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# ***SERVICE MANUAL***

TYPE: YS1006

## ***YCV20 - Series 2*** ***Traynor Custom Valve 20***

### **WORLD HEADQUARTERS CANADA**

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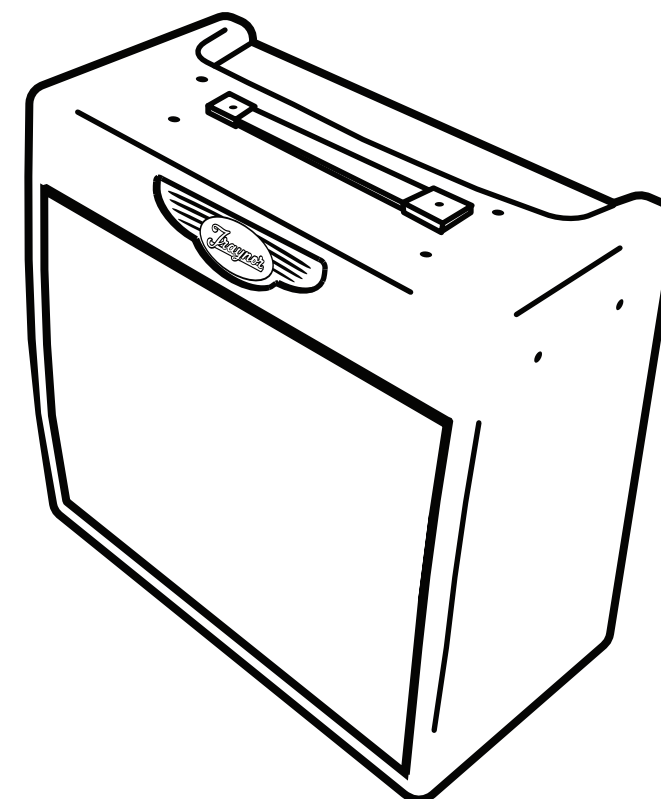
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**Quality and Innovation Since 1963**  
Printed in Canada



## IMPORTANT SAFETY INSTRUCTIONS



### INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

#### **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.**

### 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**

#### **Read Instructions**

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

#### **Packaging**

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

#### **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.

##### **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.

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.

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

##### **Power Cord**

The AC supply cord should be routed so that it is unlikely that it will be damaged. If the AC supply cord is damaged DO NOT OPERATE THE UNIT.

##### **Service**

The unit should be serviced only by qualified service personnel.

#### **Veillez Lire le Manuel**

Il contient des informations qui devraient être comprises avant l'opération de votre appareil. Conservez S.V.P. ces instructions pour consultations ultérieures.

#### **Emballage**

Conservez la boîte au cas où l'appareil devait être retourner pour réparation.

#### **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 être prises afin d'éviter que le système de mise à la terre de l'appareil ne soit désengagé.

##### **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.

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

L'appareil 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.

Les dispositifs marqués d'un symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connexion extérieure doivent être effectués par un opérateur formé ou en utilisant des cordons déjà préparés.

##### **Cordon d'Alimentation**

Évitez d'endommager le cordon d'alimentation. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé.

##### **Service**

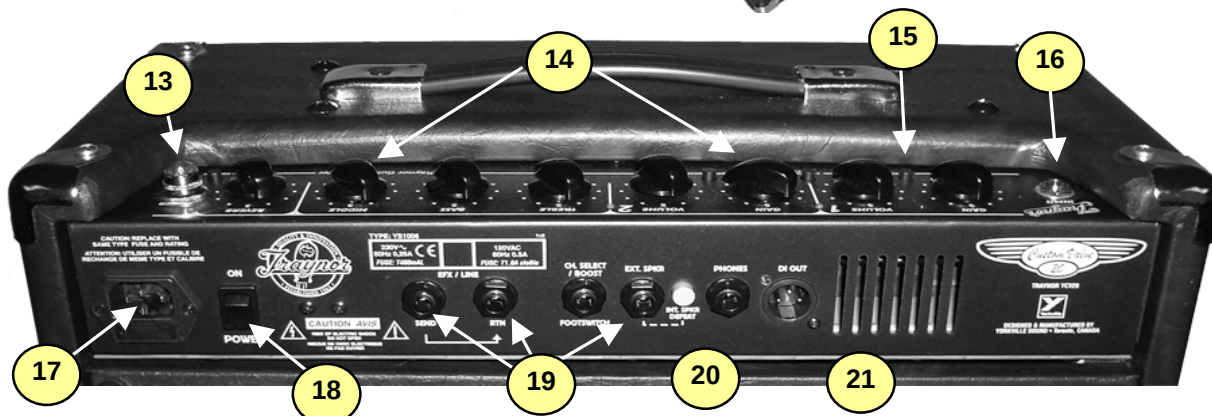
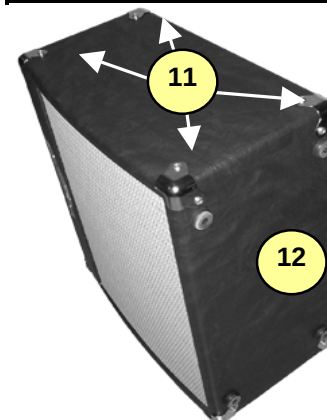
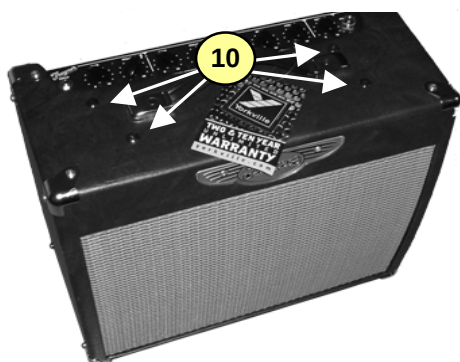
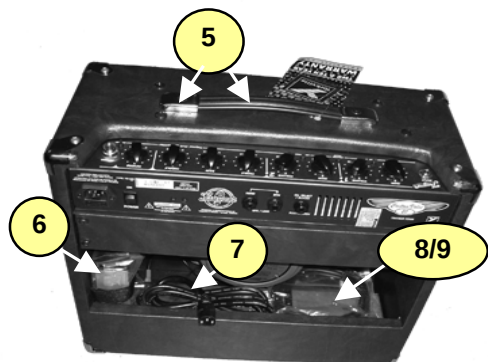
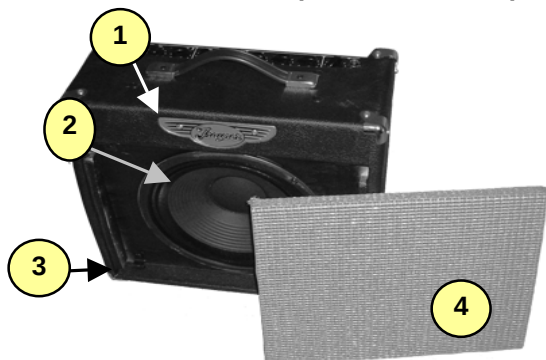
Consultez un technicien qualifié pour l'entretien de votre appareil.



