



WEB: www.yorkville.com

WORLD HEADQUARTERS

CANADA

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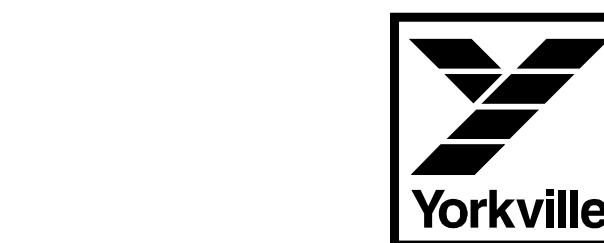
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SERVICE MANUAL

DH15H

SMT Disclaimer

Due to the complex nature of the use of SMT installed components in Yorkville equipment, we highly caution all service technicians in attempting to repair or replace SMT factory installed components.

Many of these components may be glued prior to initial soldering.

Replacing SMT components requires expensive specialized de-soldering equipment and training.

Yorkville Sound will repair and replace defective SMT components to ensure proper quality assurance and installation is maintained.

Quality and Innovation Since 1963
Printed in Canada

IMPORTANT SAFETY INSTRUCTIONS



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

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

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

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



SEPARATE
COLLECTION
WEEE



CAUTION: HOT SURFACE
ATTENTION: SURFACE CHAUE



DO NOT
PUSH OR PULL



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

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

FOLLOW ALL INSTRUCTIONS

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

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

NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE

PERSONNEL. THIS DEVICE IS FOR INDOOR USE ONLY!

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

SUIVEZ TOUTES LES INSTRUCTIONS

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

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

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

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

Clean only with dry cloth.

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

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

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

Power Sources

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

Hazards

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

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

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

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

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

Power Cord

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

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

Service

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

IMPORTANT SAFETY INSTRUCTIONS



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



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

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water.

6. Clean only with dry cloth.

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

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

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

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

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

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

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

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

WARNING:

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

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

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



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



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

1. Lisez ces instructions.

2. Conservez ces instructions.

3. Respectez tous les avertissements.

4. Suivez toutes les instructions.

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

6. Nettoyez uniquement avec chiffon sec.

7. Ne bloquez pas les ouvertures de ventilation. Installez en suivant les instructions du fabricant.

8. Ne pas installer près des sources de chaleur telles que radiateurs, bouches de chaleur, four ou autres appareils (y compris les amplificateurs) produisant de la chaleur.

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

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

11. Utilisez uniquement les accessoires spécifiés par le fabricant.

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

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

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

AVERTISSEMENT:

