

# ***Ampeg***<sup>®</sup>

## **BA-108, BA-110, BA-112, BA-115, and BA-210 Bass Guitar Combo Amplifiers**



**Owner's Manual**



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**What's in the Box**

BA-108, BA-110, BA-112, BA-115, or BA-210 Amplifier, Power Cable, Quick Start Guide.

**Introduction**

Completely redesigned, the Ampeg BA Series combo amplifiers feature legacy Ampeg preamp and tone stack circuits with a wide range of classic Ampeg tones. The modern, flexible designs include a true 60° sound reinforcement monitor angle that directs sound right to your ears, adding clarity and definition in any situation.

Additionally, performance-driven features, like integrated DIs and effects loops, are perfect for serious gigging and rehearsal. Portable by design and built for gigging, a protective all-steel amp chassis, durable double-thick Tolex, and metal corners deliver the durability you need during transport.

Like all Ampeg products, your BA Series combo is designed by musicians and built using only the best of components. Each combo is tested to confirm that it meets our specifications, and we believe that each amp is the absolute best that it can be.

In order to get the most out of your new combo, please fully read this *Owner's Manual*, as well as the *Important Safety Instructions* included with your BA Series amp, before you begin playing. Best of luck in all of your musical endeavors!

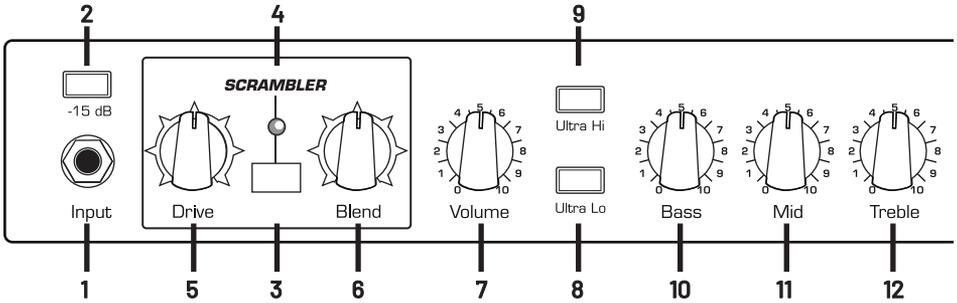
And **thank you** for choosing Ampeg.



**BA Series Features:**

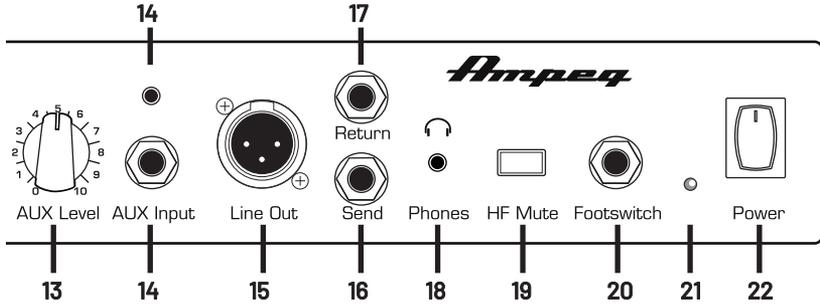
- Classic Tone
  - Legacy Ampeg preamp and tone stack circuits
  - Ampeg Ultra Hi/Lo tone shaping\*
  - Bass Scrambler overdrive for SVT® grind\*
  - Perfectly-matched Ampeg Custom speakers
  
- Modern Flexibility
  - True 60° sound reinforcement monitor angle
  - Integrated DIs, effects loops, and extension speaker outs\*
  - Aux in / headphone outs
  
- Rugged Portability
  - Protective all-steel amp chassis
  - Impact-resistant metal corners
  - Durable, double-thick Ampeg classic black Tolex
  - Rugged, braced enclosures
  
- Some features available on select models only.

