Traynor

YBA-1A

Internal cooling fan.

Bass Master Mark II

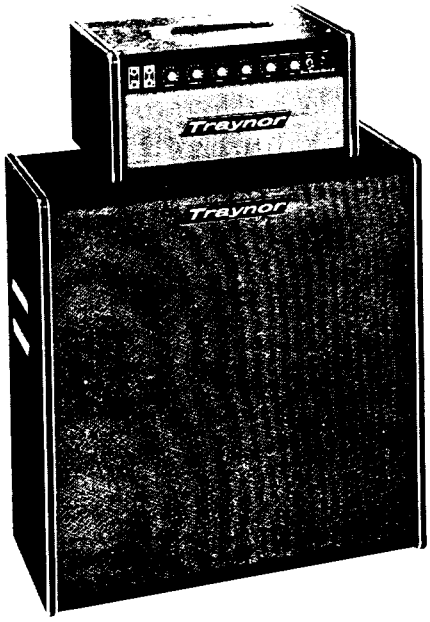
This two channel amplifier is designed for Bass or Guitar where Reverb is not required. While outwardly it appears identical to the regular Bassmaster it has approximately twice the power output. It also features an internal cooling fan assuring constant power output without any loss due to heat buildup. The range expander along with the wide tonal response of the regular Bassmaster has been retained.

Each amplified instrumentalist requires, in addition to the wide difference in tonal response provided in this amplifier, the means to express his individual taste. In order that you may custom design your own sound we offer a wide variety of recommended speaker combinations on the following page.

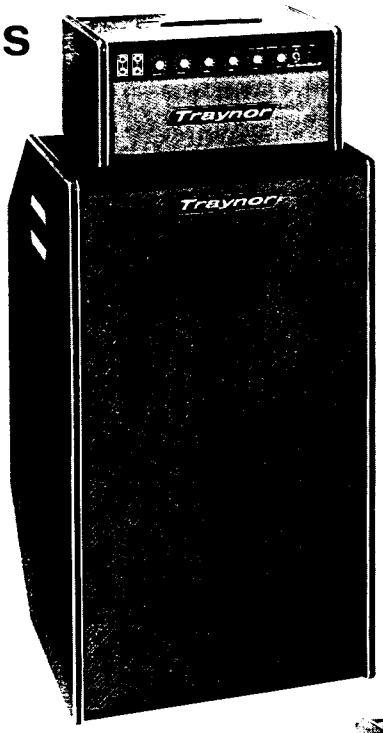
Back control panel

Dimensions: 19" x 10" x 13" — 54 lbs

YBA-1A Cabinet Combinations

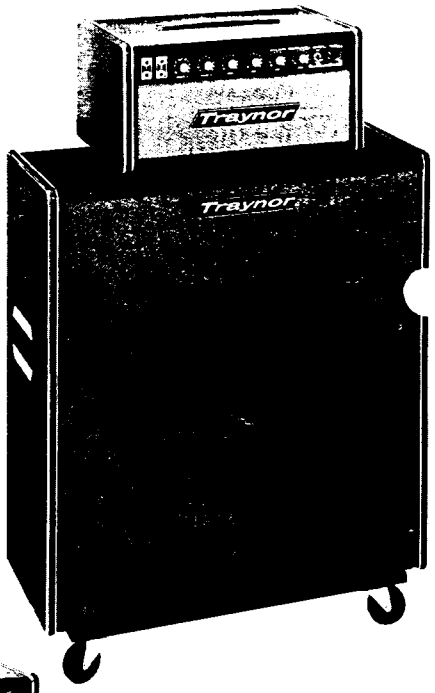


YBA-1A with YGC-412
New . . .
Four 12" speakers producing a sharp, clean undistorted sound with a punch. Extreme trebles.
Full . . .
Rich . . .
Must not be used for bass.
Cabinet dimensions:
29½" x 29½" x 13¼"
— 100 lbs.

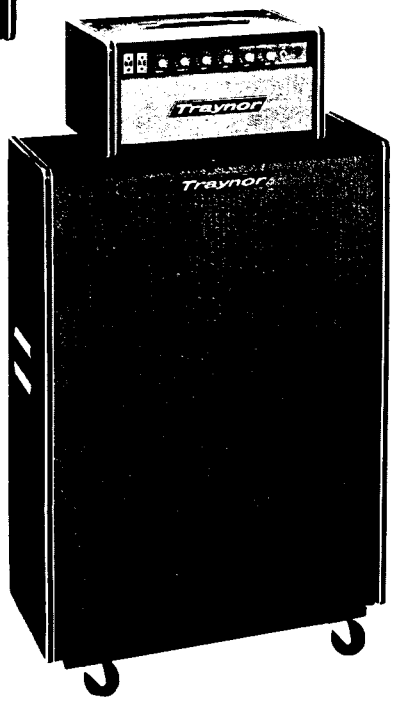


YBA-1A with YB-18A
New . . .
Single 18" speaker in a folded horn enclosure. For the bass player who wants a solid booming bass sound.
Cabinet dimensions:
23¾" x 40¾" x 25¾"
— 110 lbs.

