JOEMEEK

DISTRIBUTED BY PMI AUDIO GROUP

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Gardena, CA 90247
USA

Place Stamp Here

Joemeek User Guide

Joemeek is manufactured and
marketed under the direction of:

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Written by Allan Bradford, MSc

CE

Important Safety Information

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO AVOID FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPARATUS TO WATER, RAIN OR MOISTURE.

This appliance has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records.

Model number

Serial number

NOTE — This apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

ATTENTION — *Le présent appareil numérique n’émet pas de bruits radioélectriques dépassant las limites applicables aux appareils numériques de class A/de class B (selon le cas) prescrites dans le réglement sur le brouillage radioélectrique édicté par les ministere des communications du Canada.*

These limits are designed to provide reasonable protection against harmful interference in a commercial/residential installation respectively. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by any combination of the following measures: (1) Relocate or reorient the receiving antenna (2) Increase the separation between the equipment and the receiver (3) Plug the equipment into an outlet on a circuit different from that to which the receiver is connected (4) Consult your dealer or experienced radio/television technician for additional assistance.

CAUTION — Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Important Safety Instructions

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water. Do not expose to drips or splashes. Do not place any objects filled with liquids, such as vases, on the apparatus.

6. Clean only with dry cloth.

7. Do not block any ventilation openings. Do not install this apparatus in a confined space such as a book case or similar unit. Install only in racks designed for the purpose and in accordance with manufacturers’ instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. 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.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments and accessories specified by the manufacturer.

12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

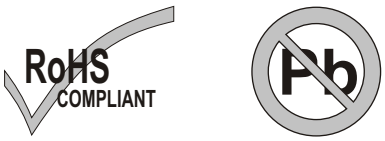
15. Apparatus designed with Class-I construction must be connected to a mains socket outlet with a protective earthing connection (the third grounding prong).

16. This apparatus may be equipped with a single-pole, rocker-style AC mains power switch. If so this switch is located on the front panel and should remain readily accessible to the user.

17. The manufacturer reserves the right to change the technical specification of the product without prior notice.

Statement of RoHS Compliance

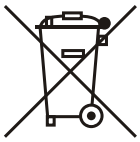
PMI Audio Group manufactures complete electronic products which are covered by the European Union's "Removal of Hazardous Substances" directive 2002/95/EC (RoHS). This directive seeks to eliminate toxic substances from the manufacturing process, such that when equipment is disposed of at the end of its life cycle, the materials it contains do not contaminate the environment and pose health risks. Banned substances are lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and poly-brominated diphenyl ethers (PBDE). Lead is used together with tin in solder connections to reduce the melting point of solder. Lead-free solder requires higher soldering temperatures which in turn places greater thermal stress on components.



PMI Audio Group takes seriously its obligations under the RoHS directive and insists that its factories use only components that are certified RoHS compliant, as well as lead-free solder. In a very few cases the necessary components may not yet be available to the world market but we work continuously to eliminate any such exceptions at the earliest opportunity. Our printed Circuit Boards (PCB's) and all soldered joints have been lead-free since 2005.

Statement of WEEE Policy

PMI Audio Group manufactures many complete electronic products which are covered by the European Union's "Waste Electric and Electronic Equipment" directive 2002/96/EC (WEEE). This directive seeks to ensure that waste electric and electronic equipment is disposed of in an environmentally responsible manner, at the end of its life cycle. PMI Audio Group takes seriously its obligations under this directive to take back WEEE-affected products and, from 13th August 2005, will mark all such products with the crossed-out wheeled bin symbol.



Business to Business products: PMI Audio Group will cost-neutrally take back WEEE-affected electric and electronic equipment in this category, from 1st January 2006. PMI Audio Group will work with disposal and recycling partners working within the EU. The waste electric and electronic equipment can then be turned over to a disposal and recycling companies in the countries concerned.

Business to Customer products: emerging electric and electronic equipment will be disposed of by local authorities' collection systems.

