

TRACE ELLIOT V-TYPE V4

ADDENDUM TO OPERATING INSTRUCTIONS

Corrections to Technical Information within V8 Operating Instructions applicable to V4 models

POWER AMP

The V-Type V4 is powered by *four* KT88's. These are configured for GRID BIASED CLASS A/B. This is the traditional arrangement for a high powered amplifier of this type, to efficiently produce approximately 200 watts RMS with the valves supplied (at the rated nominal mains input voltage).

OUTPUT IMPEDANCE switch

On the V4 this allows the power stage to be set to drive either 4 or 8Ω loads as indicated.

FULL POWER / HALF POWER switch

In FULL POWER all four output valves are in operation, producing approximately 200 watts RMS. When switched to the HALF POWER setting two of the output valves are effectively turned off, obviously leaving just two in operation, resulting in a reduction in available output power to about 100 watts RMS.

ON / MUTE switch

This allows the power stage on the V4 to be muted. In this mode there will no signal present at the speaker output, but DI and Line Outputs can still be used. In the case of the head version this is most useful as it can be used as a stand alone preamp (for recording purposes). It is not necessary to connect to a speaker cabinet when using the V4 in this way.

OUTPUT VALVE FUSES

If these need replacing use *T315mA* and follow instructions as normal.

BIASING

The V4 features the *Visual Output Bias Indication Circuit* consisting of three different colour LEDs, a BIAS ADJUST trim control as well as two bias TEST POINTS (all on rear panel). Unit should be ON (not STANDBY), MASTER turned down with POWER AMP set to ON / FULL POWER

Checking bias using Visual Output Bias Indication Circuit (recommended)

With the above settings only the green LED should be lit. If the blue LED is lit then the valves are running cool, if the red LED is lit they are running too hot. (n.b. This only applies when there is no signal present, when in use it is normal for all LEDs to be flashing.)

To reset the bias use a trimmer tool in the BIAS ADJUST hole, turn anti-clockwise until the blue LED is lit, then turn back again (clockwise) until the green LED is lit and the blue LED has just gone out.

Checking bias using multimeter in bias test points (for technicians)

Set volt meter to 2V range. Insert black probe (-) into left hand hole, red probe (+) into right hand hole. The reading on the volt meter should be $\approx 0.250V$ ($\pm 0.010V$). If necessary, using a trimmer tool carefully rotate the BIAS ADJUST control to give the correct reading.

For more advice on this please contact the TRACE ELLIOT UK Service Dept. or distributor in your territory.

EARTH LIFT SWITCH – Not fitted to V4

TECHNICAL SPECIFICATIONS

PASSIVE INPUT	1M Ω
ACTIVE INPUT	100K Ω
SEND	100K Ω
RETURN	1M Ω
LINE OUT	100K Ω
DI OUTPUT	600 Ω balanced Nominal level 0dBu (pins 2 & 3 male XLR)
FOOTSWITCH	$\frac{1}{4}$ " Stereo Jack socket for dual latching footswitch (Tip switches between GAIN I & GAIN II, ring switches COMPRESSOR ON & OFF)
SPEAKER OUTPUTS	1 x $\frac{1}{4}$ " jack & 1 x female XLR sockets with impedance switch
POWER OUTPUT	$\approx$ 200 watts RMS - FULL POWER setting $\approx$ 100 watts RMS - HALF POWER setting
FACTORY FITTED VALVE COMPLIMENT	
	7 x ECC83/12AX7 (Double Triode)
	1 x EM84 (Voltage Indicator)
	4 x KT88 (Beam Power Tetrode)

SPEAKER CONFIGURATION (COMBOS ONLY)

V-TYPE V4 210 2 x 10" 100 watt speaker + 300 watt High Frequency Horn

V-TYPE V4 115 1 x 15" 300 watt speaker + 300 watt High Frequency Horn

WEIGHTS & DIMENSIONS

V4 Head	24Kg ($\approx$ 53lbs) W610mm / H235mm / D325mm ($\approx$ 24" / 9 $\frac{1}{4}$ " / 12 $\frac{3}{4}$ ")
V4 210 Combo	47Kg ($\approx$ 104lbs) W610mm / H585mm / D335mm ($\approx$ 24" / 23" / 13 $\frac{1}{4}$ ")
V4 115 Combo	52Kg ($\approx$ 114lbs) W610mm / H725mm / D335mm ($\approx$ 24" / 28 $\frac{1}{2}$ " / 13 $\frac{1}{4}$ ")

Where necessary add to height:- 50mm ($\approx$ 2") to include handle

20mm ($\approx$ $\frac{3}{4}$ ") to include feet

80mm ($\approx$ 3 $\frac{1}{4}$ ") to include castors

Castors are fitted to the V4 combos to make transportation easier, however, we recommend that these are not used on rough surfaces. Also users may find that the units have a superior sound quality if they are removed for performance.

Please contact Trace Elliot if you would like to receive free copy of the updated V-Type Operating Instructions when they become available:-

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