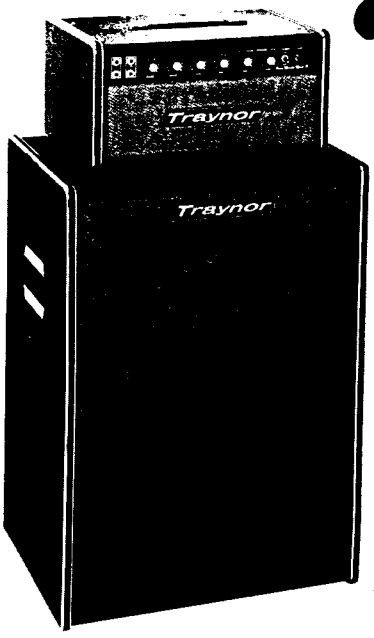
YBA-1A with YC-610
Six 10" speakers providing clean, undistorted sound with a punch. For guitar or the modern progressive bass player who demands punchy bass tones that carry . . .
Cabinet dimensions:
25" x 37¾" x 13" — 90 lbs.



YBA-1A with YN-412
Four 12" extremely free moving "Norelco" speakers with a whizzer cone for the ultimate in high's while retaining deep richness in body. Must not be be used for bass.
Cabinet dimensions:
30¼" x 32¾" x 13" — 107 lbs.



YBA-1A with YC-810
Eight 10" speakers.
Same punchy sound as 6-10" cabinet but even more body and dispersement. Real richness with guitar, great projection for bass.
Cabinet dimensions:
30¼" x 40¾" x 13" — 122 lbs.



YBA-1A with YHC-15
New . . .
Single 15" speaker coupled with a horn and driver assembly. Piercing high's with a hard sound for Lead.
Cabinet dimensions:
23¾" x 32¾" x 18" — 75 lbs.

Canada: 744 Dundas St. E., Toronto, Ont.

Traynor

U.S.: 1051 Clinton St., Buffalo, N.Y. 14240

MARK 11 (YBA 1A) OPERATING INSTRUCTIONS

1. Connect YBA-1A output marked "Speaker" to your speaker cabinet using the speaker cord supplied. The "Extension" jack must only be used to connect an additional speaker cabinet.

   NEVER TURN THE AMPLIFIER ON WITHOUT FIRST CHECKING TO SEE THAT THE SPEAKER IS CONNECTED CORRECTLY. SERIOUS DAMAGE MAY RESULT FROM IMPROPER USE.

2. Plug power cord into wall outlet.

3. Make sure "on/off" switch is on.

4. Leave standby switch off for about one minute while tubes warm up and the Mark 11 is ready to use.

USE OF THE FOUR INPUTS AND CONTROLS

1. The Mark 11 has two channels, each having two inputs.

2. The first channel is a bass channel (although rhythm guitar players often prefer it to the second channel). The lower input is more sensitive than the upper input for extra "drive".

3. The second channel is more powerful and has a clearer sound. Is is also ideal for lead guitar. The lower input again is more sensitive than the upper input.

4. The treble and bass controls provide variable boost to the amplifiers' frequency response at the extreme high and low ends, respectively, of the sound spectrum.

5. Added features of the Mark 11 are the high and low range expanders. These controls change the tonal coloring of the amplifier by adding variable boost to two different mid-range areas of the sound spectrum.

6. To adjust the four tone controls, set them all to their mid position. Connect your instrument to the desired channel, and adjust the volume control for that channel (the other volume control should be left at zero).

7. Starting from left to right, while playing, adjust the treble, bass, low range expander, and high range expander. Experimentation will find the most pleasing setting. It should be remembered that the settings of the tone controls will affect the output of the amplifier. Final volume level should be set afterwards.

8. Each channel has its own volume control.

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8. Each channel has its own volume control.

9. When using the Mark II, you may have noticed that while playing through one channel, the other channel's volume control affects the sound of the channel that you are using. This is a design feature and many interesting results may be obtained by experimenting with various settings.

10. The volume control of the channel being used should be turned up until a small amount of distortion is heard in the speakers and then turned slightly back. This is the optimum volume setting and the best projection will be obtained at this setting. Turning the amplifier up louder will result in increased distortion for "raunchy" guitar solos.

