

SPECIFICATIONS

SP™ 218BX



Enclosure materials & finish:

Hardwood panel coated with Peavey's heavy-duty HammerHead™ finish.

Dimensions (H x W x D):

Width: 21.04" / 535 mm

Depth: 30.28" / 769 mm

Height: 49.31" / 1252 mm

Net Weight:

147 lbs. (66.7 kg)

Features

This loudspeaker system delivers high output, low distortion bass from two 18" Pro Rider woofers mounted in a vented enclosure. This unit is designed for portability. The enclosure is constructed of a hardwood panel coated with Peavey's heavy-duty HammerHead™ UV stabilized polyurea finish for increased durability and ruggedness. A full-length, wrap-around perforated steel grille protects the front of the enclosure. Casters are mounted to assist in portability. A pole mount is also included for support of a high-pass enclosure.

Frequency response, 1 meter on-axis, swept-sine in anechoic environment:
51 Hz to 300 Hz (± 3 dB)

Usable low frequency limit (-10 dB point):
40 Hz

Power handling:
1,200 watts continuous
2,400 watts program
4,800 watts peak

Sound pressure level, 1 watt, 1 meter in anechoic environment:
99.0 dB SPL
(2.00 V parallel input)

Maximum sound pressure level (1 meter):
130 dB SPL continuous
136 dB SPL peak

Radiation angle measured at -6 dB point of polar response:
Essentially omnidirectional

Transducer complement:
2 x 18" woofer, vented
Pro Rider® 1808-8 ALCP

Box tuning frequency:
36 Hz

Minimum recommended active crossover frequency and slope for bi-amping:
90 Hz at 18 dB/octave
High pass filter 35 to 40 Hz at 12 to 24 dB/octave is recommended

Impedance (Z):
Parallel input:
nominal 4.0 Ω
minimum: 3.3 Ω

Dual-woofer input:
nominal 2 x 8.0 Ω
minimum: 2 x 6.6 Ω

Input connections:
One four-pin twist lock connector
One four-pin Neutrik Speakon switching jack
Two 1/4" jacks



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Description

The SP 218BX is a subwoofer designed to enhance the low-end of the SP Series or other full-range speaker systems. Other uses include bass guitar, keyboard and drum monitoring.

The enclosure is constructed of a hardwood panel coated with Peavey's heavy-duty HammerHead™ UV stabilized polyurea finish for increased durability and ruggedness.

A powder-coated, perforated steel grille covers the front of the enclosure. Recessed steel handles on either side provide portability. A pole guide for support of a pole-mounted, high-pass enclosure is provided on one side of the SP 218BX. Rubber feet are provided on the opposite side for horizontal use. Rubber feet and corner casters on the bottom and a corner handle on top make moving the enclosure an easy, one-person operation.

Inputs are at the rear of the enclosure and consist of two 1/4" jacks, one four-pin twist lock connector and one Neutrik Speakon switching jack. The enclosure input is configurable, with the default being 4 ohms with both drivers in parallel when using the parallel inputs. A dual-woofer 2 x 8 ohm configuration is available through the switching Neutrik jack, which disconnects the 4 ohm inputs and provides separate inputs to the woofers when used. This ingenious input design provides maximum flexibility for single- or dual-amplifier operation, without having to manually rewire the enclosure.

This low frequency enclosure is comprised of two 18" Pro Rider® subwoofer drivers in a vented alignment. The Pro Rider driver delivers superior performance due to its advanced cooling system, large 4" voice coil with edge-wound aluminum wire and Kevlar® composite cone. This design provides strong bass extension and high power handling to complement a full-range sound system.

As the SP 218BX does not include a passive subwoofer crossover, input should be electronically filtered for subwoofer applications. In addition, for high power operation, a high-pass filter set at 35 to 40 Hz and 12 to 24 dB Butterworth should be used to improve performance and reliability.

Frequency response

This measurement is useful in determining how accurately a given unit reproduces an input signal. The frequency response of the SP 218BX is measured at a distance of 1 meter using a 1 watt (into the nominal impedance) swept-sine input signal in an anechoic environment. As shown in figure 1, the SP 218BX produces a smooth frequency response from 51 Hz to 300 Hz.

