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**● NORMAL ● BOOST**    **BASS**    **MIDDLE**    **TREBLE**    **● NORMAL ● BOOST**    **PRESENCE**

**BRIGHT**    **CRUNCH**    4 5 6    4 5 6    4 5 6    4 5 6    4 5 6    4 5 6    4 5 6    4 5 6    **BOOST**    **POWER**

**NORMAL**    **CLEAN**    3 2 1    3 2 1    3 2 1    3 2 1    3 2 1    3 2 1    3 2 1    3 2 1    **NORMAL**    **SUPER OVERDRIVE**    **NORMAL**    **POWER**

0 10    0 10    0 10    0 10    0 10    0 10    0 10    0 10    0 10    0 10    **BOOST**    **POWER**

———— **PREAMP** ————    ———— **MASTER** ————

**BST100 V2 SUPER OVERDRIVE MANUAL**

# BST100 V2 SUPER OVERDRIVE GUITAR AMPLIFIER



Congratulations on choosing our new **BST100 V2 Super Overdrive Guitar Amplifier!**

This plugin faithfully reproduces the behavior and character of a famous '90s snake skin guitar amplifier, defining an era of modern high gain. The *BST100 V2* features two independent preamps, Normal and Boost, powered by four 12AX7/7025 virtual tubes, with individual preamp gain controls and separate master volume controls for each.

We've expanded the capabilities of the original hardware, leveraging the versatility of the digital world to introduce new features for unparalleled control over your tone. These enhancements include:

- 6 carefully selected cabinet emulations
- 4 of the best microphone emulations used in real recording sessions
- Selectable microphone positions with volume and pan controls
- A noise gate and clean circuit
- A powerful impulse loader to load your favorite IRs

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## FRONT PANEL



The front panel of the BST100 V2 Guitar Amplifier plugin features the main controls:

- 1 - Bright Switch:** This switch adds sparkling highs to the Normal channel, enhancing its versatility.
- 2 - Clean/Crunch Switch:**
  - In the Clean position, the gain is reduced, delivering a full, clean, and undistorted warmth that is incredibly responsive and dynamic.
  - When switched to Crunch, the Normal channel offers higher gain and produces a tough, metal-edged crunch.
- 3 - Normal:** This control adjusts the level of the Normal preamp.
- 4 - Boost:** This knob controls the overdrive level of the preamp.
- 5 - Tone Stack:** Comprising bass, mid, and treble controls, these adjust the gain at fixed ranges within the frequency spectrum, affecting both channels.
- 6 - Normal Master:** This is the master volume control for the Normal channel.

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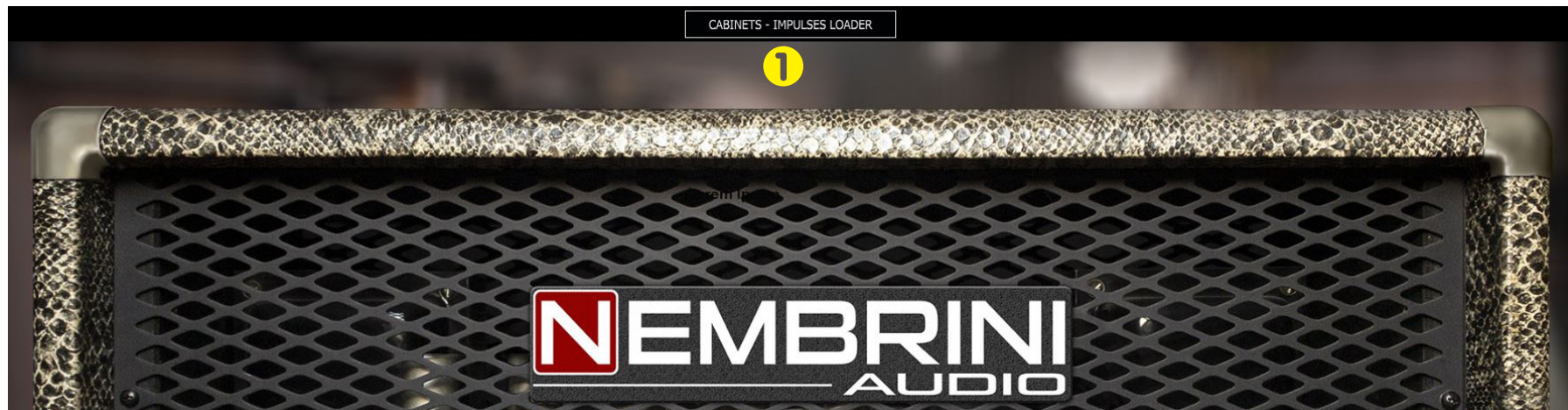
**7 - Boost Master** : This control acts as the master volume for the Boost channel.

