

USA Tube Audio - RC-35

Vacuum Tube - Stereo Room Correction

The RC-35 Experience

The RC-35 room correction machine is 100% in the analog domain. The RC-35 will allow you to control and dial in, the best possible performance. All listening rooms have inherent defects, bass boom, midrange too bright, highs missing. Whatever the defect, the RC-35 will correct the issue.

Have favorite CD's, electronic music files that simply do not sound good? Now, you can use the RC-35 to fix the anomaly, allowing you to enjoy music recorded in the day when recording technology was poor, or the recording engineer did a poor job. This happens all the time.

The RC-35 comes from a long lineage of Professional Equipment used in recording studios globally. Satisfying the discerning requirements of musicians and recording engineers, now this same process is available to 2 channel, high end audio.

Each RC-35 is hand-built, individually tested, no corners are cut. Only Top components make up the RC-35.

2 year warranty - 90 days vacuum tubes. Original purchaser.

Award Winning - Axpona 2018 the Editors Award - Positive Feedback: The Audio Oasis award.



The USA Tube Audio RC-35

The most common statement from 2 channel clients, mixing and mastering engineers who use the RC-35?

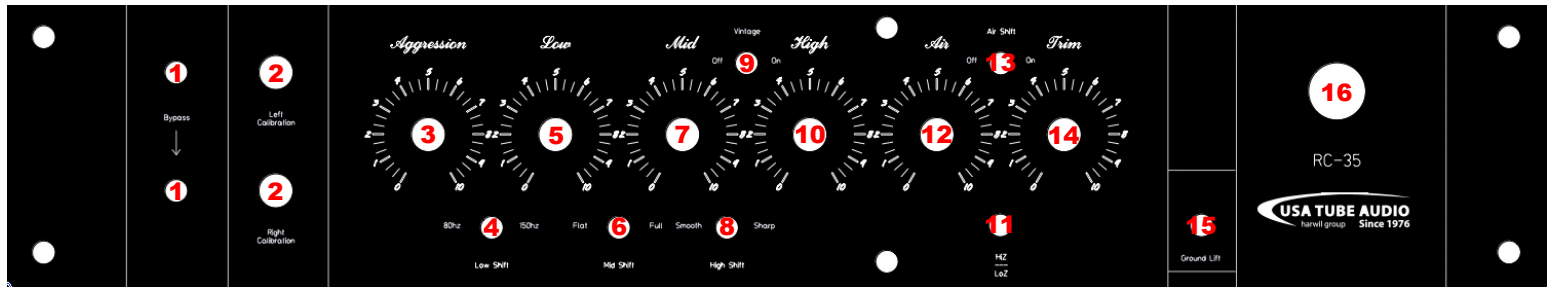
*“I literally feel like I’m on cloud 9 when I use this thing,
because it should not be this easy to get my music sounding so good!”*

Not aimed at precisely targeting certain frequencies, it is intended to be a broad strokes room correction device that also acts as a harmonics generator. A very special machine for the home or recording studio.

The RC-35 is a discrete, Pure Class A Triode, vacuum tube, stereo unit.

OPERATING YOUR RC-35:

- The BYPASS switches allow the user to completely disengage the RC-35 at any time in order to properly A/B a mix (true bypass).
- The TRIM control allows the user to precisely match the volume coming from the RC-35 to any desired level, without altering the tone of the unit.
- Left and Right CALIBRATION is used to gain match the Left and Right signals, accounting for any volume discrepancies encountered. Interestingly enough, these calibration controls can also be used to alter the tonal response of the RC-35 if so desired. For example, it is possible to bring the Calibration volumes up and the Trim down, resulting in the RC-35 driving the signal harder than normal, increasing harmonic content.
- The AGGRESSION control alters the drive in the circuit, allowing you to push the tubes for extra saturation.
- The LOW, MID, and HIGH controls manipulate the three bands, but in a way that adds more dynamic, harmonic content the higher the RC-35 is set. Take note that the Mid control covers a massive amount of territory while the Low and High controls are narrower by comparison.
- The AIR control boosts the ultra high frequencies and is typically a favorite control in this unit.
- LOW SHIFT alters the response of the Low control, moving the low shelf from 150hz to 80hz
- MID SHIFT alters the response of the Low and Mid controls, essentially assigning the low mids to either control.
- HIGH SHIFT changes the curve of the High shelf.
- AIR SHIFT changes the curve of the Air shelf.
- The VINTAGE switch toggles between a “modern” mode (think more hifi and quick), and a “vintage” mode (darker, older sounding).



Front Panel Controls

1. The Bypass switches are true bypass, meaning, they literally remove the RC-35 from the signal chain completely.
2. The Calibration controls allow you to fine tune the left and right channels in order to achieve a proper balance in the stereo image. As well, the Calibration controls function as gain controls, and as such, can be driven hard for a more aggressive tone.*
3. The Aggression control allows the entire circuit to change its overall feel and sound. At 0% you will hear the RC-35 at it's most neutral and 100% is the most aggressive.
4. The Low Shift switch allows you to change the rolloff of the Low shelf control.
5. The Low control is actually a shelf control controlling the low frequencies.
6. The Mid Shift switch alters the response of the Mid control, affecting primarily the low mids range of the signal.
7. The Mid control covers the range between the Low and High controls.
8. The High Shift moves the high shelf by roughly 1k.
9. Vintage mode offers a darker, more raw tone that can be very useful when full analog tone is desired.**
10. The High control is a shelf control controlling the higher frequencies.
11. This switch allows you to switch the output impedance of the RC-35 from high to low.
You will notice that switching between LoZ and HiZ will alter the overall sound of the RC-35 and will require a recalibration. HiZ has a very large interaction with other gear following the RC-35 and thus will sound different in various locations in your signal chain. LoZ will have lower overall color but will interact much less with other gear following the RC-35.
12. The Air control is another shelf that controls the ultra-high frequencies, and yes it overlaps the High control on purpose.***
13. Air Shift moves the Air band by roughly 1k
14. The Trim control allows you to set the output volume coming out of the RC-35.
15. If you are having a ground loop issue, flip this switch!
16. Press this button to turn on or off the RC-35.

