Taurus Amplification

SH7 APOGEE Plus
Stomp-Head

GUITAR AMPLIFIER OWNER'S MANUAL

Custom
EDITION

DESIGNED BY MUSICIANS FOR MUSICIANS

Powerful Guitar Amplifier
in stompbox shape

The Stomp-Head is an ultra light, very compact floor amplifier with integrated footswitches, designed to be set on the pedalboard along with effects or independently placed directly on the stage floor.

A pedal-board amplifier provides a complete ready-to-use sound system.
Simply connect your speaker cabinet, guitar and power source, and the system is ready to go.

The Stomp-Head is based on an MTD (Master Tube Design) technology. It is our own groundbreaking technology which allows us to create powerful guitar amplifiers in a very compact shape. This technology uses all the significant features of tubes which determine the classic sound of guitar amps. We offer players a fully analog amplifier, extremely light weight, in a very compact dimension along with a noble and powerful sound. The sound characteristics and power of our MASTER TUBE based amplifiers are equal to the classic tube amps with the same power rating.

The amplifier set up on a pedal-board:
What are the benefits?

- There is no need for additional foot-switches to control the Stomp-Heads functions, because they are all integrated into our compact amplifier. However, if needed, our amp is also equipped with the option of controlling all its features via an external controller

- There is no need for large amounts of long and heavy cable runs to connect effect loops or amplifier switchers. As a result, when all external wiring of the amp controller and FX Loop is eliminated, the whole guitar sound system is extremely compact and light.

- Connecting wires between the amplifier and the effects are much shorter than in traditional set-ups, therefore problems related to loss of signal quality are reduce (much less humming and interference).

- Much less humming and interference noises due to very short connections

- Set up is extremely easy and takes just seconds. All you need to do is connect the speaker cabinet, plug the power cable into the pedalboard, and hook up your guitar. Three external wires - that's all.

- All the controls to precisely adjust the sound of the amp or effects are in plain view on the pedalboard right in front of the guitarist. Therefore, immediate adjustments can be done at any time, without lag.

- The sound of your guitar can be precisely set at the exact spot on stage where you play.

- Stomp-Head offers a whole range of on-board sounds as a CLEAN, CRUNCH, DRIVE and BOOST function. This eliminates the need for these extra effects on your pedalboard, and creates more space for your other stompboxes.

Front panel

(1) - Power Range Selector
(2) - SERVO control
(3) - SERVO GAIN switch
(4) - REVERB control and LED ON indicator
(5) - NOSE GATE indicator
(6) - NOSE GATE on/off switch
(7) - NOSE GAIN LEVEL adjustment
(8) - CRUNCH control activated by footswitch
(9) - CRUNCH LED indicator on/off
(10) - HIGH GAIN control for DRIVE channel

(11) - BASS control
(12) - MIDDLE control
(13) - MID-RANGE switch
(14) - TREBLE control
(15) - PRESENCE control
(16) - VOLUME control
(17) - LED indicator / LEAD-channel ON
(18) - LED indicator / CLEAN- channel ON
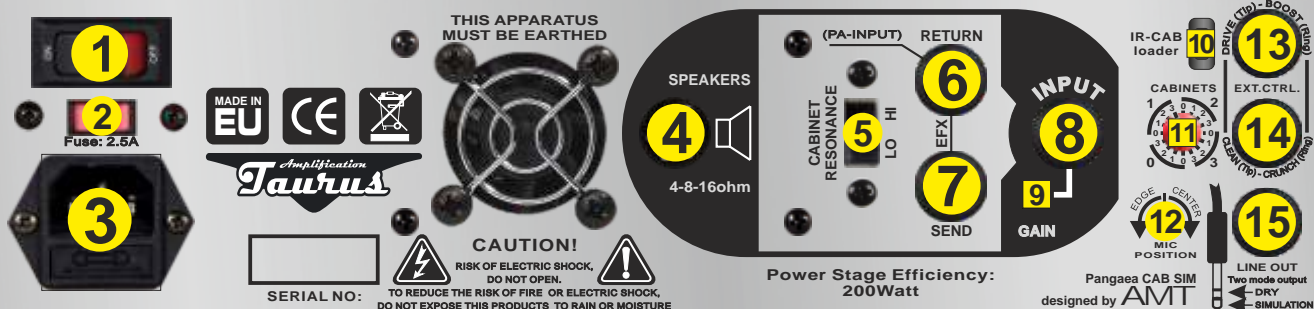**(19)** - BOOST control
(20) - MUTE switch

Footswitches

Marked in colours sections are active when the paricular switches are turned on.