Dual Use products: this equipment will be disposed of by local authorities' collection systems.

Contents

JOEMEEK – the legend grows

The latest generation of Joemeek audio processors represents a quantum leap in the history of the Joemeek legend. Long regarded for its "Big Sound", the original Joemeek gear was both revered and reviled for its somewhat "quirky" nature. Now we have taken the best of what made the Joemeek products sound great, refined it, distilled it, added to it and repackaged it.

Properly and robustly engineered for predictable, controllable performance, the new range retains the famous Joemeek sound, with its wide, flat frequency response extending from subsonic to ultrasonic. It also uses genuinely low noise circuitry, with lots of headroom (immunity to overload). Accurate calibration and clear panel labeling, give you complete confidence in what's going on. While some equipment pays lip-service to quality and "professional rules" but fails to deliver, the new generation of Joemeek products is founded on good solid electronic and audio engineering, and easily withstands direct comparison with the very best names in pro audio.

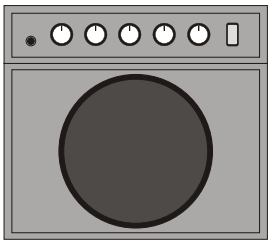
The Joemeek range provides everything you need to get your performance across, whether playing live or recording.

About the Designer

The latest generation of Joemeek products has been designed by renowned audio electronics consultant Allan Bradford. With his background in physics and 30 years experience with the design of instruments, mixers, processors and amplifiers, Allan's unique range of expertise ensures that Joemeek remains at the forefront of music technology.

gbQ at a Glance

GUITAR AMP



INPUT – sets the gain of the preamplifier, to match the guitar to the guitar amplifier.

ODD – adds dissonant harmonics and sustain. SOFT – changes hard clipping to soft clipping.

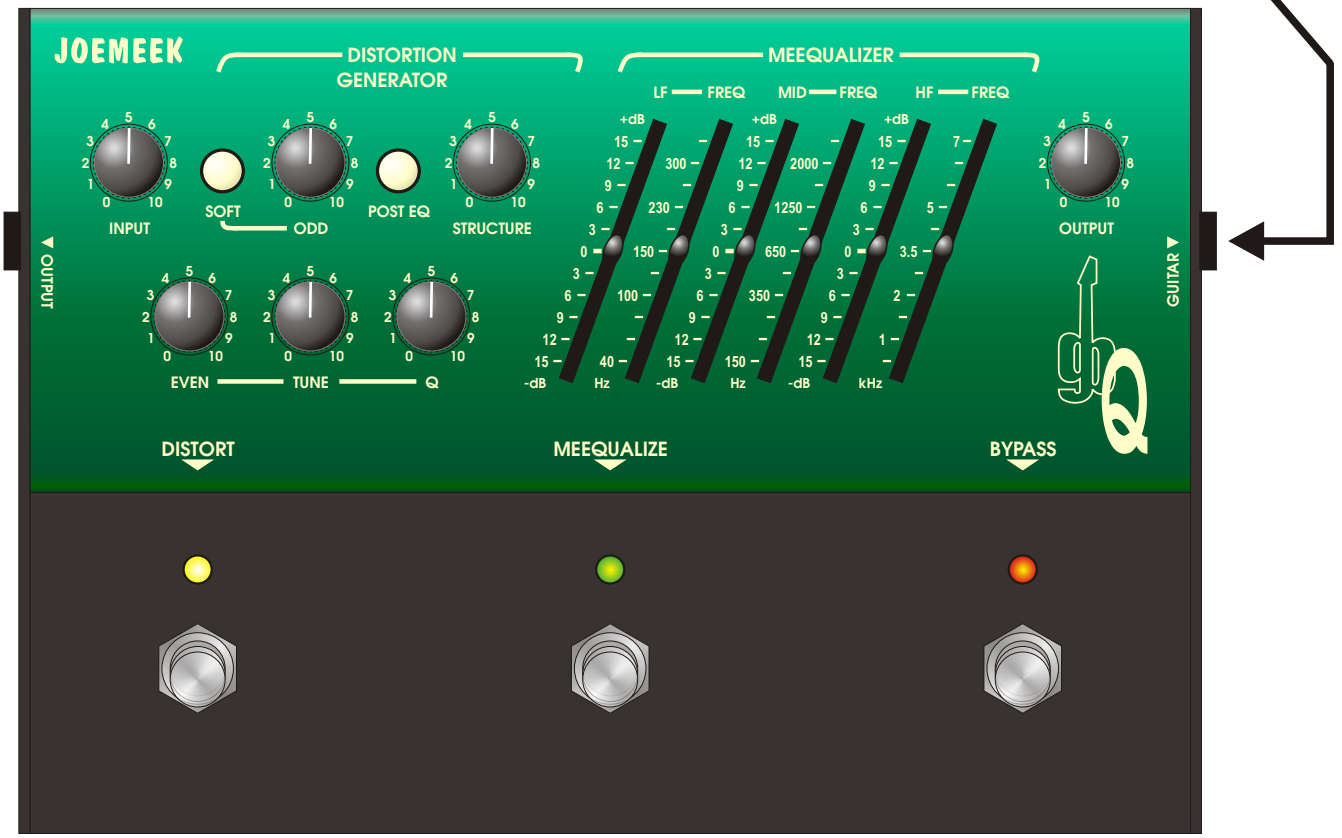
STRUCTURE – changes the phase of all added harmonics, relative to the original signal.