**8 - Presence** : Functions as an overall tone control, shaping the high-frequency response and adding clarity and definition to the amplifier's output.

**9 - Power on/off and Channels Switch** :

*Power on/off* - bypass the plugin to compare your processed and unprocessed signal

*Channels* - This switch toggles between the normal channel and the boost super overdrive channel



**1 - Cabinet - Impulse Loader button**: opens and closes the Cabinet - Impulse Loader panel

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## CABINET - IMPULSE LOADER PANEL



**1 - Recording Chain Mode:** This control features three buttons that allow you to switch between the included cabinet/recording chain emulation, the Impulse Loader, and a complete bypass of the entire cabinet/recording chain emulation. Regardless of the mode selected, the Filters (2), Noise Gate (3), and Levels (4) sections remain active across all three Cabinet Modes.

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**1- Filters:** This section is designed to shape your tone by filtering specific frequency ranges:

- **Tight:** Reduces low-frequency content to tighten the low range, ideal for 7/8 string guitars.
- **Rumbling:** Cuts low-frequency content to reduce boominess.
- **Harsh:** Reduces high-frequency content to soften overly bright tones.

**2 - Noise Gate:** This feature helps eliminate noise associated with high gain settings:

- **Power (red LED):** Activates the Noise Gate.
- **Threshold:** Sets the noise level at which the gate activates.
- **Range:** Controls the amount of noise reduction.
- **Gate:** Adjusts the speed of the noise gate's closing.

**3 - Levels:** Manage the signal level entering and exiting the plugin:

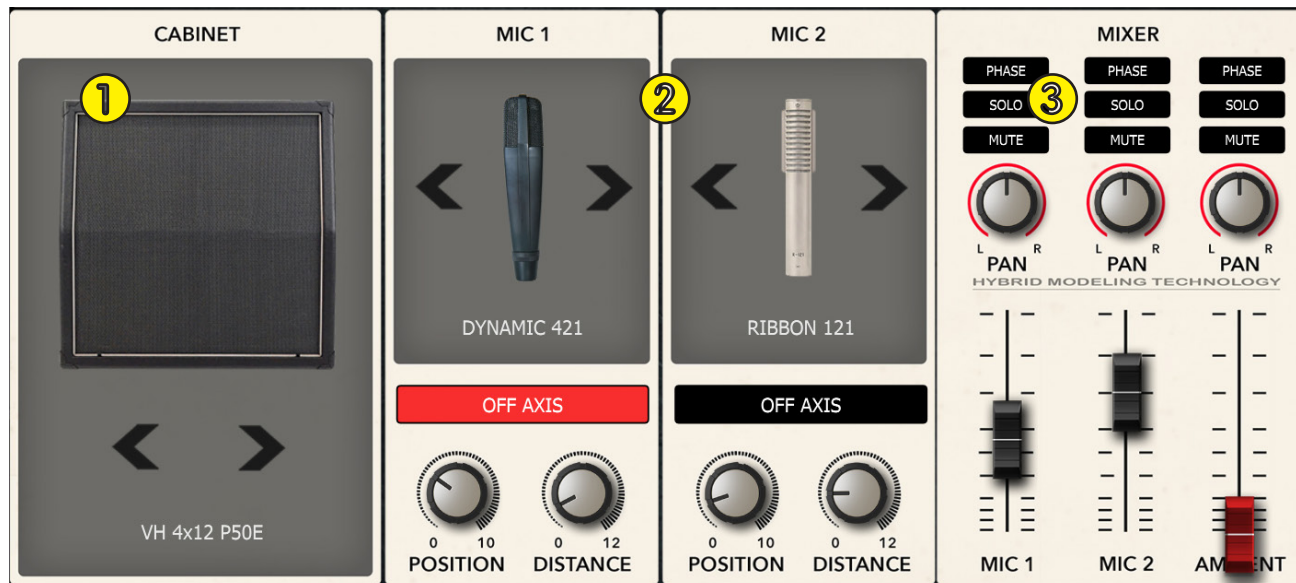
- **Input:** Adjusts the input level from minus infinity to +12dB.
- **Output:** Adjusts the output level from minus infinity to +12dB.

