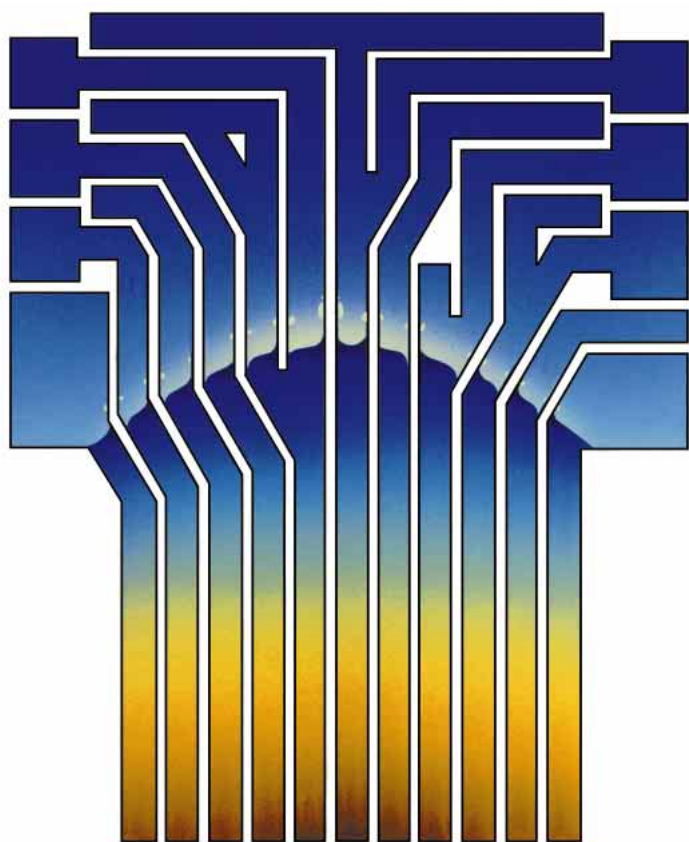




EMG
PICKUPS

THE WORLD LEADER IN ACTIVE PICKUPS
ELECTRIC • ACOUSTIC • BASS

EMG PICKUPS

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All pickups available in black. Some models in white or ivory.

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EMG Product Catalog v1.0
EMGOnline is at <http://www.emginc.com>

From the beginning ...



In the early 1970's Rob Turner developed the first "Active Pickup", and by doing so completely changed the fundamentals of pickup design. Those early pickup designs evolved into today's EMG Pickups, which are the standard by which all others are measured.

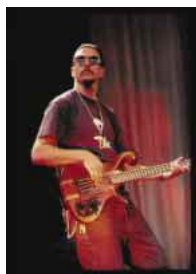
The original intent in designing the first EMG Pickup was to improve pickup tone, to create a pickup that translates instrument tone more realistically, and to make the instrument play and sound more musical.

There truly is no comparison between active EMG's and conventional pickups. EMG's frequency response is shaped much differently. Conventional pickups typically exhibit a dry "peaky" frequency response, while EMG's have a much broader bandwidth that's better for harmonic pull-offs and chord definition. Individual notes have better presence and are dynamic. Playing styles are more pronounced and different techniques can be easily accommodated.

The pickup designs used by the guitar companies are simply old technology. They are easy to design and inexpensive to produce, so there isn't any incentive to improve them. The problem for the player is that those pickups are as outmoded as black and white TV. Until you've experienced playing an EMG equipped instrument, you'll never know how great your playing can be.

By using an integrated preamp it's possible to achieve better results than when designing with magnets and wire alone. The internal preamp in each EMG Pickup assures quality of performance, full noise reduction, simplicity of installation, and much greater output.

Professionals all over the world rely on EMG for their performance in the studio and on stage. EMG's are being used for every kind of music, from Rock & Roll to Jazz. Even the best Country artists choose EMG because they need a great performance each and every time.

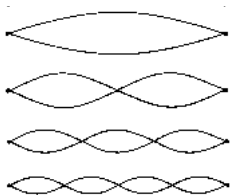


Playing an EMG

The Features and Benefits of Active EMG Design

A pickup is really the product of a design recipe. There are many elements and proportions that can be brought in to play. Each can have a great influence on the final result. Some pickups might have a great clean tone but too much high end for a sweet distortion. It all depends on the type of music you like to play and, much more, how you like to play it. Included here are a list of design considerations we use daily in our R & D efforts.

STRING INTERFACE

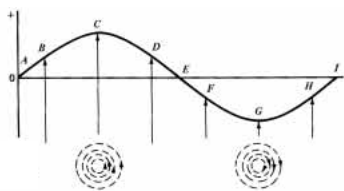


The first choice in design is the string interface. The selection of a bar magnet or individual pole pieces is an important one. All initial EMG designs used a bar magnet for two reasons. Pole pieces place too much magnetism under the strings and cause the lower ones (primarily low E, A, and D) to go "out of pitch" with a Doppler effect. This is especially true of the Fender Stratocaster* where 3 poles under each of the strings push and pull them through a variety of unnatural movements. Poles can also make intonation and tuning difficult. On the other hand, pole pieces have the benefit of a percussive attack giving the pickup much more of a "plucky" sound.

Designs featuring a bar magnet have a much more linear (balanced) output from string to string. Its attack is less pronounced than the pole piece design resulting in smoother distortion, and much better sustain. String bending is smoother because the output doesn't fade when you bend strings. By relying on the internal preamp for gain the bar magnet can also be smaller, further limiting the magnetic "pull" on the strings. And, the continuous magnetic field of the bar allows for any string spacing. Perfect for any multi-stringed instrument, and the less conventional instrument.

Most EMG Pickups use a magnetic bar. Single coil pickups are available in both bar and pole-piece designs. There are fewer negative attributes to the bar and it's preferable, but if you like pole-pieces for your playing style then there is an EMG model for you.

MAGNETS

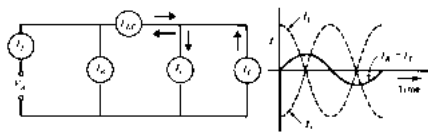


It's not really necessary for a pickup to have a magnet at all, but it helps. The magnet acts as the juice for the signal flow. The shape and type of magnet used in each EMG Pickup is different. Ceramic magnets don't affect the inductance of the coil but



have a much stronger magnetic field. Alnico material exhibits less magnetism yet greatly increases the inductance of the EMG design. Each has affect on the resultant output and frequency response of the pickup. The addition of steel poles (either bar or screw/stud) increase the inductance of the pickup design and further change the results.

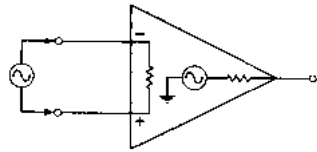
COILS



Tall and skinny, short and squat, long and wide, every EMG Pickup has two and they are the basis of each EMG. There are different types and sizes of magnet wire that can be used, combining their attributes with the shape of the coil has a tremendous affect on the tone. A long, skinny coil will have more resistance yielding less low frequency response, while a short, squat coil will have less resistance, and more inductance.

It's a balancing act to achieve the style of tone you want. In all cases, EMG Pickups have two coils. This is necessary for noise reduction, while providing the vehicle for the distinctive EMG tone. Coils are sometimes placed side by side, or stacked, but in both cases each coil is treated independently by the preamp. Instead of having the coils in series or parallel with a single output, they are electronically summed so their attributes can be controlled individually.

INTERNAL PREAMPLIFIER



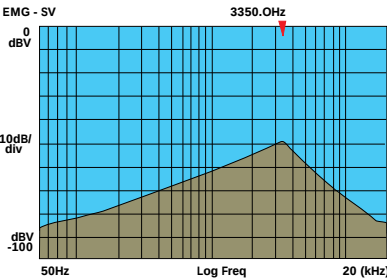
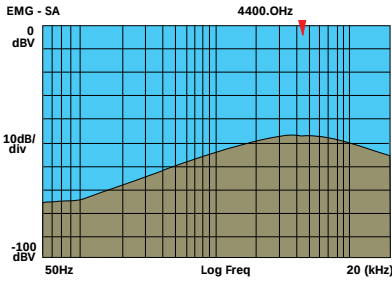
The preamplifier used inside each EMG Pickup is no ordinary pre-amp. Built directly into each pickup, the preamp is an integral part of the pickup design assuring quality of sound performance, incredible noise reduction, and simplicity in installation. It provides a variety of benefits for us as the designer and for you as the player. A natural by-product of the preamp is gain. It allows us to design a pickup for its particular tone without concern for the pickup's output. After the coils have been modeled, any amount of output needed is available from the preamp.

tone modeling

One of the most important aspects governing the tone of a pickup is the resonant frequency. EMG Pickups use "Impedance Modeling" to manipulate the two coils. This innovation allows us to shape a mix of the reactive slope and resonance from each of the two coils. The idea is to achieve a complex mixture of each coil's phase and frequency response resulting in a richer tone from the pickup. This means the sound is vibrantly alive with more harmonics than from conventional passive pickups. EMG Pickups like the EMG-S, EMG-SA, and the EMG-60 use this technique to its fullest, while the EMG-81 uses modeling in only a small way. It all depends on the final result we're searching for.



As you can see below, the frequency response of the EMG-SA compared

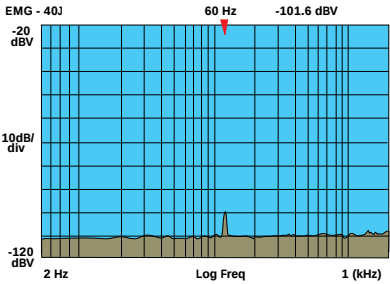


with the EMG-SV pickup is quite different. Each pickup design is approached differently. Modeling might work well for a single coil pickup, but not for a design such as the EMG-ACS Acoustic Sound Hole Pickup.

NOISE REDUCTION

Another benefit from the internal preamp is noise reduction. By integrating the preamp into the housing, all the elements of the pickup can be shielded. By matching the coils to a high degree the low frequency hum and buzz are virtually eliminated. In addition, each EMG is housed in a composite cover cap that eliminates all other forms of interference. Most EMG Models have noise figures of better than -85dB, still other EMG Pickups achieve a noise figure that exceeds -100dB.

