

# SUPPRESSOR

The Audio Interactive  
De-Esser/Feedback Processor

Model DE 2000



VERSION 2.2 July 1995

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# BEHRINGER®

Spezielle Studioteknik GmbH

# CONTROLS

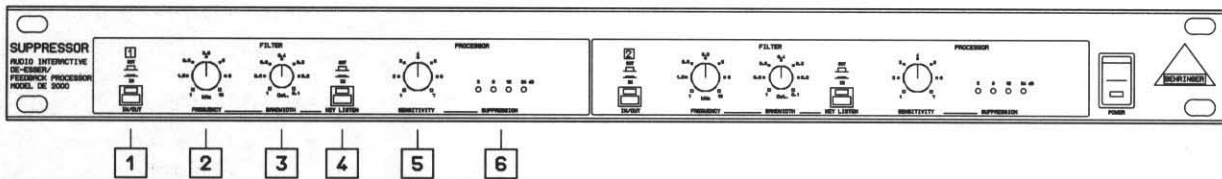


Fig. 11 The control surface of the SUPPRESSOR

## 5.1 FRONT PANEL LAYOUT OF THE SUPPRESSOR

The Behringer SUPPRESSOR has two identical channels. Each channel is equipped with 2 push button switches, 3 rotary controls and 4 LEDs.

### 1 IN/OUT switch

This switch activates the relay and engages the corresponding channel. The switch has a "Hard Bypass" function. This means that when the switch is not depressed (OUT) or the unit is turned off, the input to output connections are direct. The IN/OUT switch is used to make direct A/B comparisons between source material and the processor's effected signal.

### 2 FREQUENCY control

This control determines the centre frequency of the bandpass filter, within a range from 1 to 16 kHz. The control serves for tuning the unit in to the disturbance signal.

### 3 BANDWIDTH control

This control selects the slope or bandwidth of the key filter. The bandwidth can be set within a range from 1 to 0.1 octaves, so that even narrowband filter settings can be achieved.

### 4 KEY LISTEN switch

Using this switch will enable you to connect the key control signal to the audio output, whilst at the same time muting the audio input. This function provides a pre-monitoring facility for the filter signal and thus facilitates the sonic adaptation to the disturbance signal.

### 5 SENSITIVITY control

With this control the user can set the threshold level: any signal exceeding the threshold level triggers the filter function. Using the SENSITIVITY control the unit can be adapted to the level of the disturbance signal.

### 6 SUPPRESSION LEDs

These LEDs indicate the depth of the dynamic filter. The filter depth is indicated by 4 LEDs and lies between 3 and 24 dB.

# THE BACK PANEL LAYOUT OF THE SUPPRESSOR

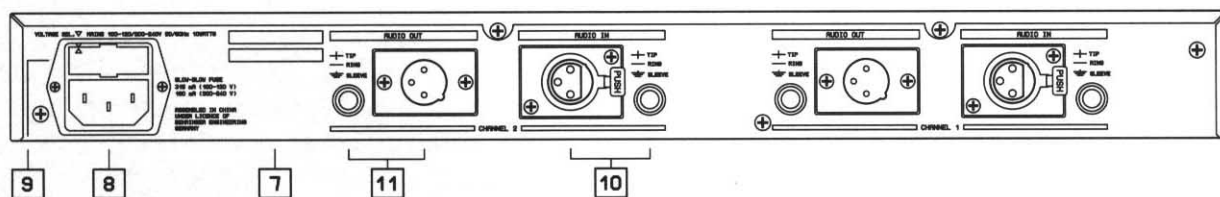


Fig. 12 The back panel layout of the SUPPRESSOR

## **7** SERIAL NUMBER

Please take the time to make a note of the serial number in the space provided on the enclosed warranty registration card. Put the instruction manual in a safe place and return the completed warranty registration card to us within 8 days of purchase, making sure that the dealer stamp has been acquired.

## **8** MAINS CONNECTOR

Please use the enclosed mains cable to connect the unit to the mains power supply.

## **9** FUSE HOLDER/VOLTAGE SELECTOR

Please note that, depending on the mains voltage supplied to the unit, the correct fuse type and rate must be installed.

*Please note that the AC voltage selection is defined by the position of the fuse holder. If you intend to change the operating voltage, remove the fuse holder and twist it by 180 degrees before you reinsert it. When fully in place, a marker on the fuse-holder indicates which voltage is currently selected.*

Before you connect the unit, please make sure that the displayed voltage corresponds to your mains supply.

