

## YBA-4 OPERATING INSTRUCTIONS

### GENERAL INSTRUCTIONS

1. Plug power cord into wall outlet.
2. Make sure "on/off" switch is on.
3. Leave standby switch off for about one minute while tubes warm up, and the Amplifier is ready for use.
4. If the power polarity is reversed, the YBA-4 may hum when your instrument is connected. This is easily remedied by flipping the "Ground" switch on the back panel.

### USE OF THE FOUR INPUTS AND CONTROLS

1. The YBA-4 has two channels, each having two inputs.
2. The first channel is a bass channel (although rhythm guitar players may prefer it to the second channel) and is designed for bass. The lower input has a high sensitivity for added 'Punch' and consequently sounds louder.
3. The second channel has more gain and sharper sound. It is most suitable for lead guitar. Here also, the lower input is highly sensitive.
4. Each channel has its own volume control.

NOTE: When using the YBA-4, you may notice 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.

5. 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 maximum 'clean' volume setting and the best projection will be obtained at this setting. Turning the volume up louder will create natural distortion and sustain for 'raunchy' solo work.
6. The treble and bass controls provide wide-range, high and low frequency 'boost'.
7. Added features are the high and low range expanders. These controls supplement the treble and bass by providing two levels of mid-range frequency 'boost'.
8. 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.) Now you can adjust any, or all four controls, up or down to create just the right sound, according to personal tastes.

GENERAL INSTRUCTIONS

1. Plug power cord into a grounded, 110 volt, 60 Hz power outlet. (220 volts, 50 Hz in U.K. and European models)
2. Make sure "on/off" switch is on. If the amp does not come on, press the circuit breaker button. (In export models check fuse - replace with same type)
3. Leave on standby for about one minute while tubes warm up, then connect instrument and switch to "Run".
4. Set Ground switch for minimal noise. "Lift" setting may be utilized to reduce hum caused by ground loop.

USE OF THE CHANNELS AND CONTROLS

1. The YBA-4 has two channels, each with high & normal sensitivity inputs. Select the input which works best for your instrument.
2. The standard channel has a soft tone for jazz and country bass.
3. The bright channel has more gain and a sharper sound. It may be preferred for rock bass and keyboard instruments.
4. Turn up the volume control of the channel being used to the desired level. Leave the other volume control turned off.
5. To adjust the four tone controls, set them all to their mid position then experiment with the following settings.
  - a) For a 'soft' sound, try Bass at "10", Middle at "0", Treble at "3" and Presence at "0".
  - b) For a 'round' sound try Bass at "10", Middle at "5", Treble at "5" and Presence at "5".
  - c) For a 'punchy' sound try Bass at "0", Middle at "10", Treble at "4" and Presence at "10".
6. CHECK TUBES every 6 months to ensure best performance.
7. Leave at least one foot of space behind the amplifier for adequate air circulation to keep the tubes cool.

BACK PANEL

1. "Circuit Breaker": Replaces the usual fuse to protect circuits from A.C. overloads. Should such an overload cause the 'breaker' to open, the amp will shut off completely. Simply press the red "Re-Set" button to re-establish operation.
- 1a Fuse (in 220 volt models): Should always be replaced with 1.5A. Slo-Blo.
2. "A.C. On-Off" Switch: Governs main power supply.
3. Extension Jack: For connecting one of the following suggested speaker cabinets:
  - YS-15P: 1 x 15" Speaker - 100 watts, 8 ohms.
  - YT-15: 2 x 15" Speakers - 100 watts, 16 ohms overall.
  - Minimum load impedance: 8 ohms.

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4. 3 - Position Ground Switch: Top two "Ground" settings are for standard polarity reversal when the amp is connected to an ungrounded outlet. "Lift" setting floats the independent circuit ground from the chassis to reduce ground loop hum (a condition which occurs when an amp is connected to one or more A.C. - powered devices which are not grounded the same way).

GENERAL SPECIFICATIONS

R.M.S. Power: 45 watts \*pre-clipping, 80 watts \*full-clipping.  
Output Impedance: 8 ohms (4ohms minimum load limit)  
Speaker: 15-inch, 100 watts, 8 ohms with 54 oz. ferrite magnet.  
Dimensions & Weight: 27" x 24½" x 11", - 75 lbs.