This is a noise level unobtainable by any conventional passive pickup. Because of this noise reduction it's not necessary to ground the strings

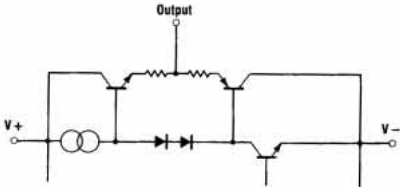


of the instrument, thereby avoiding a shock hazard from oppositely phased equipment such as PA Systems or other players' gear. All the internal components are fully vacuum-sealed and encapsulated in epoxy to prevent microphonic noise and to increase long-term reliability.

LOW IMPEDANCE OUTPUT

The low impedance output of the EMG internal preamp provides other great features. You can run a cable for up to 100 feet (30 meters) without losing high frequency response. You'll also be able to get the same tone with a wireless unit as you do with a cable.

The tone of your instrument will remain consistent when you change the volume control as well. Not only can you plug directly into your favorite amp, you can go



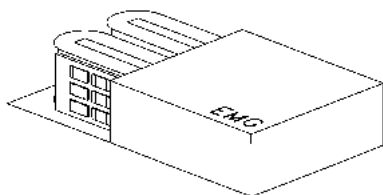
direct to tape preamp (especially for acoustic guitar recording) or direct to a mixing console input without a direct box. You can plug into any portable cassette recorder, or even your home stereo auxiliary input, and play your instrument with incredible results.

POWER

An instrument equipped with EMG Pickups requires power from a single 9 Volt battery. With two EMG Pickups installed, your instrument draws about 160 microamps of current. Even if you play eight hours a day, this small amount of current drain means that a battery will last up to a year. A single 9 Volt battery will power as many EMG Pickups and Accessory Circuits as you can fit in your guitar. Power to the pickups is turned off by unplugging the guitar cable from your instrument.

CONSTRUCTION

There is no other pickup built as well as an EMG. The coils are precision wound, matched both resistively and inductively, and finally, vacuum sealed. All internal preamplifiers are Surface Mount Technology (SMT) for quality and reliability. Each pickup is tested for audio quality and reliability before encapsulation and again before shipment.



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EMG, THE WORLD LEADER OF ACTIVE PICKUPS



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EASY INSTALLATION

EMG's are easy to install. Each pickup features EMG's own Quik-Connect header and mating cable for quick installation. Included with each pickup are pre-wired volume and tone controls, battery clip, output jack, and diagrams. All models are designed for direct replacement into most standard instruments. There are instances where "direct" replacement isn't possible, but a minimum of work should be required.



A WORD OF THANKS

We have you, both aspiring and professional musicians alike, to thank for our success. We hope this edition of our catalog will help you to learn more about EMG Pickups and Accessory Circuits. If you play EMG's now, you're already familiar with the distinct advantages they have to offer. If you're ready to buy your first EMG, you'll find out what great sound and high quality in a pickup means. When you buy an EMG, you're backed by the factory whether you have a question about choosing a pickup, or need help with a complex wiring diagram. EMG's experienced technicians are ready to help you anytime.

This catalog has been created for you, the musician, so you can easily choose the EMG Pickup that's right for you and your style of playing.



All of the information contained in this catalog is available at the EMG website. There are technical bulletins about a variety of EMG applications, and an entire list of "Frequently Asked Questions" (FAQ's). Typical emginc.com items include:

- New Product Releases
- The latest EMG News
- Artist Gallery - Backstage Access
- Installation Diagrams
- Worldwide "Where to buy" listings



EMG has supported and updated emginc.com since March of 1996. The website can actually be kept more current than a printed catalog can. It's truly the best world-wide source of information about EMG.

In addition to the archived information on the website, it is also a portal for contacting EMG via e-mail. For example, you can get advice for a custom installation, find out more about which EMG can give you the "kind of sound" you're looking for, or get in touch with EMG's Custom Shop about having something special made just for you. Also, you easily locate your nearest EMG Dealer.

We're always adding content to emginc.com. If you have some ideas about what you'd like to see on the EMG Website, or if you think it's missing something, let us know.



<http://www.emginc.com>



[illegible]

PARTICIPANTS



E M G - 8 1



The EMG-81 is a high output pickup designed especially for the lead guitarist. It was actually developed in 1979 along with the EMG-58. Like most EMG's, it wasn't heavily advertised until 1981. The EMG-81 has the familiar U-shaped humbucking structure but replaces the pole pieces with steel bars and a smaller ceramic magnet. The EMG-81 is at its best for high volume overdrive. It has become the choice for metal and extreme players alike, Kirk Hammett from Metallica and Kerry King of Slayer to name only two.

Distortion during lead passages is consistent, sustain is long and the breakup fades smoothly. The ceramic magnet in combination with wide aperture steel poles lend a quick attack but the tone stays nice and fat at the same time. Perfect if you're the only guitarist in the band, and need to switch from rhythm to lead and still keep the band moving. Another great thing about the EMG-81 is it's quiet. If you're playing at really high gain the last thing you need is noise.



SPECIFICATIONS:

Logo Color:	Silver
Resonant Frequency (Khz)	2.25
RMS Output Voltage	1.25
Peak Output Voltage	1.75
Output Noise (dBV)	-91
Output Impedance (Kohm)	10
Current @ 9V (Microamps)	80
Battery Life (Hours)	3000

If you're looking for exceptional qualities in a high output pickup, the EMG-81 is the one. Two 81's are featured in Kirk Hammett's Signature ESP Guitar, the KH-4. The EMG Pro-Series KH-21 also features Kirk's usual dual 81 set-up for retrofit into any Stratocaster* style guitar.





The EMG-85 was developed as a replacement for our original EMG-58. We still manufacture the EMG-58 on occasion (see the Custom Shop section), but the newer EMG-85 is different than the original 58. Both models have characteristics that are admirable, but the 85 won out in the end. Although the EMG-85 has more measurable output than the 81 its frequency response and string interface are different. The 85 uses two Alnico magnet loaded coils with a wide aperture to maintain a beefy low-end and a fatter top end. It's a perfect choice as a rhythm pickup in combination with an 81 in the bridge, which is the same pickup combination used by Zakk Wylde. The midrange has better definition and doesn't get foggy or muddy in the rhythm position either. Steve Lukather uses the 85 as his lead pickup in the bridge position of his Ernie Ball Signature "Luke" model. It has loads of output and isn't muddy. The

SPECIFICATIONS:

Logo Color:	Gold
Resonant Frequency (Khz)	2.55
RMS Output Voltage	1.25
Peak Output Voltage	1.75
Output Noise (dBV)	-89
Output Impedance (Kohm)	10
Current @ 9V (Microamps)	80
Battery Life (Hours)	3000

85 has a natural tone that works great as a rhythm and blues pickup. It appeared on the later Guild Bluesbird (designed by George Gruhn) model which was a favorite of blues player Buddy Guy for years. The EMG-85 works best if you like the natural distortion that comes from overdriving the front end of your amp. Under any conditions it responds accurately to your technique.





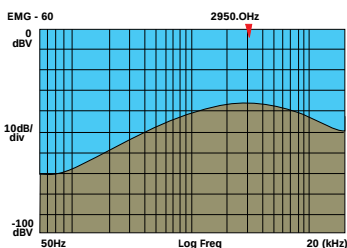
E M G - 6 0

James Hetfield's signature ESP models JH-2 and JH-3. Its distinctive crunch sets any rhythm player apart in the mix of a band that pumps a lot of mid-range from the stage. With a distinctive tone for soloing, the 60 works perfectly as a clear but fat lead pickup.

The resonance slope is steeper but the peak is higher than other EMG Models. The 60 is the result of a lot of input from different people. It is probably the most versatile humbucking pickup we make, but doesn't get the recognition it deserves.

SPECIFICATIONS:

Logo Color:	Gray
Resonant Frequency (Khz)	2.95
RMS Output Voltage	1.0
Peak Output Voltage	3.0
Output Noise (dBV)	-89
Output Impedance (Kohm)	10
Current @ 9V (Microamps)	80
Battery Life (Hours)	3000



And now for something completely different. The EMG-60 was originally designed for Fender in 1979 and was to be featured on the Tele-Elite* Model as a mini-humbucking pickup. Fender changed their plans so we released the EMG-60 in a full size humbucking housing. The EMG-60 still features the close aperture coils loaded with ceramic magnets for the brightest attack of any of our many humbucking models. Yet the EMG-60 packs plenty of output with both clarity and cut through high end.

The EMG-60 is incredible for rhythm guitar as metal and extreme players have discovered. After many years the EMG-60 has found its rightful home on





E M G - 8 9

The EMG-89 Dual Mode Pickup has been through two generations. Our original Dual-mode (EMG-DM) design was incredibly sophisticated for its time (1979). The DM was an 18-Volt model with a single output available only in an Alnico magnet version. The EMG-DM was abandoned in late 1985, but the concept was revived early in 1989 when we came upon a more innovative design featuring "two pickups in one", the current EMG-89.



Inside the EMG-89 pickup are both single and dual-coil pickups, each with it's own output. The single-coil mode is an Alnico loaded stacked EMG-SA. The dual-coil mode consists of two Alnico loaded coils opposite one another creating a pickup similar to the EMG-85. A push/pull volume (or tone) pot allows you to change from the clarity of a single-coil to the fatness of a humbucking. The EMG-89's separate outputs give you option to utilize EMG tone enhancing accessory circuits on either pickup output.

SPECIFICATIONS:	Single-Coil	Dual-Coil
Logo Color		Copper
Resonant Frequency (Khz)	3.75	2.55
RMS Output Voltage	0.6	1.0
Peak Output Voltage	0.85	1.75
Output Noise (dBV)	-94	-99
Output Impedance (Kohm)	10	10
Current @ 9V (Microamps)	160	160
Battery Life (Hours)	1500	

You can add the SPC Presence Control, the EXG expander, or the PA2 preamp booster onto either single or dual coil outputs or both. Like all EMG's, the 89 is virtually noiseless in both modes.





E M G - 9 1

Before EMG was even conceived, Rob used to repair amplifiers. One of his first customers was Ron Eschete, a jazz guitarist in Southern California. Ron was playing and teaching at World of Strings in Long Beach and played a Benedetto Archtop. Ron has remained a great friend, and was the first to get the original EMG-91 Archtop Pickup made. He still uses it. Eventually turned into a production model in 1991, it was the first "floating" pickup to give archtop players the benefits of a low-impedance pickup.

