

## 205L DIRECT MODULE

“Thin it out and make it bright”

**GAIN:** Input Level Control

**TONE:** THIN to FAT (Fat is Flat)

**HI-Z IN:** 1/4" Hi-Z input  
Guitar level to Line level

**BRIGHT:** Brightens the high end

**METER:** Output Level, VU scale

**THIN+BRIGHT**

**FAT+BRIGHT**

**FLAT**

**THIN+no BRIGHT**

**-20 PAD:** -20 dB PAD switch for high level inputs

**100K LOAD:** Adds a 100K load for changing the tone of a guitar or bass pickup (coil types)

**ON:** Turns ON the signal

**FAT/THIN:** The FAT/THIN knob is designed to take out the mud in the lower strings of a guitar or bass, evening out the relationship of the lows to the highs. With the addition of the BRIGHT switch, you can add clarity the same way as a guitar amp bright switch would. The input impedance is 470K ohms, like a tube amp input stage, preventing pickup loading. The LOAD switch adds a 100K ohm load to the input, changing the tone of a coil pickup slightly.

## 215L HI/LO PASS FILTER

“Schweet”

**LO-PASS:** 500 to 20KHz at 6 dB/oct

**NOTE:** The filter design is a simple passive circuit, using the API 2510, 2520 and the same discrete buffers used in the 550 series EQs.

**HI-PASS:** 20 to 600Hz at 12 dB/oct

**ON:** Hard Wire Bypass

**20Hz HI and LO PASS Ranges 20KHz**

**FILTERING:** This filter is very gradual, at 6dB/oct for the LO-Pass filter and 12dB/oct for the HI-Pass filter. Its primary design is intended for reducing the low-end leakage into a Hi-Hat or overhead mic, or reducing the noise and flap on a bass guitar. Basically, it is not for “fixing” problems, but for contouring the response of a signal without the drastic curves of many EQs and their associated phase shift.

## 225L COMPRESSOR

"Start with all the knobs at 12:00 NOON"

**THRESHOLD:** +10 to -20 dBu

**NOTE:** Adjusting either or both controls will not effect the output level. Much like the 525 Ceiling control, the 225L Auto-Compensates the output level. Listen and check with the ON button. It is very subtle!

**Ratio:** 0 to Infinity

**REL:** Release Time

**ATTACK TIME:** Fast/Slow/Medium (Slow is normal)

**METER:** Shows Amount of Compression in an expanded scale.

**HARD:** Sharp Knee at the Threshold

**SOFT:** Gradual Knee at the Threshold

**NEW:** "VCA" type Compression "Feed-Forward"

**OLD:** Classic type Compression "Feed-Back"

**ON:** Hard Wire Bypass

**COMPRESSION:** The 225 can compress in a very undetectable way when the RATIO is set at 2:1 and you are in the SOFT and OLD mode. Likewise, when the RATIO is set at INF, and the HARD and NEW positions are selected, the compressor can smash what ever is put into it. Sometimes it can be deceiving as to how much is being compressed because of the Auto-Compensation of the output level, as you never get to hear how much you "turned it down" and how much you had to make back up. Fatness in only skin deep...

## 235L NOISE GATE/EXPANDER

"Start with all the knobs at 12:00 NOON"

**THRESHOLD:** +25 to -15 dBu

**NOTE:** The DEPTH control is expanded from 0 to -9dB in the first half of rotation and -10 to -80 in the second half of rotation for better control of vocals, etc.

**Depth:** 0 to -80 dB

**REL:** Release Time

**ATTACK TIME:** Fast/Normal

**METER:** Shows Amount of Noise Reduction

**EXP:** 2:1 Expander, up to the Threshold

**GTE:** Gate Mode, ON at Threshold

**HLD:** Release knob is HOLD on time

**REL:** Release knob is GATE decay time

**ON:** Hard Wire Bypass

**EXPANDING:** With the 235 in the GTE (gate) mode, adjust the DEPTH control for the desired amount of gain reduction. Set the THRESHOLD so the gate comes on at the point that you want the gate to be fully open, but NOT at the quietest level that will trigger the signal (like you would in the gate mode). Switch to EXP, and the signal will "sneak" up to the preset threshold level and will then will be fully on, reducing the noise below the threshold without losing any subtle portions of the signal.