# YCV20

## Traynor Guitar Series

### Series 2 (incl. WR version)



| #                  | Part#          | Description                             |
|--------------------|----------------|-----------------------------------------|
| Labeled Components |                |                                         |
| 1                  | 8260           | TRAYNOR LOGO                            |
| 2                  | 7079           | 12" 8R 50WPGM SPEAKER CELESTIO          |
| 3                  | 8461           | TRIM CLIP (PLATED BLK ZINC)             |
| 4                  | Z354           | YCV20 GRILLE* (‡ current model only)    |
| 5                  | 8456           | 10.0" STRAP HANDLE, NICKEL COVERS       |
| 6                  | TFS-2B         | TRAYNOR DUAL FOOTSWCH 10' CORD          |
| 7                  | 3428           | AC LINE CORD - #3474(EURO)              |
| 8                  | 3537           | ACC# 4EB3C1B LONG REVERB                |
| 9                  | 3890           | 36" PREFAB. CABLE (RED/BLACK)           |
| 10                 | 8770           | 1/4-20 X 1 5/16 TRUSS PH MS JS5         |
| 11                 | 8504           | CORNER, 2 LEGS NOTCED LIP NICKEL PLATED |
| 12                 | 8521           | RUBBER BUMPER WITH WASHER VERYS         |
| 13                 | 6397           | JEWELD PILOT LAMP AMBER REG             |
| 14                 | 8430           | CHICKEN-BEAK KNOB                       |
| 15                 | 8633           | ROUND PUSH BUTTON 1/4" BLACK            |
| 16                 | 3921           | 1/4" JCK PCB MT VERT STER RT SWT        |
| 17                 | 3438           | 230 AC RECEPTACLE FUSE & 250 T          |
| 18                 | 3698           | SPST ROKR SW QUIK 180" AC PWR B         |
| 19                 | 3450 & 3450NUT | 1/4" ALL GOLD PC MNT JK SKT             |
| 20                 | 3436/8661      | DPDT PUSH SW B4 MAKE/BUTTON KNOB GREY   |
| 21                 | 3923           | XLR MALE PCB MT HORZ MTHOLE-V SNAP      |
| 22                 | 7025A OR 7025B | 12AX7 DUAL TRIODE PREAMP TUBE           |
| 23                 | 6BQ5           | 6BQ5 PENTODE OUTPUT TUBE                |
| 24                 | 7078           | (WINE) 12" 8R 25WPGM SPEAKER CELESTION  |
| 25                 | 3552           | NYLON SPRING CLAMP                      |

22/23 TUBES

24 Wine Red Version Speaker

\*NOTE: Replacement grilles are 'Special-Order' and are only available while the model is in production.

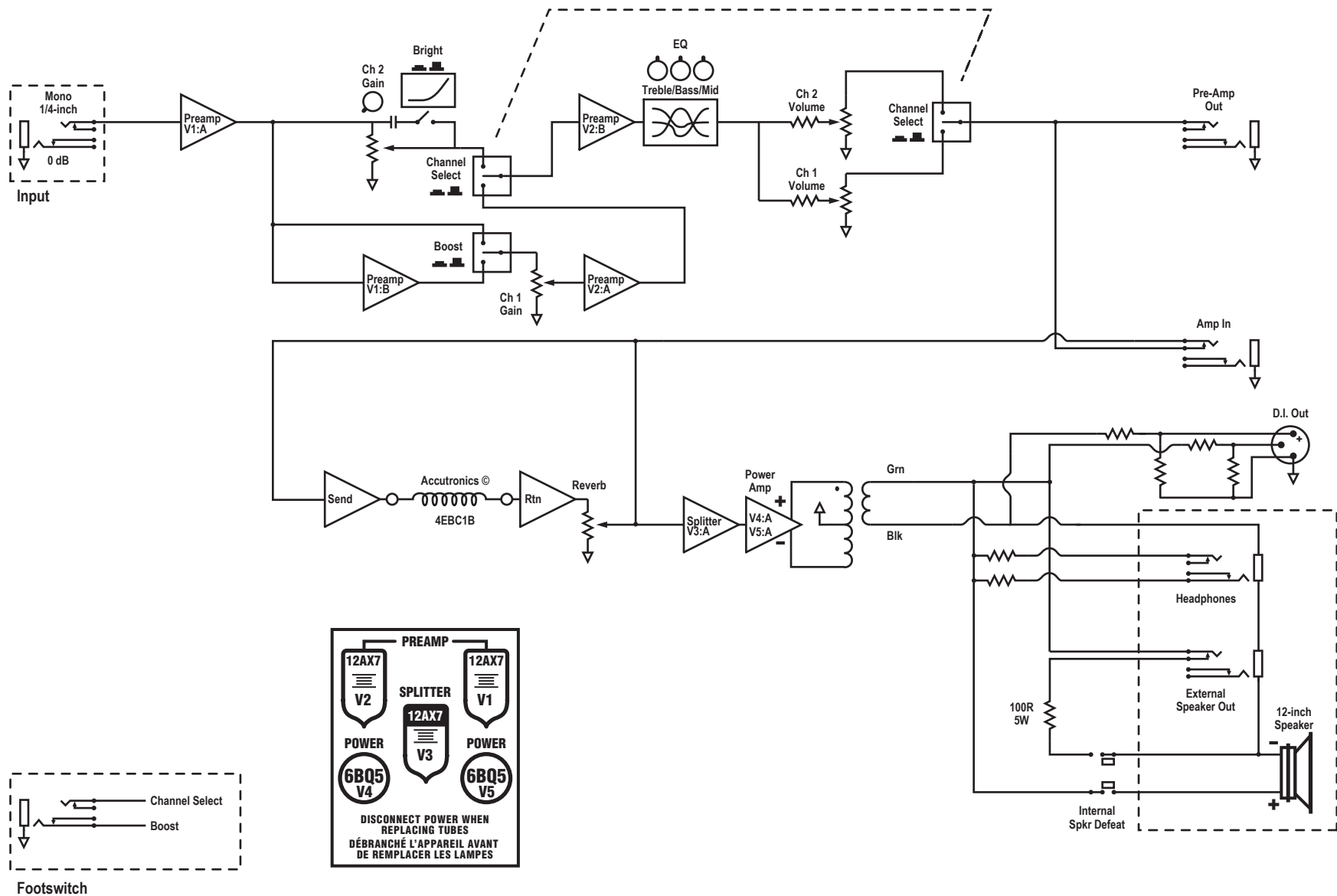
‡ Grilles & support replacements are for CURRENT models only