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

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

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



CAUTION

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



AVIS

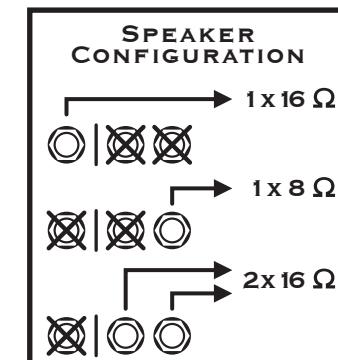
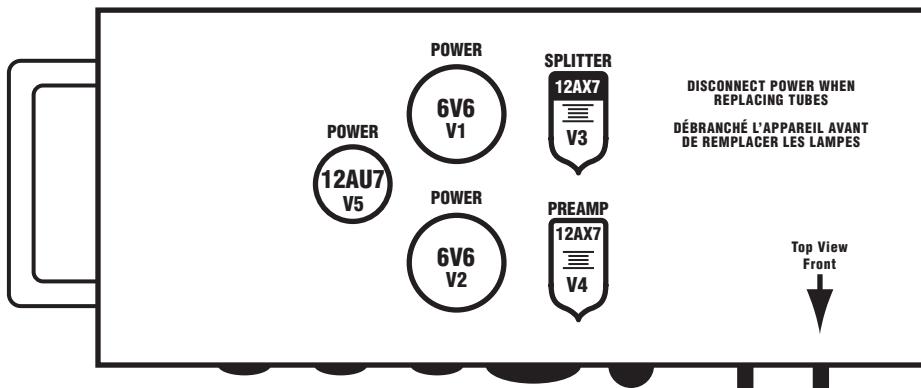
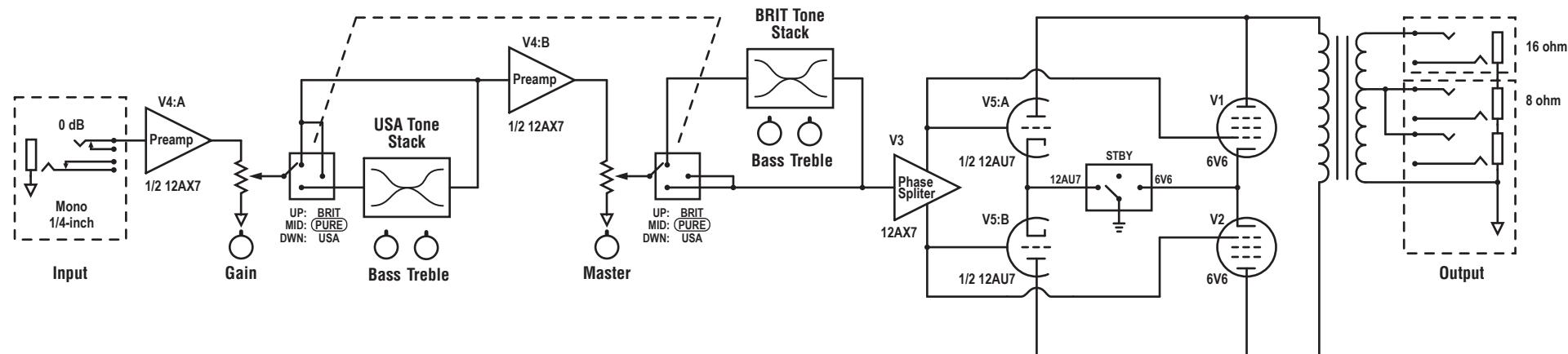
POUR PRÉVENIR LES RISQUES D'ÉLECTROCUSSION,
NE PAS RACCORDER A L'ALIMENTATION ÉLECTRIQUE ALORS
QUE LA GRILLE EST RETIRÉE.

