

REV V

Owner's Manual the D20



INTRO

Congratulations and welcome to the Revv family! Thank you for trusting Revv Amplification with such an important part of your musical endeavors. Enjoy tone, durability, and ease of use designed to inspire.



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safety instructions & warnings

read before connecting

This product has been built by the manufacturer in accordance with IEC 62368-1 and left the factory in safe working order. To maintain this condition and ensure non-risk operation, the user must follow the advice and warning comments found in the operating instructions. The unit conforms to Protection Class 1 (protectively earthed). If this product shall be used in vehicles, ships or aircraft or at altitudes exceeding 2000 m above sea level, take care of the relevant safety regulations which may exceed the IEC 62368-1 requirements.

Please read, understand and follow all safety instructions in this manual, as well as those on the rear panel of the amplifier. These instructions and warnings must be followed for your safety, and also to ensure that the amplifier will serve you for many years. Please use common sense when operating, this is a professional instrument designed for electric guitar amplification, and should only be used with electric guitar signals.

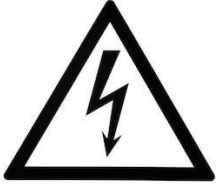
- Do not store or operate the amplifier in damp/wet areas.
- Do not keep items that contain liquid on or near the amplifier
- Allow for 4-6 inches of space around the unit when operating. This unit produces heat and should be kept away from flammable items/objects.
- Never obstruct the heat vent when the unit is powered on.
- Do not expose the amplifier to high temperature, keep away from radiators or heat producing/supplying items.
- Be sure to connect to an AC power supply that meets the power supply specifications listed on the rear of the unit.
- Do not use an AC power cord that is damaged, has been pinched, or is missing prongs. Periodically inspect the power cord for cuts or signs of stress especially at the plug and at the point the cord exits the device.
- Never use a damaged power cord.
- This amplifier must be properly grounded to local standards when being operated. Do not use 2 pole extension or power cords to supply power to this amplifier

- Remove the AC power cord from the amplifier when changing tubes, fuses or when moving the amplifier. Always replace fuses with the correct type and rating.
- The AC power cord should be removed from the outlet when left unused for long periods or when there is risk of electrical storms.
- To reduce the risk of electrical shock, the grounding of this product must be maintained. Use only the power supply cord provided with this product, and maintain the function of the center (grounding) pin of the mains connection at any time. Do not defeat the safety purpose of the polarized or grounding-type plug.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- No user serviceable parts inside, all service should be done by qualified personnel only. Do Not remove the panels to gain entry to the inside of the enclosure as high voltages will be present inside.
- Always make connections to the amplifier with the power off.
- Never push objects of any kind into this product through enclosure slots as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock .
- Your amplifier is designed to produce high volume/sound pressure levels. Long term exposure to these levels can damage your hearing. Please use hearing protection when exposed to these levels for extended periods to prevent loss of hearing or hearing damage.
- Keep away from children.

The manufacturer only guarantees the safety, reliability and efficiency of this product if:

- a) Assembly, extension, re-adjustment, modifications or repairs are carried out by the manufacturer or by persons authorized to do so.
- b) The electrical installation of the relevant area complies with the requirements of IEC (ANSI) specifications.
- c) The unit is used in accordance with the operating instructions.
- d) The grounding of the center pin of the mains plug is maintained to reduce the risk of shock.



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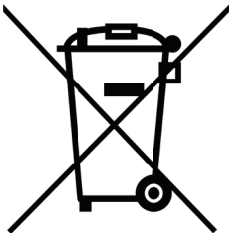
***This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.



***This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual.



***This symbol, wherever it appears, tells you: Take care! Hot surface! To prevent burns you must not touch.



***All electrical and electronic products including batteries should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.



set up & power up

It is very important to place the amplifier in a dry location that provides 4-6" of space between the rear of the amplifier and anything in the area that has been designated for the amplifier. Tubes produce heat, and anything flammable should be kept away. Verify that the heat vent is free from obstruction so that the heat produced by the tubes can escape from the interior of the amplifier.

