

**deBont  
amplifiers**

# **Detti series Tube Power Amplifier Owner's Manual (v1.1)**

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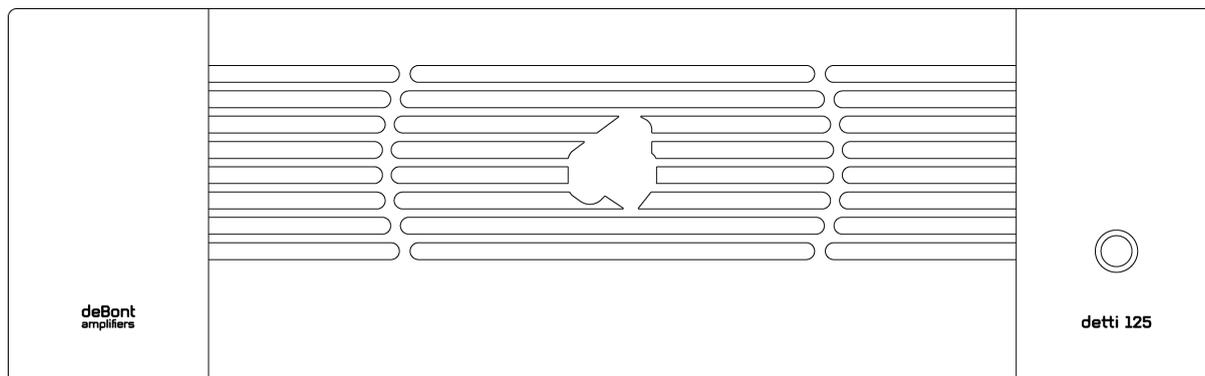
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# Front



## ■ Front panel

The front panel of the Detti 125 and Detti 300 tube power amplifiers is void of any buttons, switches or other controls, minimizing the chance of any accidental operating mishaps. Exception is the status LED, showing the amp's current state of operation.

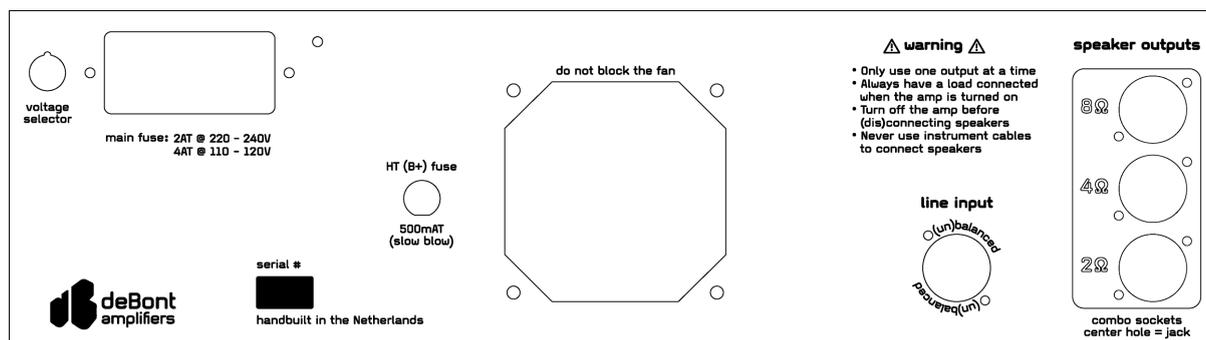
*Warning: never cover the front grill while the amplifier is turned on. It's a vital part of the airflow for cooling the inside electronics.*

## ■ Status LED

The color of the status LED shows you exactly how the Detti is performing at any given moment:

- green (solid): The amp is warm, bias is set, everything is good to go. Monitoring of all vital elements will continue in the background
- orange (solid): The amp is warming up. Bias and other systems are checked continuously and adjusted if necessary.
- red (solid): Initial startup color
- purple/off (blinking): No bias voltage detected. The amp will turn itself off to prevent damage to the power tubes.
- blue/off (blinking): The fan is not turning. Check for blockage. The amp will turn itself off for protection after 2 minutes.
- blue/red (blinking): The fan has not been turning for 2 minutes. The amp will turn itself off to prevent thermal damage.
- red/yellow (blinking): Power tube / HT error. Sequence of four light pulses in order of the tube numbers, followed by a short pause. Yellow indicates the tube is fine, red that the tube is defective. Four red pulses means there's no HT (B+).

