

March 8th, 1972

Conversion of old YBA-1 with 5AR4 rectifier and ^{7027A}~~7027A~~ output tubes to solid state rectifier and 6CA7 output tubes:

The old circuit (1) fits on old circuit (2) at points A B C D and E to convert the rectifier. It may be possible to fit some of the PH204's right on the old 5AR4 socket as terminal points, or, solder in a separate terminal lug strip.

The 6CA7 and the 7027A have the same tube basing except that you will have to connect G3 pin 1 to pin 8 externally for the 6CA7. We suggest also a 1.5K $\frac{1}{2}$ W resistor in series with the G1 on pin 5 of the 6CA7 to prevent oscillation. We suggest you reduce R30 from 56K to 47K to make the no signal grid bias voltage - 38V.

Except for the transformer voltages, circuit 3 shows the amplifier converted to 6CA7's. The addition of the shock mount rubber feet will insure longer tube life.

We have included the latest schematic for reference but we do not recommend that you delete the choke in your conversion.

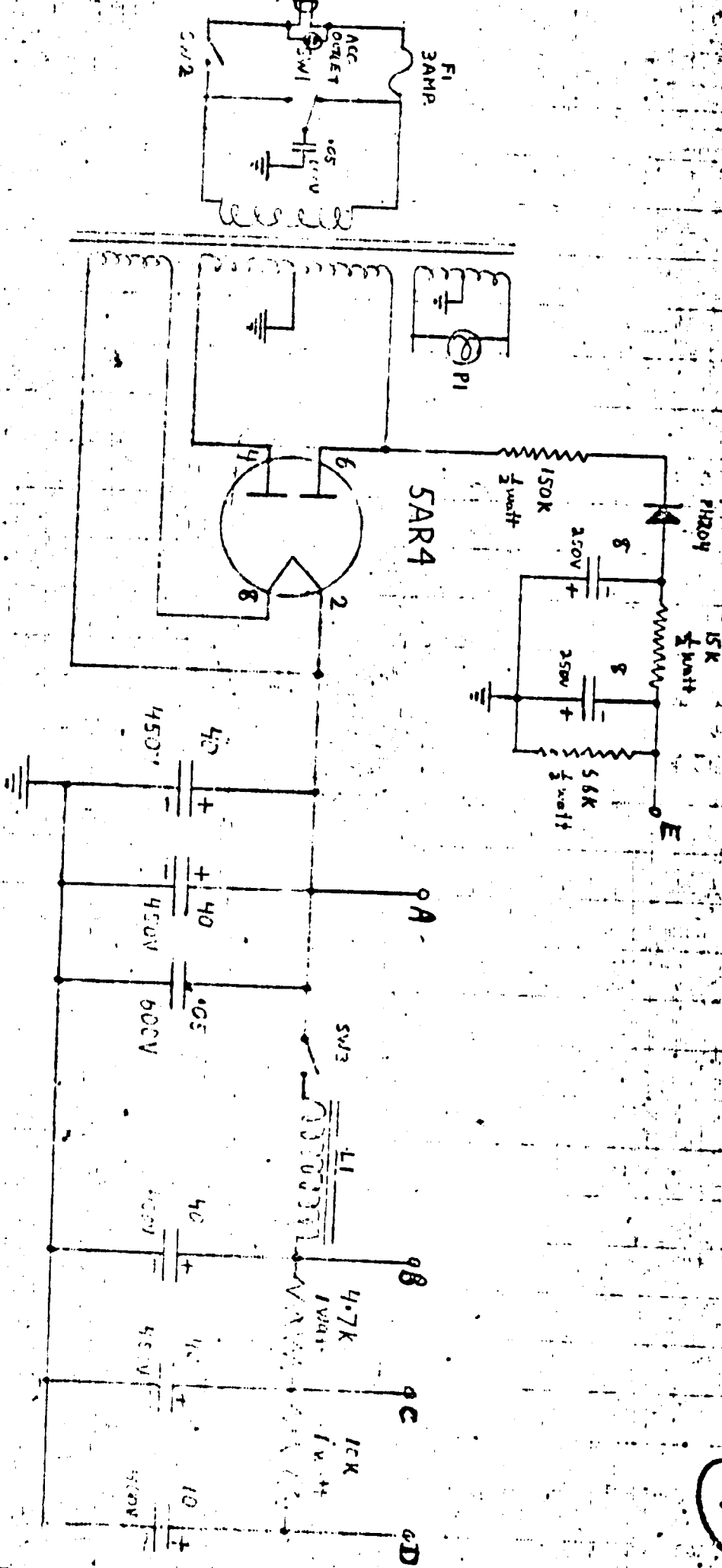
Yours truly,
YORKVILLE SOUND LIMITED

P. A. Hallam, P. Eng

PAH:vc

(9)

1.