**Take note that the Air control is greatly affected by the Calibration controls in that the harder you drive the Calibration, the less db swing you will see from the Air control*

***Do not be afraid to significantly boost the High and Air controls to compensate for the darkening of the signal.*

****Your RC-35 has been calibrated to give as neutral a tone as possible with your knobs in the noon (50%) position. You will notice that not all of the knobs run the full range from 0-100% - that is perfectly normal (a couple can be a slight bit offset). The RC-35 was designed to be sonically rich and harmonically complex, and that ended up meaning that not all of the controls lined up perfectly. Rather than altering the circuit to accommodate aesthetics, the decision was made to stick with what sounded best and just calibrate the knobs to be in the correct position.*

RC-35

calibrated to be sonically neutral with the Aggression control on the 0% position.

calibrated to be sonically neutral with the Trim control on the 100% position.

calibrated to be sonically neutral with the Bass Shift switch in the "150hz" position.

calibrated to be sonically neutral with the Mid Shift switch in the "Full" position.

calibrated to be sonically neutral In LoZ.

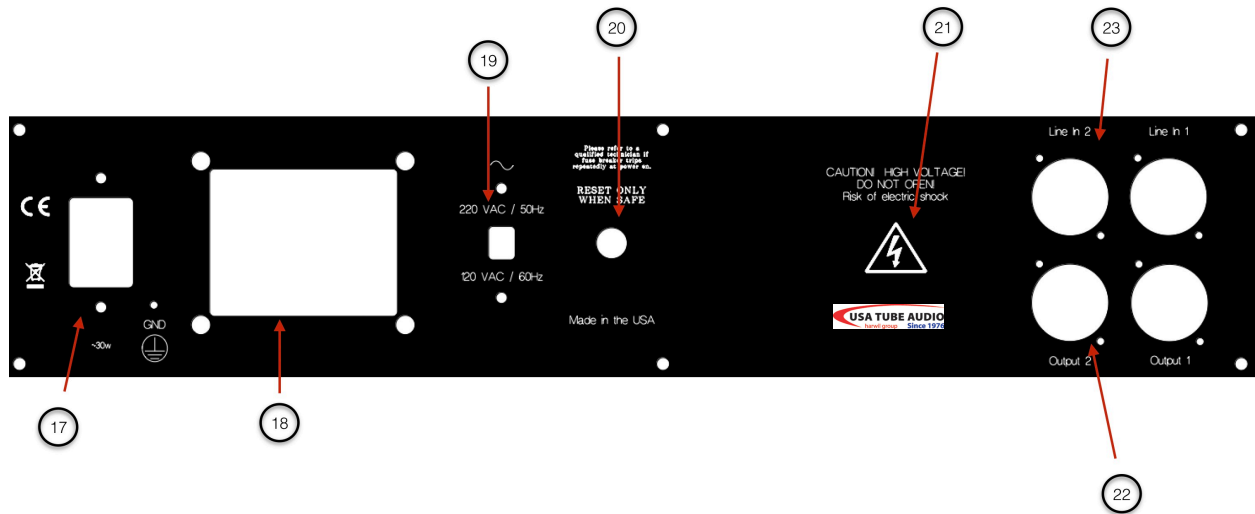
calibrated to be sonically neutral with the High Shift switch in the "Smooth" position.

calibrated to be sonically neutral with the Air Shift switch in the "On" position.

calibrated to be sonically neutral with the Vintage switch in the "Off" position.

You will notice that switching between LoZ and HiZ will alter the overall sound of the RC-35 and will require a recalibration. HiZ has a very large interaction with other gear following the RC-35 and thus will sound different in various locations in your signal chain. LoZ will have lower overall color but will interact much less with other gear following the RC-35.

Note that the RC-35 will be more transparent with a lower signal feeding it and more colored with a hotter signal feeding it.



Rear Panel Controls

17. AC Mains power inlet.
18. Our power transformers are all made in America, paper wound, and able to power up a full vintage guitar amplifier if desired, meaning this transformer will still be going strong for the next...well...century.
19. Switch the mains voltage from 110v to 220v (whatever your standard is)
20. The mains fuse is rated at .6A, and yes, it is a circuit breaker
21. Caution!!! The voltages present inside of your unit are as high as 450v! DO NOT OPEN THE RC-35.
22. Line level balanced output - XLR (Pin 1 = Ground, Pin 2 = Hot, Pin 3 = Cold)
23. Line level balanced input - XLR (Pin 1 = Ground, Pin 2 = Hot, Pin 3 = Cold)

Specifications

Circuit designed and built - USA Tube Audio - RC-35

Stereo Controls

Tubes: Three 12AX7's (ECC83)

Transformers: Jensen In and Out

Input Load Impedance: 10K Ohms

Output Impedance: LoZ or HiZ, Transformer Balanced

Maximum Output Level: +23 dBu

Frequency Response: 10hz-20Khz +/- 1dB

Signal to Noise: 108db, depending on output impedance setting

Power: 115v/220v

Dimensions:

3.5" (H) x 19" (W) x 10" (D)

sales@usatubeaudio.com

www.usatubeaudio.com - 1-800-676-1085 Ext 2

8355 E. Butherus Dr. Suite #1 - Scottsdale, Arizona 85260

