



TC Booster<sup>+</sup>  
Linedriver & Distortion

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**INSTRUCTION MANUAL**

TC BLD - has been designed as a versatile effectunit, suitable to a very wide range of applications. On stage and in the studios. Advanced design with top quality components encased in a rugged die-cast box, ensures a reliable on-the-road life for many years.

**FEATURES**

LOW NOISE DISTORTION-FREE BOOSTING/preamplification (+/-30dB) for raising low-level signals (e.g. from pianos) to studio level, or to overdrive your amp.

EFFICIENT TONAL ADJUSTMENT possibilities with active Bass & Treble controls, switched in/out by footswitch allow quick changes of sound on stage.

VERY HIGH INPUT IMPEDANCE (3,3Mohms) preserves the natural harmonic richness of your instrument.

BUILT-IN DISTORTION UNIT (emphasizes even-harmonics) with a special tube-amplifier-like character, provides you with a warm, broad and sustained sound possibility.

XLR LINEDRIVER low impedance output for a markedly improved sound when using long cables, for on-stage-recording, and direct to mixer/ PA applications' and in the studio.

NOISE SUPPRESSOR with variable threshold, and very smooth fading-action (different from noise-gates) improves instrument-signal to noise ratio up to 20 times (26dB).

ELECTRONIC BYPASS, external power and LED indicator further enhance the user-flexibility.

ALL FOUR EFFECTS capabilities can be used in single or combinations.

STABILISATION CIRCUITS ensure reliable and unchanging performance all through the life of the battery) which is very long, due to the low power consumption of TC BLD.

EX. POWER connection allows easy use of an external powersupply. Studios will normally connect an 18 or 24 VDC supply.

**DESCRIPTION OF CONTROLS**

INPUT socket has built-in power switch, so that battery is used only when the inputjack is inserted. Any signal may be connected here, even signal sources with impedance of up to 3Mohms, like ceramic transducers

OUTPUT. TC BLD has two outputs: A normal jack output, and the XLR socket linedriver output. Due to the very low linedriver output impedance of the TC BLD, very long cables can be connected directly to both of the two outputs, without affecting the signal in any ways.

With the XLR output, it is possible to make direct signal recordings on stage, and in the studio. Another application is to connect the XLR-linedriver output directly to the PA system, 1) saving the often troublesome mixing of your stageamp. 2) making it possible to switch by foot on the TC BLD, between a clean; and a warm, overdriven amplifier-like sound. The linedriver outputs are active, whether the boosting or distortion effects are bypassed or not.

BOOST/DIST. switch selects between the two main modes of operation: clean, distortionfree boost +/-30dB, and the warm character distortion.

GAIN controls the amount of boost or preamplification +/-30dB in the boost mode, with a unity gain centered between 2 and 3. In dist. mode, the output gain is controlled, not affecting the distortion character (as long as the following power amp is not overdriven).

BASS & TREBLE provide you with a set of high quality active tonal modification possibilities in boost and disc. mode. The controls being switched out, when bypassed by foot switch or when set to center positions (0dB).

DISTORTION (only functional with Boost/Dist. switch in Dist. position). The increasing amount of added distortion and sustain with clockwise rotation, ranges from a just noticeable (0,1), to a quite sustained and hard distortion. With the 2. harmonics dominating TC BLD is very useful for the simulation or enhancement of tube amp-overdriven distortion. A special filtering is inserted after the distortion unit to further enhance the appearance of the distortion character. Unlike most other distortion-units, the distortion action is completely disabled, when in boost and bypass mode - ensuring absolutely no interference when distortion-free signal-through is wanted.

NOISESUPPRESSOR THRESHOLD sets the level at which the noise suppressor becomes active. Adjustment: Stop playing, so there is no signal from your instrument, now listen carefully to the background noise while slowly turning up clockwise noise sup. threshold (starting from fully counterclockwise position ) until the noise is just suppressed. This will assure the optimum setting, leaving the music as unaffected as possible.

EX. PWR. external power connection. Standard 3.5mm. minijack. Operate without the use of battery with an external powersupply of 8-24 VDC connected here. TC POWERSUPPLY or any other capable of supplying a hum-free voltage within this range. TC BLD is capable of handling studio-level signals (max.18dB) when it is supplied with 18-24 volts DC here.

EX. BYPASS controlling TC BLD is possible using a simple momentary switch connected to this socket. Using this facility TC BLD can be placed more conveniently on e.g. the amplifier, or on an effectsstand for easier access to the controls, while still being able to do the in/out switching by footswitch. The TC ex. bypass cable can be prolonged unlimitedly without in any ways affecting your signal quality, as a DC control voltage only, is on the ex. bypass line.

CHANGE OF BATTERY. The battery can be changed by removing the four screws in the bottom of TC BLD. The battery should be removed before storing TC BLD for longer periods, or when operating on ex. power only, to avoid possible damage from battery-leakage.

FOR LONGEST LIFE OF BATTERY: REMOVE JACK FROM INPUT AFTER USE.

WARRANTY & SERVICE Please read the WARRANTY card for full details and instructions.

# TECHNICAL SPECIFICATIONS

## **TC Booster+** **Linednver & Distortion**

		SWITCHED IN	SWITCHED OUT
INPUT IMPEDANCE	TYP.	3 MOhm	3 MOhm
LINEDRIVER OUTPUT (XLR)	MAX.	50 Ohm	50 Ohm
LINEDRIVER OUTPUT (JACK)	MAX.	50 Ohm	50 Ohm
FREQUENCY RANGE		10-40000 Hz	10-40000 Hz
MAX. INPUT LEVEL		+ 6 dBV	+ 6 dBV
MAX. OUTPUT LEVEL		+ 8 dBV	+ 8 dBV
DYNAMIC RANGE		106 dB	110 dB
VOLUME GAIN		+/- 30 dB	
DISTORTION IN BOOST MODE		0,03 %	
TREBLE CONTROL RANGE	10 KHz	+/- 16 dB	
BASS CONTROL RANGE	100 Hz	+/- 16 dB	
DISTORTION CONTROL RANGE		40 dB	
NOISE SUPPRESSOR :			
THRESHOLD		-50 to -90 dBV	
SLOPE		1:4	
SUPPRESSION	MIN.	20 dB	
BATTERY		(006p) 9 Volts	
POWER CONSUMPTION	TYP.	12 mW	12 mW
CURRENT CONSUMPTION	TYP.	1,3 mA	1,3 mA
EXTERNAL POWER SUPPLY		8-18 VDC	8-18 VDC
SIZE :			
LENGHT		124 mm	
WIDTH		98 mm	
HEIGHT		50 mm	(31 mm excl. knobs)