Power handling

There are many different approaches to power handling ratings. Peavey rates this loudspeaker system's power handling using a modified form of the AES Standard 2-1984. Using 40 Hz to 400 Hz pink noise with peaks of four times the RMS level, this strenuous test signal assures the user that every portion of this system can withstand today's high technology music. This rating is contingent upon having a minimum of 3 dB available amplifier headroom.

Harmonic distortion

Second and third harmonic distortions vs. frequency are plotted in figures 3 and 4 for two power levels, ten percent (10%) of rated input power and either one percent (1%) of rated input power or 1 Watt, whichever is greater. Distortion is read from the graph as the difference between the fundamental signal (frequency response) and the desired harmonic. For example, a distortion curve that is down 40 dB from the fundamental is equivalent to 1% distortion.

Architectural & engineering specifications

The loudspeaker system shall have an operating bandwidth of 51 Hz to 300 Hz. The nominal output level shall be 99 dB when measured at a distance of one meter with an input of one watt. The nominal impedance shall be 4.0 ohms or 2 x 8 ohms, depending on configuration.

The maximum continuous power handling shall be 1,200 watts, maximum program power of 2,400 watts, a peak power input of at least 4,800 watts and a minimum amplifier headroom of 3 dB. The outside dimensions shall be 49.21 inches high by 21.04 inches wide by 30.28 inches deep. The weight shall be 147 lbs. The loudspeaker system shall be a Peavey model SP 218BX.

3 + 2 Year Limited Warranty

NOTE: For details, refer to the warranty statement. Copies of this statement may be obtained by contacting Peavey Electronics Corporation, P.O. Box 2898, Meridian, Mississippi 39301-2898.