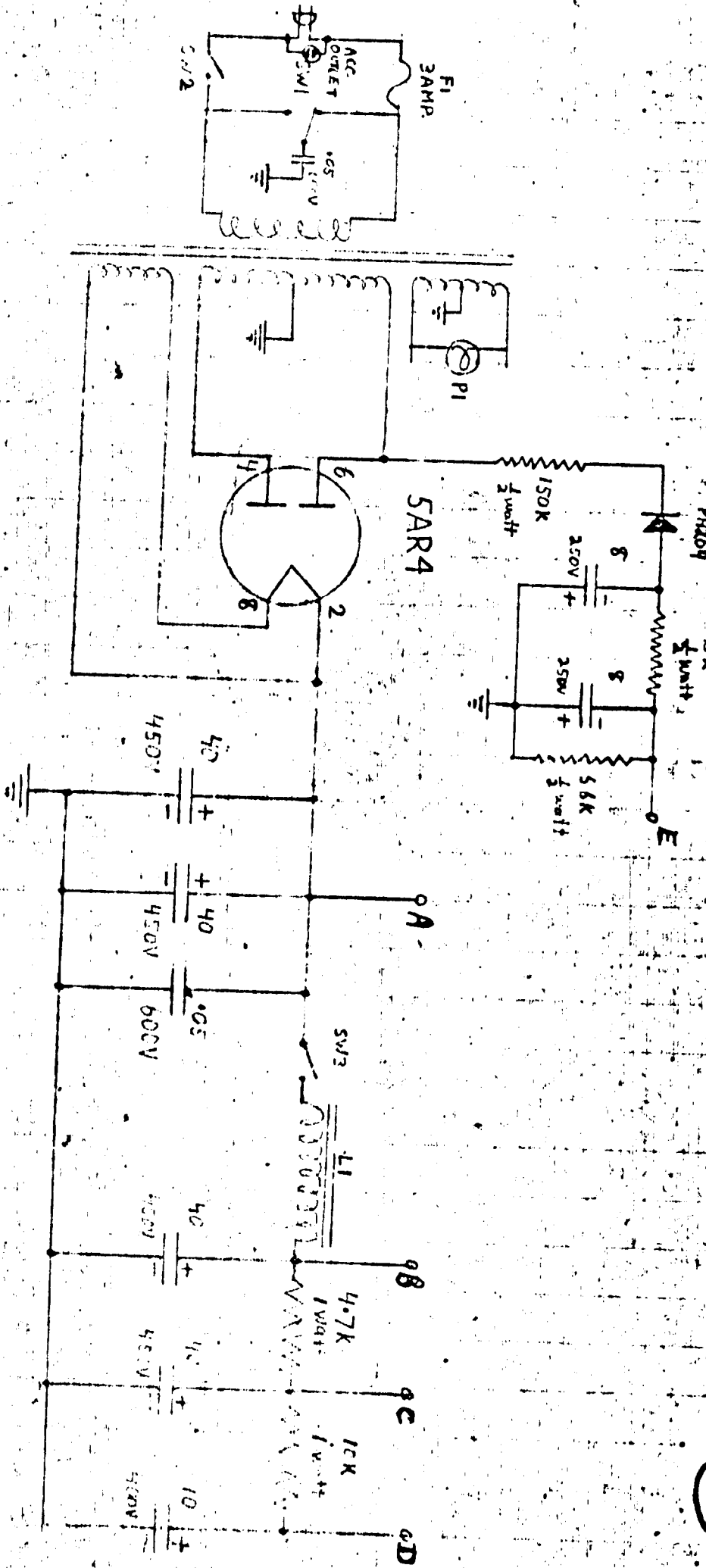
YBA-1 Power Supply Using Tube Rectifier

April - 1966

YORKVILLE SOUND LTD
TORONTO CAN.

YORKVILLE SOUND LTD
TORONTO CAN.