11. Between sets, leave the amplifier on "Standby". This keeps the tubes warmed up and allows you to use the amp instantly by simply turning the standby on.

Although the Mark II was initially designated a bass amplifier, it has also found great favour among lead guitarists due to its exceptional power and tone characteristics. Therefore, the following list of suggested speakers covers both instruments - "guitar" cabinets should not be used for bass.

Guitar	Bass (*or guitar)
YF-12 (4x12")	*YC-610 (6x10")
YCV-212 (2x12" Vega)	*YC-810 (8x10")
Y-212 (2x12")	YB-18 (1x18")
	YCV-18 (1x18" Vega)

YPA-1A SPECIFICATIONS

Power ratings: 90 Watts R.M.S. Clean (less than 5% T.H.D.)
150 Watts R.M.S. Max (full sustained power)

Output Impedance: 8 ohms with main output in use.
4 ohms with both outputs in use.

(see attached instructions for control functions)

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YC-610 SPECIFICATIONS

Total power handling:	150 Watts (max.) R.M.S.
Cabinet construction:	3/4 inch Douglas fir plywood with internal bracing and butted joints.

Speakers (Traynor Model #YST-10, 10 inch dia.)

Power handling:	25 W.R.M.S. (+)
Magnet type:	anisotropic ferrite
Magnet weight:	20 oz.
Field strength:	10,000 gauss (in the gap)
Voice Coil form:	1½ inch dia. Nomax aluminium
Coil wire:	100% copper
Coil insulation:	Hi-Temp (up to 205 degrees C.)
Bonding:	epoxy
Cone:	paper with rubberized rolls.

YORKVILLE SOUND LTD.

Instructions for Fan Conversion Kit

This kit is used on TRAYNOR amplifiers, models: YBA-1A, YBA-3 and YBA-3A, made prior to 1971 to replace the original, circular "Skipper" fan.

PARTS LIST	QTY	DESCRIPTION
	2	Fan Brackets cost .09
	1	Perforated Screen cost .67 ea Fnc dust .166 ea
	1	Male Plug, Cinch-Jones # P-302 CCT
	1	Female Socket, Cinch-Jones # S-302 CCT
	1	Fan Motor, YSL
	1	Fan Blade, YSL # 3816
	4	#8 x 5/8" Woodscrews #8779
	4	#6 x ½" Woodscrews #8831
	4	#6 - 32 x 3/4" Machine Screws #8826
	4	#6 - 32 Hex Nuts #8800

cost 4.15 + 8 screws * Inc dust 8.50

CONNECTOR ASSEMBLY

1. Trim the wire leads on the fan motor to a length of 6 inches. Carefully remove the small locking pin from the male plug. Slide the cap from the plug up the wires, and then solder the wires to the plug. Bring the cap down onto the plug, and carefully drive the locking pin into the plug as far as possible.

2. On the chassis, cut through the plastic cable clamp nearest the fan to free the fan supply cord. Trim the cord to a length of 6 inches measuring from the second cable clamp. Install the female socket in the same manner as the plug.

FAN INSTALLATION (Refer to attached drawing)