The EMG-91 is the first EMG Pickup that wasn't designed for Rock and Roll, and gave us the opportunity to really stretch out. Using Alnico magnets and a specially designed internal preamp, the EMG-91 produces a naturally warm, present tone reminiscent of some of the older floating pickups. The broad bandwidth and resonance curve of this pickup draws out the instrument's natural tone. The result is warmth with just the right touch of fidelity. Remarkably thin (only .400" 10.5mm) it will fit comfortably at the end of the fingerboard and not interfere with string or top vibrations.

The installation of a 9-Volt battery has always been of concern to archtop players and builders alike, but the results achieved with the EMG-91 are well worth any extra effort the battery might require. Small (16 mm) volume and tone controls are included. Both a standard side mounted jack, long panel jack, or the EMG Ultrajak can be included along with a standard 9 Volt battery clip. The EMG-91 is available with a mounting bracket (screws included) that attaches to the fingerboard.

SPECIFICATIONS:

Logo Color:	Gold
Resonant Frequency (Khz)	2.75
RMS Output Voltage	0.7
Peak Output Voltage	1.0
Output Noise (dBV)	-90
Output Impedance (Kohm)	10
Current @ 9V (Microamps)	80
Battery Life (Hours)	3000

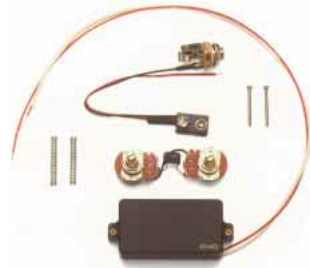




E M G - H

E M G - H A

The model H was EMG's original single-coil pickup design. Its original debut was in 1974 as the first noiseless single coil pickup. At that time the humbucking designs we now make weren't even imagined. The H and HA Models were built into humbucking housings for Newman Jones, a guitar builder in Austin, Texas. Newman needed a pickup that didn't have pole pieces for Rolling Stone Keith Richards who plays five string guitar.



Newman wanted a single coil sound, but wanted the pickups to be in a humbucking housing. We obliged. The EMG-H's features include the widest possible frequency response for clarity, and a rich blend of related harmonics. The EMG-HA on the other hand is virtually the same pickup but we simply replace the ceramic magnet with an Alnico for added warmth. Either is an excellent choice for the rhythm guitarist who needs added definition for chording, or for lead work when the bright attack of a single coil pickup is called for. The Newman guitars were outfitted with the H in the rhythm position and the HA in the bridge.

SPECIFICATIONS:

	EMG-H	EMG-HA
Logo Color	White	Gold
Resonant Frequency (Khz)	4.35	3.75
RMS Output Voltage	0.6	0.6
Peak Output Voltage	0.85	0.85
Output Noise (dBV)	-89	-90
Output Impedance (Kohm)	10	10
Current @ 9V (Microamps)	80	80
Battery Life (Hours)	3000	

Model EMG-H is the same as the EMG-S, while the EMG-HA is the same as the EMG-SA. The only difference is the humbucking housing.





Our most popular system for Stratocaster* type guitars was originally developed in 1974 but was redesigned along with all the other models in 1979. It was voiced with the help of guitar Repairman/Luthier John Carruthers and his professional clientele. The first professional who spread the gospel about the EMG-SA was Peter Frampton who visited us in 1979. By 1985, Peter had turned Steve Lukather on to the system along with a host of others. We can't recall when David Gilmour got his first SA System, but Rob remembers delivering a system in L.A. for David and meeting Phil Taylor (David's main man) for the first time. Over the years we've sent David all of the newer models, but he's maintained his support of the SA System, thus the DG20 (see the Pro-Series Section).

The EMG-SA combines the attributes of the early Strat* sound but with an added midrange response and higher output. It's "bell-like" ringing harmonics and increased sustain give the SA greater versatility than normally found in single-coil pickups. A single Alnico bar magnet delivers classic overdrive with a smooth midrange distortion, while still retaining the familiar high-end of a single-coil pickup. The internal preamp rejects every bit of hum and buzz for noiseless operation.

The EMG-SA is available individually or as a preassembled set with volume and tone controls, five-position switch which is all ready to mount onto your pickguard. Only three connections are necessary to complete the assembly. Or, you can choose one of the ready to mount Pro-Series Custom systems.

SPECIFICATIONS:

Logo Color:	Gold
Resonant Frequency (Khz)	3.75
RMS Output Voltage	0.6
Peak Output Voltage	0.85
Output Noise (dBV)	-90
Output Impedance (Kohm)	10
Current @ 9V (Microamps)	80
Battery Life (Hours)	3000





The EMG-S features the same construction as the EMG-SA but replaces the Alnico magnet with ceramic. It has the equivalent output of the EMG-SA but the EMG-S features a brighter tone quality accentuated in the upper middle to high frequency response (similar to later model Strat pickups). By using the EMG Tone Modeling technique, the EMG-S has a "sparkle" with added definition for depth and increased sensitivity. Country artists such as Vince Gill prefer the EMG-S (see the VG20 Pro-Series) because it can translate a player's technique faithfully. Vince starts with the clear, distinctive tone of the EMG-S and adds the EMG-SPC Presence Control to make his guitar even more versatile. Our Kirk Hammett Pro-Series Model KH20 features two EMG-S Pickups that he spec'd on his first visit to EMG. With its accent on high frequency, the EMG-S has that classic single-coil sound without the disadvantages of high impedance single-coil design. If you want a pickup that cuts through and lets your technique shine then the EMG-S is for you.

Each EMG-S set includes a five-position selection switch, volume and tone controls, and output jack that's ready to install onto your pickguard with only three solder connections required. Or, you can choose one of the ready to mount Pro-Series Custom systems.

SPECIFICATIONS:

Logo Color:	Silver
Resonant Frequency (Khz)	4.35
RMS Output Voltage	0.6
Peak Output Voltage	0.85
Output Noise (dBV)	-90
Output Impedance (Kohm)	10
Current @ 9V (Microamps)	80
Battery Life (Hours)	3000





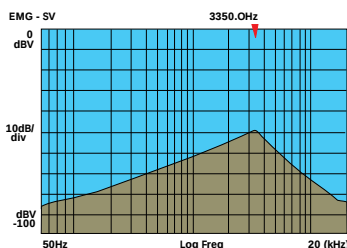
E M G - S V

In 1993 we decided to go through a renaissance of our own when the "Retro" trend was taking place in the guitar industry. It was time to visit EMG's own "Vintage Vault", after all we'd been in business for 17 years. After so many years, why not stretch out, the last thing players would expect from EMG is a "Vintage" Pickup. We decided to develop the EMG-SV and give it the same original string interface: staggered Alnico 5 pole pieces. But that's where the similarities end. We tone modeled the EMG-SV after the 1959 Strat with that familiar peaky response at around 3000 Hz. The EMG-SV has that "plucky" percussive attack, but has a much smoother, less scratchy distortion sound, and more output. It's truly a marriage of vintage magnetic design and state of the art electronics.

We also used the SV as the vehicle to further propel EMG into a new era. The SV is the first EMG to feature a totally new preamp that breaks the noise barrier beyond -100dBV. It's so quiet it's impossible to tell the guitar is even plugged in at high gain levels. It's also the first pickup to use the Quik-Connect system that allows you to swap pickups easily. If you're looking for a pickup that departs from the usual stop, but takes a different route, the EMG-SV is a perfect choice.

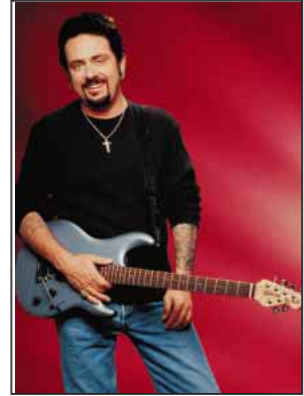
SPECIFICATIONS:

Logo Color:	Gold
Resonant Frequency (Khz)	3.20
RMS Output Voltage	0.7
Peak Output Voltage	1.0
Output Noise (dBV)	-115
Output Impedance (Kohm)	5.0
Current @ 9V (Microamps)	220
Battery Life (Hours)	1200





(shown in Ivory)



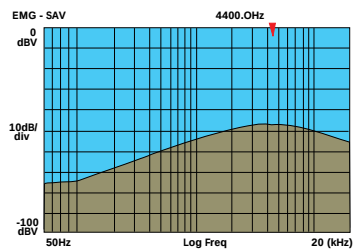
Steve Lukather

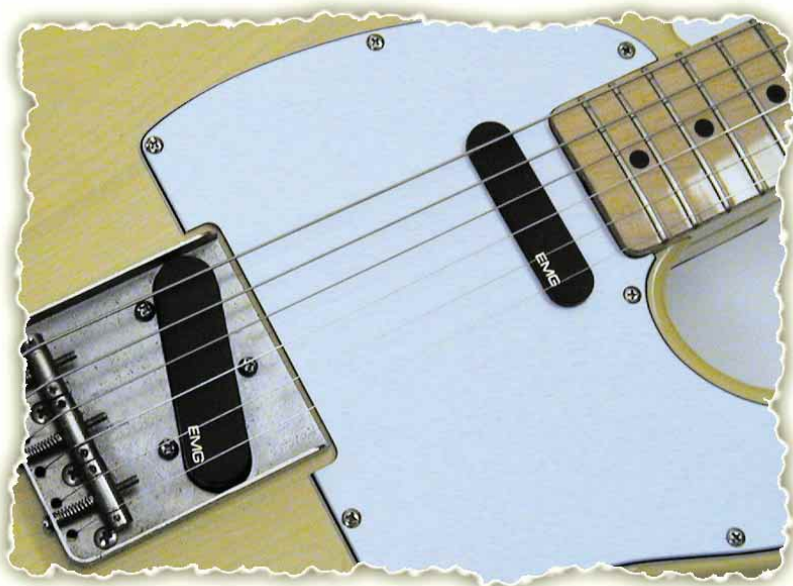
EMG - SAV

We've worked with Steve Lukather of Toto for over 13 years now and the latest result is the EMG-SAV. Steve's playing style and writing have produced several Grammy's that we're proud to be a part of. We'll develop just about anything Steve wants (within reason) and that's just what happened when Ernie Ball was revising the "Luke" Guitar. Steve along with Dudley Gimpel from Ernie Ball figured they'd try some new things on the Luke. Dudley told us they were trying pickups from other makers and we had to deliver something great to stay in contention. We developed the SAV, but for Steve we added our special touch. The windings were increased for a meatier tone and we hid away the pole pieces for a more uniform look to the instrument (see the SL20 Pro-Series). Steve has always played a specially overwound SA Pickup, so we used the original preamp from the SA pickup with flat Alnico 5 pole pieces hidden under the cover cap. The SA preamp gives the SAV its classic EMG sound while the flat poles put the pickup closer to the strings for more output and a punchier attack. The current EB Luke Guitar uses the model spec'd by Steve we call the SLV. Steve's still with us, once an EMG Player, always an EMG Player.