REVERB, CLEAN section, CRUNCH section, DRIVE section, BOOST

Rear panel

(1) - POWER on/off switch
(2) - Voltage selector 230V/120V
(3) - AC POWER input
(4) - Speakers output / impedance: 4-8-16ohm [auto detect. impedance]
(5) - CABINET RESONANCE feedback switch control, extending range of low and high frequency.
(6) - RETURN connection for effect loop
(7) - SEND connection for effect loop
(8) - INPUT
(9) - INPUT GAIN boost +6dB
(10) - USB connection for IR files transfer
(11) - 16-position CAB SIM selector
(12) - Microphone position of IR CAB simulation
(13) - EXTERNAL CONTROLLER input for DRIVE and BOOST
(14) - EXTERNAL CONTROLLER input for CLEAN and CRUNCH
(15) - Two channel LINE OUTPUT with and without speaker simulation

External connections

To control CLEAN, CRUNCH and DRIVE you can use momentary (pulse) or bistable (on/off) switches. For BOOST you need to use bistable (on/off) switch.
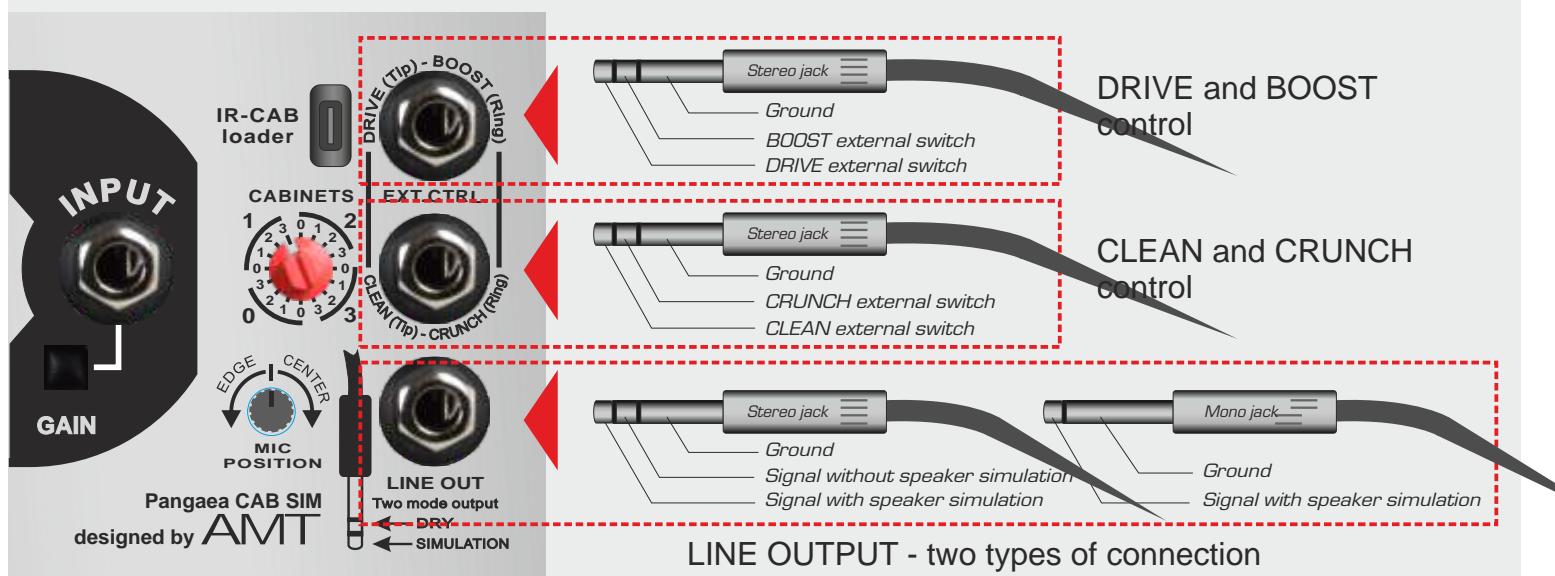
External connections

