

# TUAC

TRANSISTOR UNIVERSAL AMPLIFICATION CO. LTD.  
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MANUFACTURERS OF ELECTRONIC AND AMPLIFICATION EQUIPMENT

SPECIALISTS IN QUALITY TRANSISTOR EQUIPMENT

PRE-AMPS TYPE VA06, VA08

Pre-amps type VA06, VA08 have high impedance field effect transistor input stages. They are suitable for use with high or low impedance inputs of any amplitude provided a suitable attenuating resistor is placed in series with the input lead. A list of suitable values against input sensitivity is given below.

Output voltage is 70mV.R.M.S. for rated input sensitivity, suitable for use with any TUAC power module.

All pre-amps obtain their power from the main amplifier power supply.

WARNING:- DUE TO THE INHERENT HIGH SENSITIVITY OF FET TRANSISTORS IT IS NECESSARY TO ISOLATE COMPLETELY THE PRE-AMP FROM ALL OTHER EQUIPMENT INCLUDING MAINS EARTH WHEN ANY CONNECTIONS ASSOCIATED WITH THE FET ARE SOLDERED.

## TECHNICAL SPECIFICATION VA06.

Input sensitivity for full drive into power module - tone controls flat - 8mV tone controls advanced - 5mV at 1KHz.

Treble control +22 dB - 15 dB @ 12KHz }  
Bass control + 18 dB @ 40Hz } Ref 1KHz.

Power requirements 40V volts @ 5.5mA.

## TECHNICAL SPECIFICATION VA08.

Input sensitivity for full drive into power module - tone controls flat - 20mV tone controls advanced - 2mV at 1KHz.

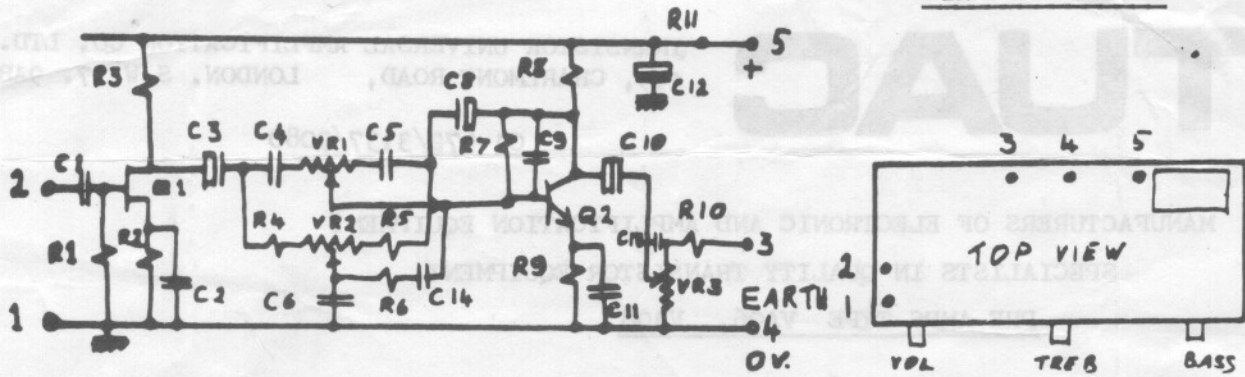
Treble control +28 dB @ 18KHz )  
Middle control +20 - 15 dB @ 4KHz ) Ref 1KHz.  
Bass control +20 dB - 10 dB @ 40Hz )

Frequency response 5Hz - 50KHz

Power requirements 40 volts @ 8.0mA.

TUAC LTD. RESERVE THE RIGHT TO ALTER SPECIFICATION WITHOUT NOTICE.

### CIRCUIT DIAGRAM VA06.



### PIN CONNECTIONS

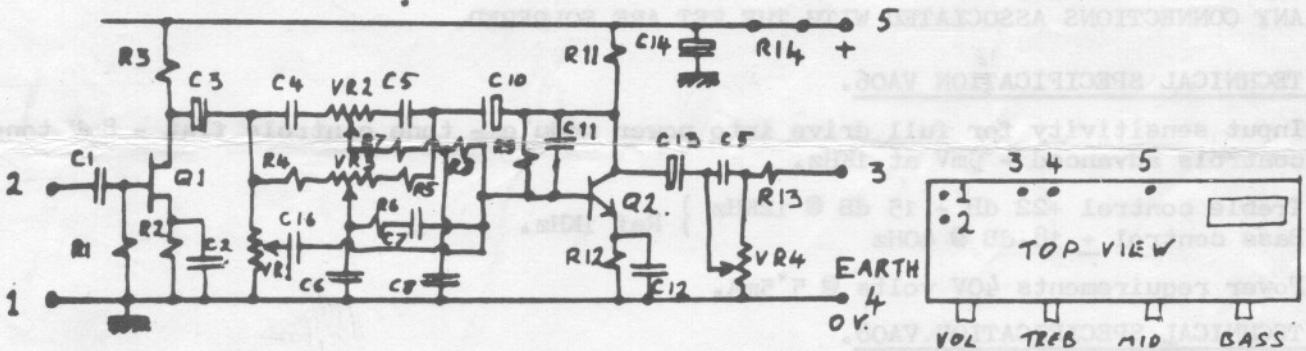
#### COMPONENT VALUES.

E= ohms

R1...1M1	R8...12K	C4...005uF	C11...1uF
R2...100E	R9...470E	C5...005uF	C12...220uF 50V
R3...10K	R10...1K	C6...47uF	C13...1K2pF
R4...2K7	R11...See notes	VR1...47K LN	C14...47uF
R5...2K7	C1...1uF 100V	C8...22uF 25V	VR2...47K LN
R6...6K8	C2...2uF	C9...200pF	VR3...22K LG
R7...330K	C3...22uF 25V	C10...22uF 25V	Q1...BF244B
			Q2...BC184K

Pin 1..Earth    Pin 3..Output    Pin 5.. H.T.+ve  
 Pin 2..Input    Pin 4..H.T. 0 V

### CIRCUIT DIAGRAM VA08.



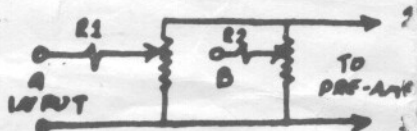
### PIN CONNECTIONS.

#### COMPONENT VALUES.

R1...1M2	R8...4K7	C2...2uF	Q1...BF244B
R2...470E	R9...330K	C3...22uF 25V	Q2...BC184K
R3...10K	R11...18K	C4...02uF	VR1...47K LN
R4...2K7	R12...100E	C5...02uF	VR2...47K LN
R5...2K7	R13...1K	C6...47uF	VR3...47K LN
R6...6K8	R14...See notes	C7...47uF 3V	VR4...22K LG
R7...10K	C1...1uF 100V	C8...005uF	C16...01uF
		C10...22uF 25V	C11...220pF
		C12...47uF 3V	C13...22uF 25V
		C14...220uF 50V	C15...1K2pF

Pin 1..Earth    Pin 3..Output    Pin 5..H.T.+ve.  
 Pin 2..Input    Pin 4..H.T.0 V.

#### NOTES.



A suggested input mixing stage is shown opposite. Both pots are 500K. For ceramic or crystal p.u. R1 & R2 are 1M2. For radio, tape etc. 560K. (35mV.) For mic, guitar etc. 1K (10mV.)

Resistor R1 1/4 on VA06/8 is 1K when used with TUAC power supplies.  
 Pin 7 on SVA01 is connected directly to H.T. (+50V)