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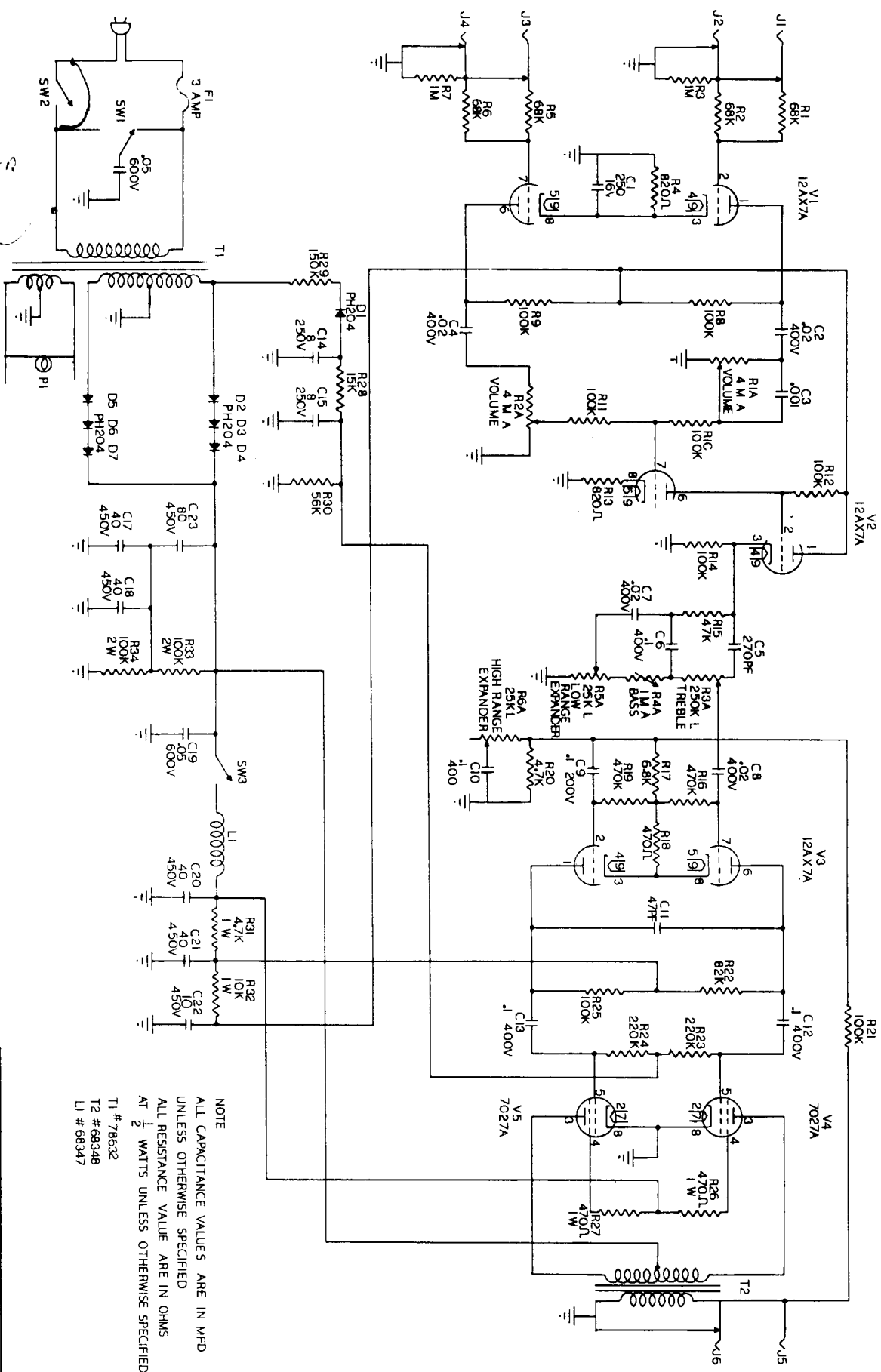
YBA-1 Power Supply Using Tube Rectifier

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YORKVILLE SOUND LTD
TORONTO CAN:

OLD MODEL

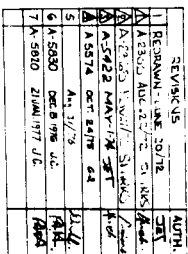
ORIGINAL VERSION



NOTE
ALL CAPACITANCE VALUES ARE IN MFD
UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE VALUE ARE IN OHMS
AT 1/2 WATTS UNLESS OTHERWISE SPECIFIED
T1 # 78632
T2 # 68348
L1 # 68347

YORKVILLE SOUND LTD			
BASS MASTER		YBA-1	
DESIGN BY		OCT 21 1966	
PETE TRANOR		DRAWN BY	
		GRANT LAUGHLIN	

BRASS
SILVER
W.H.