The external effects may be connected between both preamps (CLEAN and LEAD) and the MASTER section through the parallel EFFECT LOOP. This type of connection is recommended when the Volume pedal or Delay, Reverb, Flanger type of effects are used. When the mixer or the external amplifier is connected, the LINE-OUTPUT with integrated cabinet simulator must be used. Signal from Line-out can be lead in different ways: with simulation, without simulation or both.

OUT   IN   OUT   IN

Effects pedals

If you need more GAIN at preamp section, push this button.
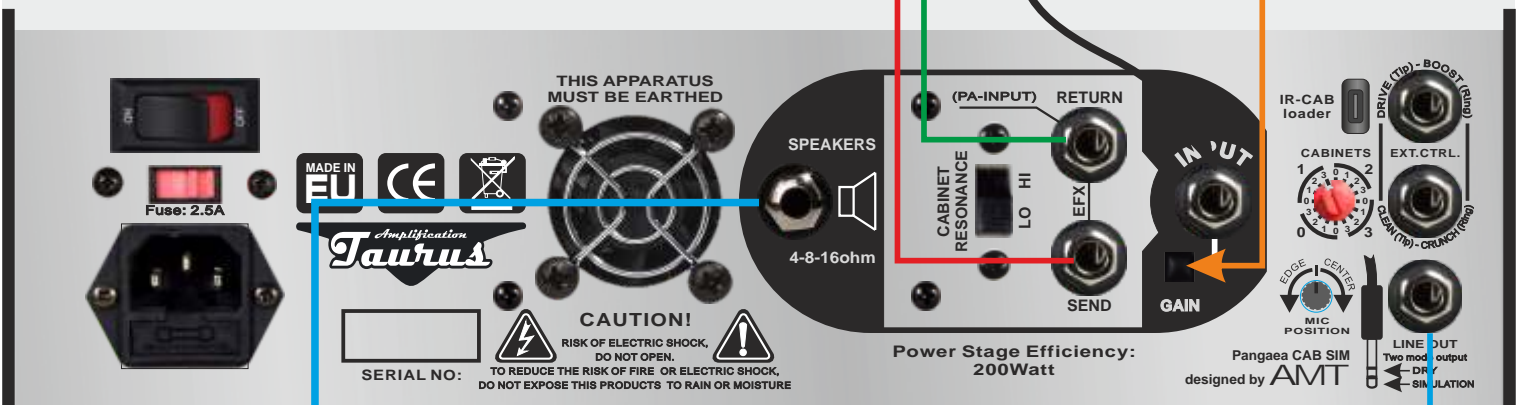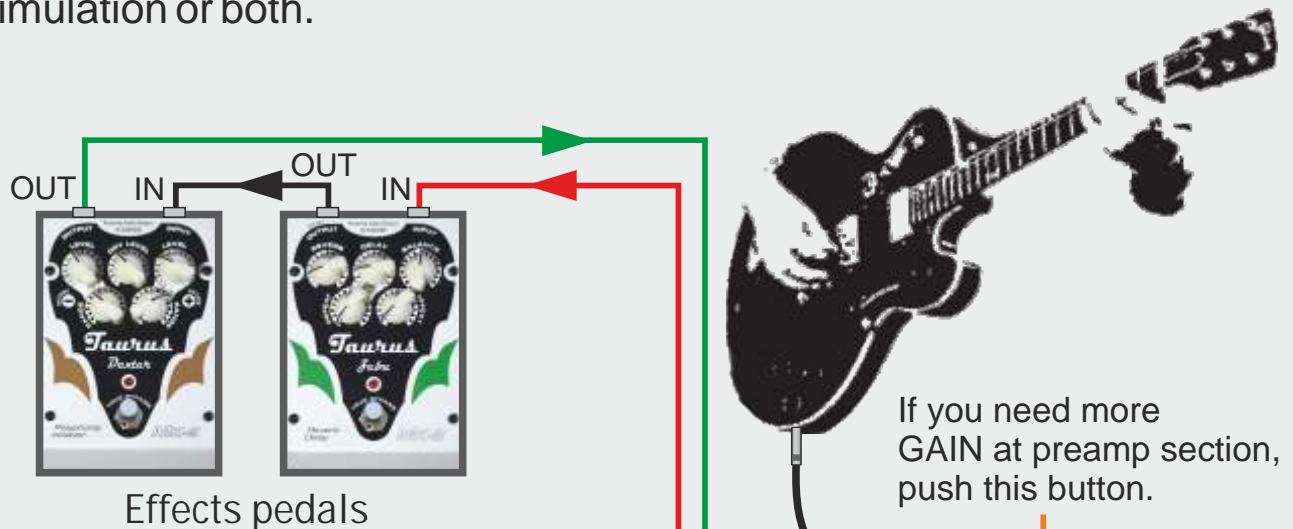
IR-CAB similation module.
Useful tool if you want to send signal from LINE OUT to PA system or mixer.
Using this module you can set following options:
- speaker type
- cabinet cubature
- microphone position.