EVEN – adds sonant harmonics.

TUNE – sets the frequency above which harmonic enrichment is applied.

Q – adds a resonant peak at the frequency set by the TUNE control.

POST EQ – places the entire Distortion Generator section after the Meequalizer.



MEEQUALIZER – three band, parametric, peaking tone controls.

OUTPUT – sets the volume of the distorted and Meequalized signal.

DISTORT & MEEQUALIZE FOOTSWITCHES – turn individual sections on and off. LEDs light when active. BYPASS FOOTSWITCH – turns everything on and off except for 'INPUT' level. Red LED lights when Bypass is active.

DI OUTPUT – balanced feed to mixing desk. Screwdriver adjustment sets volume. Ground-Lift switch can be used to avoid mains hum.

PHONES – drives most high impedance headphones for practice.

SEND & RETURN – used to connect another effects pedal, to that the gbQ's BYPASS footswitch can turn it on and off.

POWER – use supplied 12Vac adaptor, or any third-party guitar effects power supply in the range 9V - 18V, ac or dc.
DO NOT ATTEMPT TO CONNECT TO MAINS VOLTAGE!!!

Overview

The JOEMEEK gbQ is a professional studio quality processor in compact pedal format. It takes an instrument such as an electric guitar or bass guitar, amplifies it, creates harmonic distortion and adds sustain as required. Simple to use yet extremely powerful, the gbQ will give the gloss of a professional studio production to all your performances. It is equally at home both live and in the studio.

Think of the gbQ as five separate items of equipment:

- **A Preamplifier**
- **A Distortion Generator**
- **An Equalizer**
- **A Direct Inject (DI) Box**
- **A Headphone Amplifier**

Preamp

This is the all-important front end to the gbQ. Its job is to accept any type of instrument and make it loud enough. It has a very high input impedance, making it suitable for all types of guitar pick-up, including piezo (crystal) acoustic pick-ups.

There is just one control, 'INPUT', which covers a range of amplification from 0dB (unity) to 20dB. This accommodates the wide variation in levels that come from different kinds of guitars and acts as a level matcher between guitar and guitar amplifier.

It is active whether or not the Distortion Generator or EQ is turned on, so that the gbQ always sends the correct guitar volume to the power amplifier.

The preamp is an extremely high quality, low noise, Class-A design that will be appreciated by audiophile musicians and engineers.