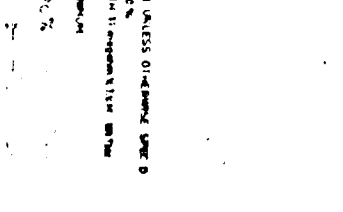
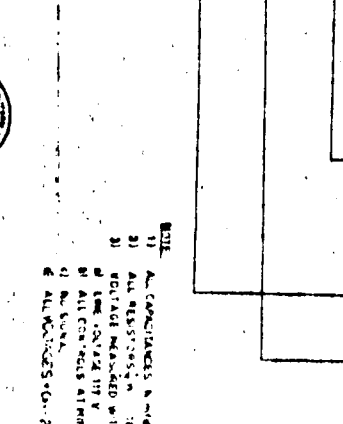
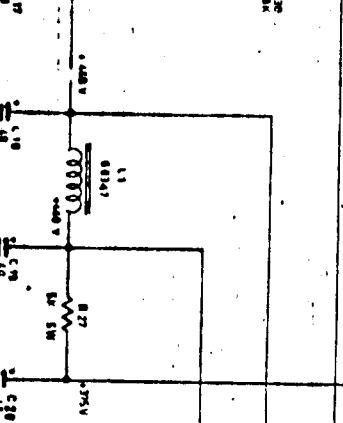
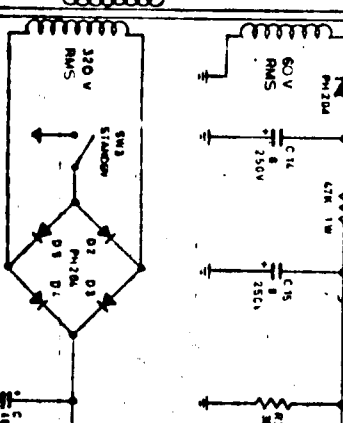
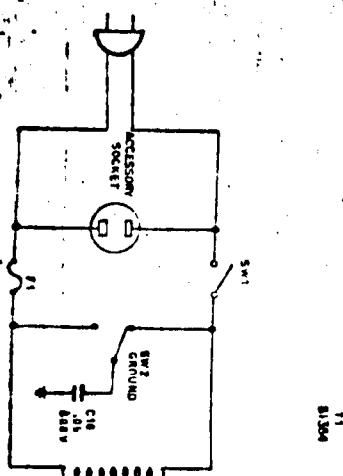
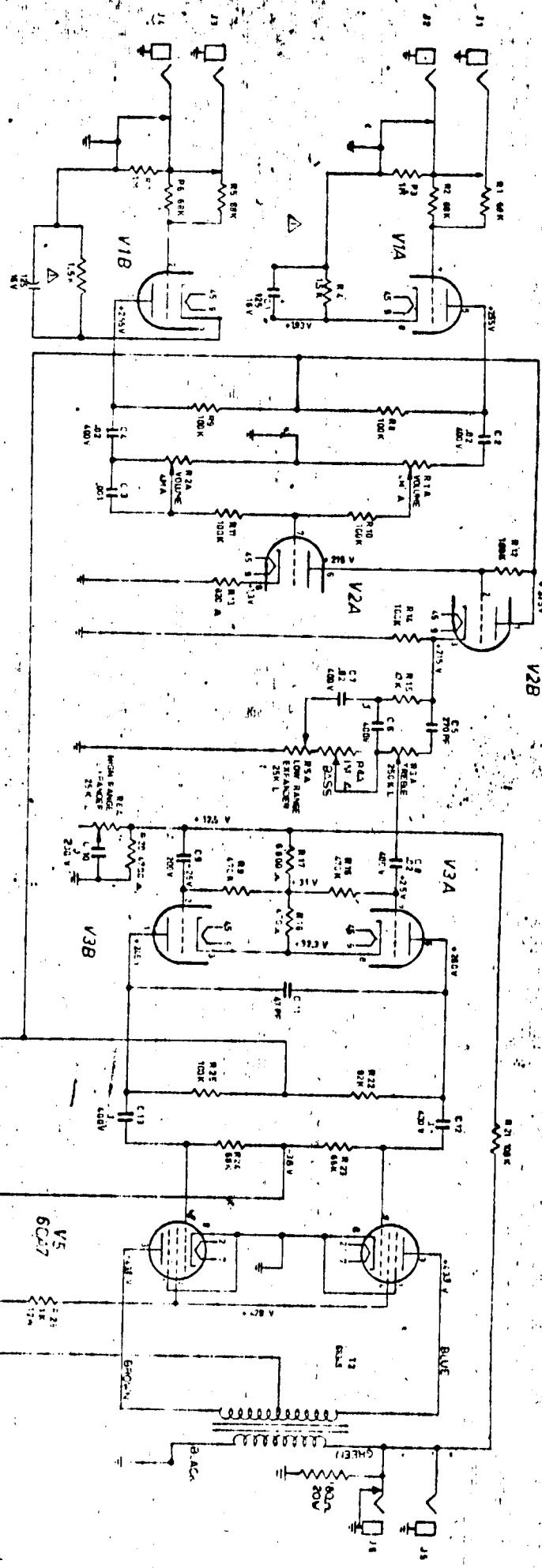
V1
12AX7A