**4 - Fix Button:** Ensures your input level remains consistent across preset changes.

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## CABINET MODE



**1 - Cabinet:** you can choose between six selected cabinet emulation

- 1- SLD 4x12 LEGEND: Based on Soldano\* 412B 4x12 cabinet with Eminence\* Legend V12 speakers
- 2- MRH 4x12 G12 : based on Marshall\* 1960B 4x12 with Celestion G12T-25W speakers
- 3- MB RECT 4x12 V30: based on Mesa Rectifier\* 4x12 with Celestion Vintage 30 speakers
- 4- ORANGE 4x12 V30: based on Orange\* 4x12 with Celestion Vintage 30 speakers
- 5- BG 2x12 V30: based on Bogner\* 2x12 Celestion Vintage 30 speakers
- 6-TWEED 4x10 P10Q: based on Fender\* Tweed Bassman 4x10 Jensen P10Q speakers
- 7- VH 4x12 P50E: based on VHT\* 412S 4x12 with Eminence\* P50E speakers.
- 8- HK 2x12 V30: based on Hughes and Kettner\* TM 212 with Celestion\* Vintage 30 speakers.

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**2 - Mic 1 and Mic 2 settings:** This feature allows you to simulate the use of two virtual microphones for your amplifier's recording chain. It provides the flexibility to:

- *Choose from eight different microphone models*, enabling a range of tonal characteristics.
- *Select the microphone's orientation* with options for On-Axis or Off-Axis positions, affecting the color and intensity of the captured sound.
- *Adjust the Position and Distance* of each microphone relative to the speaker, offering control over the depth and spatial effects in your recordings.

The emulated microphone are:

- 1 - Dynamic 57: based on popular Shure\* SM-57 dynamic microphone
- 2 - Ribbon 121: based on modern Royer\* Labs R-121 ribbon microphone
- 3 - Condenser 414: based on classic AKG\* C 414 condenser microphone
- 4 - Dynamic 421: based on vintage Sennheiser\* MD-421 dynamic microphone

**3 - Mixer:** This 3 faders controls the volume of the 2 microphones in front of the guitar cabinet and the stereo ambience microphones.

Each channel have a pan control for stereo positions, solo, mute and phase inversion switch.



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## IMPULSES MODE

The screenshot shows the 'IMPULSES MODE' interface. It consists of three stacked sections, each representing a different impulse response (IR). Each section has a set of buttons: 'EMPTY', 'BROWSER', and 'LOAD'. To the right of these buttons is a 'PHASE' knob, a 'SOLO' button, and a 'MUTE' button. Further right is a 'PAN' knob with 'L' and 'R' indicators. A red circle with the number '4' highlights the 'PHASE' knob in the top section. To the right of the three sections is a large waveform display with a red line representing the impulse response. A red circle with the number '5' highlights the peak of the waveform. The interface is designed to be user-friendly and intuitive, with clear labels and a consistent layout.