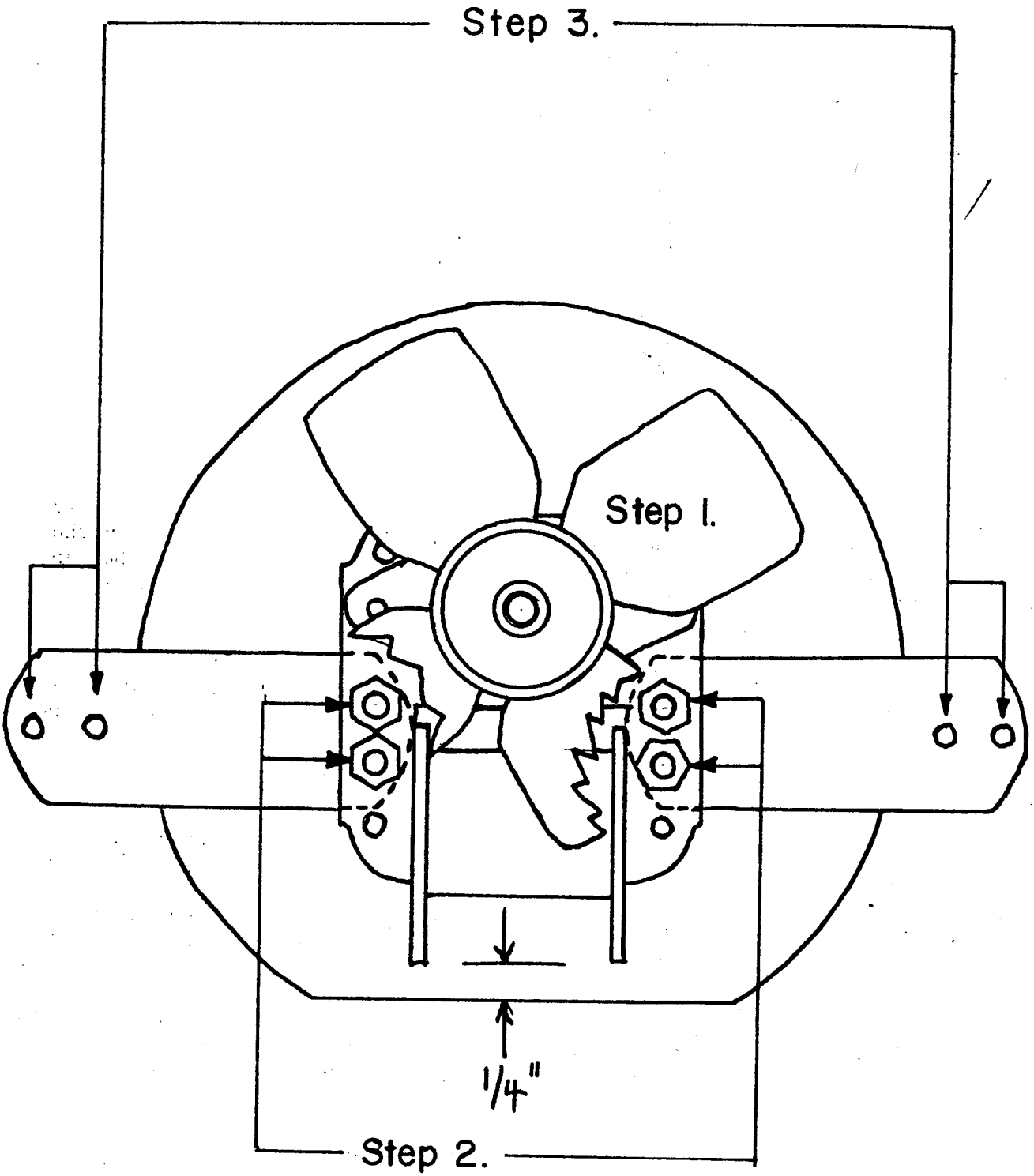
1. Push the fan blade onto the motor shaft with the longer part of the hub facing away from the motor. Ensure that the fan blades can rotate freely.

2. Attach the fan brackets to the fan motor using the #6-32 machine screws and nuts supplied. These brackets must be on the side of the motor away from the fan blades.