IR CAB Simulation

If you want to record your guitar or use the amplifier as a pre-amp without a cabinet then you have a special tool on board - an advanced loudspeaker simulator with IR louder. It is possible to save 16 IR files of speaker simulation through the USB port.

A simulation of the microphone position is also available and provides additional possibilities of equalizing the colour of your sound at the line output. Thanks to this solution you can get closer to the sound conditions of a classic set of speakers with a microphone setup.You get the right placement and sound of the instrument in the band's mix by transmitting the signal from the line output without using the speaker. All this is done in an analog way, very simple and intuitive, without the use other additional processors. The line output has two signals paths, with or without simulation. This feature also allows you to connect an external loudspeaker simulator. So you can use the built-in simulation, external simulation or both of them at once.

How to transfer IR files.
1. Download and install the IR converter on your computer.
   The program allows you to convert files of various formats to the IR Sh7 format.
2. Download and install the file for editing and saving files.
   The program allows you to save and transfer files to the amplifier as well as edit the sound or create your own speaker profiles to define the sound on line output.
   CAB SIM has 16 factory profiles that can be edited or loaded your own.

To load your own files, first convert them in the file converter installed on your computer as
   follows:
1. Start the IR converter program
2. Click "select source IR files" and select the files to convert.
3. Click "select destination folder" and select a folder to save files in the new format
4. Make the conversion by clicking on "Start conversion".

To load the prepared pulses, connect the SH7 to the computer with the MINI-USB / USB cable without turning on the amplifier's power.

Then the SH7 loader will be visible on computer screen as an external drive to which the previously prepared IR files should be transferred.

The memory bank architecture is set as follows: there are four banks (0,1,2,3).

Each of them may contain four files marked on the selector (0,1,2,3).

After loading the files, turn on the amplifier. Then start to use the loaded files by choose them with the selector located on the back panel.

Each of the files can also be edited and saved using the IR pulse editing program: AMT Pangea CP PA. The timbre of the sound can be easily adjusted live with the MIC POSITION knob.