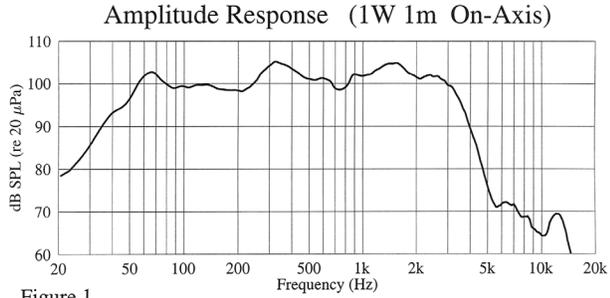


Figure 1

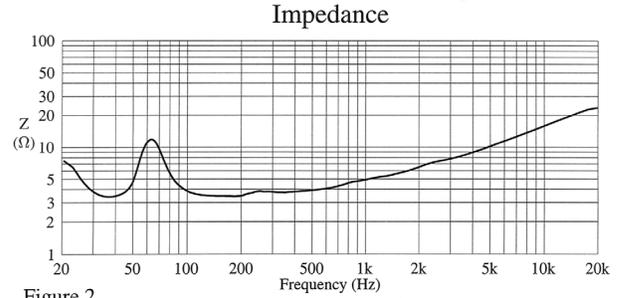


Figure 2

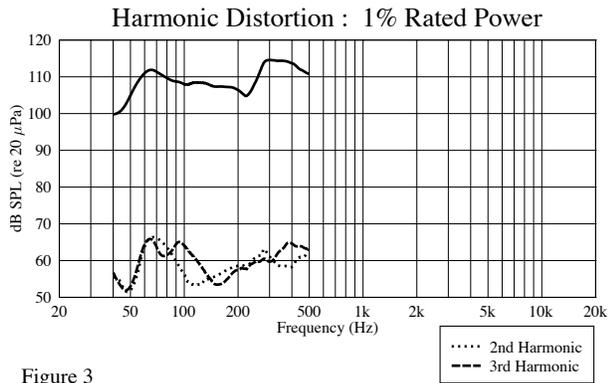


Figure 3

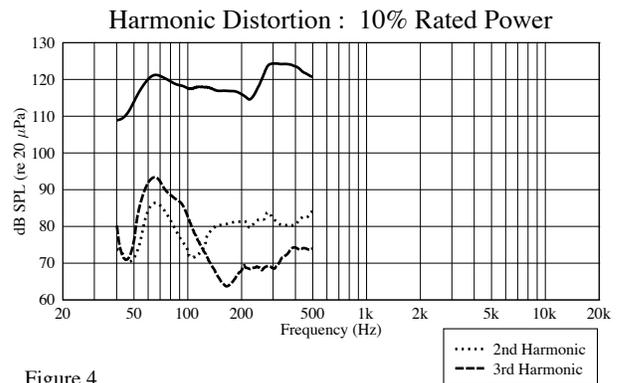


Figure 4

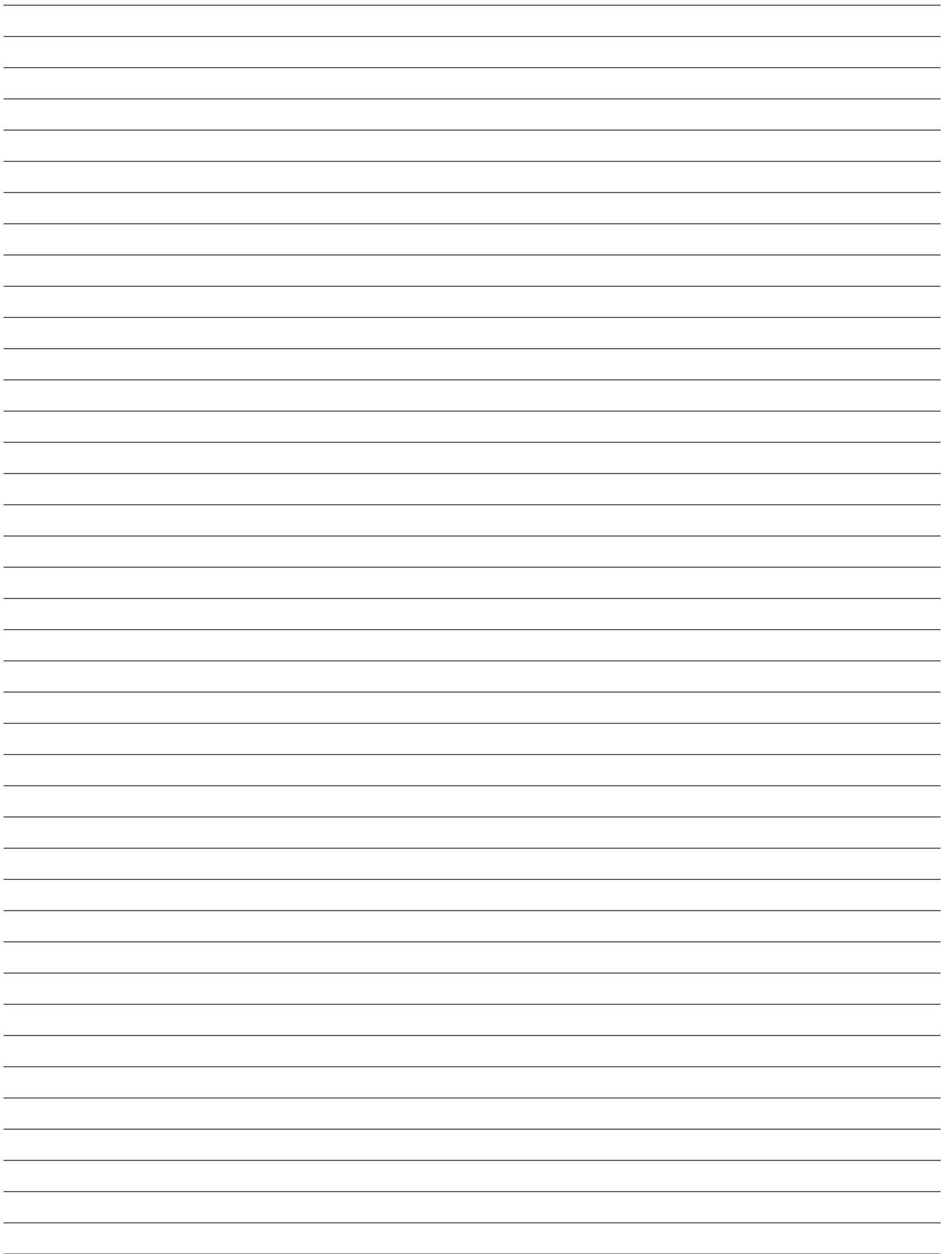
SP 218BX Input Plate



Features and specifications are subject to change without notice.