SPECIFICATIONS:

Logo Color:	Gold
Resonant Frequency (Khz)	3.75
RMS Output Voltage	0.7
Peak Output Voltage	1.0
Output Noise (dBV)	-90
Output Impedance (Kohm)	10
Current @ 9V (Microamps)	80
Battery Life (Hours)	3000



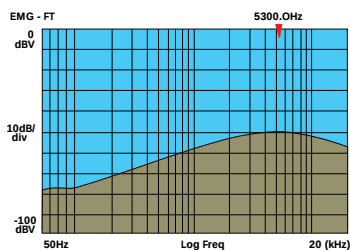


E M G - T

The EMG-T is our two pickup replacement system for Telecaster* guitars. Designed with Alnico magnets, the EMG-T puts the EMG fullness and broad bandwidth into the Telecaster that it never had. The rhythm pickup (EMG-FT) is undoubtedly the best pickup we make. All the elements are in the right proportion; magnet choice, coil size, amount of turns, and good luck have given the EMG-FT the sweetest sound of any EMG. Emmett Chapman has adapted the FT to his latest "Stick" Design because of the beauty of its tone. The EMG-RT bridge pickup is much larger so its qualities are quite different than the FT. The EMG-RT has a fatter sound yet still has that familiar bite and clarity for that classic Tele* tone. Each of the EMG-T Pickups are fully noiseless without the typical hum, buzz or microphonic squeal.

SPECIFICATIONS:

	EMG-FT	EMG-RT
Logo Color	Gold	Gold
Resonant Frequency (Khz)	4.85	3.70
RMS Output Voltage	0.52	0.75
Peak Output Voltage	0.75	1.0
Output Noise (dBV)	-89	-90
Output Impedance (Kohm)	10	10
Current @ 9V (Microamps)	80	80
Battery Life (Hours)	3000	3000





E M G - T C

Swap the Alnico magnets with ceramics and you have the TC. This two-pickup system is geared towards the high end with less emphasis on the mids. The EMG-TC features a bright, clear, penetrating high end that's as naturally bright as we could design it without losing the harmonic sweetness typical of EMG designs. The lead pickup (EMG-RTC) has the tone you expect. It has a bright top and a tight bottom that takes you out front when you need it. Like the EMG-T, the EMG-TC has a rhythm pickup (EMG-FTC) that gives the whole guitar a better balance. Brilliance, clarity, and tone with clean quiet power. In addition you can add any of the EMG accessory circuits and take it even further. All in all, it's a tight, bright, aggressive sound.

Both the EMG-T and TC Systems are ready to install. Each pickup is packaged complete with prewired volume and tone controls, three-position selection switch, instructions, and wiring diagram.



SPECIFICATIONS:	EMG-FTC	EMG-RTC
Logo Color	Silver	Silver
Resonant Frequency (Khz)	5.3	4.35
RMS Output Voltage	0.52	0.75
Peak Output Voltage	0.75	1.0
Output Noise (dBV)	-92	-91
Output Impedance (Kohm)	10	10
Current @ 9V (Microamps)	80	80
Battery Life (Hours)	3000	3000





EMG - SL20

THE PRO SERIES

This EMG SL20 Steve Lukather System is equipped with an SLV/SLV/85 pickup mix wired up with a single master volume and tone. Clean and simple. The SLV is a custom pickup designed for Steve and is available only in this "Pro Series" System, or if you buy an Ernie Ball "Luke". The SLV is an over-wound version of our new SAV Pickup and features hidden pole pieces. The over-winding creates an even fatter tone to match up with the EMG-85 Humbucking. The SL20 also features the EMG-85 Humbucking that Steve had a hand in developing. The SL20 system is mounted on a Black Pearl pickguard with black knobs. Installing the SL20 in your instrument won't guarantee you a Grammy award, but it's a great way to get started.



EMG-SL20
SLV/SLV/85 Black
Volume & Tone Pots
Black Pearl Pickguard
Black Knobs

These completely wired systems feature the same legendary pickups used by four of EMG's top artists. Each Pro Series System is mounted on a custom pickguard so all you have to do is drop it into your Strat*. Now you can share in the legend. You can choose from the Pro Series setups of David Gilmour, Vince Gill, Steve Lukather, or Kirk Hammett. We chose artists that cover a broad range of musical styles who have been loyal EMG users for a number of years. It's truly a pleasure to have these performers support EMG in this way. Thanks!





EMG - K H 2 1

THE PRO SERIES

Kirk is truly the soloist of the decade and the KH21 is the tool. This system is a simple EMG-81/81 combination wired straight up with two volumes and a master tone. Lean and mean. Kirk first visited EMG back in the early 80's when Metallica was a local group on the rise. At that time Kirk was playing a Strat* equipped with an S/S/81 that we originally released as the KH20. Since then, Kirk has left the S's and club playing behind and moved to EMG-81's and the arenas.

Now it's the KH21. The sheer volume and amount of sound coming from the Metallica stage is incredible. The demands made on every piece of gear are extreme, it's no wonder Kirk has come to rely on EMG. The KH21 features a pearl laminate pickguard complimented with black dome knobs. Kirk's earlier system, the KH20, is still around but we've moved it to the "Pro Series Custom" section of the catalog where you can choose to add any EMG Accessory and put together a system of your own.

Kirk Hammett



EMG-KH21
81/81 Black
2 Volume & 1 tone Pot
White Pearl Pickguard
Black Knobs

These completely wired systems feature the same legendary pickups used by four of EMG's top artists. Now you can share in the legend.





EMG - V G 2 0

THE PRO SERIES

This "Pro Series" system is the same as the one mounted on Vince's main black Strat*. Featuring our EMG-S single coil pickups for a clean start, Vince uses the SPC Presence control so he can dial-up extra output and crunch whenever he wants. Mounted directly on a Tortoise Shell pickguard the EMG-VG20 is configured with master volume, master tone, and the SPC replacing the standard rear tone control. EMG-S

Pickups feature a ceramic magnet that have a snappy high end with very defined mids and lows. This is one clean system. Vince isn't only the consummate country performer, he's a great Rock and Roll guitar player. If anybody can put a system through the changes, it's Vince. The VG20 is perfect for the studio and even better in live performance, as proven by Vince. Now if you could only sing like him!

Vince Gill



EMG-VG20
S Set Black
SPC Presence Control
Volume and Tone Pots
Tortoise Pickguard
Black Knobs



**All Systems feature EMG's own Quik Connect Cable System.
Make sure and check out the Pro-Series Custom page.**





EMG - D G 2 0

THE PRO SERIES

David has used this same EMG System for close to 15 years on his main red Strat. The DG20 comes with ivory SA single coil pickups, wired with an EXG Guitar Expander, an SPC Presence Control, and master volume all on a deluxe White Pearl pickguard with white knobs. The SA single coil pickups feature Alnico magnets which give a full round tone with an accentuated mid range. The EMG-EXG Guitar Expander circuit increases the bass and treble while reducing the mids, perfect for chord definition at higher volumes. The SPC makes the SA's sing by boosting the mids and turning your single coils into full blown humbuckings. Now you can have the same pickups and tone accessories as David, but keep practicing if you want to get to the "Dark Side of the Moon".

David Gilmour



EMG-DG20

SA Set Ivory

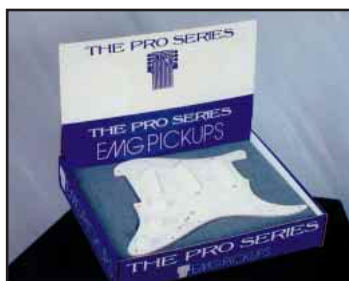
SPC Presence Control

EXG Guitar Expander

Volume Pot

White Pearl Pickguard

White Knobs





C o m b i n a t i o n S y s t e m s

Back in the early 80's the idea to add a humbucking pickup to a Stratocaster* caught fire. In response to that demand we released two pre-wired combination systems, the SA/SA/81 and the SA/SA/85. Since then we've added just about every conceivable combination you can think of, and they're all available factory pre-wired. Once you've decided on the system you want, it can either be fully or partially assembled depending on how your guitar is setup. Since all EMG's use the Quik-Connect system you can change your system at any time without any soldering.

To get even more out of your guitar why not replace the tone control(s) you never use with something that can really change the tone of your instrument? It's easy to add any one of the EMG Accessory circuits like the EMG-SPC, RPC, or the EXG to an EMG Combination System. You can boost the Mid-Range with the SPC, use the RPC as an active treble boost, or add presence with the EXG. By mixing two of the accessory circuits your instrument can be highly individual and unique.



The Combination Systems and Options are just the beginning. You can choose a complete system wired onto a pickguard of your choice by going with any of the Pro-Series Custom (PSC) Systems. No matter how
26 you want or need it, we can put it in your hands.

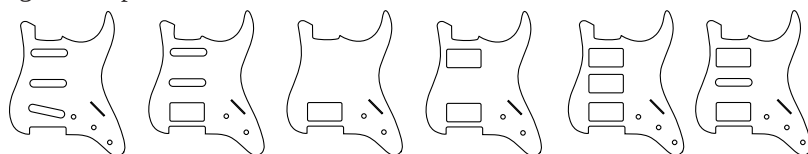




EMG - P S C

Pro-Series Custom

EMG pioneered the direct replacement Pickup Systems and now we've taken it an extra step and let you put together your own Pro-Series Custom System. Once you've decided on the system you want, we prewire it at the factory, or if your guitar doesn't have a pickguard you can purchase a partially assembled system. Virtually any combination of EMG Pickups and accessories can be put together. At the same time you can choose from 5 different pickguards (11 hole) and choose any wiring arrangement possible.



