

tree audio / los angeles



THE BRANCH II

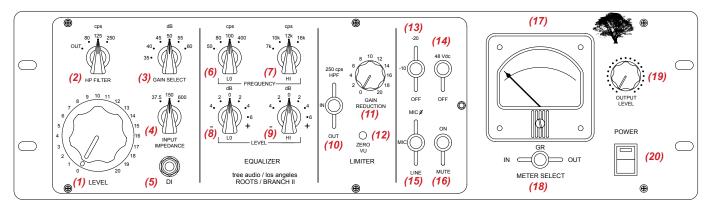
Pure Tube Channel Strip Mic Pre, Line In, Direct In, Direct Out, EQ, Limter

USER'S GUIDE

TREE AUDIO 7710 MAESTRO AVENUE WEST HILLS, CA. 91304

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BRANCH II FRONT PANEL OVERVIEW



- (1) BIG KNOB LEVEL Controls input level (mic and line)
- (2) HI PASS FILTER @ 80Hz/120Hz/250Hz 6 dB per octave
- (3) GAIN SELECT SWITCH Controls gain of 1st tube stage, 35,40,45,50,55,60 dB
- (4) INPUT IMPEDANCE SWITCH Controls input impedance of input transformer, selectable between 37.5 Ohms, 150 Ohms or 600 Ohms, nominal input for line input is 150 Ohms
- (5) 1/4" DI INPUT Hi Z in for guitar/bass/keyboard passive or active
 Set source select switch (15) to line level for high level signals or mic for low level signals
- (6) LO FREQ SELECT 50Hz, 80Hz, 100Hz, 400Hz Baxandall type / all shelving
- (7) HI FREQ SELECT 7k, 10k, 12k, 16k Baxandall type / all shelving
- (8) LO LEVEL SELECT Boost up to 6dB in 2 dB steps/cut up to 4 dB in 2 dB steps
- (9) HI LEVEL SELECT Boost up to 6dB in 2 dB steps/cut up to 4 db in 2 db steps
- (10) LIMITER IN / OUT HI PASS FILTER SWITCH HPF 250 Hz @ 6 dB per octave, for detector circuit only
- (11) LIMITER GAIN REDUCTION POT Clockwise adjusts gain reduction (optical)
- (12) VU METER ZERO ADJUST To align the meter set meter select switch (18) to GR (gain reduction) and adjust VU meter to "0" on the meter
- (13) PAD SWITCH Pads down the input level by -10 dB or -20 dB mic only
- (14) PHANTOM 48Vdc switch, supplies phantom power to condenser microphones
- (15) LINE / MIC / MIC PHASE REVERSE SWITCH Selects the input source, mic / line or mic phase reverse
- (16) MUTE SWITCH Mutes entire channel
- (17) VU METER (looks at line input, limiter gain reduction, and output level)
- (18) METER SELECT SWITCH IN position looks at line level only, not mic level / GR (gain reduction) is used to monitor limiter levels / OUT position is used when looking at the ouptut level of the whole channel, including mic levels
- (19) OUTPUT LEVEL Overall ouptut level, this should typically be set full up, fully clock wise Attenuates (cuts) only if output level is overdriving next piece of equipment
- (20) POWER SWITCH Turns the Branch II on or off.

FAST TRACK SETUP

WITH A MICROPHONE AS THE SOURCE

With a microphone plugged in to the MIC IN XLR on the rear of the unit and the LINE OUT XLR connected to an appropriate record / monitor input, set the front panel controls as follows:

Big Knob Level (1) should initially be set to zero (all the way off / fully counter clockwise)

HP FILTER (2) set to out

GAIN SELECT (3) switch set to 55

INPUT IMPEDANCE (4) Switch set to 150 Ohms

EQUALIZER LEVEL switches (8,9) set at 0 (straight up) EQ not enaged

LIMITER SWITCH (10) in the out position

GAIN REDUCTION (11) knob set to zero (all the way off, fully counter clockwise)

PAD switch (13) set to off

Phantom power switch (14) set to 48Vdc if using a condenser mic (one with no external power supply) or off if using a dynamic or self powered microphone.

