R	R9A		W125 681R 1% 0805 SMT RES	R27D		W100 220K 5% 0603 SMT RES	R41E		W100 4K75 1% 0805 SMT RES
P4B	4434	10K 1B LIN 9MM DETENT P32	Q1L		MMBT3906LT1 PNP SOT-23 SMT T&R	R9B		W125 681R 1% 0805 SMT RES	R27E		W100 220K 5% 0603 SMT RES	R41F		W100 4K75 1% 0805 SMT RES
P4C	4434	10K 1B LIN 9MM DETENT P32	Q1R		MMBT3906LT1 PNP SOT-23 SMT T&R	R9C		W125 681R 1% 0805 SMT RES	R27F		W100 220K 5% 0603 SMT RES	R42A		W125 1K21 1% 0805 SMT RES
P4D	4434	10K 1B LIN 9MM DETENT P32	Q2A		MMBT3906LT1 PNP SOT-23 SMT T&R	R9D		W125 681R 1% 0805 SMT RES	R28A		W125 10K 5% 0805 SMT RES	R42B		W125 1K21 1% 0805 SMT RES
P4E	4434	10K 1B LIN 9MM DETENT P32	Q2B		MMBT3906LT1 PNP SOT-23 SMT T&R	R9E		W125 681R 1% 0805 SMT RES	R28B		W125 10K 5% 0805 SMT RES	R42C		W125 1K21 1% 0805 SMT RES
P4F	4434	10K 1B LIN 9MM DETENT P32	Q2C		MMBT3906LT1 PNP SOT-23 SMT T&R	R9F		W125 681R 1% 0805 SMT RES	R28C		W125 10K 5% 0805 SMT RES	R42D		W125 1K21 1% 0805 SMT RES
P5A	4432	10K B LIN 9MM P32	Q2D		MMBT3906LT1 PNP SOT-23 SMT T&R	R10A		W100 10K0 1% 0805 SMT RES	R28D		W125 10K 5% 0805 SMT RES	R42E		W125 1K21 1% 0805 SMT RES
P5B	4432	10K B LIN 9MM P32	Q2E		MMBT3906LT1 PNP SOT-23 SMT T&R	R10B		W100 10K0 1% 0805 SMT RES	R28E		W125 10K 5% 0805 SMT RES	R42F		W125 1K21 1% 0805 SMT RES
P5C	4432	10K B LIN 9MM P32	Q2F		MMBT3906LT1 PNP SOT-23 SMT T&R	R10C		W100 10K0 1% 0805 SMT RES	R28F		W125 10K 5% 0805 SMT RES	R43A		W100 18K2 1% 0805 SMT RES
P5D	4432	10K B LIN 9MM P32	Q2L		MMBT3906LT1 PNP SOT-23 SMT T&R	R10D		W100 10K0 1% 0805 SMT RES	R29A		W125 10K 5% 0805 SMT RES	R43B		W100 18K2 1% 0805 SMT RES
P5E	4432	10K B LIN 9MM P32	Q2R		MMBT3906LT1 PNP SOT-23 SMT T&R	R10E		W100 10K0 1% 0805 SMT RES	R29B		W125 10K 5% 0805 SMT RES	R43C		W100 18K2 1% 0805 SMT RES
P5F	4432	10K B LIN 9MM P32	Q3G		MMBT3906LT1 PNP SOT-23 SMT T&R	R10F		W100 10K0 1% 0805 SMT RES	R29C		W125 10K 5% 0805 SMT RES	R43D		W100 18K2 1% 0805 SMT RES
P6A	4433	50K B LIN 9MM P32	Q3H		MMBT3906LT1 PNP SOT-23 SMT T&R	R11A		W100 10K0 1% 0805 SMT RES	R29D		W125 10K 5% 0805 SMT RES	R43E		W100 18K2 1% 0805 SMT RES
P6B	4433	50K B LIN 9MM P32	Q4L		MMBT3906LT1 PNP SOT-23 SMT T&R	R11B		W100 10K0 1% 0805 SMT RES	R29E		W125 10K 5% 0805 SMT RES	R43F		W100 18K2 1% 0805 SMT RES
P6C	4433	50K B LIN 9MM P32	Q4R		MMBT3906LT1 PNP SOT-23 SMT T&R	R11C		W100 10K0 1% 0805 SMT RES	R29F		W125 10K 5% 0805 SMT RES	R44A		W125 1K21 1% 0805 SMT RES
P6D	4433	50K B LIN 9MM P32	Q6L		MMBT3906LT1 PNP SOT-23 SMT T&R	R11D		W100 10K0 1% 0805 SMT RES	R30A		W125 47K 5% 0805 SMT RES	R44B		W125 1K21 1% 0805 SMT RES
P6E	4433	50K B LIN 9MM P32	Q6R		MMBT3906LT1 PNP SOT-23 SMT T&R	R11E		W100 10K0 1% 0805 SMT RES	R30B		W125 47K 5% 0805 SMT RES	R44C		W125 1K21 1% 0805 SMT RES
P6F	4433	50K B LIN 9MM P32	Q7		MMBT3904 NPN SOT-23 SMT	R11F		W100 10K0 1% 0805 SMT RES	R30C		W125 47K 5% 0805 SMT RES	R44D		W125 1K21 1% 0805 SMT RES
P7A	4433	50K B LIN 9MM P32	Q8		MMBT3904 NPN SOT-23 SMT	R12A		W125 47R 5% 0805 SMT RES	R30D		W125 47K 5% 0805 SMT RES	R44E		W125 1K21 1% 0805 SMT RES
P7B	4433	50K B LIN 9MM P32	Q9		MMBT3904 NPN SOT-23 SMT	R12B		W125 47R 5% 0805 SMT RES	R30E		W125 47K 5% 0805 SMT RES	R44F		W125 1K21 1% 0805 SMT RES
P7C	4433	50K B LIN 9MM P32	Q9L		MMBT3906LT1 PNP SOT-23 SMT T&R	R12C		W125 47R 5% 0805 SMT RES	R30F		W125 47K 5% 0805 SMT RES	R45A		W125 82K5 1% 0805 SMT RES
P7D	4433	50K B LIN 9MM P32	Q9R		MMBT3906LT1 PNP SOT-23 SMT T&R	R12D		W125 47R 5% 0805 SMT RES	R31A		W125 62K 5% 0805 SMT RES	R45B		W125 82K5 1% 0805 SMT RES
P7E	4433	50K B LIN 9MM P32	Q10L		MMBT3906LT1 PNP SOT-23 SMT T&R	R12E		W125 47R 5% 0805 SMT RES	R31B		W125 62K 5% 0805 SMT RES	R45C		W125 82K5 1% 0805 SMT RES
P7F	4433	50K B LIN 9MM P32	Q10R		MMBT3906LT1 PNP SOT-23 SMT T&R	R12F		W125 47R 5% 0805 SMT RES	R31C		W125 62K 5% 0805 SMT RES	R45D		W125 82K5 1% 0805 SMT RES
P8A	4434	10K 1B LIN 9MM DETENT P32	Q11L		MMBT3906LT1 PNP SOT-23 SMT T&R	R13A		W125 140K 1% 0805 SMT RES	R31D		W125 62K 5% 0805 SMT RES	R45E		W125 82K5 1% 0805 SMT RES
P8B	4434	10K 1B LIN 9MM DETENT P32	Q11R		MMBT3906LT1 PNP SOT-23 SMT T&R	R13B		W125 140K 1% 0805 SMT RES	R31E		W125 62K 5% 0805 SMT RES	R45F		W125 82K5 1% 0805 SMT RES
P8C	4434	10K 1B LIN 9MM DETENT P32	Q12		MMBTA14 NPN DARL SOT-23 SMT	R13C		W125 140K 1% 0805 SMT RES	R31F		W125 62K 5% 0805 SMT RES	R46A		W125 470R 5% 0805 SMT RES
P8D	4434	10K 1B LIN 9MM DETENT P32	Q12L		MMBT3906LT1 PNP SOT-23 SMT T&R	R13D		W125 140K 1% 0805 SMT RES	R32A		W125 22M0 5% 0805 SMT RES	R46B		W125 470R 5% 0805 SMT RES
P8E	4434	10K 1B LIN 9MM DETENT P32	Q12R		MMBT3906LT1 PNP SOT-23 SMT T&R	R13E		W125 140K 1% 0805 SMT RES	R32B		W125 22M0 5% 0805 SMT RES	R46C		W125 470R 5% 0805 SMT RES
P8F	4434	10K 1B LIN 9MM DETENT P32	Q13		MMBT3904 NPN SOT-23 SMT	R13F		W125 140K 1% 0805 SMT RES	R32C		W125 22M0 5% 0805 SMT RES	R46D		W125 470R 5% 0805 SMT RES
P9G	4443	100K 5C R/A 9MM P32	Q13L		MMBT3906LT1 PNP SOT-23 SMT T&R	R14A		W125 140K 1% 0805 SMT RES	R32D		W125 22M0 5% 0805 SMT RES	R46E		W125 470R 5% 0805 SMT RES
P9H	4443	100K 5C R/A 9MM P32	Q13R		MMBT3906LT1 PNP SOT-23 SMT T&R	R14B		W125 140K 1% 0805 SMT RES	R32E		W125 22M0 5% 0805 SMT RES	R46F		W125 470R 5% 0805 SMT RES
P10G	4431	10K 5C R/A 12MM STEREO P34	Q14		MMBT3904 NPN SOT-23 SMT	R14C		W125 140K 1% 0805 SMT RES	R32F		W125 22M0 5% 0805 SMT RES	R47A		W100 4K75 1% 0805 SMT RES
P10H	4431	10K 5C R/A 12MM STEREO P34	R1A		W100 4K99 1% 0805 SMT RES	R14D		W125 140K 1% 0805 SMT RES	R33		W100 10K0 1% 0805 SMT RES	R47B		W100 4K75 1% 0805 SMT RES
P11FX	6578	ROT BIN 18MM 4BIT ENCODER P23	R1B		W100 4K99 1% 0805 SMT RES	R14E		W125 140K 1% 0805 SMT RES	R34A		W125 470R 5% 0805 SMT RES	R47C		W100 4K75 1% 0805 SMT RES
P12FX	4434	10K 1B LIN 9MM DETENT P32	R1C		W100 4K99 1% 0805 SMT RES	R14F		W125 140K 1% 0805 SMT RES	R34B		W125 470R 5% 0805 SMT RES	R47D		W100 4K75 1% 0805 SMT RES
P12G	4439	50K B LIN 12MM STEREO DETENTP34	R1D		W100 4K99 1% 0805 SMT RES	R15A		W100 10K0 1% 0805 SMT RES	R34C		W125 470R 5% 0805 SMT RES	R47E		W100 4K75 1% 0805 SMT RES
P12H	4439	50K B LIN 12MM STEREO DETENTP34	R1E		W100 4K99 1% 0805 SMT RES	R15B		W100 10K0 1% 0805 SMT RES	R34D		W125 470R 5% 0805 SMT RES	R47F		W100 4K75 1% 0805 SMT RES
P13G	4438	10K B LIN 12MM STEREO DETENTP34	R1F		W100 4K99 1% 0805 SMT RES	R15C		W100 10K0 1% 0805 SMT RES	R34E		W125 470R 5% 0805 SMT RES	R48A		W100 10M 1% 0805 SMT RES
P13H	4438	10K B LIN 12MM STEREO DETENTP34	R2A		W100 4K99 1% 0805 SMT RES	R15D		W100 10K0 1% 0805 SMT RES	R34F		W125 470R 5% 0805 SMT RES	R48B		W100 10M 1% 0805 SMT RES
P14G	4438	10K B LIN 12MM STEREO DETENTP34	R2B		W100 4K99 1% 0805 SMT RES	R15E		W100 10K0 1% 0805 SMT RES	R35A		W100 15K0 1% 0805 SMT RES	R48C		W100 10M 1% 0805 SMT RES
P14H	4438	10K B LIN 12MM STEREO DETENTP34	R2C		W100 4K99 1% 0805 SMT RES	R15F		W100 10K0 1% 0805 SMT RES	R35B		W100 15K0 1% 0805 SMT RES	R48D		W100 10M 1% 0805 SMT RES
P15G	4433	50K B LIN 9MM P32	R2D		W100 4K99 1% 0805 SMT RES	R16A		W100 10K0 1% 0805 SMT RES	R35C		W100 15K0 1% 0805 SMT RES	R48E		W100 10M 1% 0805 SMT RES
P15H	4433	50K B LIN 9MM P32	R2E		W100 4K99 1% 0805 SMT RES	R16B		W100 10K0 1% 0805 SMT RES	R35D		W100 15K0 1% 0805 SMT RES	R48F		W100 10M 1% 0805 SMT RES
P16G	4434	10K 1B LIN 9MM DETENT P32	R2F		W100 4K99 1% 0805 SMT RES	R16C		W100 10K0 1% 0805 SMT RES	R35E		W100 15K0 1% 0805 SMT RES	R49A		W125 10K 5% 0805 SMT RES
P16H	4434	10K 1B LIN 9MM DETENT P32	R3A		W100 4K99 1% 0805 SMT RES	R16D		W100 10K0 1% 0805 SMT RES	R35F		W100 15K0 1% 0805 SMT RES	R49B		W125 10K 5% 0805 SMT RES
P17	4447	20K 15A AUD 12MM STEREO P34	R3C		W100 4K99 1% 0805 SMT RES	R16E		W100 10K0 1% 0805 SMT RES	R36A		W100 100R 1% 0603 SMT RES	R49C		W125 10K 5% 0805 SMT RES
P18	4426	20K 4B LIN 9MM P32	R3E		W100 4K99 1% 0805 SMT RES	R16F		W100 10K0 1% 0805 SMT RES	R36B		W100 100R 1% 0603 SMT RES	R49D		W125 10K 5% 0805 SMT RES
P19	4433	50K B LIN 9MM P32	R3G		W100 4K99 1% 0805 SMT RES	R17A		W100 4K99 1% 0805 SMT RES	R36C		W100 100R 1% 0603 SMT RES	R49E		W125 10K 5% 0805 SMT RES
P20	4437	50K B LIN 12MM STEREO P34	R4A		W100 6K98 1% 0805 SMT RES	R17B		W100 4K99 1% 0805 SMT RES	R36D		W100 100R 1% 0603 SMT RES	R49F		W125 10K 5% 0805 SMT RES
P21	4441	50K 4B LIN 12MM STEREO P34	R4B		W100 6K98 1% 0805 SMT RES	R17C		W100 4K99 1% 0805 SMT RES	R36E		W100 100R 1% 0603 SMT RES	R50A		W125 1K5 5% 0805 SMT RES
P23	4437	50K B LIN 12MM STEREO P34	R4C		W100 6K98 1% 0805 SMT RES	R17D		W100 4K99 1% 0805 SMT RES	R36F		W100 100R 1% 0603 SMT RES	R50B		W125 1K5 5% 0805 SMT RES
P25L	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R4D		W100 6K98 1% 0805 SMT RES	R17E		W100 4K99 1% 0805 SMT RES	R37A		W100 100R 1% 0603 SMT RES	R50C		W125 1K5 5% 0805 SMT RES
P25R	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R4E		W100 6K98 1% 0805 SMT RES	R17F		W100 4K99 1% 0805 SMT RES	R37B		W100 100R 1% 0603 SMT RES	R50D		W125 1K5 5% 0805 SMT RES
P26L	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R4F		W100 6K98 1% 0805 SMT RES	R18A		W100 4K99 1% 0805 SMT RES	R37C		W100 100R 1% 0603 SMT RES	R50E		W125 1K5 5% 0805 SMT RES
P26R	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R5A		W100 6K98 1% 0805 SMT RES	R18B		W100 4K99 1% 0805 SMT RES	R37D		W100 100R 1% 0603 SMT RES	R50F		W125 1K5 5% 0805 SMT RES
P27L	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R5B		W100 6K98 1% 0805 SMT RES	R18C		W100 4K99 1% 0805 SMT RES	R37E		W100 100R 1% 0603 SMT RES	R51A		W125 10K 5% 0805 SMT RES
P27R	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R5C		W100 6K98 1% 0805 SMT RES	R18D		W100 4K99 1% 0805 SMT RES	R37F		W100 100R 1% 0603 SMT RES	R51B		W125 10K 5% 0805 SMT RES
P28L	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R5D		W100 6K98 1% 0805 SMT RES	R18E		W100 4K99 1% 0805 SMT RES	R38A		W100 15K0 1% 0805 SMT RES	R51C		W125 10K 5% 0805 SMT RES
P28R	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R5E		W100 6K98 1% 0805 SMT RES	R18F		W100 4K99 1% 0805 SMT RES	R38B		W100 15K0 1% 0805 SMT RES	R51D		W125 10K 5% 0805 SMT RES
P29L	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R5F		W100 6K98 1% 0805 SMT RES	R19		W100 1K0 1% 0805 SMT RES	R38C		W100 15K0 1% 0805 SMT RES	R51E		W125 10K 5% 0805 SMT RES
P29R	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R6A		W100 100R 1% 0805 SMT RES	R21		W100 1K0 1% 0805 SMT RES	R38D		W100 15K0 1% 0805 SMT RES	R51F		W125 10K 5% 0805 SMT RES
P30L	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R6B		W100 100R 1% 0805 SMT RES	R22		W100 10K0 1% 0805 SMT RES	R38E		W100 15K0 1% 0805 SMT RES	R52A		W125 10K 5% 0805 SMT RES
P30R	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R6C		W100 100R 1% 0805 SMT RES	R23A		W125 10K 5% 0805 SMT RES	R38F		W100 15K0 1% 0805 SMT RES	R52B		W125 10K 5% 0805 SMT RES
P31L	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R6D		W100 100R 1% 0805 SMT RES	R23B		W125 10K 5% 0805 SMT RES	R39A		W125 33K 5% 0805 SMT RES	R52C		W125 10K 5% 0805 SMT RES
P31R	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R6E		W100 100R 1% 0805 SMT RES	R23C		W125 10K 5% 0805 SMT RES	R39B		W125 33K 5% 0805 SMT RES	R52D		W125 10K 5% 0805 SMT RES
P32L	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R6F		W100 100R 1% 0805 SMT RES	R23D		W125 10K 5% 0805 SMT RES	R39C		W125 33K 5% 0805 SMT RES	R52E		W125 10K 5% 0805 SMT RES
P32R	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R7A		W100 100R 1% 0805 SMT RES	R23E		W125 10K 5% 0805 SMT RES	R39D		W125 33K 5% 0805 SMT RES	R52F		W125 10K 5% 0805 SMT RES
P33L	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R7B		W100 100R 1% 0805 SMT RES	R23F		W125 10K 5% 0805 SMT RES	R39E		W125 33K 5% 0805 SMT RES	R53A		W125 1K5 5% 0805 SMT RES
P33R	POT007	20K 1B 30MM DT SLIDER FOR VGM14	R7C		W100 100R 1% 0805 SMT RES	R24		W100 10K0 1% 0805 SMT RES	R39F		W125 33K 5% 0805 SMT RES	R53B		W125 1K5 5% 0805 SMT RES
P35	4435	50K B LIN 9MM DETENT P32	R7D		W100 100R 1% 0805 SMT RES	R25		W100 10K0 1% 0805 SMT RES	R40A		W125 470R 5% 0805 SMT RES	R53C		W125 1K5 5% 0805 SMT RES
P36	4435	50K B LIN 9MM DETENT P32	R7E		W100 100R 1% 0805 SMT RES	R26A		W100 27K4 1% 0805 SMT RES	R40B		W125 470R 5% 0805 SMT RES	R53D		W125 1K5 5% 0805 SMT RES
P37	4435	50K B LIN 9MM DETENT P32	R7F		W100 100R 1% 0805 SMT RES	R26B		W100 27K4 1% 0805 SMT RES	R40C		W125 470R 5% 0805 SMT RES	R53E		W125 1K5 5% 0805 SMT RES
P38	4435	50K B LIN 9MM DETENT P32	R7FX		W100 100R 1% 0603 SMT RES	R26C		W100 27K4 1% 0805 SMT RES	R40D		W125 470R 5% 0805 SMT RES	R53F		W125 1K5 5% 0805 SMT RES
PCB1	M2388B	2_OZ 2SD 181.14 SQIN 01PR M1610/810	R8A		W125 681R 1% 0805 SMT RES	R26D		W100 27K4 1% 0805 SMT RES	R40E		W125 470R 5% 0805 SMT RES	R54A		W125 1K5 5% 0805 SMT RES

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REF	YS #	Description
R54B		W125 1K5 5% 0805 SMT RES
R54C		W125 1K5 5% 0805 SMT RES
R54D		W125 1K5 5% 0805 SMT RES
R54E		W125 1K5 5% 0805 SMT RES
R54F		W125 1K5 5% 0805 SMT RES
R55A		W100 4K75 1% 0805 SMT RES
R55B		W100 4K75 1% 0805 SMT RES
R55C		W100 4K75 1% 0805 SMT RES
R55D		W100 4K75 1% 0805 SMT RES
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R56E		W125 10K 5% 0805 SMT RES
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R63H		W100 3K74 1% 0805 SMT RES
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R86H		W125 470R 5% 0805 SMT RES
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R111H		W125 10K 5% 0805 SMT RES
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R112H		W125 10K 5% 0805 SMT RES
R113		W100 1K0 1% 0805 SMT RES
R114		W100 20K5 1% 0805 SMT RES
R115		W100 20K5 1% 0805 SMT RES
R116		W250 100R 5% 1206 SMT RES
R117		W100 100R 1% 0805 SMT RES
R118		W125 10K 5% 0805 SMT RES
R119		W250 619R0 1% 1206 SMT RES
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R218E		W100 4K99 1% 0805 SMT RES
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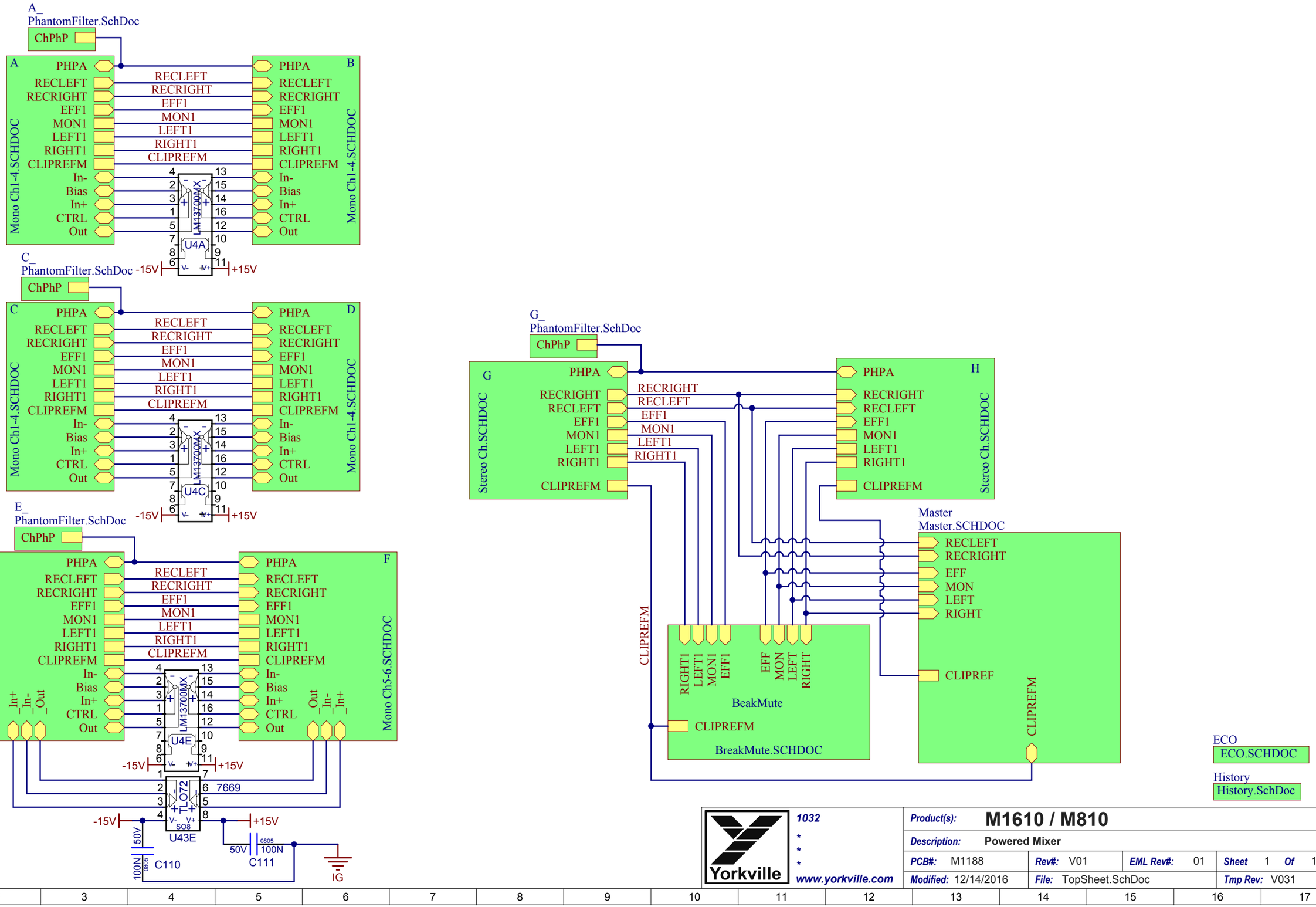
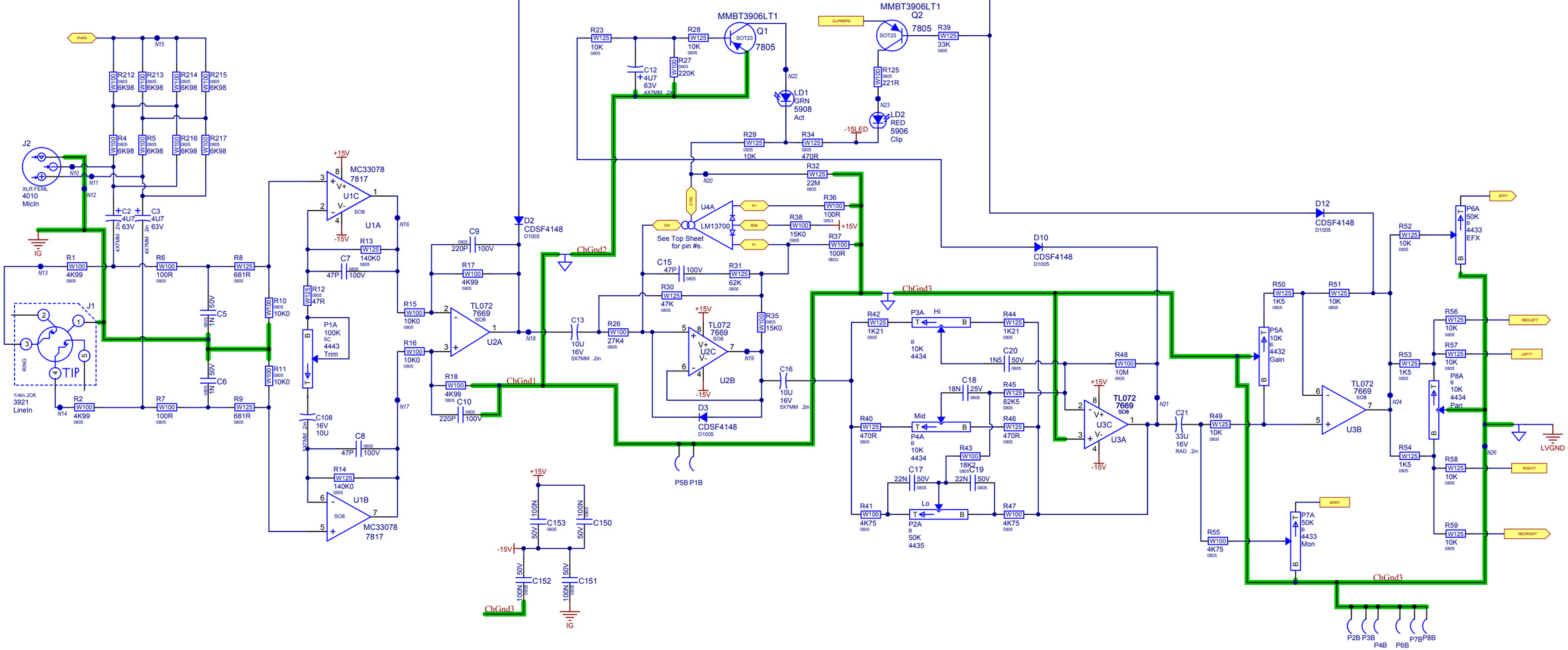
R219A		W100 4K99 1% 0805 SMT RES
R219C		W100 4K99 1% 0805 SMT RES
R219E		W100 4K99 1% 0805 SMT RES
R219G		W100 6K98 1% 0805 SMT RES
R219G		W100 4K99 1% 0805 SMT RES
R219H		W100 6K98 1% 0805 SMT RES
R220A		W100 4K99 1% 0805 SMT RES
R220C		W100 4K99 1% 0805 SMT RES
R220E		W100 4K99 1% 0805 SMT RES
R220G		W100 6K98 1% 0805 SMT RES
R220G		W100 4K99 1% 0805 SMT RES
R220H		W100 6K98 1% 0805 SMT RES
R221A		W100 4K99 1% 0805 SMT RES
R221C		W100 4K99 1% 0805 SMT RES
R221E		W100 4K99 1% 0805 SMT RES
R221G		W100 6K98 1% 0805 SMT RES
R221G		W100 4K99 1% 0805 SMT RES
R221H		W100 6K98 1% 0805 SMT RES
R222G		W100 6K98 1% 0805 SMT RES
R222H		W100 6K98 1% 0805 SMT RES
R223G		W100 6K98 1% 0805 SMT RES
R223H		W100 6K98 1% 0805 SMT RES
R228E		W125 47K5 1% 0805 SMT RES
R228F		W125 47K5 1% 0805 SMT RES
R232		W100 20K0 1% 0805 SMT RES
R234E		W100 4K75 1% 0805 SMT RES
R234F		W100 4K75 1% 0805 SMT RES
R235		W250 619R0 1% 1206 SMT RES
R236		W250 619R0 1% 1206 SMT RES
R237		W250 619R0 1% 1206 SMT RES
R238		W250 619R0 1% 1206 SMT RES
R239		W250 619R0 1% 1206 SMT RES
R240		W100 10K0 1% 0805 SMT RES
R241		W100 10K0 1% 0805 SMT RES
R242		W100 10K0 1% 0805 SMT RES
R243		W100 10K0 1% 0805 SMT RES
R244		W100 10K0 1% 0805 SMT RES
R245		W100 10K0 1% 0805 SMT RES
R246		W250 619R0 1% 1206 SMT RES
R247		W100 10K0 1% 0805 SMT RES
R248		W100 10K0 1% 0805 SMT RES
R249		W250 619R0 1% 1206 SMT RES
R250		W100 10K0 1% 0805 SMT RES
R251		W100 10K0 1% 0805 SMT RES
R252		W250 619R0 1% 1206 SMT RES
R253		W100 10K0 1% 0805 SMT RES
R254		W100 10K0 1% 0805 SMT RES
R255		W250 619R0 1% 1206 SMT RES
R256		W100 10K0 1% 0805 SMT RES
R257		W100 10K0 1% 0805 SMT RES
R258		W100 10K0 1% 0805 SMT RES
R259		W100 182K 1% 0805 SMT RES
R260E		W125 10K 5% 0805 SMT RES
R260F		W125 10K 5% 0805 SMT RES
R261E		W125 10K 5% 0805 SMT RES
R261F		W125 10K 5% 0805 SMT RES
R262E		W125 1M 5% 0805 SMT RES
R262F		W125 1M 5% 0805 SMT RES
R263		W100 221R 1% 0805 SMT RES
R264		W100 221R 1% 0805 SMT RES
R265		W100 221R 1% 0805 SMT RES
R266		W100 182K 1% 0805 SMT RES
R267		W100 221R 1% 0805 SMT RES
R268		W125 10K 5% 0805 SMT RES
R269		W100 221R 1% 0805 SMT RES
R270		W125 33K 5% 0805 SMT RES
R271		W125 33K 5% 0805 SMT RES
R272		W125 10K 5% 0805 SMT RES
R273		W125 33K 5% 0805 SMT RES
R274		W125 1K5 5% 0805 SMT RES
R275		W100 221R 1% 0805 SMT RES
R276		W125 8K25 1% 0805 SMT RES
R277		W125 4M7 5% 0805 SMT RES
R278		W100 182K 1% 0805 SMT RES
R279		W125 47K 5% 0805 SMT RES
R280		W100 4K75 1% 0805 SMT RES

M2388-01 P4 Parts Reference List 2024-04-18

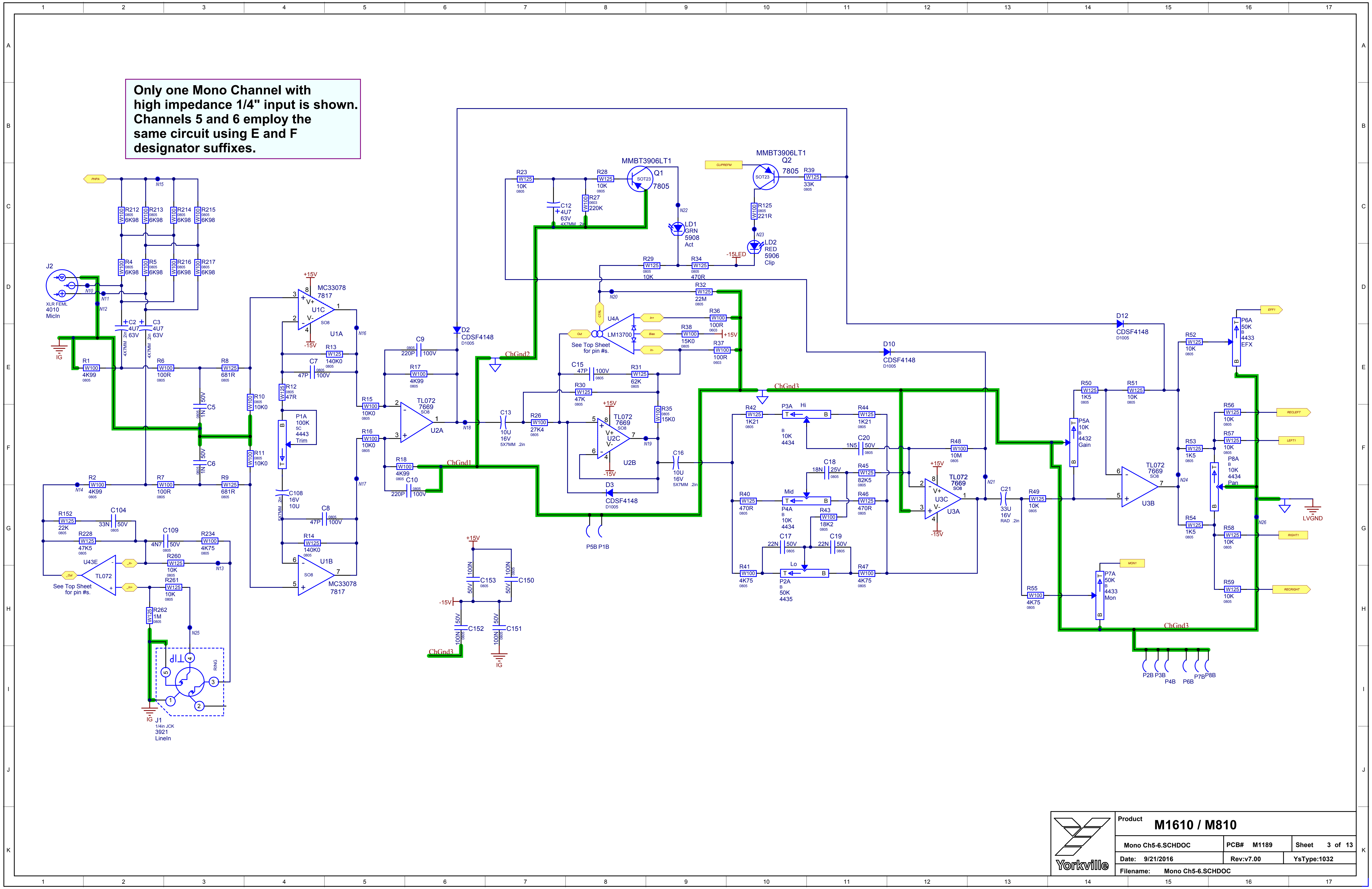
REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R281		W100 4K75 1% 0805 SMT RES												
R282		W125 10K 5% 0805 SMT RES												
R283		W125 47K 5% 0805 SMT RES												
R284		W125 22K 5% 0805 SMT RES												
R285		W125 10K 5% 0805 SMT RES												
R286		W125 47K 5% 0805 SMT RES												
R287		W125 10K 5% 0805 SMT RES												
R288		W125 47K 5% 0805 SMT RES												
R289		W125 47K 5% 0805 SMT RES												
R290		W125 8K25 1% 0805 SMT RES												
R291		W100 4K75 1% 0805 SMT RES												
R292		W125 4M7 5% 0805 SMT RES												
R293		W100 4K75 1% 0805 SMT RES												
R294		W100 182K 1% 0805 SMT RES												
R295		W100 182K 1% 0805 SMT RES												
R296		W100 150R 5% 0805 SMT RES												
R297		W125 4M7 5% 0805 SMT RES												
S1	3522	DPDT MINI PC VERT SNP ALT												
S2	3440	4PDT MINI VERT ALT SWITCH												
SNL1	8370	1 MIL POLYIMIDE LABEL, 1" X .380"												
U1		TL072 DUAL OPAMP SMT SO-8												
U1A		33078 DUAL OPAMP SMT SO-8												
U1B		33078 DUAL OPAMP SMT SO-8												
U1C		33078 DUAL OPAMP SMT SO-8												
U1D		33078 DUAL OPAMP SMT SO-8												
U1E		33078 DUAL OPAMP SMT SO-8												
U1F		33078 DUAL OPAMP SMT SO-8												
U2		TL072 DUAL OPAMP SMT SO-8												
U2A		TL072 DUAL OPAMP SMT SO-8												
U2B		TL072 DUAL OPAMP SMT SO-8												
U2C		TL072 DUAL OPAMP SMT SO-8												
U2D		TL072 DUAL OPAMP SMT SO-8												
U2E		TL072 DUAL OPAMP SMT SO-8												
U2F		TL072 DUAL OPAMP SMT SO-8												
U3A		TL072 DUAL OPAMP SMT SO-8												
U3B		TL072 DUAL OPAMP SMT SO-8												
U3C		TL072 DUAL OPAMP SMT SO-8												
U3D		TL072 DUAL OPAMP SMT SO-8												
U3E		TL072 DUAL OPAMP SMT SO-8												
U3F		TL072 DUAL OPAMP SMT SO-8												
U4		FV-1 SPIN SEMI REVERB SMT IC												
U4A		LM13700M XCONDUCTANC AMP SMT IC												
U4C		LM13700M XCONDUCTANC AMP SMT IC												
U4E		LM13700M XCONDUCTANC AMP SMT IC												
U5		24LC32A SER EEPROM MIX2-U3 YS DFX												
U6		TL074 QUAD OPAMP SMT SO14												
U7		MC33079D QUAD OPAMP SMT SO14												
U8		NC7SB3157 IC SPDT MUX SMT SC70-6												
U9		TL074 QUAD OPAMP SMT SO14												
U10		TL074 QUAD OPAMP SMT SO14												
U11		24LC32A SER EEPROM MIX2-U4 YS DFX												
U12		LM1117 REGULATOR 3V3 SMT SOT223												
U13		24LC32A SER EEPROM DFX UNPROGRAMMED												
U14		24LC32A SER EEPROM DFX UNPROGRAMMED												
U43E		TL072 DUAL OPAMP SMT SO-8												
U52		TL072 DUAL OPAMP SMT SO-8												
U55G		TL074 QUAD OPAMP SMT SO14												
U55H		TL074 QUAD OPAMP SMT SO14												
U57G		TL074 QUAD OPAMP SMT SO14												
U57H		TL074 QUAD OPAMP SMT SO14												
U58		TL072 DUAL OPAMP SMT SO-8												
W2	2329	12 CIR XH-HEADER 0.098IN												
W3	3966	GRN 16AWG PREFUSED WIRE												
X7		32KHZ CRYSTAL 4-PIN FSRLF SMT												


A_
PhantomFilter.SchDoc
ChPhP
A
B
PHPA
RECLEFT
RECRIGHT
EFF1
MON1
LEFT1
RIGHT1
CLIPREFM
In-
Bias
In+
CTRL
Out
Mono Ch1-4.SCHDOC
LM13700MX
U4A
-15V
+15V
C_
PhantomFilter.SchDoc
C
D
U4C
E_
PhantomFilter.SchDoc
E
F
Mono Ch5-6.SCHDOC
U4E
TL072
SO8
7669
U43E
50V
100N
0805
C110
C111
IG
G_
PhantomFilter.SchDoc
G
H
Stereo Ch.SCHDOC
CLIPREF
BeakMute
BreakMute.SCHDOC
Master
Master.SCHDOC
ECO
ECO.SCHDOC
History
History.SchDoc
Yorkville
1032
www.yorkville.com
Product(s): M1610 / M810
Description: Powered Mixer
PCB#: M1188
Rev#: V01
EML Rev#: 01
Sheet 1 Of 13
Modified: 12/14/2016
File: TopSheet.SchDoc
Tmp Rev: V031

Only one Mono Channel is shown. Channels 1 to 4 employ the same circuit using A,B,C and D designator suffixes.



Yorkville	Product	**M1610 / M810**	
	Mono Ch1-4.SCHDOC	PCB# M1189	Sheet 2 of 13
	Date: 9/19/2016	Rev:v7.00	YsType:1032
	Filename: Mono Ch1-4.SCHDOC		


Only one Mono Channel with
high impedance 1/4" input is shown.
Channels 5 and 6 employ the
same circuit using E and F
designator suffixes.
Product M1610 / M810
Mono Ch5-6.SCHDOC
PCB# M1189
Sheet 3 of 13
Date: 9/21/2016
Rev:v7.00
YsType:1032
Filename: Mono Ch5-6.SCHDOC
Yorkville

Only one stereo channel is shown. Channels 7&8 and 9&10 employ the same circuit using G and H designator suffixes.

J5 1/4in JCK 3921 LineInL

J6 1/4in JCK 3921 LineInR

J4 XLR FEML 4010 MicIn

U55E 8249 TL074 U55A

U55B 8249 TL074 U55B

U57B TL074 8249

U55D 8249 TL074 U55D

U55C 8249 TL074 U55C

U57C 8249 TL074 U57C

U57E 8249 TL074 U57D

U57A 8249 TL074 U57A

Q3 SOT23 MMBT3906LT1 7805

D4 CDSF4148 D1005

D5 CDSF4148 D1005

LD3 RED 5906 Clip

P10A 5C 10K 4431 Gain

P10B 5C 10K 4431 Gain

P9A 4443 Mon_Send

P16A 4434 Pan

P15A 50K B 4433 FX_Send

P12B LO 50K B 4439

P13B Mid 10K B 4438

P14B Hi 10K B 4438

P12A LO 50K B 4439

P13A Mid 10K B 4438

P14A Hi 10K B 4438

LVGND

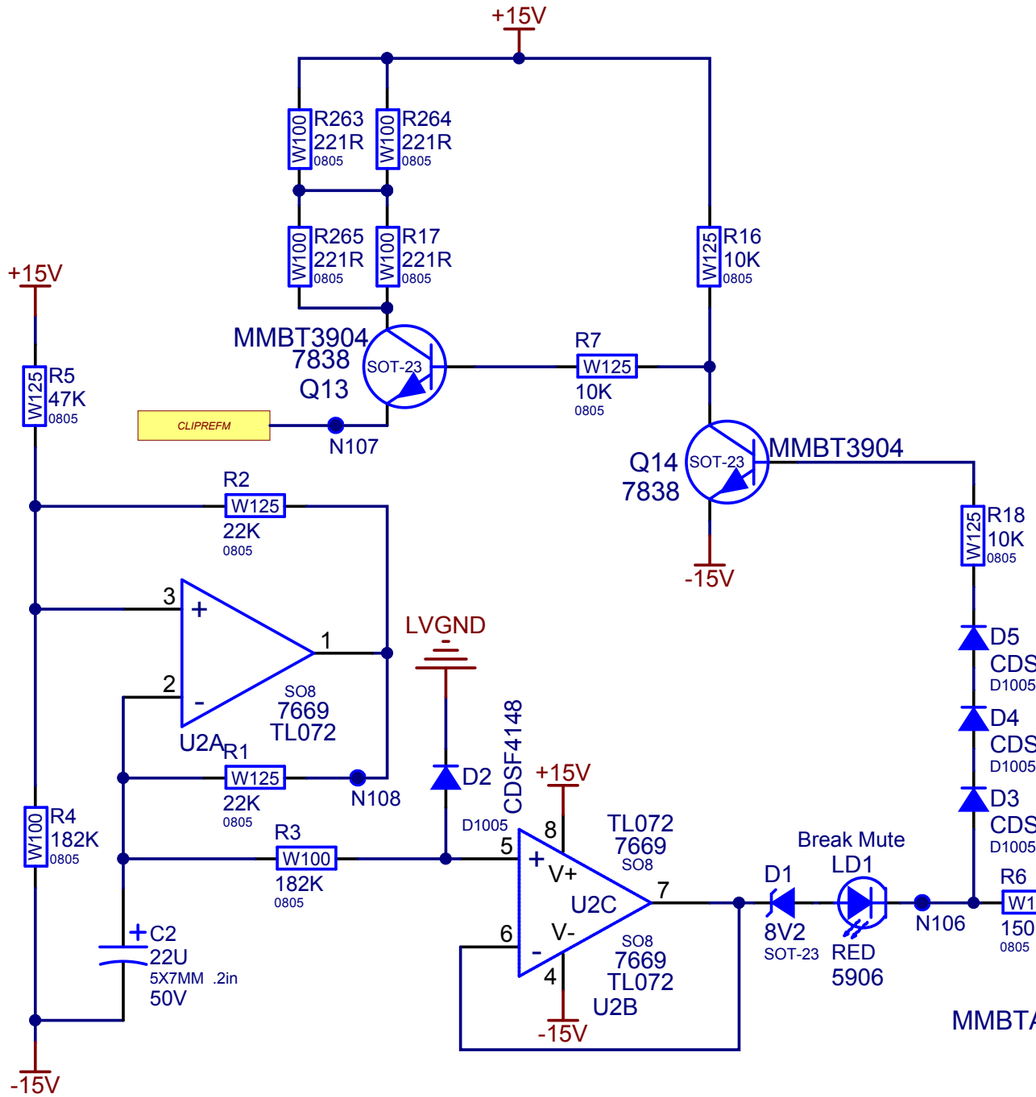
IG

-15LED

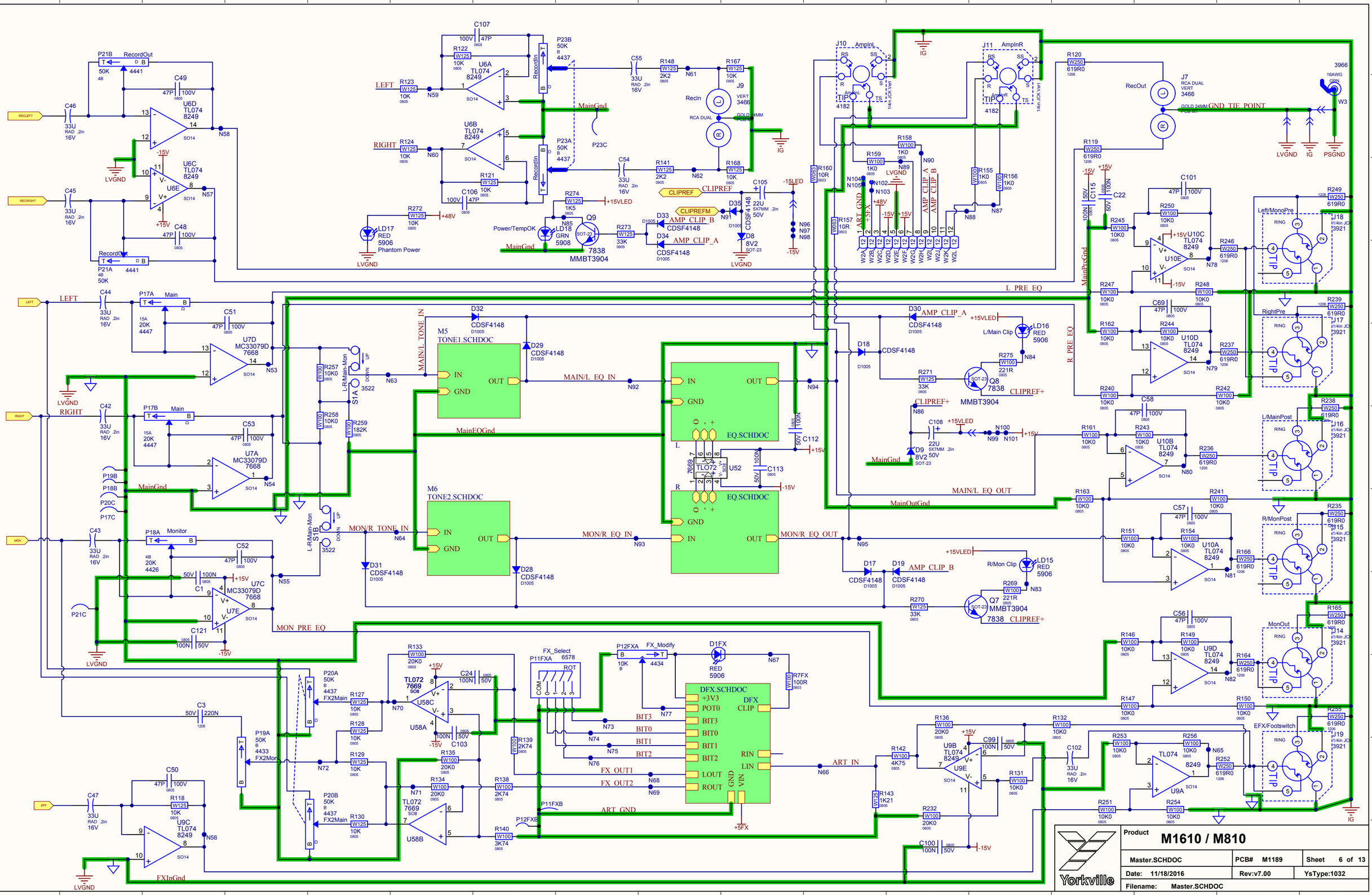
MON1 EFF1 RECLEFT LEFT1 RIGHT1 RECRIGHT PHPA CLIPREFM

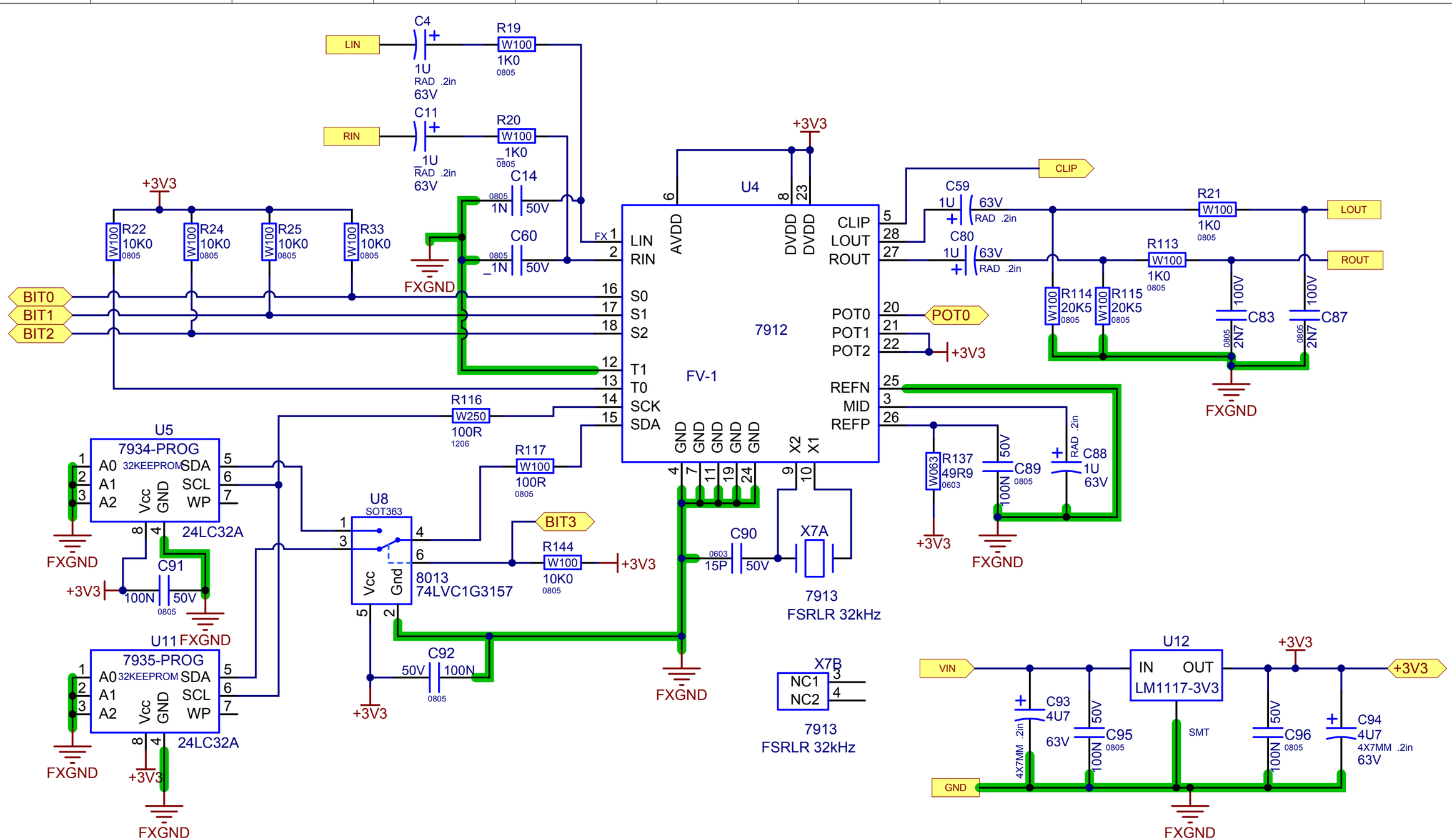
P16B P13C P14C P12C P10C P15B P9B

Section: Stereo Channels G-H			
Product(s): M1610 / M810			
PCB#: M1188	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 4 **Of** 13
Modified: 12/14/2016	**File:** Stereo Ch.SCHDOC		**Tmp Rev:** V031



Section:	**BreakSwitch**		
Product(s):	**M1610 / M810**		
PCB#: M1188	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 5 **Of** 13
Modified: 12/14/2016	**File:** BreakMute.SCHDOC		**Tmp Rev:** V031