**Real Gear.  
Real People.**

TYPE: YS1006

# Block Diagram for YCV20 II

DESIGNED AND MANUFACTURED BY YORKVILLE SOUND



# YCV20 - Series 2

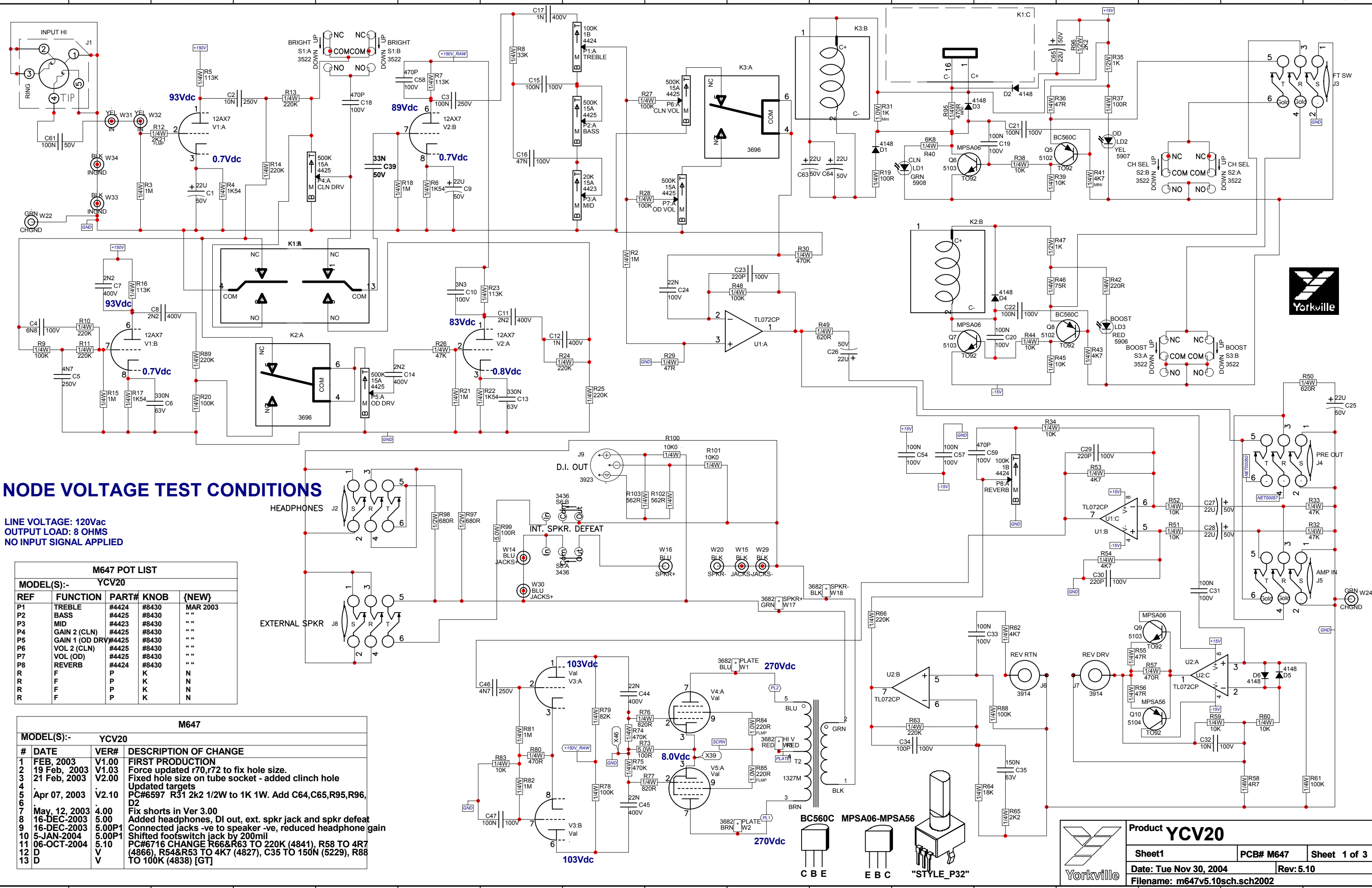
| YS No. | Description                          | Qty. | YS No. | Description                         | Qty. |
|--------|--------------------------------------|------|--------|-------------------------------------|------|
| 6397   | JEWELLED PILOT LAMP AMBER REG V1     | 1    | 4612   | 1/2W 18R 5% T&R RES                 | 3    |
| 5906   | RED 3MM LED 1V9 20MA .4SPCER T&R     | 1    | 4817   | 1/4W 47R 5% T&R RES                 | 4    |
| 6398   | RED 5MM LED 1V5 20MA HIGH EFF        | 1    | 4912   | 1/4W 75R 5% T&R RES                 | 1    |
| 6399   | YEL 5MM LED 1V5 20MA HIGH EFF        | 1    | 2044   | 1/4W 101R0 FUSIBLE T&R RES          | 2    |
| 5907   | YEL 3MM LED 1V9 20MA .4SPCER T&R     | 1    | 4692   | 5.0W 100R 5% BLK RES                | 2    |
| 5908   | GRN 3MM LED 1V9 20MA .4SPCER T&R     | 1    | 4852   | 1/4W 100R 5% T&R RES                | 2    |
| 6825   | 1N4148 75V 0A45 DIODE T&R            | 6    | 2022   | 1.0W 220R 5%FLAME PROOF T&R RES     | 3    |
| 6438   | 1N4007 400V 1A0 DIODE T&R            | 9    | 4857   | 1/4W 220R 5% T&R RES                | 1    |
| 6461   | 1N5240BRL 10V0 0W5 ZENER 5% T&R      | 1    | 4713   | 1.0W 470R 5% T&R RES                | 1    |
| 6475   | 1N5262B 51V0 0W5 ZENER 5% T&R        | 3    | 4821   | 1/4W 470R 5% T&R RES                | 3    |
| 6871   | MC7915CT TO220 N 15V0 REG V2         | 1    | 4980   | 1/4W 470R 5%MINI T&R RES            | 1    |
| 6872   | MC7815CT TO220 P 15V0 REG V1         | 1    | 4799   | 1/4W 562R 1% T&R RES                | 2    |
| 5102   | BC560C TO92 PNP TRANSISTOR T&R TB    | 2    | 4891   | 1/4W 620R 5% T&R RES                | 2    |
| 5103   | MPSA06 TO92 NPN TRANSISTOR T&R TA    | 3    | 4673   | 1/2W 680R 5% T&R RES                | 2    |
| 5104   | MPSA56 TO92 PNP TRAN T&R TA          | 1    | 4822   | 1/4W 820R 5% T&R RES                | 2    |
| 6730   | IRF830 TO220 NCH MFET TN             | 1    | 4623   | 1/2W 1K 5% T&R RES                  | 2    |
| 6882   | TL072CP IC FET DUAL OP AMP           | 2    | 4913   | 1.0W 1K 5% T&R RES                  | 1    |
| 5199   | 100P 100V 2%CAP T&R RAD CER.2"NPO    | 1    | 4791   | 1/4W 1K54 1% T&T RES                | 4    |
| 5197   | 220P 100V 2%CAP T&R RAD CER.2"NPO    | 3    | 4647   | 1/2W 2K2 5% T&R RES                 | 1    |
| 5201   | 470P 100V 5%CAP T&R RAD CER.2"NPO    | 3    | 4847   | 1/4W 2K2 5% T&R RES                 | 1    |
| 5206   | 1N 400V 5%CAP T&R RAD .2"FLM         | 2    | 2035   | 1/4W 2K21 1%FLAME PROOF T&R RES     | 1    |
| 5208   | 2N2 400V 5%CAP T&R RAD .2"FLM        | 4    | 4827   | 1/4W 4K7 5% T&R RES                 | 2    |
| 5275   | 3N3 100V 5%CAP T&R RAD .2"FLM        | 1    | 4982   | 1/4W 4K7 5%MINI T&R RES             | 1    |
| 5209   | 4N7 250V 5%CAP T&R RAD .2"FLM        | 2    | 4828   | 1/4W 6K8 5% T&R RES                 | 1    |
| 6451   | 4N7 250V 20%CAP BLK 'Y' 10MM AC      | 1    | 4800   | 1/4W 10K0 1% T&R RES                | 2    |
| 5272   | 6N8 100V 5%CAP T&R RAD .2"FLM        | 1    | 4829   | 1/4W 10K 5% T&R RES                 | 13   |
| 5204   | 10N 100V 10%CAP T&R RAD .2"FLM       | 1    | 5031   | 1.0W 10K0 5% T&R                    | 2    |