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PEAVEY ELECTRONICS CORPORATION LIMITED WARRANTY

Effective Date: 11/01/2011

What This Warranty Covers

Your Peavey Warranty covers defects in material and workmanship in Peavey products purchased and serviced in the U.S.A. and Canada.

What This Warranty Does Not Cover

The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Peavey; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized Peavey Dealer.

Who This Warranty Protects

This Warranty protects only the original purchaser of the product.

How Long This Warranty Lasts

The Warranty begins on the date of purchase by the original retail purchaser. The duration of the Warranty is as follows:

Product Category	Duration
Guitars/Basses, Amplifiers, Preamplifiers, Mixers, Electronic Crossovers and Equalizers	2 years *(+ 3 years)
Drums	2 years *(+ 1 year)
Enclosures	3 years *(+ 2 years)
Digital Effect Devices and Keyboards and MIDI Controllers	1 years *(+ 1 year)
Microphones	2 years
Speaker Components (incl. Speakers, Baskets, Drivers, Diaphragm Replacement Kits and Passive Crossovers)	1 year
Tubes and Meters	90 Days
Cables	Limited Lifetime
AmpKit Link, Xport, Rockmaster Series, Strum'n Fun, RetroFire, GT & BT Series Amps	1 year
Marvel Jr. Guitar	90 Days

[Denotes additional Warranty period applicable if optional Warranty Registration Card is completed and returned to Peavey by original retail purchaser within 90 days of purchase.]*

What Peavey Will Do

We will repair or replace (at Peavey's discretion) products covered by Warranty at no charge for labor or materials. If the product or component must be shipped to Peavey for Warranty service, the consumer must pay initial shipping charges. If the repairs are covered by Warranty, Peavey will pay the return shipping charges.

How To Get Warranty Service

(1) Take the defective item and your sales receipt or other proof of date of purchase to your Authorized Peavey Dealer or Authorized Peavey Service Center.

OR

(2) Ship the defective item, prepaid, to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301. Include a detailed description of the problem, together with a copy of your sales receipt or other proof of date of purchase as evidence of Warranty coverage. Also provide a complete return address.

Limitation of Implied Warranties

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

Some states do not allow limitations on how long an implied Warranty lasts, so the above limitation may not apply to you.

Exclusions of Damages

PEAVEY'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT PEAVEY'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. PEAVEY SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If you have any questions about this Warranty or services received or if you need assistance in locating an Authorized Service Center, please contact the Peavey International Service Center at (601) 483-5365.

Features and specifications are subject to change without notice.



Logo referenced in Directive 2002/96/EC Annex IV (OJ(L)37/38, 13.02.03 and defined in EN 50419: 2005)
The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005

Optional Product Extended Warranty Registration

Give us some information and put your extended warranty into effect!

Please take a few minutes to fill out this information/survey sheet to help us get to know and serve you better.
To save time, submit your warranty registration online at www.peavey.com/support/warrantyregistration

1.

First Name _____ Initial _____ Last Name _____

Street Address _____

City _____ State/Province _____ Postal Code _____

() _____
Telephone Number _____ E-mail Address _____

() _____
Fax Number _____ Date of birth _____

Gender M F

2.

Model _____ Serial # _____

Date of Purchase _____ Price Paid _____

3.