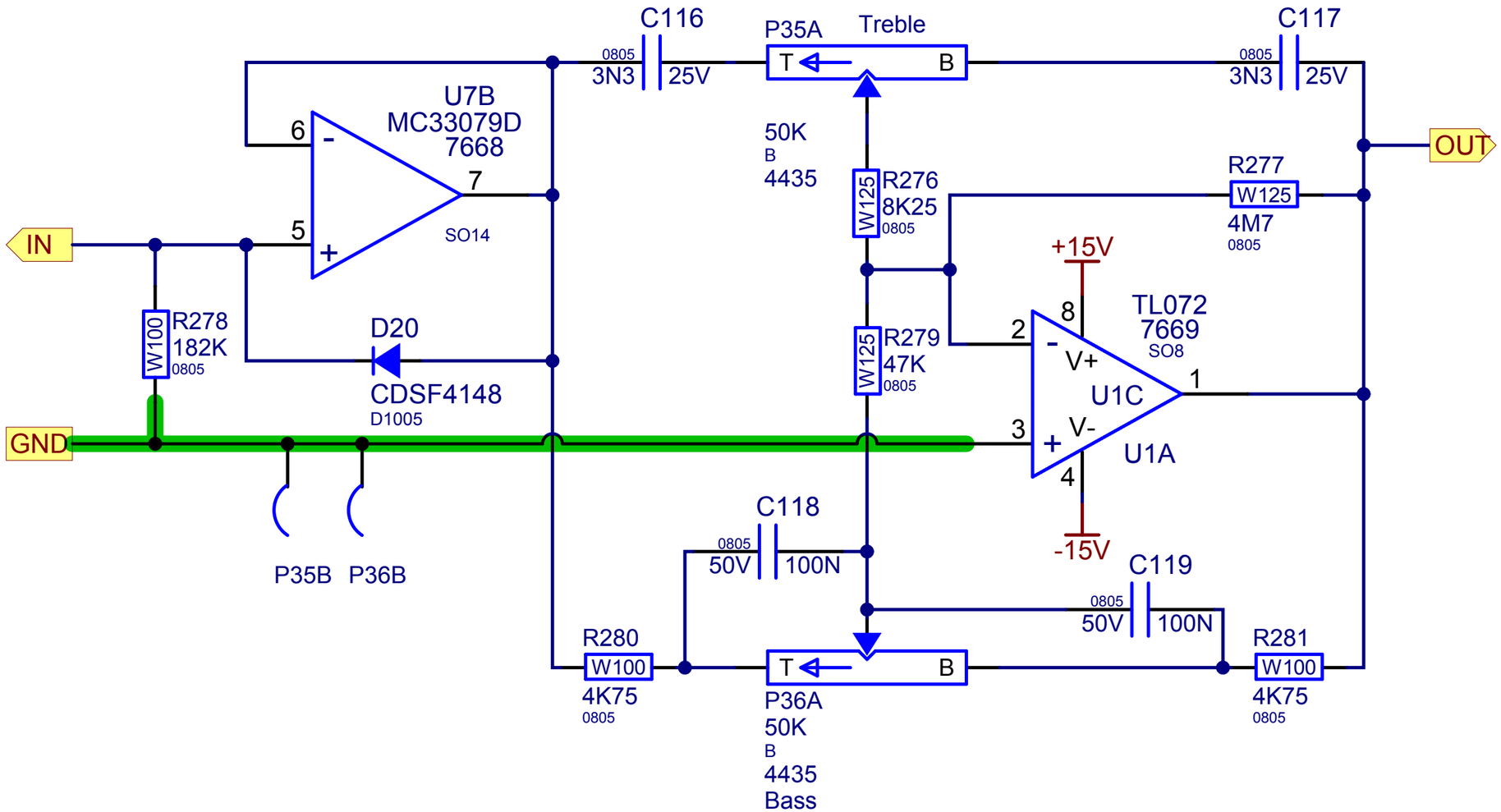

P21B RecordOut
C46 33U RAD .2in 16V
RECLEFT
C49 47P 100V 0805
U6D TL074 8249 SO14
N58
-15V
LVGND
U6C TL074 8249
U6E SO14
C45 33U RAD .2in 16V
RECRIGHT
+15V
C48 47P 100V 0805
RecordOut
P21A 4441
LEFT
C44 33U RAD .2in 16V
P17A Main
C51 47P 100V 0805
U7D MC33079D 7668 SO14
N53
RIGHT
C42 33U RAD .2in 16V
P17B Main
C53 47P 100V 0805
U7A MC33079D 7668 SO14
N54
P19B
P18B
MainGnd
P20C
P17C
MON
C43 33U RAD .2in 16V
P18A Monitor
C52 47P 100V 0805
C1 50V 100N 0805
U7C MC33079D 7668
U7E SO14
N55
P21C
C121 100N 0805 50V
EFF
C47 33U RAD .2in 16V
C50 47P 100V 0805
R118 10K W125 0805
U9C TL074 8249 SO14
N56
FXInGnd
C3 50V 220N 1206
P19A 50K B 4433 FX2Main
P20A 50K B 4437 FX2Main
P20B 50K B 4437 FX2Main
R127 10K W125 0805
R128 10K W125 0805
R129 10K W125 0805
R130 10K W125 0805
N72
R133 20K0 W100 0805
R135 20K0 W100 0805
R134 20K0 W100 0805
N71
TL072 7669 SO8
U58C
U58A
U58B
C24 100N 0805 50V
C103 100N 0805 50V
R139 2K74 W100 0805
R138 2K74 W100 0805
R140 3K74 W100 0805
P12FXB
ART_GND
FX_Select P11FXA 6578
COM 0 1 2 3
ROT
P12FXA FX_Modify
10K B
4434
D1FX RED 5906
N67
R7FX 100R 0603
DFX.SCHDOC
+3V3
POT0
BIT3
BIT0
BIT1
BIT2
LOUT
ROUT
DFX CLIP
RIN
LIN
GND
VIN
+5FX
BIT3
BIT0
BIT1
BIT2
FX_OUT1
FX_OUT2
N73
N74
N75
N76
N68
N69
ART_IN
N66
R142 4K75 W100 0805
R143 1K21 W25 0805
R232 20K0 W100 0805
C100 100N 0805 50V
-15V
U9B TL074 8249 SO14
U9E
C99 100N 0805 50V
R131 10K0 W100 0805
R136 20K0 W100 0805
C102 33U RAD .2in 16V
R132 10K0 W100 0805
R253 10K0 W100 0805
R256 10K0 W100 0805
N65
R252 619R0 W250 1206
U9A TL074 8249 SO14
R251 10K0 W100 0805
R254 10K0 W100 0805
R255 619R0 W250 1206
EFX/Footswitch
J19 t14in JCK 3921
IG
M5 TONE1.SCHDOC
IN
OUT
GND
MAIN/L_TONE_IN
MAIN/L_EQ_IN
N92
D32 CDSF4148 D1005
D29 CDSF4148 D1005
MainEQGnd
M6 TONE2.SCHDOC
MON/R_TONE_IN
N64
D31 CDSF4148 D1005
D28 CDSF4148 D1005
MON/R_EQ_IN
N93
EQ.SCHDOC
L
R
TL072 SO8
U52
C113 100N 0805 50V
C112 100N 0805 50V
+15V
-15V
MON/R_EQ_OUT
N95
MAIN/L_EQ_OUT
MainOutGnd
N94
L-R/Main-Mon
S1A
S1B
UP
DOWN
3522
D30 AMP_CLIP_A CDSF4148 D1005
D18 CDSF4148 D1005
+15VLED
L/Main Clip
LD16 RED 5906
R275 221R 0805
N84
Q8 7838 MMBT3904
R271 33K W125 0805
CLIPREF+
N86
C108 22U 5X7MM .2in 50V
N100
N99
N101
D9 8V2 SOT-23
MainGnd
D17 CDSF4148 D1005
D19 AMP_CLIP_B CDSF4148 D1005
R/Mon Clip
LD15 RED 5906
R269 221R 0805
N83
Q7 7838 MMBT3904
R270 33K W125 0805
CLIPREF+
MON_PRE_EQ
L_PRE_EQ
R_PRE_EQ
MainPreGnd
J10 AmpInL
J11 AmpInR
RS
SS
R
S
TIP 4182
TS
14in JCK Vert
R158 1K0 W100 0805
R159 1K0 W100 0805
R160 10R 0603
R157 10R 0603
N104
N105
N102
N103
+48V
-15V
+15V
AMP_CLIP_A
AMP_CLIP_B
R155 1K0 W100 0805
R156 1K0 W100 0805
N88
N87
N90
N89
LVGND
R120 619R0 W250 1206
RecOut
J7 RCA DUAL VERT 3466
GOLD 24MM PCB MT
GND_TIE_POINT
3966
16AWG GRN
W3
LVGND
IG
PSGND
R119 619R0 W250 1206
C115 100N 1206 50V
C22 100N 0805 50V
C101 47P 100V 0805
R250 10K0 W100 0805
R245 10K0 W100 0805
U10C TL074 8249 SO14
U10E
R246 619R0 W250 1206
N78
Left/MonoPre
J18 t14in JCK 3921
R249 619R0 W250 1206
R247 10K0 W100 0805
R248 10K0 W100 0805
C69 47P 100V 0805
RightPre
J17 t14in JCK 3921
R239 619R0 W250 1206
R162 10K0 W100 0805
R244 10K0 W100 0805
U10D TL074 8249 SO14
R237 619R0 W250 1206
N79
R240 10K0 W100 0805
R242 10K0 W100 0805
C58 47P 100V 0805
L/MainPost
J16 t14in JCK 3921
R238 619R0 W250 1206
R161 10K0 W100 0805
R243 10K0 W100 0805
U10B TL074 8249 SO14
R236 619R0 W250 1206
N80
R241 10K0 W100 0805
R/MonPost
J15 t14in JCK 3921
R235 619R0 W250 1206
C57 47P 100V 0805
R151 10K0 W100 0805
R154 10K0 W100 0805
U10A TL074 8249 SO14
R166 619R0 W250 1206
N81
MonOut
J14 t14in JCK 3921
R165 619R0 W250 1206
C56 47P 100V 0805
R146 10K0 W100 0805
R149 10K0 W100 0805
U9D TL074 8249 SO14
R164 619R0 W250 1206
N82
R147 10K0 W100 0805
R150 10K0 W100 0805
Product
M1610 / M810
Master.SCHDOC
PCB# M1189
Sheet 6 of 13
Date: 11/18/2016
Rev:v7.00
YsType:1032
Filename: Master.SCHDOC
Yorkville



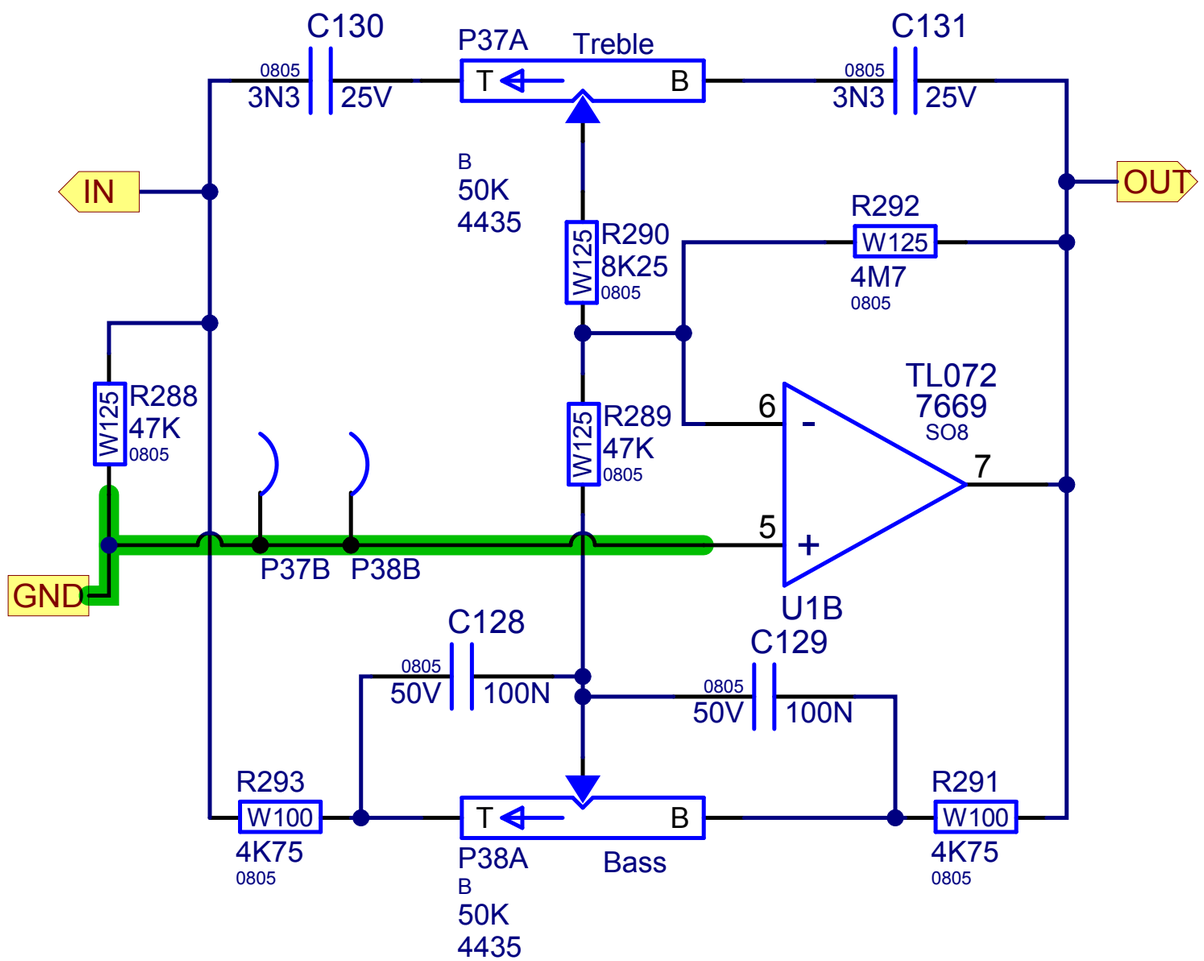
ALL RESISTORS ARE 1% UNLESS OTHERWISE NOTED

Yorkville

Section:	**Digital Effects**			
Product(s):	**M1610 / M810**			
PCB#: M1188	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 7 **Of** 13	
Modified: 12/14/2016	**File:** DFX.SCHDOC		**Tmp Rev:** V031	



Section: **Tone - Left**			
Product(s): **M1610 / M810**			
PCB#: M1188	Rev#: V01	EML Rev#: 01	Sheet 8 Of 13
Modified: 12/14/2016	File: TONE1.SCHDOC		Tmp Rev: V031



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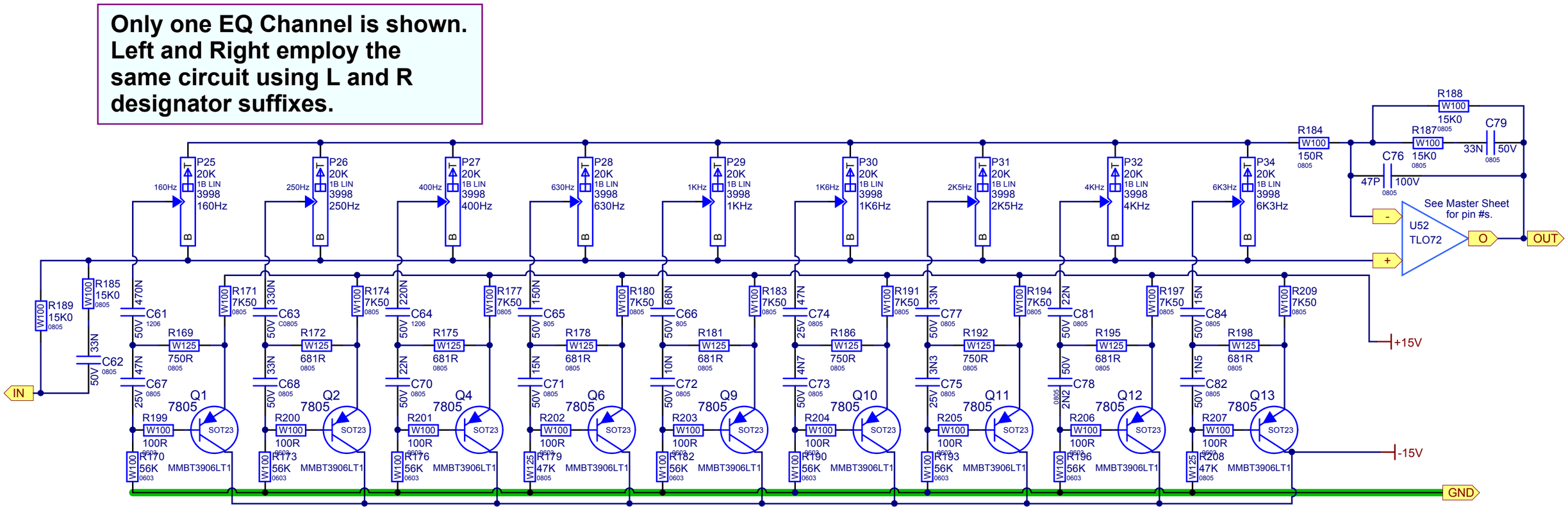
Section: Tone - Right			
Product(s): M1610 / M810			
PCB#: M1188	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 9 **Of** 13
Modified: 12/14/2016	**File:** TONE2.SCHDOC		**Tmp Rev:** V031

Only one EQ Channel is shown. Left and Right employ the same circuit using L and R designator suffixes.



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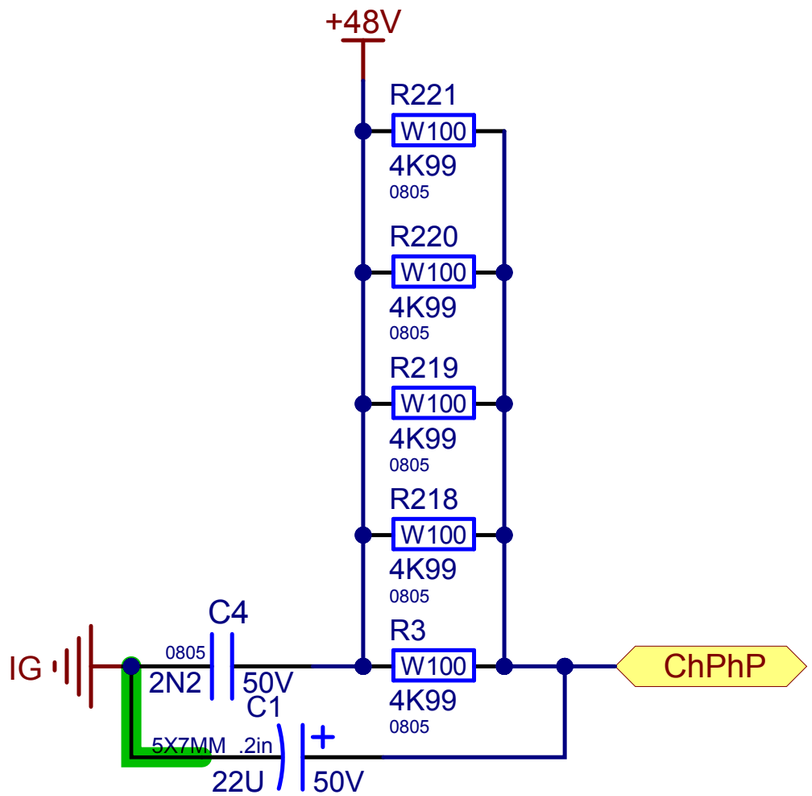
Section:	**Graphic EQ L&R**				
Product(s):	**M1610 / M810**				
PCB#: M1188	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 10 **Of** 13		
Modified: 12/14/2016	**File:** EQ.SCHDOC		**Tmp Rev:** V031		



Only one circuit is shown.
Each pair of Channels shares one of this circuit.
A_ parts for Ch A&B,
C_ parts for Ch C&D ect.

Yorkville

Section: **Phantom Pwr Filter**			
Product(s): **M1610 / M810**			
PCB#: M1188	*Rev#:* V01	*EML Rev#:* 01	*Sheet* 11 *Of* 13
Modified: 12/14/2016	*File:* PhantomFilter.SchDoc		*Tmp Rev:* V031

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	DD-MMM-YYYY	V01	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
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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9	.	.	.	.
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11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	**FUNCTION**	**POT/SW YS#**	**STYLE**	**KNOB#**
P25-34 L&R	Graphic EQ	3998	S04	N/A
P1A,1B,1C,1D,1E,1F	Trim	4443	P32	9915
P9G,9H (Monitor sends on stereo channels)	Mon	4443	P32	9917
P5A,5B,5C,5D,5E,5F	Level	4432	P32	9920
P15G,15H,6A,6B,6C,6D,6E,6F	EFX	4433	P32	9918
P7A,7B,7C,7D,7E,7F (Monitor sends on mono channels)	Mon	4433	P32	9917
P3A-F,4A-F (Hi / Mid on mono channels)	Hi, Mid	4434	P32	9916
P16G,16H, 8A-F	Bal, Pan	4434	P32	9919
P2A,2B,2C,2D,2E,2F (Lo on mono channels)	Lo	4435	P32	9916
P35,36,37,38	Graphic EQ Lo, Hi	4435	P32	9916
P21	Rec Out	4441	P34	9920
P20	MAIN EFX Return	4437	P34	9920
.	.	.	.	.
P13G,13H,14G,14H (Hi / Mid on stereo channels)	Hi, Mid	4438	P34	9916
P12G,12H (Lo on stereo channels)	Lo	4439	P34	9916
P11FX	EFX Select	6587	P23	8397
P23	Tape/CD	4437	P34	9915
P18 (Master monitor send)	MON	4426	P34	9917
P19	MON EFX Return	4433	P32	9917
P17 (L&R master level)	MAIN	4447	P34	9920
P12FX	MODIFY EFX	4434	P32	9918
.	.	.	.	.
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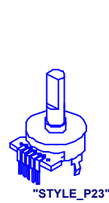
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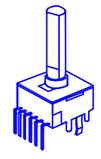
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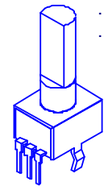
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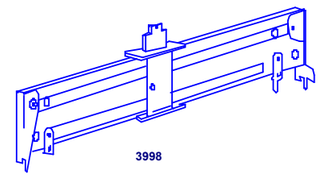
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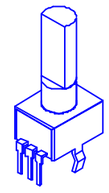
"STYLE_P32"

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

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Section:	Design Information And History				
Product(s):	M1610 / M810				
PCB#: M1188	Rev#: V01	EML Rev#: 01	Sheet 12 Of 13		
Modified: 12/14/2016	File: History.SchDoc		Tmp Rev: V031		

A_
PhantomFilter.SchDoc
ChPhP
A
Mono Ch1-4.SCHDOC
PHPA
RECLEFT
RECRIGHT
EFF1
MON1
LEFT1
RIGHT1
CLIPREFM
In-
Bias
In+
CTRL
Out
B
Mono Ch1-4.SCHDOC
PHPA
RECLEFT
RECRIGHT
EFF1
MON1
LEFT1
RIGHT1
CLIPREFM
In-
Bias
In+
CTRL
Out
LM13700MX
U4A
-15V
+15V
C_
PhantomFilter.SchDoc
ChPhP
C
Mono Ch1-4.SCHDOC
D
Mono Ch1-4.SCHDOC
LM13700MX
U4C
-15V
+15V
E_
PhantomFilter.SchDoc
ChPhP
E
Mono Ch5-6.SCHDOC
In+
In-
Out
F
Mono Ch5-6.SCHDOC
Out
In-
In+
LM13700MX
U4E
-15V
+15V
TLO72
SO8
7669
U43E
-15V
+15V
50V
100N
0805
C110
50V
100N
0805
C111
IG
G_
PhantomFilter.SchDoc
ChPhP
G
Stereo Ch.SCHDOC
PHPA
RECRIGHT
RECLEFT
EFF1
MON1
LEFT1
RIGHT1
CLIPREFM
H
Stereo Ch.SCHDOC
PHPA
RECRIGHT
RECLEFT
EFF1
MON1
LEFT1
RIGHT1
CLIPREFM
Master
Master.SCHDOC
RECLEFT
RECRIGHT
EFF
MON
LEFT
RIGHT
CLIPREF
CLIPREFM
CLIPREFM
RIGHT1
LEFT1
MON1
EFF1
EFF
MON
LEFT
RIGHT
BeakMute
CLIPREFM
BreakMute.SCHDOC

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1032
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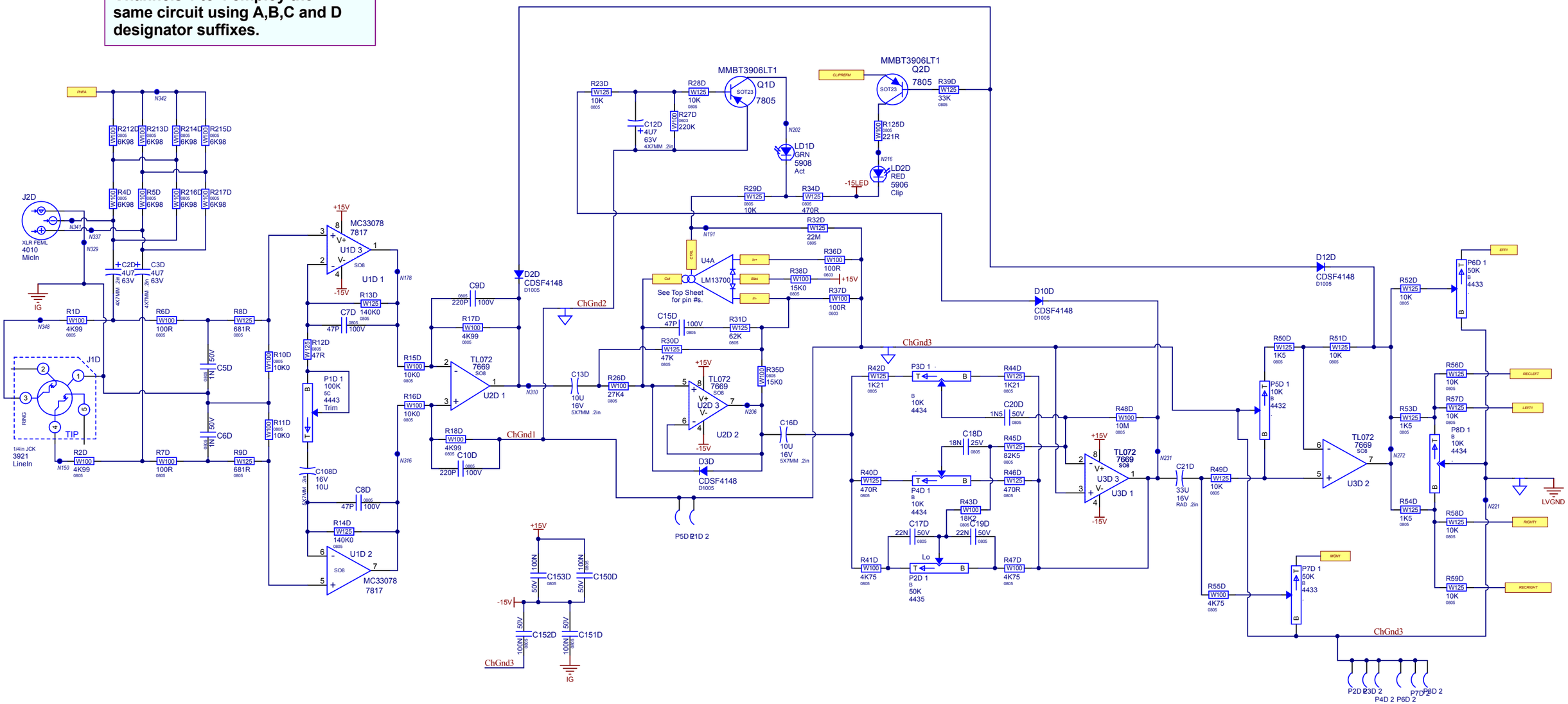
Product(s):	M1610-2-M810-2		
Description:	Powered Mixer		
PCB#: M1188	Rev#: V01	EML Rev#: 01	Sheet 1
Modified: 2021-09-27	File: TopSheet.SchDoc		Tmp Rev: V031

Only one Mono Channel is shown. Channels 1 to 4 employ the same circuit using A,B,C and D designator suffixes.



Yorkville	Product **M1610 / M810.4**		
	Mono Ch1-4.SCHDOC	PCB# M1189	Sheet 2
	Date: 2021-09-22	Rev:v7.00	YsType:1032
	Filename: Mono Ch1-4.SCHDOC		

Only one Mono Channel with high impedance 1/4" input is shown. Channels 5 and 6 employ the same circuit using E and F designator suffixes.

J2E
XLR FEML
4010
MicIn

J1E
1/4in JCK
3921
LineIn

U1E 1 MC33078 7817
U1E 2 MC33078 7817
U1E 3 MC33078 7817
U2E 1 TL072 7669 SO8
U2E 2 TL072 7669 SO8
U2E 3 TL072 7669 SO8
U3E 1 TL072 7669 SO8
U3E 2 TL072 7669 SO8
U43E TL072
U4A LM13700

Q1E MMBT3906LT1 7805
Q2E MMBT3906LT1 7805
LD1E GRN 5908 Act
LD2E RED 5906 Clip

D1E CDSF4148 D1005
D2E CDSF4148 D1005
D3E CDSF4148 D1005
D10E CDSF4148 D1005
D12E CDSF4148 D1005

P1E 1 100K 5C 4443 Trim
P2E 1 50K B 4435
P3E 1 10K B 4434 Hi
P4E 1 10K B 4434 Mid
P5E 1 10K B 4432 Gain
P6E 1 50K B 4433 EFX
P7E 1 50K B 4433 Mon
P8E 1 10K B 4434 Pan

See Top Sheet for pin #s.

ChGnd1
ChGnd2
ChGnd3

+15V
-15V
-15LED
IG
LVGND

EFFT
RECLEFT
LEFTT
RIGHTT
RECRIGHT
MONT

Product	M1610 / M810.1
Mono Ch5-6.SCHDOC	PCB# M1189 Sheet 3
Date: 2021-09-22	Rev:v7.00 YsType:1032
Filename: Mono Ch5-6.SCHDOC	

Yorkville

Only one stereo channel is shown. Channels 7&8 and 9&10 employ the same circuit using G and H designator suffixes.

TIP
RING
J5H
1/4in JCK
3921
LineInL
N603
N596
R63H W100 3K74 0805
R67H W125 249R0 0805
R69H W125 562R0 0805
R73H W100 4K99 0805
C26H 1N 50V 0805
C27H 1N 50V 0805
R64H W100 3K74 0805
R68H W125 249R0 0805
R70H W125 562R0 0805
R74H W100 4K99 0805
U55H 5 8249 TL074
U55H 1
+15V
-15V
SO14
N606
PHPA
R218H 6K98 0805
R219H 6K98 0805
R220H 6K98 0805
R221H 6K98 0805
R60H 6K98 0805
R222H 6K98 0805
R61H 6K98 0805
R223H 6K98 0805
N611
J4H
XLR FEML
4010
MicIn
C23H 22U 5X7MM .2in 50V
C25H 22U 5X7MM .2in 50V
N602
N600
LVGND
C30H 10U 5X7MM .2in 16V
R79H W100 100R 0603
P10H 1 5C 10K 4431
C33H 100U 8X7MM .2in 16V
R84H W125 82K5 0805
N571
U55H 4 8249 TL074
C34H 10U 5X7MM .2in 16V
U57H 2 8249 TL074
R77H W125 10K 0805
N616
R81H W100 475R0 0805
100K 5C 4443
P9H 1
R82H W125 22K 0805
C31H 10U 5X7MM .2in 16V
R78H W125 10K 0805
U57H 3 8249 TL074
N547
C37H 10U 5X7MM .2in 16V
R85H W100 4K75 0805
P12H 2 50K B 4439
R99H W100 4K75 0805
R94H W100 18K2 0805
R86H W125 470R 0805
P13H 2 10K B 4438
R96H W125 470R 0805
C40H 50V 22N 0805
Q3H SOT23 MMBT3906LT1 7805
CLIPREFM
R103H W125 33K 0805
R126H W100 221R 0805
N552
D4H CDSF4148 D1005
D5H CDSF4148 D1005
LD3H RED 5906 Clip
-15LED
R97H W125 4M7 0805
R92H W125 82K5 0805
C41H 1N5 50V 0805
U57H 5 8249 TL074 U57H 4
N513
R89H W125 1K21 0805
R14H 2 10K B 4438
R100H W125 1K21 0805
R105H W100 4K75 0805
MON1
R87H W100 4K75 0805
P12H 1 50K B 4439
R101H W100 4K75 0805
EFF1
R104H W125 10K 0805
P15H 1 50K B 4433 FX_Send
R93H W100 18K2 0805
R106H W125 10K 0805
R88H W125 470R 0805
P13H 1 10K B 4438
R95H W125 470R 0805
C38H 22N 50V 0805
R109H W125 10K 0805
RECLEFT
R107H W125 1K5 0805
R110H W125 10K 0805
LEFT1
R91H W125 82K5 0805
R98H W125 4M7 0805
U57H 1 8249 TL074
N534
10K B 4434 Pan
P16H 1
C39H 1N5 50V 0805
R90H W125 1K21 0805
P14H 1 10K B 4438
R102H W125 1K21 0805
R108H W125 1K5 0805
R112H W125 10K 0805
RIGHT1
R111H W125 10K 0805
RECRIGHT
TIP
RING
J6H
1/4in JCK
3921
LineInR
IG
N588
N618
N587
R65H W125 4K12 0805
R71H W100 825R 0805
R75H W100 4K99 0805
C28H 1N 50V 0805
C29H 1N 50V 0805
R66H W125 4K12 0805
R72H W100 825R 0805
R76H W100 4K99 0805
U55H 2 8249 TL074
C32H 10U 5X7MM .2in 16V
R80H W100 100R 0603
P10H 2 5C 10K 4431 Gain
C35H 100U 8X7MM .2in 16V
R83H W125 82K5 0805
N560
U55H 3 8249 TL074
C36H 10U 5X7MM .2in 16V
C85H 100N 50V 0805
C97H 100N 50V 0805
C86H 100N 50V 0805
C98H 100N 50V 0805
P16H 2
P13H 2
P14H 2
P12H 2
P10H 2
P15H 2
P9H 2

Section:	Stereo Channels G-H		
Product(s):	M1610-2-M810-2		
PCB#: M1188	Rev#: V01	EML Rev#: 01	Sheet 4
Modified: 2021-09-27	File: Stereo Ch.SCHDOC		Tmp Rev: V031

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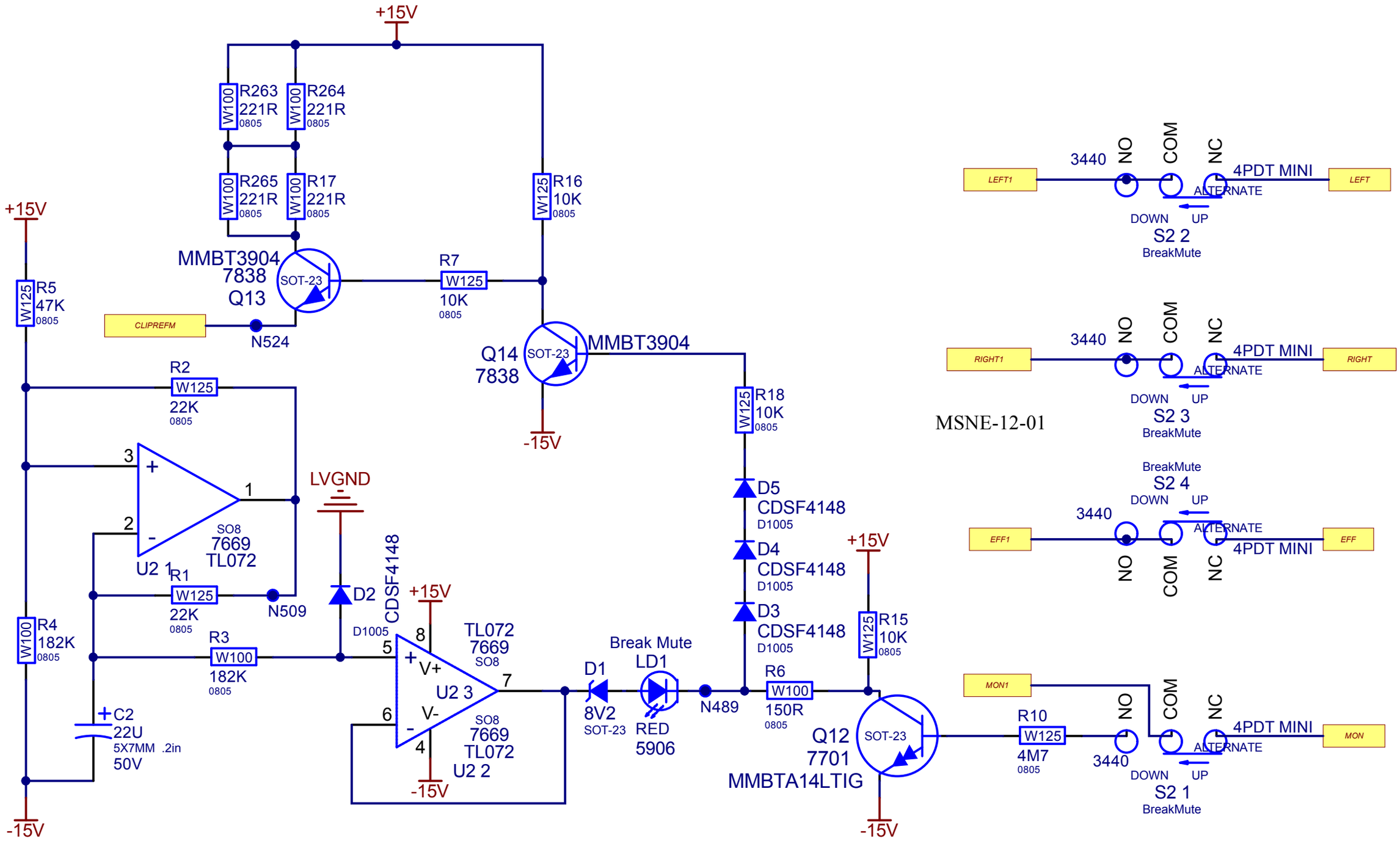
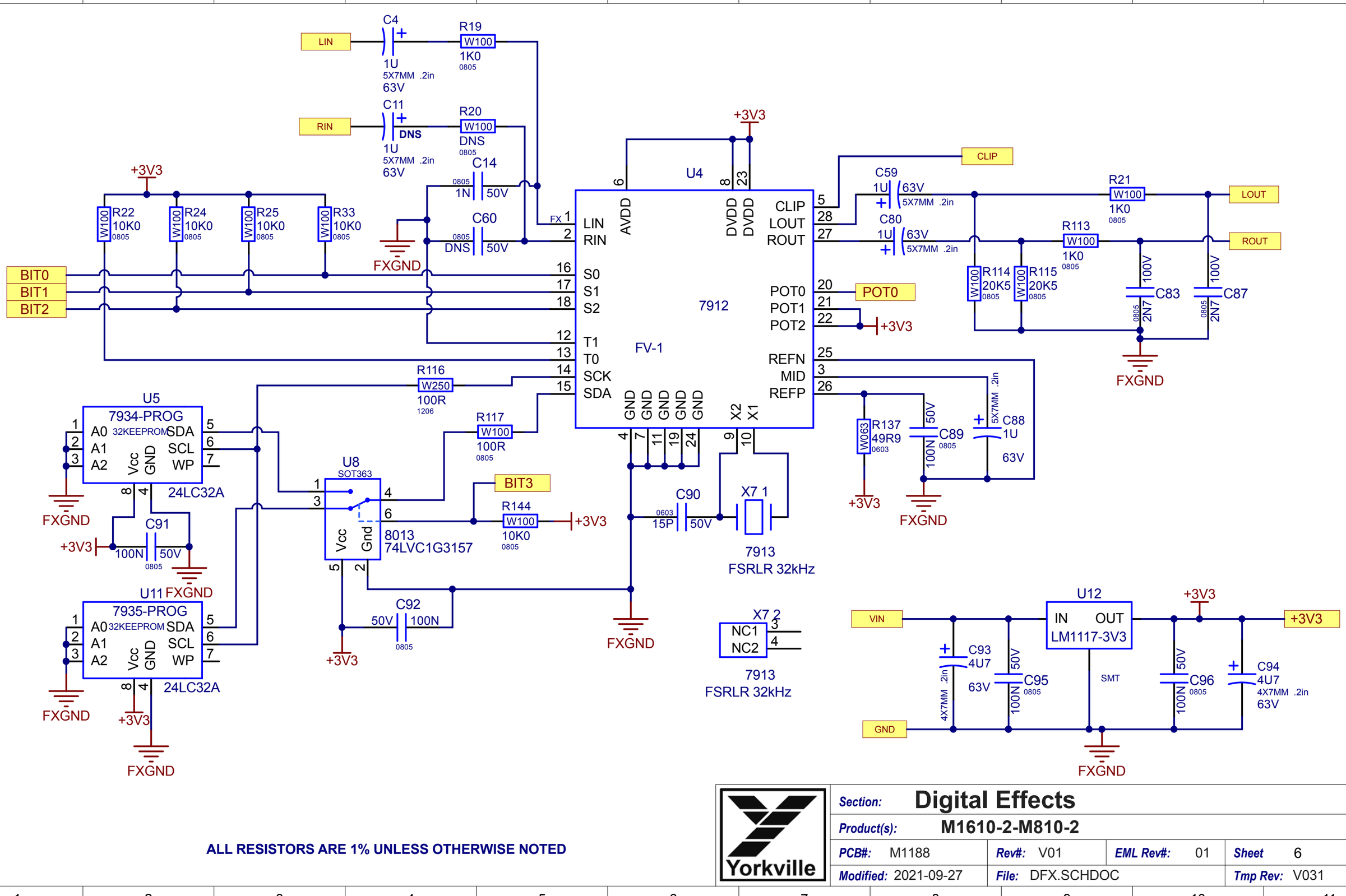


Section: BreakSwitch			
Product(s): M1610-2-M810-2			
PCB#: M1188	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 5
Modified: 2021-09-27	**File:** BreakMute.SCHDOC		**Tmp Rev:** V031



ALL RESISTORS ARE 1% UNLESS OTHERWISE NOTED

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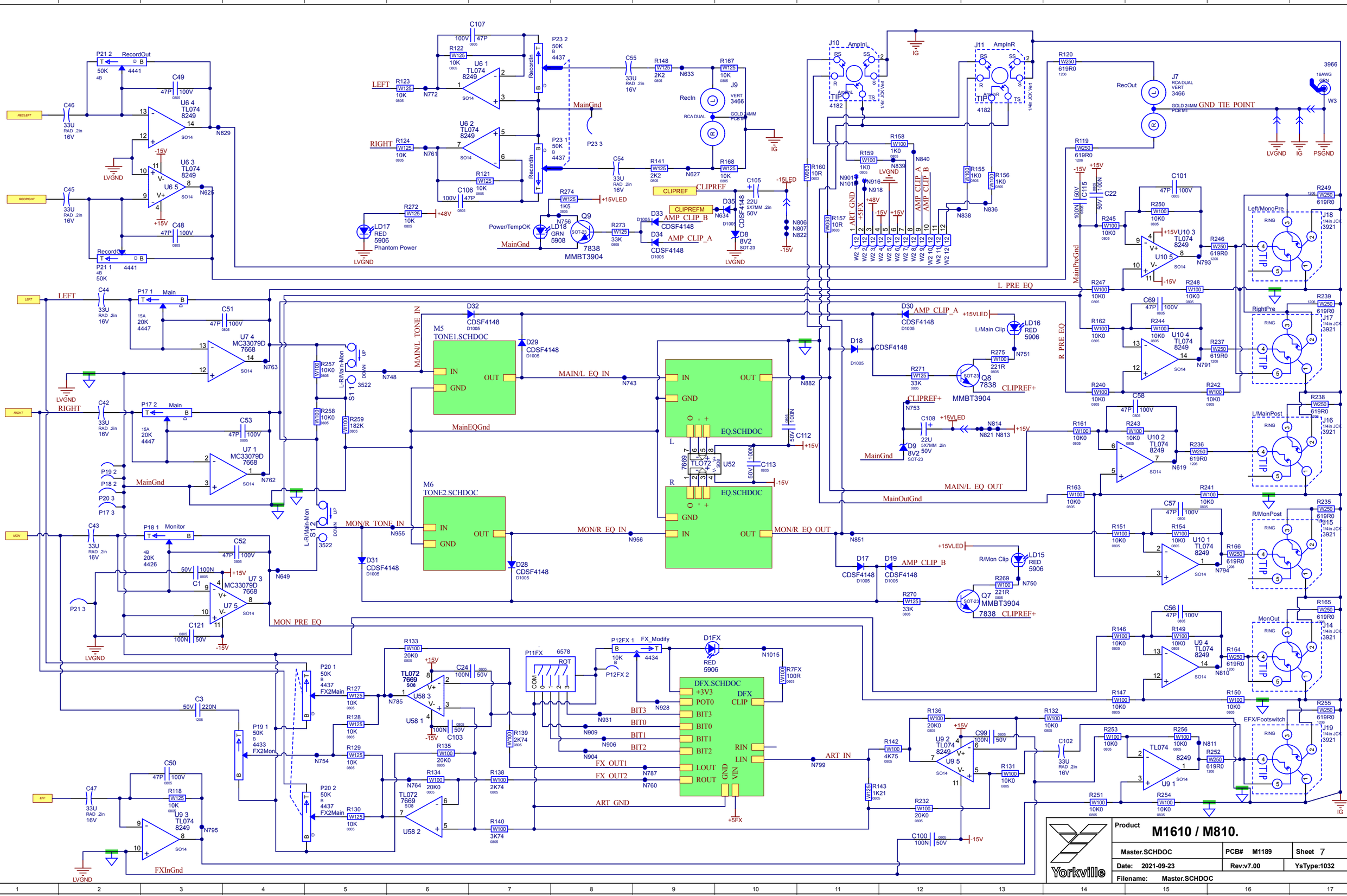
Section:	**Digital Effects**		
Product(s):	**M1610-2-M810-2**		
PCB#: M1188	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 6
Modified: 2021-09-27	**File:** DFX.SCHDOC		**Tmp Rev:** V031


P21 2 RecordOut
C46 33U RAD .2in 16V
C49 47P 100V
U6 4 TL074 8249
U6 3 TL074 8249
U6 5
C45 33U RAD .2in 16V
C48 47P 100V
P21 1 RecordOut
LVGND
-15V
+15V
N629
N625
C107 100V 47P
R122 10K
U6 1 TL074 8249
U6 2 TL074 8249
LEFT R123 10K
RIGHT R124 10K
N772
N761
P23 2 50K B 4437
P23 1 50K B 4437
Recordin
MainGnd
P23 3
C55 33U RAD .2in 16V
C54 33U RAD .2in 16V
R148 2K2
R141 2K2
N633
N627
R167 10K
R168 10K
RecIn
J9 VERT 3466
RCA DUAL
GOLD 24MM PCB MT
IG
C106 100V 47P
R121 10K
R272 10K
+48V
LD17 RED 5906 Phantom Power
CLIPREF
CLIPREFM
D33 AMP_CLIP_B CDSF4148
D34 AMP_CLIP_A CDSF4148
D35 CDSF4148 5X7MM .2in 50V
C105 22U 5X7MM .2in 50V
-15LED
N806 N807 N822
R274 1K5
+15VLED
Power/TempOK
LD18 GRN 5908
Q9 SOT-23 7838 MMBT3904
R273 33K
N756
R160 10R
R157 10R
W063
J10 AmpInL
J11 AmpInR
4182
1/4in JCK Vert
R158 1K0
R159 1K0
N840
N839
N901 N1010
N916
N918
+48V
-15V
+15V
+5FX
1 ART GND
AMP_CLIP_A
AMP_CLIP_B
R155 1K0
R156 1K0
N838
N836
R120 619R0 1206
RecOut
J7 RCA DUAL VERT 3466
GOLD 24MM PCB MT
GND TIE POINT
3966 16AWG GRN
W3
LVGND IG PSGND
R119 619R0 1206
C115 50V 100N 0805
C22 50V 100N 0805
C101 47P 100V
R250 10K0
R245 10K0
U10 3 TL074 8249
U10 5
R246 619R0 1206
N793
Left/MonoPre
J18 1/4in JCK 3921
RING TIP
MainPreGnd
L PRE EQ
R247 10K0
R248 10K0
C69 47P 100V
R162 10K0
R244 10K0
U10 4 TL074 8249
R237 619R0 1206
N791
R240 10K0
R242 10K0
C58 47P 100V
R239 619R0 1206
RightPre
J17 1/4in JCK 3921
R238 619R0 1206
L/MainPost
J16 1/4in JCK 3921
R236 619R0 1206
N619
R241 10K0
R235 619R0 1206
R/MonPost
J15 1/4in JCK 3921
C57 47P 100V
R151 10K0
R154 10K0
U10 1 TL074 8249
R166 619R0 1206
N794
R165 619R0 1206
MonOut
J14 1/4in JCK 3921
C56 47P 100V
R146 10K0
R149 10K0
U9 4 TL074 8249
R164 619R0 1206
N810
R147 10K0
R150 10K0
R255 619R0 1206
EFX/Footswitch
J19 1/4in JCK 3921
IG
LEFT C44 33U RAD .2in 16V
P17 1 Main
15A 20K 4447
C51 47P 100V
U7 4 MC33079D 7668
N763
RIGHT C42 33U RAD .2in 16V
P17 2 Main
C53 47P 100V
U7 1 MC33079D 7668
N762
P19 2
P18 2
P20 3
P17 3
MainGnd
MON C43 33U RAD .2in 16V
P18 1 Monitor
4B 20K 4426
C52 47P 100V
U7 3 MC33079D 7668
C1 50V 100N
U7 5
C121 100N 50V
P21 3
MON_PRE_EQ
R257 10K0
R258 10K0
R259 182K
L-R/Main-Mon
S1 1 3522
S1 2 3522
UP DOWN
N748
MAIN/L_TONE_IN
D32 CDSF4148
D29 CDSF4148
M5 TONE1.SCHDOC
IN OUT GND
MAIN/L_EQ_IN
N743
MainEQGnd
M6 TONE2.SCHDOC
MON/R_TONE_IN
N955
D31 CDSF4148
D28 CDSF4148
MON/R_EQ_IN
N956
L EQ.SCHDOC
R EQ.SCHDOC
O ' +
N882
C112 100N
C113 100N
+15V
-15V
TL072 7669 SO8
U52
MON/R_EQ_OUT
N851
D30 AMP_CLIP_A CDSF4148
D18 CDSF4148
L/Main Clip
LD16 RED 5906
R275 221R
N751
R271 33K
Q8 SOT-23 7838 MMBT3904
CLIPREF+
N753
C108 22U 5X7MM .2in 50V
N814 N821 N813
D9 8V2 SOT-23
MainGnd
MAIN/L_EQ_OUT
MainOutGnd
R/Mon Clip
LD15 RED 5906
R269 221R
N750
Q7 SOT-23 7838 MMBT3904
CLIPREF+
D17 CDSF4148
D19 AMP_CLIP_B CDSF4148
R270 33K
R/MainPreGnd
R PRE EQ
P11FX 6578 ROT
COM 0 1 2 3
P12FX 1 FX_Modify
P12FX 2
4434
D1FX RED 5906
N1015
R7FX 100R
DFX.SCHDOC
+3V3 POT0 BIT3 BIT0 BIT1 BIT2 LOUT ROUT GND VIN
DFX CLIP RIN LIN
BIT3 BIT0 BIT1 BIT2
FX_OUT1 FX_OUT2
N928 N931 N909 N906 N904 N787 N760
ART_GND
+5FX
ART_IN
N799
P20 1 50K B 4437 FX2Main
P19 1 50K B 4433 FX2Mon
P20 2 50K B 4437 FX2Main
C3 50V 220N
R127 10K
R128 10K
R129 10K
R130 10K
R133 20K0
R134 20K0
R135 20K0
TL072 7669 SO8
U58 3
U58 1
U58 2
C24 100N 50V
C103 100N 50V
N785
N754
N764
R139 2K74
R138 2K74
R140 3K74
C50 47P 100V
C47 33U RAD .2in 16V
R118 10K
U9 3 TL074 8249
N795
FXInGnd
R136 20K0
R142 4K75
R143 1K21
U9 2 TL074 8249
U9 5
C99 100N 50V
C100 100N 50V
R131 10K0
R232 20K0
C102 33U RAD .2in 16V
R132 10K0
R253 10K0
R256 10K0
U9 1 TL074 8249
R252 619R0 1206
N811
R251 10K0
R254 10K0
R163 10K0
R243 10K0
U10 2 TL074 8249
R161 10K0
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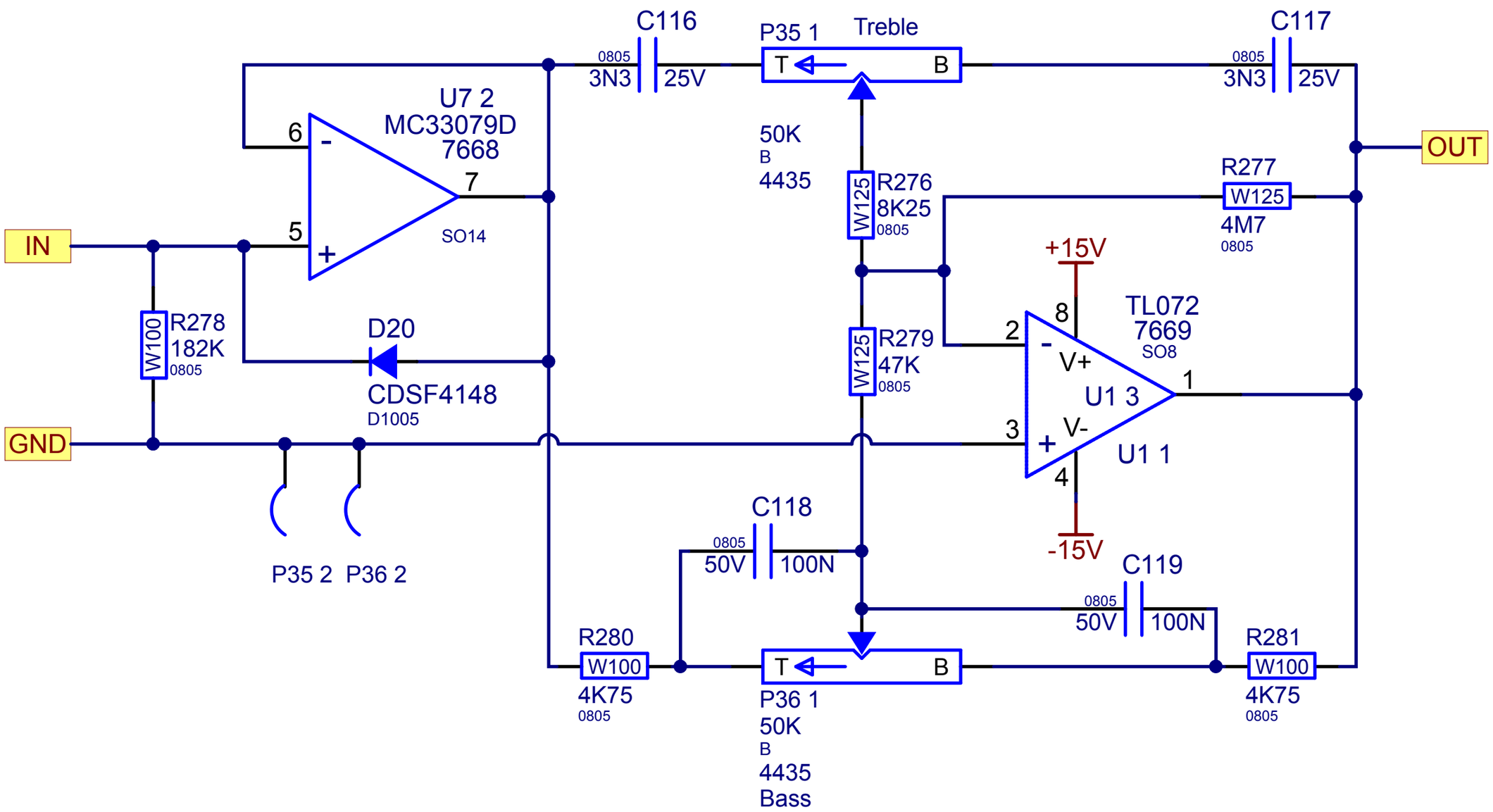
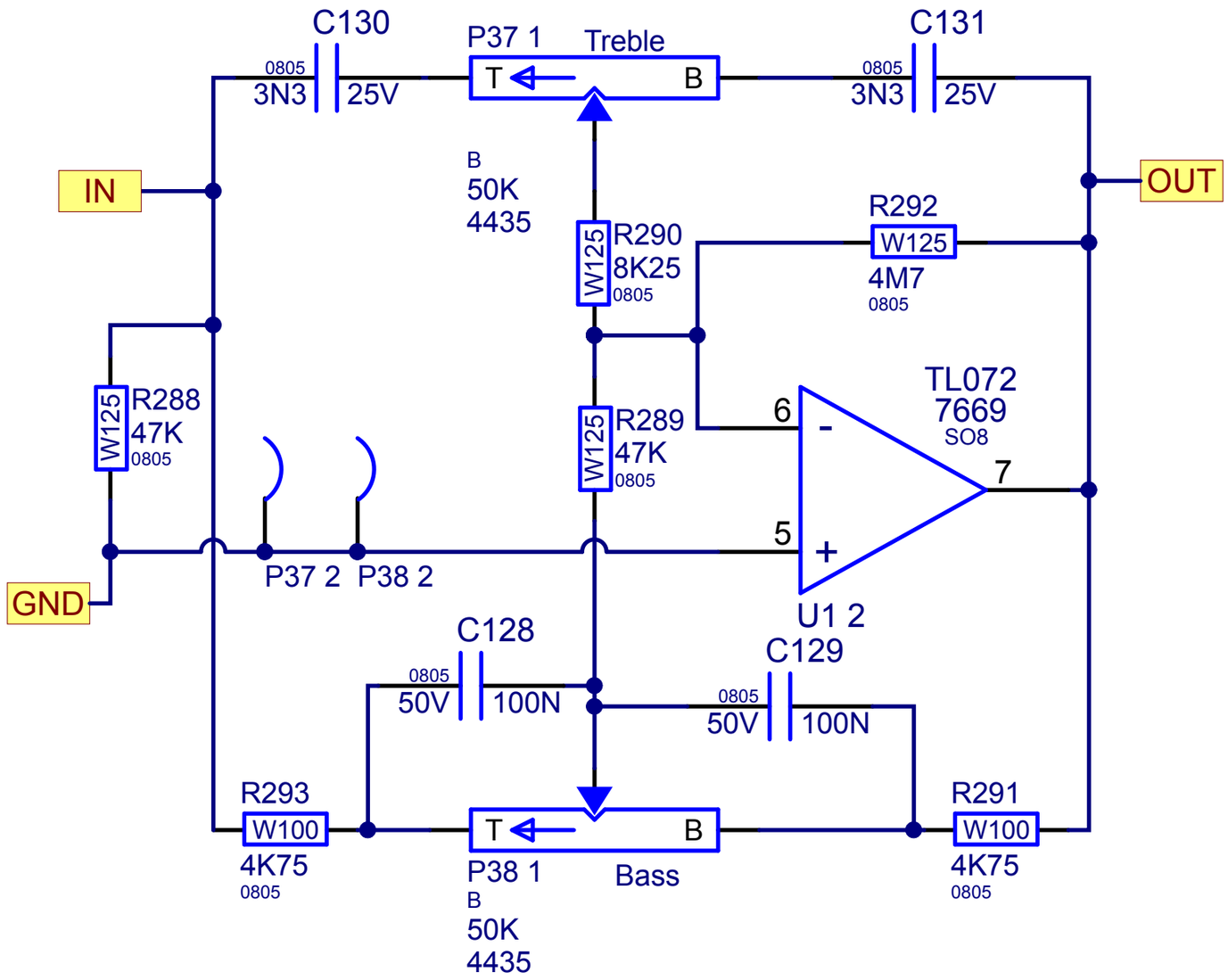
Product
M1610 / M810.
Master.SCHDOC
PCB# M1189
Sheet 7
Date: 2021-09-23
Rev:v7.00
YsType:1032
Filename: Master.SCHDOC



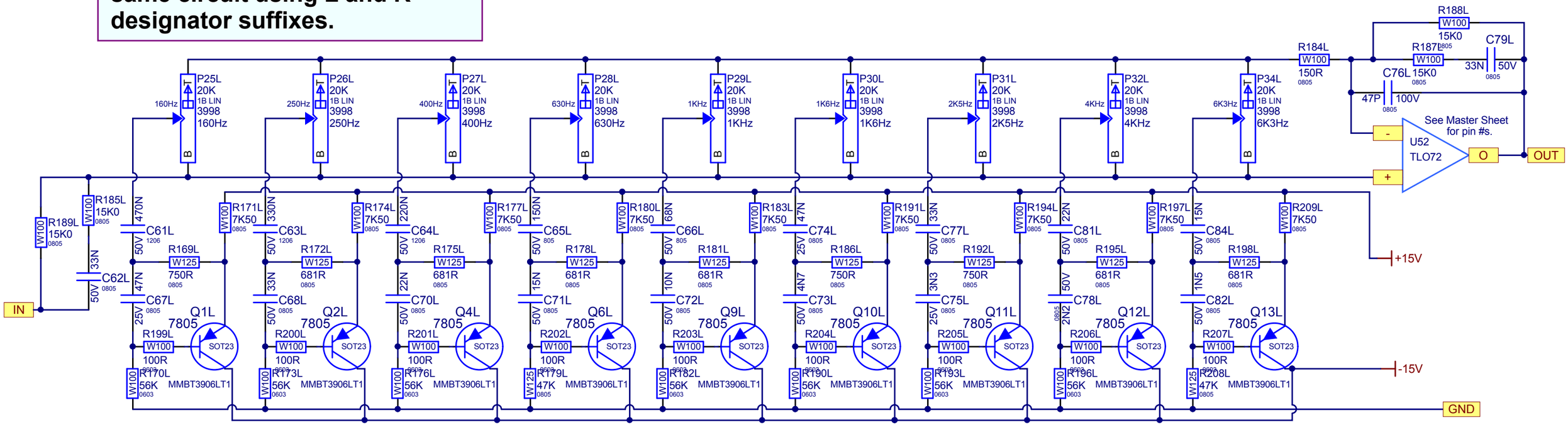
Section: **Tone - Left**			
Product(s): **M1610-2-M810-2**			
PCB#:M1188	Rev#:V01	EML Rev#: 01	Sheet 8
Modified: 2021-09-27	File: TONE1.SCHDOC		Tmp Rev: V031



Yorkville

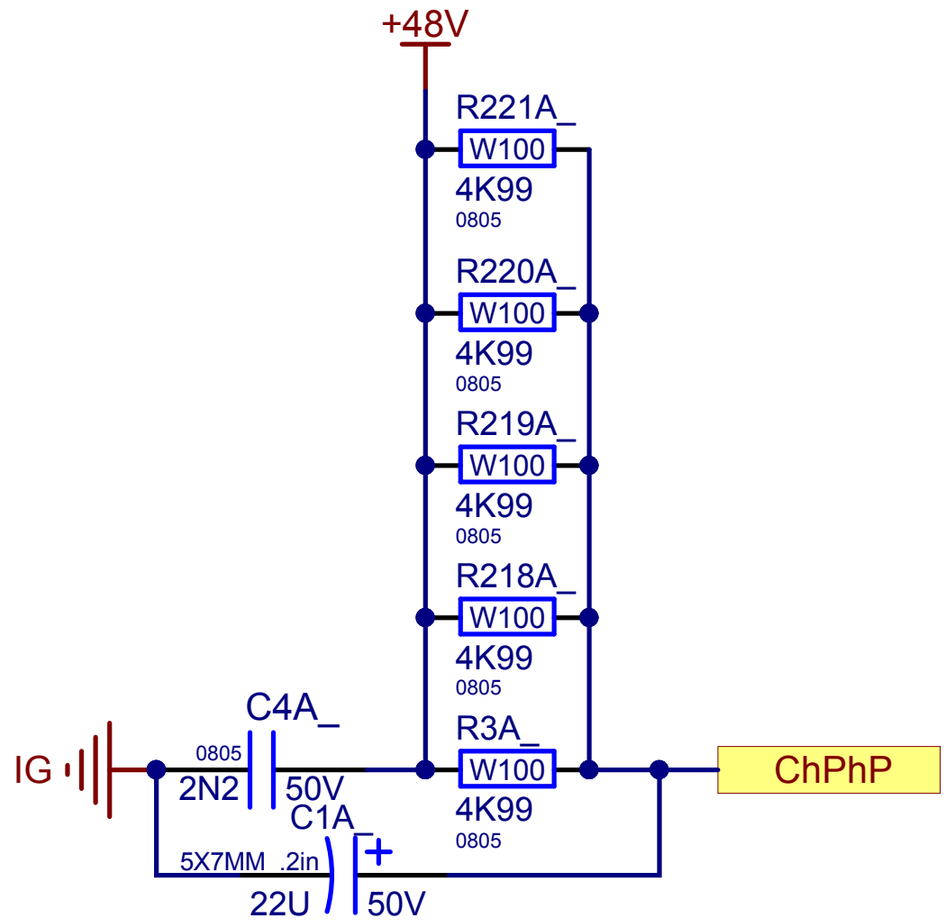
Section: Tone - Right			
Product(s): M1610-2-M810-2			
PCB#: M1188	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 14 **Of** 22
Modified: 2021-09-27	**File:** TONE2.SCHDOC		**Tmp Rev:** V031

Only one EQ Channel is shown. Left and Right employ the same circuit using L and R designator suffixes.