| 5834   | 10N 250V 20%CAP BLK RAD POLY FLM     | 1    | 4831   | 1/4W 18K 5% T&R RES                 | 1    |
| 5210   | 22N 100V 10%CAP T&R RAD .2"FLM       | 1    | 4840   | 1/4W 33K 5% T&R RES                 | 1    |
| 5840   | 22N 400V 10%CAP BLK RAD POLY FLM     | 2    | 4834   | 1/4W 47K 5% T&R RES                 | 3    |
| 6435   | 22N 275V 20%CAP BLK 'X2' 15MM AC     | 1    | 4848   | 1/4W 62K 5% T&R RES                 | 1    |
| 5306   | 33N 50V 10%CAP T&R BEAD X7R          | 1    | 4837   | 1/4W 82K 5% T&R RES                 | 1    |
| 5224   | 47N 100V 10%CAP T&R RAD .2"FLM       | 2    | 4838   | 1/4W 100K 5% T&R RES                | 7    |
| 5226   | 68N 100V 5%CAP T&R RAD .2"FLM        | 1    | 4776   | 1/4W 113K 1% T&R RES                | 4    |
| 5212   | 100N 63V 5%CAP T&R RAD .2"FLM        | 10   | 4841   | 1/4W 220K 5% T&R RES                | 7    |
| 5314   | 100N 50V 10%CAP T&R BEAD X7R         | 3    | 4843   | 1/4W 470K 5% T&R RES                | 5    |
| 5865   | 100N 250V 10%CAP BLK RAD POLY FLM    | 1    | 4880   | 1/4W 680K 5% T&R RES                | 1    |
| 5882   | 220N 250V 10%CAP BLK RAD POLY FLM    | 1    | 4844   | 1/4W 1M 5% T&R RES                  | 7    |
| 5233   | 330N 63V 5%CAP T&R RAD .2"FLM        | 2    | 3610   | 10" 9C-26AWG RIB 3/4" NOTCH 0.1"    | 2    |
| 5629   | 10U 160V 20%CAP BLK 10X13MM EL       | 1    | 3696   | RELAY 1C 02AMP DC24 006MA PC-S      | 2    |
| 5631   | 22U 50V 20%CAP T&R 6X7MM .2"EL       | 9    | 3700   | RELAY 2C 01AMP DC24 015MA PC-S      | 1    |
| 5958   | 22U 350V 20%CAP BLK 13X25 EL         | 6    | 3537   | ACC# 4EB3C1B LONG REVERB            | 1    |
| 5618   | 470U 25V 20%CAP BLK 10X15MM EL       | 4    | 8865   | 4-40 X 5/16 PAN PH MS JS500         | 14   |
| TFS-2B | TRAYNOR DUAL FOOTSWCH 10' CORD-BULK  | 1    | 8832   | 6-32 X 1/4 PAN PH TAPTITE JS500     | 9    |
| 4423   | 20K 15AAUDIO 9MM P32                 | 1    | 8801   | 6-32 X 3/8 PAN PH TAPTITE JS500     | 2    |
| 4424   | 100K 1B LIN 9MM P32                  | 2    | 8829   | 6-32 X 3/8 FLAT PH TAPTITE BO#4 HEA | 11   |
| 4425   | 500K 15AAUDIO 9MM P32                | 5    | 8837   | 6-32 X 1/2 ROUND PH MS JS500        | 3    |
| 713    | 25 X 20 X 50 2 MIL PLASTIC BAG       | 1    | 8757   | #6 X 5/8 PAN PHIL TYPE A ZINC CLEAR | 2    |
| 3976   | SNAP ON 0.843" INSULATING BUSHING    | 2    | 8824   | 8-32 X 5/16 PAN QUAD TAPTITE JS500  | 2    |
| 8461   | TRIM CLIP (PLATED BLK ZINC)          | 4    | 8722   | #8 X 1" PAN QUAD TYPE AB B/O        | 4    |
| 8521   | RUBBER BUMPER WITH WASHER VERYSMALL  | 4    | 8809   | 10-32 X 1/4 PAN PH TAPTITE JS500    | 25   |
| 3478   | CLIP 205/187X032 18-22AWG DISCO/INS  | 5    | 8750   | #10 X 1/2 PAN PH TYPE A ZINC        | 16   |
| 3489   | CLIP 250X032 18-22AWG DISCO/INSL     | 2    | 8756   | #10 X 3/4 PAN PH TYPE A BLACK OXIDE | 10   |
| 3494   | CLIP 205/187X020 14-16AWG DISCO/INS  | 2    | 8843   | 10-32 X 1 1/8 FLAT PH MS JS500      | 2    |
| 3601   | RING TERMINAL 16AWG WIRE & #8 SCREW  | 2    | 8786   | 10-32 X 1 1/4 PAN QD MS JS500 BLACK | 4    |
| 3682   | 250 MALE PCB TAB REEL                | 16   | 8862   | #10 X 1 1/2 PAN PH TYPE A JS500     | 4    |
| 3498   | 1/4" JCK PCB MT HORZ                 | 2    | 8770   | 1/4-20 X 1 5/16 TRUSS PH MS JS500   | 4    |