Meequalizer

The gbQ “Meequalizer” is a highly effective, versatile and musically rewarding three-band equalizer, or tone control system. It may help to think of it as being like a graphic equalizer, only instead of lots of fixed frequency bands, you have three that can be moved to cover any given frequency band. Each stage allows boost or cut of up to 15dB around the frequency in question.

The “EQ” footswitch turns the equalizer on and off (green LED lights when active).

The LF or bass band can be tuned or “swept” anywhere between 40Hz and 350Hz. Cutting can be used to reduce unwanted LF noise, such as hum or rumble. Boosting can bring out the warmth and body of bass lines.

The Mid band can be tuned or “swept” anywhere between 150Hz and 2.5kHz. Cutting the Mid band can reduce annoying resonances. Boosting can bring out the body and warmth of a guitar, or the harmonics of bass guitars.

The HF or treble section can be tuned or “swept” anywhere between 500Hz and 7kHz. Boosting the HF band gives a sense of “air” or “sparkle” to instruments. Alternatively with bass guitars, cutting this band will reduce HF noise such as hiss and crackle. Higher setting are very effective at reducing harshness, or indeed creating it, for example by boosting the harmonics of electric guitars.

The Meequalizer is normally after the Distortion Generator and before the Insert Point. Pressing the 'POST EQ' switch however, places the Meequalizer before the Distortion Generator.

Distortion Generator

The 'ODD' harmonics control provides fairly conventional "clipping" overdrive, only with a contoured frequency response, so that harmonics are produced consistently over the whole range of the instrument. Clipping an audio signal generates overtones at 3, 5, 7... times the frequency of the fundamental note, hence: "odd" order (dissonant) harmonics. The 'SOFT' button reduces the harshness of the effect (which can also be modified extensively by both the 'Structure' control and the Meequalizer). Either way the 'Odd' section of the Distortion Generator will add sustain to the guitar.

The 'EVEN' harmonics control adds musically sonant harmonics at octave intervals above the fundamental note, which is the equivalent of "tube" distortion. However to do this over the whole range of the instrument can just sound horrible! This is why we have a 'TUNE' control, to set the range of frequencies affected. Turn it clockwise to process only higher notes.

Turning up the ‘Q’ control emphasizes a narrow range of frequencies around that set by the ‘TUNE’ control, which concentrates processing on a particular band. Using the ‘TUNE’ and ‘Q’ controls together allows the gbQ to bring out a particular part of the guitar's overall sound.

Note that the 'Even' section of the Distortion Generator is independent of signal level and so does not add sustain to the guitar.

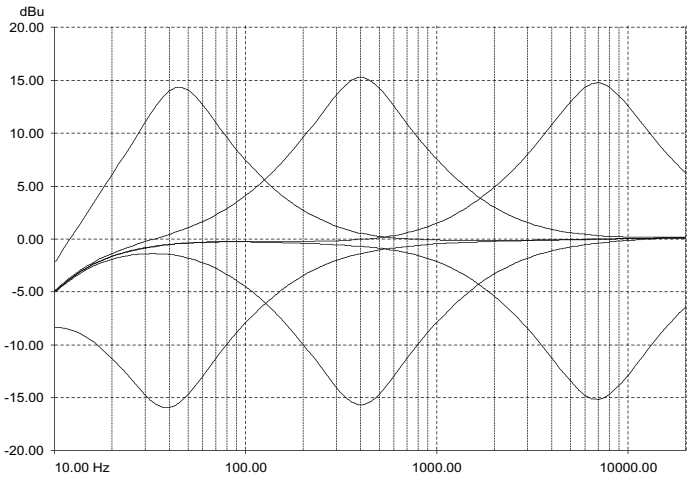
'STRUCTURE' alters the phase relationship between the original signal and the generated harmonics. When the knob is swept it sounds like "phasing" but in the gbQ, think of it as a different kind of tone control.

