



THE POWERTRAIN STUDIO 20

User Guide

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Thank You!

We would first and foremost like to thank you for purchasing your powered monitor from ValveTrain Amplification. Your selection means a great deal to us.

Just so you know where we stand on things...

We are committed to providing the most discriminating guitarists in the universe the best possible products in amplification.

We build a limited portfolio of hand wired amplifiers based off the most sought after circuits in history using the best parts available.

Getting Started

There are several things you should know to get started with your new powered monitor.

- There are no user serviceable items inside the chassis of this powered monitor. For your own safety contact us directly, or take it to a qualified technician.
- ValveTrain Amplification is not responsible for your safety when using this device. We give you these basics to protect you and well as ourselves.
- Use Common Sense.
- Do not use the powered monitor, or leave it plugged in when it is exposed to liquids. (This includes rain, water, soft drinks and beer.)
- Do not change tubes or fuses without first unplugging the powered monitor.
- Use the correct replacement fuse in the event that it needs to be changed.
- Tubes can get extremely hot when the powered monitor is in use. Please keep your children away from them, along with anyone else. They will get severely burned if they come in contact with the tubes when the powered monitor is in operation or recently powered off.
- Do not use the powered monitor when it is near drapery, furnishings, paper or anything else flammable. The heat from the tubes may possibly cause them to ignite. Maintain at least 6 inches of space around the unit while it is in operation.
- Powered monitors by nature are intended to get loud. Respect your hearing and the hearing of others. Permanent damage may result.
- This powered monitor comes with a grounded power cord (3 prong). Do not alter this and always make sure the unit is connected to properly grounded power of the correct voltage. (United States 120VAC, Europe 240VAC)
- Never run the powered monitor without speaker(s) connected. You may cause major damage (not under warranty by the way) to the powered monitor.

We've tried to do our part, you do yours...

Don't take chances.

Operating the Powered Monitor

The control panel of the PowerTrain Studio 20 looks like this:



There is a single rotary control on the front of the active monitor.

This control can be used in 2 ways...

1. To control the overall output level of the monitor.
2. To control the interaction between the level of the signal source and the monitor. Because this is a tube driven monitor the output of the signal source may be set at a level high enough to introduce a pleasing slightly overdriven sound.

The power switch has 3 settings...

1. Off
2. Standby
3. On

The rear panel of the powered monitor looks like this.



There is a single speaker jack that is used for the internal speaker of the PowerTrain. The speaker may be disconnected and an external cabinet may be plugged into the jack.

There are 2 input jacks. The R (Mono) jack should be used first. This jack is used for any single feed application. If you wish to use a stereo signal in the PowerTrain you can connect both outputs of your signal source to the L and R input jacks.

Technical Info

Power Requirement:	120 or 240 Volts A.C. (Alternating Current) – Grounded Outlet
Power Output:	Approximately 20 Watts R.M.S.
Tuber Order:	Numbered 1 through 3 from RIGHT to LEFT as you look at the back of the powered monitor.
Preamp Tubes:	12AX7 – This tube is located in position 1. Acceptable Alternatives: 12AY7 5751 ECC83 (Equivalent to 12AX7)
Power Tubes:	6V6GT Duet These are located in positions 2 and 3.
Input Jacks:	There are 2 input jacks that will accept Mono or Stereo signals.
Speaker Load:	The total recommended load for the powered monitor is 8 Ohms. Do not run the amp with speaker loads above 16 Ohms or below 4 Ohms.
Speaker Outputs:	There is a single 8 ohm Speaker jacks located on the back panel of the chassis. Please use the correct speaker load for the monitor
Speakers:	Eminence Patriot Series Copperhead 10”

Warranty Information

Please be sure you understand the information on this page, we do our best, but we've got to have a few rules...

Our Limited Lifetime Warranty:

We stand behind our products. We warrant our workmanship to the original purchaser for the lifetime of the amp. In order to be covered under this warranty you **MUST** register the product with proof of purchase within 30 days.

The warranty covers labor for our workmanship to the original purchase for the life of the amp. Used amps are not covered. All components are covered for 30 days.

For warranty service, send us the amp and we'll fix it. You pay for the parts and the shipping costs both ways.

If the amp has been modified, abused or repaired by someone else, the warranty is void.

Any abused or damaged items are not eligible for warranty claims.