CHOOSE FROM ANY ONE OF FIVE PICKGUARDS

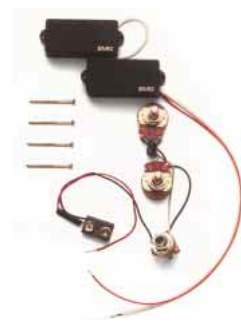
BLACK PEARL • WHITE PEARL • TORTOISE SHELL • BLACK/WHITE/ BLACK • WHITE/BLACK/ WHITE
ALL PICKGUARDS ARE THREE PLY LAMINATES ALL PSC SYSTEMS AVAILABLE LEFT HANDED

All EMG Pickups use the Quik-Connect installation system so you can move pickup models around and experiment. Everything is taken care of, all you have to do is remove your old pickguard and install your custom system. The Pro-Series Custom provides the ultimate in EMG Pickup Systems, because you tailor your sound to what you want.

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EMG Product Catalog v1.0
EMGOnline is at <http://www.emginc.com>



E M G - P



The Bass pickup of choice since it was developed. The EMG-P, like all the original EMG's, went through a redesign in 1979.

The original "Embossed EMG Logo" model made everybody sit up and listen. The pre-79 models are still used by players like Lee Sklar and Alphonso Johnson. More than just a few have gravitated to the EMG-P for stage performance and studio recording. The EMG-P uses short, squat coils that have very little resistance and plenty of inductance. Because the coils are not in series like the passive types, there's about twice as much low end as a passive pickup. Ceramic magnets are used to add clarity. Countless pros use it because they find it has a natural presence, powerful lows, punchy mid-range, and superior definition.

The EMG-P features hum-free noiseless operation with an even timbred response. The P design was adapted for Ned Steinberger and became the EMG-SS (Steinberger Sound) used exclusively on the Steinberger Headless Bass. In order to make the composite bass sound more natural, we added steel poles for warmth and midrange. In addition to the standard EMG-P Pickup, the EMG-P5 and EMG-P6 are available for use in five and six string basses respectively. Maximum overall string spacing for the EMG-P5 is 2.6 inches (66mm), and for the EMG-P6 is 3 inches (76mm).

SPECIFICATIONS:

Logo Color:	Silver
Resonant Frequency (Khz)	4.5
RMS Output Voltage	1.0
Peak Output Voltage	1.4
Output Noise (dBV)	-90
Output Impedance (Kohm)	10
Current @ 9V (Microamps)	80
Battery Life (Hours)	3000

Special Note: If you already have the EMG-P installed and you want to expand your instrument's range, you can add the EMG-LJ alone, or along with our tone enhancing BT or VMC circuits to give even more added dimension and power to your bass.





Victor Wooten

E M G - P J

Three time Bass Player Magazine's "Player of the year" Victor Wooten knows a thing or two about playing bass. Victor has been using EMG's since he got his first Fodera bass years ago. Victor plainly states that EMG Pickups have helped him achieve his tone and refine his technique.



The EMG-PJ combines the EMG-P and a single EMG-LJ unit in a complete assembly giving you improved flexibility for new dimensions of sound. The PJ enables a wide range of tone blends from your bass. The EMG-P has a full complement of low register power. The EMG-LJ provides a full midrange and extended high frequency response for a well defined attack. Used separately, or in combination, they offer a flexible selection of bass tones, accommodating both new and traditional bass playing styles. The result is pure capability; the capacity to produce everything from tight slap funk to smooth Motown groove, all with a sound that'll set you apart. The PJ comes with a prewired control set that includes dual volume controls, master tone control, battery clip and output jack.

SPECIFICATIONS:

	P	J
Logo Color	Silver	Silver
Resonant Frequency (Khz)	4.5	4.8
RMS Output Voltage	1.0	0.8
Peak Output Voltage	1.4	1.1
Output Noise (dBV)	-90	-91
Output Impedance (Kohm)	10	10
Current @ 9V (Microamps)	80	80
Battery Life (Hours)	3000	3000





E M G - J

Sweeping harmonic overtones and clarity, the EMG-J has a full bodied sound that adds new dimensions to your bass playing. Whether you play fretted or fretless bass, you'll get incredible sound yet retain that traditional tone. The original Fender Jazz Bass* pickup is a long, tall, thin pickup. That's why it has such a distinctive tone. The winding length of the coil is about 6 inches per turn resulting in a pickup that has a high DC resistance compared to its

inductance. Its aperture is small for long wavelengths so there's less low frequency punch and an accentuated mid-range howl. The EMG-J Pickups on the other hand, have a very low ratio of resistance to inductance that increases the low frequency response yet the EMG-J still maintains the narrow aperture for that typical Jazz Bass tone. Instead of the side by side Pole pieces the EMG-J uses a single-pole crescent shaped magnetic field to complement the radiused fingerboard. The result is a balanced output across the strings, and a linear attack from note to note. In addition to its standard four string capability, the EMG-J allows adaptation to use five strings.



SPECIFICATIONS:

Logo Color:	Silver
Resonant Frequency (Khz)	4.8
RMS Output Voltage	.8
Peak Output Voltage	1.1
Output Noise (dBV)	-91
Output Impedance (Kohm)	10
Current @ 9V (Microamps)	80
Battery Life (Hours)	3000
Length	Inches (mm)
Neck	3.61 (92)
Bridge	3.71 (94)

Recommended maximum overall string width, however, is 2.75 inches (70 mm). The EMG-J comes complete with a prewired harness including dual volume controls, master tone control, output jack, battery clip and pickup adjustment screws. Also available as a separate unit is the EMG-LJ, which is the longer of the two pickups in the EMG-J Set and is usually located in the bridge position.





E M G - J V



The EMG-JV was a part of EMG's 1993 renaissance visit to the "retro" vault. The JV uses a mixture of the old, new, and late model design ideas. The interface: original "offset" Alnico 5 pole pieces. The coils come from the EMG-J design, while the preamp is the newer ultra-low noise (>-100db) design adapted for bass from the EMG-SV.

We developed the EMG-JV to deliver the classic tone and look of the traditional Jazz Bass* and maintain the "faded" attack of the offset pole pieces in combination with our lowest noise preamp. The EMG-JV should appeal to the "retro" in you, while the coil and electronic design will convince you that this is a pickup to be seriously considered.

Tone modeling isn't used in the JV, the natural resonance of the coils and their mix has the typical peak of the original Fender Jazz Bass*. This could be just what you're looking for in a fretless pickup. The JV also features our Quik-Connect cable system so you can swap it with any other J model pickup we make now or develop in the future. Also available as a separate unit is the EMG-LJV, which is the longer of the two pickups in the EMG-JV Set.

SPECIFICATIONS:

Logo Color:	Gold
Resonant Frequency (Khz)	2.25
RMS Output Voltage	0.6
Peak Output Voltage	0.85
Output Noise (dBV)	-110
Output Impedance (Kohm)	2.0
Current @ 9V (Microamps)	220
Battery Life (Hours)	1200
Length	Inches (mm)
Neck	3.61 (92)
Bridge	3.71 (94)



E M G - E x t e n d e d B a s s S e r i e s



Four Internal Designs:

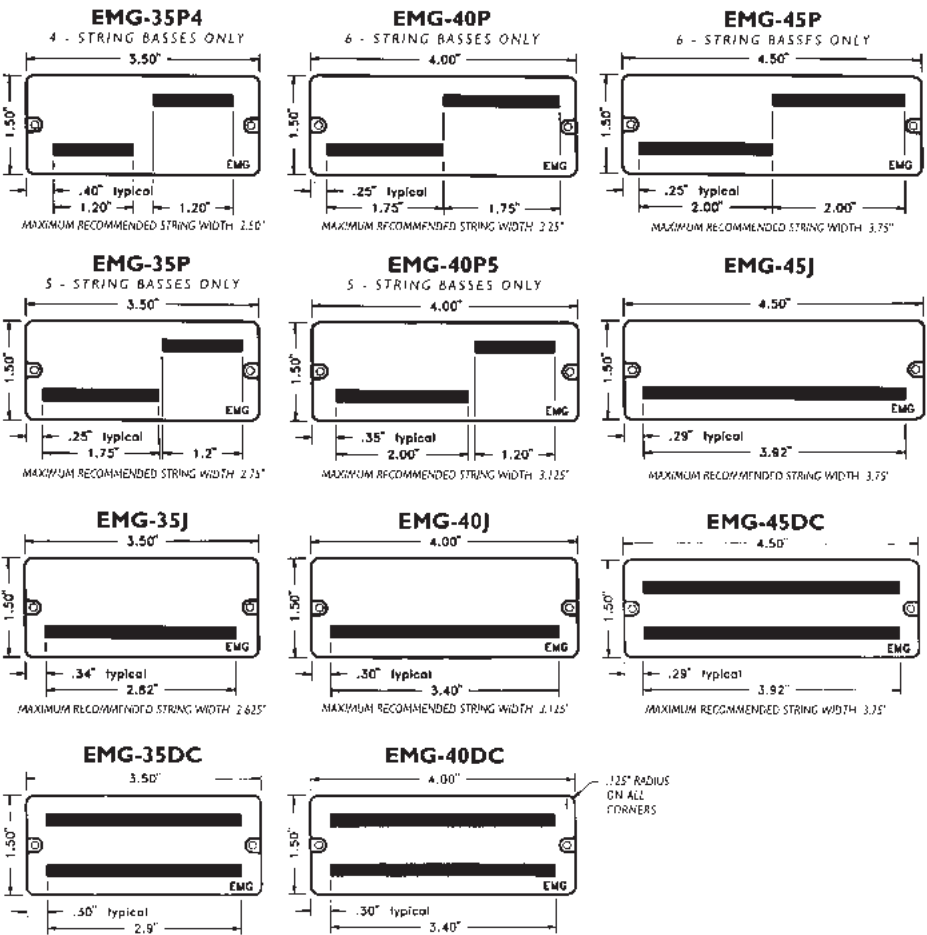
- 1)** The P designs have two offset coils that result in more low end with brilliant highs. These models are as described in the EMG-P.
- 2)** The J designs use a single coil design which has a less powerful low end but a more prominent midrange. These are described in the EMG-J section of the catalog.
- 3)** The DC (Dual Coil) employs parallel placed coils (ceramic loaded) to produce a deep low end, and yet maintain clarity. All of the DC Models are beefy, brilliant, and have more than enough output. The DC also uses the ultra low-noise preamp designed for the EMG- JV model. We recommend an 18 Volt supply for extended head room.
- 4)** The CS (Ceramic & Steel) models use parallel placed coils like the DC but are loaded with steel. The CS's are much warmer as a result of higher inductance, have a smoother attack and a flatter high end. They are the most "Traditional" sounding of the group. 18V supply recommended.