Make sure that the power and standby switches are in the off (down) positions. Connect the amplifier to a speaker cabinet using a good quality speaker cable while making sure to use the correct speaker jack to support the speaker cabinet impedance. (If using the internal load, make sure the load button on the rear is set accordingly) Next, connect the AC power cord to the amplifier mains connector on the rear of the amplifier and then to an AC outlet.

At this point, all other peripherals can be connected to the amplifier as well including:

- FX Loop
- Guitar and Shielded Cable
- MIDI
- XLR
- USB
- Revv Cabinet Lighting
- Headphones

Note: A high-quality shielded instrument cable is recommended for guitar input as well as FX loop connections to prevent unwanted noise.

Once all your connections are made, move the power switch to the On position and give the tubes at least one minute to warm up. Now is a great time to begin setting all controls while we wait. We recommend setting the master volume and gain controls to the lowest setting or zero (fully counter clockwise) and all treble, mid and bass controls to the 12 o'clock positions to begin. Set the standby switch to the Revv (up) position and you are ready to begin exploring!

Note: Upon power up, you will have noticed that the logo lights up blue and the clip LED illuminates. The clip LED will turn off after 2-3 seconds post power up.



Front Panel Layout



Input - 1/4" Instrument cable input.

Gain Control - The **gain control** will add body and drive to your signal. It is a push/pull switch as well which when pulled out will give you a more distorted tone. This will give you the ability to find many different sounds and character in the range of the gain control.

NOTE: We suggest picking your favorite sounding position of the push/pull gain control then dialing in the amount of gain to taste, as the overall voicing is a bit different and both modes have a variety of cleaner and crunchier tones available.

3 Band EQ - The **Treble**, **Mid** and **Bass** controls are passive controls and are designed to offer a large range for different variations in both clean and crunch tones. In conjunction with the gain control, the EQ controls will provide some great tone!

Volume Control - The **volume control** drives the power amplifier producing your speaker output volume, but it also provides signal to the Two notes technology when the Pre/post switch is set to post. This will allow you to control the volume from your speakers but also control the input signal to the Two notes tech. This control is very versatile in the sense that you can also drive the power amp into break up to get a heavier power amp sound in both speaker and XLR/headphone output!

*Note: Setting all the above controls (**Gain, EQ, and Volume**) in tandem will result in powerful combinations as they are highly interactive. This is useful not only to achieve a variety of different tones and the ability to easily account for guitar/pickup changes, but also to allow you to find your preferred “set and forget” tone that you can then effect with pedals, your guitar’s volume knob, and playing dynamics.*

Wattage Switch - This latching push button switch allows you to set the power output of the amplifier to either 4 watts or 20 watts. 4 Watts has considerably less headroom and as such can be used to really drive the power section for a more broken up sound. 20 watts will produce more headroom and more overall volume.

Pre/Post Switch - Because the embedded Two notes technology can optionally provide virtual power amp simulation, you now have the ability to choose different virtual tube types such as EL34s or 6L6s for your power amp sound (when using the Two notes XLR out on the rear of the amp).

The latching Pre/Post push switch will feed the embedded Two notes Torpedo either an input signal from the Pre-amp or the power amp. “Pre” is recommended when setting so as to not “stack” two power amps in series. “Post” is always recommended in all other instances for optimal tone and feel.

Note: While you should not feel obligated to use this, this can be a powerful tool for advanced users looking to get a radically different sound out of their D20 for example when recording or sending your signal direct to front of house live.

Headphone Jack - The headphone jack on the D20 comes directly from the Two notes output! This allows you to use the amplifier with any of the selected virtual cabinet settings through your headphones. By utilizing the built in reactive load, you can play the amp with no speaker using only the headphone jack as the output for quiet playing and inspiring tone.

Headphone/XLR Output Trimpot - This trim pot, located under the headphone jack, controls the level of both the headphone jack and the XLR connector on the rear of the amp.

*Note: The power delivered by the headphones output is high enough to remain efficient even when using high-impedance headphones. Therefore, it is possible to get very high audio levels with that output. We strongly advise against the use of headphones with high audio levels. **The improper use of headphones can lead to irreversible damage to your hearing.***

Virtual Cabinet Switch - This 6 position selector switch will switch through the first 6 positions of the Two notes virtual cabinet library saved to your D20. You can change the virtual cabinets and all of their options saved to each position by using Two notes Remote software, connected via USB on the rear of the amplifier. Note that up to 128 can be saved via MIDI.