# Back



## Line Input

A single Neutrik Combo series jack/XLR input connector. It will accept a 6.3mm (1/4") jack (TS or TRS) or XLR plug and will work with both balanced or unbalanced signals. However, a balanced input signal is preferred over an unbalanced one. An unbalanced 4Vpp or balanced 2.4Vpp input signal will drive the Detti to maximum power output.

## Speaker outputs

The Detti series is equipped with three Neutrik SpeakOn Combo receptacles. One for each supported speaker impedance; 2, 4 and 8 ohms. You can use either a 6.3 mm (1/4") jack or Neutrik SpeakOn plug to connect a speaker cab. It is imperative you only use one speaker output at a time. Using multiple will impair proper operation and might cause damage to the amplifier.

*Warning: Always have a (speaker)load connected when the amp is turned on. The outputs are protected, but applying big signal to the input with no load connected might result in serious damage to the amplifier.*

*Warning: Only use proper speaker cabling. Never use instrument cables or the likes.*

## Voltage selector

The Detti series can be used in countries with mains voltages from 110VAC to 120VAC or from 220VAC to 240VAC. Choose the voltage closest to the actual mains voltage by turning the selector with a small screwdriver, until it clicks into place. Failure to do so will either cause the amp to not work properly, or cause serious damage to the inside electronics.

## Power cord receptacle

The Detti series is fed by a IEC 60320 C13 plug, better known as a computer plug. Please make sure the power cord is undamaged and of proper quality.

## Power switch

Use this switch to turn the amplifier on or off.

*Note: There's no standby switch as seen on most other tube amplifiers. The Detti will take care of all processes normally associated with standby switches.*

## ■ Main fuse

This fuse cuts power to the entire amplifier in case of a serious fault.

## ■ HT (B+) fuse

For safety reasons, the high voltage used in the Detti series has its own dedicated fuse.

*Note: always(!) use a high voltage type fuse. Regular fuses are intended for mains AC voltages only, not high voltage DC.*

## ■ Replacing a fuse

Turn off the amp, unplug the power cord and let the remaining energy drain for at least 20 minutes before checking and/or replacing any of the fuses. Always replace with a fuse of the same rating as stated on the back of the amplifier below the fuse holder.

*Note: Fuses usually blow for a good reason. Please consult a qualified technician when replacement is necessary.*

## ■ Fan

The Detti series requires active cooling for both the electronics and to maximize the lifespan of the power tubes. Air is sucked in through the back and blown out through the front grill. Blocking the fan or stopping fan rotation altogether will result in the amp shutting itself off to protect itself against thermal damage. The front panel status LED will first blink blue/off. If fan operation is not restored within 2 minutes, the front panel status LED will blink blue/red and the power is cut.

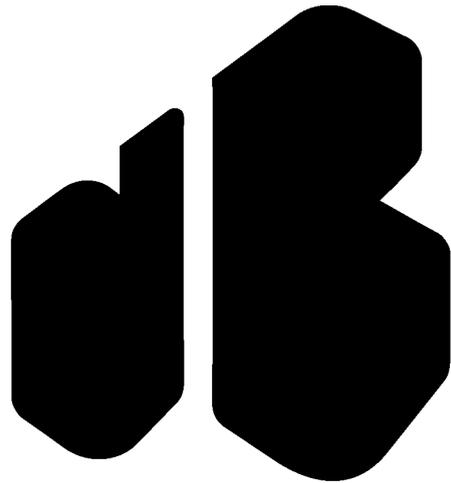
## ■ How to replace tubes

The procedure to replace either the small signal tubes or the power tubes is roughly the same. The small signal tubes do not require biasing. The power tube's individual bias settings are fully automated thanks to rockSteady bias.

***!WARNING!*** Never turn the amp on when the top cover is removed. The voltages used inside the Detti series are lethal!

### Procedure

- 1) Turn off the poweramp.
- 2) Unplug the power cord.
- 3) Let the tubes cool down and the power supply drain any residual voltage for about 20 minutes
- 4) Remove the top cover.
- 5) Carefully and slowly remove the tube you want to replace by gently pulling and ever so slightly wiggling it. Easy does it.  
\* in case of a power tube, carefully lift the metal retainer and put it alongside the tube
- 6) Press the new tube into the socket. It can only go in one way. Don't force anything!
- 7) Replace the top cover and tighten screws.
- 8) Turn on the amp and let it adjust itself to the new tubes for about 10 minutes.
- 9) Rock on.



# deBont amplifiers

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## revisions

- 1.0 initial release
- 1.1 added note to always use high voltage fuses for HT protection  
combined Detti 125 and Detti 300 manuals