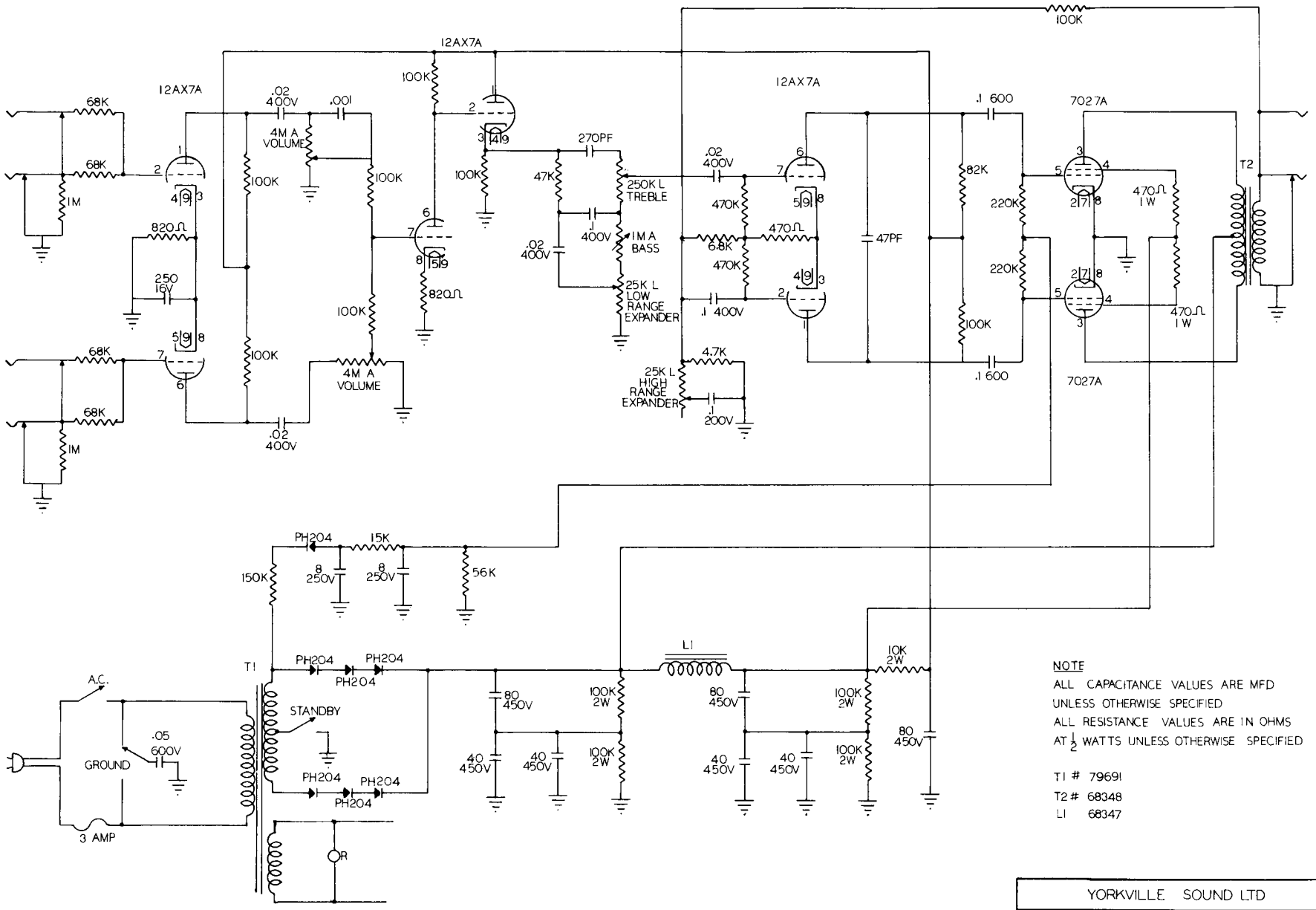
3. Stand the cabinet on the fan end and, centering the fan and brackets over the cutout, fasten the fan assembly to the cabinet with the four larger woodscrews. NOTE:- The fan motor should clear the bottom of the cabinet by at least ¼ inch.

4. Flip the cabinet over and attach the perforated screen over the cutout so as to completely cover it. Use the remaining 5 smaller woodscrews.

5. Re-install the chassis into the cabinet and connect the fan to the supply cord. Check that the fan wiring is dressed away from the fan blades.



FAN INSTALLATION
(INSIDE of CABINET VIEW)