Yorkville

Section: Graphic EQ L&R				
Product(s): M1610-2-M810-2				
PCB#: M118	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 10	
Modified: 2021-09-27	**File:** EQ.SCHDOC		**Tmp Rev:** V031	



Only one circuit is shown.
Each pair of Channels shares one of this circuit.
A_ parts for Ch A&B,
C_ parts for Ch C&D ect.

Yorkville

Section: Phantom Pwr Filter			
Product(s): M1610-2-M810-2			
PCB#: M1188	Rev#: V01	EML Rev#: 01	Sheet 11
Modified: 2021-09-27	File: PhantomFilter.SchDoc		Tmp Rev: V031

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	15-DEC-2016	V01	.	Release for Production
2	.	.	.	.
3	.	.	.	.
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P25-34 L&R	Graphic EQ	3998	S04	N/A
P1A,1B,1C,1D,1E,1F	Trim	4443	P32	9915
P9G,9H (Monitor sends on stereo channels)	Mon	4443	P32	9917
P5A,5B,5C,5D,5E,5F	Level	4432	P32	9920
P15G,15H,6A,6B,6C,6D,6E,6F	EFX	4433	P32	9918
P7A,7B,7C,7D,7E,7F (Monitor sends on mono channels)	Mon	4433	P32	9917
P3A-F,4A-F (Hi / Mid on mono channels)	Hi, Mid	4434	P32	9916
P16G,16H, 8A-F	Bal, Pan	4434	P32	9919
P2A,2B,2C,2D,2E,2F (Lo on mono channels)	Lo	4435	P32	9916
P35,36,37,38	Graphic EQ Lo, Hi	4435	P32	9916
P21	Rec Out	4441	P34	9920
P20	MAIN EFX Return	4437	P34	9920
.	.	.	.	.
P13G,13H,14G,14H (Hi / Mid on stereo channels)	Hi, Mid	4438	P34	9916
P12G,12H (Lo on stereo channels)	Lo	4439	P34	9916
P11FX	EFX Select	6587	P23	8397
P23	Tape/CD	4437	P34	9915
P18 (Master monitor send)	MON	4426	P34	9917
P19	MON EFX Return	4433	P32	9917
P17 (L&R master level)	MAIN	4447	P34	9920
P12FX	MODIFY EFX	4434	P32	9918
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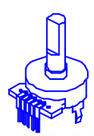
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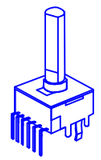
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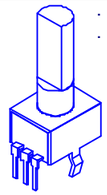
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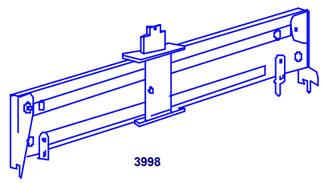
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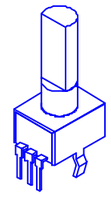
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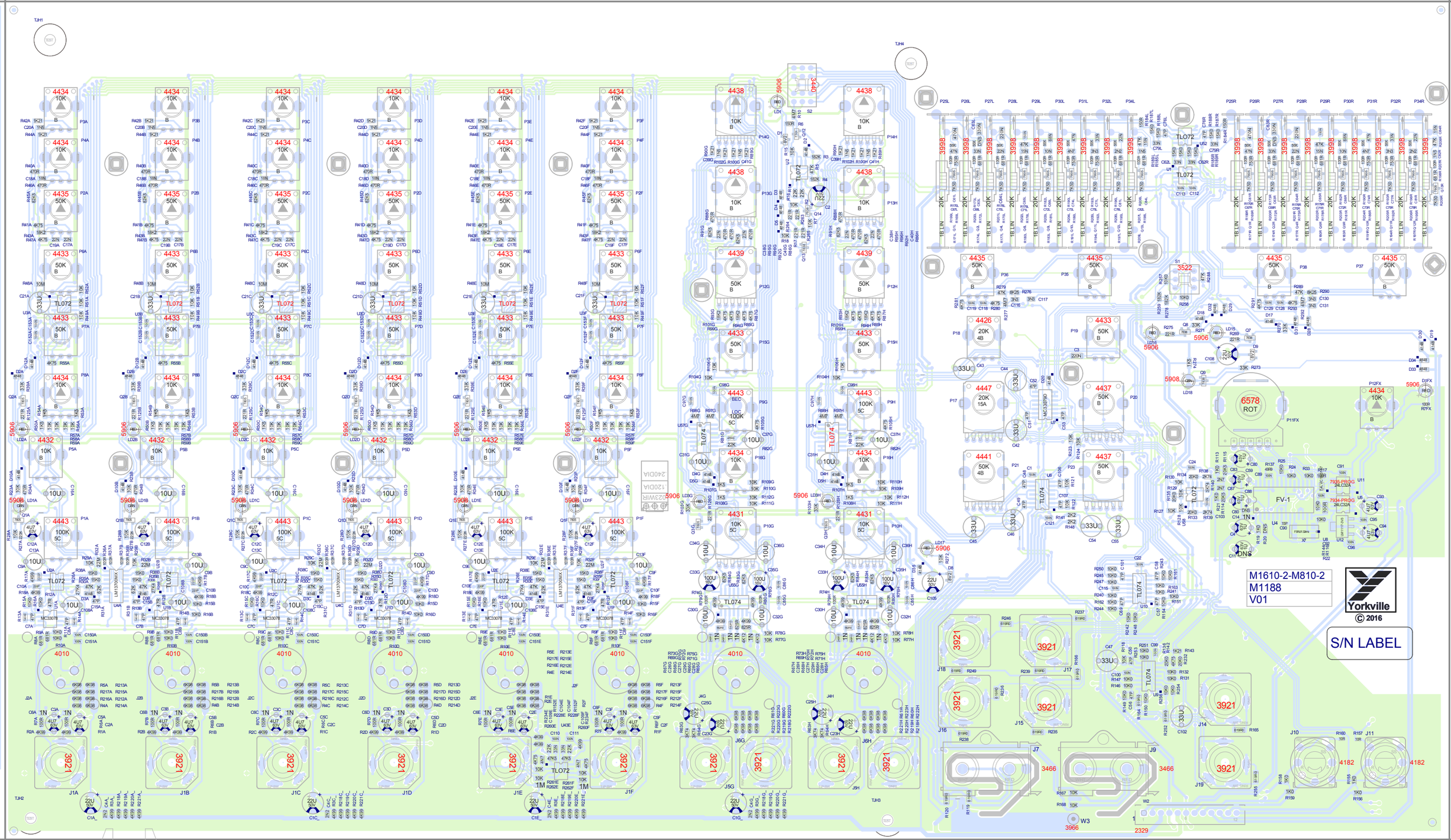
THIS SHEET CONTAINS A CHANGE HISTORY LOG,
A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History			
Product(s):	M1610-2-M810-2			
PCB#: M1188	Rev#: V01	EML Rev#: 01	Sheet 12	
Modified: 2021-09-27	File: History.SchDoc		Tmp Rev: V031	

Into Wave

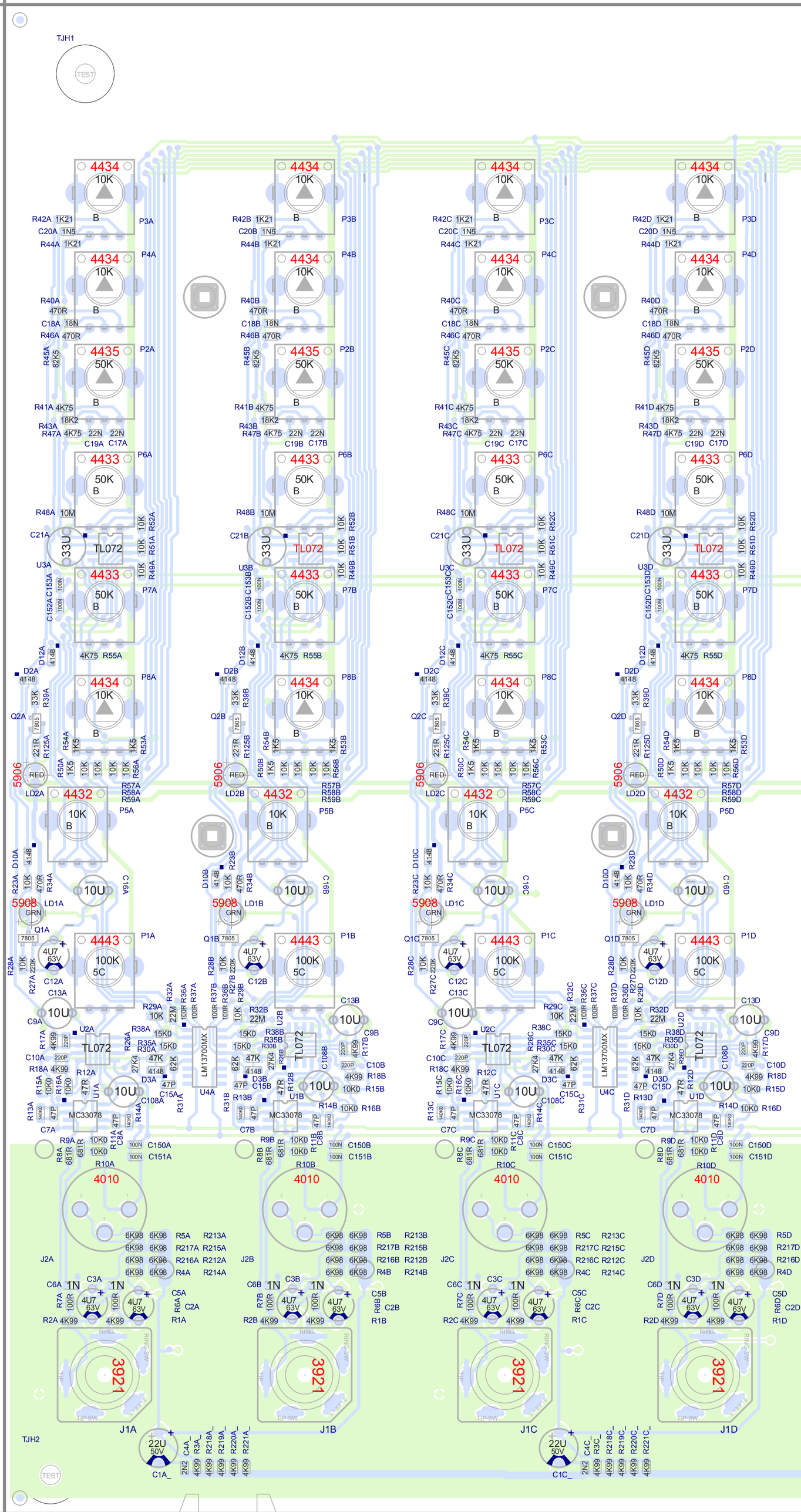
BlankSi e - 454.66mm 274.32mm



M1188 V01 M1610-2-M810-2

VCD

CLINCH ORIGIN


TJH1
TEST
4434
10K
B
P3A
P4A
P3B
P4B
P3C
P4C
P3D
P4D
R42A 1K21
C20A 1N5
R44A 1K21
R40A 470R
C18A 18N
R46A 470R
4435
50K
P2A
P2B
P2C
P2D
R45A 82K5
R41A 4K75
18K2
R43A
R47A 4K75 22N 22N
C19A C17A
4433
50K
P6A
P6B
P6C
P6D
R48A 10M
C21A
33U
TL072
U3A
P7A
P7B
P7C
P7D
C152A C153A 100N 100N
4K75 R55A
D12A 4148
D2A 4148
4434
P8A
P8B
P8C
P8D
Q2A 7805
33K R39A
221R R125A
R54A 1K5
R50A 10K
RED
5906
LD2A
4432
P5A
P5B
P5C
P5D
R57A R58A R59A
D10A 4148
R23A 10K
470R R34A
C16A
10U
5908
LD1A
GRN
Q1A 7805
4443
100K
5C
P1A
P1B
P1C
P1D
4U7 63V
C12A
C13A
C9A
R28A 10K
R27A 220K
R29A 10K
R32A 22M
100R R36A
100R R37A
U2A
TL072
R17A 4K99
220P
C10A
R18A 4K99
R12A
R15A 10K0
R16A 10K0
47R U1A
R26A
R35A 15K0
R30A 15K0
47K
62K
27K4
4148
D3A
47P C15A
C108A
LM13700MX
U4A
R31A
R13A 140K0
47P
MC33078
R14A
C7A
R9A 10K0
681R R8A
R11A 10K0
C8A
100N C150A
100N C151A
R10A
4010
J2A
6K98 R5A
6K98 R217A
6K98 R216A
6K98 R4A
R213A
R215A
R212A
R214A
C6A 1N
C3A 1N
100R R7A
4K99 R2A
C5A
R6A
C2A
R1A
RING
TIP
RING-SW
TIP-SW
3921
J1A
TJH2
22U 50V
C1A_
2N2 C4A_
R3A_
R218A_
R219A_
R220A_
R221A_
R5B
R213B
R217B
R215B
R216B
R212B
R4B
R214B
C6B
C3B
C5B
R6B
C2B
R1B
J1B
R5C
R213C
R217C
R215C
R216C
R212C
R4C
R214C
C6C
C3C
C5C
R6C
C2C
R1C
J1C
C1C_
R5D
R217D
R216D
R212D
R4D
R214D
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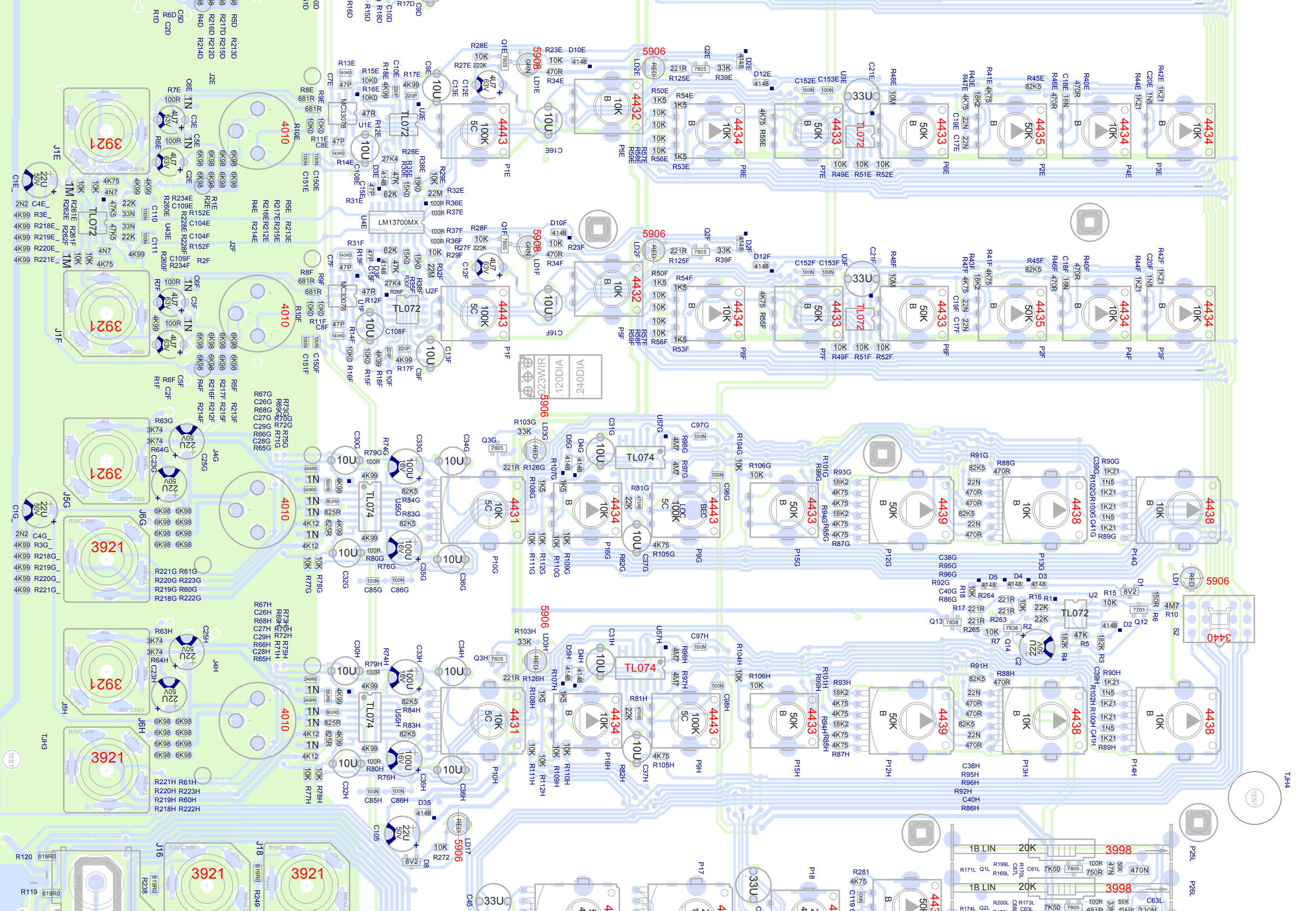
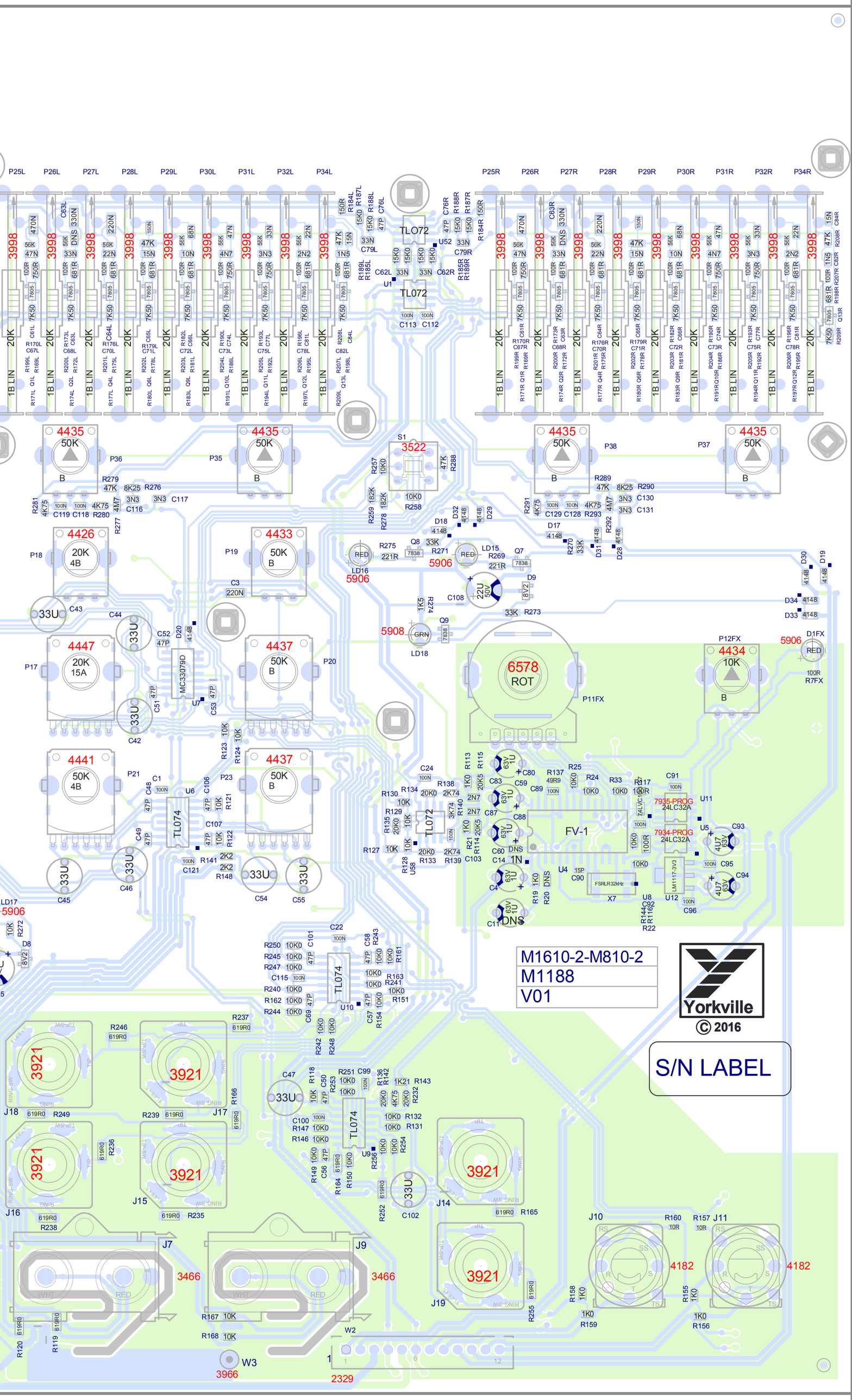
C3D
C5D
R6D
C2D
R1D
J1D


TL072
TL074
LM13700MX
MC33078
4010
3921
3440
4431
4432
4433
4434
4435
4438
4439
5906
3998
1B LIN
20K
.923WIR
.120DIA
.240DIA


M1610-2-M810-2
M1188
V01
Yorkville
© 2016
S/N LABEL
FV-1
7935-PROG
24LC32A
7934-PROG
24LC32A
6578
ROT
TL074
MC33079D
TLO72
LM1117-3V3
FSRLR32kHz
3921
3466
4182
2329
3966

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. Wave solder jig MUST be used at all times for proper component alignment.

PCB HARDWARE

SCREWS AND BOLTS	*NUTS*	*STANDOFFS*	*MISCELLANEOUS*

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

Yorkville

Section: **Assembly Documentation**			
Product(s): **M1610-2-M810-2**			
PCB#: M1188	*Rev#:* V01	*EML Rev#:* 01	*Sheet* 3 *Of* 4
Modified: 2021-09-27	*File:* Assembly.SchDoc		*Tmp Rev:* V031

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	15-DEC-2016	V01	.	Release for Production
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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#
P25-34 L&R	Graphic EQ	3998	S04	N/A
P1A,1B,1C,1D,1E,1F	Trim	4443	P32	9915
P9G,9H (Monitor sends on stereo channels)	Mon	4443	P32	9917
P5A,5B,5C,5D,5E,5F	Level	4432	P32	9920
P15G,15H,6A,6B,6C,6D,6E,6F	EFX	4433	P32	9918
P7A,7B,7C,7D,7E,7F (Monitor sends on mono channels)	Mon	4433	P32	9917
P3A-F,4A-F (Hi / Mid on mono channels)	Hi, Mid	4434	P32	9916
P16G,16H, 8A-F	Bal, Pan	4434	P32	9919
P2A,2B,2C,2D,2E,2F (Lo on mono channels)	Lo	4435	P32	9916
P35,36,37,38	Graphic EQ Lo, Hi	4435	P32	9916
P21	Rec Out	4441	P34	9920
P20	MAIN EFX Return	4437	P34	9920
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P13G,13H,14G,14H (Hi / Mid on stereo channels)	Hi, Mid	4438	P34	9916
P12G,12H (Lo on stereo channels)	Lo	4439	P34	9916
P11FX	EFX Select	6587	P23	8397
P23	Tape/CD	4437	P34	9915
P18 (Master monitor send)	MON	4426	P34	9917
P19	MON EFX Return	4433	P32	9917
P17 (L&R master level)	MAIN	4447	P34	9920
P12FX	MODIFY EFX	4434	P32	9918
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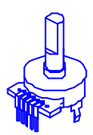
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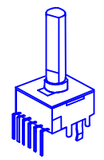
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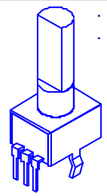
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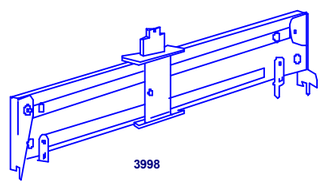
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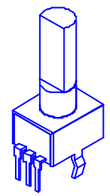
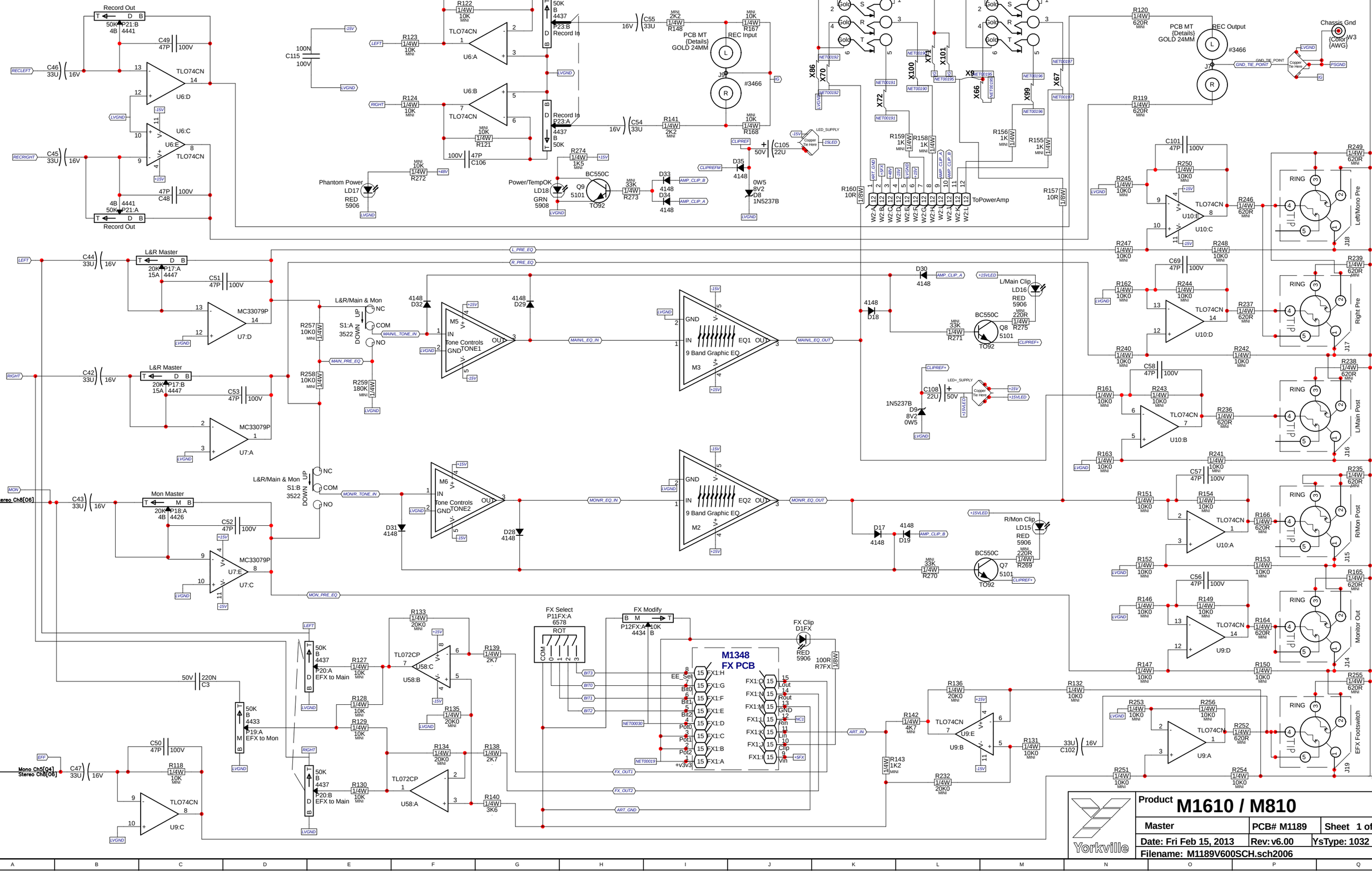

"STYLE_P32"

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):	M1610-2-M810-2			
PCB#: M1188	Rev#: V01	EML Rev#: 01	Sheet 12 Of 13	
Modified: 2021-09-27	File: History.SchDoc		Tmp Rev: V031	


Record Out
Record Out
L&R Master
L&R Master
Mon Master
L&R/Main & Mon
L&R/Main & Mon
Phantom Power
Power/TempOK
Record In
Record In
REC Input
REC Output
Chassis Gnd
ToPowerAmp
L/Main Clip
R/Mon Clip
FX Select
FX Modify
FX Clip
M1348
FX PCB
9 Band Graphic EQ
Tone Controls
Product
M1610 / M810
Master
PCB# M1189
Sheet 1 of 15
Date: Fri Feb 15, 2013
Rev: v6.00
YsType: 1032
Filename: M1189V600SCH.sch2006
Yorkville

Only Channel 1 is shown. Channels 1 - 4 employ the same circuit.

M1189 POTLIST

MODEL(S):- M1610

REF	FUNCTION	PART#	KNOB	POT STYLE
P25-34 L&R	Graphic EQ	3998	N/A	S04
P1A,1B,1C,1D,1E,1F	Trim	4443	9915	P32
P9G,9H (Monitor sends on stereo channels)	Mon	4443	9917	P32
P5A,5B,5C,5D,5E,5F	Level	4432	9920	P32
P15G,15H,6A,6B,6C,6D,6E,6F	EFX	4433	9918	P32
P7A,7B,7C,7D,7E,7F (Monitor sends on mono channels)	Mon	4433	9917	P32
P3A-F,4A-F (Hi / Mid on mono channels)	Hi, Mid	4434	9916	P32
P16G,16H, 8A-F	Bal, Pan	4434	9919	P32
P2A,2B,2C,2D,2E,2F (Lo on mono channels)	Lo	4435	9916	P32
P35,36,37,38	Graphic EQ Lo, Hi	4435	9916	P32
P21	Rec Out	4437	9920	P34
P20	MAIN EFX Return	4437	9920	P34
P13G,13H,14G,14H (Hi / Mid on stereo channels)	Hi, Mid	4438	9916	P34
P12G,12H (Lo on stereo channels)	Lo	4439	9916	P34
P11FX	EFX Select	6587	8398	P23
P23	Tape/CD	4437	9915	P34
P18 (Master monitor send)	MON	4426	9917	P34
P19	MON EFX Return	4433	9917	P32
P17 (L&R master level)	MAIN	4447	9920	P34
P12FX	MODIFY EFX	4434	9918	P32

M1189 HISTORY

MODEL(S):- M810/M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	31 Dec, 2003	v1.00p3	Moved D3 anode to cathode of LD1
2	2 Feb, 2004	1.00	Change break mute flash rate
3	17 Feb, 2004	1.01	Move C7a-f, R13a-f to make room for AA series xlr.
4	D	V	Change hole sizes for AA series xlr.
5	D	V	Changed U1FX SRAM to 32kX8
6	24 Feb, 2004	1.02	Changed 3925 XLRs to 4010 AA series
7	7-APR-2004	2.00	PC#6675 Moved C150(A,C,E) to avoid hitting ICs
8	D	V	Removed routing from board - slots done on drill now
9	15-APR-2004	2.00	PC#6677 Chg X41 to C3(220n 50V), set gerber
10	D	V	so TIE4 gets output properly
11	D	V	PC#6679 Chg. C21(A,B,C,D,E,F) from 470nF to 33uF
12	6-MAY-2004	2.00	PC#6686 MOVED C23FX AWAY FROM SPACER
13	Aug 4, 2004	2.00	Fixed silk screen on U6FX and U2FX
1	AUG-16-2004	2.10	PC#6718 CHANGE R140 TO 10K0 (6116),
2	D	V	R138&R139 TO 9K09 (6112)
3	NOV-23-2004	.	PC#6771:#3571->#3507 SKT FOR #6993 SRAM (GT)
4	JAN-05-2005	.	GT:PC#6792:P17 FROM 50KB #4441 TO 20KA #4447
5	21 Apr, 2005	2.11	Updated 3921 jacks for clinch.
6	4 Aug 2005	2.20	AH, PC#6816, ADD A HOLE FOR FEEDING GROUND WIRE
7	D	V	N
8	14 JUN 2006	2.30	AH, PC#7091, UPDTAE #5322 CHANGE DRILL SIZE TO 403
9	.	.	PC#6989, STRENTHEN RCA JACK SECTION BREAKAWAY
10	.	.	#4581 UPDATED, PROPER DRILLING ORDER
11	11-JAN-2008	3.00	PC#7325, FORCE UPDATE PARTS FOR NEW PAD TYPE
12	.	.	PC#7330, REMOVE EXTRA PADS FROM U1FX AND U3FX
13	2008/02/20	4.00	New DFX, solder updates, add amp in jacks, link for tie4

1	2008/03/19	5.00	Corrected Amp in jack swap.
2	2008/03/25	.	Added copper pour to encoder and pot legs. Rotated thief pads on stereo channel pots.
3	.	.	
4	2008/04/18	.	Added scoring tooling holes.
5	20080619	.	Changed XLR jacks to minimum outline.
6	2009/09/18	6.00	PC#7868 - changed to standoff nuts. Add X102.
7	2009/09/24	6.00	PC#7876 - Ribbon cable change. Modified some pads on dual pots to prevent solder bridging. D1-->25mil
8	.	.	
9	.	.	PC#7878 - Make ampin jack breakouts smaller.
10	2013/02/15	.	Fixed Pots List. - ML
11	D	V	N
12	D	V	N
13	D	V	N

M1189 DRILL HISTORY

MODEL(S):- M810/M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	24-FEB-2004	V01	N
2	21-APR-2005	V02	N
3	4-AUG-2005	V03	PC#6818, ADDING A HOLE FOR FEEDING GREEN GND
4	2008/02/20	V04	N
5	2008/04/18	V05	N
6	D	V	N

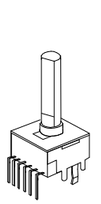
M1189 PENDING CHANGES

MODEL(S):- M1610

#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

"STYLE_P23"



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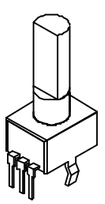

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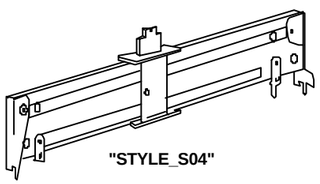

"STYLE_S04"

2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63

BC550C
BC560C

C B E
TO-92

E B C
TO-92

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Product M1610 / M810

Mono Ch1	PCB# M1189	Sheet 2 of 15
Date: Fri Feb 15, 2013	Rev: v6.00	YsType: 1032
Filename: M1189V600SCH.sch2006		

Only Channel 5 is shown.
Channels 5 & 6 employ the same circuit.

MicIn
J2E
4010
R4E 10K0 MINI
R5E 10K0 MINI
4U7 C2E 63V
4U7 C3E 63V
R6E 1/8W 100R
R8E 1/8W 681R FLMP
1N C5E 50V
R10E 10K0 MINI
R1E 1/4W 4K99 MINI
R11E 10K0 MINI
R2E 1/4W 4K99 MINI
R7E 1/8W 100R
R9E 1/8W 681R FLMP
1N C6E 50V
+15V
U1E:C
U1E:E
MC33079P
-15V
MINI 133K R13E
C7E 47P 100V
R12E 47R MINI
B M T Trim P1E:A 4443 5C 100K
16V C108E 10U
C8E 47P 100V
R14E 1/4W 133K MINI
MC33079P
U1E:D
R15E 1/4W 10K0 MINI
R16E 1/4W 10K0 MINI
C9E 220P 100V
R17E 1/4W 4K99 MINI
R18E 1/4W 4K99 MINI
C10E 220P 100V
LVGND
TLO74CN
U2E:D
D2E 4148
10U C13E 16V
MINI 27K R26E
U2E:C
U2E:E
TLO74CN
4148 D3E
16V 10U C16E
MINI 10K R23E
R28E 1/4W 10K MINI
BC560C Q1E 5102 TO92
LVGND
63V C12E 4U7
R27E 1/4W 220K MINI
Act LD1E GRN 5908
MINI 10K R29E
R34E 1/4W 470R MINI
-15LED RED 5906
CLIPREFM
BC560C Q2E 5102 TO92
MINI 33K R39E
R125E 1/4W 220R MINI
Clip LD2E
22M R32E
LM13600N U4E:A
U4E:B
MINI 15K R38E
100R 1/8W R36E
100R 1/8W R37E
47P C15E 100V
MINI 62K R31E
R30E 1/4W 47K MINI
MINI 15K R35E
(VCC)
LM13600N U4E:C 6745 Dual VCA Limit
MINI 1K2 R42E
Hi 10K P3E:A 4434
MINI 1K2 R44E
1N5 C20E 200V
R48E 1/4W 8M2 MINI
D10E 4148
18N C18E 100V
RAD 82K 1/4W R45E
MINI 470R 1/4W R40E
B 4434 10K P4E:A
Mid
MINI 470R 1/4W R46E
RAD 18K 1/4W R43E
22N C17E 100V
22N C19E 100V
B 4435 50K P2E:A
Lo
MINI 4K7 1/4W R41E
MINI 4K7 1/4W R47E
NETE00055
TL072CP U3E:C
U3E:B
C21E 33U 16V
R49E 1/4W 10K MINI
10K B 4432 P5E:A Gain
TL072CP U3E:A
R50E 1/4W 1K5 MINI
R51E 1/4W 10K MINI
D12E 4148
NETE00055
R52E 1/4W 10K MINI
50K B 4433 P6E:A EFX
EFF1
EFF
Master[A\B] Stereo CH5[06]
R56E 1/4W 10K MINI
RECLEFT
R57E 1/4W 10K MINI
LEFT+LEFT
R53E 1/4W 1K5 MINI
10K B 4434 P8E:A Pan
R54E 1/4W 1K5 MINI
R58E 1/4W 10K MINI
RIGHT+RIGHT
R59E 1/4W 10K MINI
RECRIGHT
MONI
Mono Ch5[08]
Mono Ch4[08]
Mono Ch3[08]
Mono Ch2[08]
Mono Ch1[N7]
Stereo Ch7[N6]
50K B 4433 P7E:A Mon
R55E 1/4W 4K7 MINI
R25E 1/4W 22K MINI
100V C14E 33N
R24E 1/4W 47K MINI
4N7 C11E 250V
MINI 4K7 1/4W R21E
TL072CP U3E:A
R19E 1/4W 10K MINI
R20E 1/4W 10K MINI
R22E 1M RAD 1/4W
J3E
RING
NETE01
Instrument In
50V C153E 100N
100V C150E 100N
100N C152E 100V
100N C151E 100V

Instrument Input - Channels 5&6

Product	**M1610 / M810**
Mono Ch5	PCB# M1189 — Sheet 6 of 15
Date: Fri Feb 15, 2013	Rev: v6.00 — YsType: 1032
Filename: M1189V600SCH.sch2006	

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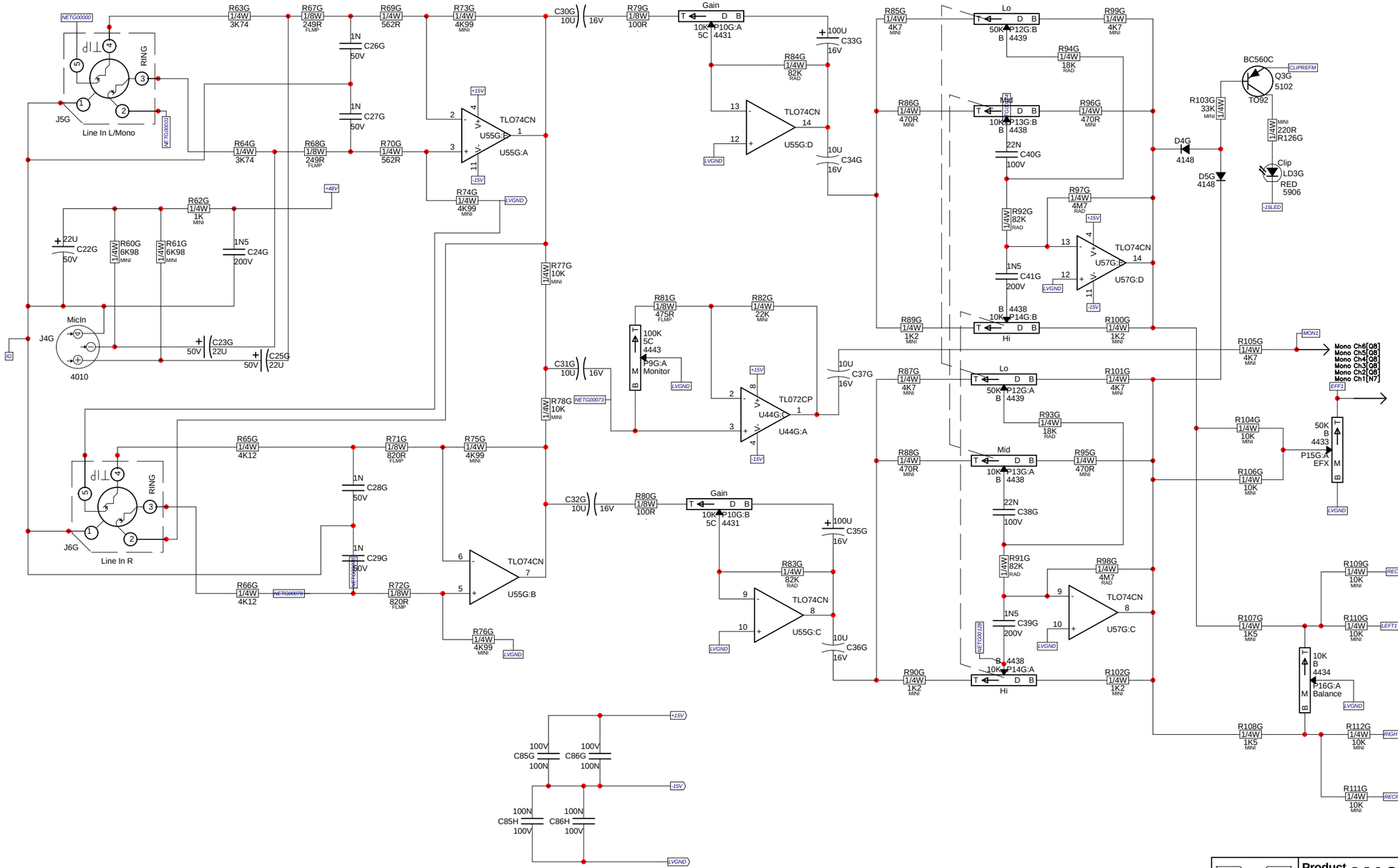
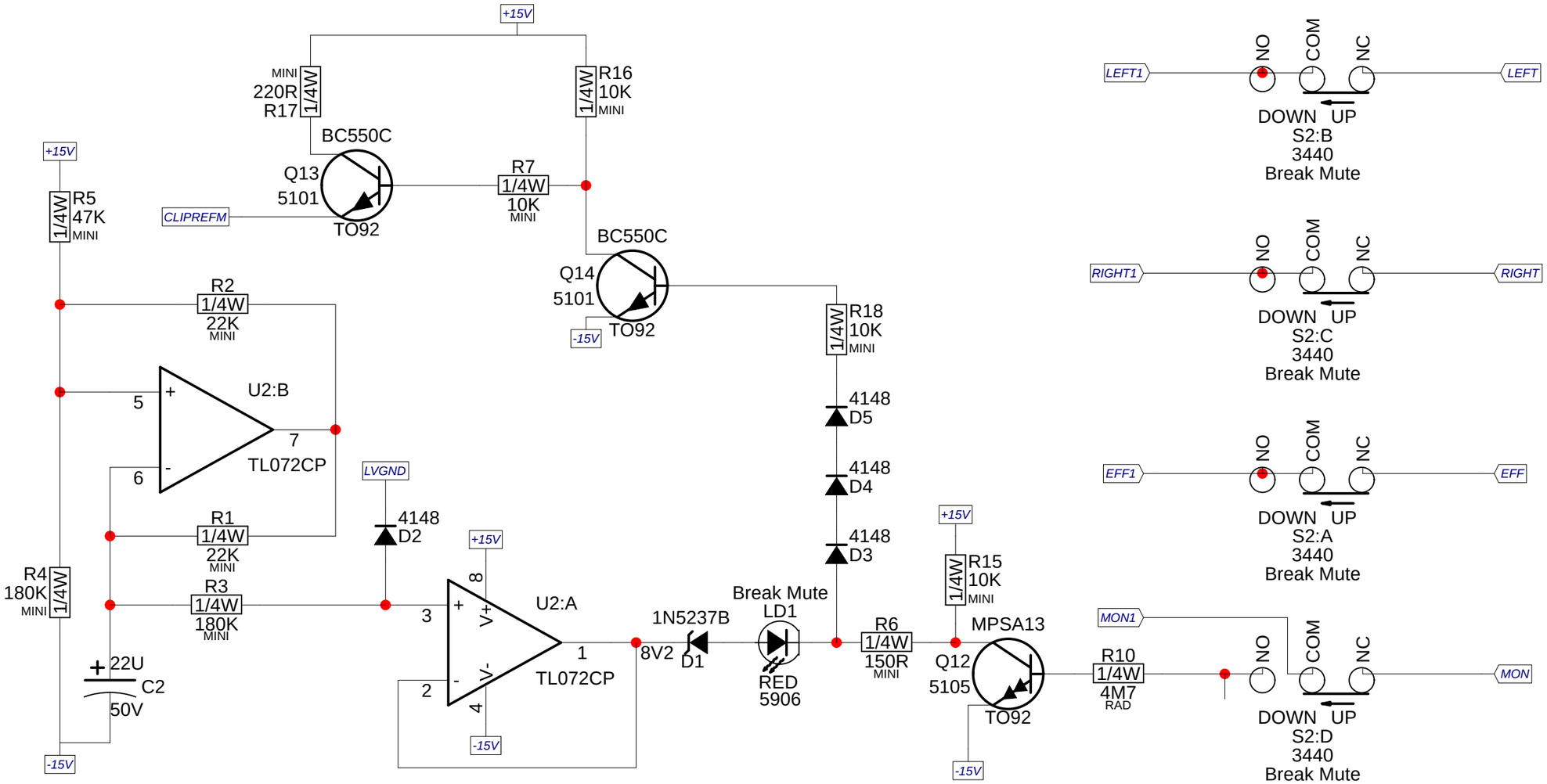
Only channels 7&8 are shown.
Channels 9&10 employ
the same circuit.



Yorkville	Product **M1610 / M810**		
	Stereo Ch7	PCB# M1189	Sheet 8 of 15
	Date: Fri Feb 15, 2013	Rev: v6.00	YsType: 1032
	Filename: M1189V600SCH.sch2006		



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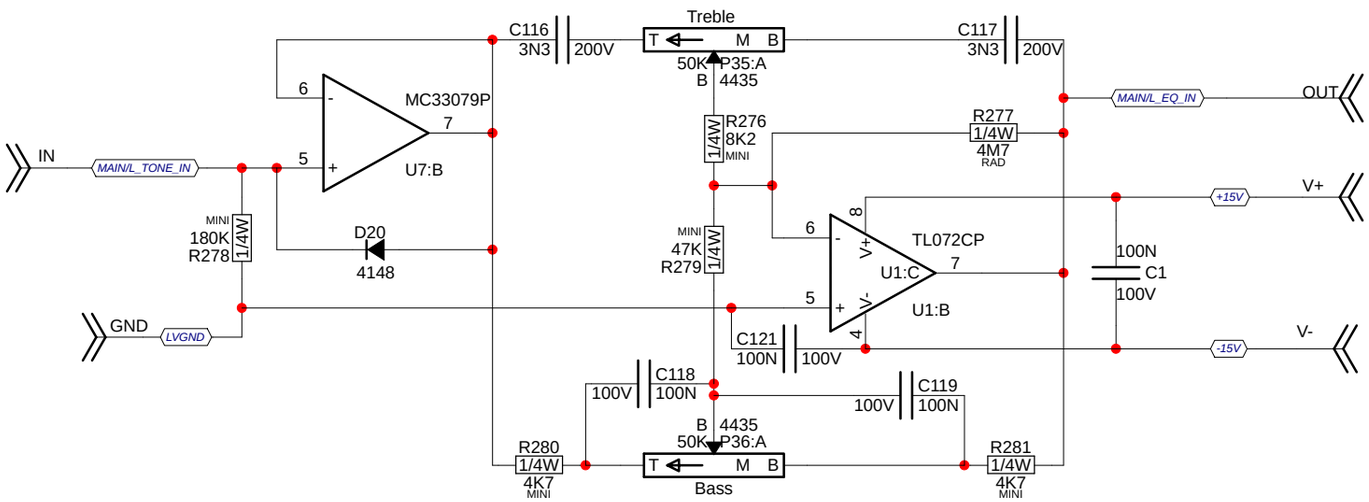
Product **M1610 / M810**

BreakMute	PCB# M1189	Sheet 10 of 15
Date: Fri Feb 15, 2013	Rev:v6.00	YsType: 1032
Filename: M1189V600SCH.sch2006		



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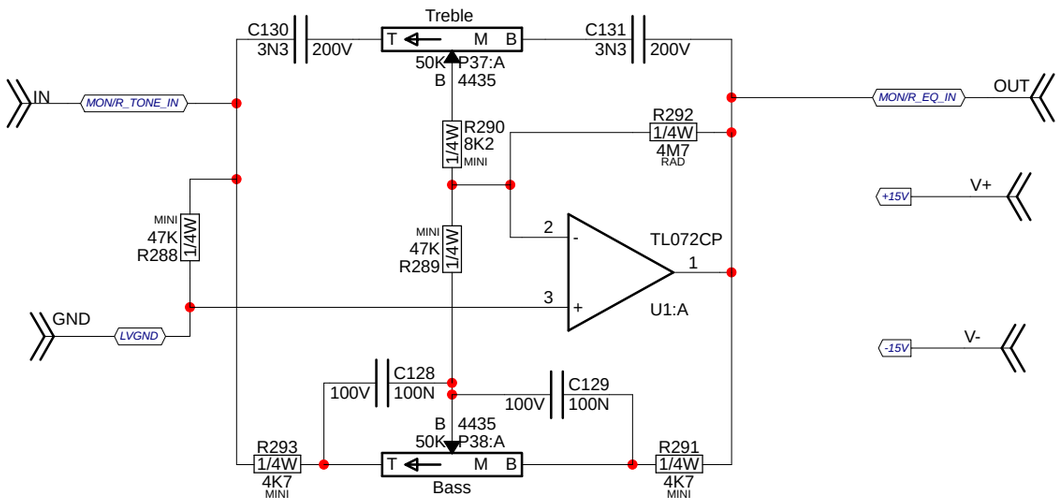
Product **M1610 / M810**		
TONE1	**PCB# M1189**	**Sheet 11 of 15**
Date: Fri Feb 15, 2013	**Rev: v6.00**	**YsType: 1032**
Filename: M1189V600SCH.sch2006		



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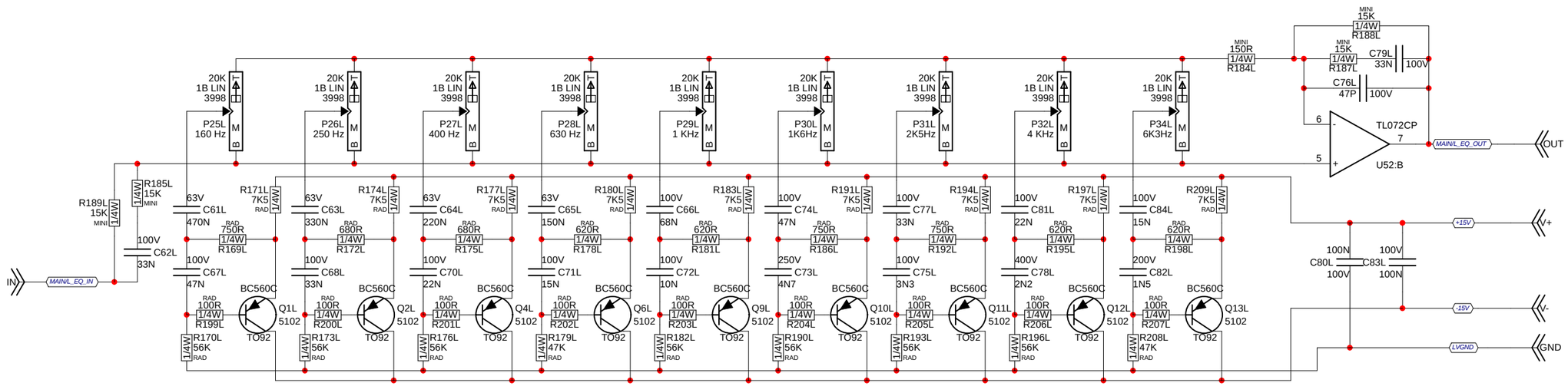
Product **M1610 / M810**			
TONE2	PCB# M1189	Sheet 12 of 15	
Date: Fri Feb 15, 2013	Rev: v6.00	YsType: 1032	
Filename: M1189V600SCH.sch2006			



Yorkville	Product **M1610 / M810**		
	EQ1	PCB# M1189	Sheet 13 of 15
	Date: Fri Feb 15, 2013	Rev: v6.00	YsType: 1032
	Filename: M1189V600SCH.sch2006		

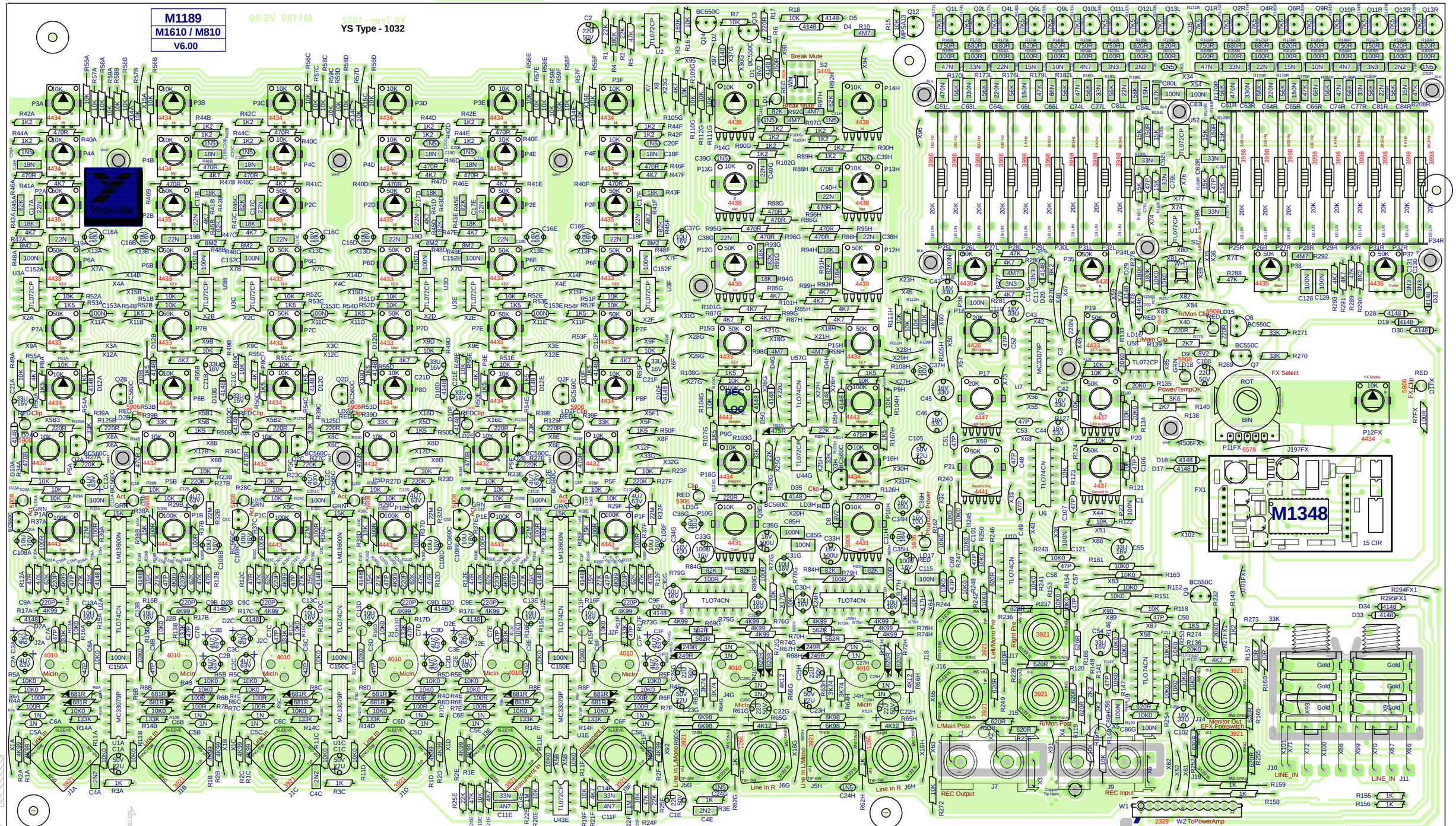
Pcb Mech M1189 V6.00
Top Assy M1189 V6.00