| 3528   | 1/4" JCK PCB MT HORZ GOLD TR         | 3    | 8905   | YORKVILLE PRODUCT SCHEMATIC         | 1    |
| 3921   | 1/4" JCK PCB MT VERT STER RT SWT     | 1    | 3741   | 5 SPACER ID-.171 OD-.25 #912-500    | 4    |
| 3890   | 36"90"RCA DUAL RED-WHITE PREFAB CBL  | 1    | 3865   | 1/2 PLASTIC HEX SPACER #6           | 9    |
| 3914   | RCA SINGL PCB MT HORZ                | 2    | 3858   | 3/4 PLASTIC HEX SPACER #4           | 7    |
| 3923   | XLR MALE PCB MT HORZ MTHOLE-V SNAP   | 1    | 7079   | 12" 8R 50WPGM SPEAKER CELESTION     | 1    |
| 3451   | EYELET SMALL 0.089 OD PLATED         | 13   | 8482   | 3/8 1D FLAT WASHER                  | 1    |
| 2471   | T1A 5X20MM FUSE                      | 1    | 8488   | 3/8 INT TOOTH LOCKWASHE ZINC        | 1    |
| 8456   | 10.0" STRAP HANDLE, NICKEL COVERS    | 1    | 8491   | #10 SPLIT LOCK WASHER BO            | 6    |
| 8604   | 10-32 T NUT                          | 6    | 8820   | #8 FLAT WASHER JS500                | 4    |
| 8889   | RUBBER GROMMET #2183-034-BLK         | 7    | 8817   | #10 FLAT WASHER FOR 3/16" BOLT      | 8    |
| 3438   | IEC PWR SOC W/ 205TAB & FUSE 10A250V | 1    | 3436   | DPDT PUSH SW PCMT H BREAK B4 MAKE   | 1    |
| 3552   | NYLON SPRING CLAMP                   | 2    | 3522   | DPDT MINI PC VERT SNP ALT           | 4    |
| 3810   | 4" NYLON CABLE TIE                   | 6    | 3698   | SPST ROKR SW QUIK 180" AC PWR BL/BL | 1    |
| 8430   | YCV40 CHICKEN-BEAK KNOB              | 8    | 3732   | 9 PIN PC MOUNT TUBE SOCKET BE       | 2    |
| 8504   | CORNER, 2 LEGS NOTCED LIP NICKEL     | 8    | 3983   | 9 PIN PC MOUNT TUBE SOCKET          | 3    |
| 8633   | ROUND PUSH BUTTON 1/4" BLACK         | 4    |        | 12AX7 DUAL TRIODE PREAMP TUBE       | 3    |
| 8661   | BUTTON KNOB FLAT GREY                | 1    |        | 6BQ5 PENTODE OUTPUT TUBE            | 2    |
| 3428   | 8' 3/18 SJT AC LINE CORD REMOVABLE   | 1    | 1330   | YCV20 POWER 120VAC 60HZ XFMR        | 1    |
| 8260   | YCV40 LOGO EMBOSSED ALUMINUM         | 1    | 1330M  | YCV20 OUTPUT XFMR                   | 1    |
| 8910   | YORKVILLE PRODUCT MANUAL             | 1    |        |                                     |      |
| 8900   | YORKVILLE WARRANTY CARD 2-YR UNLTD.  | 1    |        |                                     |      |
| 3674   | 9 CIR CABLE HOLDER .098              | 4    |        |                                     |      |
| 8800   | 6-32 KEPS NUT ZINC                   | 5    |        |                                     |      |
| 8890   | 1/4-20 CAGE NUT C79-88142027         | 4    |        |                                     |      |
| 3796   | ELASTOMER PAD TSIL 1.0X0.8           | 3    |        |                                     |      |
| 3850   | TO-220 PLASTIC TRANSISTOR INSULATOR  | 3    |        |                                     |      |
| 4597   | 22AWG STRAN TC WIR JMP               | 2    |        |                                     |      |
| 4599   | 22AWG SOLID SC WIR T&R JMP           | 55   |        |                                     |      |
| 2037   | 1/4W 10R FUSIBLE T&R RES             | 2    |        |                                     |      |
| 4896   | 1/4W 15R 5% T&R RES                  | 1    |        |                                     |      |