Normally the Distortion Generator comes before the Meequalizer, which allows tone control of the distorted sound. Pressing the 'POST EQ' switch places the Distortion Generator after the Meequalizer, allowing the EQ section to boost or cut those frequencies which will be distorted. This is useful for example, when some strings are louder than others.

The footswitch turns the Distortion Generator on and off (yellow LED lights when active).

Technical stuff

Each section of the Meequalizer has a peaking or “bell” shaped frequency response, which will be found to be musically more satisfying than conventional “shelving” equalizers. The use of bell curves at LF and HF also avoids boosting subsonics and ultrasonics which can have adverse effects on other studio equipment, such as recorders, monitor amplifiers and speakers. The “Q” value of the peaking filters is 0.9 (or 1.6 octaves). Zero phase distortion ensures the best possible audio coherence.



gbQ Meequalizer response curves:

- LF boost and cut @ 40Hz
- MF boost and cut @ 400Hz
- HF boost and cut @ 7kHz

Output

The 'OUTPUT' control sets the volume of the distorted and Meequalized signal. It goes from unity gain right down to nothing, to fade the sound out completely. It has no effect when 'BYPASS' is on.

Adding distortion and boosting with the Meequalizer generally makes the guitar louder, so the 'OUTPUT' control is used to restore the original level. In this way there need be no change in volume between the processed and unprocessed sound – if that is what is required.

Connections

OUTPUT (Jack)

Use this connection to feed a guitar amplifier or other effects pedals.

PHONES (Jack)

This output drives most high impedance headphones.

DI OUTPUT (XLR)

This provides a balanced, line-level feed to a mixing desk. A screwdriver 'LEVEL' control on the back of the gbQ sets the volume, independently of the Guitar Amp and Headphone outputs. It is wired as follows:

Pin 2: + (hot)
Pin 3: - (cold)
Pin 1: ground

The XLR output is properly balanced, which is to say there is a signal on both pins. In this way the maximum possible common-mode rejection of interference, can be achieved at the receiving end.

To run the DI Output unbalanced, ground pin 3 of the cable connector. This boosts the signal on pin 2 by 6dB so that there is no drop in level when running unbalanced.

If mains hum is apparent when using the gbQ with a PA System, move the 'GROUND' switch to the 'LIFT' position. In this way the signal ground is connected by some other circuit within the overall system, thereby avoiding "hum loops".

SEND and RETURN (Jacks)

This pair of unbalanced jacks on the rear panel allows you to patch other pieces of equipment into the gbQ, such as a digital delay effects processor. Connecting other equipment in this way, has the advantage that the gbQ's overall 'BYPASS' footswitch bypasses the other equipment as well.

When no jack is inserted, the sockets are internally linked, or "normalled", so that the signal flows uninterrupted.

POWER

The gbQ can be powered either using the supplied 12Vac adaptor, or any third-party guitar effects power supply in the range 9V - 18V, ac or dc. This means that the gbQ can be powered from almost any existing pedalboard, so long as you have a connector that fits the power socket.

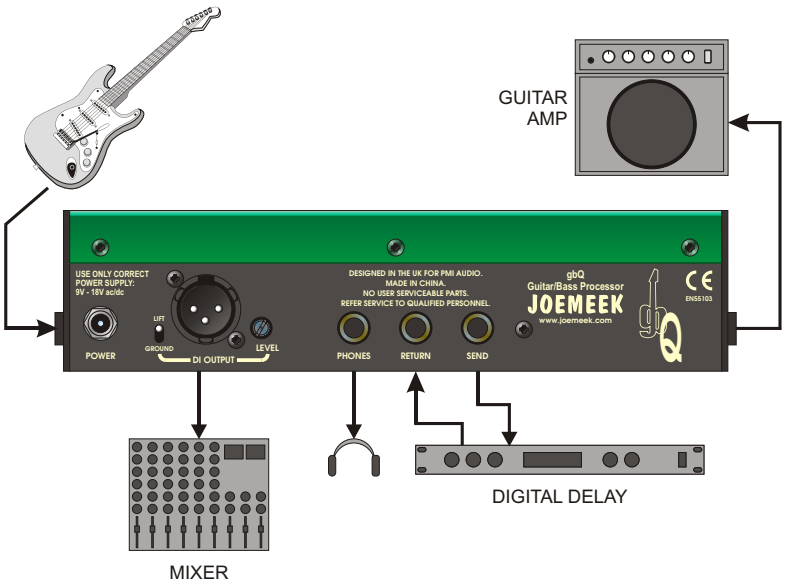
Use of other voltages may damage the gbQ and damage so caused will invalidate the warranty. In particular:

DO NOT ATTEMPT TO CONNECT TO MAINS VOLTAGE!!!

Using the gbQ

GETTING CONNECTED

The figure shows the gbQ being used in a typical setup:



The SEND & RETURN are being used to divert the sound through an external delay processor. The delay is then switched off when the gbQ's 'BYPASS' footswitch is pressed. The DI Output provides a separate feed to the PA System.

POWER SUPPLY

Connect the Power Supply to the 'POWER' connector on the rear panel and switch on the mains supply. **NB: Use only the 12Vac mains adaptor supplied, or a proper guitar pedal supply in the range 9V to 18V, ac or dc. Use of any other power supply may damage the gbQ and invalidate the warranty.**

Using the Preamp

Turn the 'INPUT' control to minimum and connect the guitar. Press the 'BYPASS' footswitch so that the red LED lights. The Distortion Generator and Meequalizer are now bypassed so that only the Preamp is in use.

Adjust the 'INPUT' until you have a working volume from the guitar amp. The amount of gain required will depend on the particular type of guitar and pickups.

Using the Distortion Generator

Start with 'ODD', 'EVEN' and 'STRUCTURE' controls all at "0" and the 'SOFT' and 'POST EQ' switches out. Make sure that the 'OUTPUT' control is turned up full and that the 'BYPASS' footswitch is off. Press the 'DISTORT' footswitch so the yellow LED lights. At this point there should be no change in the sound of the guitar.

Advance the 'ODD' control clockwise until the required degree of distortion and/or sustain is achieved. Try pressing the 'SOFT' switch and listen to the effect on tone and sustain. Turn the 'STRUCTURE' control clockwise and hear how the sound changes ("0" has no effect).

Set 'TUNE' and 'Q' controls to "0" and advance the 'EVEN' control. There should be an apparent increase in the treble content of the distortion. With higher settings of the 'TUNE' control, the effect will be heard at progressively higher pitches.

Turn the 'EVEN' and 'Q' controls to maximum: now sweep the 'TUNE' control and hear the resonant peak moving through the spectrum. This can be used to emphasize a particular part of the guitar's timbre.

Enhancement

The "Even" section of the Distortion Generator can also be used with a clean guitar sound, providing harmonic enrichment without apparent distortion. This is especially useful for acoustic guitars.

Make sure the 'ODD' and 'Q' controls are set to "0" and the 'TUNE' control to "7". Advance the 'EVEN' control and adjust the 'TUNE' control between "6" and "10" to change the character of the resulting enhancement.

Then turn up the 'Q' control and use the 'TUNE' control to hunt around for particular harmonics. With this kind of enhancement you will usually find that "less is more" and it is as well to keep the 'EVEN' and 'Q' settings fairly low. It is very easy to add too much harmonic and though the effect can be dramatic at first, it will soon become wearing and contribute to listening fatigue. If you can hear audible distortion creeping in you are definitely overdoing it, so turn down the 'EVEN' control and/or raise the 'TUNE' setting.

Use the 'DISTORT' footswitch to make comparisons between processed and unprocessed sound. The nature of harmonic enhancement is such that you may not realize how much effect it is having until you turn it off!