Wave Solder ---------->

M1189
M1610 / M810
V6.00

YS Type - 1032

BlankSize - 17900x10750



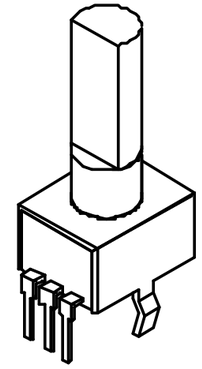
SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

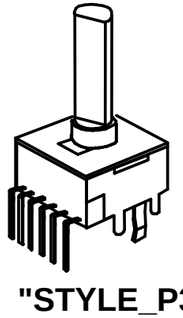
M1189 PRODUCTION NOTES

1. PCBSA: BREAK OUT BOARD BEFORE TESTING.

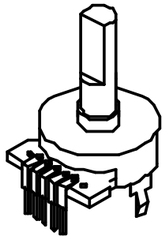
M1189 POTLIST				
MODEL(S):-	M1610			
REF	FUNCTION	PART#	KNOB	POT STYLE
P25-34 L&R	Graphic EQ	3998	N/A	S04
P1A,1B,1C,1D,1E,1F	Trim	4443	9915	P32
P9G,9H (Monitor sends on stereo channels)	Mon	4443	9917	P32
P5A,5B,5C,5D,5E,5F	Level	4432	9920	P32
P15G,15H,6A,6B,6C,6D,6E,6F	EFX	4433	9918	P32
P7A,7B,7C,7D,7E,7F (Monitor sends on mono channels)	Mon	4433	9917	P32
P3A-F,4A-F (Hi / Mid on mono channels)	Hi, Mid	4434	9916	P32
P16G,16H, 8A-F	Bal, Pan	4434	9919	P32
P2A,2B,2C,2D,2E,2F (Lo on mono channels)	Lo	4435	9916	P32
P35,36,37,38	Graphic EQ Lo, Hi	4435	9916	P32
P21	Rec Out	4441	9920	P34
P20	MAIN EFX Return	4437	9920	P34
P13G,13H,14G,14H (Hi / Mid on stereo channels)	Hi, Mid	4438	9916	P34
P12G,12H (Lo on stereo channels)	Lo	4439	9916	P34
P11FX	EFX Select	6587	8398	P23
P23	Tape/CD	4437	9915	P34
P18 (Master monitor send)	MON	4426	9917	P34
P19	MON EFX Return	4433	9917	P32
P17 (L&R master level)	MAIN	4447	9920	P34
P12FX	MODIFY EFX	4434	9918	P32



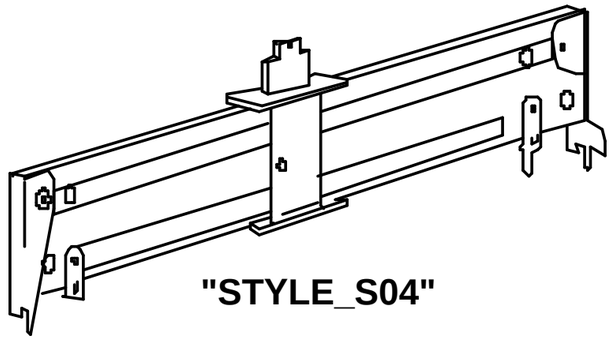
"STYLE_P32"



"STYLE_P34"



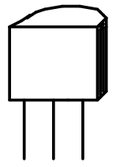
"STYLE_P23"



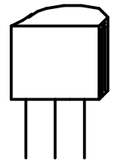
"STYLE_S04"

2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63

BC550C
BC560C



C B E
TO-92



E B C
TO-92

SEE PRODUCT HISTORY

SEE PRODUCTION NOTES

M1189 HISTORY

MODEL(S):- M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	31 Dec, 2003	v1.00p3	Moved D3 anode to cathode of LD1
2	2 Feb, 2004	1.00	Change break mute flash rate
3	17 Feb, 2004	1.01	Move C7a-f, R13a-f to make room for AA series xlr.
4	.	.	Change hole sizes for AA series xlr.
5	.	.	Changed U1FX SRAM to 32kX8
6	24 Feb, 2004	1.02	Changed 3925 XLRs to 4010 AA series
7	7-APR-2004	2.00	PC#6675 Moved C150(A,C,E) to avoid hitting ICs
8			Removed routing from board - slots done on drill now
9	15-APR-2004	2.00	PC#6677 Chg X41 to C3(220n 50V), set gerber
10			so TIE4 gets output properly
11			PC#6679 Chg. C21(A,B,C,D,E,F) from 470nF to 33uF
12	6-MAY-2004	2.00	PC#6686 MOVED C23FX AWAY FROM SPACER
13	Aug 4, 2004	2.00	Fixed silk screen on U6FX and U2FX
1	AUG-16-2004	2.10	PC#6718 CHANGE R140 TO 10K0 (6116),
2	D	V	R138&R139 TO 9K09 (6112)
3	NOV-23-2004	.	PC#6771:#3571->#3507 SKT FOR #6993 SRAM (GT)
4	JAN-05-2005	.	GT:PC#6792:P17 FROM 50KB #4441 TO 20KA #4447
5	21 Apr, 2005	2.11	Updated 3921 jacks for clinch.
6	4 Aug 2005	2.20	AH, PC#6816, ADD A HOLE FOR FEEDING GREEN
7	.	.	GROUND WIRE.
8	14 JUN 2006	2.30	AH, PC#7091, UPDTAE #5322 CHANGE DRILL SIZE TO 40
9	.	.	PC#6989, STRENTHEN RCA JACK SECTION BREAKAWAY
10	.	.	#4581 UPDATED, PROPER DRILLING ORDER
11	11-JAN-2008	3.00	PC#7325, FORCE UPDATE PARTS FOR NEW PAD TYPE
12	.	.	PC#7330, REMOVE EXTRA PADS FROM U1FX AND U3FX
13	2008/02/20	4.00	New DFX, solder updates, add amp in jacks, link for tie4
1	2008/03/19	5.00	Corrected Amp in jack swap.
2	2008/03/25	.	Added copper pour to encoder and pot legs. Rotated thief
3	.	.	pads on stereo channel pots.
4	2008/04/18	.	Added scoring tooling holes.
5	20080619	.	Changed XLR jacks to minimum outline.
6	2009/09/18	6.00	PC#7868 - changed to standoff nuts. Add X102.
7	2009/09/24	6.00	PC#7876 - Ribbon cable change. Modified some pads on
8	.	.	dual pots to prevent solder bridging. D1--> 25MIL
9	.	.	PC#7878 - Make ampin jack breakouts smaller.
10	2013/02/15	.	Fixed Pots List. - ML
11	D	V	N
12	D	V	N
13	D	V	N

M1189 PENDING CHANGES

MODEL(S):- M1610

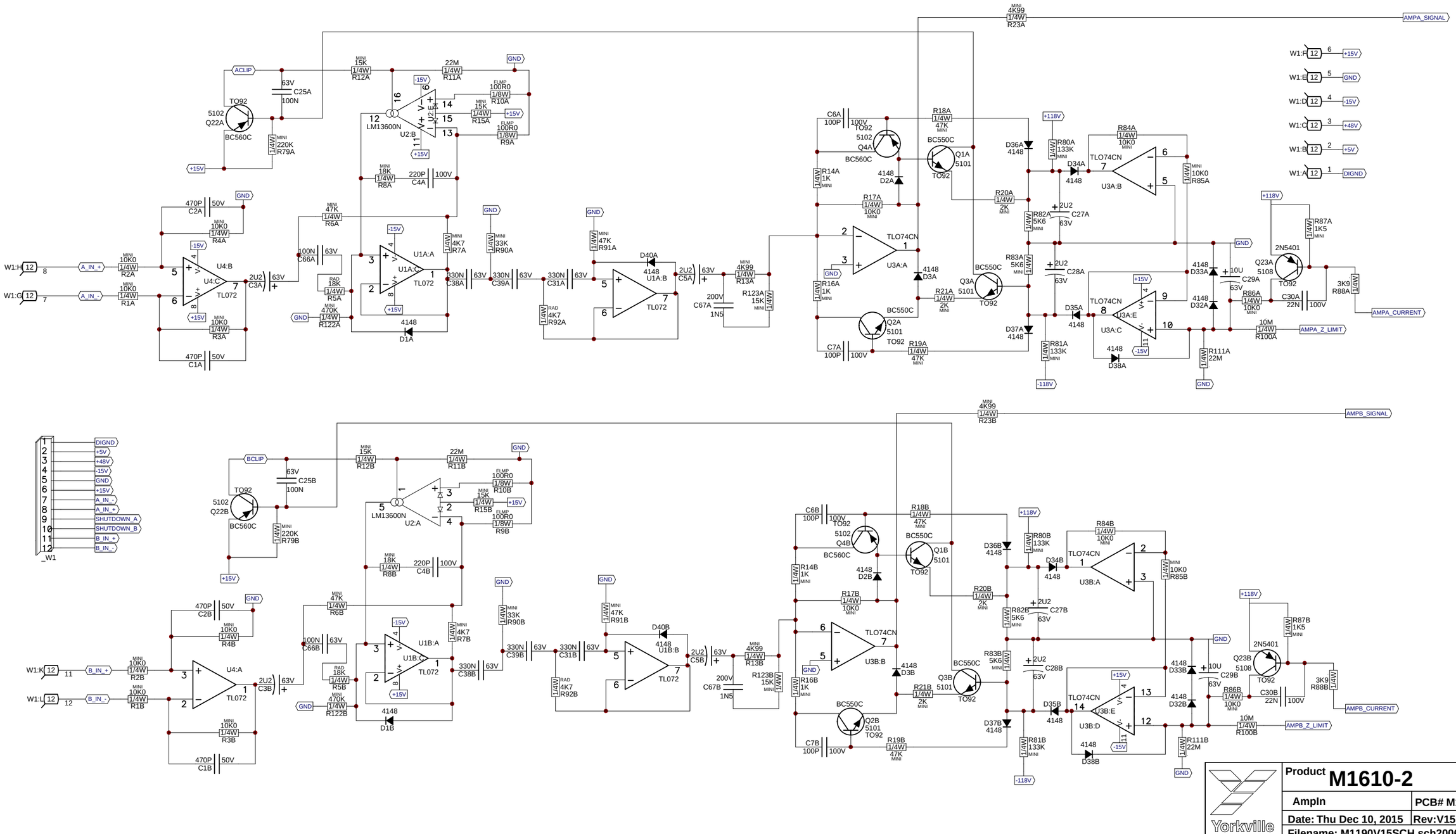
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

M1189 DRILL HISTORY

MODEL(S):- M810/M1610

#	DATE	VER#	DESCRIPTION OF CHANGE
1	24-FEB-2004	V01	N
2	21-APR-2005	V02	N
3	4-AUG-2005	V03	N
4	2008/02/20	V04	N
5	2008/04/18	V05	N
6	D	V	N



Product **M1610-2**			
AmpIn	PCB# M1190	Sheet 1 of 4	
Date: Thu Dec 10, 2015	Rev:V15	YsType:.	
Filename: M1190V15SCH.sch2006			

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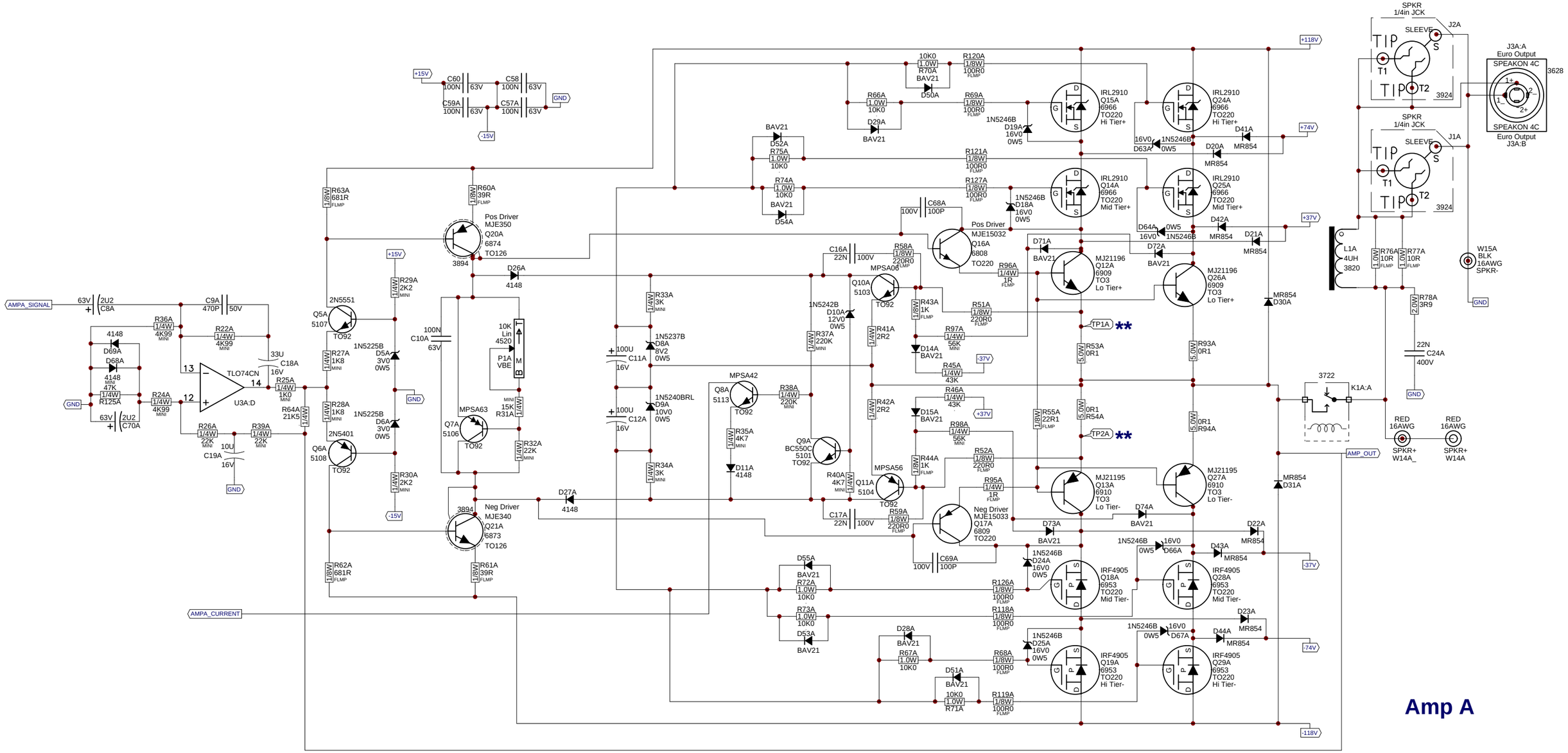

Amp A

**** ADJUST P1A FOR 8mV ACCROSS TP1A AND TP2A.**

Product **M1610-2**		
Channel A	PCB# M1190	Sheet 2 of 4
Date: Thu Dec 10, 2015	Rev:V15	YsType:.
Filename: M1190V15SCH.sch2006		

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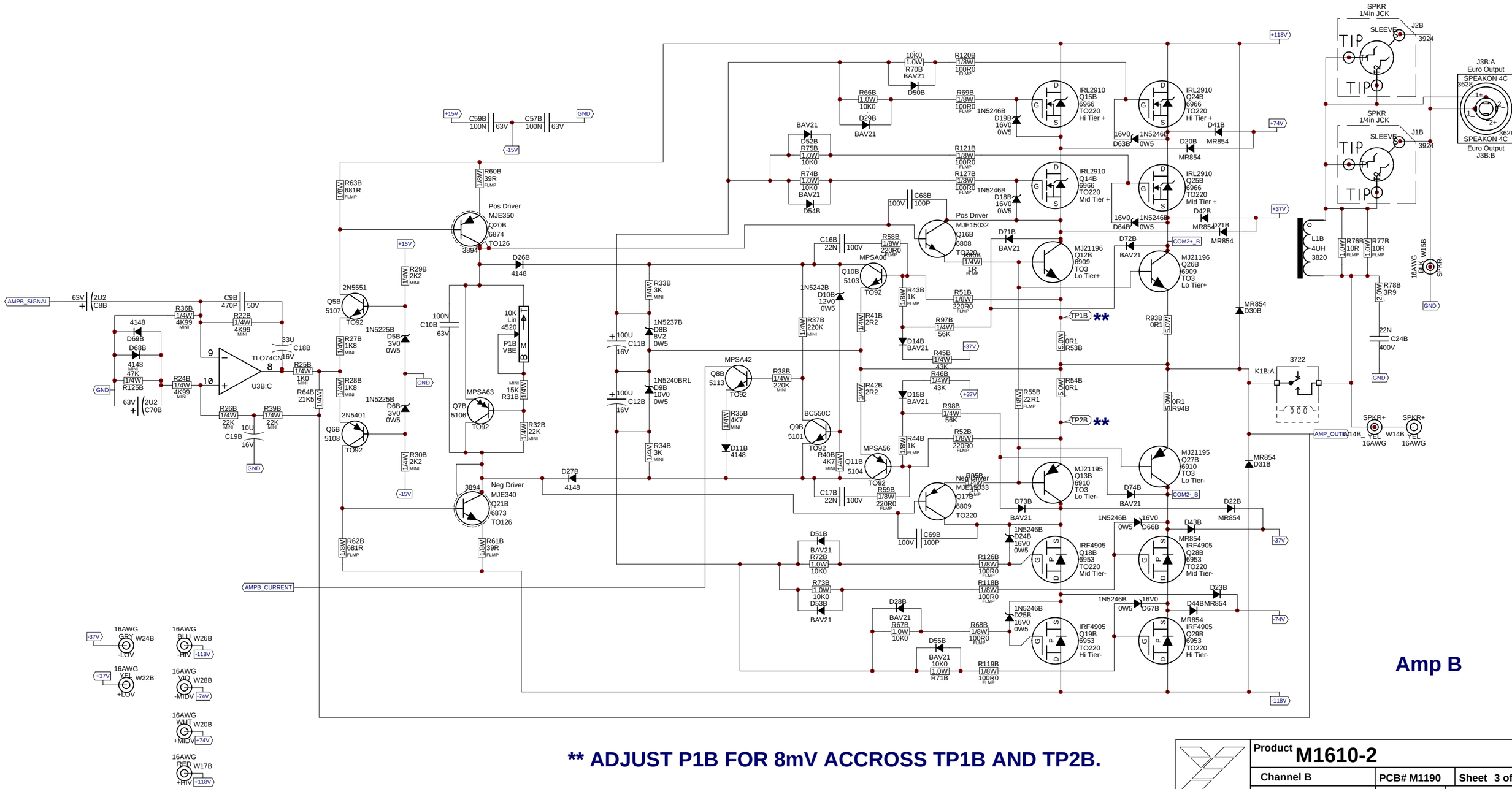

**** ADJUST P1B FOR 8mV ACCROSS TP1B AND TP2B.**

Amp B

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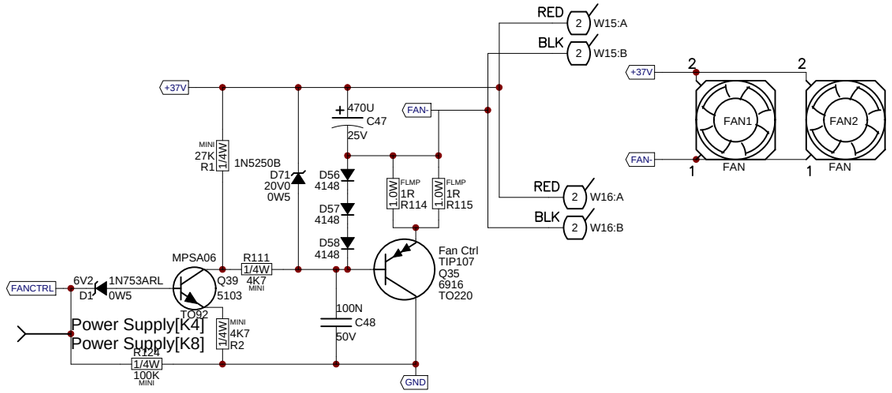
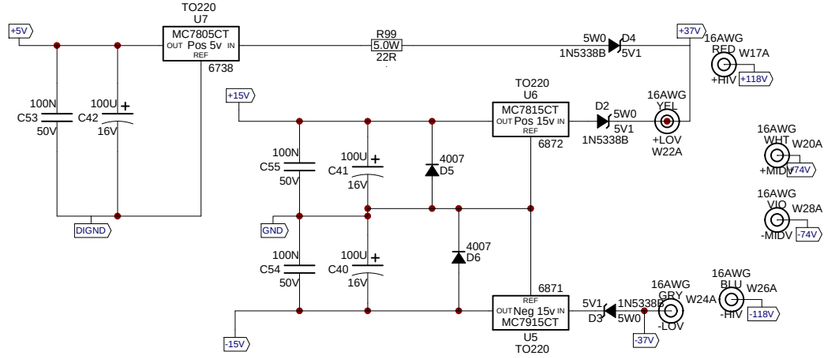
Product **M1610-2**		
Channel B	PCB# M1190	Sheet 3 of 4
Date: Thu Dec 10, 2015	Rev:V15	YsType:.
Filename: M1190V15SCH.sch2006		

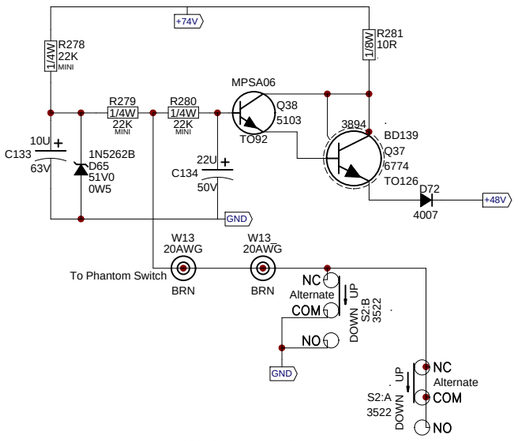
M1190.PCB_DATABASE_HISTORY

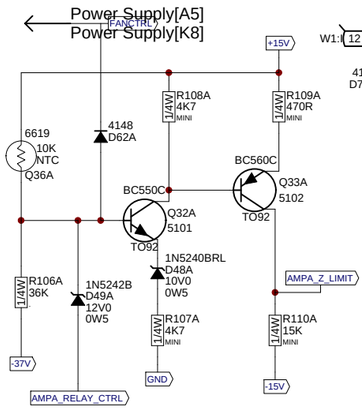
MODEL(S):- M1610

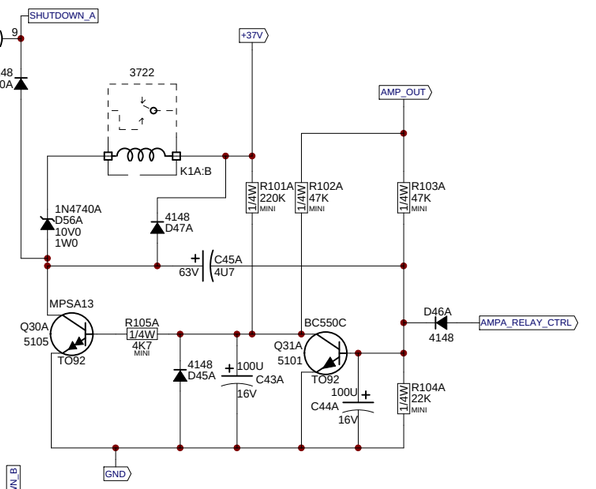
#	DATE	VER#	DESCRIPTION OF CHANGE
1	7 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	21-APR-2004	1.00	PC#6681 Modify route to let grn wire pass board near pot cutout
5	6-MAY-2004	2.00	PC#6684 R83(A,B)->5K6,R5(A,B)6K8->18K,
6	D	V	D16&D17(A,B) 4148->BAT85,R47&R48(A,B)22R1->100R0
7	D	V	ADDED D71, D72
8	DEC-14-2004	3.00	GT:PC#6787: Fixed AC clearance, and W2&W3 tab label
9	FEB-07-2005	4.00	PC#6809 Remove D17,D16,D12,D13, R47,R48,R49,R50,C36
10	D	V	C15 (All A/B) R45,R46 A/B 36K->43K, D10 16V->12V
11	D	V	D9 A/B 14V->10V0, D8 A/B 12V->8V2. ADD R95 A/B
12	D	V	ADD R96 A/B, R97 A/B, R98 A/B, D71 A/B, D72 A/B
13	D	V	D73 A/B, D74 A/B, X1 ,X2 ,X3 ,X4 X5 AND X6
14	MAR-30-2005	5.00	RECREATED MASK LAYER TO FIX TESTPADS
15	MAR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
16	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
17	21 Apr, 2005	5.11	Force update parts to fix pad orientation
18	JUN-08-2005	6.00	PC#6919:GT:MOVED R95B AVOID HEATSINK COLLISION
19	.	.	XFORMER -> CH1302/E, ADDED 2x#4599,SWAPPED W34&W36
20	.	.	W35,R106A&B #6122 33K->#4868 36K, D56A&B #6440
21	.	.	4V7/0.5W->#6484 10V/1W, C32&C33 #5903 12000UF/35V->#5898
22	.	.	#5898 8200UF/50V, C36&C37 #5896 4700UF/80V->#5898
23	.	.	C25A&B #5224 47N/100V->#5212 100N/63V
24	.	.	R79A&B #6127 470K->#6127 220K
25	.	.	ADDED D4 #5124 5V1/5W, R97&R98 #2006 1R/1W->#5124
26	.	.	Corrected the position of some test nodes.
27	.	.	Fixed BlankSize field
28	Jun-15-2006	7.00	AH, PC#7021, SPACE BETWEEN R96 AND R53
29	.	.	PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	2008/04/07	v8.0p0	Swap c37 with c51; c57 with c36. Moved x11b & x31b to
32	.	.	middle of HS slots. Solder updates, part updates.
33	2008/04/25	v8.00	Changed Q8a&b from 5107 to 5113 - MPSA42
34	2008/05/29	9.00	PC#7590 - PS hum fix. Moved K1B away from X15B.
35	2009/11/09	10.00	PCs 7875, 7876 - Ribbon cable change - XTR screws flipped
36	03-FEB-2010	.	PC7942,PC7980: Update #4xTO220-MTG GG
37	04-FEB-2010	11.00	PC7983: Change D2,D3,D4 #5124 span to .525 GG
38	10-JUN-2010	12.00	PC#7806 Change transistor pattern. PT
39	15-MAY-2012	V13	PC8383 - New double sided PCB released. - ML
40	15-MAY-2012	.	PC8423 - Changed NTC thermistors to YS#6619. - ML
41	21-JUN-2012	V14	Fixed BEC LOC short to heatsink. - ML
42	09-DEC-2015	V15	PC#8734 1N4007 DIODES ADDED TO U5 and U6 -MZ
43	.	.	IMPLEMENTED ON BOARD
44	D	V	N
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N

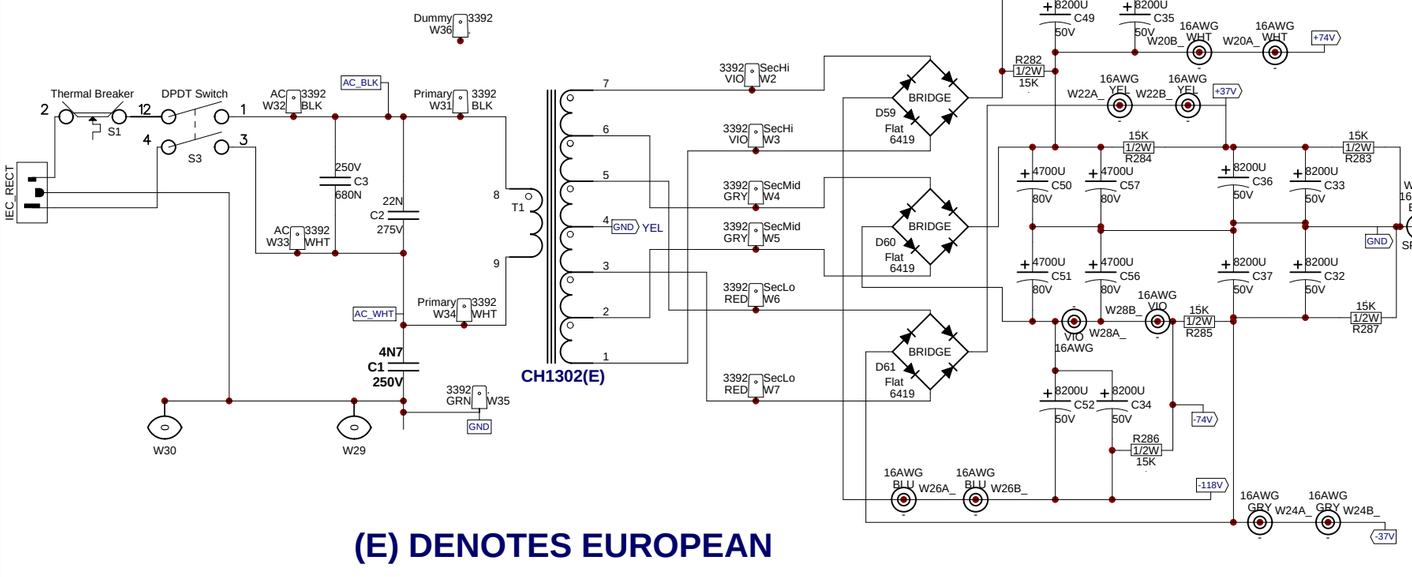


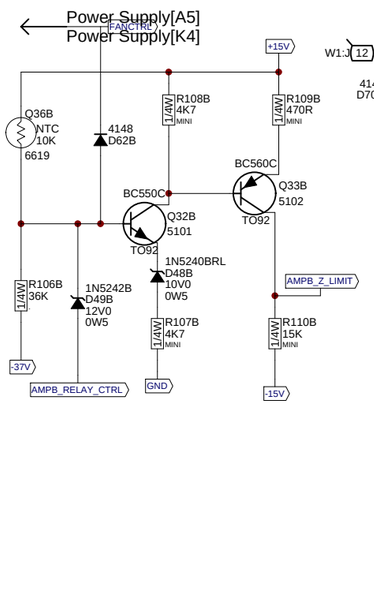


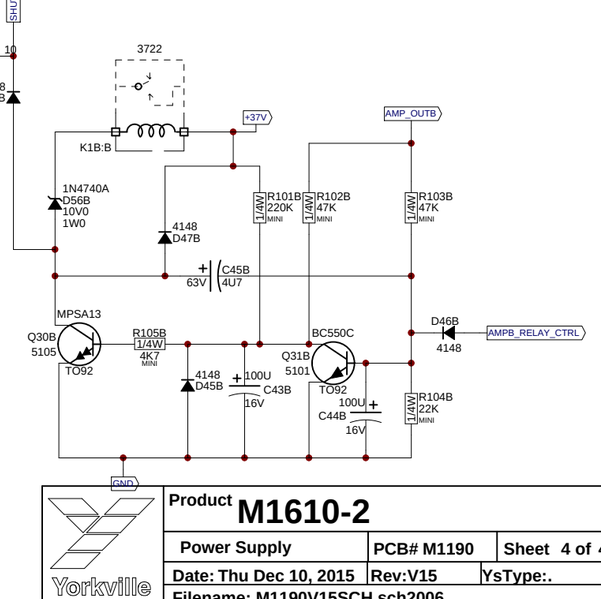












(E) DENOTES EUROPEAN

Yorkville	Product **M1610-2**		
	Power Supply	PCB# M1190	Sheet 4 of 4
	Date: Thu Dec 10, 2015	Rev:V15	YsType:.
	Filename: M1190V15SCH.sch2006		

Wave Solder

BlankSize - 17900x10600

Score

BlankSize - 17900x10600

Heatsink covers this area

Set P1B for 8mv between TP1B and TP2B

Set P1A for 8mv between TP1A and TP2A

TO MIXER

BEND Q36A AGAINST HEATSPREADER AWAY FROM MOUNTING NUT.

M1190 V15

M1610-2

Yorkville (C) 2015

CLINCH ORIGIN

INSERT ORIGIN

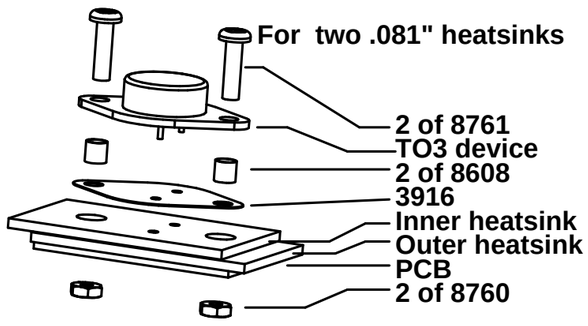
M1190 V15

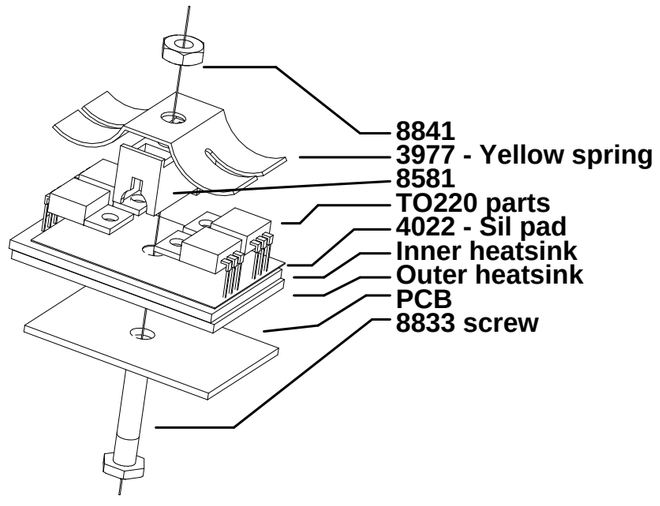
SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

M1190 V15 PRODUCTION NOTES

1. PCBSA: Apply thermal grease evenly between the large inner and outter heatsinks.
2. PCBSA: Use three 8829 screws to align and attach the large heatsinks to the board.
3. PCBSA: When assembling heatsinks to Q20A, Q20B, Q21A, Q21B and Q37, ensure heatsinks are straight and sitting flat against board. Add a very small amount of RTV between heatsink and board if necessary. This prevents the heatsink from shorting to other components.
4. PCBSA: Fill the open space around Q36B, Q7B, Q7A, Q36A with thermal grease after wave soldering.
5. PCBSA: Bend Q36A against heatspreader AWAY from the adjacent mounting nut.
6. PCBSA: Inspect tabs after solder wave and retouch if necessary for a solid solder joint. Advise PENG if soldering quality of the tabs is poor or not consistent.





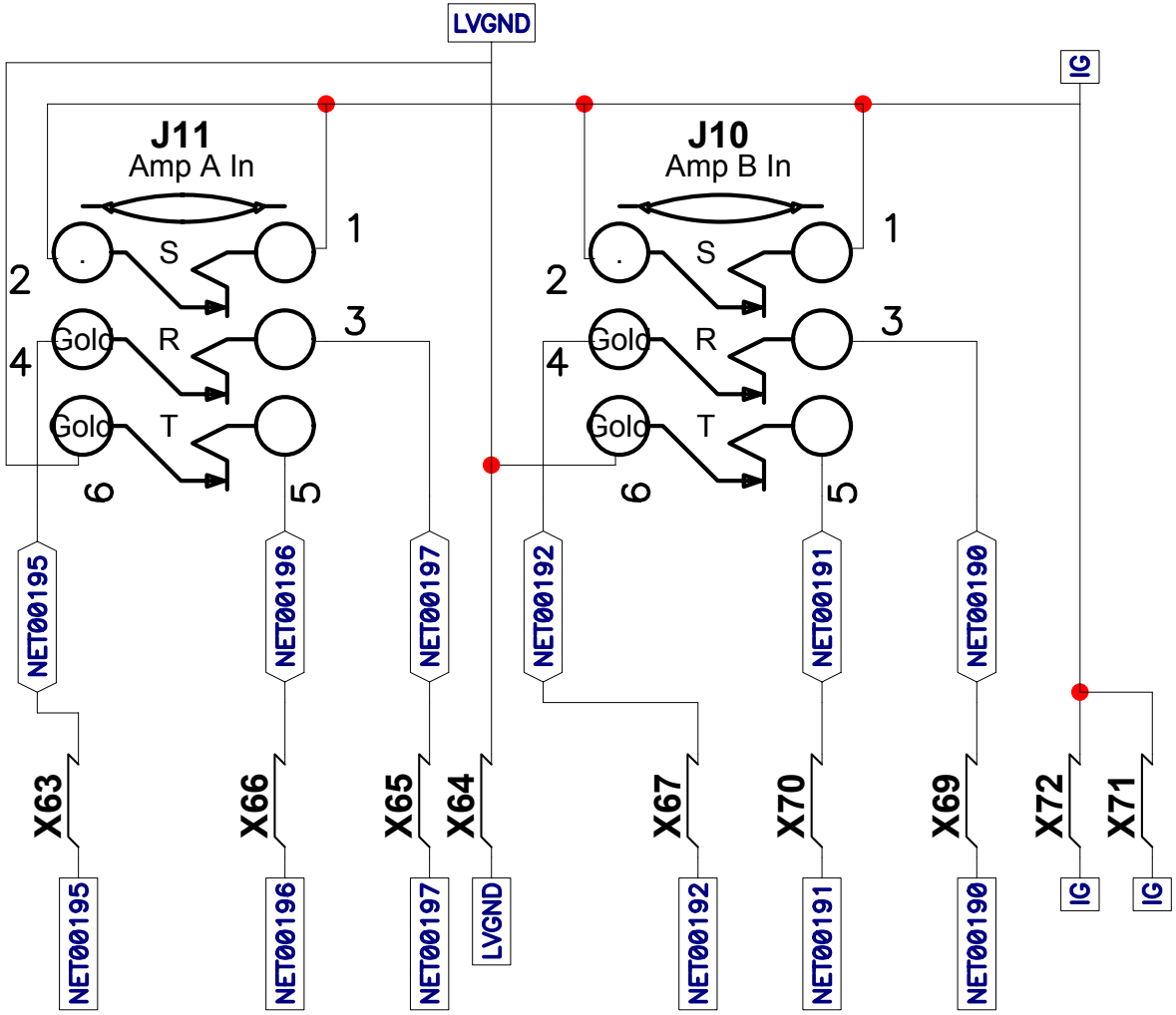
SEE LAYOUT HISTORY

SEE PPRODUCTION NOTES

M1190.PCB_DATABASE_HISTORY

MODEL(S):-M1610

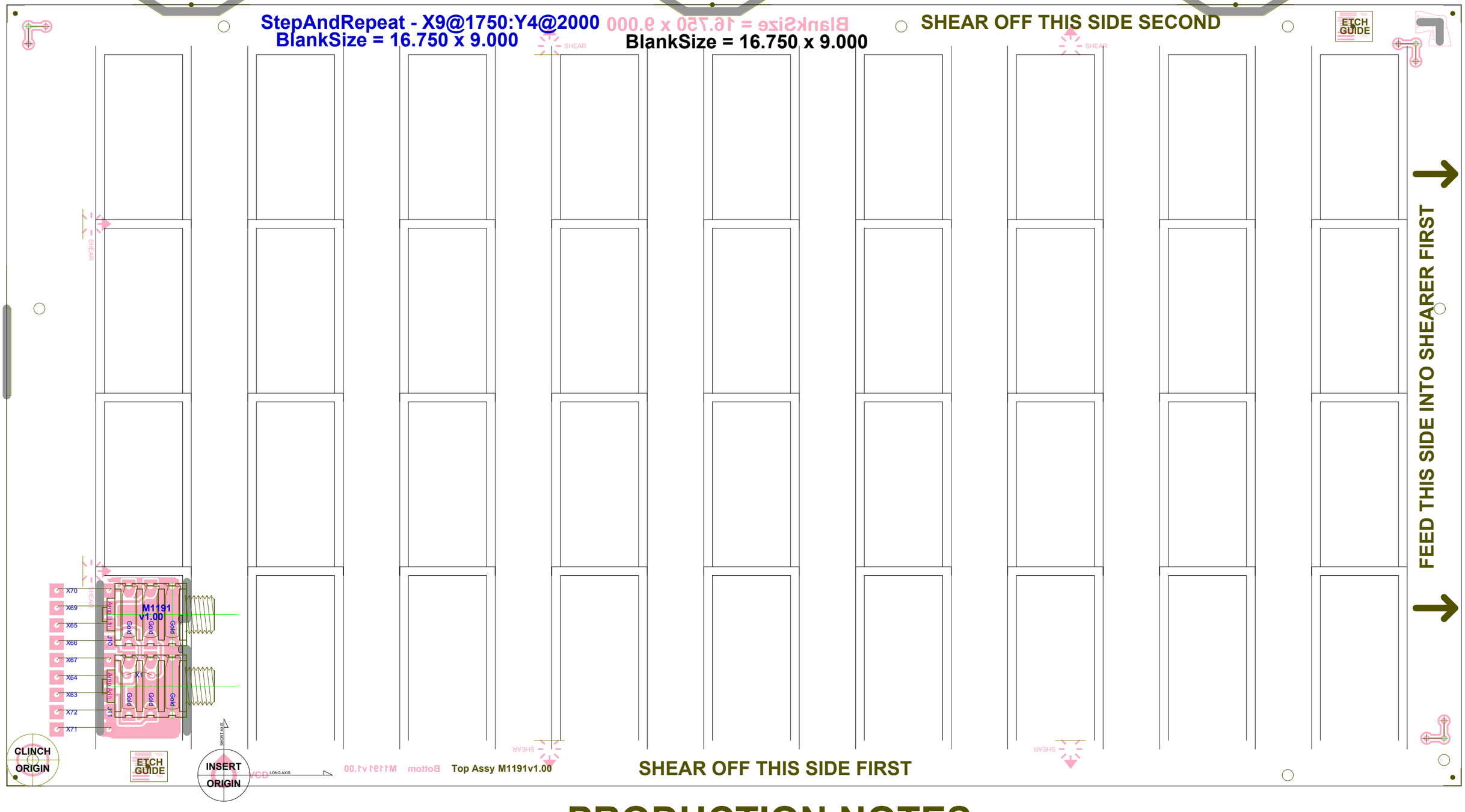
#	DATE	VER#	DESCRIPTION OF CHANGE
1	7 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	21-APR-2004	1.00	PC#6681 Modify route to let grn wire pass board near pwr caps
5	6-MAY-2004	2.00	PC#6684 R83(A,B)->5K6,R5(A,B)6K8->18K,
6			D16&D17(A,B) 4148->BAT85,R47&R48(A,B)22R1->100R0
7			ADDED D71, D72
8	DEC-14-2004	3.00	GT:PC#6787: Fixed AC clearance, and W2&W3 tab label
9	FEB-07-2005	4.00	PC#6809 Remove D17,D16,D12,D13, R47,R48,R49,R50,C14
10	D	V	C15 (All A/B) R45,R46 A/B 36K->43K, D10 16V->12V
11	D	V	D9 A/B 14V->10V0, D8 A/B 12V->8V2. ADD R95 A/B
12	D	V	ADD R96 A/B, R97 A/B, R98 A/B, D71 A/B, D72 A/B
13	D	V	D73 A/B, D74 A/B, X1 ,X2 ,X3 ,X4 X5 AND X6
14	MAR-30-2005	5.00	RECREATED MASK LAYER TO FIX TESTPADS
15	MAR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
16	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
17	21 Apr, 2005	5.11	Force update parts to fix pad orientation
18	JUN-08-2005	6.00	PC#6919:GT:MOVED R95B AVOID HEATSINK COLLISION
19	.	.	XFORMER -> CH1302/E, ADDED 2x#4599,SWAPPED W8 &
20	.	.	W35,R106A&B #6122 33K->#4868 36K, D56A&B #6440
21	.	.	4V7/0.5W->#6484 10V/1W, C32&C33 #5903 12000UF/35V ->
22	.	.	#5898 8200UF/50V, C36&C37 #5896 4700UF/80V->#5898
23	.	.	C25A&B #5224 47N/100V->#5212 100N/63V
24	.	.	R79A&B #6127 470K->#6127 220K
25	.	.	ADDED D4 #5124 5V1/5W, R97&R98 #2006 1R/1W->#5124
26	.	.	Corrected the position of some test nodes.
27	.	.	Fixed BlankSize field
28	Jun-15-2006	7.00	AH, PC#7021, SPACE BETWEEN R96 AND R53
29	.	.	PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	2008/04/25	8.00	Swap c37 with c51; c57 with c36. Moved x11b & x31b to
32	.	.	middle of HS slots. Solder updates, part updates.
33	.	.	Changed Q8a&b from 5107 to 5113 - MPSA42
34	2008/05/29	9.00	PC#7590 - PS hum fix. Moved K1B away from X15B.
35	2009/11/09	10.00	PCs 7875, 7876 - Ribbon cable change - XTR screws flipped.
36	03-FEB-2010	.	PC7942,PC7980: Update #4xTO220-MTG GG
37	04-FEB-2010	11.00	PC7983: Change D2,D3,D4 #5124 span to .525 GG
38	10-JUN-2010	12.00	PC#7806: Change transistor pattern to prevent solder shorts. PT
39	15-MAY-2012	V13	PC8383 - New double sided PCB released. - ML
40	15-MAY-2012	.	PC8423 - Changed NTC thermistors to YS#6619. - ML
41	21-JUN-2012	V14	Fixed BEC LOC short to heatsink. - ML
42	09-DEC-2015	V15	PC#8734 1N4007 DIODES ADDED TO U5 and U6 -MZ
43	D	V	N
44	D	V	N
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N



Yorkville

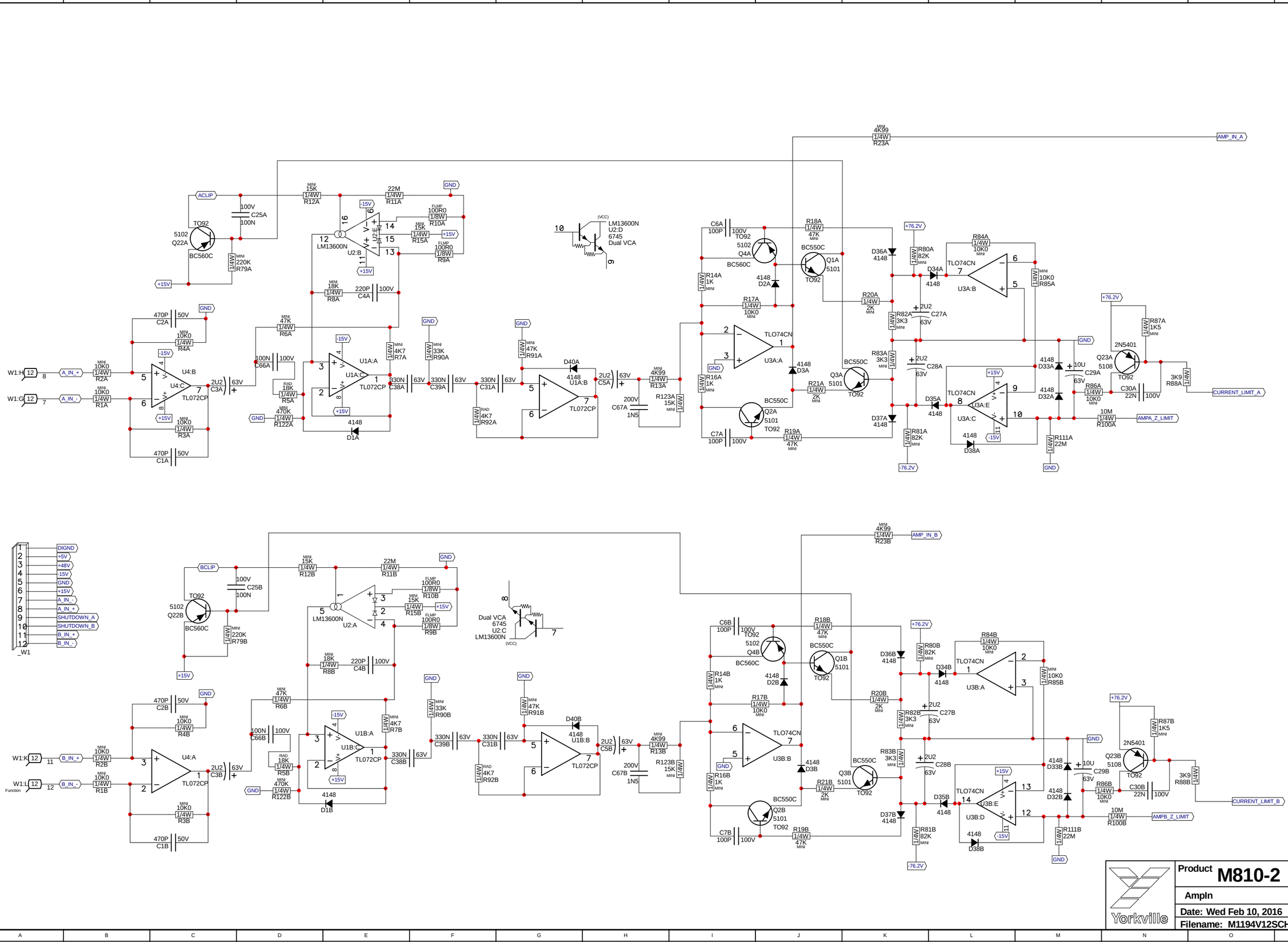
Product **M1610**

Amp in Jacks	PCB# M1191	Sheet 1 of 2
Date: Tue Feb 10, 2004	Rev:V1.00	
Filename: m1191 sch .sch2002		

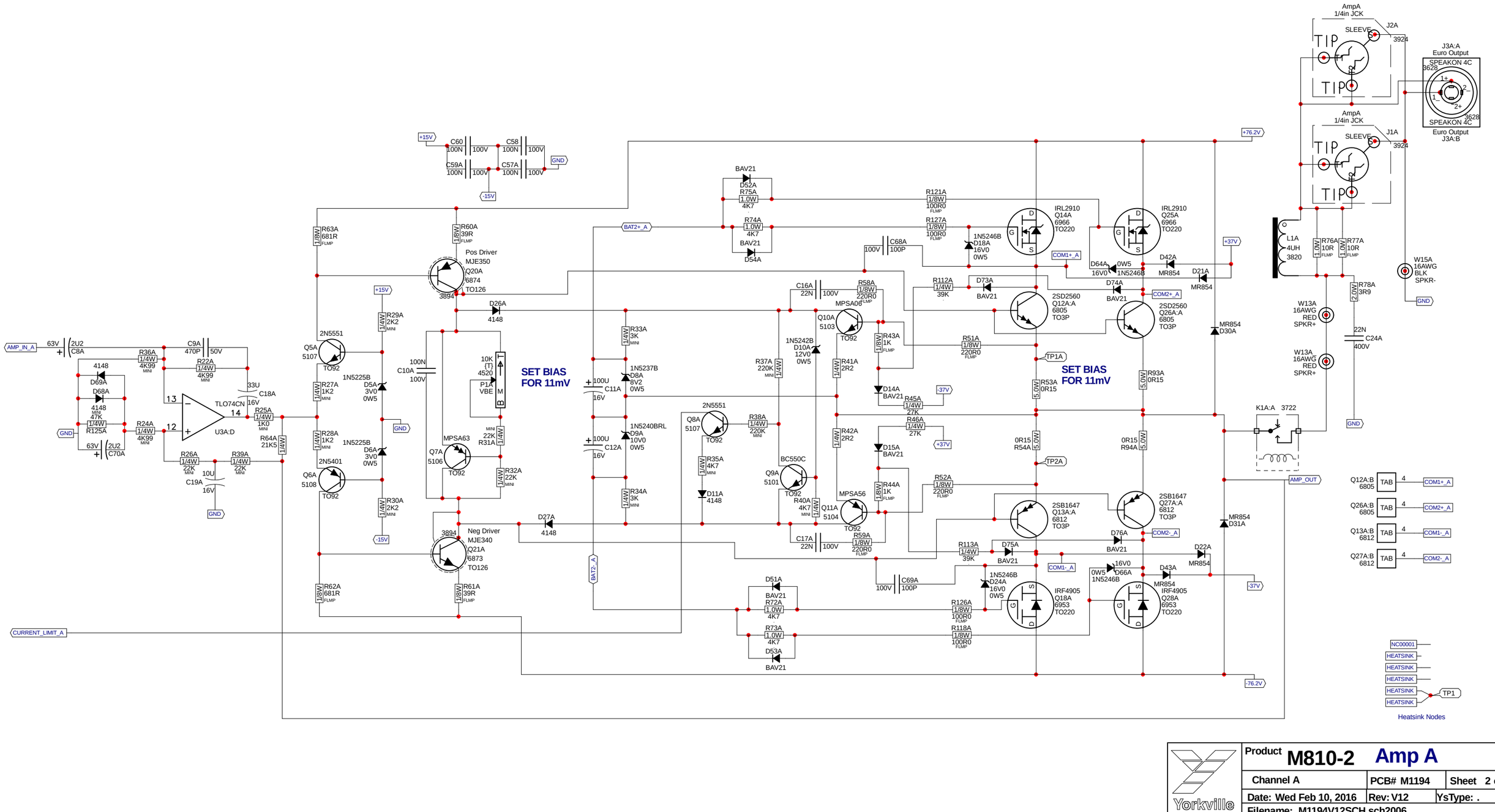


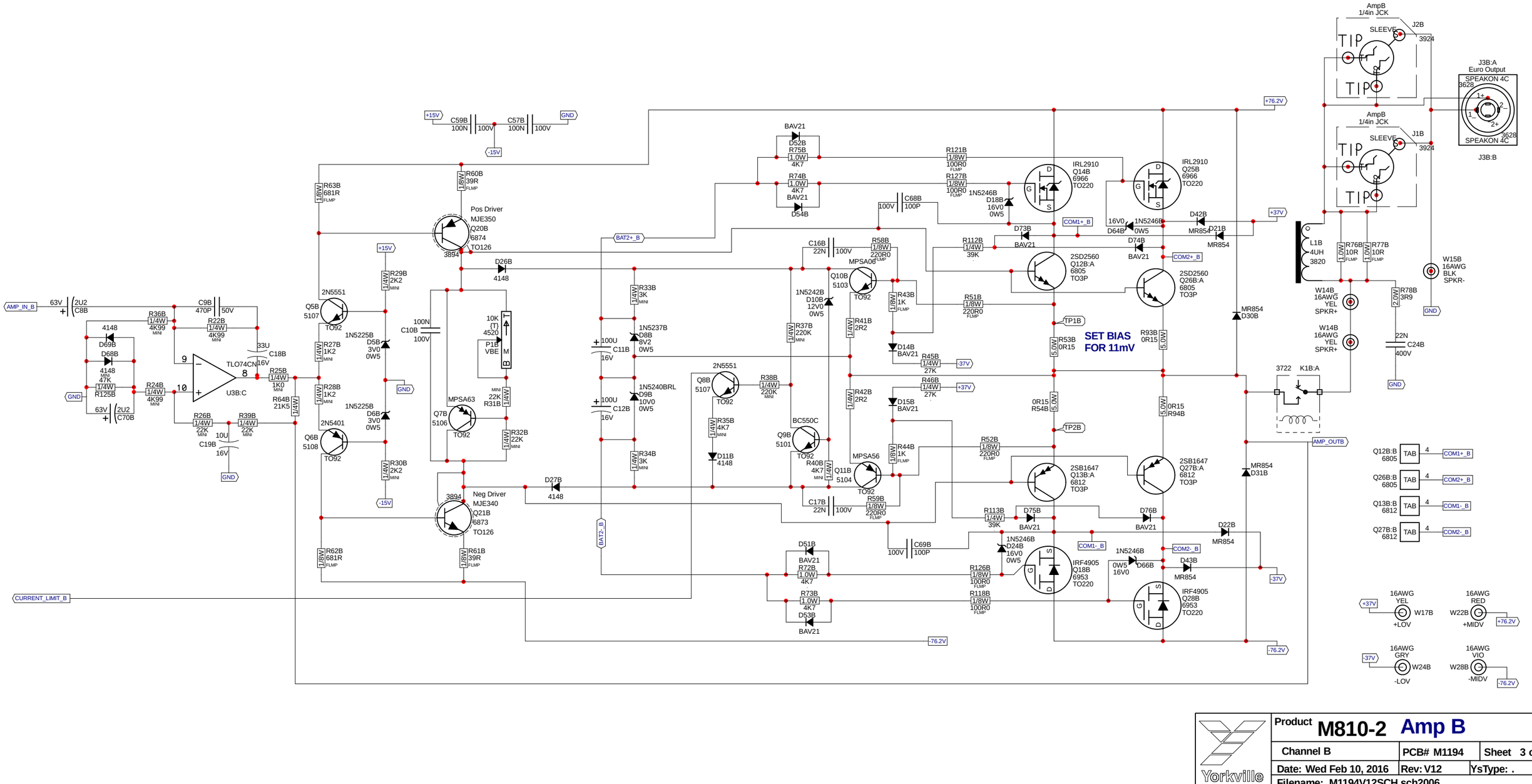
PRODUCTION NOTES

1. Shear off sides containg VCD origin and VCD finger tabs (top and bottom sides) before shearing the board into rows.
2. Feed board into shearer in the direction shown.
3. DO NOT remove the strip of board attached to each set of jumpers. It will keep the jumpers straight until they arrive in wiring.