Download files with software from the website: www.taurusamps.pl/sh7-download

MICROPHONE POSITION   16-position CAB SIM selector   USB for files transfer
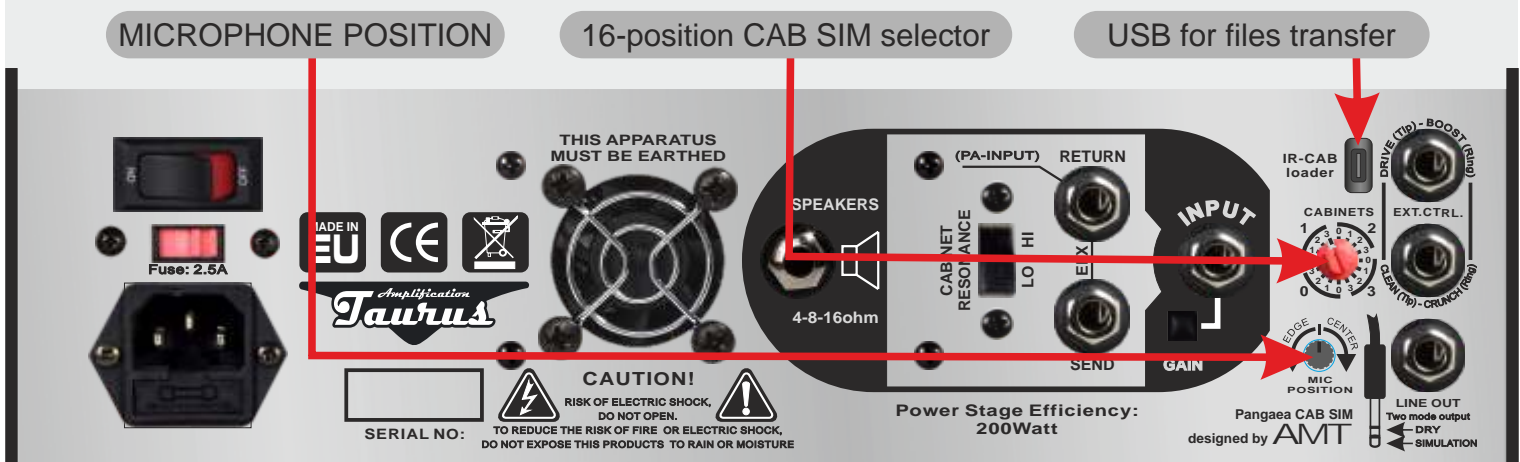
SERVO plays the role of some kind of "soul post" of the amplifier and enriches the sound in a magical way. Servo perfectly complements clean sounds, especially making the sound of single coil pickups much richer.

It makes the sound very vivid and saturated and gives the feeling of playing on much higher quality instrument. The SERVO saturates the sound of the instrument by adding the qualities which make playing more enjoyable and, more importantly, more inspiring. Additionally, the guitar sound is very well set in the band's overall mix.

The SERVO complements the features playing and gigging guitarists need the most to achieve full comfort.
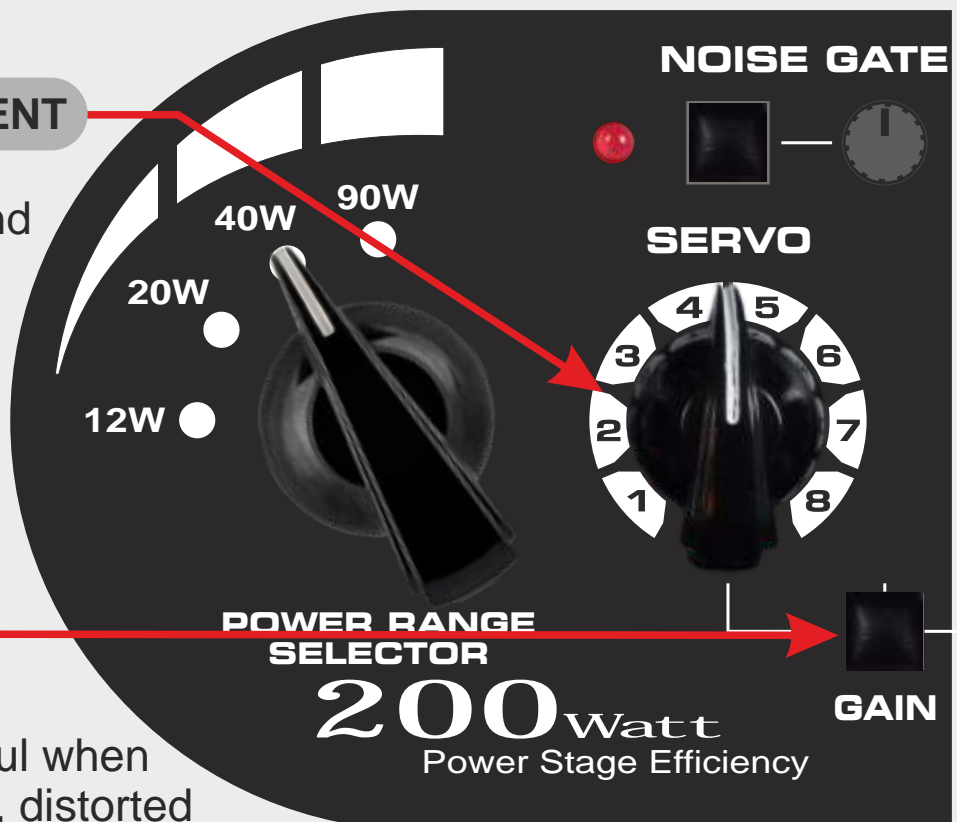
The unit generates harmonics which significantly enrich the sound of the instrument and greatly complements the sound. Suddenly, guitarists will discover tones which were absent in their sound, and now begin to flow freely, becoming so friendly and inspirational.