Three Housings:

There are three different housings so you can choose the pickup size that's just right for your instrument. Check out the complete configuration drawings to determine which pickup is right for your string arrangement.

Whether you have narrow or wide spacing, 4, 5, or 6 strings, or want your instrument to look up to date, there's an EMG Extended Series Pickup for you. The 35 Extended housing is 3.5 inches (89mm) The 40 Extended housing is 4 inches (102mm) The 45 Extended housing is 4.5 inches (115mm)



All Extended Series models are available in CS (Ceramic & Steel) versions.





E M G - A C S



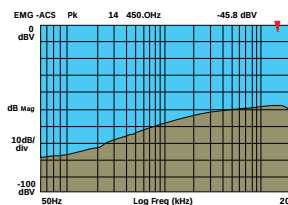
The EMG-ACS has already become the pickup of choice for acoustic artists. Champion fingerstylist Pat Kirtley is only one of many players who have discovered the ACS. The perfect mix of EMG Technology and design come together in the ACS Acoustic Sound



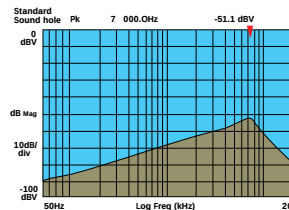
Hole Pickup. Only an active design can deliver the kind of frequency response, output, and quiet performance needed in a sound hole pickup. The ACS employs a unique internal preamp that's been tailored for the phase and frequency response of an acoustic guitar. Full, clear tone with a great balance from low to high strings is effortlessly produced by the ACS, yet it retains a brilliant top end favored in acoustic guitar tone. As shown below, the frequency response of the ACS has a smooth slope as opposed to the unwanted "signature-peak" of standard sound hole pickups. Your guitar will maintain its natural sound.

SPECIFICATIONS:

Logo Color:	Silver
Resonant Frequency (Khz)	14.2
Output Noise (dBV)	-96
Output Impedance (Kohm)	2
Current @ 9V (Microamps)	220
Battery Life (Hours)	1200



EMG-ACS



Standard Sound Hole



The ACS can also be used in combination with the AS93U or AS125U pickup systems for even greater flexibility. Low impedance output gives you a host of features unavailable from any other sound hole pickup. Recording direct to tape is a true pleasure. The result is not only great tone in the studio, but live performances are a joy because of the great tone and ample output before feedback.

Adjustable pole pieces allow for easy string balance no matter what type of strings you use. The ACS Pickup has an on-board fingertip volume control for easy level adjustment. A single piece mounting bracket and the EMG Quik-Connector allow effortless installation and removal.



Travis Meeks



Pat Kirtley



Richard Leo Johnson

E M G - U l t r a J a k TM

The EMG-Ultrajak is the ultimate output jack for acoustic guitar. The Ultrajak uses "360 degree" spring contacts for each terminal of the jack instead of the conventional "single-point" contact. The springs surround each terminal of the plug for a more sure electrical contact.

The Ultrajak features stereo output and a separate battery switch contact. So, you can have Stereo output (tip and ring) and switch a battery on and off (to ground) all from one jack! The UltraJak is included with all EMG Acoustic Products as standard equipment, so expansion to stereo is available anytime. The Ultrajak mounts from the outside using an allen wrench so you don't need access it through the sound hole. The EMG-Ultrajak received the "Players' Choice" award from Acoustic Guitar Magazine in 1998.



Received the "Player's Choice" Award

UltrajakTM is a registered trademark of EMG, Inc., awarded patent # 5,809,136

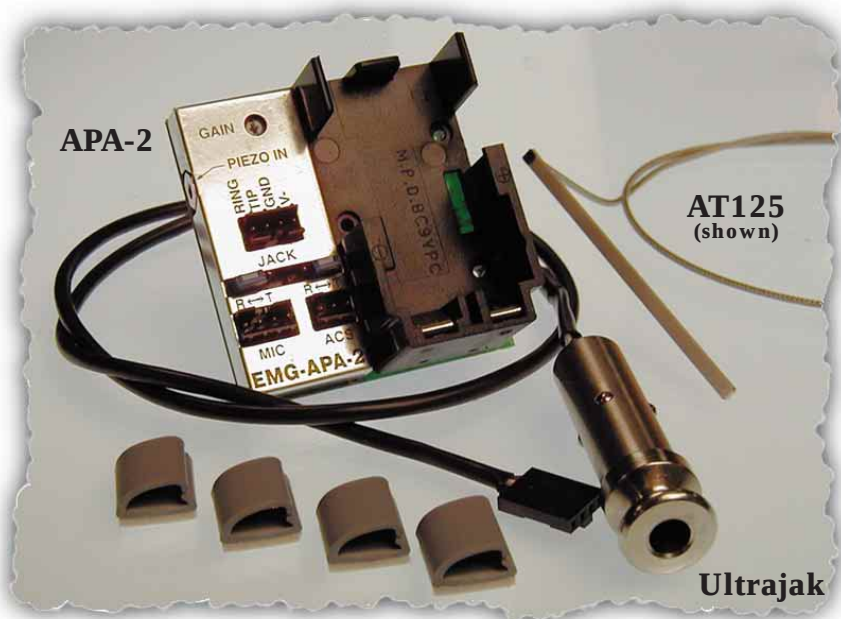
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EMG Product Catalog v1.0

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A S 9 3 U / A S 1 2 5 U



The **EMG-AS93U** and **EMG-AS125U** are the most natural sounding saddle transducer systems in the world. EMG was the first to produce a piezo film pickup and has received two patents for our designs. The EMG-AS93U and AS125U are complete systems that include a saddle pickup, APA-2 preamp, and the EMG Ultrajak.

Pickup included: AT93 or AT125

EMG pickup uses piezo film in a layered format (Bimorph) that has many advantages over other film designs as well as piezo crystals. The layering allows a lower output impedance as well as double the output of other designs. Unlike the crystals, the film has no resonance in the audible region so it doesn't have that annoying harshness inherent in the crystal pickups. Secondly, because the film runs the length of the pickup, any number of strings or string spacing can be used. Before purchasing you should measure the width of the saddle of your guitar to be sure you get the right pickup.

The AS93U System is for 3/32 inch saddle width.
The AS125U System is for 1/8 inch saddle width.
Also available is the AS93U-L System for instruments with a split saddle.

SPECIFICATIONS:

Pickup:	AS125U AS93U
Preamp Gain	Up to 20dB
Maximum Supply Voltage	27v
Output Noise (dBV)	-95
Output Impedance (Kohm)	2
Current @ 9V (Microamps)	170
Battery Life (Hours)	2900



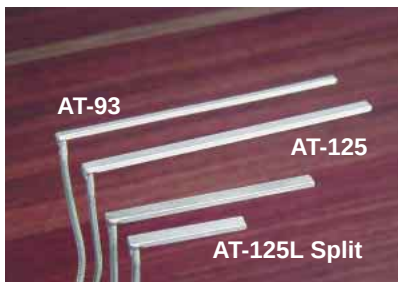
Preamp included: EMG-APA-2

Included with each system is our EMG-APA-2 preamp. This is a miniature preamp/battery holder unit that is easily mounted to the neck block using a 3M dual-lok fastener. It incorporates a FET input for low noise and a very high input impedance (20 megohms) so you can finally get every ounce of tone your guitar is capable of producing. The low output impedance (2k ohms) allows you to plug into a guitar amp, mixing board, even directly into a tape/digital recorder with the same fabulous results. The most amazing aspect of this technology is that the pickup is virtually invisible. The natural tone of the guitar is amplified without added overtones or coloration. What you play is what you hear: highs with a natural brilliance and a low end that's full and rich. The total result is a pickup system for acoustic guitar that sounds as alive through a combo amp or mixing board as it does acoustically.

A T 9 3 / A T 1 2 5

The EMG-AT93U and EMG-AT125U are the same natural sounding saddle pickup featured in the AS93U and AS125U Systems. Available in two widths, 3/32 and 1/8 inch, each patented EMG pickup uses piezo film layered in a bimorph design. This design has many advantages over the old design using piezo crystals. Unlike the crystals, the film has no resonance in the audible region so it does not have that annoying harshness inherent in the crystal pickups. Secondly, because the film runs the length of the pickup, the number of strings and string spacing becomes a non-factor. Each AT93U and AT125U include the EMG UltraJak.

There are a couple of reasons you would want to purchase a pickup separately. Firstly, if you're using an external preamp system that allows you to plug the pickup in directly without the on-board APA-2 preamp. Secondly, if you just want a pickup you can use for practicing at home and don't require great sound, just some output. The output impedance of the AT93 and AT125 pickups is about 3.0 MegOhm so in order to get full bandwidth frequency response you need a preamplifier with an input impedance of at least 10 MegOhms.

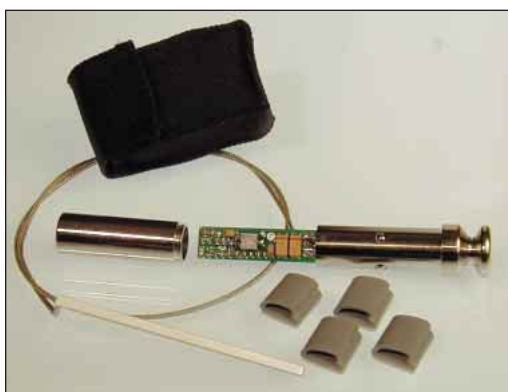
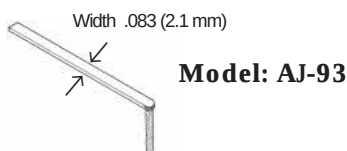
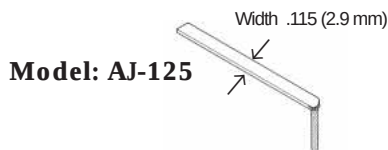


E M G - A m p J a k



The EMG AmpJak is a stand alone pickup/preamp system. There are two AmpJak models, AJ93 and AJ125 that include either the AT93 or AT125 Pickup along with a custom preamp that's mounted directly to EMG's own UltraJak. The AmpJak systems are mono (single channel) and are not intended to be mixed with the EMG-ACS or other EMG Acoustic Products. The Ultrajak is the simplest of all endpin jacks to install, just a turn of an internal screw and it's mounted.