Using the Meequalizer

Always start with the Meequalizer boost/cut controls (LF, MID and HF) set to "0" (the control knobs set in their center notches). This setting is also known as "flat". Make sure that the 'OUTPUT' control is turned up full and that the 'BYPASS' footswitch is off. Press the 'MEEQUALIZE' footswitch so the green LED lights. At this point there should be no change in the sound of the guitar.

You need to be careful about too much boost, since boosting takes the gbQ closer to overload. Overload equals distortion but not the good sort! The gbQ has generous overload margins but when a lot of boost is used, it may be necessary to compensate by reducing the 'OUTPUT' control or the 'INPUT' control (the latter will affect the "Odd" distortion and sustain though).

The way to use the LF, MF and HF controls, is to apply quite a lot of boost, then sweep the frequency until you "tune in" to the sound you are interested in. Once you find it, adjust the amount of boost or cut to give the desired effect.

Experiment with combinations of settings of EQ and try to picture how the audio signal is being affected. Use the 'MEEQUALIZE' footswitch to make comparisons between EQ'd and non-EQ'd signals.

Troubleshooting

1) No Power (FOOTSWITCH LEDs don't light up)
- Is the power supply plugged in (both ends)?
- Is the mains power on?
- Has a mains fuse blown?
- There is a thermal, self-resetting fuse inside the gbQ. Try disconnecting the power supply, waiting 5 minutes then trying again.

2) The Input doesn't work
- Is the guitar connected to the input jack?
- Is the 'INPUT' control turned up enough?

3) The Distortion Generator doesn't work
- Is the 'DISTORT' footswitch on (yellow LED lit)?
- Is the 'BYPASS' footswitch off (red LED off)?
- Is the 'ODD' control turned up enough?
- Is there enough signal, as set by the 'INPUT' control, to drive the Distortion Generator?

4) The Meequalizer doesn't work
- Is the 'MEEQUALIZE' footswitch on (green LED lit)?
- Is the 'BYPASS' footswitch off (red LED off)?
- Is either the LF 'FREQ' too low or the HF 'FREQ' too high?

5) Too much noise
- Is the 'INPUT' control too high (eg: the input signal is too small)?
- Is the noise already present in the input signal? (Try unplugging the guitar).
- Is the 'OUTPUT' control too high (eg: when lots of "Odd" distortion is being used)?

6) Sounds (unpleasantly) distorted
- Is the 'INPUT' control too high?
- Too much boost from the Meequalizer?

Technical Specification

Input impedance	6.8Mohm
Pre-amp gain	0dB to +20dB (variable)
Equivalent input noise	-92dBu (A-weighted)
Distortion	0.001% (below Distortion threshold)
Frequency response	15Hz to 20kHz (-3dB)
Maximum input before clipping	+19.5dBu
Headroom before clipping	+19.5dBu
EQ Boost and Cut	-15dBu to +15dBu (variable)
EQ "Q"	0.9 (1.6 octaves)
LF Frequency	40Hz to 350Hz (variable)
MF Frequency	150Hz to 2.5kHz (variable)
HF Frequency	500Hz to 7kHz (variable)
Output gain	-infinity to 0dB (variable)
Nominal output level	0dBu
Output impedance	100ohm
Noise Floor	-92dBu (typical, with 0dB Input and 0dB Output gain)
Power supply voltage	9V to 18V, ac or dc (12V ac adaptor supplied)
Power supply current	270mA max (@ 9Vdc)
Power consumption	2.5W max
Mechanical	220W x 65H x 154D (overall)
Weight	1.5 kilo

Notes

Joemeek Limited Warranty

THIS PRODUCT IS FOR PROFESSIONAL USE ONLY

PMI Audio Group warrants that all products will be free from defects in material or workmanship:

A: For a period of one (1) year from the date of purchase (hereinafter the labor warranty period). PMI Audio Group will repair or replace this Product if determined to be defective. After the expiration of the labor warranty period, the Purchaser must pay labor charges.