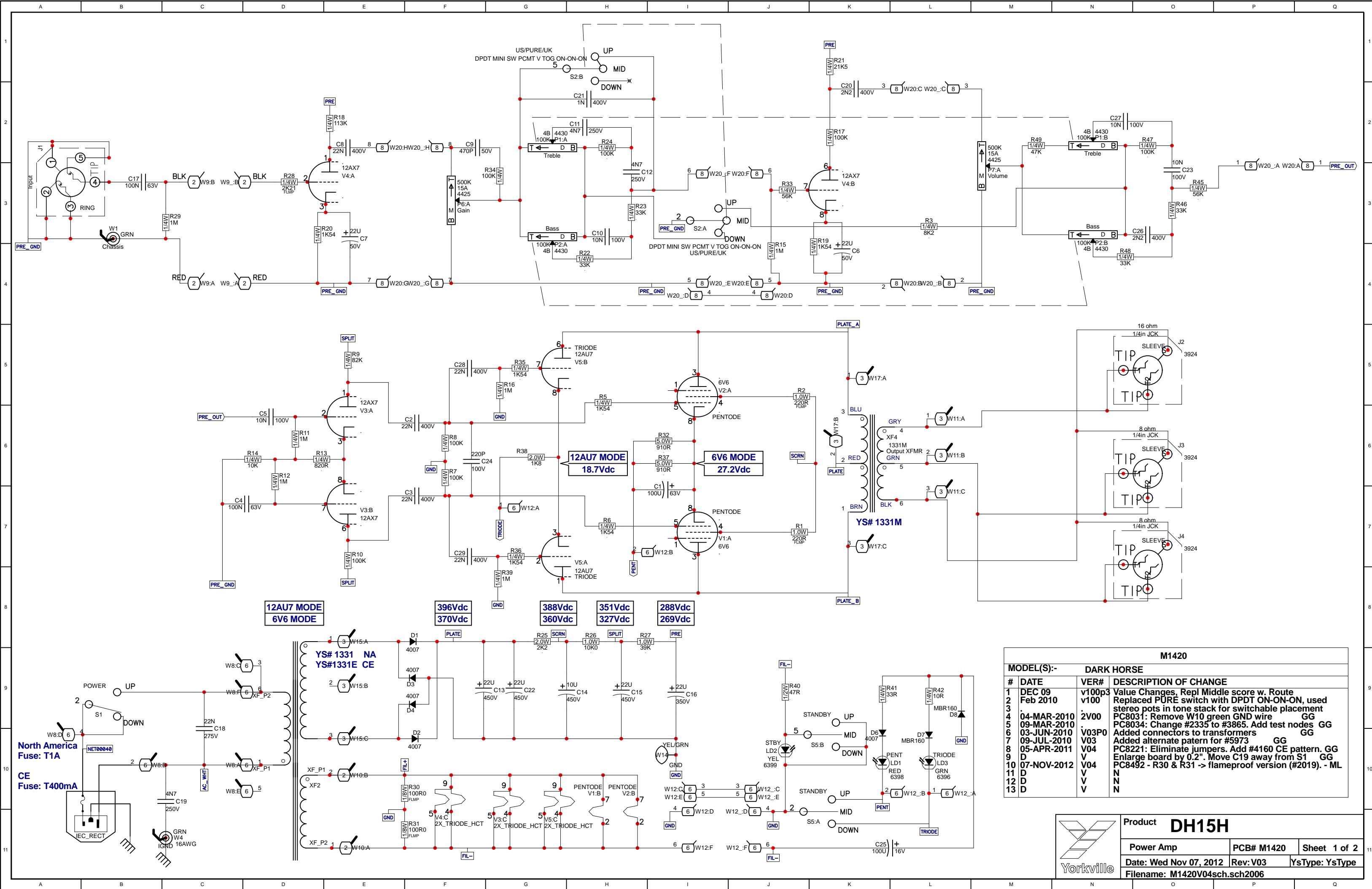


Block Diagram for DH15H

DESIGNED AND MANUFACTURED BY YORKVILLE SOUND

TYPE: YS1085





 BREAK ON THIS LINE FOR CLINCH

BlankSize - 17750x13100

M1420 V04

Score
INSEAD
VCD
ORIG

Top M1420 vo

Pcb Mech M1420V04
Top Assy M1420V04

SEE LAYOUT DOCUMENTATION



SEE LAYOUT DIAGRAM



M1420

MODEL(S):-		DARK HORSE	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	DEC 09	v100p3	Value Changes, Repl Middle score w. Route
2	Feb 2010	v100	Replaced PURE switch with DPDT ON-ON-ON, used
3	.	.	stereo pots in tone stack for switchable placement
4	04-MAR-2010	2V00	PC8031: Remove W10 green GND wire GG
5	09-MAR-2010	.	PC8034: Change #2335 to #3865. Add test nodes GG
6	03-JUN-2010	V03P0	Added connectors to transformers GG
7	09-JUL-2010	V03	Added alternate patern for #5973 GG
8	05-APR-2011	V04	PC8221: Eliminate jumpers. Add #4160 CE pattern. GG
9	D	V	Enlarge board by 0.2". Move C19 away from S1 GG
10	07-NOV-2012	V04	PC8492 - R30 & R31 -> flameproof version (#2019). - M
11	D	V	N
12	D	V	N
13	D	V	N