Product **M810-2**			
AmpIn	PCB# M1194	Sheet 1 of 5	
Date: Wed Feb 10, 2016	Rev: V12	YsType: .	
Filename: M1194V12SCH.sch2006			


AMP_IN_A
CURRENT_LIMIT_A
SET BIAS FOR 11mV
SET BIAS FOR 11mV
Pos Driver
MJE350
Q20A
6874
TO126
Neg Driver
MJE340
Q21A
6873
TO126
TLO74CN
U3A:D
AmpA 1/4in JCK
J2A
AmpA 1/4in JCK
J1A
J3A:A Euro Output SPEAKON 4C
J3A:B Euro Output SPEAKON 4C
K1A:A
AMP_OUT
TP1A
TP2A
Heatsink Nodes
Product M810-2 Amp A
Channel A
PCB# M1194
Sheet 2 of 5
Date: Wed Feb 10, 2016
Rev: V12
YsType: .
Filename: M1194V12SCH.sch2006
Yorkville



Product	**M810-2**	**Amp B**	
Channel B	PCB# M1194	Sheet 3 of 5	
Date: Wed Feb 10, 2016	Rev: V12	YsType: .	
Filename: M1194V12SCH.sch2006			

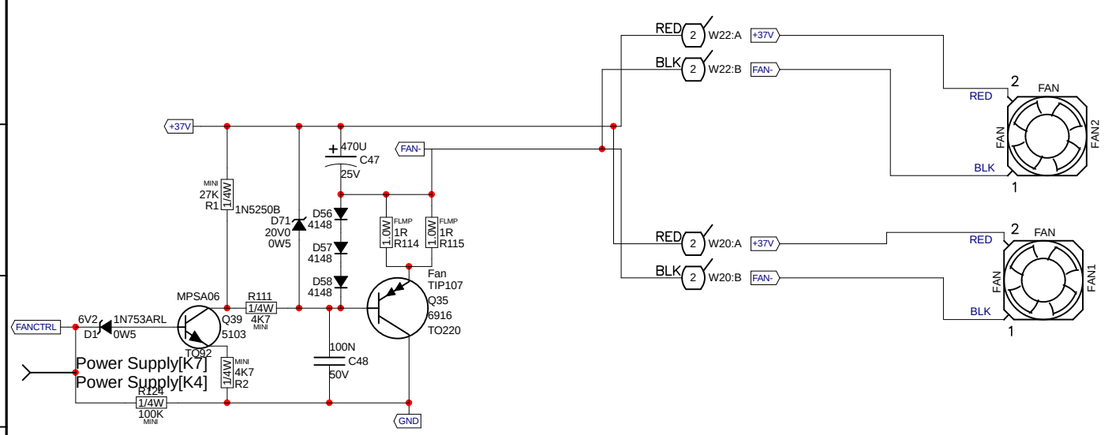
Yorkville

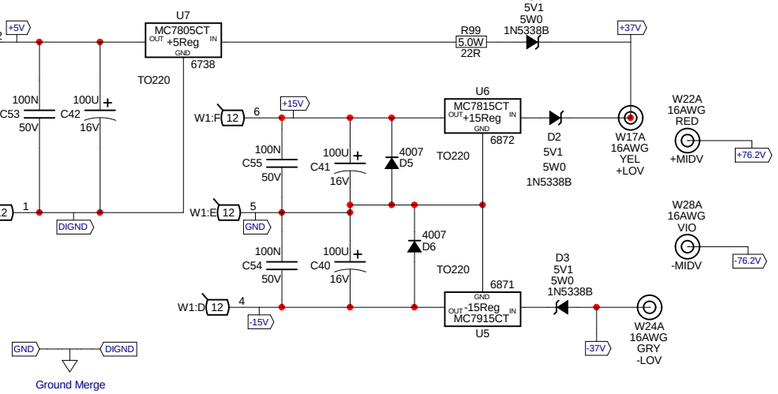
M1194.PCB_DATABASE_HISTORY

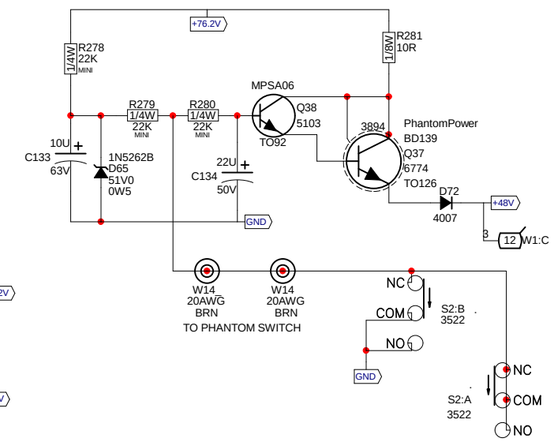
MODEL(S):- M810

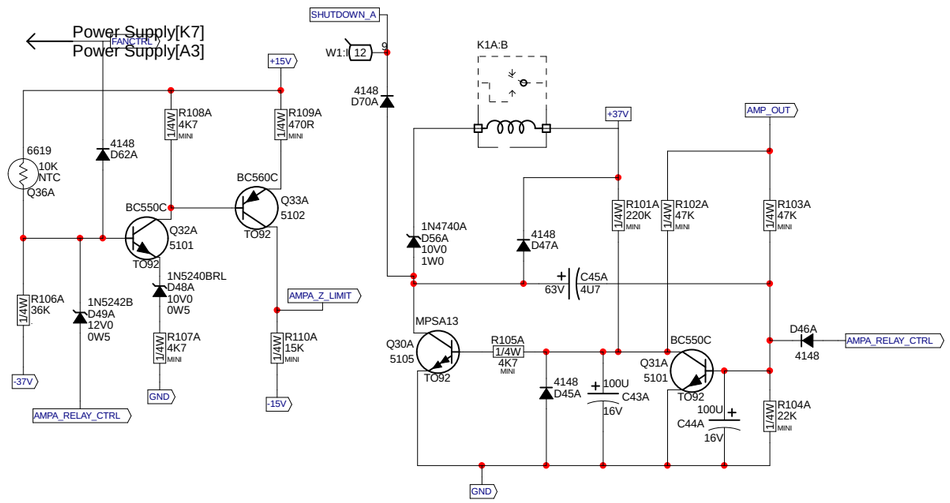
#	DATE	VER#	DESCRIPTION OF CHANGE
1	10 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	1-APR-2004	1.10	PC#6674 Change R31A,B 15k-->22k (4979-->6118)
5	15-APR-2004	1.20	PC#6678 Chg. R5A,B 6k8->18k; R82A,B 5k6->3k3
6	D	V	R83A,B 56k->3k3; R80A,B, R81A,B 133k->100k
7	21-APR-2004	1.20	PC#6681 Modified route to let grn wire pass near power caps
8	6-MAY-2004	2.00	PC#6685 R80&R81(A,B) 100K->82K, ADDED D71, D72
9	JUN/17/2004	2.10	PC# 6707 Q12 (A+B) Q26 (A+B) TIP142 -> MJH11018
10	.	.	Q13 (A+B) , Q27 (A+B) TIP147 -> MJH11017
11	13 Sept, 2004	2.11	TC:PC#6763:Moved HS alignment hole to match HS
12	JAN-05-2005	4.00	PC#6808 R72,R73,R74,R75 FROM 10K0 1W TO 4K7 1W
13	.	.	D8 A/B 12V0 TO 8V2, D9A/B 14V0 TO 10V0, D10A/B 16V0 -
14	.	.	TO 12V0. ADD R112A/B, R113A/B (36K), D73A/B, D74A/B
15	.	.	D75A/B, D76A/B (BAV21). R45A/B, R46A/B 36K TO 30K
16	.	.	REMOVE D16,D17,R47,R48,R49, R50 (ALL A/B)
17	.	.	ADD JUMPERS X1 TO X12
18	.	.	PC#6794: AC CLEARANCE FIX
19	MAR-24-2005	5.00	FIXED MASK SPREAD TO 30MIL
20	APR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
21	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
22	JUN-29-2005	6.00	PC#6920:GT:R106A/B #6122 33K->#4868 36K, D56A/B
23	.	.	#6440 4V7/0W5->#6484 10V1W, C32&C33#5903 12000U/

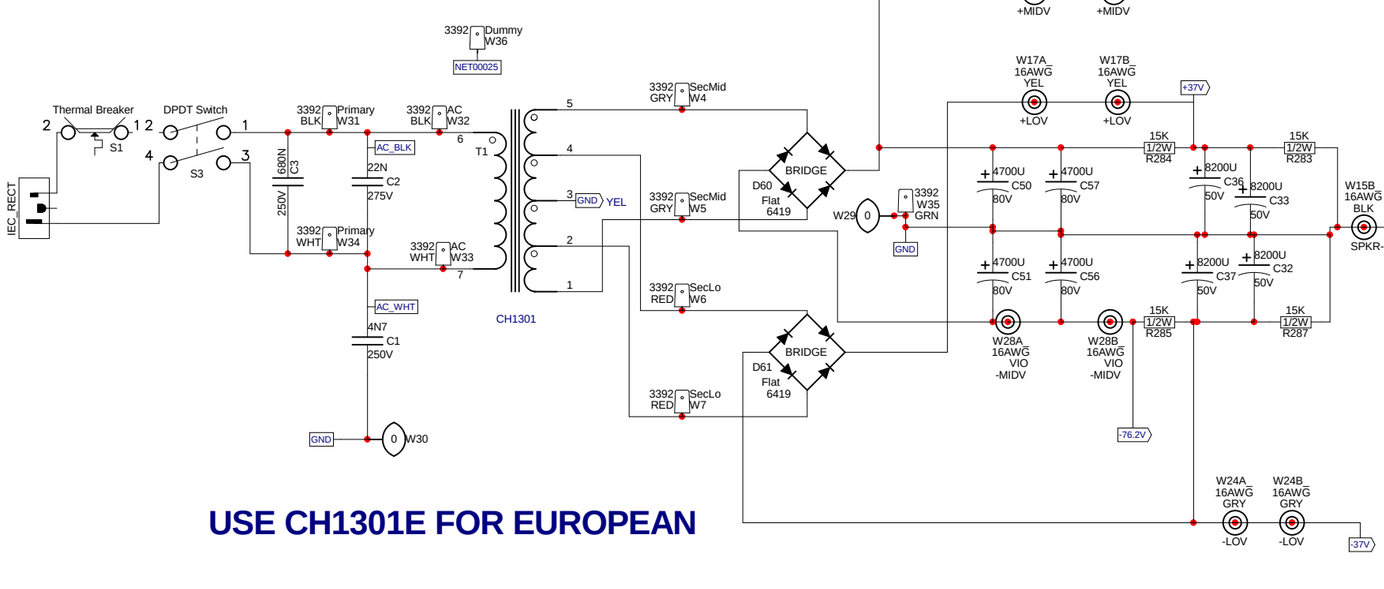
#	DATE	VER#	DESCRIPTION OF CHANGE
24	.	.	35V AND C36&C37#58964700/80V->#5898 8200U/50V
25	.	.	UPDATED BIAS NOTE TO READ 11mV, R45A/B&R46A/B
26	.	.	#4890 30K->#4833 27K, R112A/B&R113A/B #4868 36K->
27	.	.	#4853 39K, C25A/B #5224 47N/100V->#5212 100N/63V,
28	.	.	R79A/B #6127 470K->#6126 220K, SWAPPED W8 AND W35
29	19-JUN-2006	7.00	AH, PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	2008/09/23	8.00	Complete force update of pcb. Moved Q7a,b closer to xtrs.
32	.	.	Solder updates. Thickened traces to R74, R75. Added
33	.	.	NO RTV note to 5watt resistors. Added breaks near caps
34	.	.	and jacks - PC##7349. Flipped xtr spring screws
35	.	.	- PC#7624 and added fan connecter - PC#7628.
36	26-FEB-2008	.	PC7706, CHANGE #6779 WITH #6805 NPN AND CHANGE
37	.	.	#6802 WITH #6812 PNP
38	2009/09/24	9.00	PCs 7875, 7876 - Ribbon cable change - XTR screws flipped.
39	03-FEB-2010	.	PC7942,PC7980: Update 4xTO220-MTG, 2xTO218-MTG GG
40	05-FEB-2010	10.00	PC7983: Enlarge D2,D3,D4 span to .525 GG
41	23-MAR-2012	V11	PC8383: CHANGED PCB TO DS / REMOVED EYELETS. - ML
42	03-JUN-2012	.	PC8423: Replaced thermistors from 6467 to 6619. - ML
43	FEB-8-2016	V12	PC#8734: Two 1N4007 (YS#6438) Diodes added to 15V
44	.	.	-Supply Regulators..
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N

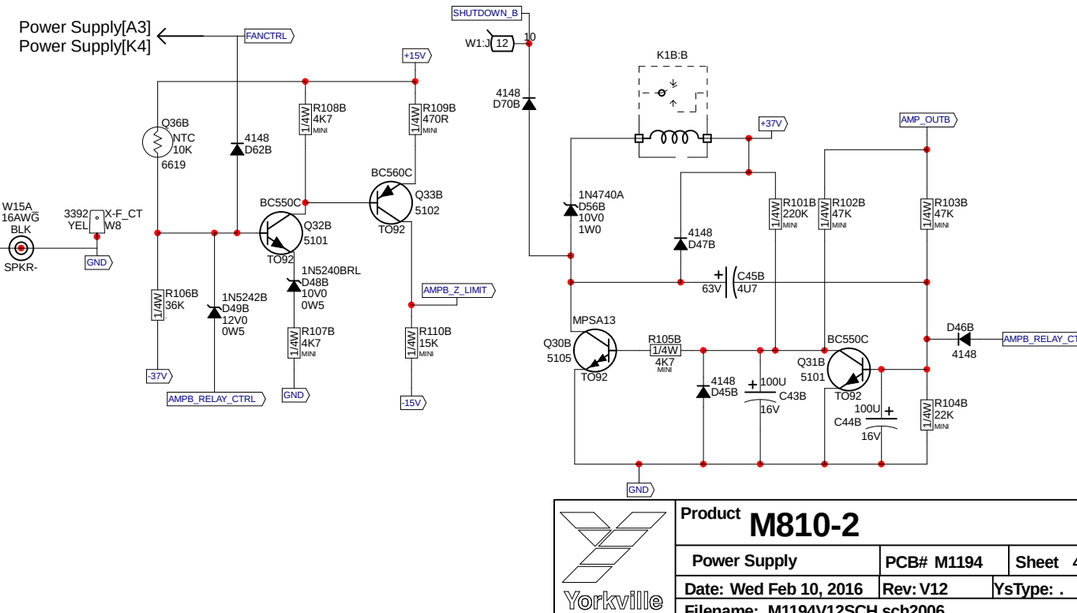












USE CH1301E FOR EUROPEAN

Yorkville	Product **M810-2**	
	Power Supply	PCB# M1194 / Sheet 4 of 5
	Date: Wed Feb 10, 2016	Rev: V12 / YsType: .
	Filename: M1194V12SCH.sch2006	

Wave Solder ---------->

Set P1B for 11mV between TP1B and TP2B

Set P1 for 11mv between TP1A and TP2A

TO MIXER

TO PHANTOM SWITCH

BEC
LOC

M1194
M810-2
V12 1/2

M1194 V12

M810-2

Yorkville
© 2016

BlankSize - 17900x10625

CLINCH ORIGIN

INSERT ORIGIN

M1194 V12

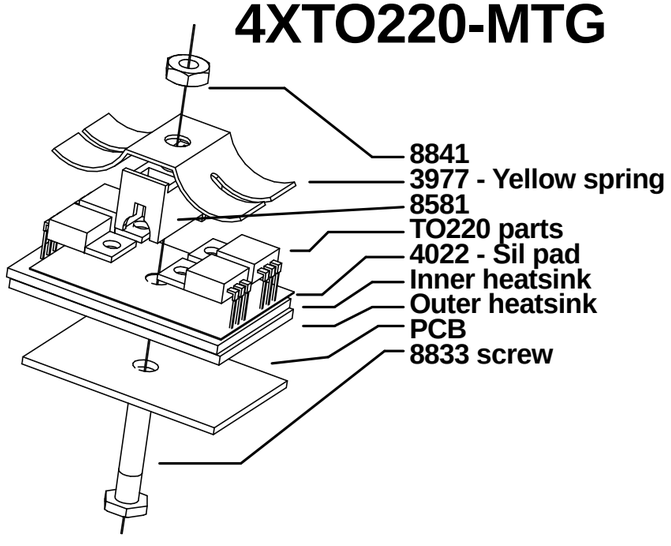
SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

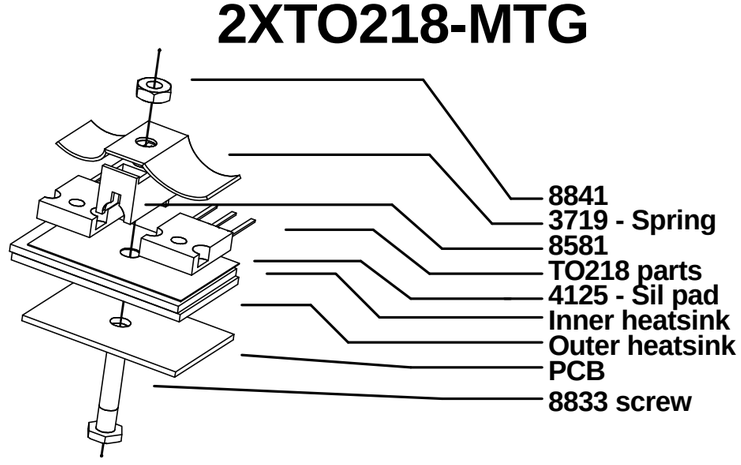
M1194 V12 PRODUCTION NOTES

1. PCBSA: Apply thermal grease evenly between the large inner and outter heatsinks.
2. PCBSA: Use three 8829 screws to align and attach the large heatsinks to the board.
3. PCBSA: When assembling heatsinks to Q20A, Q20B, Q21A, Q21B and Q37, ensure heatsinks are straight and sitting flat against board. Add a very small amount of RTV between heatsink and board if necessary. This prevents the heatsink from shorting other components.
4. PCBSA: Fill the open space around Q36B, Q7B, Q7A, Q36A with thermal grease after wave soldering.
5. PCBSA: Inspect tabs after solder wave and retouch if necessary for a solid solder joint. Advise PENG if soldering quality of the tabs is poor or not consistent.

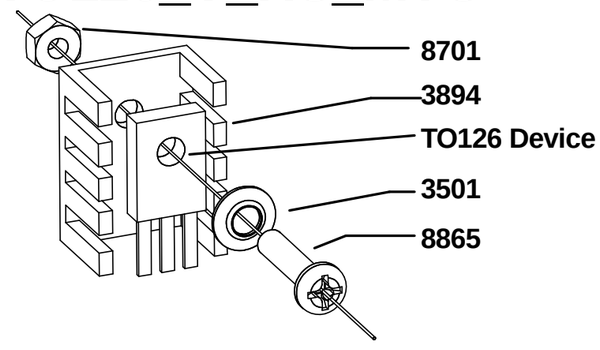
4XTO220-MTG



2XTO218-MTG



TO126_V_HS_MTG



SEE LAYOUT DIAGRAM

M1194.PCB_DATABASE_HISTORY

MODEL(S):- M810-2

#	DATE	VER#	DESCRIPTION OF CHANGE
1	10 Jan, 2004	1.00	Rationalize wire refdes
2	24 Feb, 2004	1.00	Add speakon jacks to output section
3	10 Mar, 2004	1.00	Enlarge cutouts for 8841 nuts
4	1-APR-2004	1.10	PC#6674 Change R31A,B 15k-->22k (4979-->6118)
5	15-APR-2004	1.20	PC#6678 Chg. R5A,B 6k8->18k; R82A,B 5k6->3k3
6			R83A,B 56k->3k3; R80A,B, R81A,B 133k->100k
7	21-APR-2004	1.20	PC#6681 Modified route to let grn wire pass near power caps
8	6-MAY-2004	2.00	PC#6685 R80&R81(A,B) 100K->82K, ADDED D71, D72
9	JUN/17/2004	2.10	PC# 6707 Q12 (A+B) Q26 (A+B) TIP142 -> MJH11018
10	.	.	Q13 (A+B) , Q27 (A+B) TIP147 -> MJH11017
11	13 Sept, 2004	2.11	TC:PC#6763:Moved HS alignment hole to match HS
12	JAN-05-2005	4.00	PC#6808 R72,R73,R74,R75 FROM 10K0 1W TO 4K7 1W
13	.	.	D8 A/B 12V0 TO 8V2, D9A/B 14V0 TO 10V0, D10A/B 16V0 -
14	.	.	TO 12V0. ADD R112A/B, R113A/B (36K), D73A/B, D74A/B
15	.	.	D75A/B, D76A/B (BAV21). R45A/B, R46A/B 36K TO 30K
16	.	.	REMOVE D16,D17,R47,R48,R49, R50 (ALL A/B)
17	.	.	ADD JUMPERS X1 TO X12
18	.	.	PC#6794: AC CLEARANCE FIX
19	MAR-24-2005	5.00	FIXED MASK SPREAD TO 30MIL
20	APR-13-2005	5.10	CHANGE IRF3205 #6954 TO IRL2910 #6966
21	.	.	PLACE MICA UNDER MIDDLE TIER MOSFETS
22	JUN-29-2005	6.00	PC#6920:GT:R106A/B #6122 33K->#4868 36K, D56A/B
23	.	.	#6440 4V7/0W5->#6484 10V1W, C32&C33#5903 12000U/
24	.	.	35V AND C36&C37#58964700/80V->#5898 8200U/50V
25	.	.	UPDATED BIAS NOTE TO READ 11mV, R45A/B&R46A/B
26	.	.	#4890 30K->#4833 27K, R112A/B&R113A/B #4868 36K->
27	.	.	#4853 39K, C25A/B #5224 47N/100V->#5212 100N/63V,
28	.	.	R79A/B #6127 470K->#6126 220K, SWAPPED W8 AND W35
29	19-JUN-2006	7.00	AH, PC#6983, WIDEN TRACE BETWEEN C32 AND C37
30	.	.	PC#7091, ENLARGE HOLE SIZE FOR #3522
31	2008/09/23	8.00	Complete force update of pcb. Moved Q7a,b closer to xtrs.
32	.	.	Solder updates. Thickened traces to R74, R75. Added
33	.	.	NO RTV note to 5watt resistors. Added breaks near caps
34	.	.	and jacks - PC##7349. Flipped xtr spring screws
35	.	.	- PC#7624 and added fan connecter - PC#7628.
36	26-FEB-2008	.	PC7706, CHANGE #6779 WITH #6805 NPN AND CHANGE
37	.	.	#6802 WITH #6812 PNP
38	2009/09/24	9.00	PCs 7875, 7876 - Ribbon cable change - XTR screws flipped.
39	03-FEB-2010	.	PC7942,PC7980: Update 4xTO220-MTG, 2xTO218-MTG GG
40	05-FEB-2010	10.00	PC7983: Enlarge D2,D3,D4 span to .550 GG
41	23-MAR-2012	V11	PC8383: CHANGED PCB TO DS / REMOVED EYELETS. - ML
42	03-JUN-2012	.	PC8423: Replaced thermistors from 6467 to 6619. - ML
43	FEB-8-2016	V12	PC#8734: Two 1N4007 (YS#6438) Diodes added to 15V
44	.	.	-Supply Regulators..
45	D	V	N
46	D	V	N
47	D	V	N
48	D	V	N
49	D	V	N
50	D	V	N

DRILL & ROUTE HISTORY

MODEL(S):- M810-2

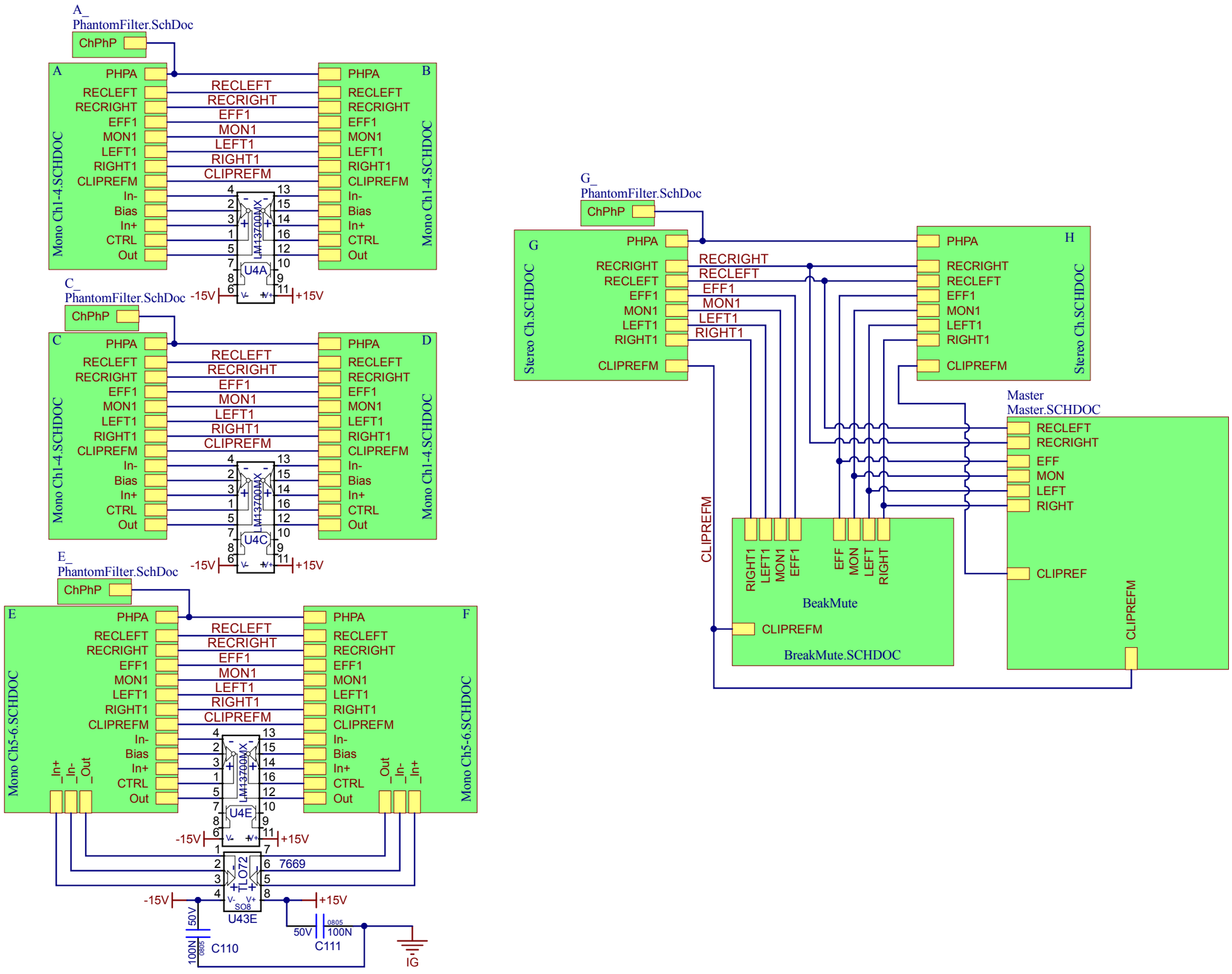
#	DATE	VER#	DESCRIPTION OF CHANGE
1	10-MAR-2004	V02	Enlarged routing for hex nuts
2	5-MAY-2004	V03	Added notch to routing to pass GRN wire from front
3	6-MAY-2004	V04	To match v2.00 changes
4	JAN-05-2005	V05	PC#6763 MOVE TOP LEFT HEATSINK LINE-UP HOLE
5	20 Apr,2005	5.11	Corrected 'BlankSize' field for clinch program
6	.	.	Corrected pad orientations on 4520, 5840 and 3722
7	2008/09/23	13	Solder updates, several PCs. New drill and route.
8	23-MAR-2012	V15	PC8383: PCB converted to double sided.
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

M1194 PENDING CHANGES

MODEL(S):- M810-2

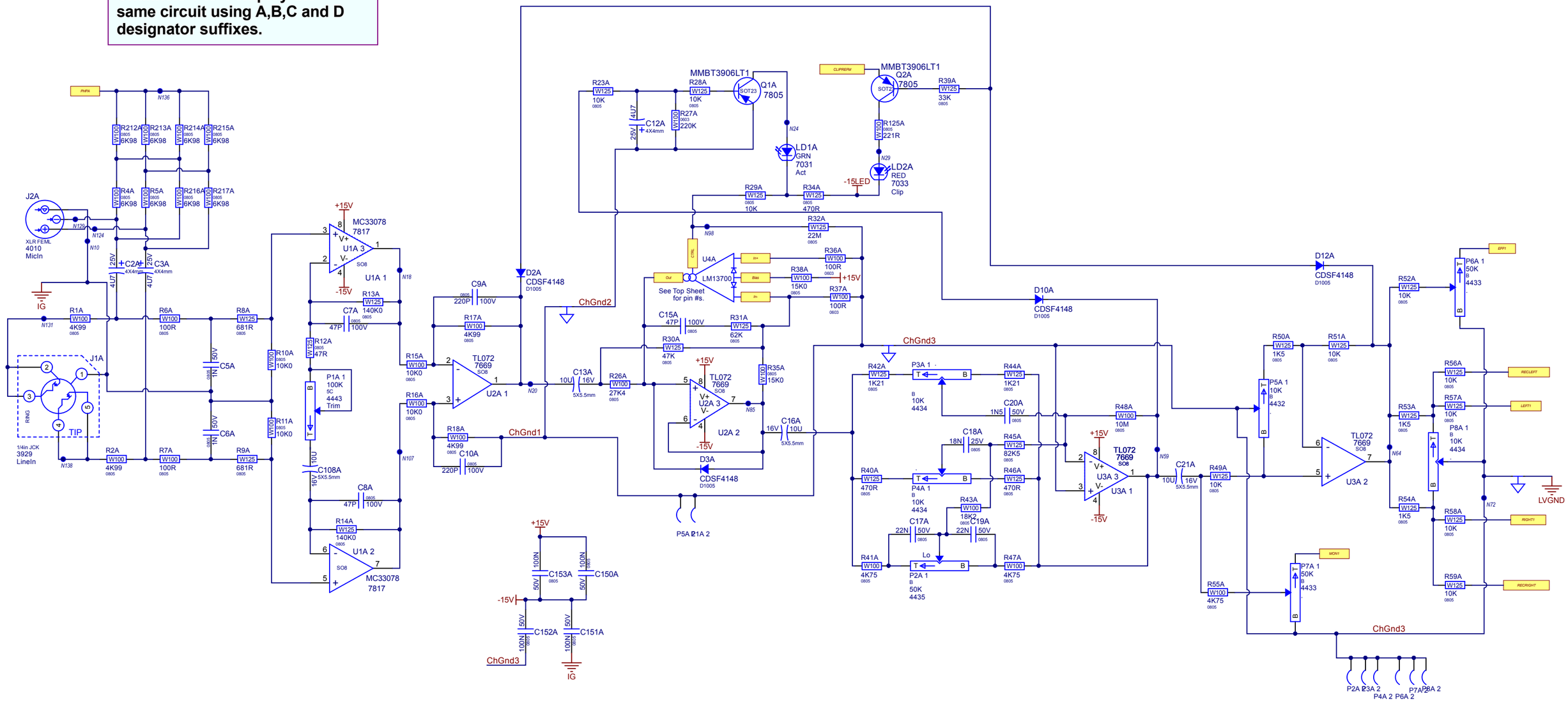
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY



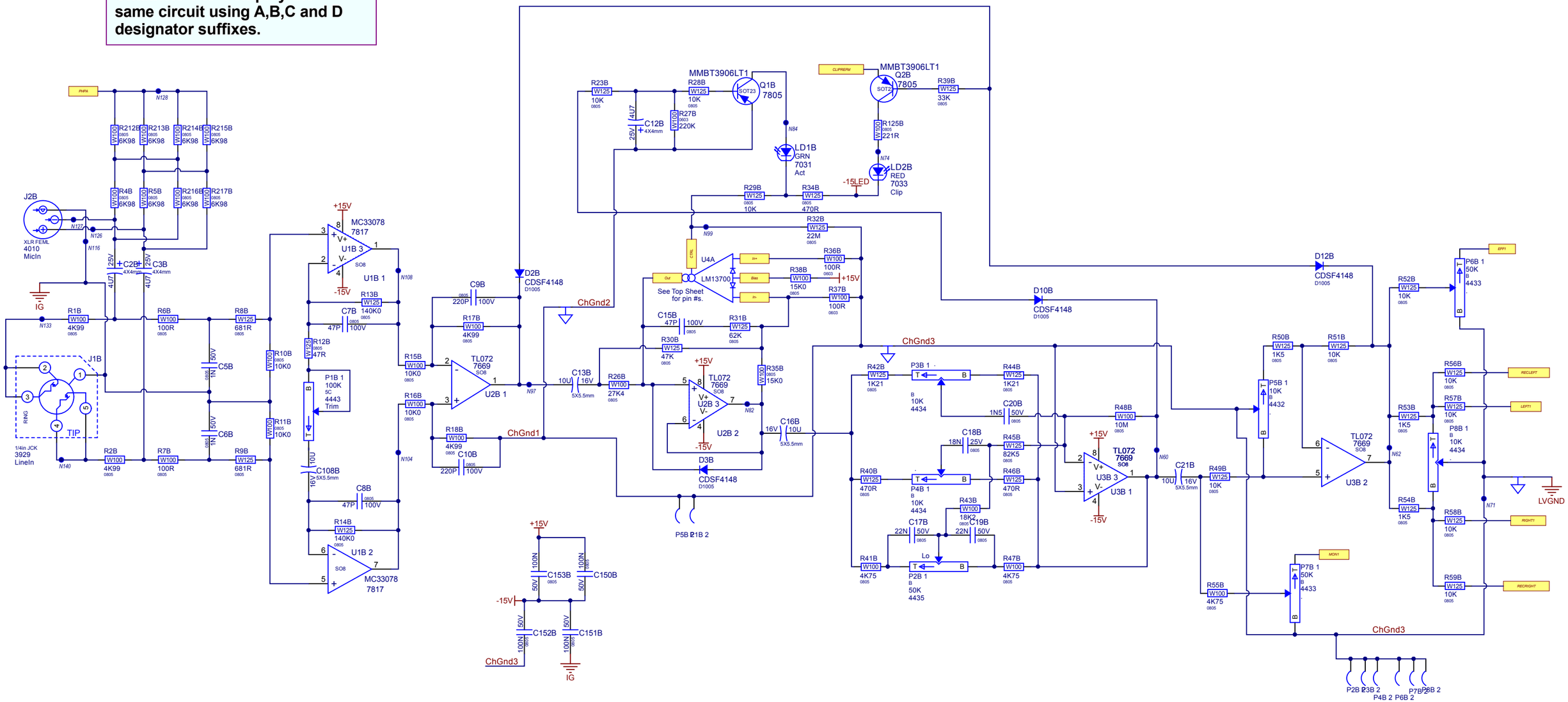
Yorkville	Section: **Top Sheet**		
	Product(s): **M1610-2,M810-2**		
	PCB#: M2188	Rev#: V01	En : G. Atwood	Sheet 1 Of 23
	Modified: 2023-02-21	File: TopSheet.SchDoc	

Only one Mono Channel is shown. Channels 1 to 4 employ the same circuit using A,B,C and D designator suffixes.



Yorkville	Section: **Mono Channels A-D**		
	Product(s): **M1610-2,M810-2**		
	PCB#: M2188	Rev#: V01	En : G. Atwood	Sheet 2 Of 23
	Modified: 2023-01-17	File: Mono Ch1-4.SCHDOC	

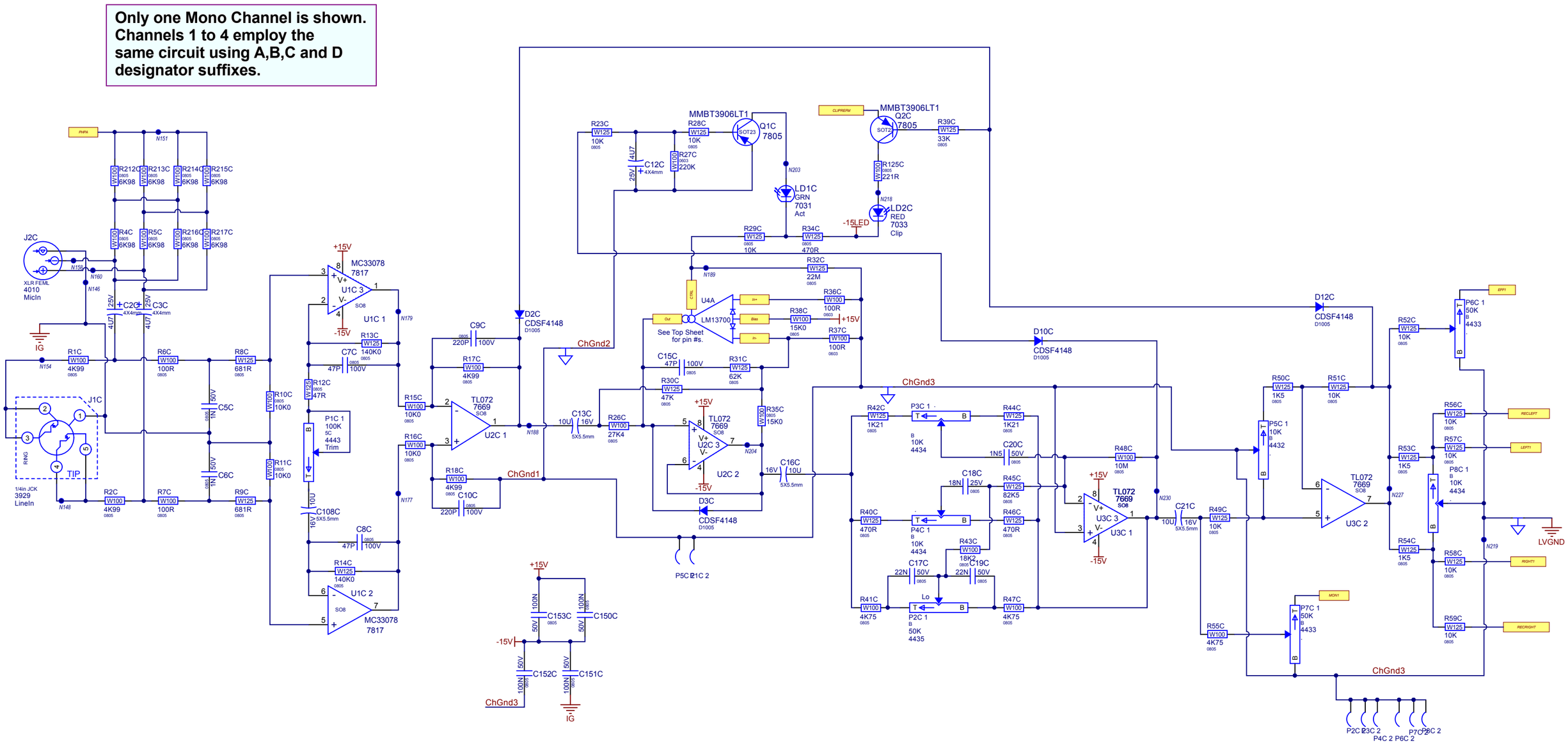
Only one Mono Channel is shown. Channels 1 to 4 employ the same circuit using A,B,C and D designator suffixes.



Yorkville	Section: **Mono Channels A-D**		
	Product(s): **M1610-2,M810-2**		
	PCB#: M2188	Rev#: V01	En : G. Atwood
	Modified: 2023-01-17	File: Mono Ch1-4.SCHDOC	

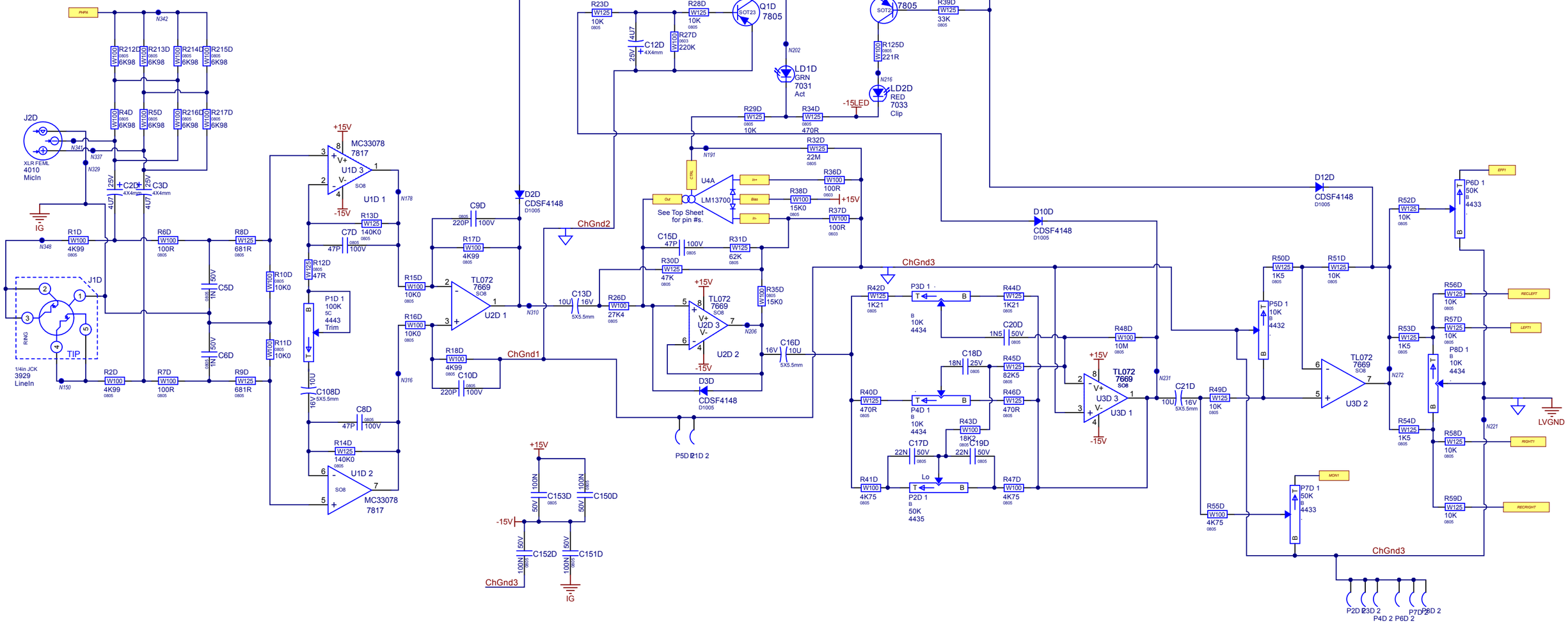
Sheet 3 Of 23

Only one Mono Channel is shown. Channels 1 to 4 employ the same circuit using A,B,C and D designator suffixes.



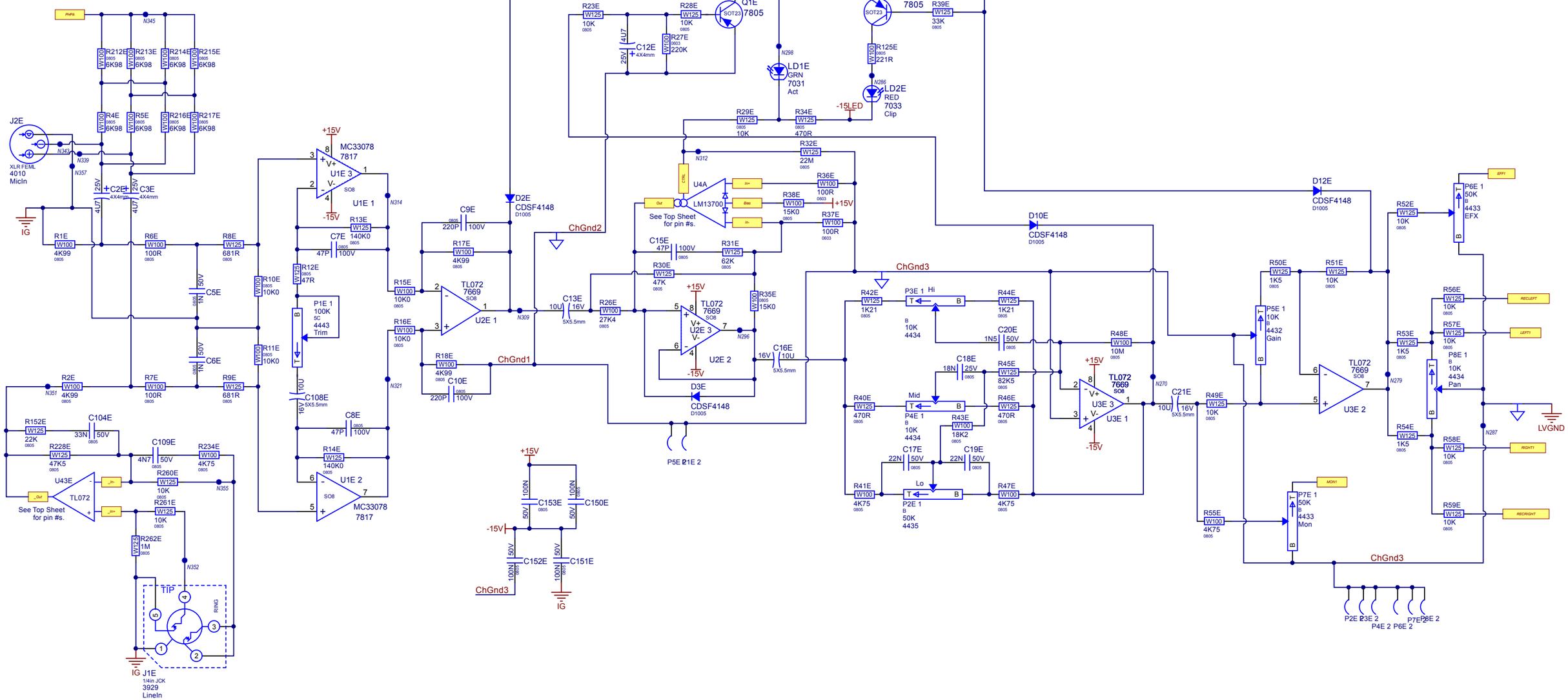
Yorkville	Section: **Mono Channels A-D**		
	Product(s): **M1610-2,M810-2**		
	PCB#: M2188	Rev#: V01	En : G. Atwood
	Modified: 2023-01-17	File: Mono Ch1-4.SCHDOC	

Only one Mono Channel is shown. Channels 1 to 4 employ the same circuit using A,B,C and D designator suffixes.



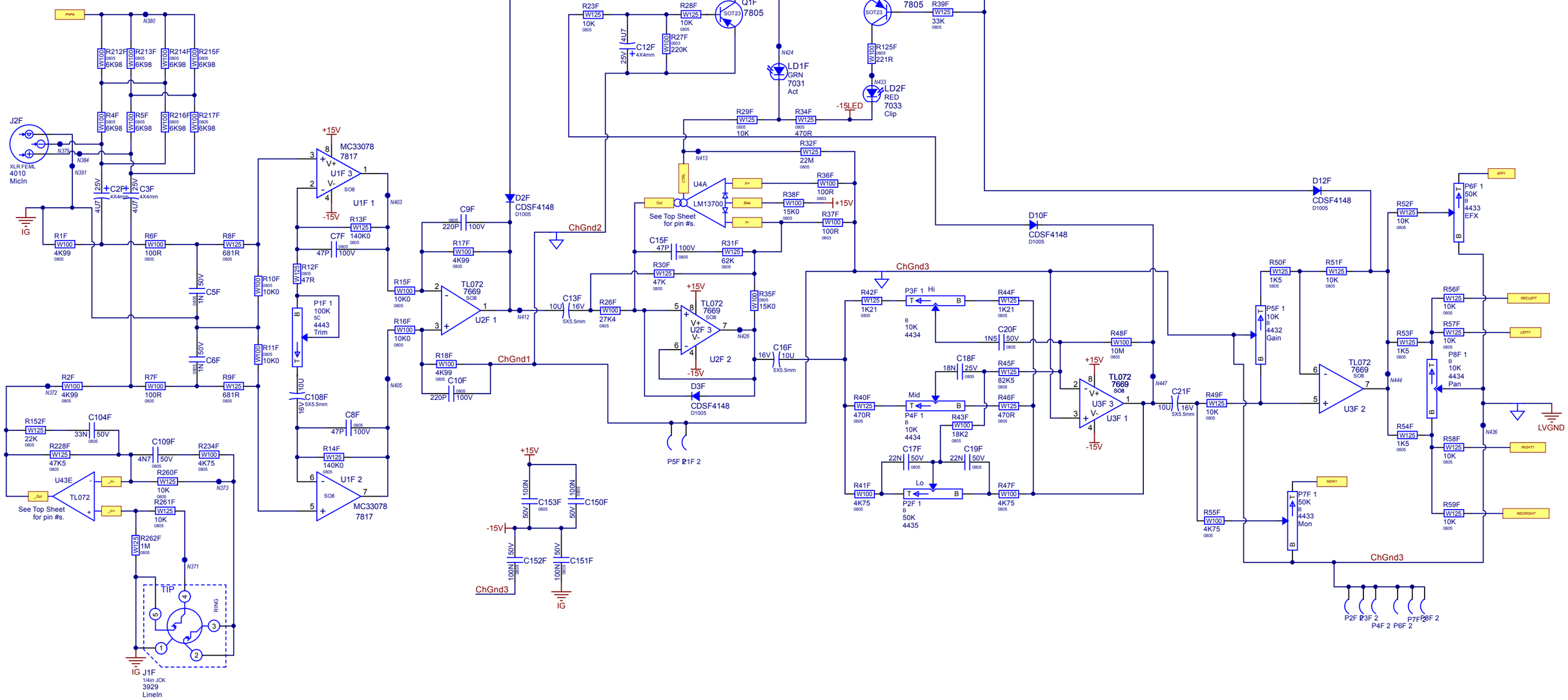
Yorkville	Section: **Mono Channels A-D**			
	Product(s): **M1610-2,M810-2**			
	PCB#: M2188	Rev#: V01	En : G. Atwood	Sheet 5 Of 23
	Modified: 2023-01-17	File: Mono Ch1-4.SCHDOC		

Only one Mono Channel with high impedance 1/4" input is shown. Channels 5 and 6 employ the same circuit using E and F designator suffixes.



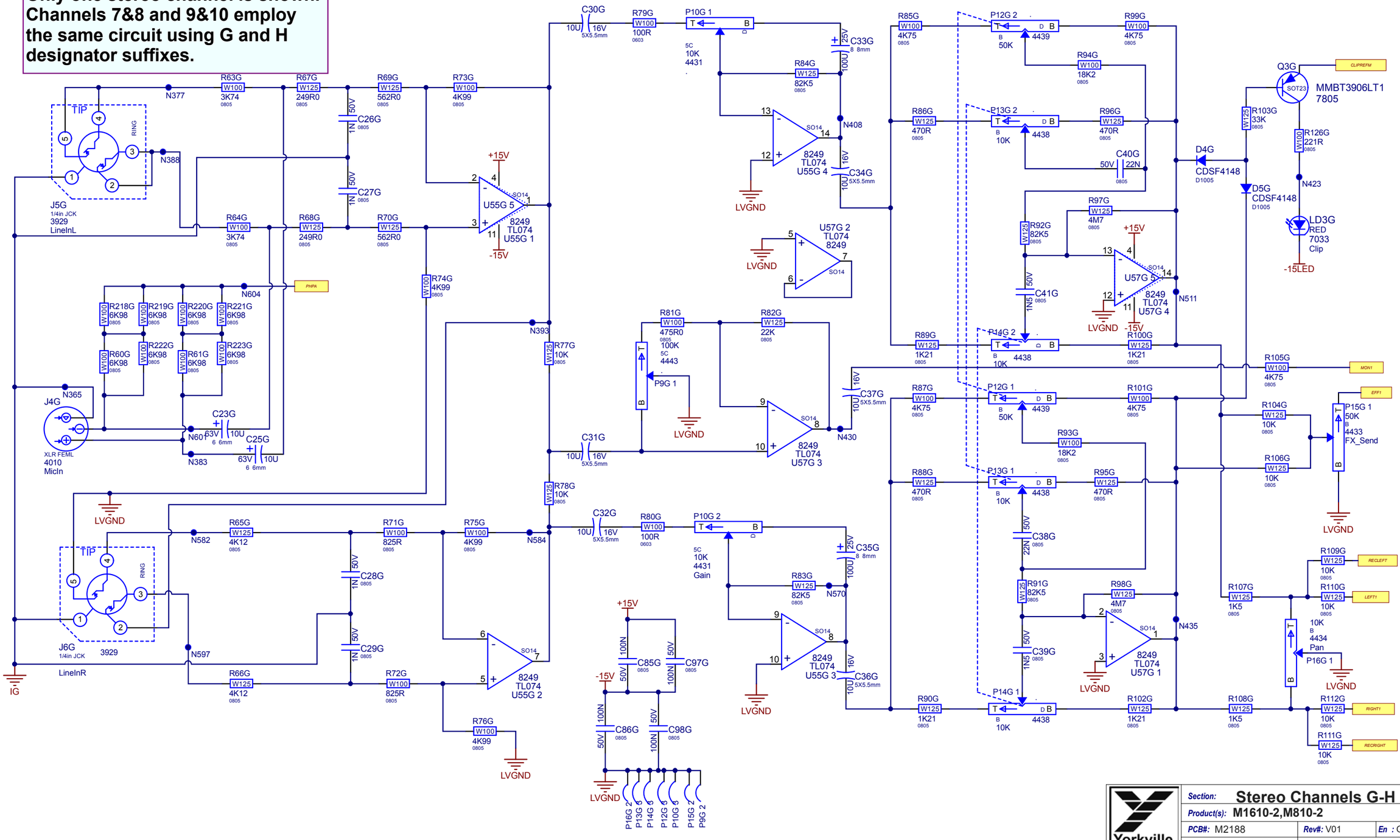
Yorkville	Section: **Mono Channels E-F**		
	Product(s): **M1610-2,M810-2**		
PCB#: M2188	Rev#: V01	En : G. Atwood	Sheet 6 Of 23
Modified: 2023-01-17	File: Mono Ch5-6.SCHDOC		

Only one Mono Channel with high impedance 1/4" input is shown. Channels 5 and 6 employ the same circuit using E and F designator suffixes.



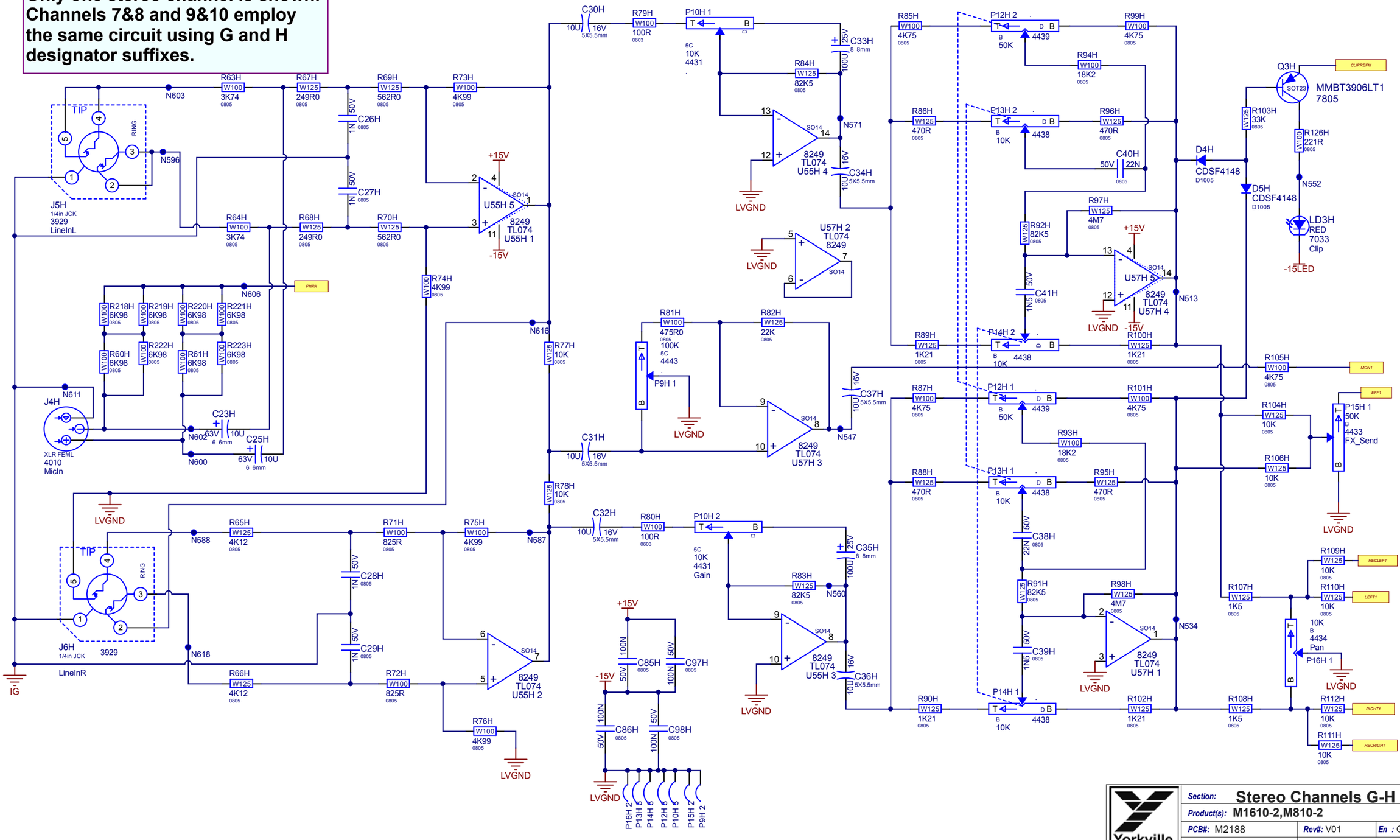
Yorkville	**Section:** Mono Channels E-F		
	Product(s): M1610-2,M810-2		
	PCB#: M2188	**Rev#:** V01	**En :** G. Atwood	**Sheet** 7 **Of** 23
	Modified: 2023-01-17	**File:** Mono Ch5-6.SCHDOC	

Only one stereo channel is shown. Channels 7&8 and 9&10 employ the same circuit using G and H designator suffixes.

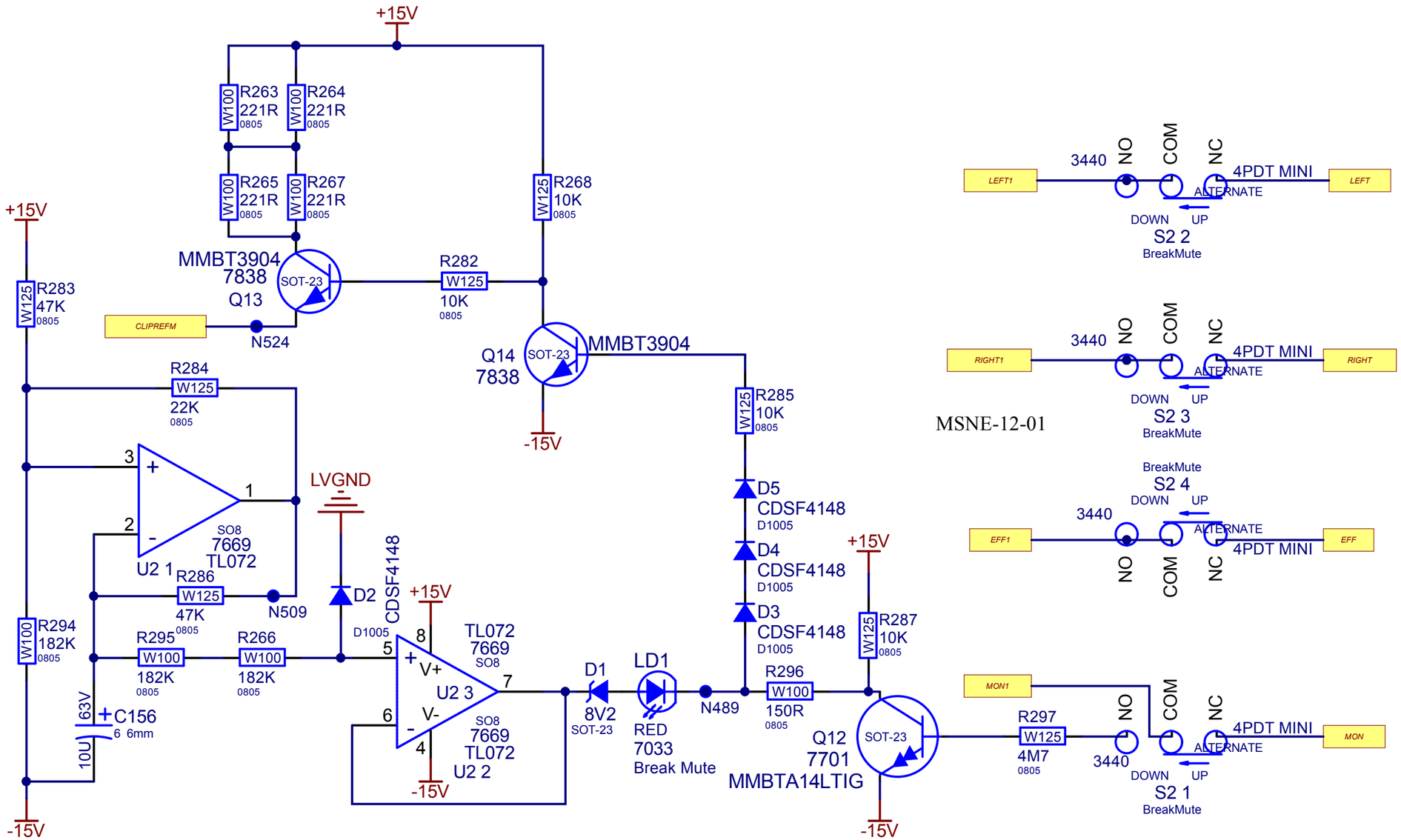


Section: Stereo Channels G-H			
Product(s): M1610-2,M810-2			
PCB#: M2188	**Rev#:** V01	**En :** G. Atwood	**Sheet** 8 **Of** 23
Modified: 2022-12-22	**File:** Stereo Ch.SCHDOC		

Only one stereo channel is shown. Channels 7&8 and 9&10 employ the same circuit using G and H designator suffixes.

