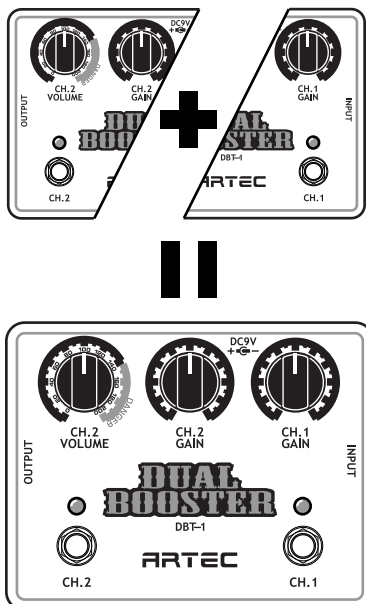


Individual two boosters in one pedal



Specification

- Battery: 9V Alkaline 6LR6I or 6F22
- DC power supply: 9V regulated
- Power consumption: 8mA
- Frequency response : 10Hz to 20kHz
- Input impedance : 3.3Mohm
- Output impedance : 2kohm
- Dimension: 94(w) x 121(h) x 34(d) (mm)
- Weight: 340g (include battery)

Dual Booster

Two clean booster circuits in one unit! The first circuit (right side, green LED) contains one Boost pot meter, to set the gain level of the circuit, while the other circuit (left side, red LED) contains a Boost pot meter, for gain levels, and a Level pot, which controls the output level of the circuit (basically a Master Volume control). The unit has two foot pedals for separate control of the two circuits. The pedal uses True Bypass technology, meaning that even when switched off the pedal perfectly maintains the original tone of the instrument. Since both the circuits are separately capable of a 20db boost, care should be taken when using both boosters together, as damage can be caused to our amplifiers by the extreme signal.

The heart of the unit is a BS170 mos-fet transistor. The inputs are high impedance, meaning that there is no ill effect on the dynamics or the sound quality of the signal from the pickup. The circuits react very dynamically to every nuance of sound. I did not include in the prototype the two 3.3M capacitors included in the drawing, because this would have taken away from the purity of the input impedance. However this results in a small click when the unit is first switched on, caused by discharge of the condensators.

The Boost pots, set on zero, boost the signal by 0db, set on ten, they boost by 20db each. Since they can be used in parallel, and not just separately, combinations of the 2 boosts and the master level settings provide opportunities for fuzz and overdrive sounds, giving us a truly versatile pedal!

The pedal runs on DC 9V, via either battery or filtered adapter. The DC plug is Boss standard (2.1mm, negative centre)

The pedal is suitable also for use with Bass guitar.

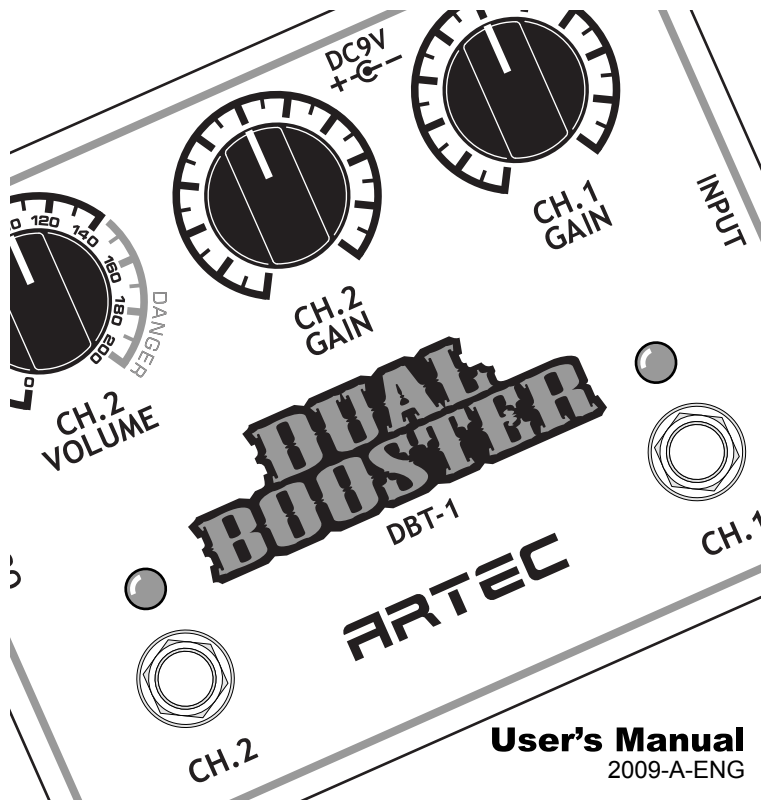
It can be used as a booster, or even as a preamp.

The Boost function offers many opportunities and settings. If using the pedal as a Driver, the Level pot should first be set to 0, and slowly raised, to avoid damage to other units.

The Booster can be used anywhere in your effects chain. If we wish to raise solo volumes, then it is best placed at the end of the chain, however if we wish to fatten up our existing distorted sound, it should be placed before the distortion unit. If we are using an amplifier's drive channel, then the booster can be incorporated into the effects loop.

ARTEC DBT-1

DUAL CHANNEL CLEAN BOOSTER



User's Manual
2009-A-ENG

Controls