M1420

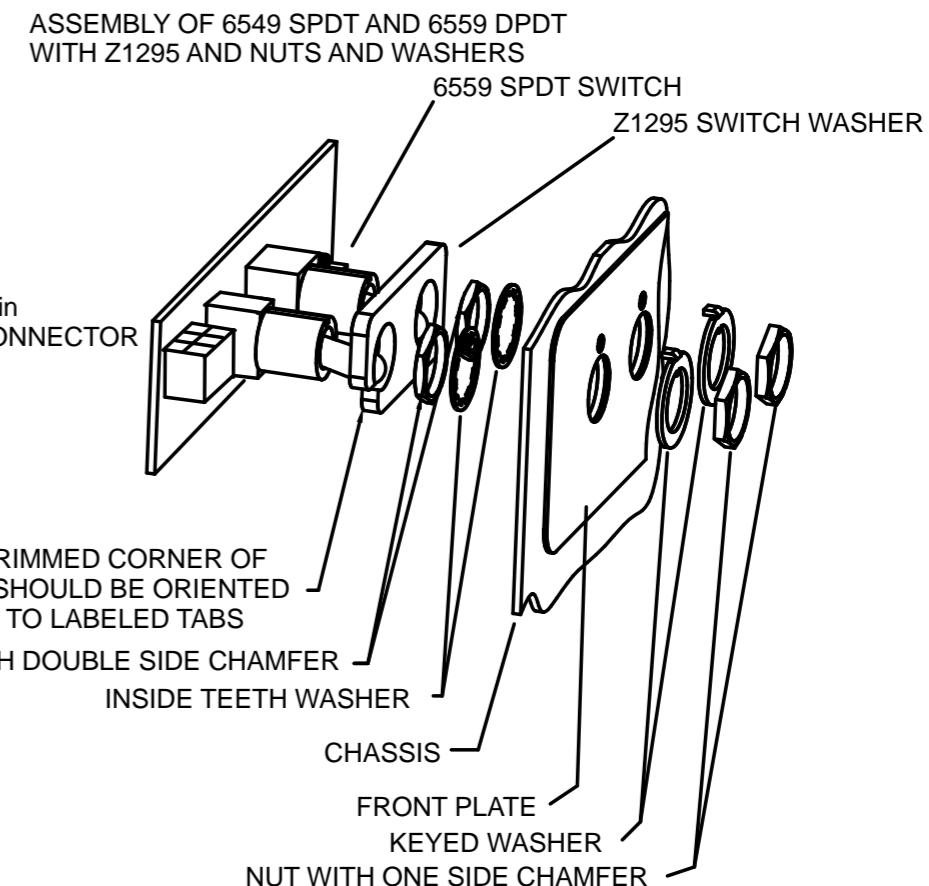


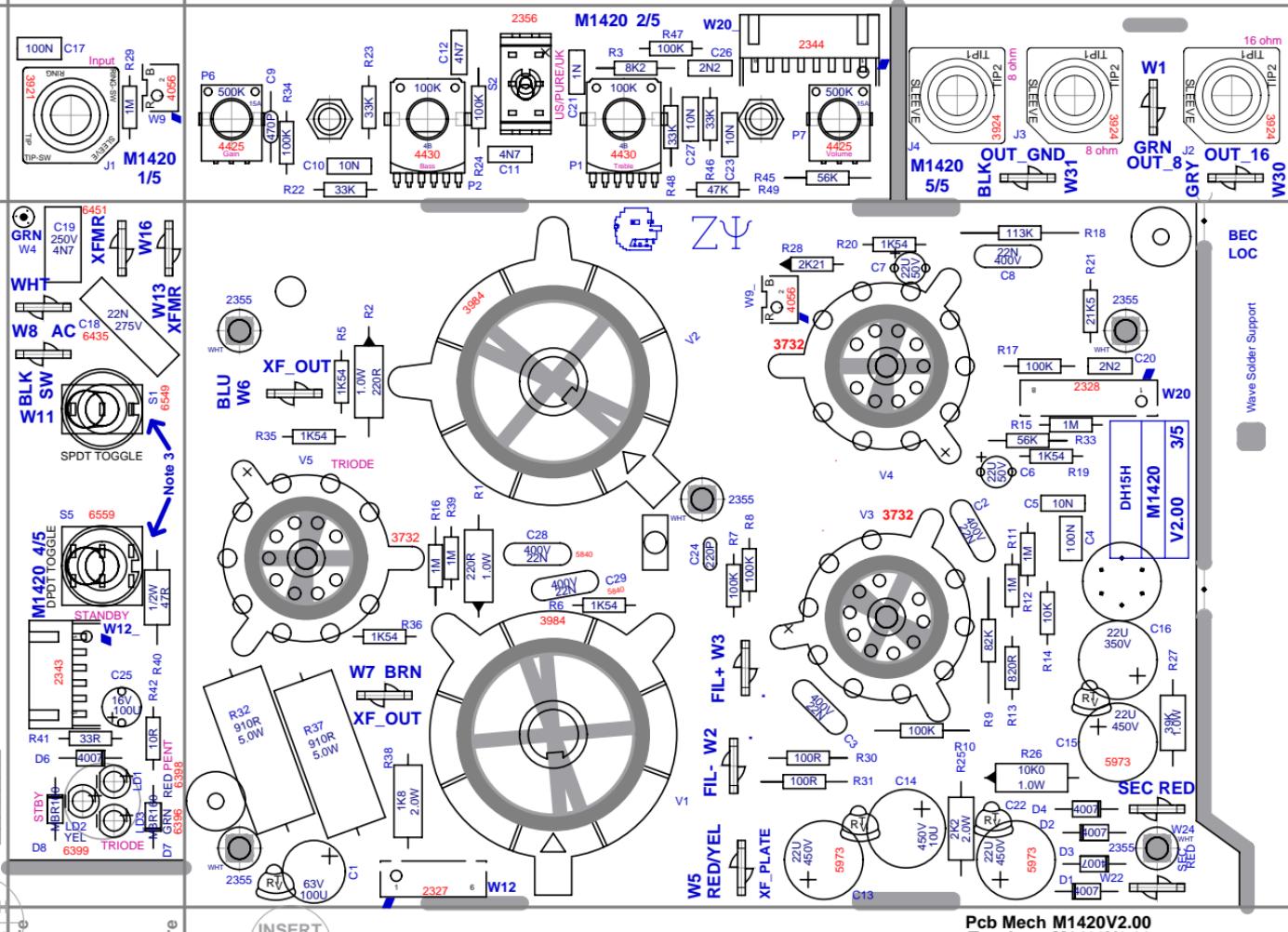
SEE LAYOUT DIAGRAM



M1420 V04 PRODUCTION NOTES

1. RTV MUST BE ADDED TO THE FOLLOWING CAPS:
C1, C22, BETWEEN C13-C14, C15-C16
2. C18 IS 22N FOR BOTH NORTH AMERICA AND CE
3. KEYWAY OF S1 AND S5 MUST FACE ARROW ON SILKSCREEN
4. HARDWARE FOR 6549 & 6559 MUST BE ASSEMBLED IN ORDER
INDICATED IN ASSEMBLY DRAWING





Pcb Mech M1420V2.00
Top Assy M1420V2.00

1. Plug the AC power line into a 3-hole grounded outlet.
2. Connect the amp to an 8 or 16 ohm cabinet via the jacks on the back of the amp.
3. Flip the Standby switch to the middle position and turn the Power switch ON.
4. Plug in your instrument and turn the Master control to zero.
5. Turn the Gain, Treble and Bass controls to their mid position.
6. Select which output tube you want to use with the Standby switch. In the down position you'll be in the lower power mode with a true triode 12AU7 output stage. Flip the switch to the up position to engage the higher power of the pentode 6V6 stage. Aside from the power levels, you'll find each of the output tubes has their own sound.
7. Crank up the Master, dial in your tone and break a few strings!

Controls

Gain - This control adjusts the gain of the amp's first tube stage.

Bass and Treble - Use these controls to shape the overall tone of the amp.