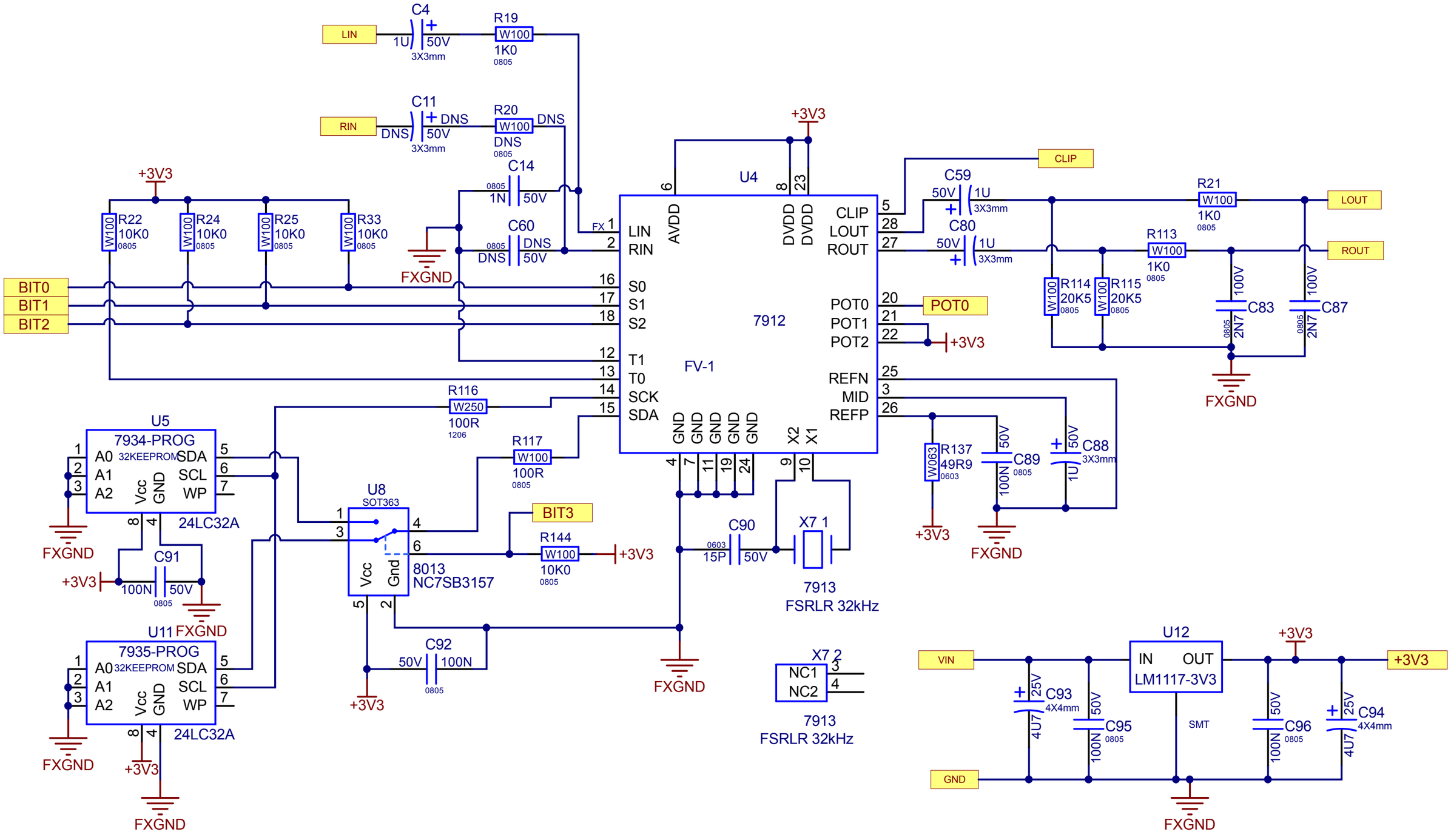


Section: Stereo Channels G-H			
Product(s): M1610-2,M810-2			
PCB#: M2188	**Rev#:** V01	**En :** G. Atwood	**Sheet** 9 **Of** 23
Modified: 2022-12-22	**File:** Stereo Ch.SCHDOC		



MSNE-12-01

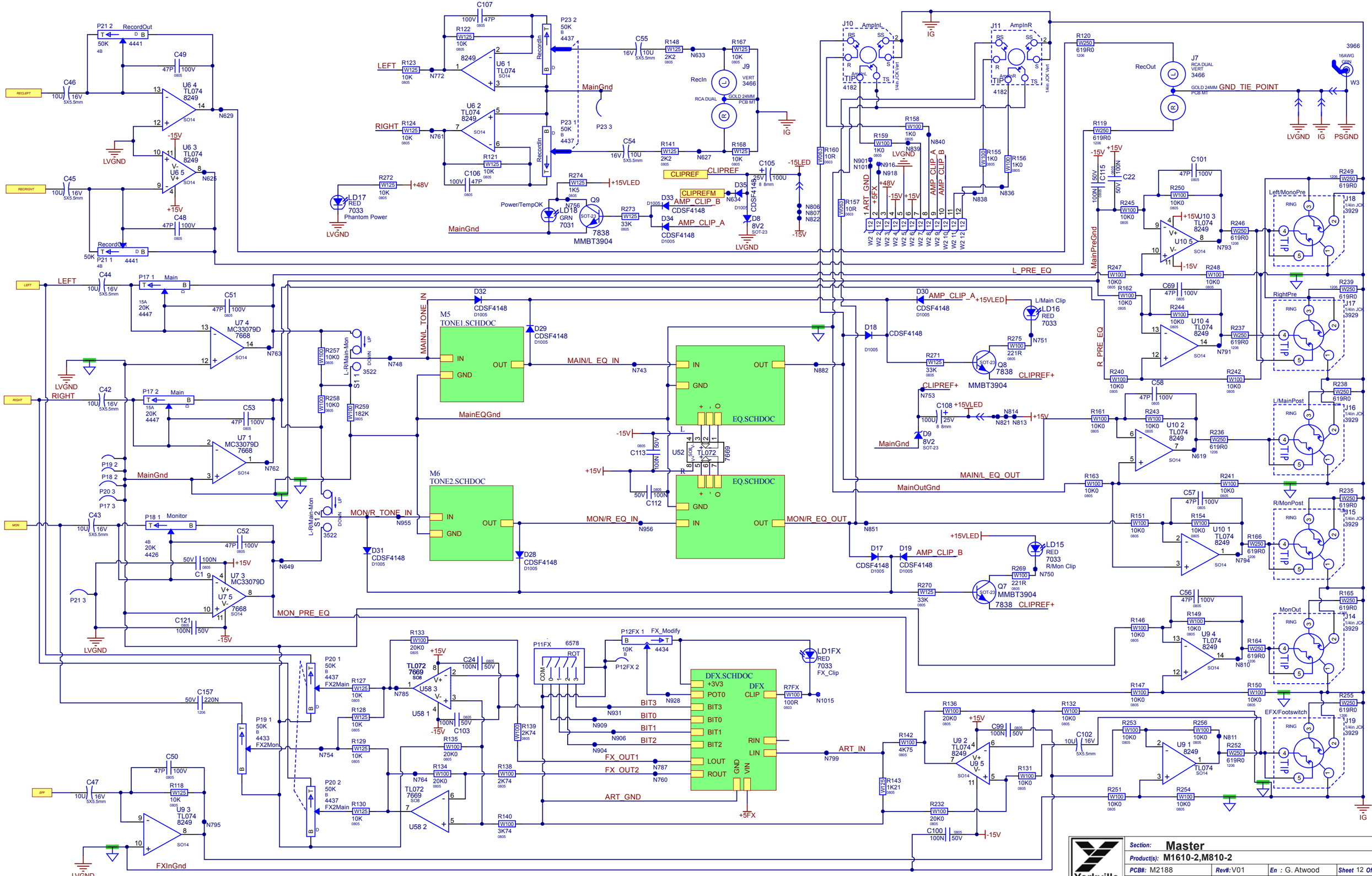
Section: BreakSwitch			
Product(s): M1610-2,M810-2			
PCB#: M2188	**Rev#:** V01	**En :** G. Atwood	**Sheet** 10 **Of** 23
Modified: 2022-12-22	**File:** BreakMute.SCHDOC		

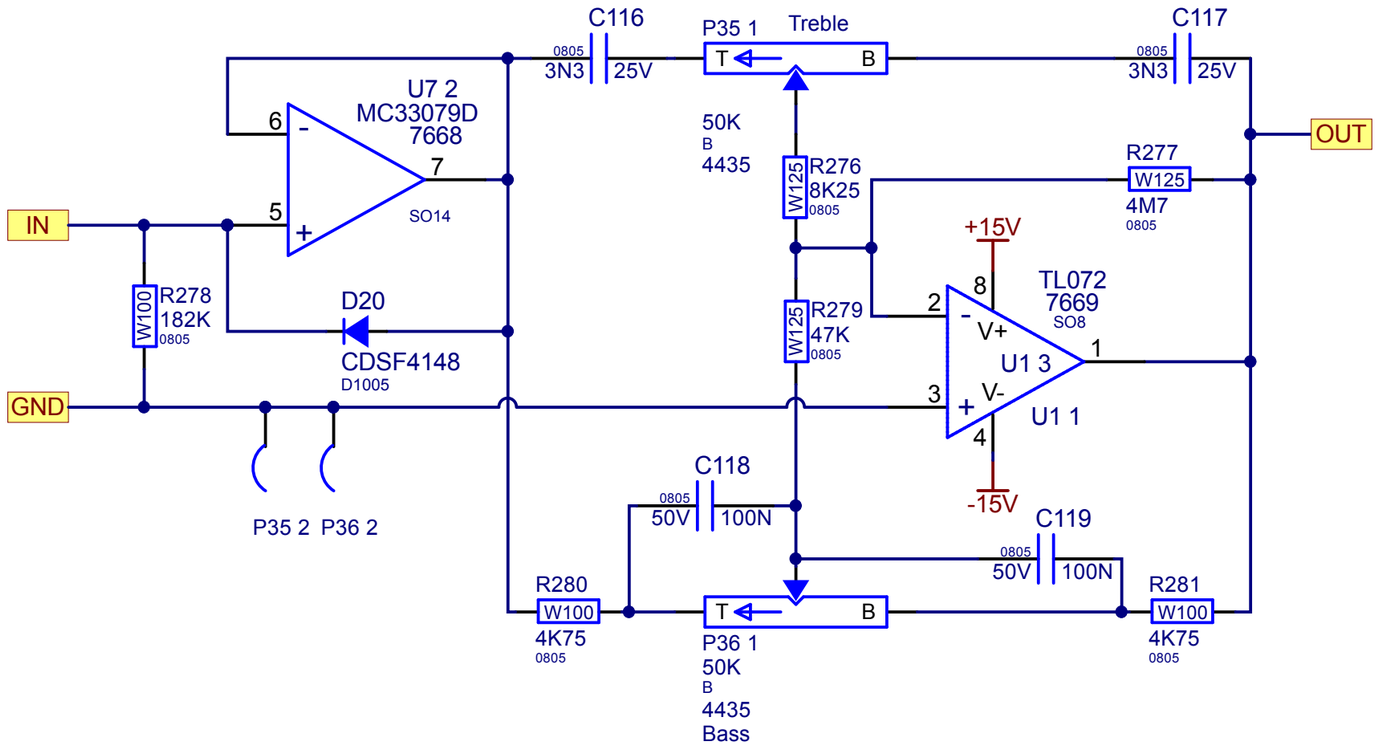


ALL RESISTORS ARE 1% UNLESS OTHERWISE NOTED

Yorkville

Section: Digital Effects			
Product(s): M1610-2,M810-2			
PCB#: M2188	**Rev#:** V01	**En :** G. Atwood	**Sheet** 11 **Of** 23
Modified: 2023-01-26	**File:** DFX.SCHDOC		


RECLEFT
RECRIGHT
LEFT
RIGHT
MON
EFF
P21 2 RecordOut
P21 1 RecordOut
P17 1 Main
P17 2 Main
P18 1 Monitor
P18 2
P19 2
P20 3
P17 3
P21 3
C46 10U 16V 5X5.5mm
C45 10U 16V 5X5.5mm
C44 10U 16V 5X5.5mm
C42 10U 16V 5X5.5mm
C43 10U 16V 5X5.5mm
C47 10U 16V 5X5.5mm
C49 47P 100V 0805
C48 47P 100V 0805
C51 47P 100V 0805
C53 47P 100V 0805
C52 47P 100V 0805
C50 47P 100V 0805
C121 100N 50V 0805
C157 50V 220N 1206
U6 4 TL074 8249 SO14
U6 3 TL074 8249 SO14
U6 5 TL074 8249 SO14
U7 4 MC33079D 7668 SO14
U7 1 MC33079D 7668 SO14
U7 3 MC33079D 7668 SO14
U9 3 TL074 8249 SO14
N629
N625
N763
N762
N649
N795
-15V
+15V
LVGND
MainGnd
C107 100V 47P 0805
R122 W125 10K 0805
R123 W125 10K 0805
R124 W125 10K 0805
R121 W125 10K 0805
C106 100V 47P 0805
U6 1 TL074 8249 SO14
U6 2 TL074 8249 SO14
LEFT
RIGHT
N772
N761
Recordin
P23 2 50K B 4437
P23 1 50K B 4437
P23 3
MainGnd
C55 16V 10U 5X5.5mm
C54 16V 10U 5X5.5mm
R148 W125 2K2 0805
R141 W125 2K2 0805
R167 W125 10K 0805
R168 W125 10K 0805
N633
N627
J9 VERT 3466
RecIn
RCA DUAL
GOLD 24MM PCB MT
IG
R272 W125 10K 0805
+48V
D17 RED 7033 Phantom Power
LVGND
Power/TempOK
R274 W125 1K5 0805
+15VLED
Q9 SOT-23 7838 MMBT3904
N756
R273 W125 33K 0805
CLIPREF
CLIPREFM
D33 AMP_CLIP_B CDSF4148 D1005
D34 AMP_CLIP_A CDSF4148 D1005
D35 CDSF4148 D1005
C105 25V 100U 8 8mm
-15LED
N806
N807
N822
R160 W063 10R 0603
R157 W063 10R 0603
J10 AmpInL
J11 AmpInR
RS SS R S TIP TS
4182
1/4in JCK Vert
IG
R158 W100 1K0 0805
R159 W100 1K0 0805
N839
N840
N901
N1011
N916
N918
LVGND
+48V
1 ART GND
+5FX
-15V
+15V
AMP_CLIP_A
AMP_CLIP_B
W2 1 12 W2 2 12 W2 3 12 W2 4 12 W2 5 12 W2 6 12 W2 7 12 W2 8 12 W2 9 12 W2 10 12 W2 11 12 W2 12 12
R155 W100 1K0 0805
R156 W100 1K0 0805
N838
N836
R120 W250 619R0 1206
RecOut
J7 RCA DUAL VERT 3466
GOLD 24MM PCB MT
GND TIE POINT
3966 16AWG GRN
W3
LVGND IG PSGND
R119 W250 619R0 1206
C115 50V 100N 0805
C22 50V 100N 0805
C101 47P 100V 0805
R250 W100 10K0 0805
R245 W100 10K0 0805
U10 3 TL074 8249 SO14
U10 5
R246 W250 619R0 1206
N793
Left/MonoPre
J18 1/4in JCK 3929
RING TIP
R249 W250 619R0 1206
MainPreGnd
L_PRE_EQ
R_PRE_EQ
R247 W100 10K0 0805
R248 W100 10K0 0805
R162 W100 10K0 0805
C69 47P 100V 0805
R244 W100 10K0 0805
U10 4 TL074 8249 SO14
R237 W250 619R0 1206
N791
R240 W100 10K0 0805
R242 W100 10K0 0805
C58 47P 100V 0805
RightPre
R239 W250 619R0 1206
J17 1/4in JCK 3929
L/MainPost
R238 W250 619R0 1206
J16 1/4in JCK 3929
EFX/Footswitch
R255 W250 619R0 1206
J19 1/4in JCK 3929
R_MonPost
R235 W250 619R0 1206
J15 1/4in JCK 3929
MonOut
R165 W250 619R0 1206
J14 1/4in JCK 3929
R164 W250 619R0 1206
N810
R146 W100 10K0 0805
R147 W100 10K0 0805
R149 W100 10K0 0805
U9 4 TL074 8249 SO14
R150 W100 10K0 0805
R136 W100 20K0 0805
R132 W100 10K0 0805
C99 100N 0805 50V
U9 2 TL074 8249 SO14
U9 5
R131 W100 10K0 0805
C100 100N 0805 50V
R253 W100 10K0 0805
R256 W100 10K0 0805
U9 1 TL074 8249 SO14
N811
R252 W250 619R0 1206
R251 W100 10K0 0805
R254 W100 10K0 0805
C102 10U 16V 5X5.5mm
R142 W100 4K75 0805
R143 W125 1K21 0805
R232 W100 20K0 0805
ART_IN
N799
R7FX W100 100R 0603
N1015
LD1FX RED 7033 FX_Clip
P11FX 6578 ROT COM 0 1 2 3
P12FX 1 FX_Modify B 10K B 4434
P12FX 2
DFX.SCHDOC
+3V3
POT0
BIT3
BIT0
BIT1
BIT2
LOUT
ROUT
GND
VIN
DFX
CLIP
RIN
LIN
BIT3
BIT0
BIT1
BIT2
N928
N931
N909
N906
N904
FX_OUT1
FX_OUT2
N787
N760
ART_GND
+5FX
P20 1 50K B 4437 FX2Main
P20 2 50K B 4437 FX2Main
P19 1 50K B 4433 FX2Mon
R127 W125 10K 0805
R128 W125 10K 0805
R129 W125 10K 0805
R130 W125 10K 0805
R133 W100 20K0 0805
R135 W100 20K0 0805
R134 W100 20K0 0805
R138 W100 2K74 0805
R140 W100 3K74 0805
R139 W100 2K74 0805
C24 100N 0805 50V
C103 100N 0805 50V
U58 3
U58 1
U58 2
TL072 7669 SO8
N785
N764
N754
R118 W125 10K 0805
C108 +15VLED 100U 25V 8 8mm
N814
N821
N813
D9 8V2 SOT-23
MainGnd
D30 AMP_CLIP_A CDSF4148 D1005
D18 CDSF4148 D1005
LD16 RED 7033 L/Main Clip
R275 W100 221R 0805
Q8 SOT-23 7838 MMBT3904
CLIPREF+
N751
R271 W125 33K 0805
N753
D17 CDSF4148 D1005
D19 AMP_CLIP_B CDSF4148 D1005
+15VLED
LD15 RED 7033 R/Mon Clip
R269 W100 221R 0805
N750
Q7 SOT-25 MMBT3904 7838 CLIPREF+
R270 W125 33K 0805
N851
MAIN/L_EQ_OUT
MainOutGnd
R163 W100 10K0 0805
R241 W100 10K0 0805
R151 W100 10K0 0805
R154 W100 10K0 0805
U10 1 TL074 8249 SO14
R166 W250 619R0 1206
N794
C57 47P 100V 0805
C56 47P 100V 0805
R161 W100 10K0 0805
R243 W100 10K0 0805
U10 2 TL074 8249 SO14
R236 W250 619R0 1206
N619
MAIN_L_TONE_IN
MAIN/L_EQ_IN
N748
N743
N882
D32 CDSF4148 D1005
D29 CDSF4148 D1005
D31 CDSF4148 D1005
D28 CDSF4148 D1005
M5 TONE1.SCHDOC
M6 TONE2.SCHDOC
IN OUT GND
MainEQGnd
MON_TONE_IN
MON/R_EQ_IN
MON/R_EQ_OUT
N955
N956
L_R/Main-Mon
S1 1 3522
S1 2 3522
UP DOWN
R257 W100 10K0 0805
R258 W100 10K0 0805
R259 W100 182K 0805
C113 50V 100N 0805
C112 50V 100N 0805
U52 TL072 7669
EQ.SCHDOC
L
R
MON_PRE_EQ
FXInGnd
Section: Master
Product(s): M1610-2,M810-2
PCB#: M2188
Rev#: V01
En : G. Atwood
Sheet 12 Of 23
Modified: 2023-02-22
File: Master.SCHDOC
Yorkville

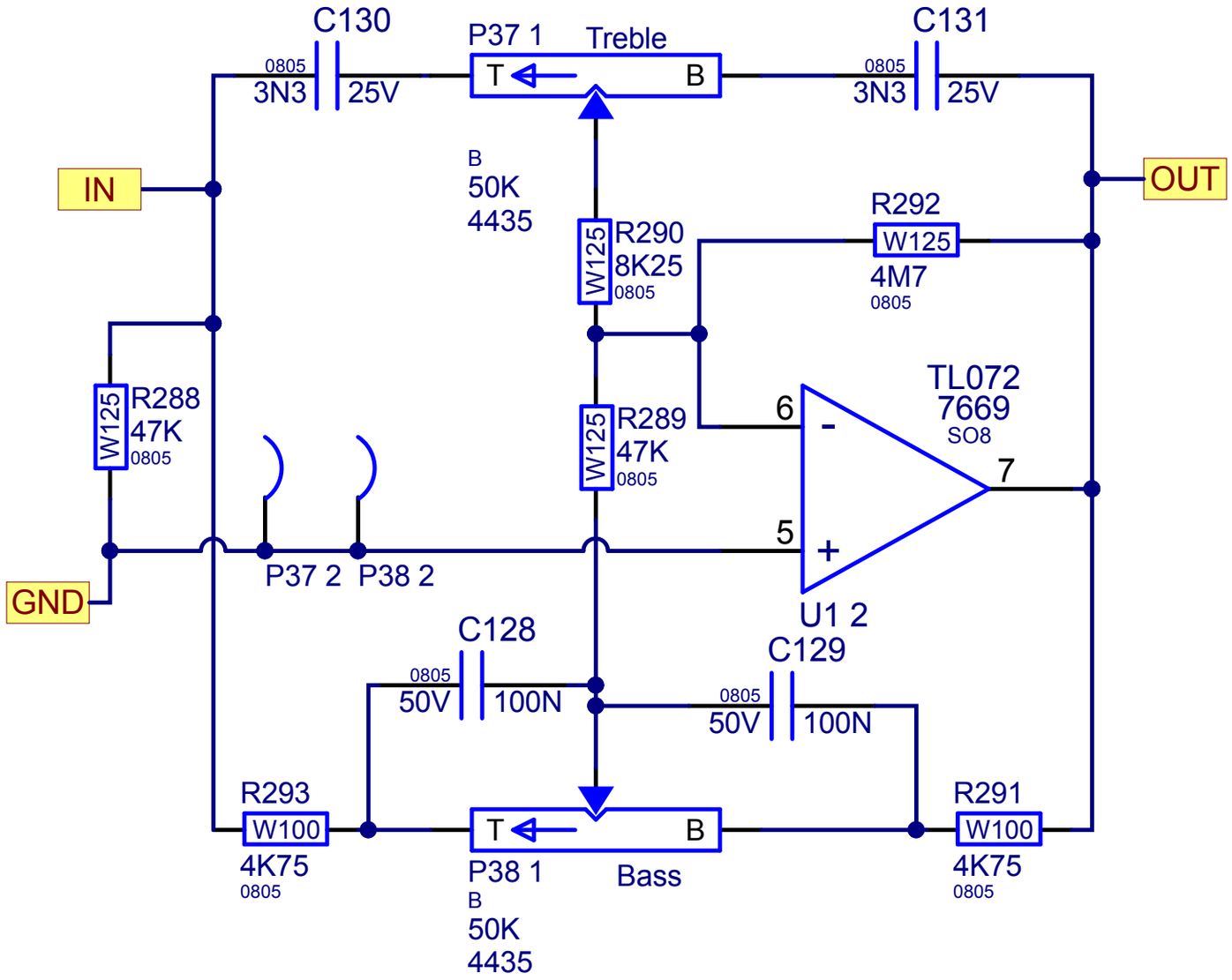


Yorkville

Section: Tone - Left

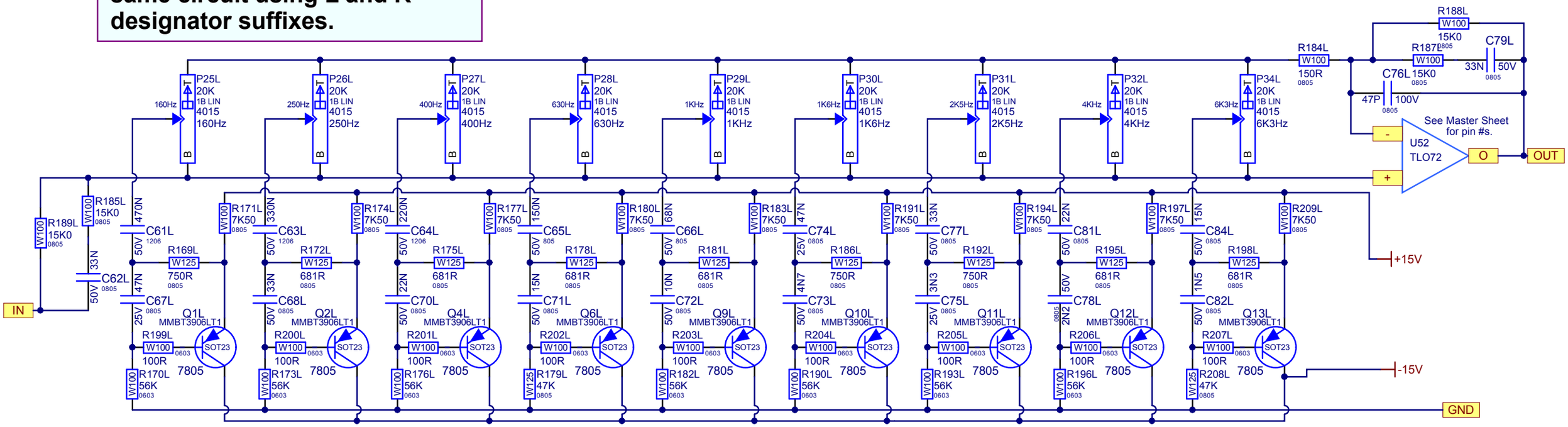
Product(s): M1610-2,M810-2

PCB#: M2188	**Rev#:** V01	**En :** G. Atwood	**Sheet** 13 **Of** 23
Modified: 2022-12-22	**File:** TONE1.SCHDOC		



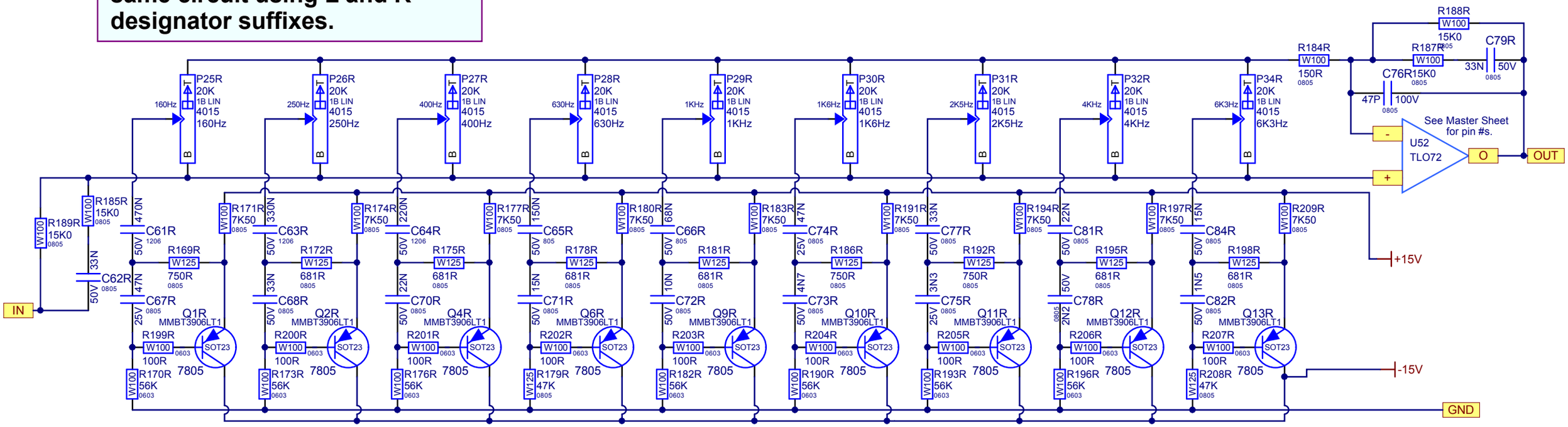
Yorkville	**Section:** Tone - Right		
	Product(s): M1610-2,M810-2		
PCB#: M2188	**Rev#:** V01	**En :** G. Atwood	**Sheet** 14 **Of** 23
Modified: 2022-12-22	**File:** TONE2.SCHDOC		

Only one EQ Channel is shown. Left and Right employ the same circuit using L and R designator suffixes.

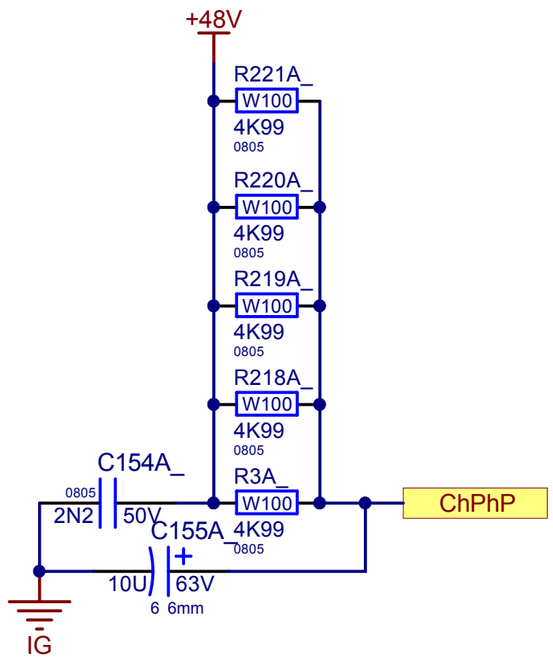


Yorkville	**Section:** Graphic EQ L&R		
	Product(s): M1610-2,M810-2		
	PCB#: M2188	**Rev#:** V01	**En :** G. Atwood	**Sheet** 15 **Of** 23
	Modified: 2022-12-22	**File:** EQ.SCHDOC	

Only one EQ Channel is shown. Left and Right employ the same circuit using L and R designator suffixes.



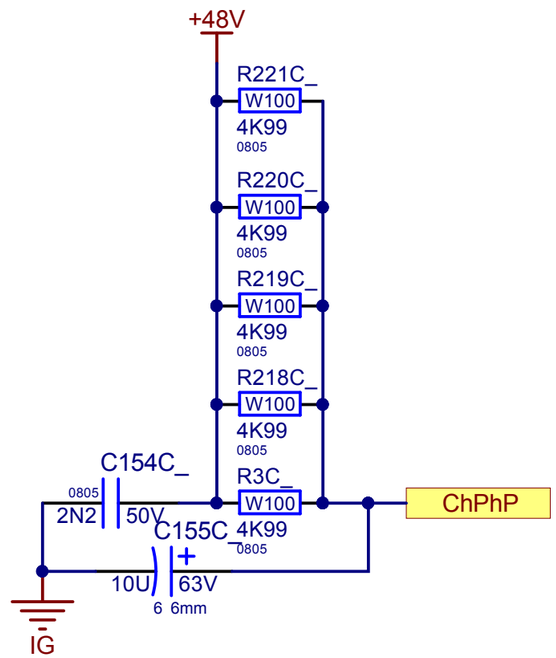
Yorkville	**Section:** Graphic EQ L&R		
	Product(s): M1610-2,M810-2		
	PCB#: M2188	**Rev#:** V01	**En :** G. Atwood	**Sheet** 16 **Of** 23
	Modified: 2022-12-22	**File:** EQ.SCHDOC	



Only one circuit is shown.
Each pair of Channels shares one of this circuit.
A_ parts for Ch A&B,
C_ parts for Ch C&D ect.

Yorkville

Section: Phantom Pwr Filter			
Product(s): M1610-2,M810-2			
PCB#: M2188	**Rev#:** V01	**En :** G. Atwood	**Sheet** 17 **Of** 23
Modified: 2022-12-22	**File:** PhantomFilter.SchDoc		



Only one circuit is shown.
Each pair of Channels shares one of this circuit.
A_ parts for Ch A&B,
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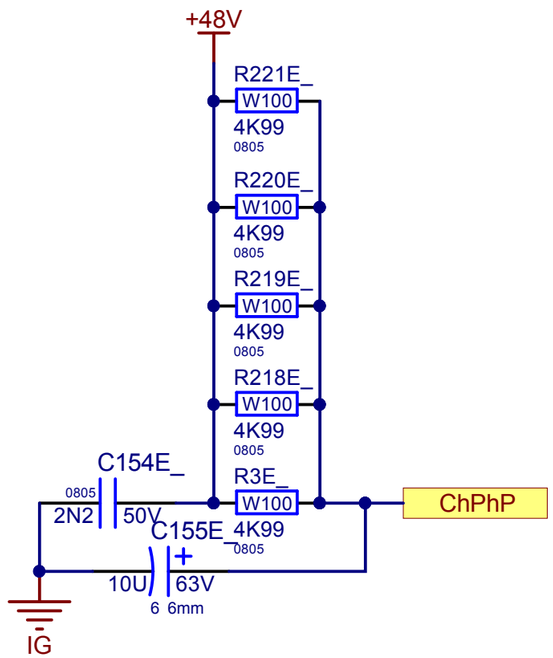
Yorkville

Section: **Phantom Pwr Filter**			
Product(s): **M1610-2,M810-2**			
PCB#: M2188	*Rev#:* V01	*En :* G. Atwood	*Sheet* 18 *Of* 23
Modified: 2022-12-22	*File:* PhantomFilter.SchDoc		



Only one circuit is shown.
Each pair of Channels shares one of this circuit.
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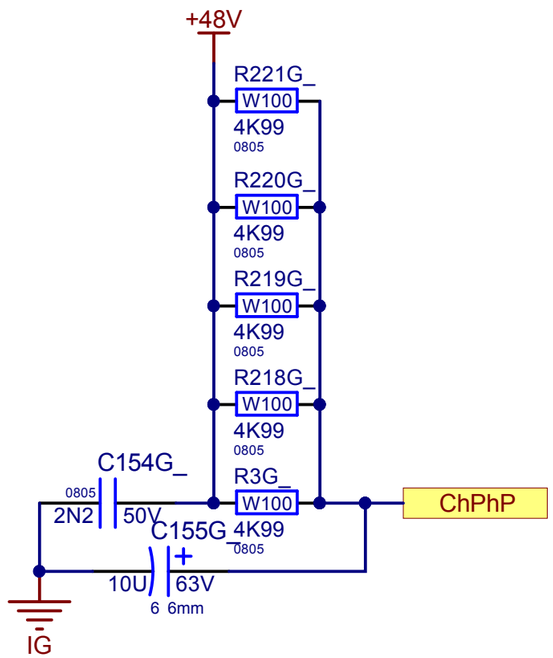
Yorkville

Section: **Phantom Pwr Filter**			
Product(s): **M1610-2,M810-2**			
PCB#: M2188	*Rev#:* V01	*En :* G. Atwood	*Sheet* 19 *Of* 23
Modified: 2022-12-22	*File:* PhantomFilter.SchDoc		



Only one circuit is shown.
Each pair of Channels shares one of this circuit.
A_ parts for Ch A&B,
C_ parts for Ch C&D ect.

Yorkville

Section: **Phantom Pwr Filter**			
Product(s): **M1610-2,M810-2**			
PCB#: M2188	*Rev#:* V01	*En :* G. Atwood	*Sheet* 20 *Of* 23
Modified: 2022-12-22	*File:* PhantomFilter.SchDoc		

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	01-MAR-2023	V01	.	RELEASED FOR PRODUCTION
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P25-34 L&R	Graphic EQ	4015	S24	N/A
P1A,1B,1C,1D,1E,1F	Trim	4443	P32	9915
P9G,9H (Monitor sends on stereo channels)	Mon	4443	P32	9917
P5A,5B,5C,5D,5E,5F	Level	4432	P32	9920
P15G,15H,6A,6B,6C,6D,6E,6F	EFX	4433	P32	9918
P7A,7B,7C,7D,7E,7F (Monitor sends on mono channels)	Mon	4433	P32	9917
P3A-F,4A-F (Hi / Mid on mono channels)	Hi, Mid	4434	P32	9916
P16G,16H, 8A-F	Bal, Pan	4434	P32	9919
P2A,2B,2C,2D,2E,2F (Lo on mono channels)	Lo	4435	P32	9916
P35,36,37,38	Graphic EQ Lo, Hi	4435	P32	9916
P21	Rec Out	4441	P34	9920
P20	MAIN EFX Return	4437	P34	9920
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P13G,13H,14G,14H (Hi / Mid on stereo channels)	Hi, Mid	4438	P34	9916
P12G,12H (Lo on stereo channels)	Lo	4439	P34	9916
P11FX	EFX Select	6587	P23	8397
P23	Tape/CD	4437	P34	9915
P18 (Master monitor send)	MON	4426	P34	9917
P19	MON EFX Return	4433	P32	9917
P17 (L&R master level)	MAIN	4447	P34	9920
P12FX	MODIFY EFX	4434	P32	9918
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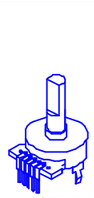
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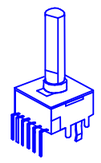
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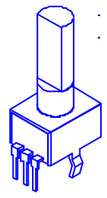
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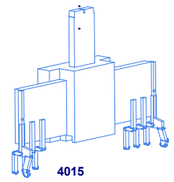
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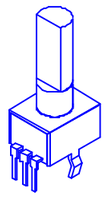
"STYLE_P32"

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

Into Wave

BlankSi e - 453.0mm 258.0mm 10.157x17.834

DRV 01

M2188 V01 M1610-2,M810-2

VCD

M1610-2,M810-2
M2188
V01

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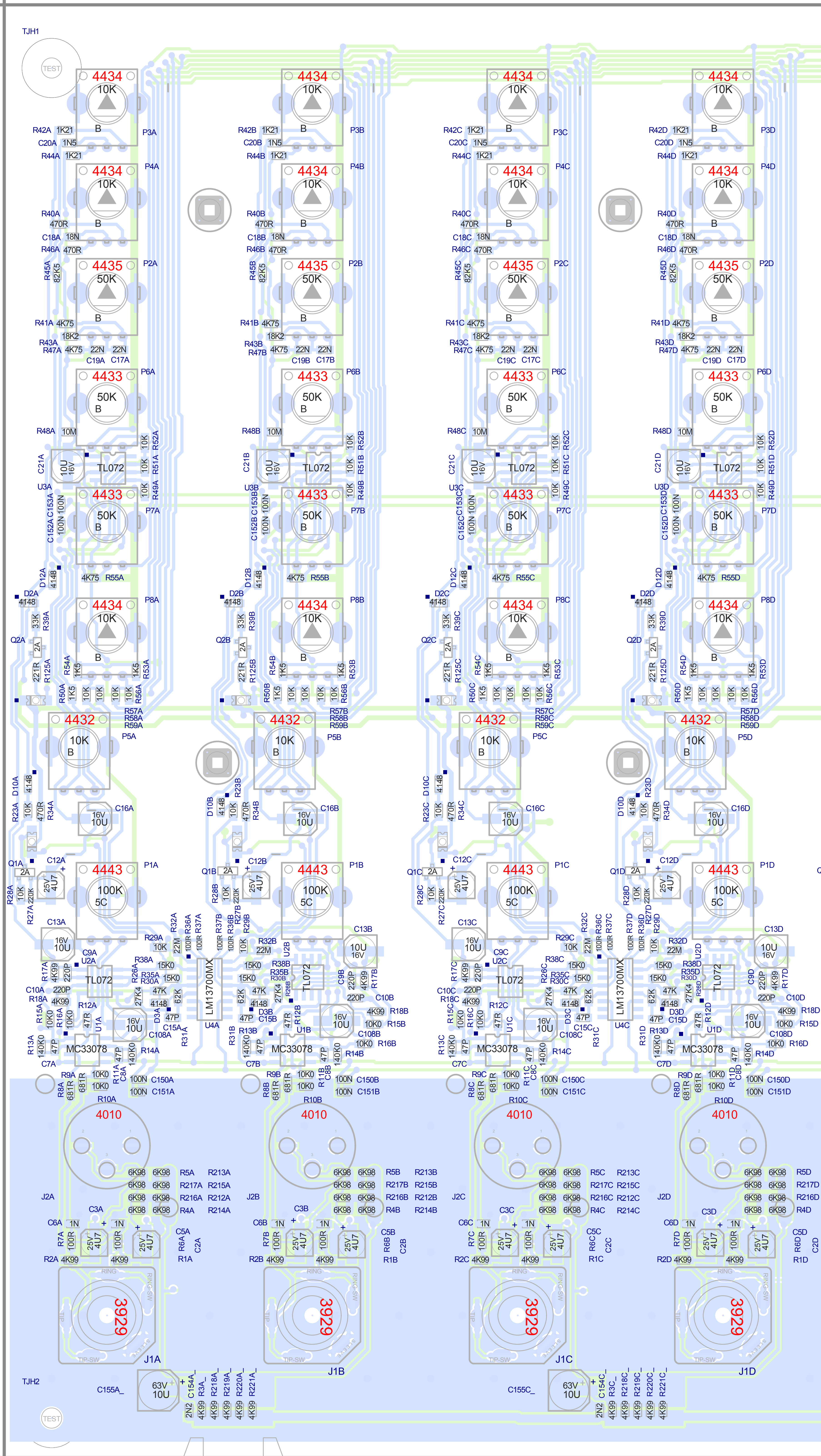

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B
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R42A 1K21
C20A 1N5
R44A 1K21
P4A
R40A
470R
C18A 18N
R46A 470R
4435
50K
P2A
R45A 82K5
R41A 4K75
18K2
R43A
R47A 4K75 22N 22N
C19A C17A
4433
P6A
R48A 10M
C21A
10U 16V
TL072
U3A
R52A
R51A
R49A
P7A
C152A C153A
100N 100N
D12A 4148
4K75 R55A
D2A
P8A
Q2A
R39A
R125A
R54A
R53A
R50A
R56A
R57A
R58A
R59A
4432
P5A
D10A
R23A
R34A
C16A
Q1A
C12A
R28A
R27A
4443
100K
5C
P1A
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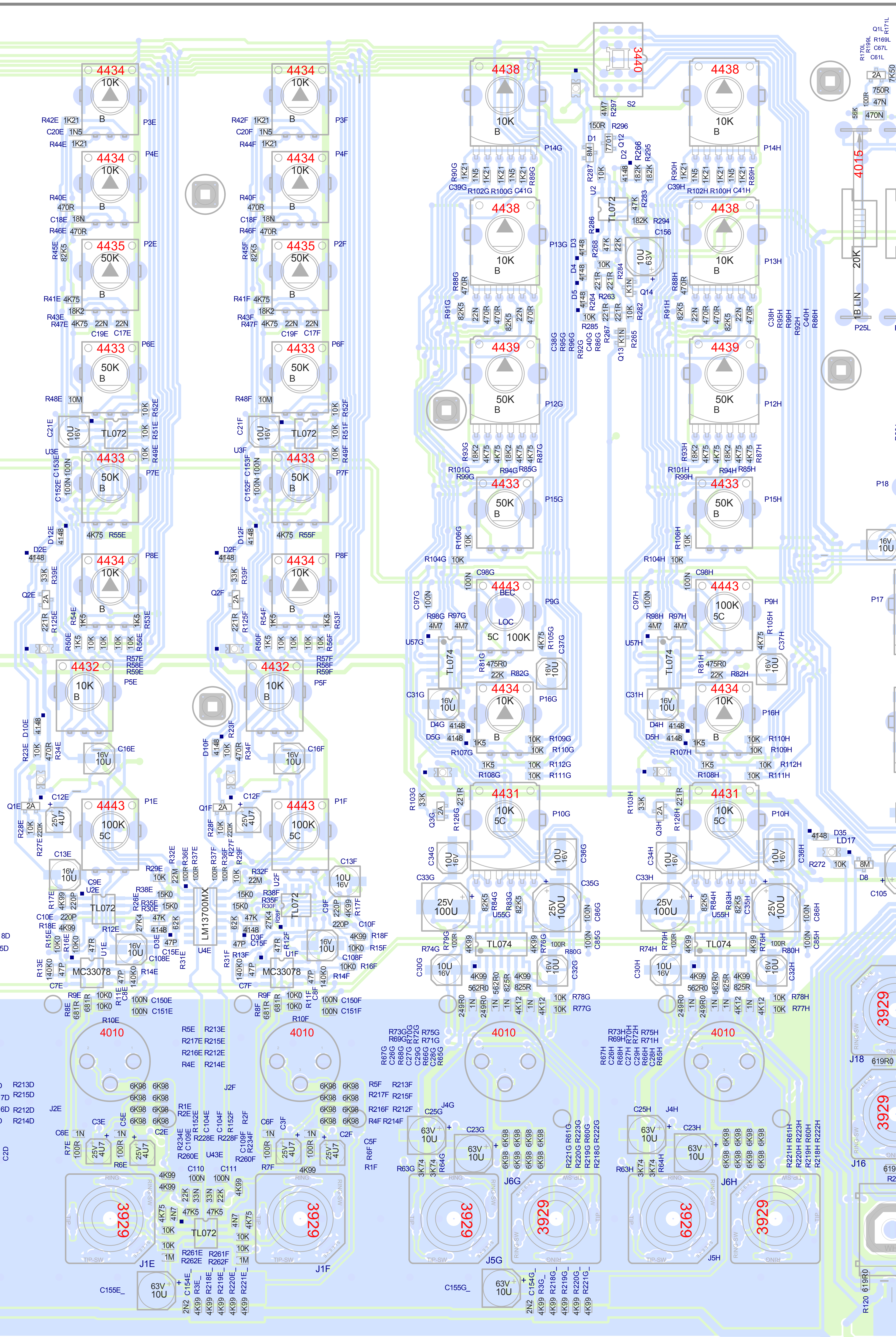
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C20F 1N5
R44F 1K21
R40E 470R
C18E 18N
R46E 470R
R40F 470R
C18F 18N
R46F 470R
4435
50K
P2E
P2F
R45E 82K5
R45F 82K5
R41E 4K75
18K2
R43E
R47E 4K75 22N 22N
C19E C17E
R41F 4K75
R43F
R47F 4K75 22N 22N
C19F C17F
4433
P6E
P6F
R48E 10M
R48F 10M
C21E 10U 16V
C21F 10U 16V
TL072
U3E
U3F
10K R52E
10K R51E
10K R49E
10K R52F
10K R51F
10K R49F
P7E
P7F
C152E C153E 100N 100N
C152F C153F 100N 100N
4K75 R55E
4K75 R55F
D12E 4148
D12F 4148
D2E 4148
D2F 4148
P8E
P8F
33K R39E
33K R39F
Q2E 2A
Q2F 2A
221R R125E
221R R125F
R54E 1K5 1K5 R53E
R54F 1K5 1K5 R53F
R50E 1K5 10K 10K 10K 10K R56E
R50F 1K5 10K 10K 10K 10K R56F
R57E R58E R59E
R57F R58F R59F
4432
P5E
P5F
D10E 4148
D10F 4148
R23E 10K 470R R34E
R23F 10K 470R R34F
C16E 16V 10U
C16F 16V 10U
C12E
C12F
Q1E 2A
Q1F 2A
25V 4U7
4443
100K
5C
P1E
P1F
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R28F 10K 220K R27F
C13E 16V 10U
C13F 10U 16V
R29E 10K
R32E 22M
R36E 100R
R37E 100R
R37F 100R
R36F 100R
R29F 10K
R32F 22M
C9E
U2E
U2F
C9F
R38E 15K0
R35E R30E 15K0
R38F 15K0
R35F R30F 15K0
R26E 27K4
R26F 27K4
47K
62K
4148
D3E 47P C15E
D3F 47P C15F
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R17F 4K99 220P
C10E 220P
C10F 220P
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R18F 4K99
R12E
R12F 47R
R15E 10K0
R16E 10K0
R15F 10K0
R16F 10K0
47R U1E
U1F
C108E
C108F
R31E
R31F
R13E 140K0 47P
R13F 140K0 47P
MC33078
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R14F 140K0 47P
C7E
C7F
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R9F 681R 10K0
R8E 681R 10K0
R8F 681R 10K0
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R11F C8F
100N C150E
100N C151E
100N C150F
100N C151F
R10E
R10F
4010
R5E R213E
R217E R215E
R216E R212E
R4E R214E
R5F R213F
R217F R215F
R216F R212F
R4F R214F
R213D
R215D
R212D
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C3F
C6E 1N
C6F 1N
1N
C2E
C2F
R7E 100R
R7F 100R
R6E 100R
R6F
R1F
C5F
R1E R2E
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R234E C109E R228E R228F C109F R234F
R260E U43E R260F
C110 100N
C111 100N
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1M
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R261F R262F
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RING-SW
TIP
TIP-SW
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J1F
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2N2 C154E_ R3E_ R218E_ R219E_ R220E_ R221E_
4K99
4438
P14G
P14H
P13G
P13H
3440
S2
4M7 R297
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D1 8M
7701 Q12
D2
R287 10K
4148
R266 182K
R295 182K
U2
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R286
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R268 47K 22K
10K
10U 63V
D4 4148
221R 221R
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D5 4148
R264 R263
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10K R285
R267
K1N Q13
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C39G R102G R100G C41G
R90H 1K21 1N5 1K21 1K21 1N5 1K21 R89H
C39H R102H R100H C41H
R88G 470R
R91G 82K5 22N 470R 470R 82K5 22N 470R
R88H 470R
R91H 82K5 22N 470R 470R 82K5 22N 470R
C38G R95G R96G R92G C40G R86G
C38H R95H R96H R92H C40H R86H
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P12H
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R93H 18K2 4K75 4K75 18K2 4K75 4K75 R87H
R101G R99G R94G R85G
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P15G
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BEC
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P9H
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U57G
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D4H 4148
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R107H
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P10H
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R103H 33K
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Q3H 2A
R126G 221R
R126H 221R
C34G 10U 16V
C34H 10U 16V
C36G
C36H
C33G
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C32H
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10K R78H
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J4H
C25G
C25H
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R221H R61H R220H R223H R219H R60H R218H R222H
J6G
J6H
J5G
J5H
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R169L
C67L
C61L
R170L R199L
2A
7K50
750R
47N
470N
100R
56K
4015
20K
1B LIN
P25L
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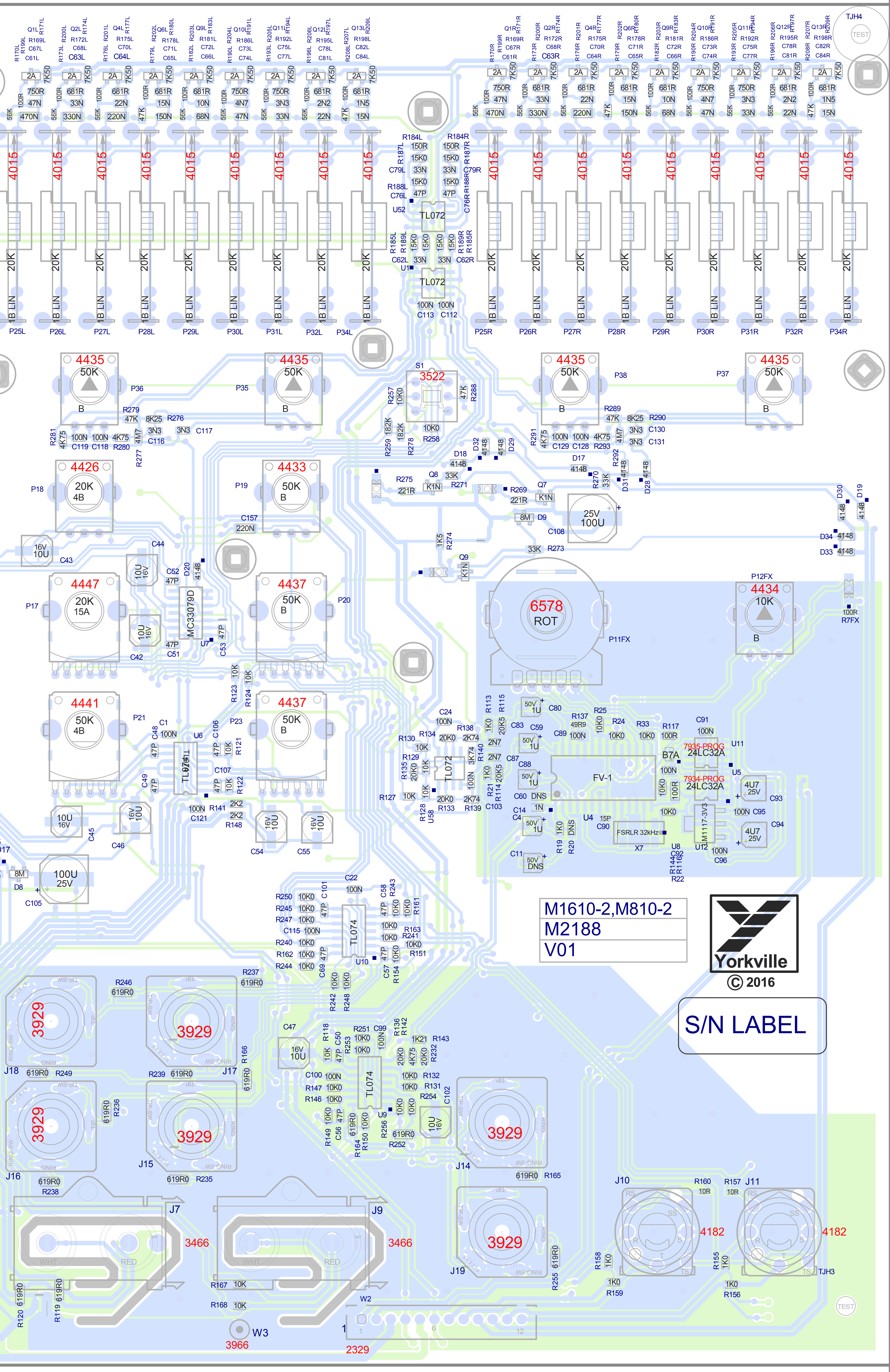
R120


M1610-2,M810-2
M2188
V01
Yorkville
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PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. Wave solder jig MUST be used at all times for proper component alignment.

