



**TU-8450 Tube Amp Kit is a vacuum tube preamp kit embedded with a phono equalizer necessary for playing vinyl records. The amp is full of features which bring out the flavor of vinyl records and enrich your life with music.**

### ■ A CR-type RIAA equalizer circuit for straight-forward and smooth sound quality

A CR equalizer with an OPamp is adopted. 2068DD OPamps installed to the IC sockets, so that you can explore sound differences by exchanging this OPamp to other models. The preamp supports both MM and MC cartridges.

### ■ Flat amplifier stage consisting of 12AU7

12AU7 tubes are adopted for the line amp stage so that you can enjoy sound difference by rolling 12AU7 tubes of various makers.

For those who already possess 12AU7, there is a tube-less version TU-8450N.

### ■ REC-OUT terminal

The signal selected by the input selector is output from REC-OUT. This function is useful when you connect the preamp to a recording device or when you use an external amplifier.

### ■ Ample space for a larger coupling capacitor

In TU-8450/N, non-inductive polypropylene film capacitors covering high frequencies are adopted. Meanwhile, ample space is provided in the TU-8450 PCB, which allows larger size of capacitors for exchange. For exchange, select a capacitor whose rated voltage is higher than 200V and a capacitance value of 0.47 $\mu$ F, and the maximum size 36mm in length and 20mm in diameter.

### ■ Best combination with TU-8400



Combination with TU-8400

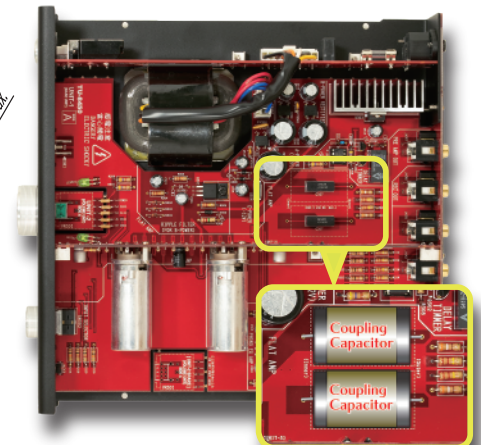


Image of larger coupling capacitors mounted on the PCB



Rear

## Tube Preamp Kit TU-8450 Specifications

### Phono equalizer amp stage

|                                |                                      |
|--------------------------------|--------------------------------------|
| [ Input resistance ]           | 47k $\Omega$ (MM), 100 $\Omega$ (MC) |
| [ RIAA equalization ]          | $\pm 0.5$ dB or less (20Hz-20kHz)    |
| [ Max. output voltage ]        | 7V rms (1kHz)                        |
| [ Gain (1kHz) ]                | 36dB (MM), 63dB (MC)                 |
| [ Residual noise (IHF-A) ]     | 20 $\mu$ V (MM), 290 $\mu$ V (MC)    |
| [ Effective output impedance ] | Approx. 500 $\Omega$                 |

### Flat amp stage

|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| [ Input resistance ]           | Approx. 50k $\Omega$ (LINE 1 - 3), Approx. 10k $\Omega$ (LINE 4) |
| [ Max. output voltage ]        | 17V rms                                                          |
| [ Gain (1kHz) ]                | Approx. 13.6dB (4.8 times)                                       |
|                                | (JP1 and JP2 shorted : approx. 9.5dB (3 times))                  |
| [ Frequency response ]         | 5Hz - 200kHz (-3dB)                                              |
| [ Residual noise (IHF-A) ]     | 20 $\mu$ V                                                       |
| [ Effective output impedance ] | Approx. 600 $\Omega$                                             |

### Overall

|                              |                                                   |
|------------------------------|---------------------------------------------------|
| [ Tubes ]                    | 2x 12AU7 (ECC82 / E82CC / ECC802 / 6189 etc.)     |
| [ Input / output terminals ] | PHONO IN : RCA jack                               |
|                              | LINE IN : LINE 1, 2, 3 : RCA jacks                |
|                              | LINE 4 : 3.5mm phone jack (front)                 |
|                              | PRE OUT : RCA jack                                |
|                              | REC OUT : RCA jack                                |
| [ Power source voltage ]     | 100V AC / 115V (110-120V) AC / 230V (220-240V) AC |
|                              | 50/60Hz, IEC standard 3-pin inlet                 |
| [ Rated power consumption ]  | 10W                                               |
| [ Dimensions ]               | W 253 x H 73 x D 272 mm (incl. projections)       |
| [ Weight ]                   | Approx. 3kg (Assembled, excl. power cord)         |

- The specifications of the product are subject to change without prior notice.
- The color of the product in this document may look different from the actual product.

EK JAPAN's website : [www.elekit.co.jp](http://www.elekit.co.jp)

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