V2
12AX7A

V3
12AX7A

V4
6CA7

3



- NOTE:
- 1) ALL CAPACITANCES IN OHMS UNLESS OTHERWISE SPEC'D
 - 2) ALL RESISTANCES IN OHMS UNLESS OTHERWISE SPEC'D
 - 3) RESISTANCE IN OHMS UNLESS OTHERWISE SPEC'D
 - 4) ALL CAPACITANCES IN OHMS UNLESS OTHERWISE SPEC'D
 - 5) ALL RESISTANCES IN OHMS UNLESS OTHERWISE SPEC'D

YORKVILLE SOUND LTD.

TRAFFORD, ENGLAND

DATE: 1/1/67

BY: J. H. HARRIS

REVISION: 1

DATE: 1/1/67

BY: J. H. HARRIS

REVISION: 1

DATE: 1/1/67

BY: J. H. HARRIS

REVISION: 1

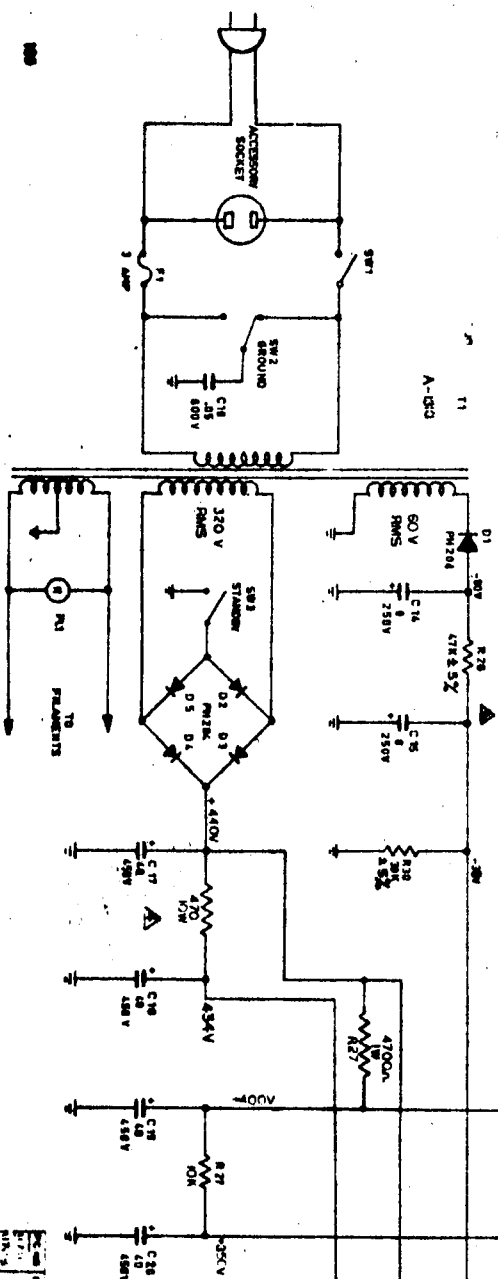
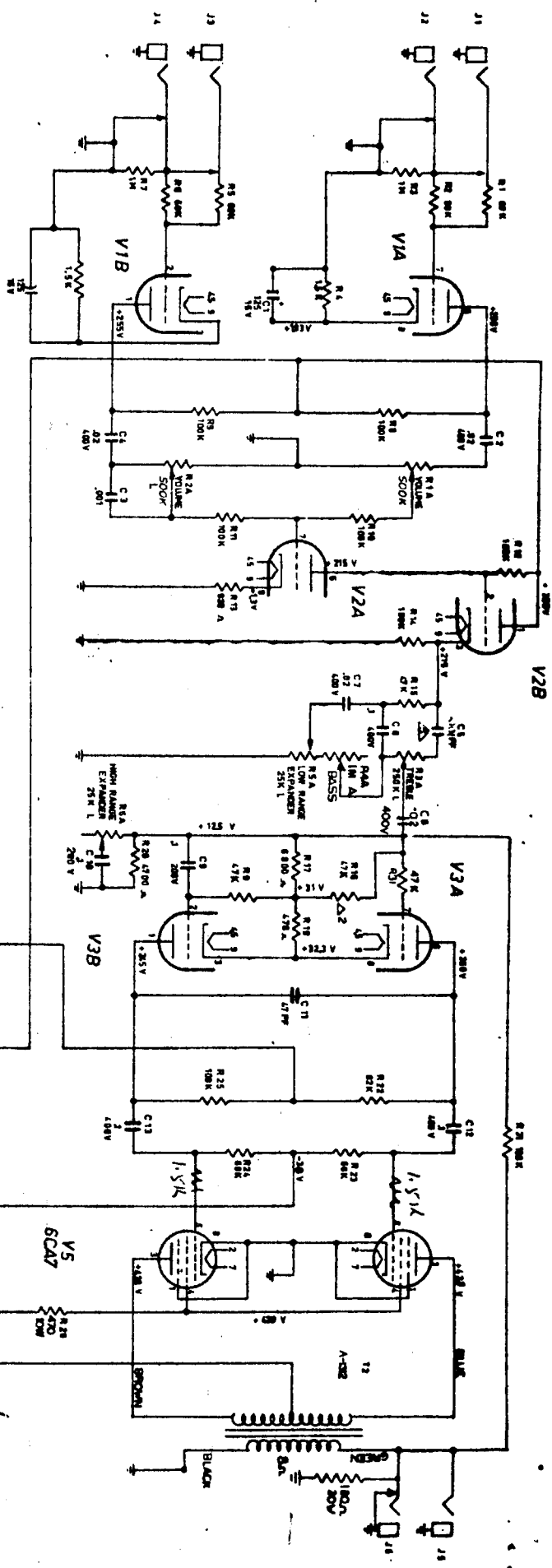
V1
12AX7A

V2
12AX7A

V3
12AX7A

V4
6CA7

4



- NOTE:
- 1) ALL CAPACITANCES IN MFD UNLESS OTHERWISE SPECIFIED
 - 2) ALL RESISTANCES IN OHMS UNLESS OTHERWISE SPECIFIED
 - 3) VOLTAGE MEASURED WITH 11 MEGOHM V.T.M. WITH
 - 4) LINE VOLTAGE 117 V
 - 5) ALL COMPONENTS AT MINIMUM
 - 6) NO SIGNAL
 - 7) ALL INDICATES - C-20 2%



YORKVILLE SOUND LTD.