# NODE VOLTAGE TEST CONDITIONS

LINE VOLTAGE: 120Vac  
 OUTPUT LOAD: 8 OHMS  
 NO INPUT SIGNAL APPLIED

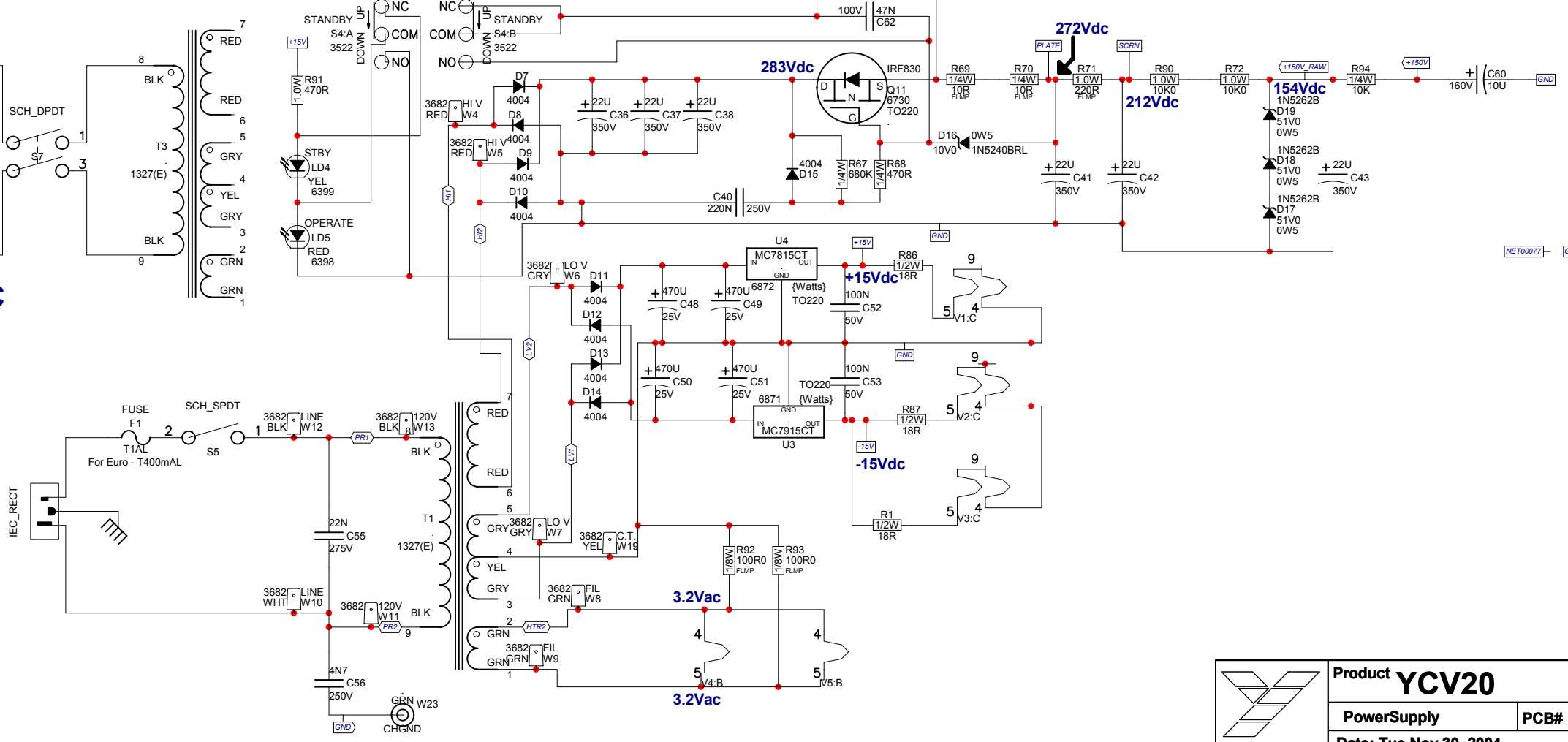
| M647 POT LIST    |                 |       |       |          |
|------------------|-----------------|-------|-------|----------|
| MODEL(S):- YCV20 |                 |       |       |          |
| REF              | FUNCTION        | PART# | KNOB  | {NEW}    |
| P1               | TREBLE          | #4424 | #8430 | MAR 2003 |
| P2               | BASS            | #4425 | #8430 | " "      |
| P3               | MID             | #4423 | #8430 | " "      |
| P4               | GAIN 2 (CLN)    | #4425 | #8430 | " "      |
| P5               | GAIN 1 (OD DRV) | #4425 | #8430 | " "      |
| P6               | VOL 2 (CLN)     | #4425 | #8430 | " "      |
| P7               | VOL (OD)        | #4425 | #8430 | " "      |
| P8               | REVERB          | #4424 | #8430 | " "      |
| R                | F               | P     | K     | N        |
| R                | F               | P     | K     | N        |
| R                | F               | P     | K     | N        |

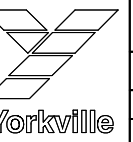
| M647             |               |        |                                                                                                                              |
|------------------|---------------|--------|------------------------------------------------------------------------------------------------------------------------------|
| MODEL(S):- YCV20 |               |        |                                                                                                                              |
| #                | DATE          | VER#   | DESCRIPTION OF CHANGE                                                                                                        |
| 1                | FEB, 2003     | V1.00  | FIRST PRODUCTION                                                                                                             |
| 2                | 19 Feb, 2003  | V1.03  | Force updated r70,r72 to fix hole size.                                                                                      |
| 3                | 21 Feb, 2003  | V2.00  | Fixed hole size on tube socket - added clinch hole                                                                           |
| 4                |               |        | Updated targets                                                                                                              |
| 5                | Apr 07, 2003  | V2.10  | PC#6597 R31 2k2 1/2W to 1K 1W. Add C64,C65,R95,R96, D2                                                                       |
| 6                |               |        | Fix shorts in Ver 3.00                                                                                                       |
| 8                | May, 12, 2003 | 4.00   | Added headphones, DI out, ext. spkr jack and spkr defeat                                                                     |
| 9                | 16-DEC-2003   | 5.00   | Connected jacks -ve to speaker -ve, reduced headphone gain                                                                   |
| 10               | 5-JAN-2004    | 5.00P1 | Shifted footswitch jack by 200mil                                                                                            |
| 11               | 06-OCT-2004   | 5.10   | PC#6716 CHANGE R66&R63 TO 220K (4841), R58 TO 4R7 (4866), R54&R53 TO 4K7 (4827), C35 TO 150N (5229), R88 TO 100K (4838) [GT] |
| 12               | D             | V      |                                                                                                                              |
| 13               | D             | V      |                                                                                                                              |