Tonestack Switch

Brit – Setting to Brit mode positions the tonestack after the second tube stage, just before the phase splitter, which is similar to classic English rock amp designs. This mode also has a boost in the mid frequencies making it great for lead tones and high gain chord bashing.

Pure – A Pure setting – This position bypasses the tonestack. What you get is the natural EQ of the amp and the hottest possible signal going to the power amp.

USA – The USA

mode positions the tonestack between the first and second tube stages, just as you'd find it in classic American amps. Sounds great for clean tones, blues and country.

Traynor

DARKHORSE DH15H

Master - The Master control sets the overall output volume of the DH15H.

Standby / Output - In the mid position, your amp will be in standby as indicated by the amber pilot light. Switch to the down position to use the

12AU7 Triode tube stage. You'll see the pilot light go green. Flip to the up position to get the 6V6 Pentode stage. The pilot light turns red – that means it's loud!

Power Switch - When you turn your amp off, set the Output switch to 6V6 mode. This will discharge the capacitors in your amp's power supply when you're not using it.

Speaker Cabinets - On the rear of the DH15H you'll find a 16-ohm output jack and a pair of 8-ohm output jacks.

Tips on Tone

1. The DarkHorse's tonestack is It's based on a tonestack found in several vintage Traynor amps and has a lot of range on the controls.
2. Maximum headroom – if you're looking to get a great clean tone, go to 6V6 mode, switch to USA mode and lower the Gain. You'll find that the amp also gets brighter as you turn the Gain control down. This can be great for a sparkly clean tone that cuts through. Dialing the Gain up in USA mode will thicken up the tone and just start to induce some amp breakup.
3. Want maximum gain at low volume? Go to 12AU7 mode and crank the Gain control in Brit mode with the Master control turned low. Need max gain and max volume? Turn up the Gain and Master in 6V6 mode with the tonestack set to Pure. You'll find that Brit mode has more gain with the Master turned down while the Pure puts out more with Master cranked.



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

**REAL Gear.
REAL People.**



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1. Branchez le cordon d'alimentation à une prise CA à trois trous avec raccordement à la masse.

2. Branchez l'amplificateur à une enceinte à haut-parleur de 8 ou 16 ohms en utilisant les prises à l'arrière de l'amplificateur.

3. Réglez le sélecteur Standby à la position centrale et le sélecteur de mise en marche à la position ON.
4. Branchez votre instrument et réglez la commande Master à zéro.
5. Réglez les commandes de Gain, Treble et Bass à leur position centrale.
6. Choisissez à l'aide du sélecteur Standby, les lampes de sortie que vous désirez utiliser. Le mode de puissance réduite avec étage de sortie triode 12AU7 est obtenu avec le sélecteur vers le bas. Réglez le sélecteur vers le haut pour obtenir le mode de puissance plus élevée de l'étage de sortie pentode 6V6. En plus d'offrir des niveaux de puissance qui diffèrent, chaque ensemble de lampe de sortie offre une sonorité distincte.
7. Montez le Volume, réglez la tonalité au choix et laissez-vous aller!

Commandes

Gain - Cette commande ajuste le gain de la première étage de lampe de l'amplificateur.

Bass et Treble - Utilisez ces commandes pour façonner la tonalité générale de l'amplificateur.

Sélecteur Tonestack

Brit – Le réglage en mode Brit place le tonestack après la deuxième étage de lampe, juste avant le séparateur de phase, comme dans les conception classique des amplificateurs rocks Anglais. Ce mode dispose aussi d'un augmentation dans les médianes il est donc super pour les sons 'lead' et le jeu d'accord avec haut niveau de saturation.

Pure – Un réglage Pure – Cette position contourne le tonestack.

Vous obtenez ainsi la sonorité naturelle de l'amplificateur et la plus grande amplitude de signal à l'amplificateur de puissance.

USA – Le mode USA place le tonestack entre la première et la seconde étage de lampe, comme avec les conception classiques d'amplificateur Américain. Une sonorité superbe pour les sons claires, le blues et le country.

Master - La commande Master règle le niveau du volume général du DH15H.



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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