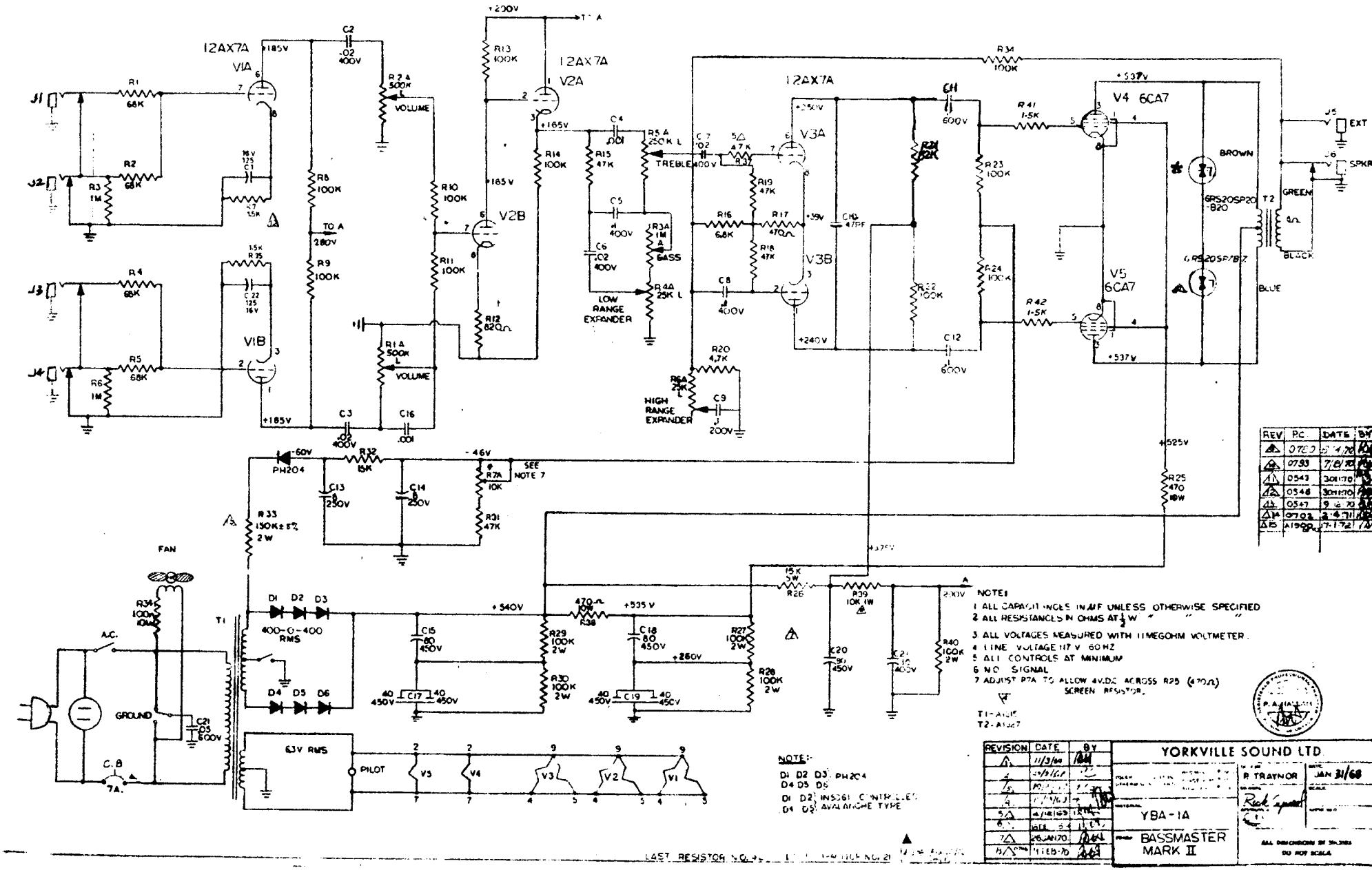


NOTE

ALL CAPACITANCE VALUES ARE MFD
UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE VALUES ARE IN OHMS
AT $\frac{1}{2}$ WATTS UNLESS OTHERWISE SPECIFIED

T1 # 79691
T2 # 68348
L1 68347

YORKVILLE SOUND LTD		
BASS MASTER MARK II YBA-1A		
JAN 26 1966		
DESIGN BY	DESIGN ENGINEER	DRAWN BY
PETE TRAYNOR	DIRK VAN DER SLEEN	GRANT LAUGHLEN



REV	PC	DATE	BY
1	0760	5-4-70	
2	0793	7/8/70	
3	0543	30/11/70	
4	0546	30/11/70	
5	0547	9-2-71	
6	0703	2-4-71	
7	A1908	7-1-72	

NOTE:
1 ALL CAPACITANCES IN μF UNLESS OTHERWISE SPECIFIED
2 ALL RESISTANCES IN OHMS AT ½ W
3 ALL VOLTAGES MEASURED WITH 11 MEGOHM VOLTMETER.
4 LINE VOLTAGE 117 V 60 HZ
5 ALL CONTROLS AT MINIMUM
6 N.O. SIGNAL
7 ADJUST R7A TO ALLOW 4V.D.C. ACROSS R25 (470Ω) SCREEN RESISTOR.