PCB HARDWARE

SCREWS AND BOLTS	*NUTS*	*STANDOFFS*	*MISCELLANEOUS*

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

Yorkville

Section: **Assembly Documentation**			
Product(s): **M1610-2,M810-2**			
PCB#: M2188	*Rev#:* V01	*En :* G. Atwood	*Sheet* 5 *Of* 6
Modified: 2022-12-22	*File:* Assembly.SchDoc		

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

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

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
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P5A,5B,5C,5D,5E,5F	Level	4432	P32	9920
P15G,15H,6A,6B,6C,6D,6E,6F	EFX	4433	P32	9918
P7A,7B,7C,7D,7E,7F (Monitor sends on mono channels)	Mon	4433	P32	9917
P3A-F,4A-F (Hi / Mid on mono channels)	Hi, Mid	4434	P32	9916
P16G,16H, 8A-F	Bal, Pan	4434	P32	9919
P2A,2B,2C,2D,2E,2F (Lo on mono channels)	Lo	4435	P32	9916
P35,36,37,38	Graphic EQ Lo, Hi	4435	P32	9916
P21	Rec Out	4441	P34	9920
P20	MAIN EFX Return	4437	P34	9920
.	.	.	.	.
P13G,13H,14G,14H (Hi / Mid on stereo channels)	Hi, Mid	4438	P34	9916
P12G,12H (Lo on stereo channels)	Lo	4439	P34	9916
P11FX	EFX Select	6587	P23	8397
P23	Tape/CD	4437	P34	9915
P18 (Master monitor send)	MON	4426	P34	9917
P19	MON EFX Return	4433	P32	9917
P17 (L&R master level)	MAIN	4447	P34	9920
P12FX	MODIFY EFX	4434	P32	9918
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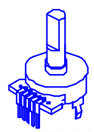
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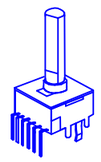
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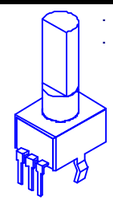
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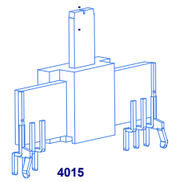
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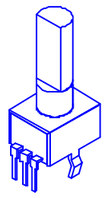
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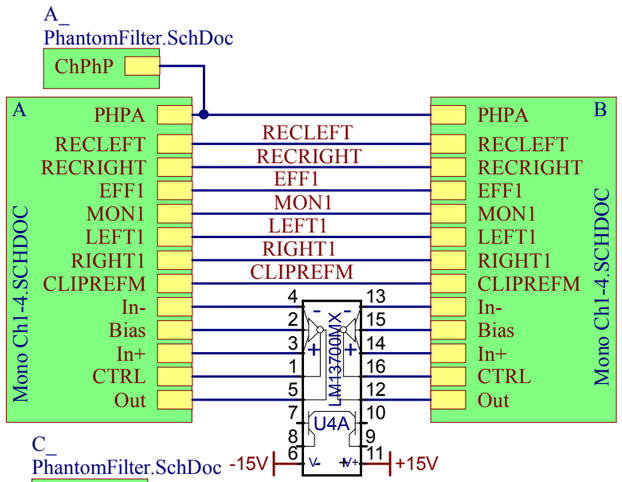
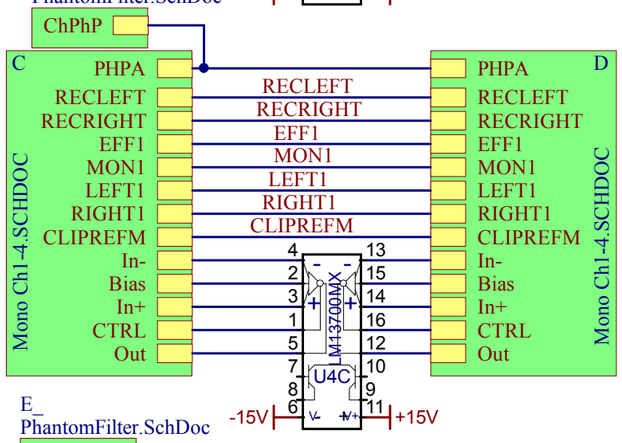
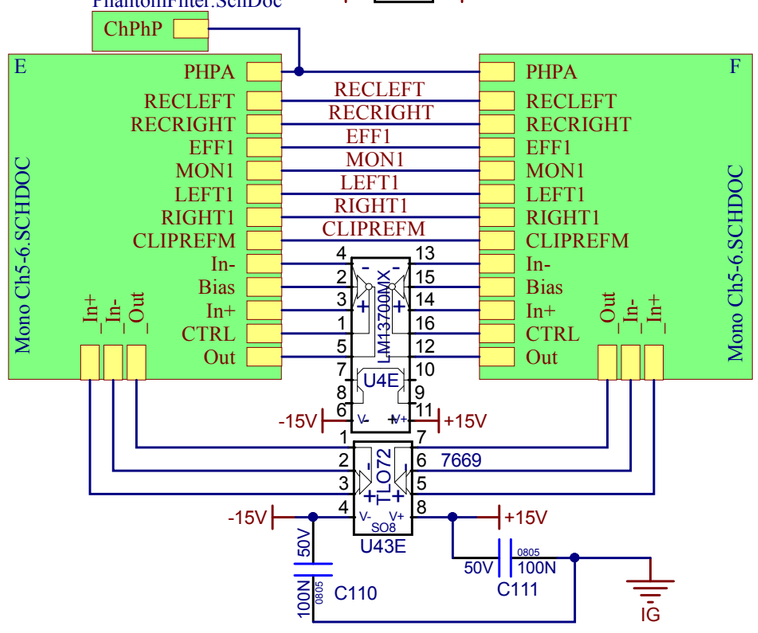
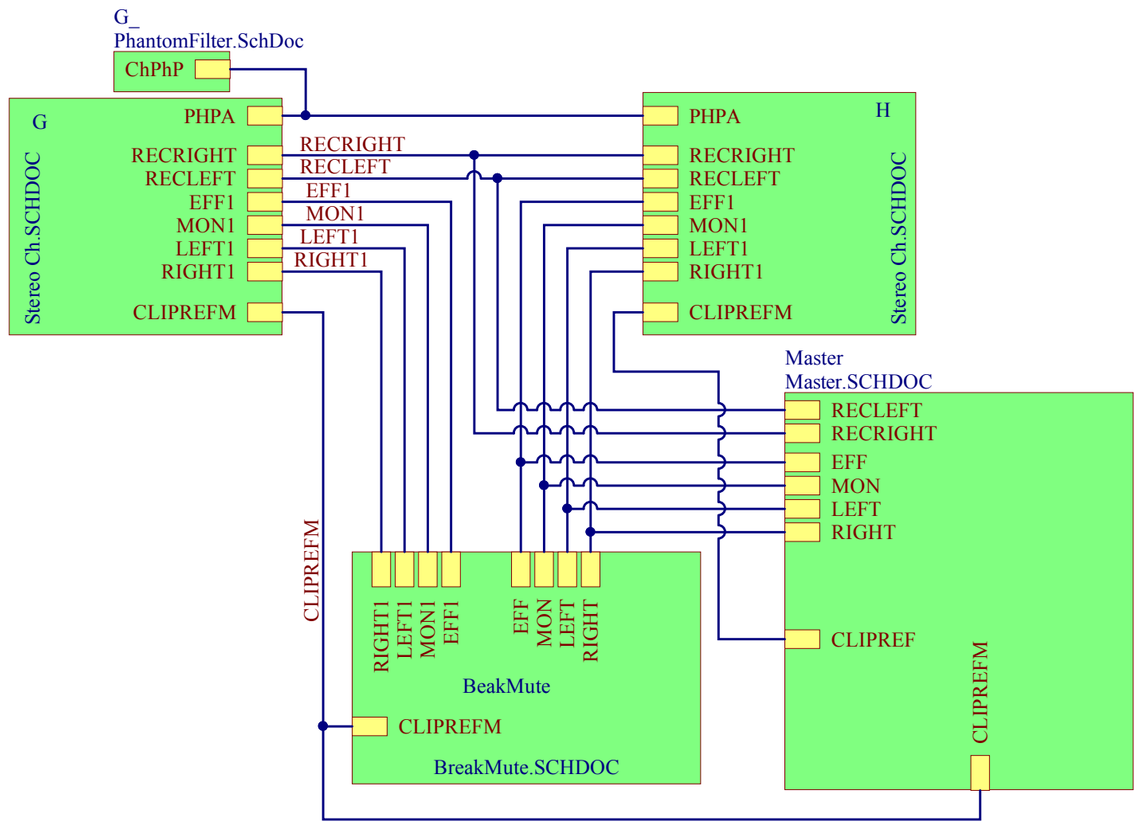
THIS SHEET CONTAINS A CHANGE HISTORY LOG,
A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.









Yorkville

1032
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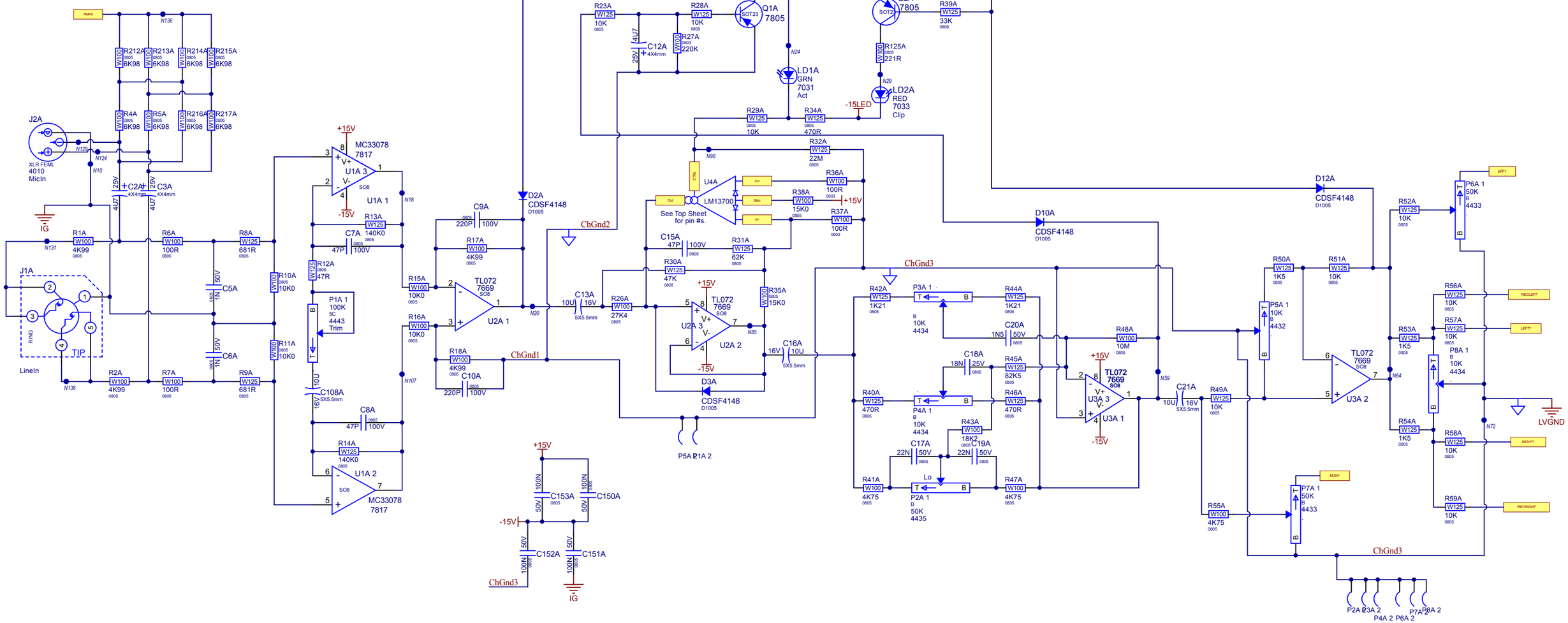
www.yorkville.com

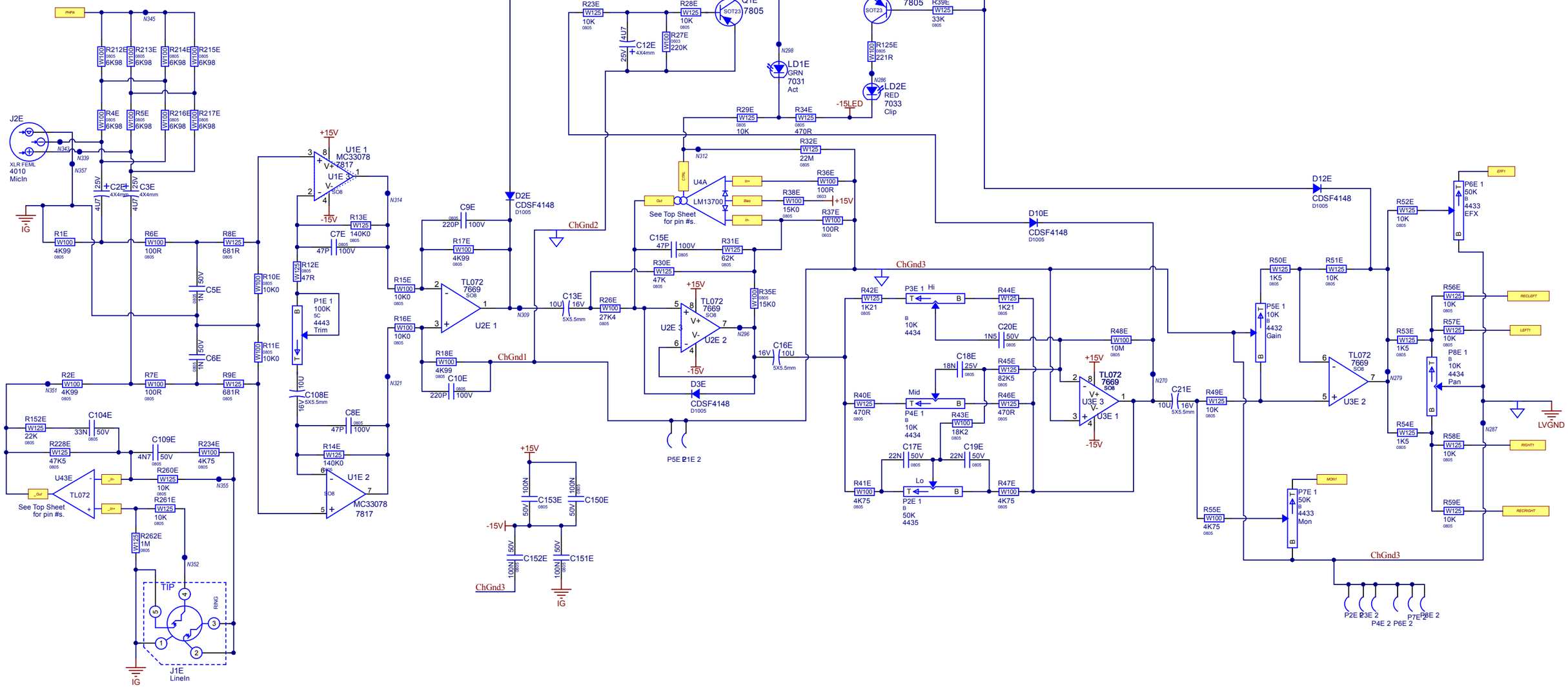
Product(s):	**M1610-2,M810-2**				
Description:	**Powered Mixer**				
PCB#: M2388	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 1 **Of** 23		
Modified: 4/17/2024	**File:** TopSheet.SchDoc		**Tmp Rev:** V031		

Only one Mono Channel is shown. Channels 1 to 4 employ the same circuit using A,B,C and D designator suffixes.



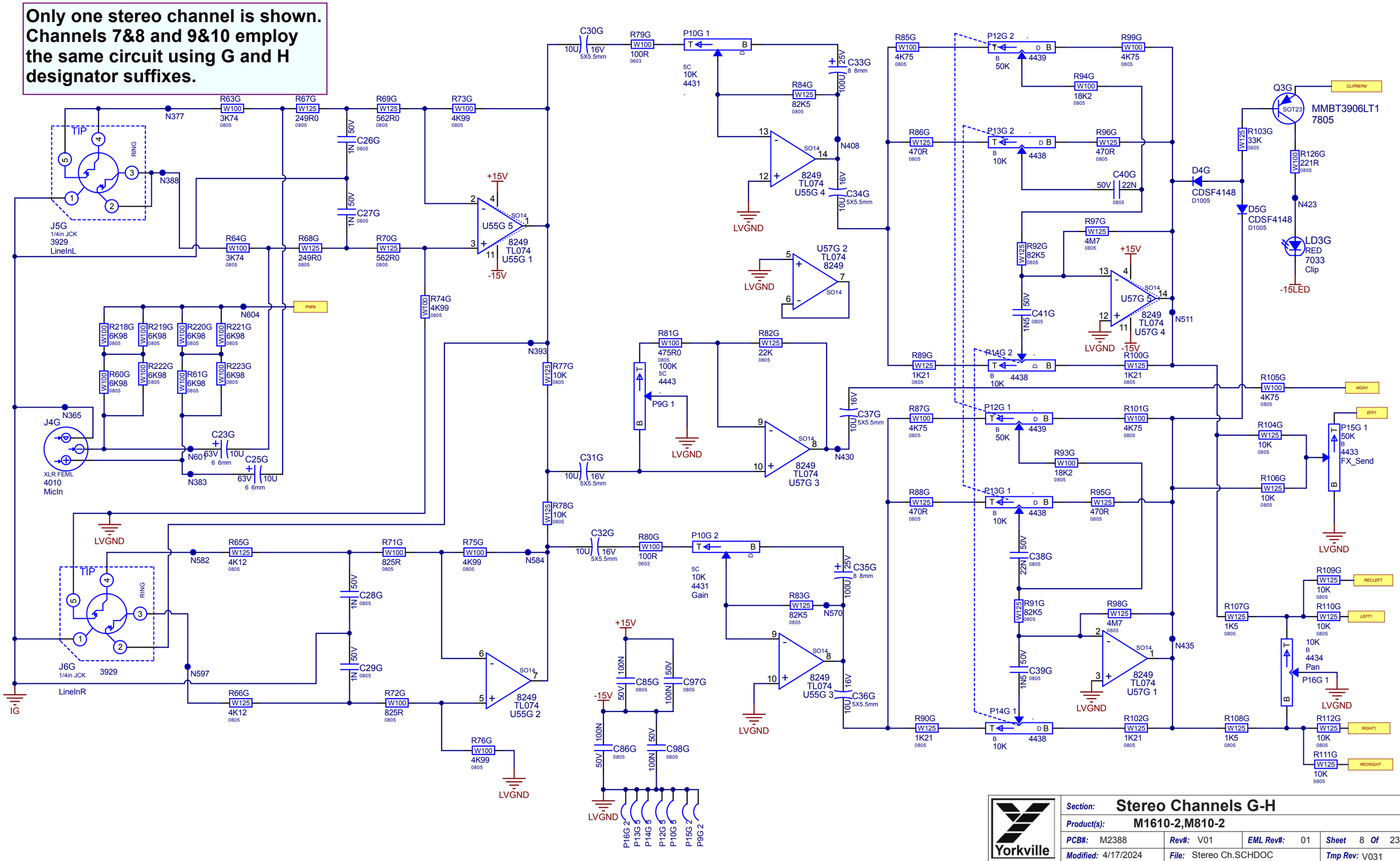
Yorkville	Section: **Mono Channels A-D**			
	Product(s): **M810-2, M1610-2**			
	PCB#: M2288	Rev#: V01	En : G. Atwood	Sheet 2 Of 23
	Modified: 4/16/2024	File: Mono Ch1-4.SCHDOC		

Only one Mono Channel with high impedance 1/4" input is shown. Channels 5 and 6 employ the same circuit using E and F designator suffixes.

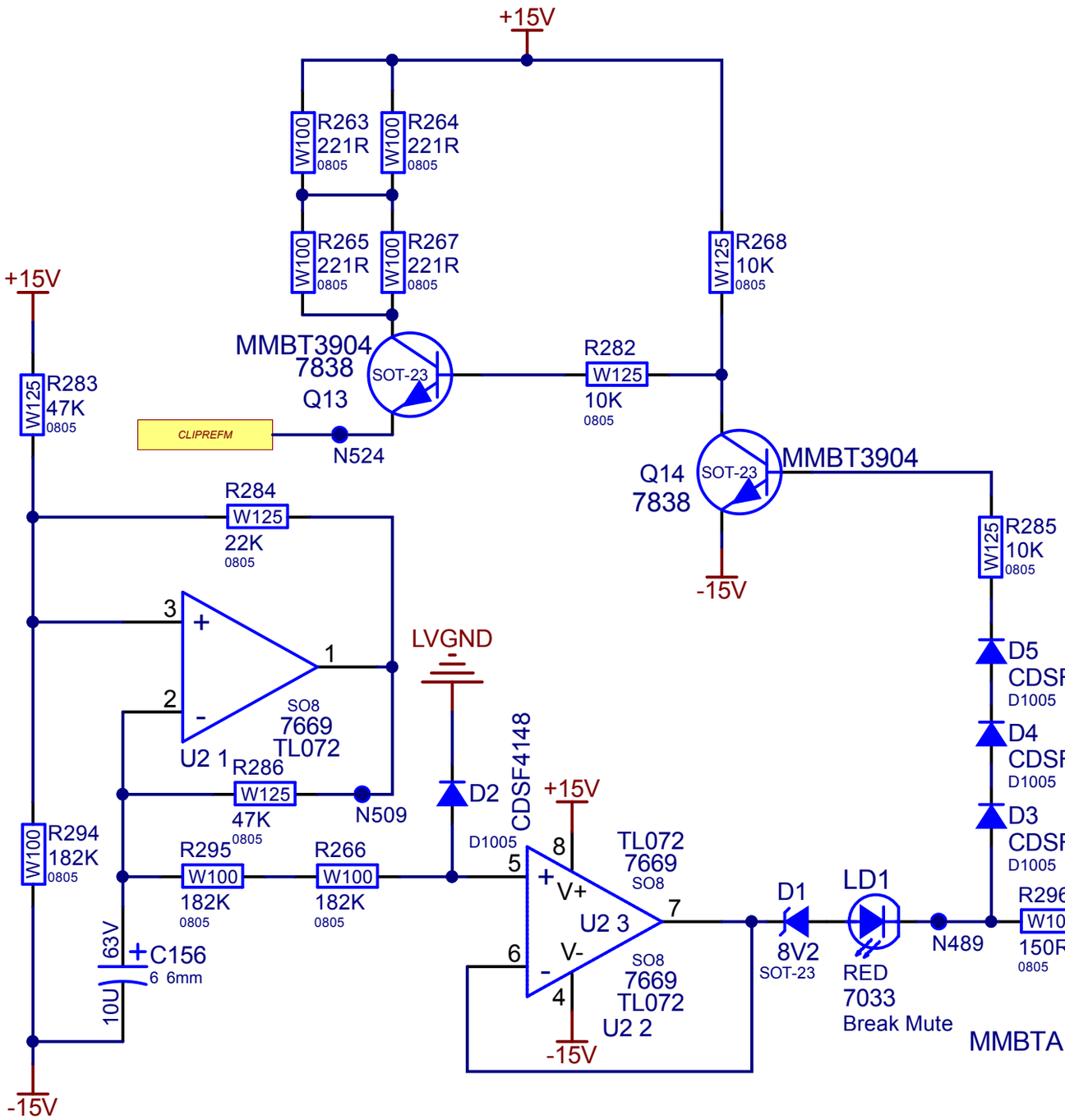


Yorkville	Section: **Mono Channels E-F**		
	Product(s): **M1610-2,M810-2**		
	PCB#: M2388	Rev#: V01	En : G. Atwood	Sheet 6 Of 23
	Modified: 4/16/2024	File: Mono Ch5-6.SCHDOC	

Only one stereo channel is shown. Channels 7&8 and 9&10 employ the same circuit using G and H designator suffixes.



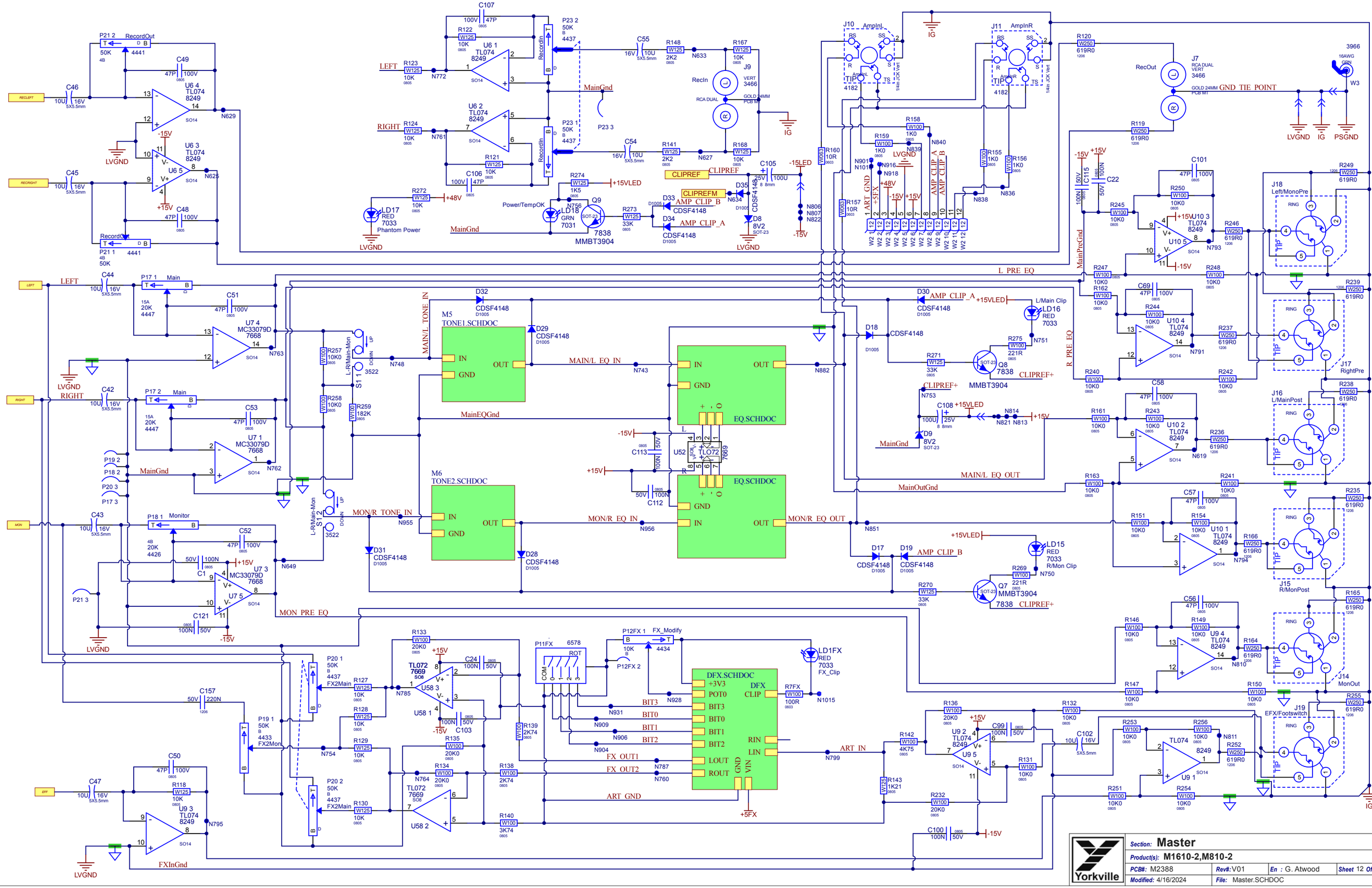
Section: Stereo Channels G-H			
Product(s): M1610-2,M810-2			
PCB#: M2388	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 8 **Of** 23
Modified: 4/17/2024	**File:** Stereo Ch.SCHDOC		**Tmp Rev:** V031



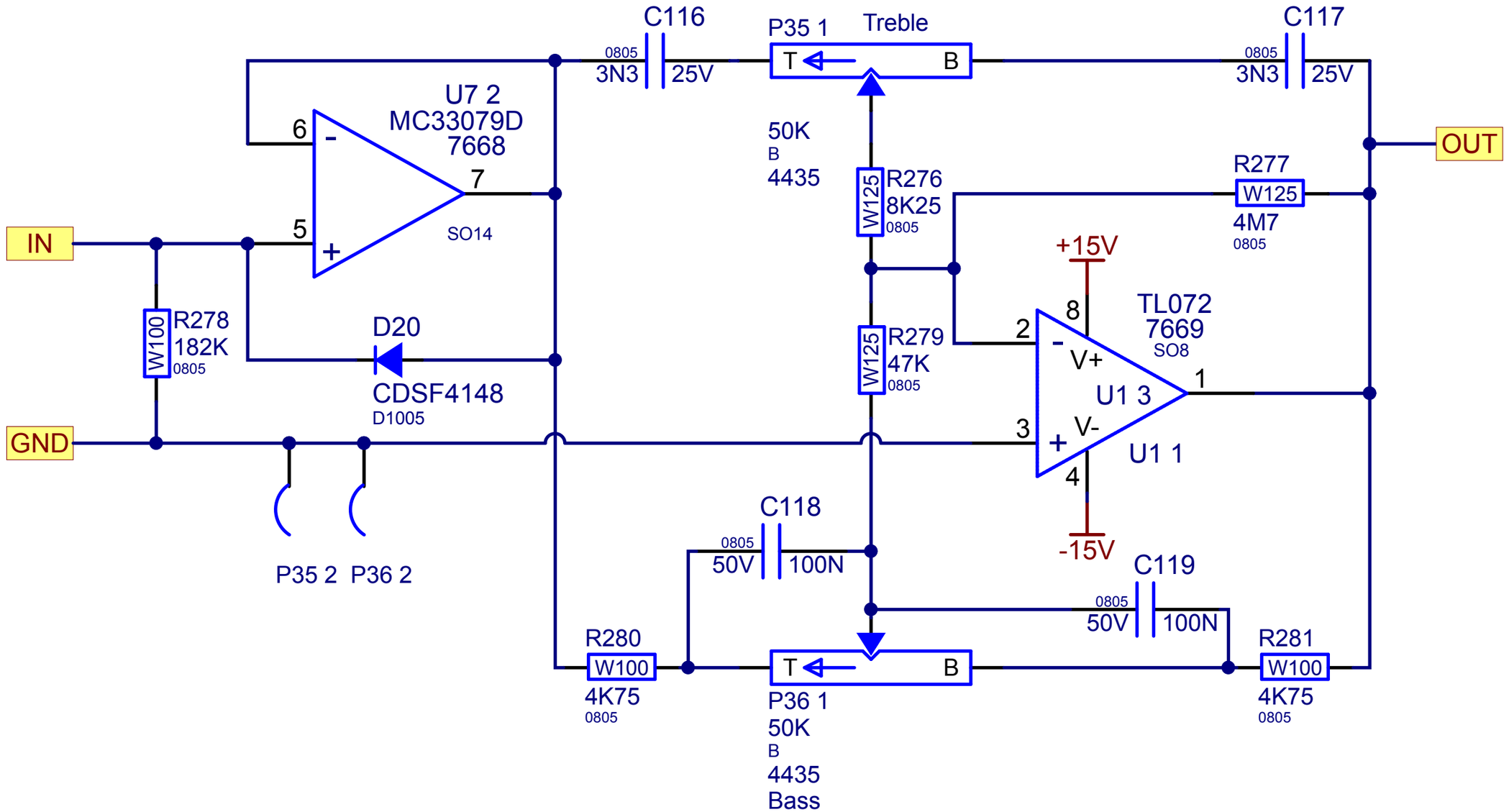
Yorkville

Section: BreakSwitch			
Product(s): M1610-2,M810-2			
PCB#: M2388	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 10 **Of** 23
Modified: 4/17/2024	**File:** BreakMute.SCHDOC		**Tmp Rev:** V031

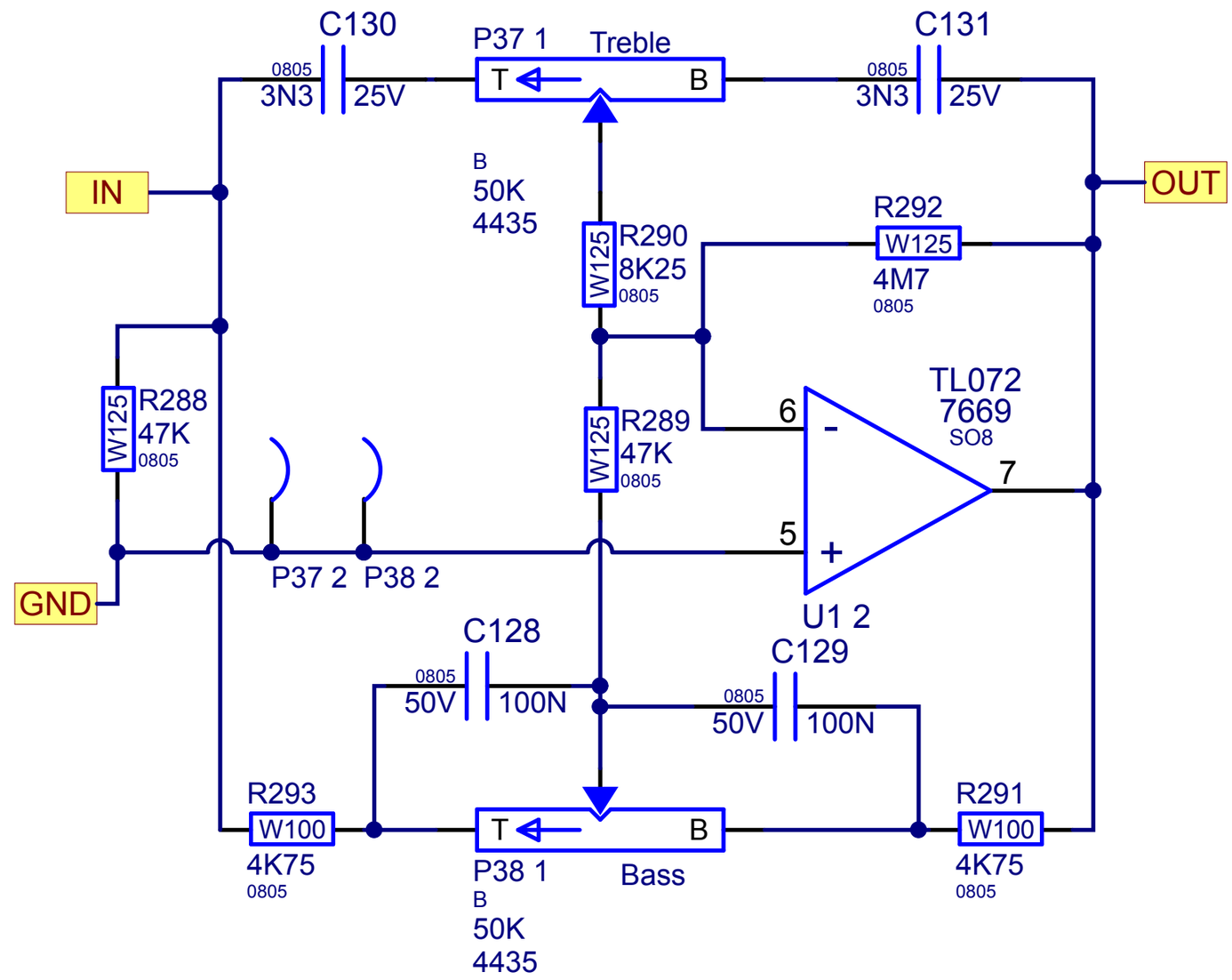
LIN
C4
1U
50V
3X3mm
R19
W100
1K0
0805
RIN
C11
DNS
50V
3X3mm
R20
W100
DNS
DNS
0805
C14
0805
1N
50V
C60
0805
DNS
DNS
50V
FXGND
+3V3
R22
10K0
0805
R24
10K0
0805
R25
10K0
0805
R33
10K0
0805
BIT0
BIT1
BIT2
U4
7912
FV-1
FX
1
LIN
2
RIN
16
S0
17
S1
18
S2
12
T1
13
T0
14
SCK
15
SDA
6
AVDD
8
DVDD
23
DVDD
4
GND
7
GND
11
GND
19
GND
24
GND
9
X2
10
X1
5
CLIP
28
LOUT
27
ROUT
20
POT0
21
POT1
22
POT2
25
REFN
3
MID
26
REFP
CLIP
C59
50V
1U
3X3mm
C80
50V
1U
3X3mm
R21
W100
1K0
0805
LOUT
R113
W100
1K0
0805
ROUT
R114
20K5
0805
R115
20K5
0805
C83
100V
0805
2N7
C87
100V
0805
2N7
FXGND
POT0
+3V3
R116
W250
100R
1206
R117
W100
100R
0805
BIT3
U5
7934-PROG
A0
A1
A2
Vcc
GND
SDA
SCL
WP
32KEEPROM
24LC32A
FXGND
+3V3
C91
100N
50V
0805
U11
FXGND
U8
SOT363
1
3
4
6
5
2
Vcc
Gnd
8013
NC7SB3157
R144
W100
10K0
0805
+3V3
C92
50V
100N
0805
+3V3
FXGND
C90
0603
15P
50V
X7 1
7913
FSRLR 32kHz
X7 2
NC1
NC2
3
4
7913
FSRLR 32kHz
R137
W063
49R9
0603
C89
50V
100N
0805
C88
50V
3X3mm
1U
+3V3
FXGND
U12
IN
OUT
LM1117-3V3
SMT
VIN
GND
C93
25V
4X4mm
4U7
C95
50V
100N
0805
C96
50V
100N
0805
C94
25V
4X4mm
4U7
+3V3
+3V3
FXGND
U7
7935-PROG
A0
A1
A2
Vcc
GND
SDA
SCL
WP
32KEEPROM
24LC32A
FXGND
+3V3
FXGND
U13
24LC32A
7934
32KEEPROM
UNPROGRAMMED
U14
24LC32A
7934
32KEEPROM
UNPROGRAMMED
ALL RESISTORS ARE 1% UNLESS OTHERWISE NOTED
Yorkville
Section: Digital Effects
Product(s): M1610-2,M810-2
PCB#: M2388
Rev#: V01
En : G. Atwood
Sheet 11 Of 23
Modified: 4/16/2024
File: DFX.SCHDOC



Yorkville	Section: **Master**		
	Product(s): **M1610-2,M810-2**		
	PCB#: M2388	Rev#: V01	En : G. Atwood
	Modified: 4/16/2024	File: Master.SCHDOC	Sheet 12 Of 23



Yorkville	**Section:** Tone - Left		
	Product(s): M1610-2,M810-2		
PCB#: M2388	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 13 **Of** 23
Modified: 4/17/2024	**File:** TONE1.SCHDOC		**Tmp Rev:** V031



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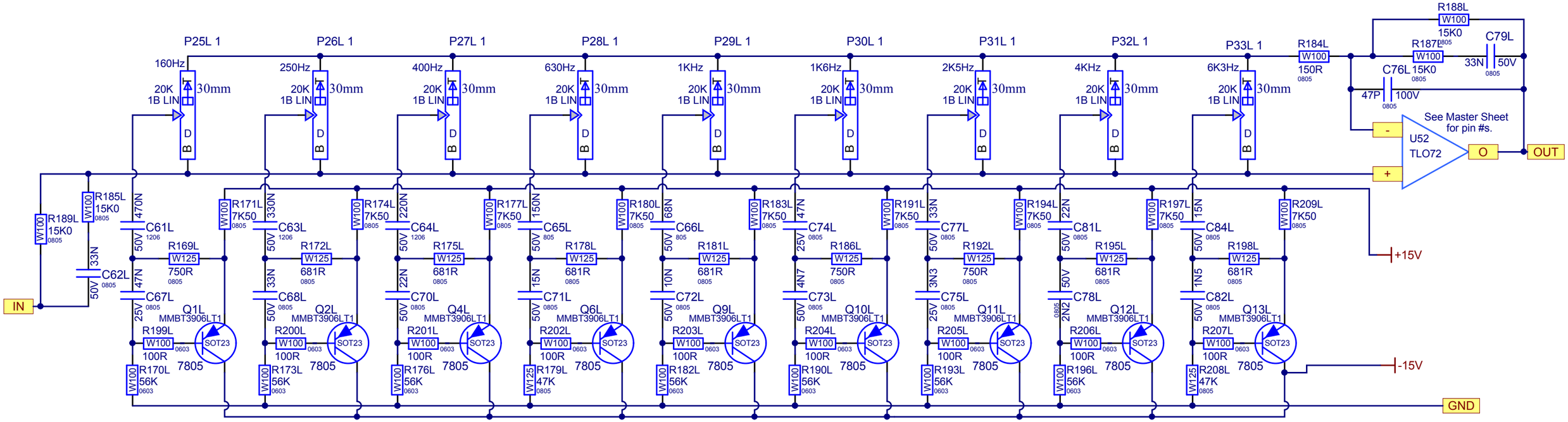
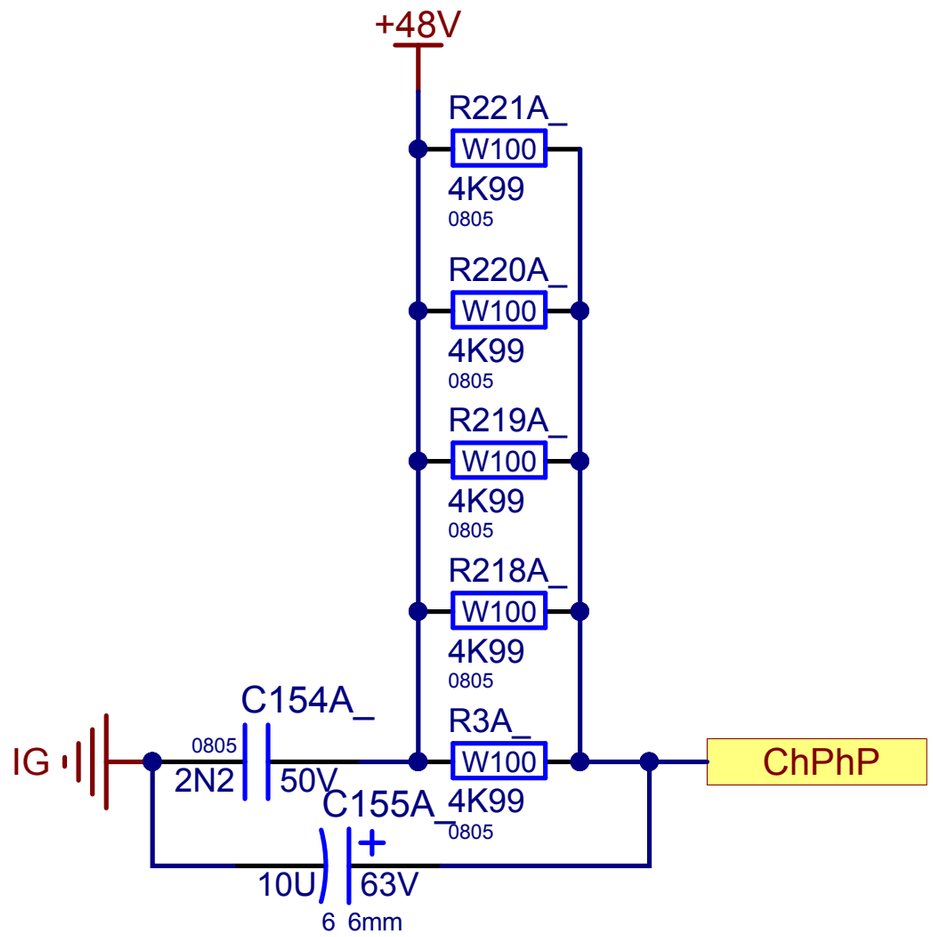
Section: Tone - Right				
Product(s): M1610-2,M810-2				
PCB#: M2388	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 14 **Of** 23	
Modified: 4/17/2024	**File:** TONE2.SCHDOC		**Tmp Rev:** V031	

Only one EQ Channel is shown. Left and Right employ the same circuit using L and R designator suffixes.



Yorkville	**Section:** Graphic EQ L&R			
	Product(s): M1610-2,M810-2			
	PCB#: M2388	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 15 **Of** 23
	Modified: 4/17/2024	**File:** EQ.SCHDOC		**Tmp Rev:** V031



Only one circuit is shown.
Each pair of Channels shares one of this circuit.
A_ parts for Ch A&B,
C_ parts for Ch C&D ect.

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Section: **Phantom Pwr Filter**			
Product(s): **M1610-2,M810-2**			
PCB#: M2388	*Rev#:* V01	*EML Rev#:* 01	*Sheet* 17 *Of* 23
Modified: 4/17/2024	*File:* PhantomFilter.SchDoc		*Tmp Rev:* V031

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	17-APR-2024	V01	.	Release for Production
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
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#	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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9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P25-34 L&R	Graphic EQ	4015	S24	N/A
P1A,1B,1C,1D,1E,1F	Trim	4443	P32	9915
P9G,9H (Monitor sends on stereo channels)	Mon	4443	P32	9917
P5A,5B,5C,5D,5E,5F	Level	4432	P32	9920
P15G,15H,6A,6B,6C,6D,6E,6F	EFX	4433	P32	9918
P7A,7B,7C,7D,7E,7F (Monitor sends on mono channels)	Mon	4433	P32	9917
P3A-F,4A-F (Hi / Mid on mono channels)	Hi, Mid	4434	P32	9916
P16G,16H, 8A-F	Bal, Pan	4434	P32	9919
P2A,2B,2C,2D,2E,2F (Lo on mono channels)	Lo	4435	P32	9916
P35,36,37,38	Graphic EQ Lo, Hi	4435	P32	9916
P21	Rec Out	4441	P34	9920
P20	MAIN EFX Return	4437	P34	9920
.	.	.	.	.
P13G,13H,14G,14H (Hi / Mid on stereo channels)	Hi, Mid	4438	P34	9916
P12G,12H (Lo on stereo channels)	Lo	4439	P34	9916
P11FX	EFX Select	6587	P23	8397
P23	Tape/CD	4437	P34	9915
P18 (Master monitor send)	MON	4426	P34	9917
P19	MON EFX Return	4433	P32	9917
P17 (L&R master level)	MAIN	4447	P34	9920
P12FX	MODIFY EFX	4434	P32	9918
P25L-P33L,P25R-P33R	GraphicEQ	POT0071	.	.
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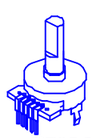
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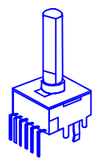
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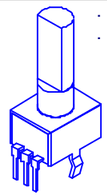
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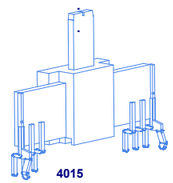
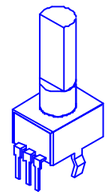

4015


"STYLE_P32"

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):	M1610-2,M810-2			
PCB#: M2388	Rev#: V01	EML Rev#: 01	Sheet 21 Of 23	
Modified: 4/17/2024	File: History.SchDoc		Tmp Rev: V031	

Score

Into Wave

BlankSi e - 453.0mm 258.0mm 10.157x17.834

DRV 01

Score

CLINCH

ORIGIN

VCD▶

M2388 V01 M1610-2,M810-2

M2388
V01

Yorkville
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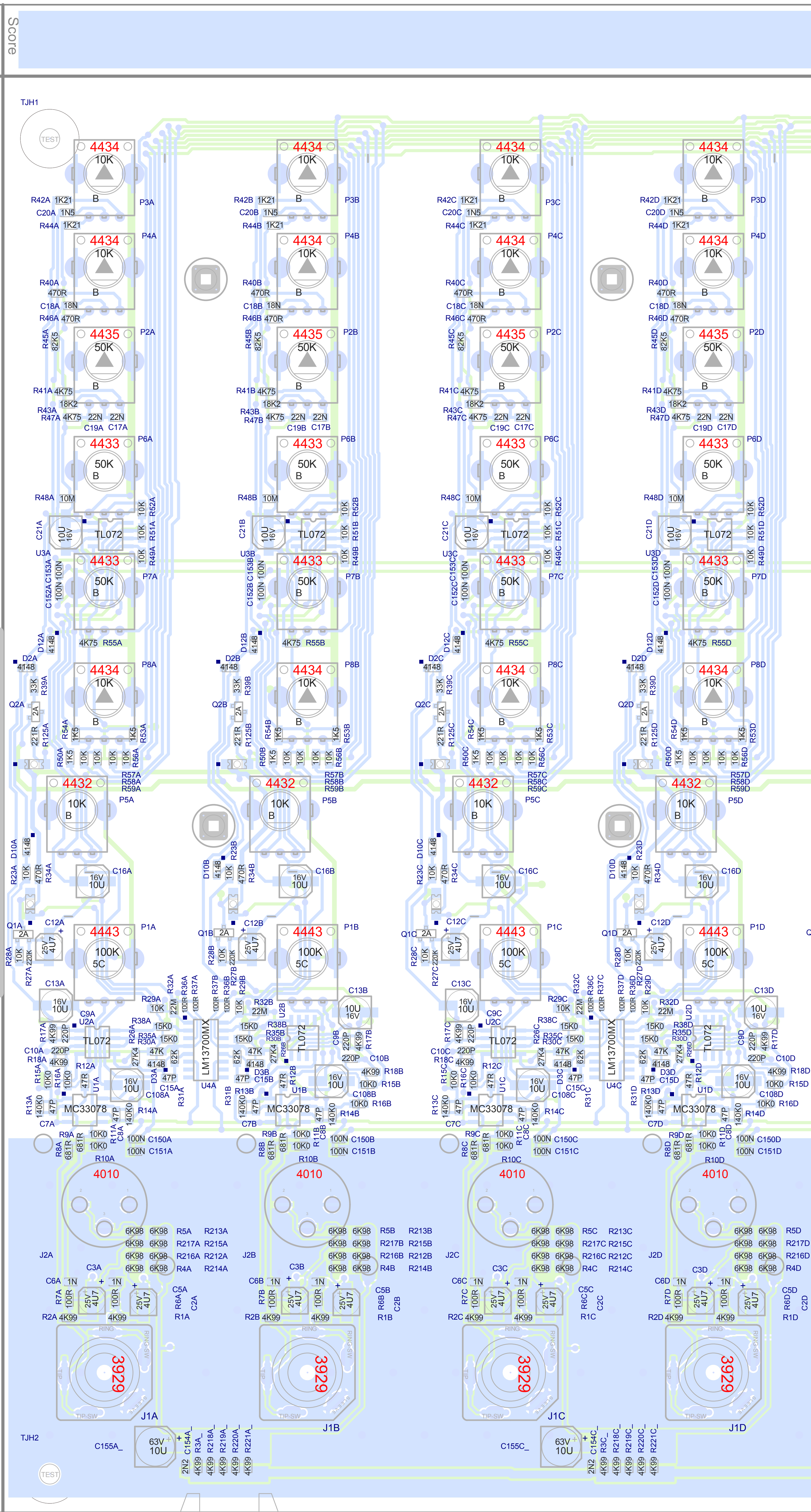
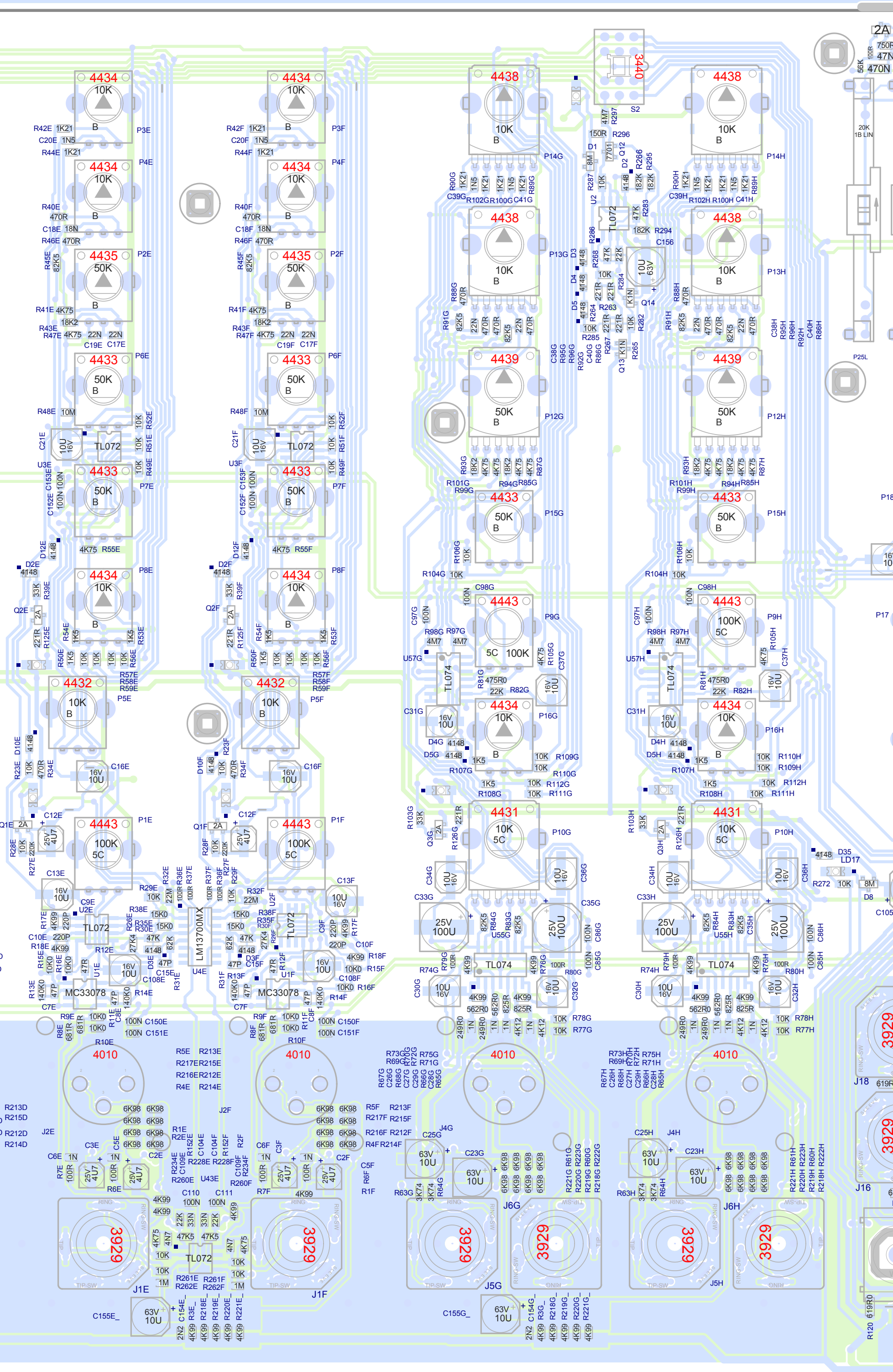
S/N LABEL


Score
TJH1
TEST
4434
10K
4435
50K
4433
4432
4443
100K
5C
4010
3929
TL072
MC33078
LM13700MX
P3A
P4A
P2A
P6A
P7A
P8A
P5A
P1A
P3B
P4B
P2B
P6B
P7B
P8B
P5B
P1B
P3C
P4C
P2C
P6C
P7C
P8C
P5C
P1C
P3D
P4D
P2D
P6D
P7D
P8D
P5D
P1D
U1A
U2A
U3A
U4A
U1B
U2B
U3B
U1C
U2C
U3C
U4C
U1D
U2D
U3D
J1A
J2A
J1B
J2B
J1C
J2C
J1D
J2D
TJH2
C155A_
C155C_
63V
10U
RING
TIP
TIP-SW
RING-SW

Into Wave


4434
10K
B
P3E
R42E 1K21
C20E 1N5
R44E 1K21
P4E
R40E 470R
C18E 18N
R46E 470R
4435
50K
P2E
R45E 82K5
R41E 4K75
18K2
R43E
R47E 4K75 22N 22N
C19E C17E
4433
P6E
R48E 10M
C21E
10U 16V
TL072
U3E
P7E
C153E 100N
C152E 100N
D12E 4148
4K75 R55E
P8E
D2E 4148
33K R39E
Q2E 2A
221R R125E
R54E 1K5
R50E 1K5
10K
R56E
R57E
R58E
R59E
4432
P5E
D10E 4148
R23E 10K
470R R34E
C16E
16V 10U
C12E
Q1E 2A
25V 4U7
4443
100K
5C
P1E
R28E 10K
220K R27E
C13E
R17E 4K99
220P
U2E
C10E 220P
R18E 4K99
R15E 10K0
R16E 10K0
U1E
R13E 140K0
47P
MC33078
C7E
R32E 22M
R29E 10K
R38E 15K0
R35E 15K0
R30E
R26E 27K4
47K
4148
D3E
47P
C15E
C108E
R14E
R9E 10K0
R8E 681R
R11E 47P
C8E 140K0
100N C150E
100N C151E
R10E
4010
R5E R213E
R217E R215E
R216E R212E
R4E R214E
J2E
R213D
R215D
R212D
R214D
6K98
J2F
R1E
R2E
C3E
C6E 1N
R7E 100R
R6E
C5E
C104E
C109E
R152E
R228E R228F
R234E
R260E
U43E
C110 100N
C111 100N
4K99
22K 33N 33N 22K
47K5 47K5
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R93G 18K2 4K75 4K75 18K2 4K75 4K75 R87G
R101G R99G
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R104G 10K
C98G 100N
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3440
S2
4M7 R297
150R R296
D1 8M
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R266 R295
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182K 182K
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221R 221R R284
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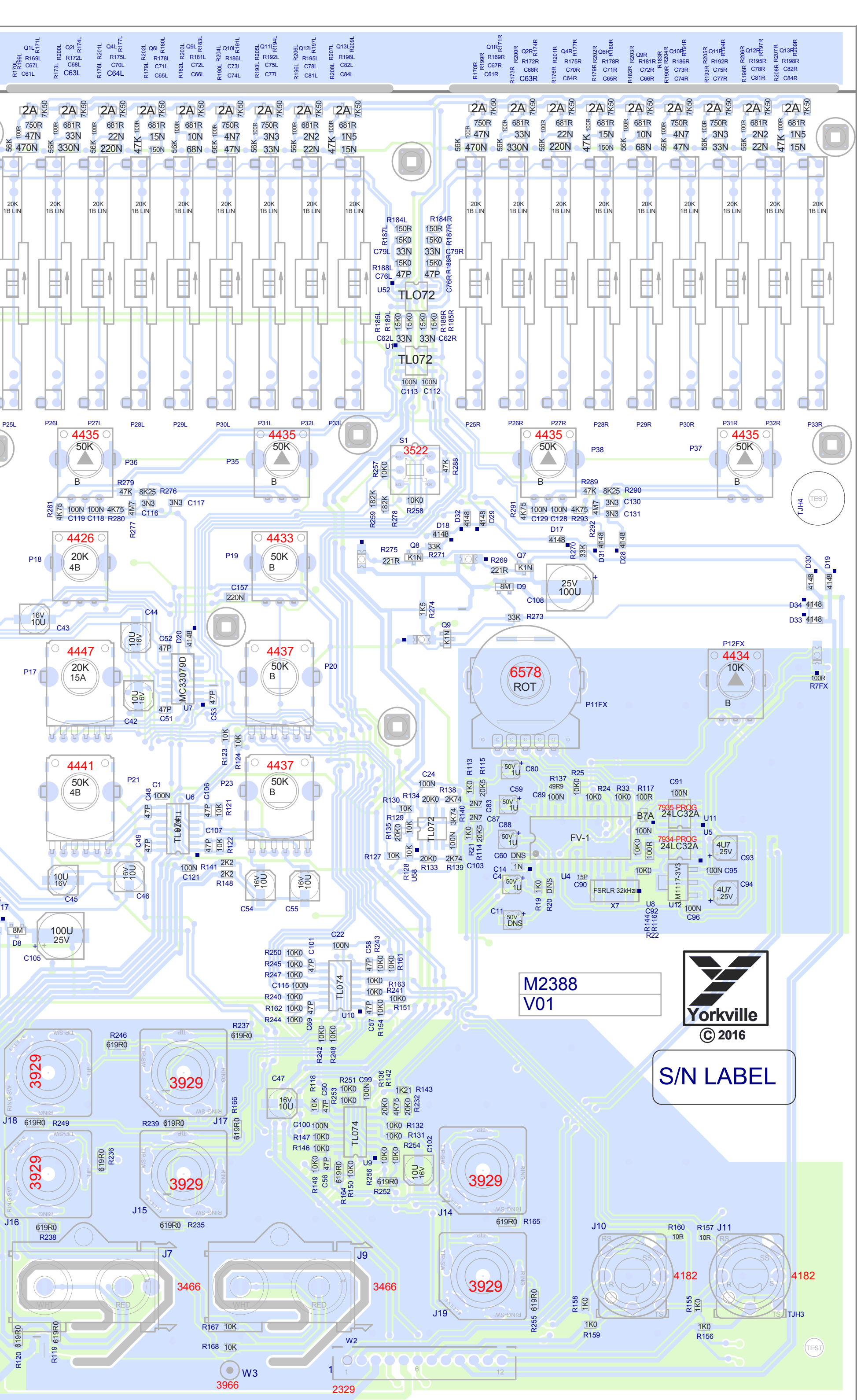
M2388
V01
Yorkville
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S/N LABEL
TLO72
TL072
TL074
FV-1
MC33079D
4435
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4447
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4441
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6578
ROT
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3466
4182
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2329
TJH4
TJH3
TEST

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. Wave solder jig MUST be used at all times for proper component alignment.
2. Set EQ sliders to the midpoint.
3. Separate panel using pizza cutter or appropriate tool where possible.
4. Ensure sliders and all hand placed parts are flush with the board.