Source select switch (15) set to MIC

MUTE switch (16) set to on

METER SELECT (18) switch set to OUT

OUTPUT LEVEL (19) set to full counter clockwise

POWER (20) switch turned on (red LED should glow)

Slowly turn up the big knob level pot, checking the meter and monitors for level and sound.

Engaging the EQ: because of the nature of this design there is no bypass switch on the EQ, this Baxandall type only becomes engaged when the EQ level knobs are boosted or cut. To disengage the EQ the level pots need to be turned to zero.

Engaging the Limiter: The limiter is engaged by moving the limiter switch (10) in to the IN position. A 250 Hz hi pass filter can be engaged by moving the switch to the 250 Hz position. Adjusting the GAIN REDUCTION knob (11) increases the amount of limiting. This is a simple but effective limiter based on a unique opto design.

FAST TRACK SETUP

WITH A LINE LEVEL SIGNAL AS THE SOURCE

With a line level signal plugged in to the LINE IN XLR on the rear of the unit and the LINE OUT XLR connected to an appropriate record / monitor input, set the front panel controls as follows:

Big Knob Level (1) should initially be set to zero (all the way off / fully counter clockwise)

HP FILTER (2) set to out

GAIN SELECT (3) switch set to 55

INPUT IMPEDANCE (4) Switch set to 150 Ohms

EQUALIZER LEVEL switches (8,9) set at 0 (straight up) EQ not enaged

LIMITER SWITCH (10) in the out position

GAIN REDUCTION (11) knob set to zero (all the way off, fully counter clockwise)

PAD switch (13) set to off

Phantom power switch (14) set to 48Vdc if using a condenser mic (one with no external power supply) or off if using a dynamic or self powered microphone.

Source select switch (15) set to LINE

MUTE switch (16) set to on

METER SELECT (18) switch set to OUT

OUTPUT LEVEL (19) set to full counter clockwise

POWER (20) switch turned on (red LED should glow)

Slowly turn the big knob level pot, checking the meter and monitors for level and sound.

Engaging the EQ: because of the nature of this design there is no bypass switch on the EQ, this Baxandall type only becomes engaged when the EQ level knobs are boosted or cut. To disengage the EQ the level pots need to be turned to zero.

Engaging the Limiter: The limiter is engaged by moving the limiter switch (10) in to the IN position. A 250 Hz hi pass filter can be engaged by moving the switch to the 250 Hz position. Adjusting the GAIN REDUCTION knob (11) increases the amount of limiting. This is a simple but effective limiter based on a unique opto design.

FAST TRACK SETUP

WITH DIRECT INPUT (DI) AS THE SOURCE

With a guitar, bass or keyboard plugged into the 1/4" jack on the front of the unit. LINE OUT XLR connected to an appropriate record / monitor input, set the front panel controls as follows:

Big Knob Level (1) should initially be set to zero (all the way off / fully counter clockwise)

HP FILTER (2) set to out

GAIN SELECT (3) switch set to 55

INPUT IMPEDANCE (4) Switch set to 150 Ohms

EQUALIZER LEVEL switches (8,9) set at 0 (straight up) EQ not enaged

LIMITER SWITCH (10) in the out position

GAIN REDUCTION (11) knob set to zero (all the way off, fully counter clockwise)

PAD switch (13) set to off

Phantom power switch (14) set to 48Vdc if using a condenser mic (one with no external power supply) or off if using a dynamic or self powered microphone.

Source select switch (15) set to MIC or LINE (selects different levels) In mic position used for lo level audio (-25 to -50 dB) guitars, basses etc. In line position used for hi level audio (-15 to -25dB) line level equipment

MUTE switch (16) set to on

METER SELECT (18) switch set to OUT

OUTPUT LEVEL (19) set to full counter clockwise

POWER (20) switch turned on (red LED should glow)

Slowly turn up the big knob level pot, checking the meter and monitors for level and sound.

Engaging the EQ: because of the nature of this design there is no bypass switch on the EQ, this Baxandall type only becomes engaged when the EQ level knobs are boosted or cut. To disengage the EQ the level pots need to be turned to zero.

Engaging the Limiter: The limiter is engaged by moving the limiter switch (10) in to the IN position. A 250 Hz hi pass filter can be engaged by moving the switch to the 250 Hz position. Adjusting the GAIN REDUCTION knob (11) increases the amount of limiting. This is a simple but effective limiter based on a unique opto design.