The AmpJak features a specially designed preamp that has a low-frequency rolloff at 18dB per octave to remove the "boom" from your acoustic guitar.



In addition, a subtle low mid-range contour enhances the overall tone. The result is great acoustic tone, that's natural and open. A trimpot is located on the board to let you adjust the output. A unique canvas battery bag holds the battery and conveniently fastens anywhere inside the instrument. Instructions and diagrams are included for easy installation, although we recommend installation by a skilled repairman. The AmpJak is installed as standard equipment in many of the Tacoma Guitars including the Papoose and Chief Models.





The AEQ-3 is an on board equalization system for acoustic guitars. You will not find another EQ unit on the market in this price range with this much flexibility, let alone the quality name of EMG to go along with it.

The AEQ-3 is easily mounted on the top shoulder of your guitar. It is made up of two concentric potentiometers, bass and treble eq's on one, volume control and mid-range on the other. A key feature on the AEQ-3 is a high frequency dip switch that allows you to custom tailor the high frequency response to the natural tone of your guitar.

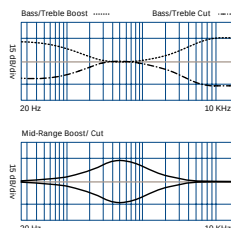
This is definitely not your ordinary equalizer, with each band featuring a two pole constant 'Q' section, the circuit is amazingly quiet. Each band has up to 12db of cut and boost, so you'll be able to dial in the tone you've been searching for.

If you want to outfit your instrument with a complete EMG Pickup and AEQ, Models ASQ-3-93U and ASQ-3-125U include the AT93 and AT125 under the saddle piezo film pickup.



SPECIFICATIONS:

Output Noise (dBV)	-95
Output Impedance (Kohm)	2
Current @ 9V (Milliamps)	1.2
Battery Life (Hours)	200
Max Supply Voltage	27
Low Equalization: (db)	±12
Mid Equalization: (db)	±12
High Equalization: (db)	±12

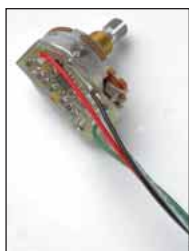




EMG GUITAR ACCESSORIES

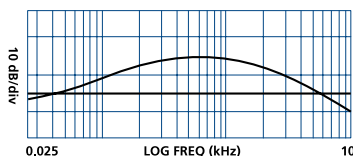
As the finishing touch to our line of pickups we offer a complete range of add-on electronic accessories. These accessories let you dial in your own custom sound.

EMG - S P C



The SPC or "Strat Presence Control" is often called the fat control. The original intent of the SPC was to turn the tone of a single-coil pickup into a dual-coil. This is accomplished by boosting the gain in a broad mid-band fashion and reducing the highs. The result is a fatter, louder tone from any single coil pickup,

but you can also use it on a humbucking to give you a high output, really fat tone that's great for slide guitar. The SPC is featured on the DG20.

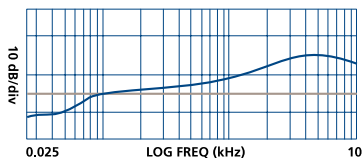


SPECIFICATIONS:

EMG-SPC	
Output Noise (dBV)	-117
Output Impedance (Kohm)	2
Current @ 9V (Microamps)	270
Battery Life (Hours)	925

EMG - R P C

EMG-RPC Resonant Peak Control The EMG-RPC is a variable active control that boosts the high frequency response up to 6 dB at 4000 Hz, while simultaneously reducing low frequency response. Its potentiometer controlled circuitry allows you to sweep from natural sound to accentuated highs typical of single-coil pickups. Like the EMG-SPC, it can be wired to one pickup or at the output of the guitar.

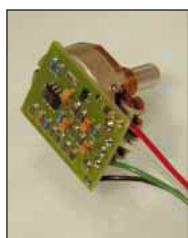


SPECIFICATIONS:

EMG-RPC	
Output Noise (dBV)	-118
Output Impedance (Kohm)	2
Current @ 9V (Microamps)	270
Battery Life (Hours)	925

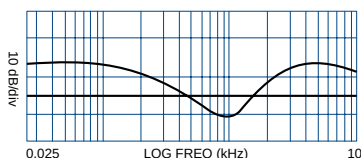


E M G - E X G



The EXG Expander is the circuit that does it all. It's featured on the DG-20 Pro Series System along with the SPC. For flexibility in tone at your fingertips there is no better choice.

The frequency response of the EXG is similar to normal guitar amp equalization. The lows and highs are boosted while the midrange is dipped out. The EXG is great for creating a fuller tone that doesn't get muddy, while keeping it clean and clear, letting your guitar stand out in the mix.

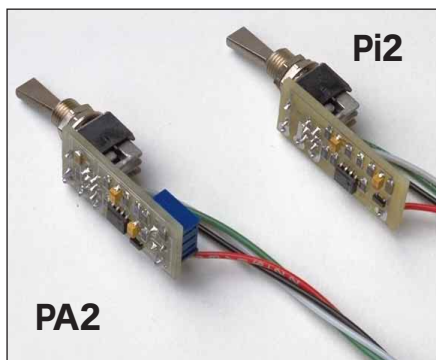


SPECIFICATIONS:

EMG-EXG	
Output Noise (dBV)	-117
Output Impedance (Kohm)	2
Current @ 9V (Microamps)	410
Battery Life (Hours)	600

E M G - P A 2

The PA2 is a straight booster preamplifier mounted on a mini-toggle switch. Perfect if you want to just plain overdrive the input of your amp for distortion. It has a trim pot so you can preset the amount of boost up to an additional 20 dB. The PA2 will also work with passive pickups.



E M G - P i 2

The EMG-Pi2 is an active phase reversal circuit mounted on a mini-toggle switch, and is used in guitars with two or more EMG Pickups. Wired in series with one of the pickups, The Pi2 produces true "out of phase" sound by reversing the phase of the pickup. The active method of phase reversing is superior because it maintains the quietness of an EMG equipped instrument. It requires the same amount of space as a conventional phase switch, and only four solder connections are necessary. Along with the Pi2, mounting hardware and complete instructions are included to make installation easy.

SPECIFICATIONS:

	EMG-PA2	EMG-Pi2
Gain (dB)	up to 20dB	3dB
Output Noise (dBV)	-85	-89
Output Impedance (Kohm)	2	2
Current @ 9V (Microamps)	175	175
Battery Life (Hours)	1425	1425

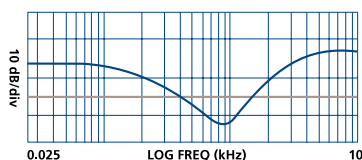




B A S S G U I T A R A C C E S S O R I E S

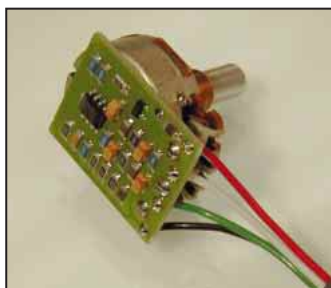
E M G - E X B

The EMG-EXB is an unconventional equalization control for bass that increases the low and high frequency regions while reducing the mid-range simultaneously to provide the gain and punch that bass players want. Slap players will especially appreciate its superior clarity and percussive quality. Similar in design and construction to the EMG-EXG, this unit is compact and will fit into most EMG equipped instrument control compartments without any modification. Instruction and wiring diagrams are included for easy installation.



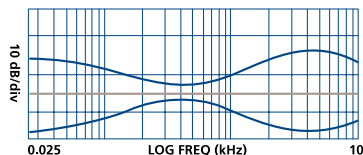
SPECIFICATIONS:

EMG-EXB	
Output Noise (dBV)	-112
Output Impedance (Kohm)	2
Current @ 9V (Microamps)	410
Battery Life (Hours)	600



E M G - B T S e r i e s

The BTC Controls and Systems are the most widely used bass EQ Systems in the world. All the controls and systems have the same great features. Approximately 12db of cut and boost are available for bass and treble. All controls are center detented to assure quick return to normal tone settings. A dual-dip switch is mounted to the PC Board that lets you program the high end frequency response four different ways so you can choose the sound that's right for you. These systems use the latest in surface mount technology, are extremely quiet, and require very little current from a 9 Volt battery. All systems come complete with instructions and diagrams for a simple installation.



SPECIFICATIONS:

EMG-BT	
Output Noise (dBV)	-118
Output Impedance (Kohm)	2
Current @ 9V (Microamps)	410
Battery Life (Hours)	600



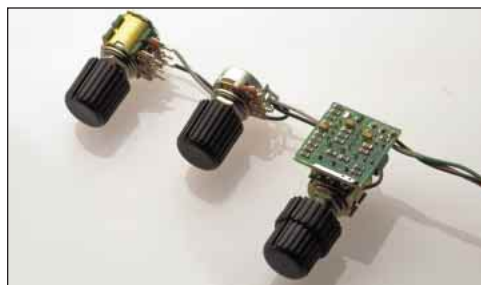
E M G - B T S S Y S T E M

For EMG pickups only, This system features a pre-wired balance control (blend) and master volume with the bass and treble on separate pots.



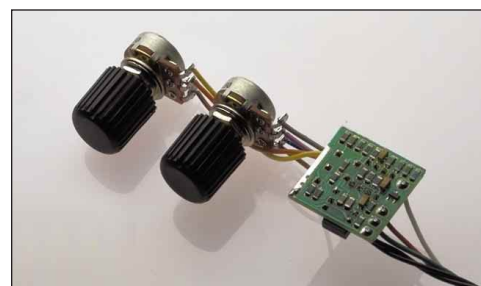
E M G - B T C S Y S T E M

For EMG pickups only. This system features a pre-wired balance control (blend) and master volume with the bass and treble on a concentric pot.