Standby and Power Switch - First turn on the power switch and wait a minute to allow the tubes to warm up. Turn on the standby switch to the Revv position once you are ready to play.

Note: NEVER power up the amplifier without the proper speaker load connected or reactive load switch engaged on the rear of the amplifier!

Rear Panel Layout



Mains Power Connector - When plugging the amplifier into the mains A/C wall receptacle, always make sure the amplifier power and standby switches are in the off position. The Required voltage and fuse ratings are marked on the amplifier underneath the mains input. Verify that they are correct for your electrical mains supply before plugging it in.

The mains input is a 2 part assembly on the D20 , not only will it allow you to plug the amplifier power cable into it, the main fuse is also a part of the assembly. Should the fuse ever blow on the amplifier, you will find the fuse in this assembly as well. There is also a spare fuse compartment built in so you can keep a spare fuse with you. The fuse type is marked on the rear of the amplifier.

HT Fuses - The HT fuse is in place to protect you and the amplifier from overload conditions. Always replace them with the same type and rating only! Always unplug the amplifier from the mains before replacing the fuses. Fuse requirements are marked on the rear panel of the amplifier. The HT fuse protects the High Voltage to the tubes from overloads.

Cabinet Lighting - The cabinet lighting jack on the rear of the amplifier is used to connect the D20 to Revv speaker cabinets. Because the Revv badge on our cabinets lights up, you can illuminate the cab badge with this jack. Simply use the 4 pin Din cable provided with all Revv cabinets and connect the D20 to the cab lighting connector on the cabinet.

MIDI In - The MIDI In jack is used exclusively with the Two notes Torpedo Embedded.

Note: The main purpose of this is not only saving more than 6 presets, but also allowing on-the-fly changes of the virtual cabinet setting live. For example, a guitarist with a MIDI/loop switcher choosing between “presets” during a set may want their clean tone to use a 2x10, their rhythm tone to use a 2x12, their lead tone to have reverb, and so on and so forth.

USB Connector - The USB connector will connect your computer to the D20 in order to use Two notes Remote software. Use the provided USB cable to do so and edit the presets, create new ones from scratch, or load your own third-party Impulse Responses!

Bias Test Jacks - The red and black test jacks on the amplifier will give you the ability to check and set the bias of the 6V6 power tubes with a multi-meter. So in the case you need to replace tubes, you can do it on the fly!

Balanced Output XLR and Ground Lift - The balanced output XLR jack is a direct output from Two notes Torpedo Embedded. By connecting this output to front of house or an audio interface you can capture D20's tone with no need for a cabinet or microphone! The ground lift switch will defeat the ground on the D20 should you encounter ground noise from other equipment you have connected.

FX Loop Send and Return Jacks - The D20 features a high quality buffered FX loop, the send and return jacks connect to any pedals or effect units you may want to use with the amplifier.

Let's go through it step by step, just in case you have never used an effects loop and don't know how to hook it up.

The send jack will need to be connected to the input jack on your effects unit. The output jack on the effects unit (or last pedal in your chain, if you are connecting multiple effects in series in the loop) will then connect back to the return jack on the amp.

Your effect is now part of the signal chain, verify that your levels are set accordingly on the effect so you have a strong signal being sent to the D20, then adjust the volume control on the D20 to your requirements.

Speaker Output jack - The D20 features one speaker output jack. This output jack works in conjunction with the impedance selector push button next to it and can support 4, 8 and 16 ohm cabinets. (See below)

Impedance Switch - The latching push button impedance switch will set the impedance of the amplifier to match the cabinet that you plan to use with it. The amplifier can support 4, 8 and 16 ohm cabinets.

If you want to use a **4 ohm** cabinet, set the D20 to 4 ohms by making sure the switch is "out."

If you want to use an **8 ohm** cabinet, set the D20 to 8 ohms by making sure the switch is "in."