PCB HARDWARE

SCREWS AND BOLTS	*NUTS*	*STANDOFFS*	*MISCELLANEOUS*

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

Yorkville

Section: **Assembly Documentation**			
Product(s): **M1610-2,M810-2**			
PCB#: M2388	*Rev#:* V01	*En :* G. Atwood	*Sheet* 5 *Of* 6
Modified: 4/17/2024	*File:* Assembly.SchDoc		

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	17-APR-2024	V01	.	Release for Production
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P25-34 L&R	Graphic EQ	4015	S24	N/A
P1A,1B,1C,1D,1E,1F	Trim	4443	P32	9915
P9G,9H (Monitor sends on stereo channels)	Mon	4443	P32	9917
P5A,5B,5C,5D,5E,5F	Level	4432	P32	9920
P15G,15H,6A,6B,6C,6D,6E,6F	EFX	4433	P32	9918
P7A,7B,7C,7D,7E,7F (Monitor sends on mono channels)	Mon	4433	P32	9917
P3A-F,4A-F (Hi / Mid on mono channels)	Hi, Mid	4434	P32	9916
P16G,16H, 8A-F	Bal, Pan	4434	P32	9919
P2A,2B,2C,2D,2E,2F (Lo on mono channels)	Lo	4435	P32	9916
P35,36,37,38	Graphic EQ Lo, Hi	4435	P32	9916
P21	Rec Out	4441	P34	9920
P20	MAIN EFX Return	4437	P34	9920
.	.	.	.	.
P13G,13H,14G,14H (Hi / Mid on stereo channels)	Hi, Mid	4438	P34	9916
P12G,12H (Lo on stereo channels)	Lo	4439	P34	9916
P11FX	EFX Select	6587	P23	8397
P23	Tape/CD	4437	P34	9915
P18 (Master monitor send)	MON	4426	P34	9917
P19	MON EFX Return	4433	P32	9917
P17 (L&R master level)	MAIN	4447	P34	9920
P12FX	MODIFY EFX	4434	P32	9918
P25L-P33L,P25R-P33R	GraphicEQ	POT0071	.	.
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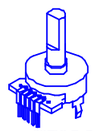
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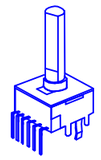
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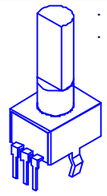
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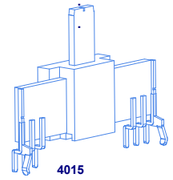
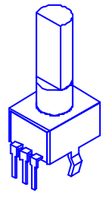

4015


"STYLE_P32"

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

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Section:	Design Information And History			
Product(s):	M1610-2,M810-2			
PCB#: M2388	Rev#: V01	EML Rev#: 01	Sheet 6	Of 6
Modified: 4/17/2024	File: History.SchDoc		Tmp Rev: V031	

M810 / M1610

2 x 400 Watt Powered Mixer Series 2 — 2 x 800 Watt Powered Mixer Series 2

Powered Wedge Mixers

General Operating Instructions

1. Connect the AC power cord to a 120 Volt AC grounded power outlet (220 to 240 Volts in export units).
2. Turn the MAIN and MON master controls to 0 initially, then switch on the Power.
3. You can connect low-impedance microphones to the 3-pin XLR type MIC inputs.
4. Connect high-impedance mics or mono line-level signal sources (mixer line outputs, keyboards etc.), to the ¼-inch balanced LINE IN jacks on channels 1-4, 7/8 and 9/10. Connecting more than one signal source to both XLR and ¼-inch inputs is not recommended; this includes stereo sources (if you try to connect a stereo source to a mono channel using a Y-adapter, you may get distortion). The ¼-inch channels 5 and 6 are optimized for musical instruments and are not balanced.
5. Connect stereo sources (CD players, tape decks, stereo keyboards etc.) to channels 7/8 or 9/10 via the stereo ¼-inch balanced LINE IN type inputs. Once again, connect only one signal source per channel, and use shielded patch cords for all pre-amp connections. If a monitor send or EFX send is not required use the Tape/CD input for your stereo source.

6a. Use 18-gauge (or heavier) speaker cables, using shielded patch cords to connect speakers will waste power by heating up. Connect one or two 8-ohm PA speakers to the SPEAKER outputs on the rear panel.

Note: To deliver maximum power to a pair of 4-ohm PA speakers, connect only one speaker to each amplifier.

6b. If you are using a separate power amplifier for the stage monitor speakers, connect the main speakers (as in #6, above) and run a shielded patch cord from the Pre-EQ or Post-EQ Out jack to the input of the monitor power amp. If you are using a separate graphic equalizer for the monitors run a shielded patch cord from the Pre-EQ or Post-EQ Out OUT jack to the input of the EQ. Then, another one from the EQ's output to the input of the monitor power amp.

7. Position your main PA speakers at the front of the stage, pointing directly at the audience. Position your monitor speakers on the stage floor; preferably to one side of the mic stands, pointing up at the performer. Try to use cardioid or uni-directional mics to help reduce the threat of feedback through the monitors (avoid having the back of the mic pointing directly at the speakers).
8. During a sound check and with the band playing, make the following control adjustments:
   i. On mono channels, you need to set the TRIM appropriately. To set the TRIM, first turn the channel LEVEL control down, with a normal signal (present at the input) adjust the TRIM control until the green LED flashes only during the peaks in signal. Now you can use the LEVEL control to set the channel volume level.
   ii. Set the channel Lo, Mid, and Hi EQ controls at center. Set the channel LEVEL, MON, and EFX controls to seven. The Graphic EQ sliders and rotary shelving controls should be set at the center position at this point as well.
   iii. Turn the MAIN and MON Master controls up to give the desired volume, the MAIN EFX return to around 7. Effects in the monitors tend to increase the possibility of feedback so if the band insists, set the MON EFX return to 5.
   iv. Adjust the channel MON control/s to give each performer the desired volume levels. Use the MON master control to adjust the overall monitor level.
   v. Use the channel LEVEL control/s to balance each channel's volume level through the main PA speakers.
   vi. Turn up the EFX controls on those channels requiring the selected Digital Effect. Typically, the lead and harmony vocal channels would be good candidates for effects. Reverb can be used on other channels or on recorded music, but should be used sparingly.
9. Feedback during a performance is usually caused by one of the stage monitors. The main PA is less likely to feedback because the mics are usually a good distance from the main PA speakers. Therefore, if you're using monitors, and feedback occurs, try the following procedures:
   i. Turn the MON Master down until the feedback stops.
   ii. If a graphic equalizer is patched between the MON output and your monitor power amp, adjust the EQ sliders individually to determine which frequency band will reduce the potential of feedback.
   iii. Now turn the MON Master back up. If the feedback returns, reset the sliders to their original positions and retry using different sliders.
   iv. In the rare case of main system feedback, follow the above type of procedure, but use the MAIN Master and the built in Graphic EQ.

To get the full Owner's Manual please visit our website at
http://www.yorkville.com/manuals/ or, if you need a printed version call **905-837-8777**

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M810 / M1610

M810: 2 x 400 Watt Powered Mixer Series 2 — M1610: 2 x 800 Watt Powered Mixer Series 2

Powered Wedge Mixers

Instructions Général d'Opération

1. Branchez le cordon d 'alimentation à une prise de courant 120Volt CA avec mise à la masse (220 ou 240 Volts dans des unités 220-240Volts).
2. Réglez initialement les contrôles **maître de moniteur** (MONITOR MASTER) et **PRINCIPAL** (MAIN MASTER) à "**0**" et mettez l 'appareil en marche.
3. Branchez des microphones basse impédance aux prises d 'entrées type XLR à 3-tiges pour microphone.
4. Branchez ensuite les microphones haute impédance ou autre source de signal monophonique niveau ligne (ex. Sortie "ligne" d 'amplificateur, sortie mono de mélangeur, instrument électrique, etc.) aux prises d 'entrées symétriques type 1/4»sur les canaux 1-4, 7/8 et 9/10. Nous vous recommandons de ne branchez qu 'une chose par canal. Cela inclut les sorties stéréos (brancher une source stéréo à un canal mono en utilisant un adaptateur en "Y "pourrait produire un signal écrêté). Les canaux 5 et 6 sont optimisés pour instruments musicaux et ils ne sont PAS symétriques.
5. Branchez les sources stéréos (tels magnétophone à cassette, lecteur de disque compacte, instrument à clavier stéréo, etc). aux canaux **7/8** et **9/10**,en utilisant les prises d'entrées symétriques type RCA (phono)ou 1/4» . Encore une fois, ne branchez qu 'une source de signal par canal et n 'employez que des câbles blindés pour les raccordements au niveau du pré-amplificateur. Si vous n'avez pas besoin d'un "monitor send" ou "EFX send" utilisez l'entrée «TapeCD» pour votre source stéréo.

6a. À l'aide de câble pour haut-parleur de jauge 18 ou plus (n 'employez jamais des câbles blindés pour brancher des haut-parleurs - Ils sont incapables de traiter le courant élevé et dissipent inutilement la puissance en chauffant), branchez un ou deux haut-parleurs de 8 ohms à la sortie **SPEAKER** sur le panneau arrière.

NOTE: *pour acheminer la puissance maximale à une paire de haut-parleur 4-ohm, ne branchez qu'un haut-parleur à chaque amplificateur.*

6b. Si vous utilisez un amplificateur de puissance externe pour les retours de scène, branchez les haut-parleurs principaux (tel qu 'indiqué au point #6 ci-dessus) et raccordez ensuite un câble blindé à partir de la prise de SORTIE de retours jusqu 'à l'entrée de l'amplificateur externe. Si vous employez un égalisateur graphique pour les retours, raccordez un câble blindé à partir de la prise de SORTIE de retours à l 'entrée de l 'égalisateur, et un autre à partir de la sortie de l 'égalisateur jusqu 'à l 'entrée de l 'amplificateur externe.

7. Placez vos enceintes principales au devant de la scène, de façon à les diriger directement vers l'audience. Placez ensuite vos moniteurs sur le plancher de la scène, préférablement sur un côté du pied pour microphone, en les dirigeant directement vers l'artiste. L'emploi de microphone "cardioid" ou "uni-directionnel" réduira la possibilité de feedback. (Évitez de pointer le microphone vers les haut-parleurs).
8. Procédez aux réglages des contrôles suivants durant le "sound check" du groupe:

i. Sur les canaux monophoniques, vous devez ajuster les contrôle **TRIM** correctement. Pour ce faire, tournez tout d'abord au minimum le contrôle **LEVEL** du canal, avec un signal normal ajustez le contrôle **TRIM** jusqu'à ce que la **DEL** *verte clignote* seulement durant les pointes de signal. Ajustez ensuite le contrôle de niveau du canal (**LEVEL)** pour obtenir le niveau désiré sur ce canal.

ii. Réglez à la position centrale les contrôles d'égalisation "**LO**," "**MID**" et "**HI**". Réglez ensuite les contrôles **LEVEL**, **MON**, et **EFX**à sept. Les curseurs de l'égalisateur graphique et les contrôles de l'égalisateur à chevauchement devraient eu aussi être réglé à la position centrale.

iii. Augmentez le niveau des contrôles de niveau principal **MAIN** et **MON Master** jusqu'à l'obtention du niveau désiré, le contrôle de retour pour **MAIN EFX** à environ **7** et **MON EFX** à environ **5**.

iv. Ajustez le(s) contrôle(s) **MON** sur les canaux pour que chacun des artistes obtienne le niveau désiré. Utilisez le contrôle maître **MON** pour ajuster le volume général des retours.

v. Utilisez les contrôles de volume (**LEVEL) sur chaque canal** pour balancer leur volume dans le système de sonorisation principal.

vi. Augmentez le niveau du contrôle **EFX** sur les canaux nécessitant l'effet numérique sélectionné. Généralement, la voix principale et les harmonies sont de bons candidats pour l'utilisation de l'effet. La réverbération peut être utilisé sur les autres canaux ou sur un programme musical pré-enregistré, mais son utilisation devrait alors être judicieuse.

9. Le feedback durant une performance est habituellement causé par un des retours de scène. Étant donné la distance par rapport aux microphones, le système sono principal est rarement la cause de feedback. Donc, si vous avez un problème de feedback avec les retours de scène, essayez les procédures suivantes:

i. Réduisez le niveau du contrôle principal MON jusqu 'à l 'élimination du feedback.

ii. Si un égalisateur graphique est raccordé entre la sortie MON OUT et votre amplificateur de retour de scène externe, repérez la gamme de fréquences qui semble causer le feedback et réduisez le niveau des curseurs qui semblent être problématiques.

iii. Remontez le niveau du contrôle principal **MON MASTER**. Si le feedback persiste, repoussez les curseurs de l 'égalisateur à la position centrale et essayez à nouveau avec d'autres curseurs.

iv. Si le feedback est causé par le système principal,(ce qui est peut probable) suivez les étapes ci-dessus en utilisant le contrôle de niveau MAIN MASTER et l 'égalisateur incorporé.

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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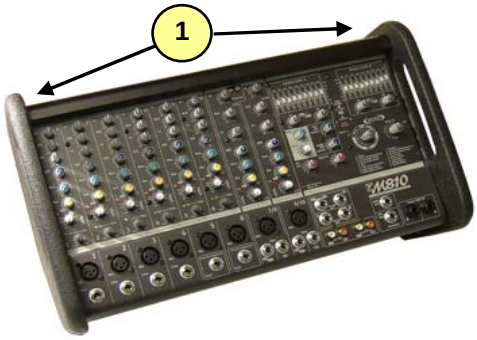
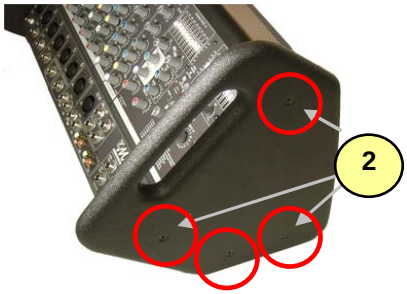
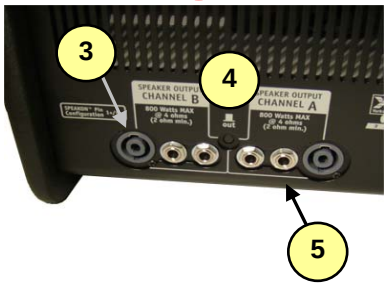
4625 Witmer Industrial Estate
Niagara Falls, New York
14305 USA

m810/m1610
Powered Wedge Mixer

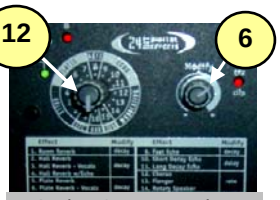
#	Part#	Description
Labeled Components		
1	8497	M1610/M810 GABLE
2	8893	10-32 X 1 FLAT PHILIPS TT JS500 BLK BOLTS
3	3628	SPKON 4C PCB MT VERT 250TAB GRY
4	8637/3522	PUSHBUTTON 1/4" BLK / DPDT MINI PC VERT
5	3924	1/4" JCK PCB MT VERT 2XTIP HICU
6	9916	GRY SOFT GRAY RIB KNOB 0-DEG
7	9918	BLU SOFT GRAY RIB KNOB 0-DEG
8	9917	GRN SOFT GRAY RIB KNOB 0-DEG
9	9919	YEL SOFT GRAY RIB KNOB 0-DEG
10	9920	WHT SOFT GRAY RIB KNOB 0-DEG
11	9921	GREY KNB W/O COVERING 0-DEG
12	8397	GREY STYLE 2 KNOB
13	8632	ROUND PUSH BUTTON 1/4" GREY
14	4010	XLR FEML PCB MT VERT 24MM AA-SE
15	3466	RCA DUAL PCB MT VERT GOLD 24MM
16	3450 & 3450NUT	1/4" ALL GOLD PC MNT JK SKT
17	2408/2456	8.0a CIR BREAKER (CE = 4,0A CIR BREAKER
18	3587	DPDT ROKR SW QUIK 250"AC/PWR ON
19	3663	SNAP IEC PWR SOC W/.250TAB
20	3426	8' 3/16 SJT AC LINE CORD REMOVB-CSA
21	3474	6' 3X.075MM AC LINE CORD EURO-REMOV



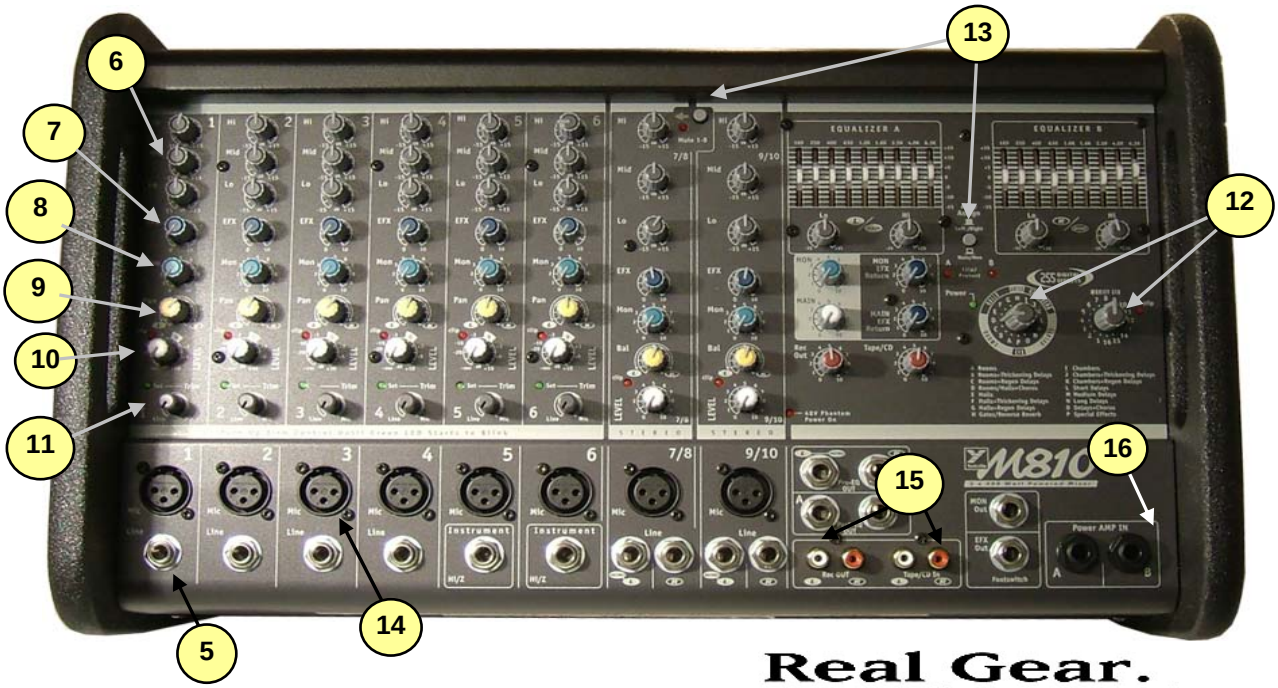




21 EURO PWR CORD



Series 2 EFX section



Real Gear.
Real People.

STEREO DIGITAL EFFECTS

YORKVILLE SOUND • DIGITAL EFFECTS BY A.R.T.

A ROOMS

1 0.5s Bright Small Room
2 0.5s Warm Small Room
3 0.5s Dark Small Room
4 0.8s Bright Small Room
5 0.8s Warm Small Room
6 1.0s Bright Small Room
7 1.0s Warm Small Room
8 1.2s Bright Medium Room
9 1.2s Warm Medium Room
10 1.5s Bright Medium Room
11 1.5s Warm Medium Room
12 1.5s Dark Medium Room
13 2.0s Bright Large Room
14 2.0s Warm Large Room
15 2.5s Bright Large Room
16 2.5s Warm Large Room

B ROOMS & THICKENING DELAYS

1 0.5s Bright Small Room + 50ms doubling delay
2 0.5s Warm Small Room + 40ms doubling delay
3 0.5s Dark Small Room + 40ms doubling delay
4 0.8s Bright Small Room + 60ms doubling delay
5 0.8s Warm Small Room + 50ms doubling delay
6 1.0s Bright Small Room + 70ms slap delay
7 1.0s Warm Small Room + 50ms doubling delay
8 1.2s Bright Medium Room + 50ms doubling delay
9 1.2s Warm Medium Room + 50ms doubling delay
10 1.5s Bright Medium Room + 80ms slap delay
11 1.5s Warm Medium Room + 60ms doubling delay
12 1.5s Dark Medium Room + 70ms slap delay
13 2.0s Bright Large Room + 80ms slap delay
14 2.0s Warm Large Room + 60ms doubling delay
15 2.5s Bright Large Room + 100ms slap delay
16 2.5s Warm Large Room + 80ms slap delay

C ROOMS & REGENERATION DELAYS

1 0.5s Bright Small Room + 200ms regen delay
2 0.5s Warm Small Room + 175ms regen delay
3 0.5s Dark Small Room + 150ms regen delay
4 0.8s Bright Small Room + 200ms regen delay
5 0.8s Warm Small Room + 150ms regen delay
6 1.0s Bright Small Room + 175ms regen delay
7 1.0s Warm Small Room + 125ms regen delay
8 1.2s Bright Medium Room + 150ms regen delay
9 1.2s Warm Medium Room + 200ms regen delay
10 1.5s Bright Medium Room + 200ms regen delay
11 1.5s Warm Medium Room + 175ms regen delay
12 1.5s Dark Medium Room + 150ms regen delay
13 2.0s Bright Large Room + 200ms regen delay
14 2.0s Warm Large Room + 125ms regen delay
15 2.5s Bright Large Room + 150ms regen delay
16 2.5s Bright Large Room + 200ms regen delay

D ROOMS / HALLS & CHORUS

1 0.5s Bright Room + slow chorus
2 0.8s Warm Room + medium chorus
3 1.0s Bright Room + slow chorus
4 1.2s Warm Room + medium chorus
5 1.5s Bright Room + slow chorus
6 1.8s Warm Room + slow chorus
7 2.5s Bright Room + medium chorus
8 3.0s Warm Room + slow chorus
9 2.0s Bright Hall + slow chorus
10 2.5s Warm Hall + medium chorus
11 2.5s Bright Hall + slow chorus
12 3.0s Warm Hall + slow chorus
13 3.5s Warm Hall + slow chorus
14 3.5s Bright Hall + medium chorus
15 5.0s Warm Hall + slow chorus
16 8.0s Warm Hall + slow chorus

E HALLS

1 1.5s Dark Medium Hall
2 1.5s Warm Medium Hall
3 1.5s Bright Medium Hall
4 2.0s Dark Medium Hall
5 2.0s Warm Medium Hall
6 2.0s Bright Medium Hall
7 2.5s Dark Medium Hall
8 2.5s Warm Medium Hall
9 2.5s Bright Medium Hall
10 3.5s Dark Medium Hall
11 3.5s Warm Medium Hall
12 3.5s Bright Medium Hall
13 5.0s Dark Large Hall
14 5.0s Warm Large Hall
15 8.0s Dark Huge Hall
16 8.0s Warm Huge Hall

F HALLS & THICKENING DELAYS

1 1.5s Dark Medium Hall + 50ms doubling delay
2 1.5s Warm Medium Hall + 70ms slap delay
3 1.5s Bright Medium Hall + 90ms slap delay
4 2.0s Dark Medium Hall + 90ms slap delay
5 2.0s Warm Medium Hall + 70ms slap delay
6 2.0s Bright Medium Hall + 50ms doubling delay
7 2.5s Dark Medium Hall + 70ms slap delay
8 2.5s Warm Medium Hall + 80ms slap delay
9 2.5s Bright Medium Hall + 100ms slap delay
10 3.5s Dark Medium Hall + 80ms slap delay
11 3.5s Warm Medium Hall + 90ms slap delay
12 3.5s Bright Medium Hall + 100ms slap delay
13 5.0s Dark Large Hall + 80ms slap delay
14 5.0s Bright Large Hall + 100ms slap delay
15 8.0s Dark Huge Hall + 100ms slap delay
16 8.0s Warm Huge Hall + 100ms slap delay

G HALLS & REGENERATION DELAYS

1 1.5s Dark Medium Hall + 150ms regen delay
2 1.5s Warm Medium Hall + 175ms regen delay
3 1.5s Bright Medium Hall + 200ms regen delay
4 2.0s Dark Medium Hall + 200ms regen delay
5 2.0s Warm Medium Hall + 150ms regen delay
6 2.0s Bright Medium Hall + 175ms regen delay
7 2.5s Dark Medium Hall + 200ms regen delay
8 2.5s Warm Medium Hall + 150ms regen delay
9 2.5s Bright Medium Hall + 175ms regen delay
10 3.5s Dark Medium Hall + 125ms regen delay
11 3.5s Dark Medium Hall + 150ms regen delay
12 3.5s Bright Medium Hall + 200ms regen delay
13 5.0s Dark Large Hall + 175ms regen delay
14 5.0s Bright Large Hall + 200ms regen delay
15 8.0s Dark Large Hall + 150ms regen delay
16 8.0s Bright Large Hall + 200ms regen delay

H GATED / REVERSE REVERB

1 0.8s decay 100ms Gate
2 0.8s decay 200ms Gate
3 1.2s decay 100ms Gate
4 1.2s decay 200ms Gate
5 1.8s decay 150ms Gate
6 1.8s decay 200ms Gate
7 2.0s decay 300ms Gate
8 2.0s decay 300ms Gate
9 2.5s decay 250ms Gate
10 2.5s decay 400ms Gate
11 0.5s decay 100ms Reverse
12 0.5s decay 200ms Reverse
13 1.0s decay 100ms Reverse
14 1.0s decay 200ms Reverse
15 2.5s decay 250ms Reverse
16 4.0s decay 300ms Reverse

I CHAMBERS / PLATES

1 0.8s Warm Chamber
2 0.8s Bright Chamber
3 1.2s Warm Chamber
4 1.2s Bright Chamber
5 1.5s Warm Chamber
6 1.5s Bright Chamber
7 2.5s Warm Chamber
8 2.5s Bright Chamber
9 3.5s Warm Chamber
10 3.5s Bright Chamber
11 0.3s Bright Plate
12 0.5s Bright Plate
13 0.8s Bright Plate
14 1.2s Bright Plate
15 1.5s Bright Plate
16 2.0s Bright Plate

J CHAMBERS / PLATES + THICKENING DELAYS

1 0.8s Warm Chamber + 50ms doubling delay
2 0.8s Bright Chamber + 50ms doubling delay
3 1.2s Warm Chamber + 60ms doubling delay
4 1.2s Bright Chamber + 70ms slap delay
5 1.5s Warm Chamber + 70ms slap delay
6 1.5s Bright Chamber + 80ms slap delay
7 2.5s Warm Chamber + 80ms slap delay
8 2.5s Bright Chamber + 100ms slap delay
9 3.5s Warm Chamber + 90ms slap delay
10 3.5s Bright Chamber + 100ms slap delay
11 0.3s Bright Plate + 40ms doubling delay
12 0.5s Bright Plate + 50ms doubling delay
13 0.8s Bright Plate + 50ms doubling delay
14 1.2s Bright Plate + 80ms slap delay
15 1.5s Bright Plate + 80ms slap delay
16 2.0s Bright Plate + 100ms slap delay

K CHAMBERS / PLATES + REGEN DELAYS

1 0.8s Warm Chamber + 150ms regen delay
2 0.8s Bright Chamber + 125ms regen delay
3 1.2s Warm Chamber + 175ms regen delay
4 1.2s Bright Chamber + 200ms regen delay
5 1.5s Warm Chamber + 150ms regen delay
6 1.5s Bright Chamber + 200ms regen delay
7 2.5s Warm Chamber + 175ms regen delay
8 2.5s Bright Chamber + 125ms regen delay
9 3.5s Warm Chamber + 200ms regen delay
10 3.5s Bright Chamber + 150ms regen delay
11 0.3s Bright Plate + 125ms regen delay
12 0.5s Bright Plate + 150ms regen delay
13 0.8s Bright Plate + 200ms regen delay
14 1.2s Bright Plate + 175ms regen delay
15 1.5s Bright Plate + 150ms regen delay
16 2.0s Bright Plate + 200ms regen delay

L SHORT DELAYS

1 30ms slap delay
2 35ms slap delay
3 40ms slap delay
4 50ms slap delay
5 60ms slap delay
6 70ms slap delay
7 80ms slap delay
8 90ms slap delay
9 100ms slap delay
10 100ms regen delay
11 125ms low regen delay
12 125ms medium regen delay
13 150ms low regen delay
14 150ms medium regen delay
15 175ms low regen delay
16 175ms medium regen delay

M MEDIUM DELAYS

1 200ms low regen delay
2 200ms medium regen delay
3 225ms low regen delay
4 225ms medium regen delay
5 250ms low regen delay
6 250ms medium regen delay
7 275ms low regen delay
8 275ms medium regen delay
9 300ms low regen delay
10 300ms medium regen delay
11 325ms low regen delay
12 325ms medium regen delay
13 350ms low regen delay
14 350ms medium regen delay
15 375ms low regen delay
16 375ms medium regen delay

N LONG DELAYS

1 390ms low regen delay
2 390ms medium regen delay
3 400ms low regen delay
4 400ms medium regen delay
5 410ms low regen delay
6 410ms medium regen delay
7 420ms low regen delay
8 420ms medium regen delay
9 430ms low regen delay
10 430ms medium regen delay
11 450ms low regen delay
12 450ms medium regen delay
13 475ms low regen delay
14 475ms medium regen delay
15 500ms low regen delay
16 500ms medium regen delay

O DELAYS & CHORUS

1 50ms doubling delay + slow chorus
2 80ms slap delay + medium chorus
3 100ms slap delay + medium chorus
4 150ms regen delay + slow chorus
5 175ms regen delay + medium chorus
6 200ms regen delay + slow chorus
7 225ms regen delay + medium chorus
8 250ms regen delay + slow chorus
9 275ms regen delay + medium chorus
10 300ms regen delay + slow chorus
11 325ms regen delay + medium chorus
12 350ms regen delay + slow chorus
13 370ms regen delay + medium chorus
14 380ms regen delay + slow chorus
15 390ms regen delay + medium chorus
16 400ms regen delay + slow chorus

P SPECIAL EFFECTS

1 Pitch Shift octave down
2 Pitch Shift octave up
3 Pitch Shift major 3rd up
4 Pitch Shift major 5th down
5 Dual Pitch Shift major 3rd and 5th up
6 Dual Pitch Shift octave up and octave down
7 Detune Flanger
8 Slow Flanger w/ medium regen
9 Slow Flanger w/ high regen
10 Medium Flanger w/ medium regen
11 Medium Flanger w/ high regen
12 250ms high regen delay
13 500ms medium regen delay
14 500ms high regen delay
15 Slow Flanger + Pitch Shift octave down
16 Slow Flanger + Pitch Shift ocatve up

255 PRESET 16 Bit DIGITAL EFFECTS PROCESSOR

M810/M1610
Series 2

24 BIT DIGITAL EFFECTS

Effect	Modify	Effect	Modify
1. Room Reverb	decay	9. Fast Echo	decay
2. Hall Reverb	decay	10. Short Decay Echo	delay
3. Hall Reverb - Vocals		11. Long Decay Echo	
4. Hall Reverb w/Echo		12. Chorus	rate
5. Plate Reverb	decay	13. Flanger	
6. Plate Reverb - Vocals		14. Rotary Speaker	
7. Plate Reverb w/Echo		15. Distortion	gain
8. Gated Reverb	decay	16. Harmonizer	pitch

YS#9920 White Knob (qty: 9)

YS#9921 Gray Knob, no cover (qty: 6)

YS#9915 Red Knob (qty: 2)

YS#9916 Gray Knob (qty: 28)

YS#9918 Blue Knob (qty: 10)

YS#9917 Green Knob (qty: 9)

YS#9919 Yellow Knob (qty: 8)

YS#8397 Large Gray Knob (qty: 2)

- YS#9920 White Knob (qty: 9)
- YS#9921 Gray Knob, no cover (qty: 6)
- YS#9915 Red Knob (qty: 2)
- YS#9916 Gray Knob (qty: 29)
- YS#9918 Blue Knob (qty: 10)
- YS#9917 Green Knob (qty: 9)
- YS#9919 Yellow Knob (qty: 8)
- YS#8397 Large Gray Knob (qty: 1)

Pcb Mech M11941.10

Blank Size - 17900 x 10625

RED

GRN

W8

YEL

GRY

GRY

VIO

VIO

RED

DUMMY

CH1258E

L

N

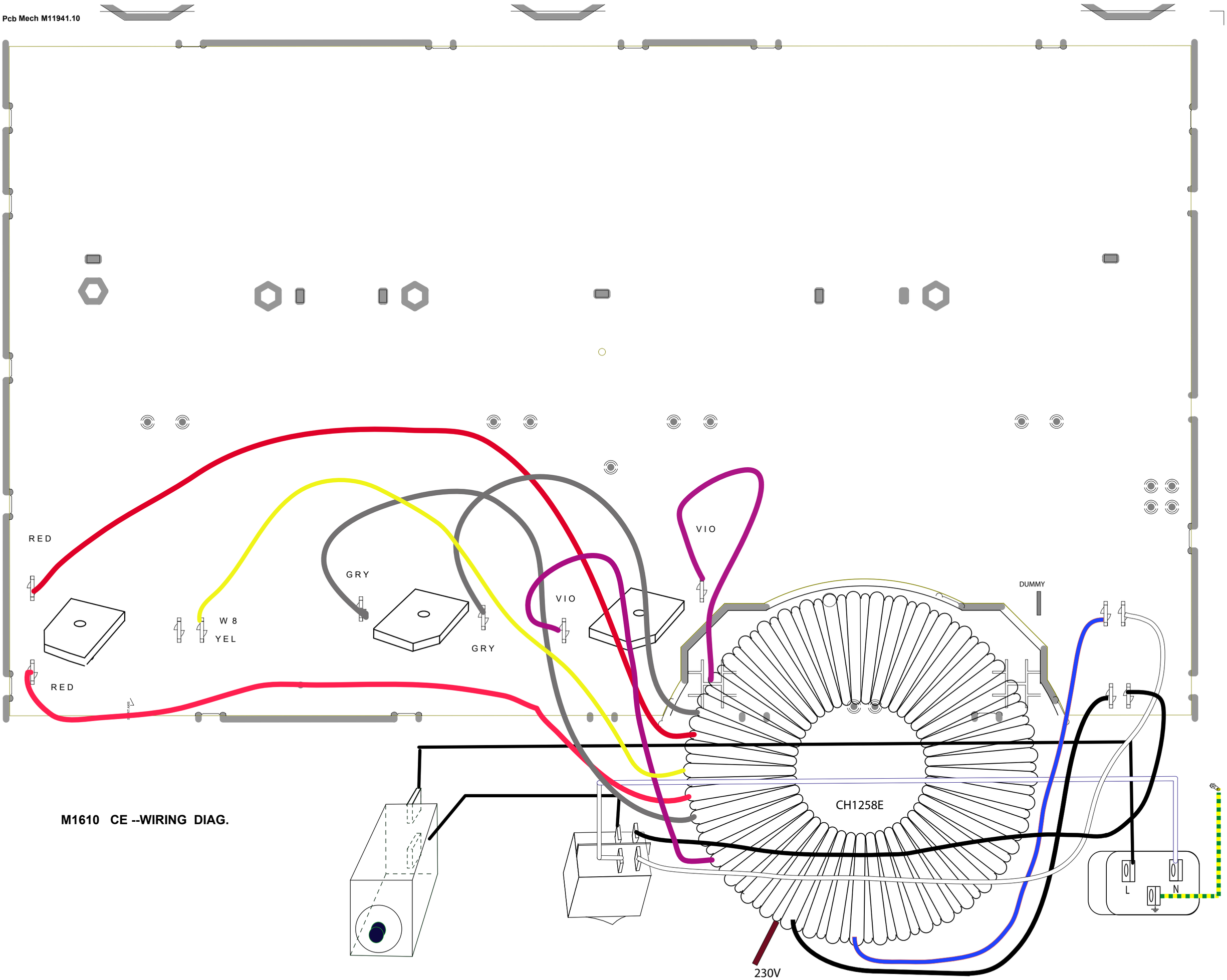
245V

M1610 CE --WIRING DIAG.

SHOWN AS 230V OPERATION

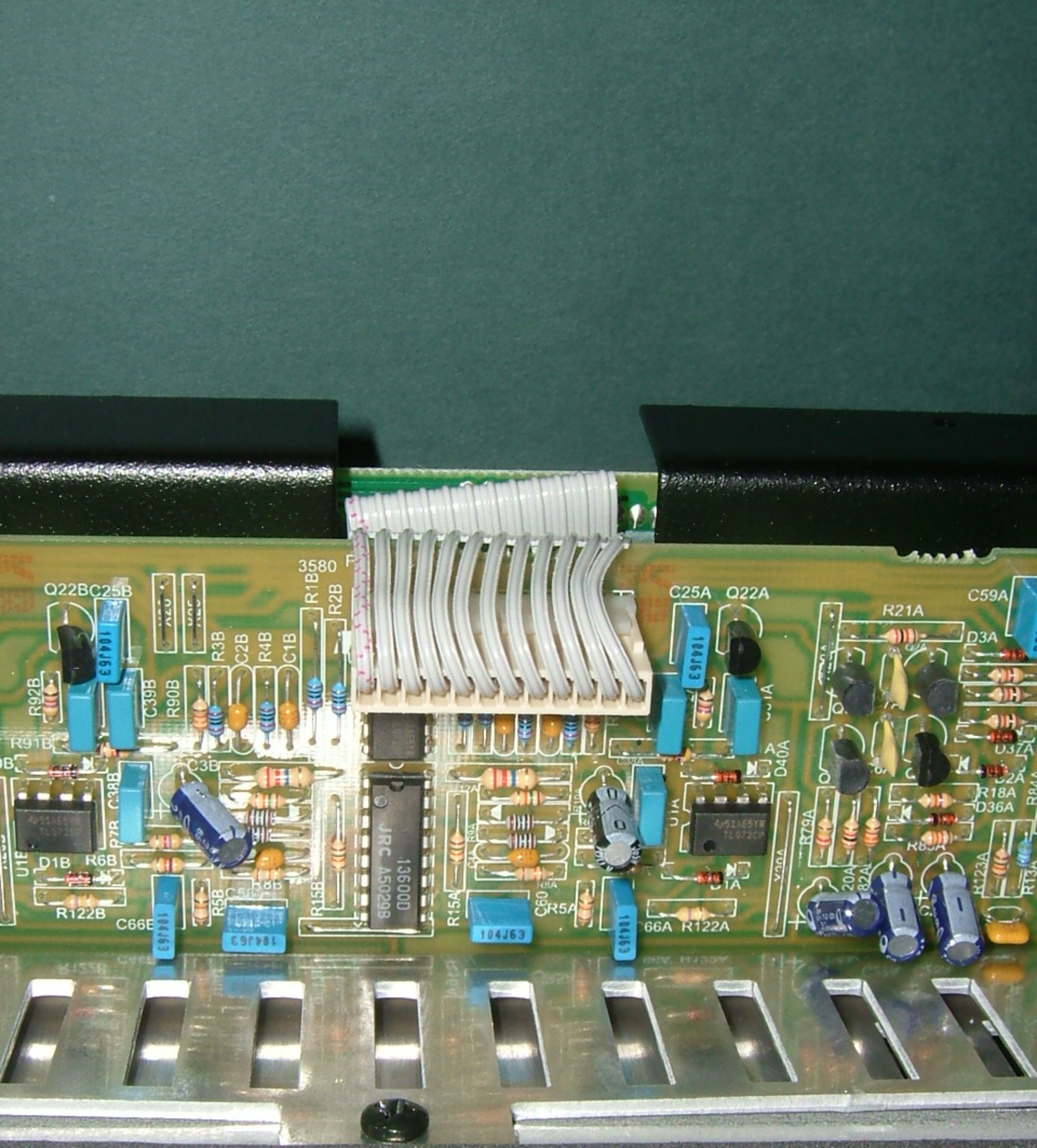
Pcb Mech M11941.10

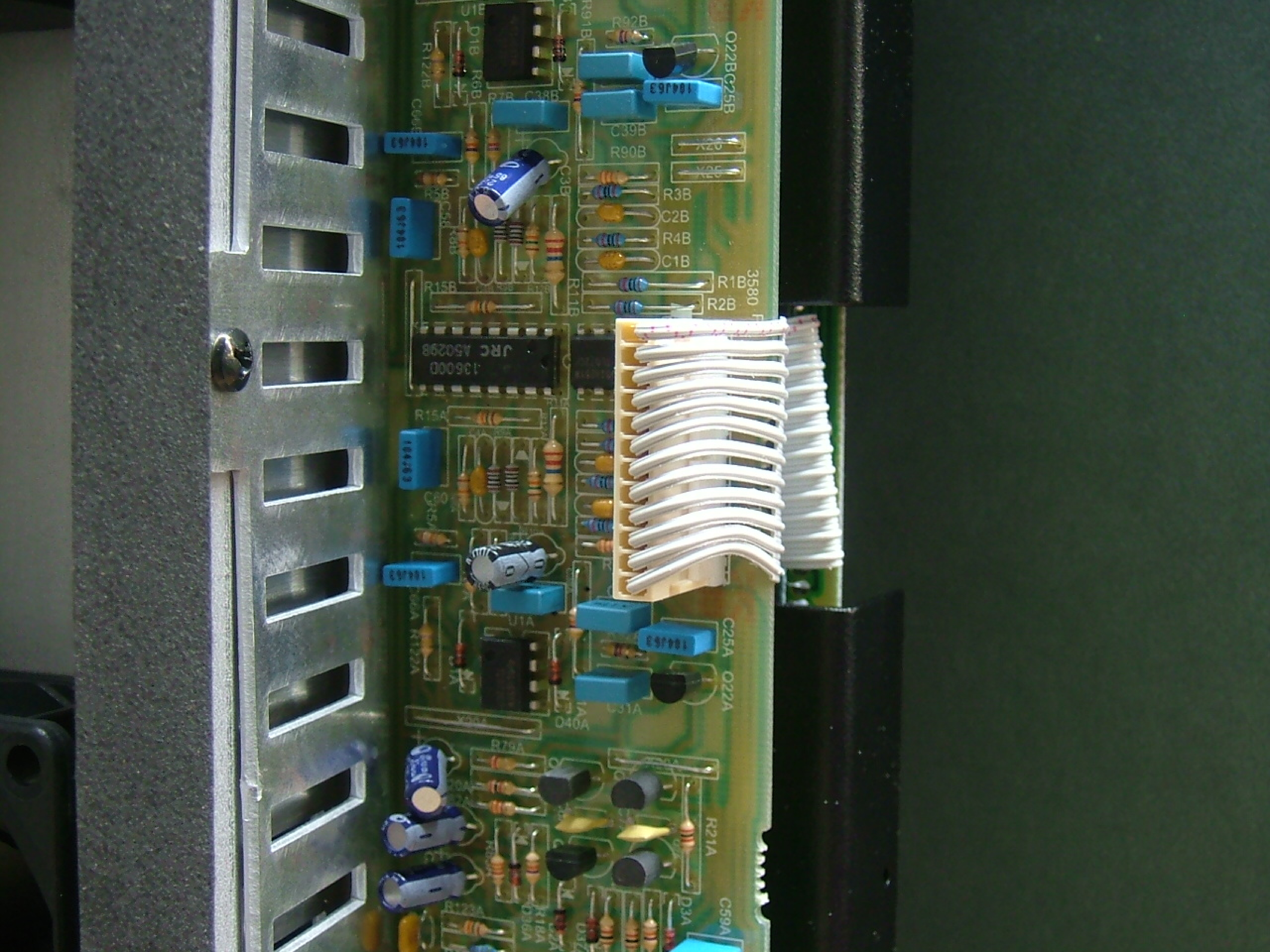
Blank Size - 17900 x 10625



M1610 CE --WIRING DIAG.

SHOWN AS 245V OPERATION
FOR 245V: USE BLUE AND BLACK PRIMARY WIRES


Q22B
C25B
R92B
C39B
R90B
R3B
C2B
R4B
C1B
3580
R1B
R2B
C25A
Q22A
R21A
C59A
D3A
R91B
C3B
C38B
D1B
R6B
R122B
C66B
R5B
R15B
JRC
A5028
136000
R15A
C60
R5A
66A
R122A
D40A
R18A
D36A
R85A
R123A
D1A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Q22B
C25B
C38B
C39B
R90B
R3B
C2B
R4B
C1B
R1B
R2B
3580
R15B
JRC
R15A
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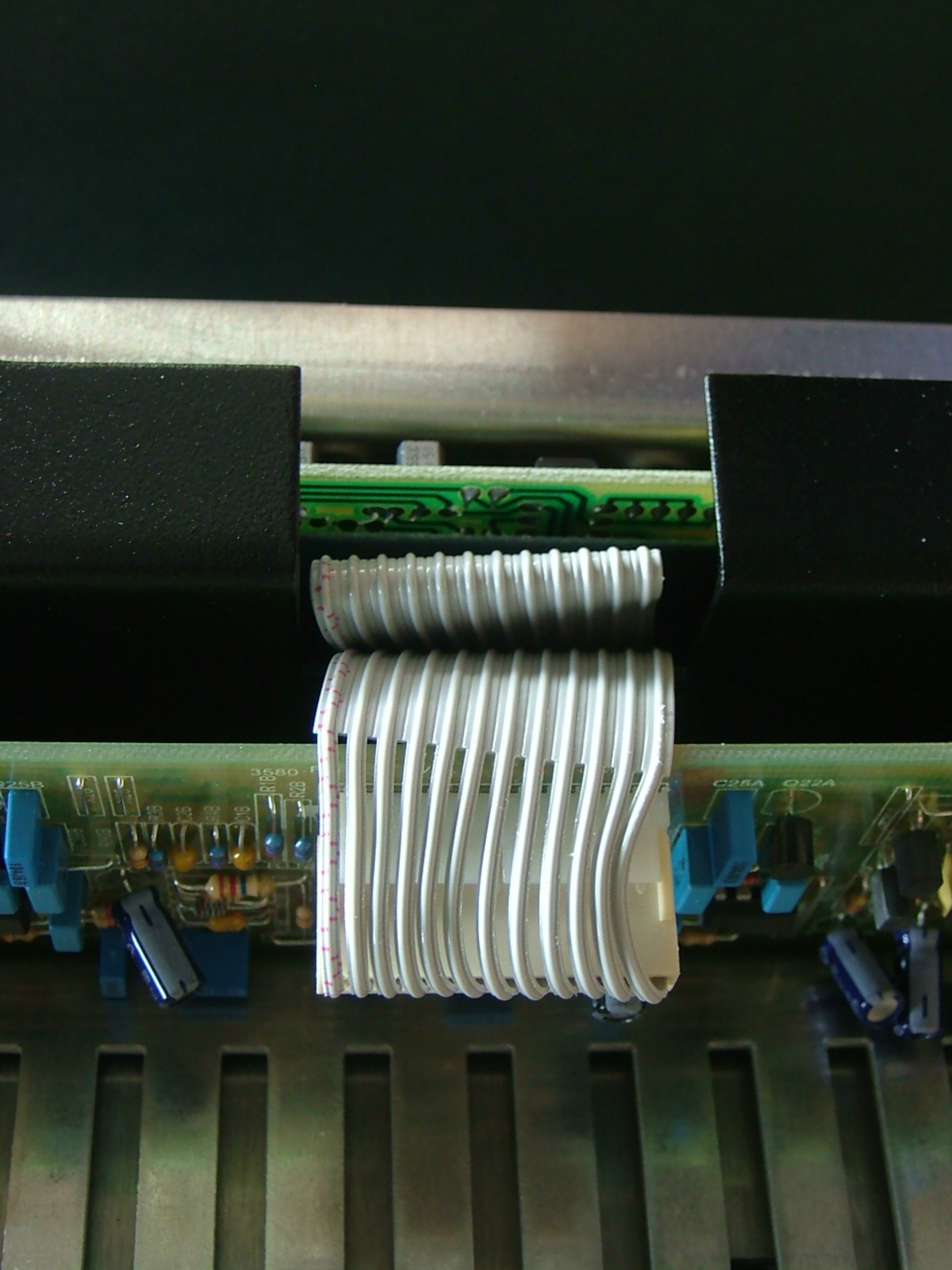
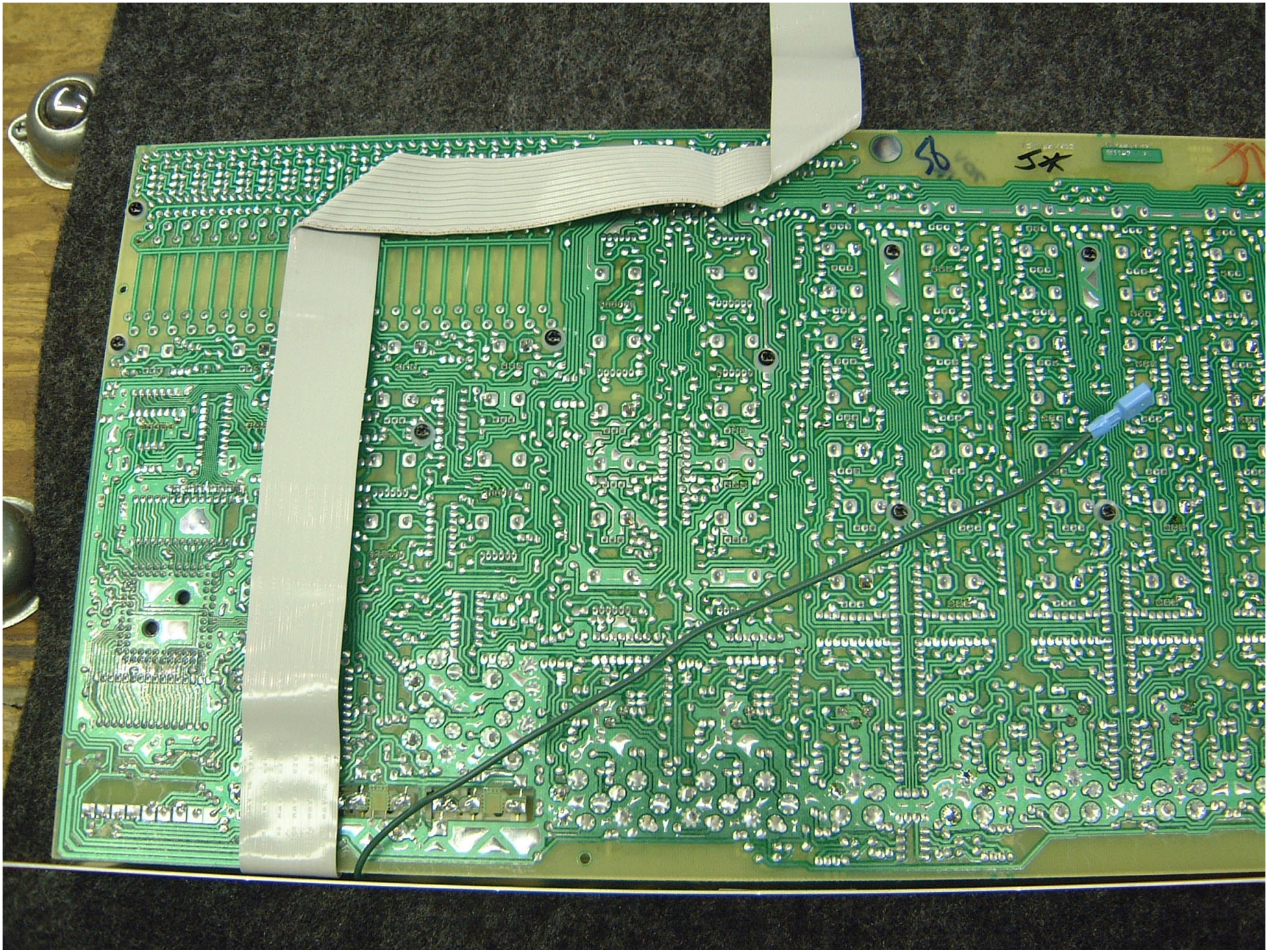
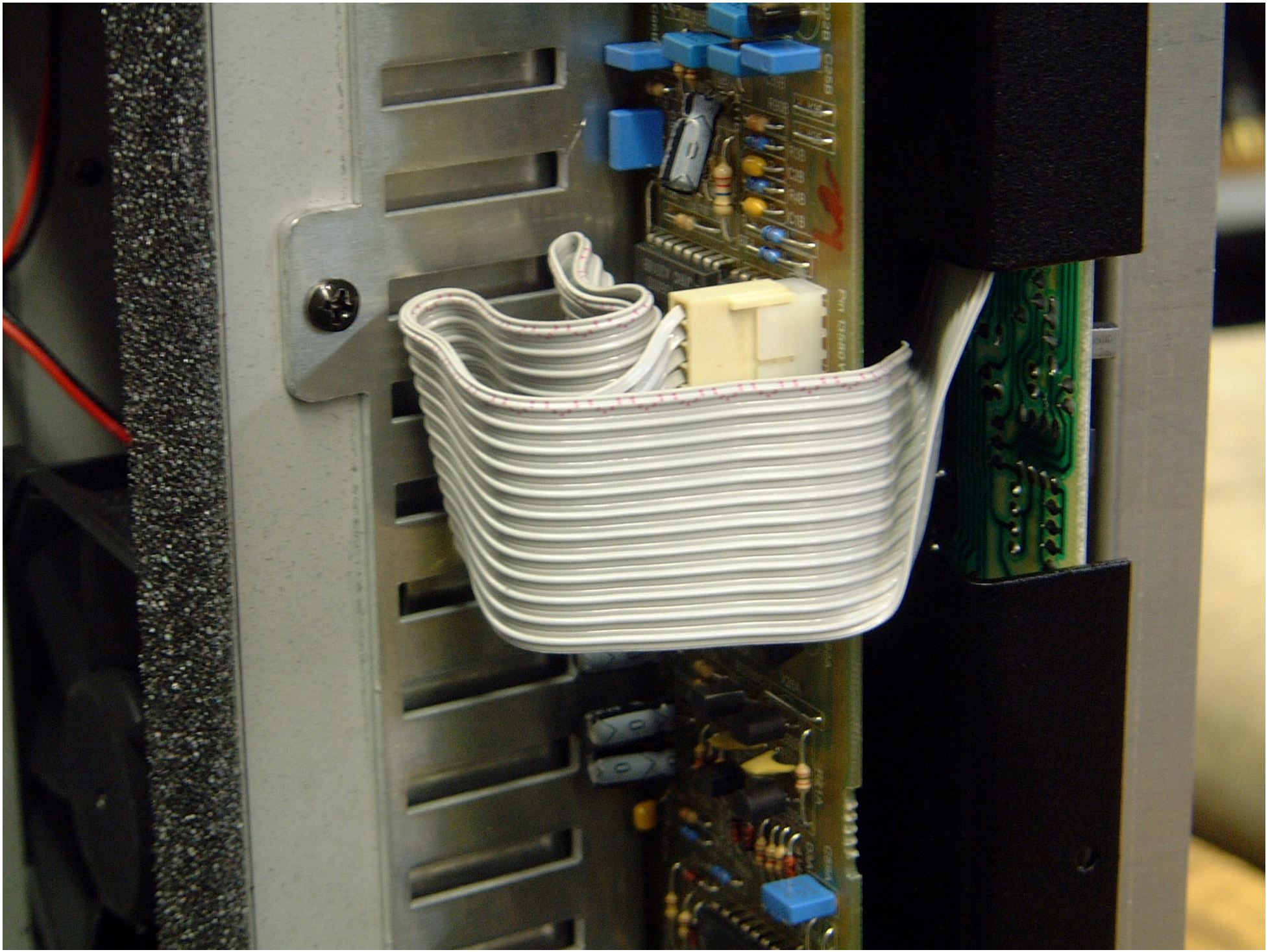
C59A


R1B
R2B
C25A
Q22A





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

PRIORITY	NORM	X-JOB	PC No. ▶	8383	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
M1610-2	M1190		
M810-2	M1194		

APPROVAL	
SL	
BW	
TW	
PM	
DESIGNER	

ORIGINATOR	
FROM	Sheila Thomson
DEPT	Board Assembly
DATE	Jan 10, 2012
ORIGINATOR'S SIGNATURE	UPON COMPLETION
DESIGNER'S SIGNATURE	UPON COMPLETION

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

Go from single to double sided boards

DONE IN PROCESS
Completed May 17th 2012
ML

REASON FOR CHANGE

> Too many eyelets M1190 - 52 eyelets, M1194 41 eyelets.
> Condition of the eyelet machine and the resulting wear and tear on the hands and arms of the workers
> These two boards were deemed 'suitable candidates' on the list that Brian made several months back due to the number of eyelets per board and the yearly sales of these two products
> X8003 has been completed and everyone loves it

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

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

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

PROPOSAL FOR CHANGE

Yorkville

PRIORITY	NORM	X-JOB	PC No. ▶	8423	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
M810	M1194	V11	
M1610 ✓	M1190	V12	
K4	M1238	V05	
PM2012 ✓	M1192	V01	
PM16/22-2	M1124	V03	

SL	
BW	
TW	
PM	

ORIGINATOR

FROM	George Giurgea
DEPT	PEng
DATE	Apr 10, 2012
	UPON COMPLETION
	UPON COMPLETION

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

Replace YS #6467 10K thermistor T-O-D with YS #6619 10K thermistor VISHAY.

REASON FOR CHANGE

YS #6467 obsoleted by manufacturer.

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
6467	_10K 10%	THERMISTOR TO-92 NTC	X					0.21	
6619	_10K 10%	THERMISTOR VISH NTC		X				0.27	

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

SEE TOMW-DW

Yorkville PROPOSAL FOR CHANGE

PRIORITY	NORM	X-JOB	PC No. ▶	7284	TEMP
PO	NO	XO			TO

DATE REQUIRED PETER.

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

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!

	ADEL		ANDREW		AFSHIN		GEORGE		JAMES

PRODUCTION ENGINEERING ESTIMATED TIME FOR COMPLETION

MODEL	PCB/CHAS	VERSION	TASK ORDER
	M1189		
	M594		
	M650		

APPROVAL	
SL	JL
TW	
PM	

ORIGINATOR

FROM	Rick Wong
DEPT.	Purch
DATE	June 26, '07

DESCRIPTION OF CHANGE

Implement a new digital effects circuit in place of the current ART derived design

ASSIGN THE JOB TO PETER.
WEEKLY FOLLOW UP. BEFORE NUM OUT.

REASON FOR CHANGE

Our last time buy supply of YSH 6994 COPEC could be depleted in eight months

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

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

NOTICE: ORIGINAL PCS MUST NOT GO OUT INTO PRODUCTION

FORM-Proposal-for-Change-4v00.ai

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

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

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

PROPOSAL FOR CHANGE

Yorkville

PRIORITY	NORM	X-JOB	PC No. ▶	8423	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
M810 ✓	M1194	V11	
M1610 ✓	M1190	V12	
K4 ✓	M1238	V05	
PM2012 ✓	M1192	V01	
PM16/22-2	M1124	V03	

SL	
BW	
TW	
PM	

ORIGINATOR

FROM	George Giurgea
DEPT	PEng
DATE	Apr 10, 2012
	UPON COMPLETION
	UPON COMPLETION

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

Replace YS #6467 10K thermistor T-O-D with YS #6619 10K thermistor VISHAY.

REASON FOR CHANGE

YS #6467 obsoleted by manufacturer.

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
6467	_10K 10%	THERMISTOR TO-92 NTC	X					0.21	
6619	_10K 10%	THERMISTOR VISH NTC		X				0.27	

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

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