The BST100 V2 Impulses Loader let you load up to three 3rd-parties impulse responses and blend them together. The following settings are available for each of the three loaded IRs:

- 1 - Empty button:** unload the current IR
- 2 - Browse button:** open an explorer window that permit you to select a folder and show you the contained wav files in the adjacent display (5).
- 3 - Load button:** open an explorer window that permit you to load your favorite impulse response.

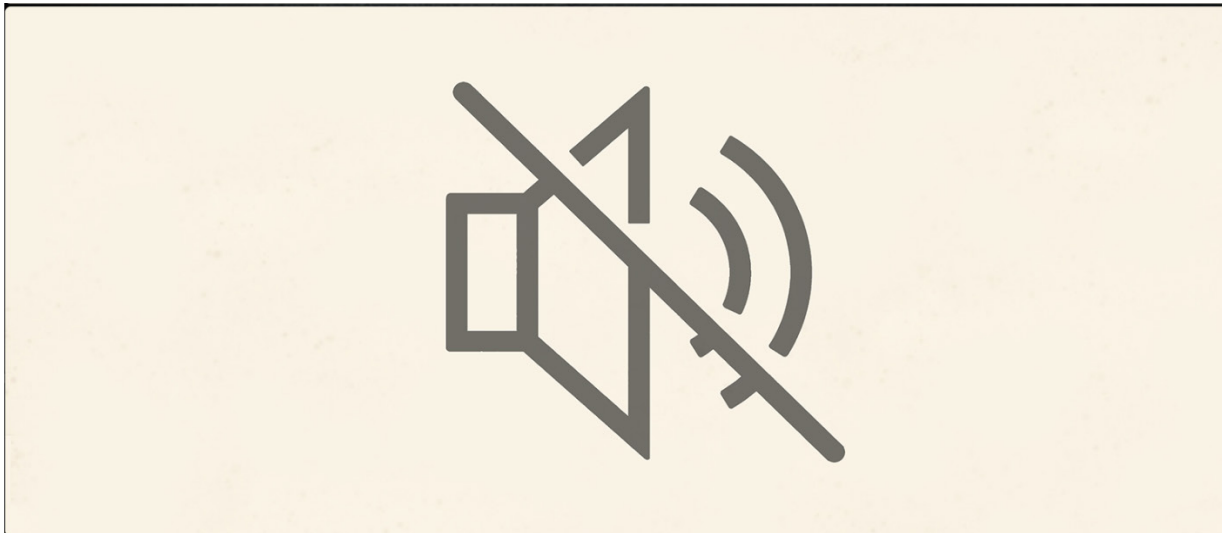
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**4 - IR controls:** you can change the volume, pan, phase of each IR and Solo or Mute it

**5 - Browse/Preview display:** in this display you can browse your favorite IRs or view a preview of the resulting waveform

## BYPASS MODE



In this mode the whole cabinet / recording chain section and impulses loader are completely bypassed, letting you use your favorite impulse loader or your real power amplifier and speakers system with the BST100 V2 Guitar Amplifier

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## THE TOOLBARS



### Top Toolbar

- 1 - Open the manual and the information about the plugin.
- 2 - + and - buttons allow you to scroll through the presets.
- 3 - Undo/Redo changes made to the parameters of the plugin at any time.
- 4 - With A/B banks, it is possible to compare two different settings in an easy way. It is also possible to compare pre sets by loading them in the two different A/B banks. The red highlight will show the currently selected bank and what you will modify/save.
- 5 - Copy the settings from a bank to another, so you can make slight changes to the controls and compare the two settings for example.

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- 1 - Shows you the active preset. Click on the label to see the preset list.
- 2 - Allow you to override the current selected preset.
- 3 - Save the current selected preset as a new preset with a name of your choice.
- 4 - Delete the selected preset.
- 5 - Bypass the plugin in order to compare your processed and unprocessed signal.

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