If you want to use a **16 ohm** cabinet, set the D20 so the switch is also "in." This is a "safe mismatch" which will not injure the D20. (See below)

Tubes & Bias

Power Tubes - The Revv D20 has been designed to use **6V6GT** power tubes in the power section, and it is recommended that Revv 6V6GT power tubes be used whenever replacement is necessary for optimal performance.

Preamp Tubes - The D20 amplifier uses **12AX7** preamp tubes in tube positions **V1** and **V2** positions. Preamp tubes do not need to be biased and usually have a long life, unlike power tubes. However it is possible for a preamp tube to become faulty at any stage of its rated lifespan.

Power Tube Bias - The power tubes can be biased without opening the chassis. You will need a digital multimeter set to the lowest DC voltage range. (Make sure you refer to the meter's user manual and are familiar with the meter - not all meters are capable of reading such a small signal.)

Note: Use tubes that are matched! It is recommended that a matched Revv brand pair of 6V6GT tubes be used when replacing the power tubes.

Note: While the bias setting of the power tubes has been made user friendly, we do not expect everyone to be experienced enough to perform the procedure and we strongly recommend that the procedure be completed by an experienced technician to prevent damage to the amplifier or power tubes.

Procedure:

- 1) If you are simply checking the bias, use your multimeter in the bias test points to verify that the tubes are at the recommended bias setting. If the bias setting needs to be adjusted or new tubes were installed, remove the D20 top lid to access the tubes and bias control trimmer.
- 2) If you are changing tubes, change them now, make sure that the power cable is unplugged from the amplifier.
- 3) Once the tubes are replaced, or you are ready to adjust the bias. Plug the amplifier back into the mains and turn on the power switch. Make sure the D20 is connected to a speaker or the reactive load switch is set to internal load. Let the amplifier warm up for a minute then turn on the standby switch.
- 4) Wait another 3 minutes to let the tubes warm up further. Make sure your multimeter is connected to the bias test points on the amp. Now, using the bias adjustment trimmer (located in the small hole inbetween the power tubes) turn the trimmer until the required reading is visible on the multimeter.
- 5) Once the bias is set as recommended, turn the power off on the D20. Wait until the tubes are cooled off (approx 10 minutes), then put the top lid back on the D20, fastening all 4 screws securely.

4.1

BIAS CHART for D20

Type	6V6GT
Recommended set point	50mV

MIDI



The D20 amplifier is equipped with MIDI for control of the embedded Two notes Torpedo.

Program Change - Each preset on the D20 has a single program number. Preset 001 is recalled with MIDI PC 1, and you can recall the 128 virtual cab presets with MIDI PC 1 through MIDI PC 128 in this manner.

Control Change - For very specific uses Control Change signals may be appropriate. We recommend starting with PC signals (virtual cabinet preset recall) for the D20 then only moving on to CC signals for very specific and advanced situations.

MIDI CC Commands

The following table indicates the Control Change numbers for every parameter, as well as their range and behavior. This table is valid for firmware version 4.

Parameter	CC#	Range	Behavior
Simulation & IR Loader modes			
<u>Power Amp</u>			
On/Off	0	0-1	0 = Off ; 1 = On
Model	1	0-7	0 = Model #0 ; 1 = Model #1...
Volume	2	0-30	0 = 0dB ; 30 = 30dB
Presence	3	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Depth	4	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Type	5	0-1	0 = Triode ; 1 = Pentode
<u>Miking</u>			
On/Off	6	0-1	0 = Off ; 1 = On
Cab	8	0-x	0 = Cab #0 ; 1 = Cab #1...
File A	9	0-x	0 = File #0 ; 1 = File #1...
File B	10	0-x	0 = File #0 ; 1 = File #1...
Folder A	11	0-3	0 = User 0 ; 1 = User 1 ; 2 = User 2 ; 3 = User 3
Folder B	12	0-3	0 = User 0 ; 1 = User 1 ; 2 = User 2 ; 3 = User 3
Mic A	13	0-7	0 = Mic #1 ; 1 = Mic #1...
Distance A	14	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Center A	15	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Position A	16	0-1	0 = Back ; 1 = Front
Level A	35	0-107	0 = -95dB ; 95 = 0dB ; 107 = 12dB
Phase A	36	0-1	0 = Normal ; 1 = Invert
Mute A	37	0-1	0 = Off (no mute) ; 1 = On (mute)
Mic B	38	0-7	0 = Mic #1 ; 1 = Mic #1...
Distance B	39	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Center B	40	0-127	0 = 0% ; 63 = 50% ; 127 = 100%
Position B	41	0-1	0 = Back ; 1 = Front
Level B	42	0-107	0 = -95dB ; 95 = 0dB ; 107 = 12dB
Phase B	43	0-1	0 = Normal ; 1 = Invert
Mute B	44	0-1	0 = Off (no mute) ; 1 = On (mute)