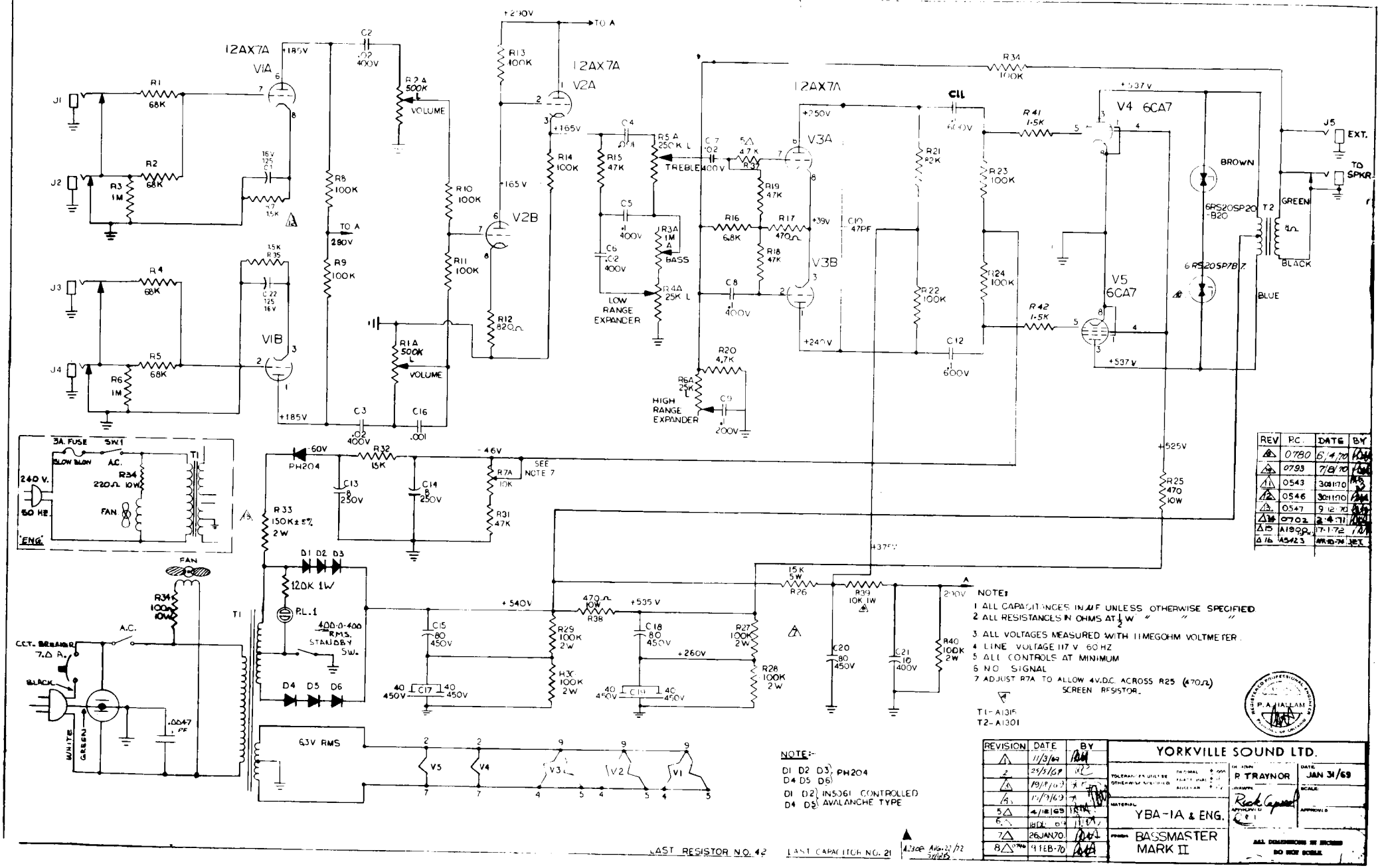
T1-A1907
T2-A1967

NOTE:
D1 D2 D3 PH204
D4 D5 D6
D1 D2 INS361 CONTROLLED AVALANCHE TYPE

REVISION	DATE	BY
1	11/3/69	
2	29/5/69	
3	10/6/69	
4	17/6/69	
5	4/12/1969	
6	6/1/70	
7	26 JAN 70	
8	11 FEB 70	

YORKVILLE SOUND LTD

DRAWN R TRAYNOR
DATE JAN 31/68
SCALE
YBA-1A
BASSMASTER MARK II
ALL DIMENSIONS IN INCHES DO NOT SCALE



NOTE:
1 ALL CAPACITANCES IN μF UNLESS OTHERWISE SPECIFIED
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3 ALL VOLTAGES MEASURED WITH 11 MEGOHM VOLTMETER.
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5 ALL CONTROLS AT MINIMUM
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T1 - A1315
T2 - A1301

NOTE:
D1 D2 D3 } PH204
D4 D5 D6
D1 D2 } IN5061 CONTROLLED AVALANCHE TYPE
D4 D5

REV	P.C.	DATE	BY
4	0780	6/4/70	
3	0793	7/8/70	
1	0543	30/11/70	
2	0546	30/11/70	
1	0547	9/12/70	
14	0702	2/4/71	
15	A1899	17-1-72	
16	A5423	4/10/74	