SERVO GAIN ADJUSTMENT

Gradually increases sound saturation.
If the knob is set on minimum then the SERVO is not active.

NOISE GATE

SERVO

4 5
3 6
2 7
1 8

90W
40W
20W
12W

POWER RANGE SELECTOR

200 Watt
Power Stage Efficiency

SERVO GAIN BOOST

GAIN

This function is very useful when reaching a very deep, fat, distorted sound is needed.

TONE CONTROLS

Each channel is equipped with a standard 4-point equalizer: BASS, MIDDLE, TREBLE and PRESENCE. The MID-RANGE switch sweeps the frequency of the MIDDLE potentiometer. This option is very useful in the proper setting of the guitar's sound in an overall band's mix depending on the style of music played and type of guitar used. Additionally, the highest frequency range of the guitar can be altered by the BRIGHT/DARK switch.
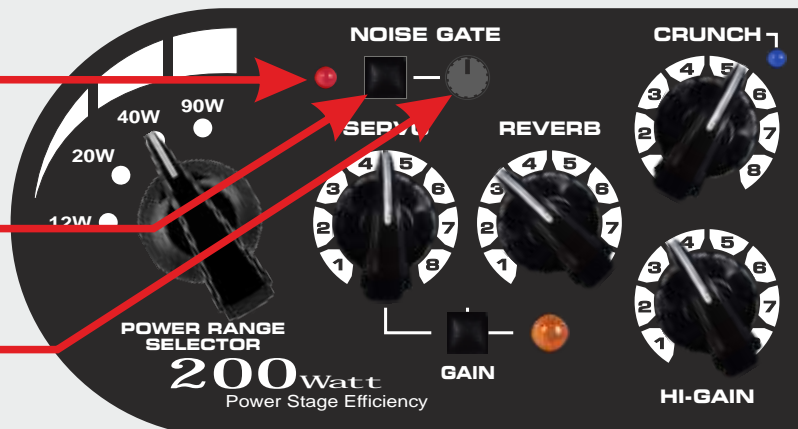

NOISE GATE

NOISE GATE is a very useful in conditions when you have to take care of minimize interference that often occurs on the stage and are picked up by sensitive guitar pickups.

OPERATION LED INDICATOR

(This LED lit if signal is gated)
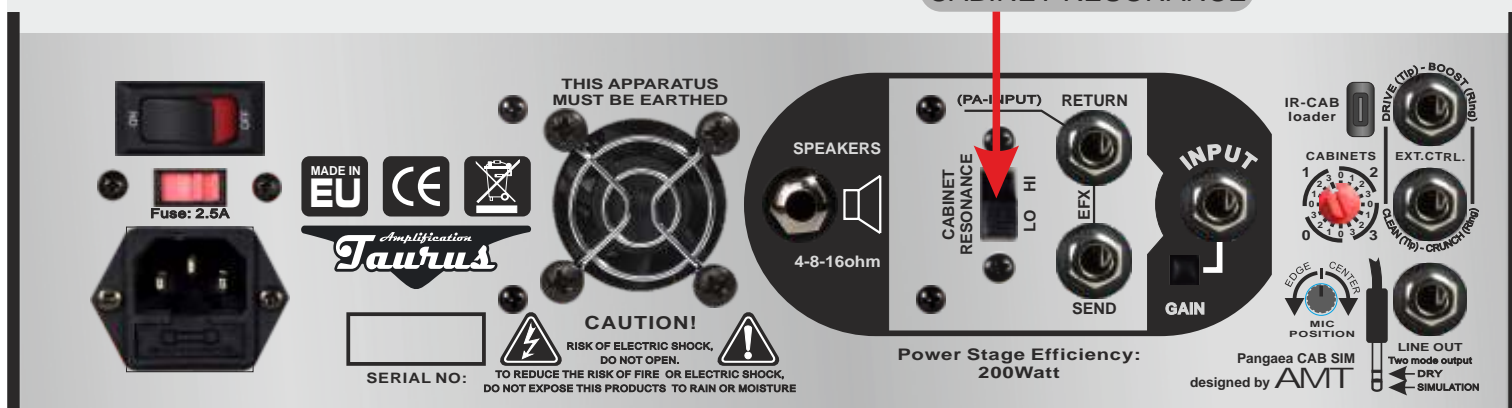
NOISE GATE ON/OFF