EQ

On/Off	17	0-1	0 = Off ; 1 = On
Mode	18	0-2	0 = Guitar ; 1 = Bass ; 2 = Custom
Gain: Low	19	0-40	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: Low Mid	20	0-40	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: Mid	21	0-40	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: High Mid	22	0-40	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Gain: High	23	0-40	0 = -20dB ; 20 = 0dB ; 40 = 20dB
Freq: Low Cut	45	0-127	Specific mapping to Hz
Freq: Low	46	0-127	Specific mapping to Hz
Freq: Low Mid	47	0-127	Specific mapping to Hz
Freq: Mid	48	0-127	Specific mapping to Hz
Freq: High Mid	49	0-127	Specific mapping to Hz
Freq: High	50	0-127	Specific mapping to Hz

Level

Preset Level	24	0-95	0 = -95dB ; 95 = 0dB
Reverb			
On/Off	25	0-1	0 = Off ; 1 = On
Room	26	0-7	0 = Room #0 ; 1 = Room #1...
Dry/Wet	27	0-127	0 = 0% ; 63 = 50% ; 127 = 100%

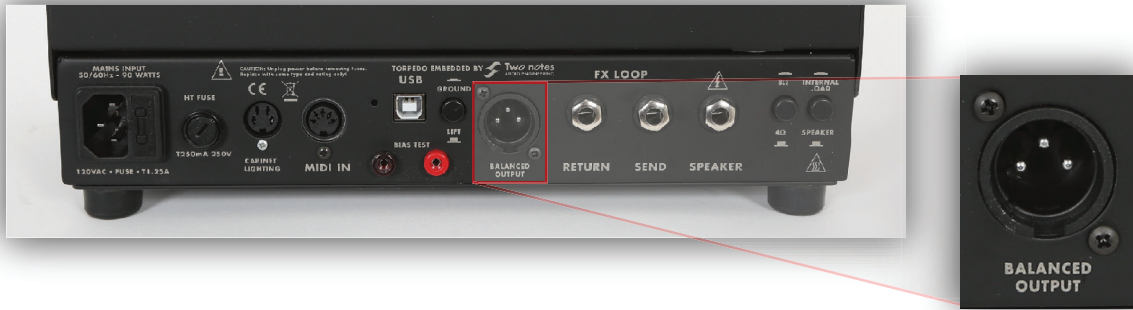
Arcade mode

Cab	8	0-x	0 = Cab #0 ; 1 = Cab #1...
Mic	13	0-7	0 = Mic #1 ; 1 = Mic #1...
Room	26	0-7	0 = Room #0 ; 1 = Room #1...
Power Amp	29	0-30	0 = Off ; 1 = min ; 30 = max
Distance	30	0-44	0 = min ; 44 = max
Tone	31	0-44	0 = min ; 44 = max
Contour	32	0-40	0 = min ; 40 = max
Preset Level	33	0-107	0 = -95dB ; 95 = 0dB ; 107 = 12dB

General

Preset mode	34	0-2	0 = Simulation ; 1 = Arcade ; 2 = IR Loader
Out Level	51	0-107	0 = -95dB ; 95 = 0dB ; 107 = 12dB
Mute	52	0-1	0 = Off (no mute) ; 1 = On (mute)
Preset	54	0-127	0 = Preset #1 ; 1 = Preset #2...