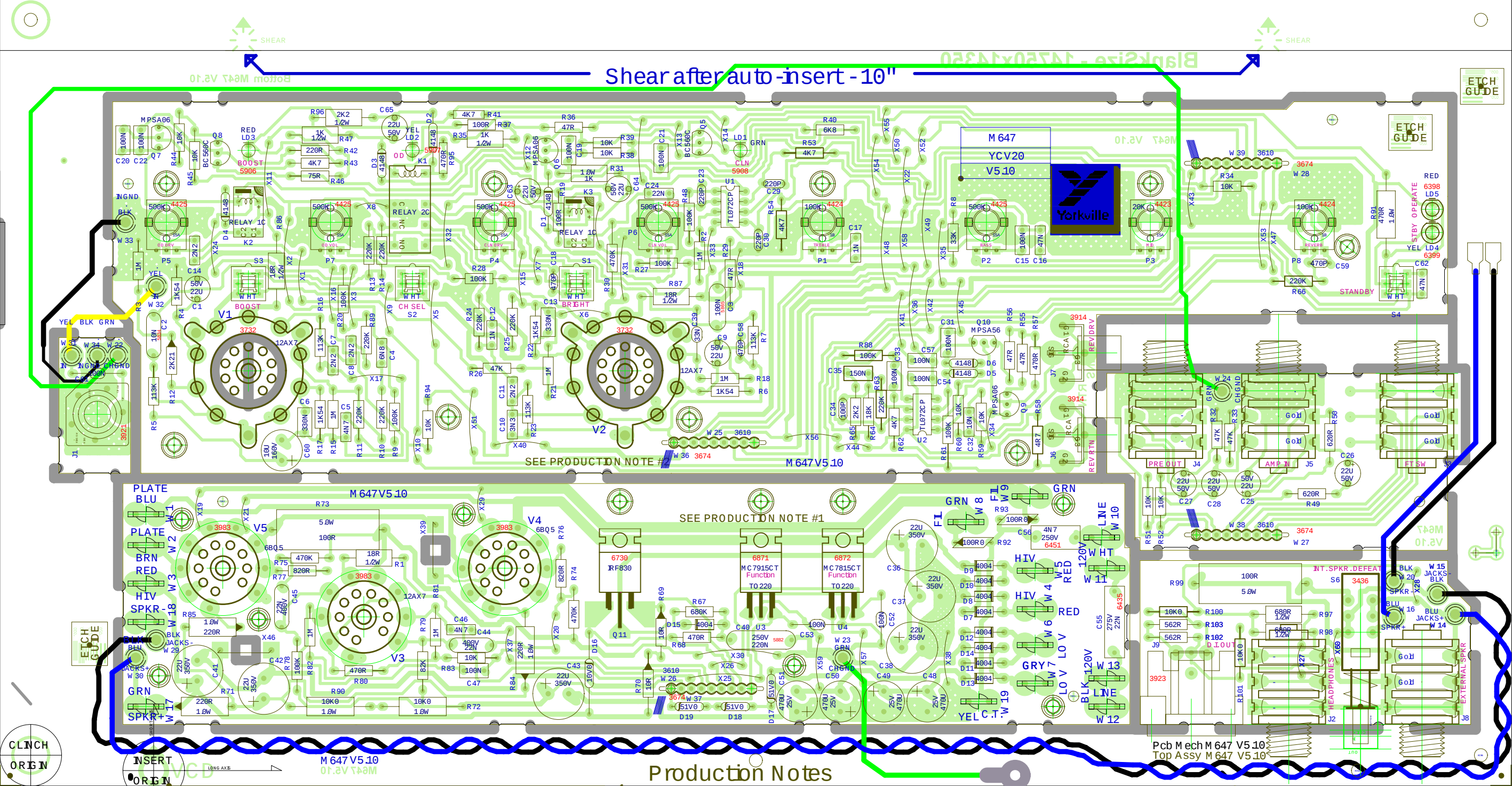


CE AC

Ribbon cables

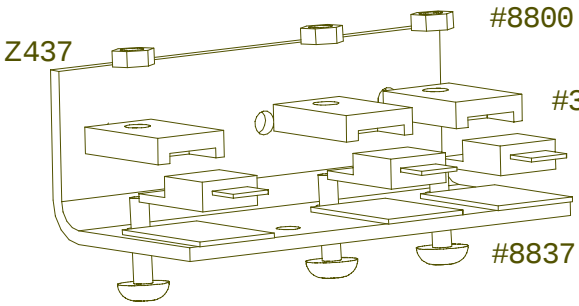


|                                                                                       |                                |           |              |
|---------------------------------------------------------------------------------------|--------------------------------|-----------|--------------|
|  | Product <b>YCV20</b>           |           |              |
|                                                                                       | PowerSupply                    | PCB# M647 | Sheet 2 of 3 |
|                                                                                       | Date: Tue Nov 30, 2004         |           | Rev: 5.10    |
|                                                                                       | Filename: m647v5.10sch.sch2002 |           |              |