LEVEL ADJUSTMENT

RESONANCE

The resonance switch increases the sound in the resonance range of the loudspeaker. This function is available only when a cabinet is connected to the amplifier. The level of resonance gained depends on the speaker cabinet's properties, size, impedance and type of speaker.
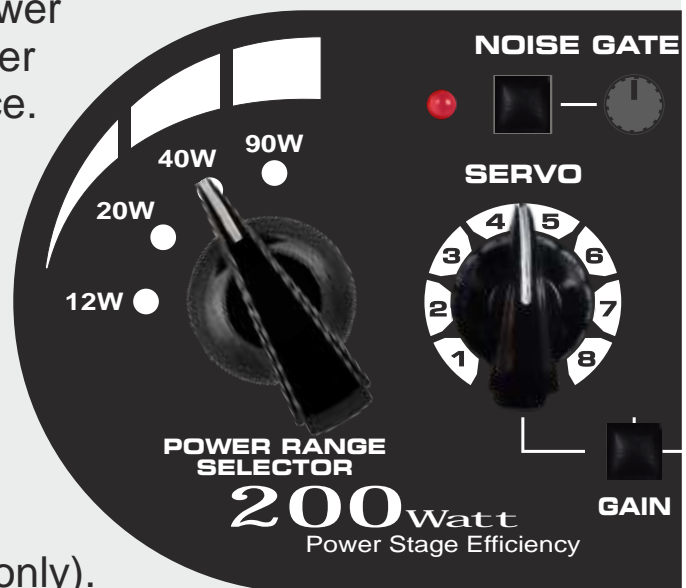
CABINET RESONANCE

POWER SELECTOR

The amplifier is equipped with a 4-way power output selector. It allows you to use speaker cabinets of any size, power and impedance. The following power options are available:
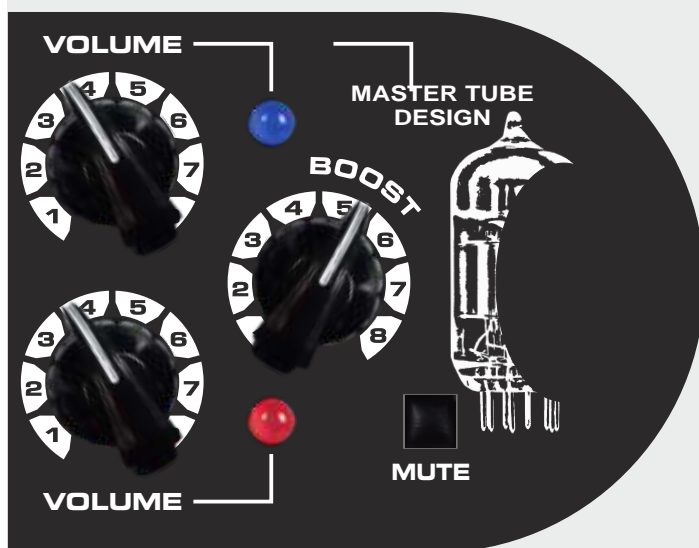
12W, 20W, 40W and 90Wat.

The amplifier automatically adjusts its operating parameters and can serve 4, 8 and 16 Ohm cabinets.
The amp can also be used without a speaker cabinet. If so, the power amp is automatically locked (LINE OUT is active only).