Balanced Out - XLR



The **balanced out XLR** connector on the rear of the amplifier is a direct output from the embedded **Two notes Torpedo** and not direct from the tube amplifier output itself. The purpose of this output is to be used with audio interfaces to exclude the use of an actual speaker cabinet, using virtual cabinets instead.

Note: The reverb or other effects that the Two notes Torpedo provides will only be available through the output at the headphone or XLR jack and not a real cabinet. The speaker output will always behave normally. As an added bonus, some users will find this useful for “wet/dry” setups in which they send a signal that utilizes reverb to front of house, while playing through a dry cabinet.

In order to run the output of the D20 to an audio interface, connect the D20 to the audio interface with an XLR cable. Set the amplifier up the way you intend to play, (EQ, volume) and then adjust the output of the balanced out with the small trimmer on the front of the amplifier. You will want to turn the level up until the clip LED illuminates and then back it off, or adjust it to the parameters of the audio interface.

The Ground Lift switch should be set to ground (pushed in) for best results. However, if this produces a buzz or hum because of ground loops between the D20 and the audio interface, press the ground lift switch to eliminate noise.

USB



The D20 can be connected to Two notes Remote software in order to manipulate all available settings and change the presets found on the front knob of the amplifier. This is via the USB port.

You can find the Remote Software for the D20 here:

<https://www.two-notes.com/downloads>

Once you connect your D20 to the computer using the provided USB cable, your computer will start recognizing the D20. This may take a couple of minutes. Once this is complete, simply open the Remote Software and the D20 will connect.

Once connected, you can tweak all available Torpedo Embedded settings to your preferences!

Note: If you are new to studio practices such as mic placement, the difference in tonalities between different speakers, and more - Two notes has a wealth of resources available throughout their channels to get you started. Of course, the presets are the best start in this situation!



Reactive Load



The D20 comes with a built in reactive load to allow you to play without the need for a speaker cabinet. On the rear of the amplifier there is an internal load/speaker switch to switch between the speaker cabinet and the reactive load. Depending on what you need, you can switch between the two on the fly.

The speaker cabinet does not have to be unplugged when switching to the reactive load, the switch will bypass the speaker cab and only use the reactive load or vice versa! So you have full control by simply using the switch.

*Note: If you forget to plug in a speaker cab and run the amplifier without a speaker cab fear not! The D20 automatically uses the reactive load if there is no speaker plugged into the amplifier. **But be aware, if there is a cable plugged into the speaker jack on the D20 but no speaker cab plugged into the other end of the cable, this will cause damage unless the reactive load is engaged by using the internal load switch!***

For USA: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter meets both portable and mobile limits as demonstrated in the RF Exposure Analysis. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

For Canada: This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

WARRANTY

This Revv Amplification Inc. product is warranted against manufacturing defects in material and workmanship for a period of five (5) years from the date of purchase to the original owner. Tubes and fuses however will be warranted for ninety (90) days from date of purchase of the product to the original owner and speakers will be warranted for one [1] year. The warranty starts on the date of receipt by the original owner. This warranty is subject to the exclusions and obligations listed below.

Exclusions

Product that has been altered or are missing serial numbers will not be covered. Items that were damaged while being shipped to or from Revv Amplification Inc. will not be covered by this warranty. This warranty shall not apply to repair or replacements necessitated by any cause beyond the control of Revv Amplification Inc. including, but not limited to, any malfunction, defects, or failure caused by or resulting from unauthorized service or parts, damaged or broken tubes, improper maintenance, incorrect line voltages, liquid damages, modification or repair by the user, misuse, abuse, accident, neglect, or fire. Revv Amplification inc. does not authorize any party to assume for it any other obligation or liability. In no event shall Revv Amplification Inc. be liable for any damages arising from the use of this product, or for any delay in the performance of this warranty due to causes beyond our control.

Obligations

This warranty will be honored with original proof of purchase to the original owner only. Warranty work must be authorized by Revv Amplification inc. in advance. All freight and duty (If applicable) is to be pre paid to and from Revv Amplification inc. of all products that require and have been approved for warranty work. Revv Amplification inc. is not liable for any freight and or duty (if applicable) charges.

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