YBA-1

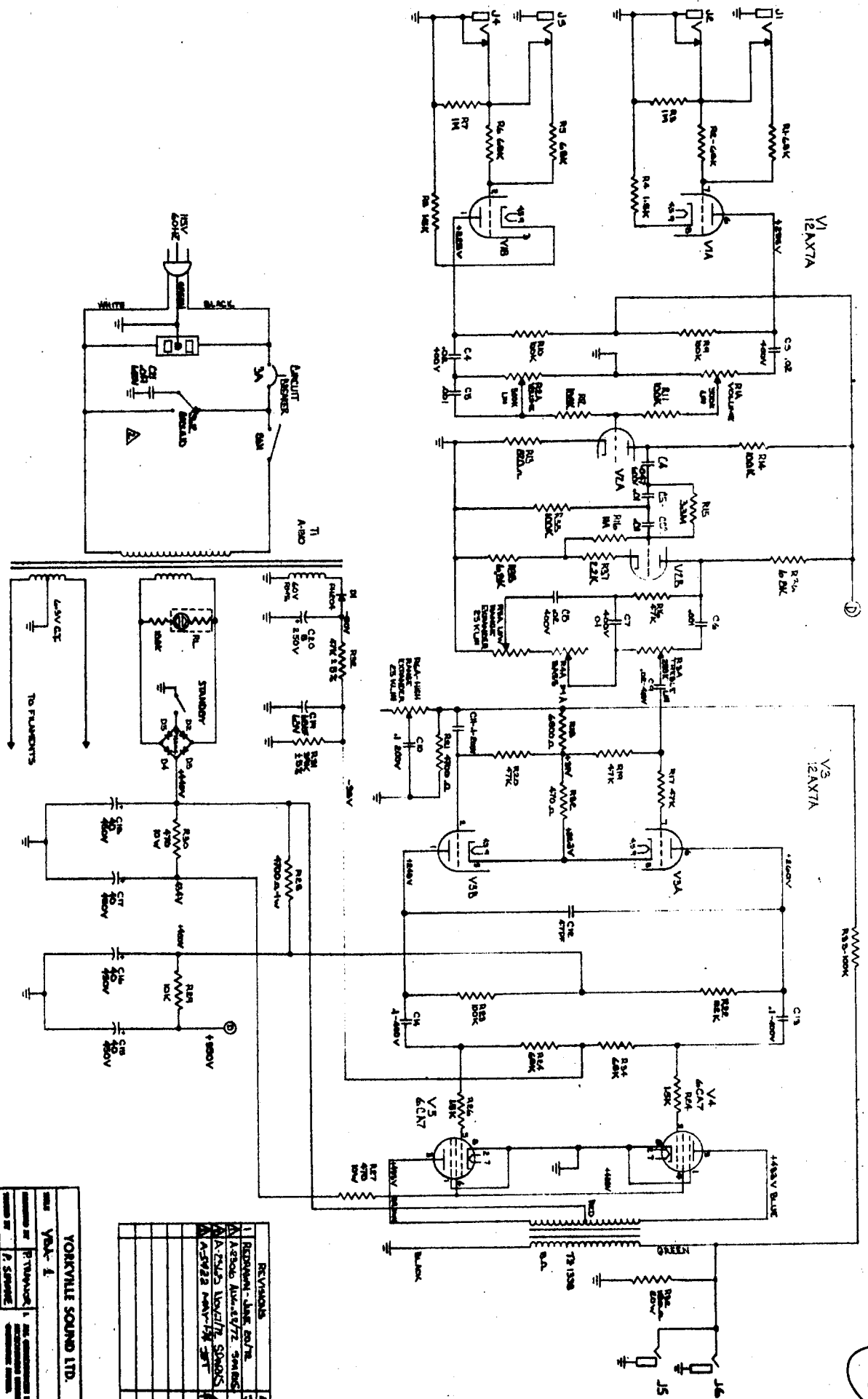
BRASS MASTER

latest
Version



YORKVILLE SOUND LTD.	
MODEL	YB-1 BASS MASTER
DESIGNED BY	P. THORNTON
BUILT BY	YORKVILLE LTD.
WARRANTY BY	5 YEARS
REGISTERED TRADE MARK	
1. ALL COMPONENTS ARE INCORPORATED WITHIN OVERCASTING HOUSING 2. ALL COMPONENTS ARE IN COMPLETELY SEALED ENCLOSURE 3. ALL VIBRATING MEMBRANES ARE MADE OF POLYURETHANE 4. ALL SPEAKERS ARE OF THE HORN TYPE 5. ALL SPEAKERS ARE OF THE HORN TYPE	

5



LAST RESISTOR-R39 LAST CAPACITOR-C22

YORKVILLE SOUND LTD.	
DATE	YSL-1
DESIGNED BY	R. T. YOUNG
CHECKED BY	J. J. YOUNG
REVISIONS	
1. REVISION - JUNE 20/72	
2. A-5000 AUC-45/72 30WBS	
3. A-5000 AUC-45/72 30WBS	
4. A-5000 AUC-45/72 30WBS	
5. A-5000 AUC-45/72 30WBS	
6. A-5000 AUC-45/72 30WBS	
7. A-5000 AUC-45/72 30WBS	
8. A-5000 AUC-45/72 30WBS	
9. A-5000 AUC-45/72 30WBS	
10. A-5000 AUC-45/72 30WBS	