NOISE GATE

SERVO

POWER RANGE SELECTOR

200 Watt
Power Stage Efficiency

GAIN

BOOST MODE

VOLUME

MASTER TUBE DESIGN

BOOST

MUTE

VOLUME

The BOOST MODE allows for instant increase of volume level during a performance. The potentiometer and a foot-switch BOOST are designed to control the BOOST MODE. The BOOST function performs two features at the same time: it boosts a signal at the input of the preamp, giving extra compression and raising the volume. Desired volume level may be adjusted by tweaking the potentiometer. By then pressing the BOOST switch located on the top of the amp, two different volume levels previously set will be obtained. The BOOST MODE is quite beneficial as it heightens the guitar solo during a live performances.

TUBES

Optimal operating parameters of tubes 12AX7 are set during amp's manufacturing process. The characteristics of each tube in the amplifier is individually tuned at MTD system (Master Tube Design), to achieve the best performance possible. It is not recommended to replace the tubes. Replacing working tubes with some other brand will not improve the sound. The 12Ax7 are already tuned to perform at maximum capability. Only broken tubes should be replaced. The tubes in MTD technology works in perfectly designed environment which allows them to have very long life span. If not mechanically damaged there is no reason to change them for years

Specifications

- **Power stage efficiency:** 200Watt
- **Power output selector:** 90W, 40W, 20W, 12W
- **Speakers impedance auto detection:** 4,8 and 16ohm
- **Tubes:** 12AX72

- **Channels:** CLEAN+CRUNCH and LEAD
- **Footswitches:** CLEAN, CRUNCH, DRIVE, REVERB, BOOST

- **CHANNEL controls** (CLEAN & LEAD)**:**
  GAIN, BASS, MIDDLE, MID-RANGE switch, TREBLE, PRESENCE, VOLUME

- **MASTER controls:**
  SERVO – analog enhancer level with SERVO GAIN switch
  BOOST - access to set two different volume levels
  REVERB
  NOISE GATE

- **INPUT GAIN boost** (switch +6dB)
- **MUTE**
- **RESONANCE** – switch increasing the sound in the resonance range of the loudspeaker

- **Serial EFFECT LOOP**
- **LINE OUTPUT** with Speaker Simulation. Allows send linear signal with simulation (PIN) or without simulation (RING) or both simultaneously
- **EXTERNAL CONTROLLER INPUT** for channel selector and BOOST
- **Voltage selector** 230V/50Hz or 115V/60Hz

- **Dimensions:** (H x W x D) 90 x 330 x 205 mm
- **Weight:** 2,65kg

Made in Poland

Precautions

- ☐ Amplifier produces high volume levels. Staying in places of high volume levels could cause permanent hearing loss.
- ☐ Do not use the amplifier in humid and dusty places.
- ☐ Do not operate the amplifier through the unearthed socket.
- ☐ Do not leave the amplifier in the vicinity of children.
- ☐ Do not use the amplifier with broken power outlet or improper power cord.
- ☐ Do not install nor use the amplifier near any heat sources, in case of overheating the amplifier turns off and will return to work after cooling the unit.
- ☐ Do not cover the vent holes!
- ☐ In order to ensure proper air circulation, do not block any of the ventilation openings.
- ☐ Never put any liquid containers near the amplifier.
- ☐ In case of any objects or liquid access inside the amplifier, urgently switch the apparatus off and unplug the power supply cord.
- ☐ Protect the amplifier from any strikes.
- ☐ ATTENTION: To reduce the risk of electrical shock, do not remove the back cover of the amplifier. Inside parts can be repaired only by qualified service personnel.
- ☐ WARNING: To prevent the risk of electrical shock do not expose this appliance to moisture, rain or any liquid.

Disposal of old Electrical & Electronic Equipment (Applicable throughout the European Union and other European countries with separate collection programs)
This symbol, found on your product or on its packaging, indicates that this product should not be treated as household waste when you wish to dispose of it. Instead, it should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate disposal of this product. The recycling of materials will help to conserve natural resources. For more detailed information about the recycling of this product, please contact your local city office, household waste disposal service or the retail store where you purchased this product.

DESIGNED BY MUSICIANS FOR MUSICIANS

Amplification **Taurus**

www.taurus-amp.pl

CE

RoHS