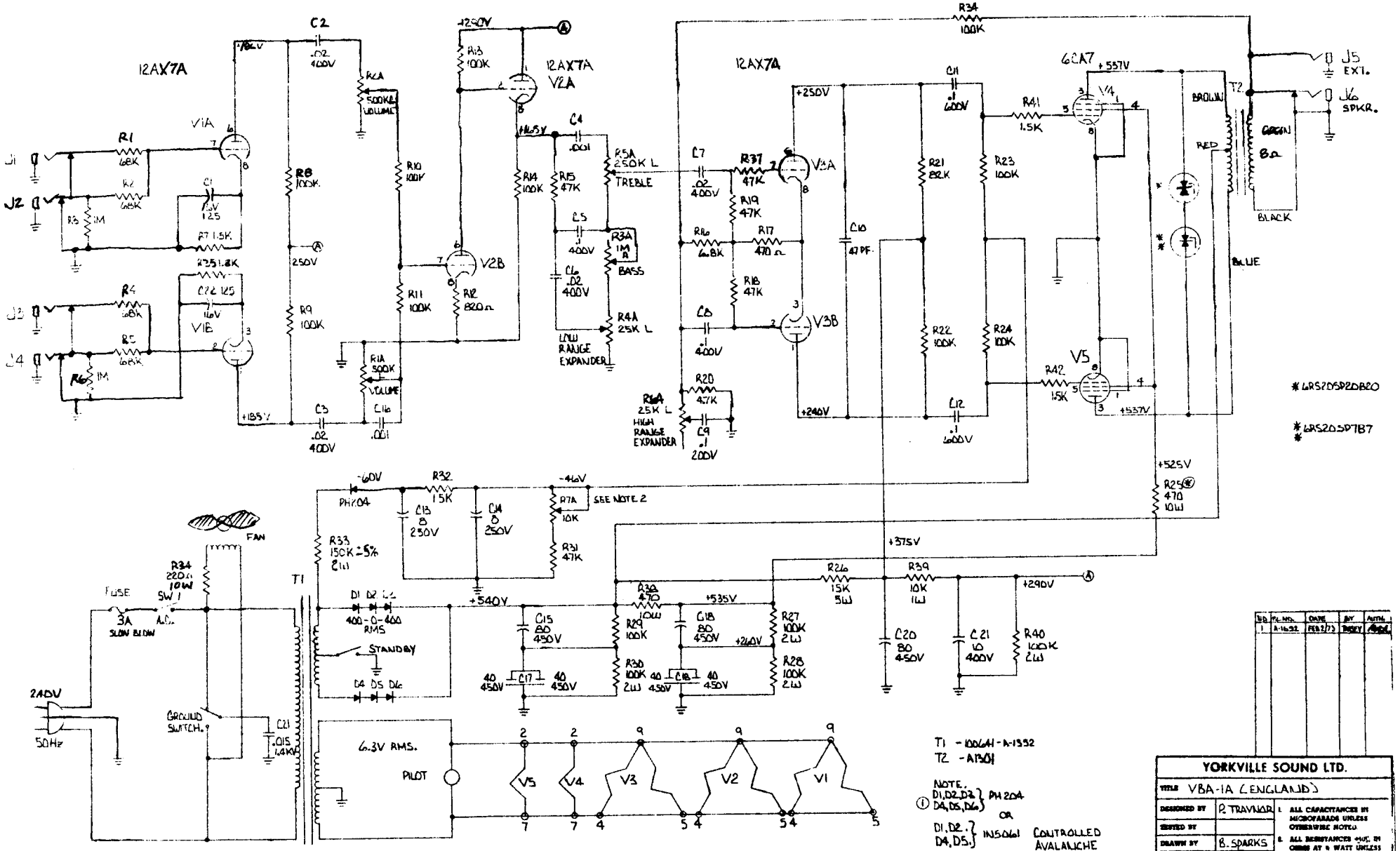
REVISION	DATE	BY
1	11/3/69	
2	25/3/69	
3	19/8/69	
4	11/9/69	
5	4/12/69	
6		
7	26JAN70	
8	9 FEB-70	

YORKVILLE SOUND LTD.

DR. JOHN	R TRAYNOR
DRAWN	
MATERIAL	YBA-1A & ENG.
FINISH	BASSMASTER MARK II
DATE	JAN 31/69
SCALE	
APPROVED	

ALL DIMENSIONS IN INCHES
NO SCALE

LAST RESISTOR NO. 42 LAST CAPACITOR NO. 21



NO.	REVISION	DATE	BY	AUTH.
1	A-1632	FEB 2/72	TWEY	

YORKVILLE SOUND LTD.

TITLE: VBA-1A (ENGLAND)

DESIGNED BY	R. TRAYNOR
EDITED BY	
DRAWN BY	B. SPARKS
APPROVED BY	P. A. HALLAM
	20/2/72

1. ALL CAPACITANCES IN MICROFARADS UNLESS OTHERWISE NOTED
2. ALL RESISTANCES ±10% IN OHMS AT ½ WATT UNLESS OTHERWISE STATED
3. ALL VOLTAGES MEASURED TO GND WITH 11 MEGOHM INPUT VOLTMETER WITH CONTROLS AT MAXIMUM AND 117V AC LINE VOLTAGE.