

AMTEC BC-5A BAND COMPRESSOR

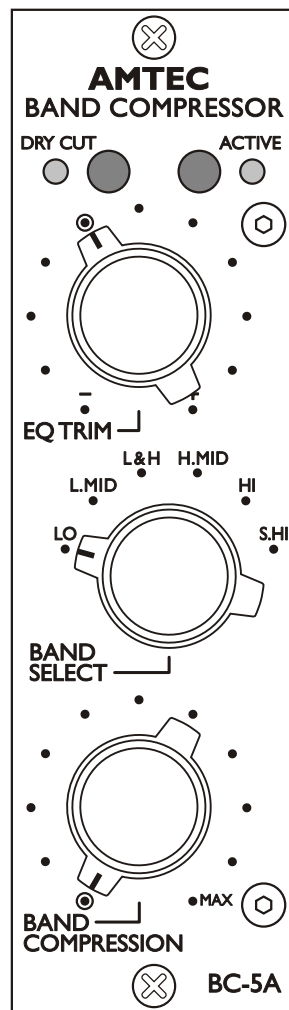
The Band Compressor is an unique dynamic equalizer that works only in one selected band. It allows to boost or attenuate signal in the band and, additionally, to automatically limit the amount of gain in that band.

The BC-5A uses parallel processing, where filtered, limited and phase manipulated input signal is added to the direct unaltered path, resulting in minimal signal degradation.

DRY CUT button with corresponding red LED:
mutes the direct path leaving only
the processed signal

Continuously variable EQ TRIM control works
as a equalization gain knob with the range of
-20dB to +12dB. The zero point is off-center
for increased precision when boosting.
The control sets the basic non-limited low-level
frequency response.

Continuously variable COMPRESSION control
sets the gain reduction in the selected band.
The range is from the gain set by the EQ TRIM
knob to -20dB.
The control sets how much the signal in the
selected band is reduced when it's too loud.



ACTIVE button with corresponding green LED
Hardwired bypass operated by a relay.

6-position BAND SELECT switch selects the band
of operation for the unit. The bands are:

- LO - shelving low frequency response
(internally selectable for 70Hz, 120Hz or 180Hz)
- L.MID - peaking low-mid frequency response
centered at 240Hz
- L&H - wide-band signal with accentuated
low and high frequencies
- H.MID - peaking high-mid frequency response
centered at 3,4kHz
- HI - shelving high frequency response
- S.HI - shelving high frequency response with
a higher frequency point and a steeper
slope than the HI band

The DRY CUT button allows to hear what is being added (or subtracted) from the incoming signal. DRY CUT feature can be also used for parallel processing using external mixing device.

IMPORTANT NOTICE: when using the DRY CUT mode and applying compression to a boosted signal a distorted "choked" sound can be heard. That is because the sidechain filtered signal is nulled and then reappears with reversed phase what sounds very unnatural and distorted on its own, but is perfectly sound when combined with the direct unprocessed signal.