



## AURORA AUDIO INTERNATIONAL

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### Aurora Audio 8 Channel, 4 Band, Equalizer

Congratulations on purchasing the new, all discrete transistor Class A circuitry, four band equalizer.

This unit is designed to normally work with the unbalanced insertions on the rear of the GTP8, eight channel, microphone preamplifier. This way, the equalizer uses the transformer coupled, Class A, circuitry of the GTP8's input and output stages.

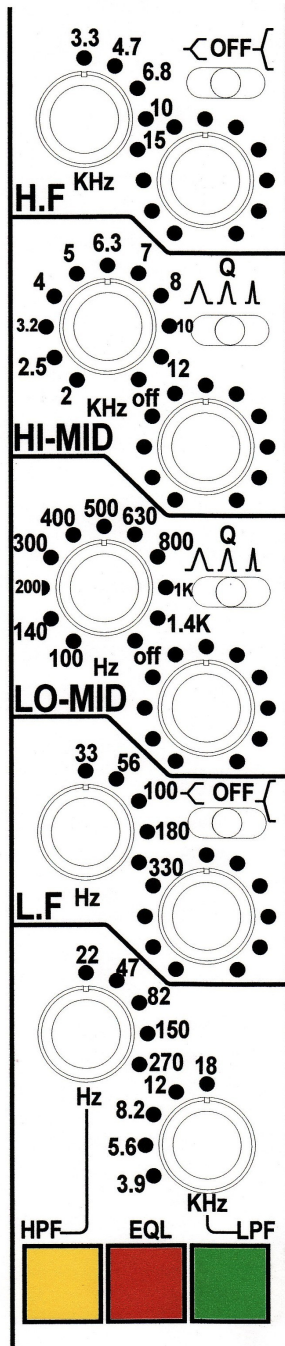
The equalizer is also available, at extra cost, with the transformers and amplifiers included as a stand-alone unit.

The equalizers are nominally unity gain and the equalizer section is engaged by pressing the red switch. The high pass and low pass filters will only work with the EQ button selected.

The low and high frequency controls can be switched out by putting their toggle switch in the center position. The two mid frequency controls are switched out by rotating the knobs fully clockwise.

The toggle switch on the high and low frequency sections of the equalizer provide two degrees of boost and cut, a narrow range on the left provides around 8dB cut and boost while a coarse range provides around 18dB cut and boost. This enables delicate adjustments of the controls.

The toggle switches on the two mid frequency sections of the equalizer provide three degrees of Q adjustment... from a very broad bell in the left position to a narrow one with the switch to the right.



The mid frequency controls have a great deal of cut and boost, especially in the broad Q setting. With the controls fully rotated you can get well over  $\pm 20$ dB range... which can be handy if you want to substantially cut a signal, but in boost mode, you would need to watch the headroom especially if other EQ controls are boosting. I recommend using the mid controls very gently until their range and power is fully assimilated! As there is almost 40dB gain available, with another 36dB in the HF/LF, it would be easy to damage speakers with the excessive boost and, at such gains, cause system instability.

There is a substantial overlap of frequency choices between the low frequency and low-mid (330Hz max LF, 100Hz min Lo-Mid), and the same between the high frequency and high-mid (HF starts at 3.3KHz, Hi-Mid starts at 2KHz). This offers a lot of combinations of frequency compensation in the same frequency bands.

With the high-pass and low-pass filters set to 270Hz and 3.9KHz, a reasonable representation of a telephone conversation can be set up, especially if the high frequency control attenuates at 3.3KHz and the low frequency attenuates at 330Hz to further attenuate the extremes.

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**Warranty: ONE YEAR PARTS AND LABOR LIMITED WARRANTY**

Aurora Audio International warrants this unit against defects in workmanship for a period of one year and parts for a period of one year from receipt by the original end user. This warranty shall not apply to damage resulting from misuse including water damage, in-transit damage, fire damage, improper maintenance, dropping the unit and operation or storage outside the environmental specification for the product.

Do not try to repair this unit. Only qualified Aurora Audio International technicians are authorized to repair this unit. **WARRANTY VOID IF CASE IS OPENED**