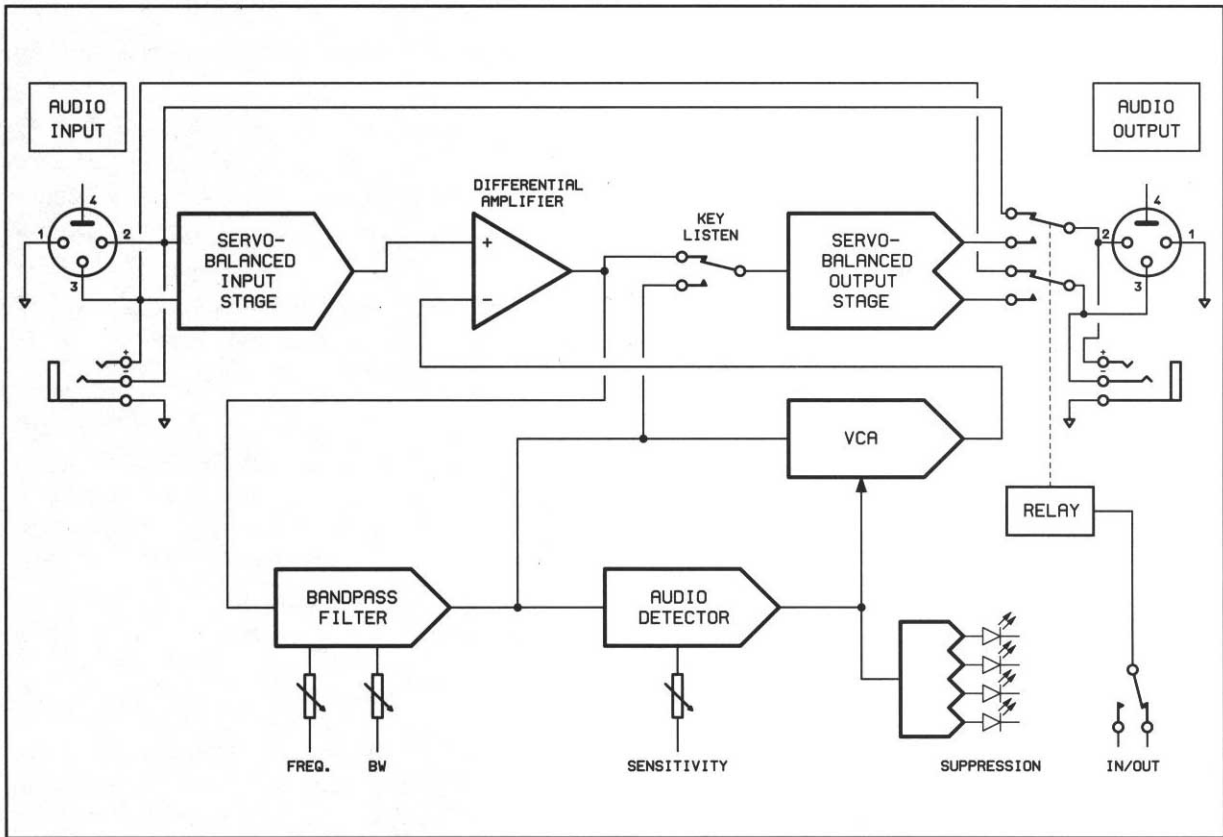
## **10** AUDIO IN

These are the SUPPRESSOR's audio inputs.

## **11** AUDIO OUT

These are the SUPPRESSOR's audio outputs.

# BLOCK DIAGRAM



# SPECIFICATIONS

## INPUTS

Type	RF filtered, servo-balanced input
Input Impedance	60 kOhms, balanced
Nominal Operating Level	-10 dBV to +4 dBu
Maximum Input Level	+20 dBu balanced and unbalanced (unity gain)
CMR	better than 40 dB

## OUTPUTS

Type	Electronically servo-balanced output stage (optional transformer-balanced). Automatic level correction for unbalanced use (correction: 6 dB).
Output Impedance	40 Ohms, balanced and unbalanced
Maximum Output Level	+26 dBu balanced, +21 dBu unbalanced
Bandwidth	5 Hz to 20 kHz, +0, -1 dB
THD @ +4 dBu	0.08 % typ. (all controls centered)
IMD (SMPTE) @ +10 dBu	0.1 % typ.
Noise & Hum, unity gain	-96 dBu (20 Hz to 22 kHz, unweighted)
Crosstalk @ 20 kHz	better than -89 dBu

## PROCESSOR SECTION

Type	Interactive dynamically controlled notch filter
SENSITIVITY control	variable (1 to 7)

## KEY FILTER SECTION

Type	State-variable parametric filter
FREQUENCY control	variable (1 kHz to 16 kHz)
BANDWIDTH control	variable (1 to 0.1 Octaves)

## FUNCTION SWITCH

IN/OUT switch	Relay controlled hard-wire bypass
KEY LISTEN switch	Premonitoring of the Key Filter

## INDICATORS

SUPPRESSION LEDs	Filter depth (3, 6, 12, 24 dB)
LED indicator for each function switch	

## POWER SUPPLY

Mains Voltages	100-120/200-240 VAC 50-60 Hz
Power Consumption	10 Watts
Fuse	315 mA (100-120 V); 160 mA (200-240 V) slow-blow
Mains Connection	Standard IEC receptacle

## PHYSICAL

Dimension	1 3/4" (44.5 mm)H * 19" (482.6 mm) * 8.5" (217 mm)
Net Weight	3 kg
Shipping Weight	4.3 kg