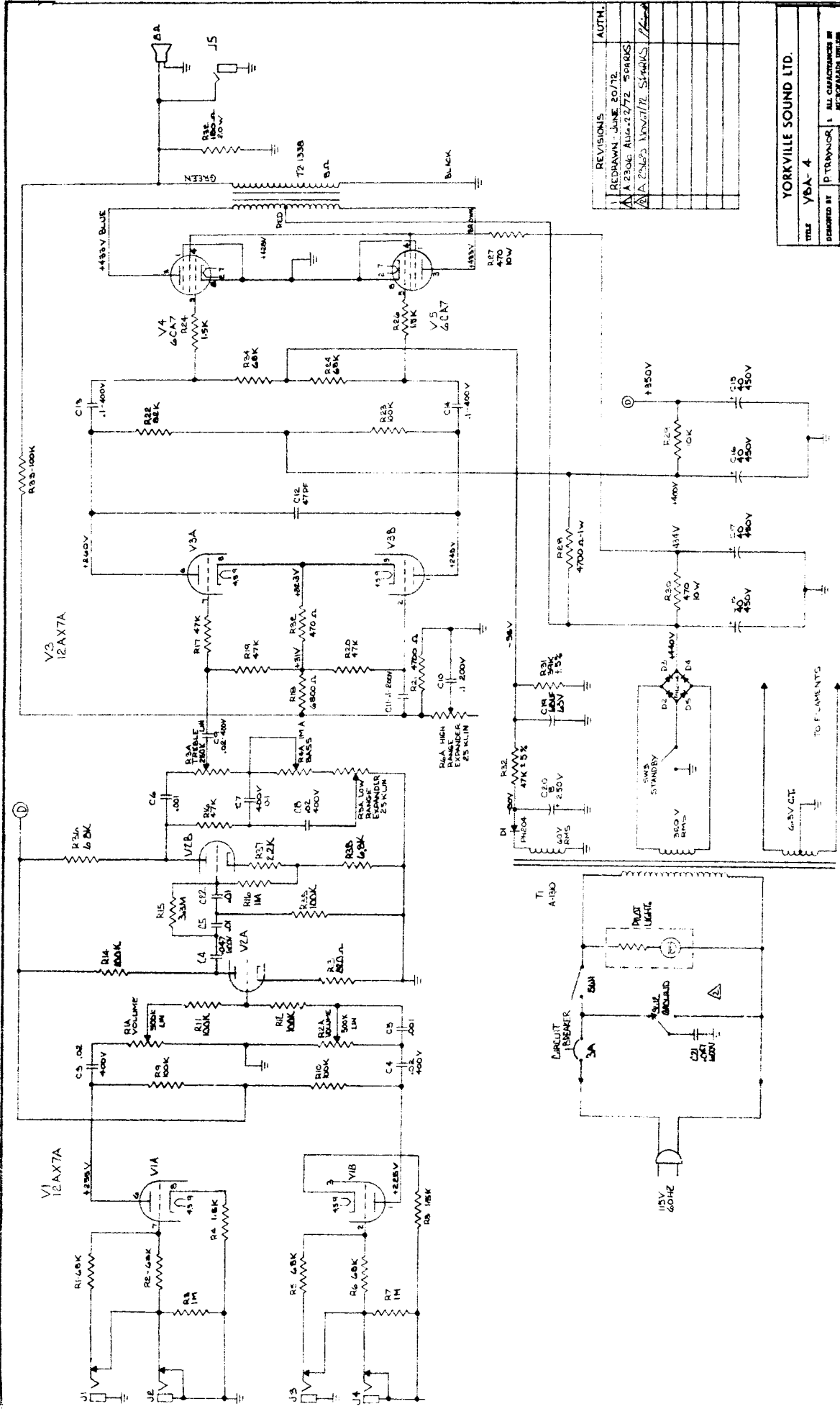
(Harmonic distortion is typically below 5% at the \*pre-clipping output level. Speakers should have total power-handling at least equal to the amps \*full-clipping power)

- For warranty service, contact your authorized Traynor dealer.
- For special information, write to:

Yorkville Sound Limited  
80 Midwest Road,  
Scarborough, Ontario  
Canada M1P 4R2

OR

Yorkville Sound Inc.  
56 Harvester Ave.,  
Batavia, N.Y.  
U.S.A. 14020



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1	REDRAWN - JUNE 20/72		
2	A 230K 10% 2/72		500K
3	A 230K 10% 2/72		500K

**YORKVILLE SOUND LTD.**

DESIGNED BY: P. SIMONIK  
 DRAWN BY: P. SIMONIK  
 CHECKED BY: B. SPARKS  
 APPROVED BY: P. SIMONIK

12/6/72

ALL CAPACITORS IN THIS CIRCUIT ARE OF THE MFD 50V TYPE UNLESS OTHERWISE NOTED.  
 ALL RESISTANCES SHOWN IN OHMS AT 1/4 WATT UNLESS OTHERWISE STATED.  
 ALL VOLTAGES REFERRED TO ARE FOR THE MAIN POWER SUPPLY UNLESS OTHERWISE STATED.  
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