Production Notes

1 MOUNTING DETAILS FOR Q11, U3 AND U4



2 LEADS FOR W 25 RIBBON CABLE MUST BE BENT AWAY FROM PCB HOLE AND TRIMMED



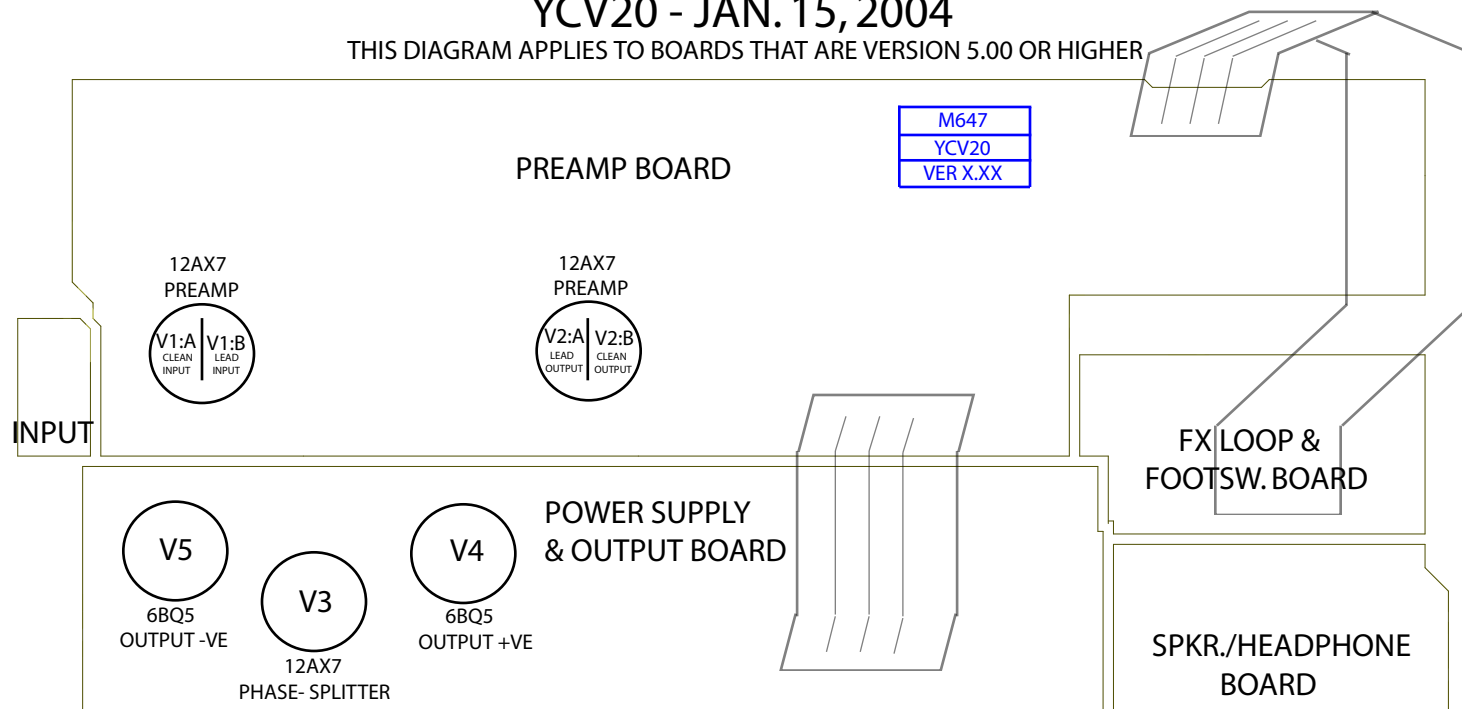
| M 647      |               |       |                                                                                                                              |
|------------|---------------|-------|------------------------------------------------------------------------------------------------------------------------------|
| MODEL(S):- |               | YCV20 |                                                                                                                              |
| #          | DATE          | VER#  | DESCRIPTION OF CHANGE                                                                                                        |
| 1          | FEB, 2003     | V1.00 | FIRST PRODUCTION                                                                                                             |
| 2          | 19 Feb, 2003  | V1.03 | Force updated r70,r72 to fix hole size.                                                                                      |
| 3          | 21 Feb, 2003  | V2.00 | Fixed hole size on tube socket - added clinch hole                                                                           |
| 4          |               |       | Updated targets                                                                                                              |
| 5          | Apr 07, 2003  | V3.00 | PC#6597 R31 2k2 1/2W to 1K 1W .Add C64,C65,R95,R96, D2                                                                       |
| 6          |               |       |                                                                                                                              |
| 7          | May, 12, 2003 | 4.00  | Fix shorts in Ver 3.00                                                                                                       |
| 8          | 16-DEC-2003   | 5.00  | Added headphones, DI Out, ext. spkr jack and spkr defeat                                                                     |
| 9          | 16-DEC-2003   | 5.00  | Connected jacks -ve to speaker -ve, reduced headphone gain                                                                   |
| 10         | 5-JAN-2004    | 5.00  | Shifted footswitch jack by 200m il                                                                                           |
| 11         | 06-OCT-2004   | 5.10  | PC#6716 CHANGE R66&R63 TO 220K (4841), R58 TO 4R7 (4866), R54&R53 TO 4K7 (4827), C35 TO 150N (5229), R88 TO 100K (4838) [GT] |
| 12         |               | V     |                                                                                                                              |
| 13         |               | V     |                                                                                                                              |

| M 647 PENDING CHANGES |     |                |
|-----------------------|-----|----------------|
| MODEL(S):-            |     | YCV20          |
| #                     | PC# | PENDING CHANGE |
| 1                     | PC  | X              |
| 2                     | PC  | X              |
| 3                     | PC  | X              |

| M 647 POT LIST |                 |       |       |          |
|----------------|-----------------|-------|-------|----------|
| MODEL(S):-     |                 | YCV20 |       |          |
| REF            | FUNCTION        | PART# | KNOB  | {NEW }   |
| P1             | TREBLE          | #4424 | #8430 | MAR 2003 |
| P2             | BASS            | #4425 | #8430 | " "      |
| P3             | MID             | #4423 | #8430 | " "      |
| P4             | GAIN 2 (CLN)    | #4425 | #8430 | " "      |
| P5             | GAIN 1 (OD DRV) | #4425 | #8430 | " "      |
| P6             | VOL 2 (CLN)     | #4425 | #8430 | " "      |
| P7             | VOL (OD)        | #4425 | #8430 | " "      |
| P8             | REVERB          | #4424 | #8430 | " "      |
| R              | F               | P     | K     | N        |
| R              | F               | P     | K     | N        |
| R              | F               | P     | K     | N        |
| R              | F               | P     | K     | N        |

## YCV20 - JAN. 15, 2004

THIS DIAGRAM APPLIES TO BOARDS THAT ARE VERSION 5.00 OR HIGHER



\*ALL BOARDS SHOWN FROM COMPONENT SIDE