B: In addition, PMI Audio Group will supply, at no charge, replacements for defective parts for a period of one (1) year from the date of purchase. During the labor warranty period, to repair the Product, the Purchaser must return the defective Product, freight prepaid, or deliver it to a PMI Audio Group Service Center. The Product to be repaired is to be returned in either its original carton or a similar package affording an equal degree of protection. PMI Audio Group will return the repaired Product freight prepaid to the Purchaser. PMI Audio Group is not obligated to provide the Purchaser with a substitute unit during the warranty period or at any time.

Conditions of Warranty

1. Notification of claims: Warranty Service: If Purchaser discovers that the Product has proven defective in material or workmanship, then written notice with a full explanation of the claim shall be given promptly by the Purchaser to PMI but all claims for warranty service must be made within the warranty period. If after investigation PMI determines that the reported problem was not covered by the warranty, Purchaser shall pay PMI for the cost of investigating the problem at it's the prevailing time-and-materials rate. No repair or replacement by Purchaser of any Product or part thereof shall extend the warranty period as to the entire Product. The specific warranty on the repaired part only shall be in effect for a period of ninety (90) days following repair or replacement of that part or the remaining period of the Product warranty, whichever is greater.

2. Exclusive Remedy: Acceptance: Purchaser's exclusive remedy and PMI's sole obligation is to supply (and pay for) all labor necessary to repair any product found to be defective within the warranty period and to supply, at no extra charge, new or rebuilt replacements for defective parts. If repair or replacement fails to remedy the defect, then and only in such an event, shall PMI exchange to Purchaser a new or reconditioned unit. Purchaser's failure to make a claim as provided in paragraph 1 above or continued use of the product shall constitute an unqualified acceptance of such Product and a waiver by Purchaser of all claims thereto.

3. Exceptions to Limited Warranty: PMI shall have no liability or obligation to Purchaser with respect to any Product subjected to abuse, negligence, accident, modification, failure of the end-user to follow the operating and maintenance procedures outlined in the users manual, attempted repair by non-qualified personnel, operation of the unit outside of the published environmental and electrical parameters, or if such Product's original identification (trademark, serial number) markings have been defaced, altered, or removed. PMI excludes from warranty coverage, Products sold AS IS and/or WITH ALL FAULTS and excludes used products which have not been sold by PMI to the purchaser. PMI also excludes from warranty coverage consumables such as fuses and batteries, tubes, etc.

4. Proof of Purchase: The dealer's dated bill of sale must be retained as evidence of the date of purchase and to establish warranty eligibility.

5. Grey Market: All warranties apply only to PMI Audio Group Products purchased and used in the USA, and to PMI Audio UK Products purchased and used in the UK, EU and all other countries outside of the USA. All warranties apply only to PMI Audio Group/PMI Audio UK Products originally purchased from an authorized PMI Audio Group/PMI Audio UK dealer. PMI Audio Group/PMI Audio UK Product that was not purchased through an authorized and legitimate sales channel is considered "Grey Market". Warranties for PMI Audio Group/PMI Audio UK Products purchased outside their respective territories will be covered by the PMI Audio Group/PMI Audio UK Importer for that specific country or region. Products originally sold to the USA market and consequently resold overseas forfeit their warranty as do PMI Audio UK Products sold outside of the UK and Europe. American PMI Audio Group Dealers are expressly forbidden to export PMI Audio Group Products and PMI Audio UK Distributors and Dealers are expressly forbidden to export to North, South, Central and Latin America. "Grey Market" purchases are not covered by any warranty. In the case that a PMI Audio Group/PMI Audio UK Product must be returned to the factory from outside its respective territory, customer shall adhere to specific shipping, customs, and commercial invoicing instructions given with the Return Authorization as PMI Audio Group/PMI Audio UK will not be responsible for transportation costs or customs fees related to any importation or re-exportation charges whatsoever.

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