Name of store where purchased _____

City _____ State _____

4. Top two (2) reasons why you purchased from this store/dealer:

- | | |
|---|--|
| <input type="checkbox"/> Availability of product | <input type="checkbox"/> Past favorable experience |
| <input type="checkbox"/> Friend/Relative's recommendation | <input type="checkbox"/> Best price |
| <input type="checkbox"/> Store credit card | <input type="checkbox"/> Advertised special |
| <input type="checkbox"/> Knowledgeable staff | <input type="checkbox"/> Convenient location |
| <input type="checkbox"/> Availability of lessons | <input type="checkbox"/> Received as a gift |
| <input type="checkbox"/> Technical instruction | <input type="checkbox"/> Other _____ |

5. Where do you most often shop for music and sound products?

- | | |
|---|---|
| <input type="checkbox"/> Independent retailer | <input type="checkbox"/> Newspaper ads |
| <input type="checkbox"/> Mass market retailer | <input type="checkbox"/> Internet/Web sites |
| <input type="checkbox"/> Mail order magazines | <input type="checkbox"/> Other _____ |

6. What two (2) factors most influenced your purchase of this product?

- | | |
|--|---|
| <input type="checkbox"/> Peavey brand name | <input type="checkbox"/> Product appearance |
| <input type="checkbox"/> Craftsmanship | <input type="checkbox"/> Durability |
| <input type="checkbox"/> Features for price | <input type="checkbox"/> Prior experience with Peavey |
| <input type="checkbox"/> Bundled accessories | <input type="checkbox"/> Packaging |
| <input type="checkbox"/> Sound quality | <input type="checkbox"/> Other _____ |

7. How did you learn about this Peavey product? (select best answer)

- | | |
|---|---|
| <input type="checkbox"/> Magazine review | <input type="checkbox"/> Teacher's recommendation |
| <input type="checkbox"/> Newspaper review | <input type="checkbox"/> Catalog or flyer |
| <input type="checkbox"/> Radio advertisement | <input type="checkbox"/> Saw in store |
| <input type="checkbox"/> Advertised special | <input type="checkbox"/> Use by professional |
| <input type="checkbox"/> Friend/Relative's recommendation | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Salesperson's recommendation | |

8. Which other brands/models did you consider?

9. How would you describe your level of musicianship/technical expertise?

- Beginner - Never played or taken less than one (1) year of lessons
 Intermediate - One (1) to five (5) years of lessons or playing
 Advanced - More than five (5) years of lessons or playing; play professionally

10. Education: (select best answer)

- High school
 Some college
 Completed college
 Graduate school

11. Which best describe your family income? (select best answer)

- | | |
|--|--|
| <input type="checkbox"/> Under \$15,000 | <input type="checkbox"/> \$75,000 - \$99,999 |
| <input type="checkbox"/> \$15,000 - \$24,999 | <input type="checkbox"/> \$100,000 - \$149,999 |
| <input type="checkbox"/> \$25,000 - \$34,999 | <input type="checkbox"/> Over - \$150,000 |
| <input type="checkbox"/> \$35,000 - \$49,999 | |
| <input type="checkbox"/> \$50,000 - \$74,999 | |

12. Which of the following is your primary source of information on musical products: (select best answer)

- | | |
|-------------------------------------|---|
| <input type="checkbox"/> Television | <input type="checkbox"/> Mail order catalogs |
| <input type="checkbox"/> Radio | <input type="checkbox"/> Direct mail |
| <input type="checkbox"/> Internet | <input type="checkbox"/> Literature from manufacturer |
| <input type="checkbox"/> Newspaper | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Magazines | |

13. What is your main motivation for buying new equipment?

- | | |
|--|--|
| <input type="checkbox"/> Replacing old product | <input type="checkbox"/> Impulse |
| <input type="checkbox"/> Want new and leading edge equipment | <input type="checkbox"/> Need for improved performance |
| <input type="checkbox"/> Fulfill a specific need | <input type="checkbox"/> New technology |
| <input type="checkbox"/> Supplement existing products | <input type="checkbox"/> Availability of product |
| <input type="checkbox"/> Value | <input type="checkbox"/> Other _____ |

14. Please list your three most frequently visited Web sites.

1. http:// _____
 2. http:// _____
 3. http:// _____

15. In your opinion, what could Peavey do to improve its products and/or service? Please use the space below to tell us your answer.



FROM:

Peavey Electronics Corporation
Attn: Warranty Department
P.O. Box 5108
Meridian, Ms 39302-5108



Place
Postage
Here