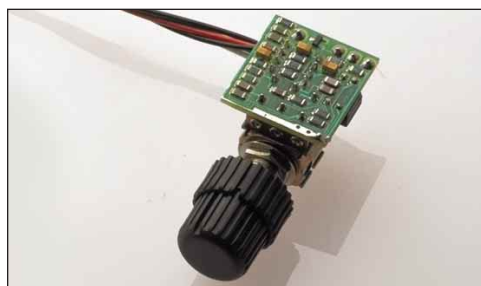
E M G - B T S C O N T R O L

The BTS Control is essentially the same as the BTC Control but instead of a concentric pot, the controls are separate. The BTS Control will also work with EMG's or passive pickups. Both pots are center detented, and 4 knobs are included.



E M G - B T C C O N T R O L

The BTC Control features a bass and treble equalizer on a concentric (stacked) pot. It takes up very little space and will work with any pickup, EMG or passive. It comes complete with knobs (including 2 extra volume knobs).

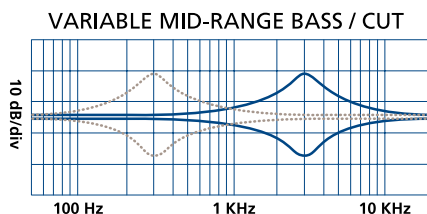




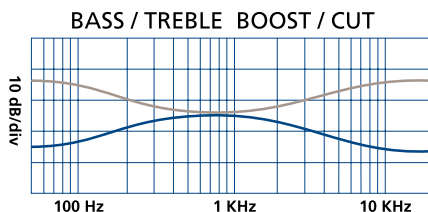
BASS GUITAR ACCESSORIES

ACTIVE ELECTRONICS FOR BASS

Our BQ systems bring the studio to your bass. We're using dual-pole constant-Q filter sections for tighter bandwidth control and extremely low noise. The best feature of the new BQ Systems is a concentric Midrange control with adjustable frequency range from 300 to 3kHz and up to 12 dB boost or cut. Now you can custom tailor the sound of your bass at the frequency you choose. It's like having a recording studio EQ in your bass.



The Treble and Bass controls are custom designed and sloped exclusively for bass. We've even included a "high end dip switch" on the circuit board for presetting the high frequency EQ point for your individual instrument.



All the BQ Systems are available in five different formats so you can match your existing control set up on your bass and install a system without modification. Or, if you're starting from the ground up you can get a BQ system complete with master volume and balance controls.

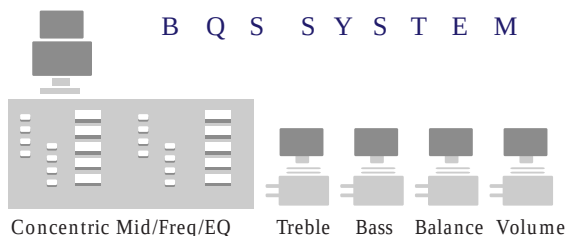
SPECIFICATIONS:

Typical Specifications	BQ System
Output Noise (dBV)	-96
Output Impedance (Ohms)	200
Current @ 9v (Milliamps)	1.5
Battery Life (Hours)	170
Low Equalization (db)	±10
High Equalization (db)	±12
Mid Equalization (db)	±12
Max Supply Voltage (DC Volts)	27

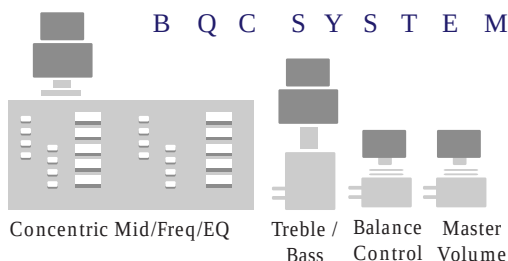


E M G - B Q S e r i e s

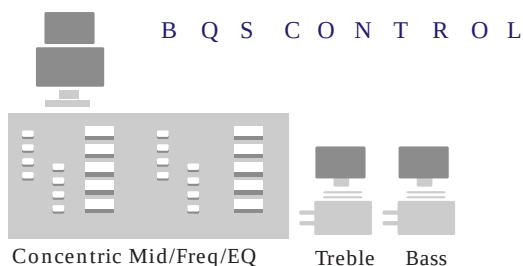
For EMG pickups only. This system features a pre-wired balance control (blend) and master volume with separate bass and treble pots along with the concentric mid-control (stacked). All the EQ controls and balance control feature center detents.



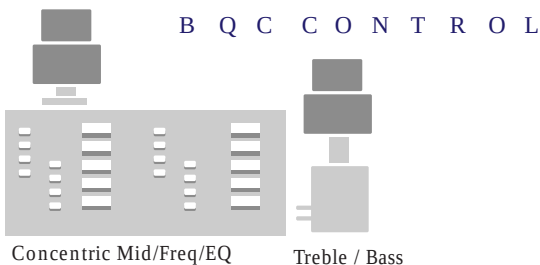
For EMG pickups only. This system features a pre-wired balance control (blend) and master volume with both the bass and treble on a concentric pot as well as the mid-control. All the EQ controls and balance control feature center detents.



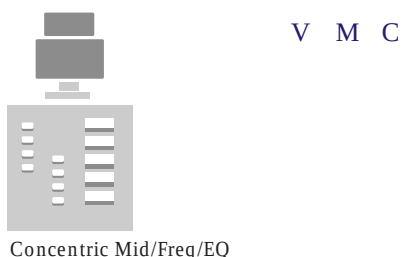
The BQS Control is essentially the same as the BQC Control but the bass and treble controls are separate. The mid-control is concentric (stacked). The BQS Control will also work with EMG's or passive pickups. The pots are center detented, and 2 extra volume knobs are included.



The BQC Control features a bass and treble equalizer on a concentric (stacked) pot along with the concentric (stacked) mid-control. It takes up very little space and will work with any pickup, EMG or passive. It comes complete with knobs including 2 extra volume knobs.



The VMC (Variable-Mid-Control) is perfect for dialing in just the tone you want. Using the cut to reduce the mids gives you that classic full bottom end with a snappy high end. By boosting the mids you can get a fat boomy low end



ELECTRIC • ACOUSTIC • BASS

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Just for You



EMG T-Shirt

The EMG T-Shirt is available only in black and is a true rock and roll T. So far it has won two design awards and it's worn by ordinary folks and famous rock stars alike.

Medium	\$10.50
Large	\$10.50
X-Large	\$10.50
XX-Large	\$14.00



EMG Polo

The EMG Polo features the **EMG Man** and "**Get Active**" embroidered on the front left side. Both the EMG T and EMG Polo are 50/50 cotton/poly and available in: Medium, Large, XL, and XXL.

Medium	\$28.00
Large	\$28.00
X-Large	\$28.00
XX-Large	\$32.00

EMG Baseball Cap

The EMG Baseball Cap features an embroidered EMG Man on the front and our familiar "**Get Active**" Logo on the back. The top is Beige and the Brim is Black. One size fits all.

One Size	\$14.00
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EMG Pin

The EMG Pin features our original color logo enameled onto a gold base. One inch tall.

One Size	\$5.00
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EMG Wiring Book 6TH EDITION

The EMG Wiring book is a necessity for any repairman or guitar tinkerer around. It includes every diagram from the EMG Installation sheets that come with each model. If you can't figure out how to wire any instrument from the EMG Wiring Book, you might want to call one of the EMG experienced technicians.

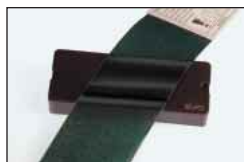
\$5.00



EMG Picks

EMG Picks are available in thin, medium, and heavy. Picks are black and gold stamped with "EMG Pickups".

\$2.50 / Dozen



EMG Magnetic Viewing Paper

EMG's exclusive Magnetic Viewing Paper reveals the placement of the internal magnetic field. Black shows the field and white shows where the magnetic fields meet or where there is no magnetism.

\$5.00



EMG Web Site

Check out our web site for updated information about EMG products, Artist CDs, posters, and more "**Just For You**" items.

<http://www.emginc.com>

EMG Inc. P.O. Box 4394
Santa Rosa, CA 95402

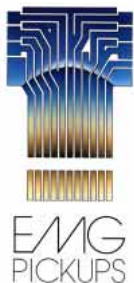
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EMG Product Catalog v1.0

EMGOnline is at <http://www.emginc.com>

The EMG Custom Shop



Ever since the beginning, EMG has been a custom shop. The only problem was that demand for pickups meant building a factory rather than custom pickups, so it became difficult to satisfy each and every customer who called for something special. For years we've had an ongoing development of new product. Now that we have a twenty year inventory of knowledge and materials we started the EMG Custom Shop. Custom Shop Pickups also include models that we have discontinued over the years. All inquiries for custom shop pickups should be directed to the factory in Santa Rosa.

EXAMPLE MODELS ARE:

EMG-58

One of EMG's original humbucking designs that was abandoned because it was too noisy. The 58 has a bit of hum to it, but has a classic tone that is fat and round. Perfect as a rhythm and blues pickup, the 58 has loads of output, similar to a P-90, only not muddy.

EMG-707

The EMG-707 is a seven string pickup for guitar. The pickup is housed in our 35 Extended bass housing, so it's not a direct replacement for a humbucking pickup. The 707 is a dual coil pickup with Alnico Poles similar to the 85, with the same amount of output.

EMG-HB

Originally known as the EMG-SS, the EMG-HB was developed for Steinberger Sound. It is a P-Style Pickup in a guitar humbucking housing. It has exactly the same features and specifications as the current EMG-P. It is recommended for bass guitars with a string width of less than 2 inches. The HB has been replaced with the 35 Extended Series Bass Pickups as a production equivalent.

EMG-J-set 3.0

The J 3.0 is a Jazz Bass Set with extended Magnets for non standard (wide) string widths that might show up on a 4 string, but also on 5 string basses.

EMG-MJ set

The MJ Set is for the Fender Mexican Jazz Bass*. Fender decided to use two of the same pickup sizes, rather than the short/long used on the standard Jazz Bass. The MJ is the same as our EMG-J Set but both pickups are the same dimensions.

EMG-40JV5

This pickup is EMG's 5 string version of our JV Pickup. The 40JV5 is packaged in the EMG Extended Series 40 Housing.

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Every attempt was made to contact each photographer who's work is contained in this catalog.

If you find that your work appears, but is not credited, be sure to contact us.

A much deserved THANK YOU to all the wonderful people over the years who have contributed to EMG. And to all EMG users throughout the world. Not only have you done yourself a favor, you've done one for us too. Thanks.

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