## BA Series Front Panel Features



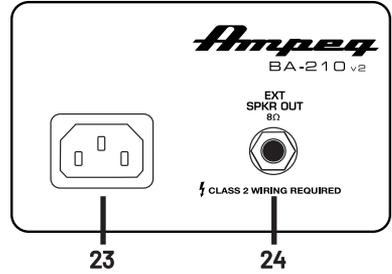
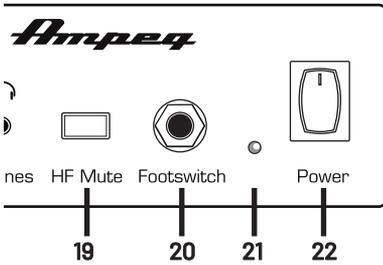
1. **INPUT:** The signal output from an instrument (active or passive) may be connected to this 1/4" Input by means of a shielded instrument cable.
2. **-15 dB PAD SWITCH:** Press this switch in to reduce the input signal by 15 dB and compensate for higher output sources. This attenuation is suited for use with basses that have active electronics or high-output pickups.
3. **SCRAMBLER:** Engage this switch to activate the Bass Scrambler overdrive circuit. This allows for varying amounts of tube-like grind and distortion.
4. **SCRAMBLER LED:** This LED illuminates green when the Bass Scrambler overdrive circuit is on.
5. **DRIVE:** Use to adjust the amount of Bass Scrambler overdrive effect. Rotate the control clockwise for a more overdriven sound, or counter-clockwise for a less overdriven sound.
6. **BLEND:** Use this to blend the Bass Scrambler signal with the clean, unaffected signal.
7. **VOLUME:** Use to control the overall output level. It affects the preamp level to Speaker and Phones outputs. Use it wisely and turn it down when making connections, putting on headphones, or when trying something new. It does not affect the signal fed to the Aux Input.
8. **ULTRA LO:** This switch, when engaged, enhances the amount of low-end output with a 1 dB boost at 40 Hz, and a 10 dB cut at 500 Hz (BA-112, BA-115, and BA-210).
9. **ULTRA HI:** This switch, when engaged, enhances the amount of high frequency output with 5 dB boost at 8 kHz (BA-112, BA-115, and BA-210).
10. **BASS:** Use to adjust the low frequency level of the amplifier. The low frequency output is flat at the center position. See the following pages for Technical Specifications.
11. **MID:** Use to adjust the midrange frequency level of the amplifier. The midrange frequency output is flat at the center position. Rotate the control counter-clockwise for a "contoured" sound, (more distant, less midrange output) or clockwise for a sound that really cuts through. See the following pages for Technical Specifications.
12. **TREBLE:** Use to adjust the high frequency level of the amplifier. The high frequency output is flat at the center position. See the following pages for Technical Specifications.

## BA Series Front Panel Features - Continued



- 13. AUX LEVEL:** Use to independently control the output level of the signal fed to the Aux Input. Use it wisely and turn it down when making connections, putting on headphones, or when trying something new.
- 14. AUX INPUT:** The audio output from a line level source, such as an MP3 or CD player, can connect to either of these inputs. The incoming audio is mixed with the preamp signals, so you can play along to a practice track as you listen with headphones.
- 15. XLR LINE OUT:** Typically, you would connect this post-EQ, balanced output to the balanced input of an external mixer or a recorder. In this way, you do not need to mic the speaker cabinet in order to add it to the main mix or to record. The level of this signal is affected by the Volume control. This output can connect to external power amplifiers or powered loudspeakers, as long as they have their own input controls to adjust the volume level (BA-115 and BA-210).
- 16. EFFECTS SEND:** Use this 1/4" TS (unbalanced) output to send a line level signal to an external effects processor, for example. The output here is affected by all controls except the Aux Level. Use the effects Return jack to feed the returned processed signals back into the power amplifier - see item 17 (BA-115, and BA-210).
- 17. EFFECTS RETURN:** Use this 1/4" TS (unbalanced) input to return the processed line level output of an external effects processor, for example. The processor could be fed by signals from the effects send - see item 16 (BA-115 and BA-210).
- 18. PHONES:** Use this 1/8" TRS stereo output to connect your headphones. The output here is a mix of the line level signals reaching the amplifier, as well as any incoming audio from the Aux Input jack.
- !** Before putting on headphones, make sure the Volume (7) and Aux Level (13) controls are turned down, and that any external audio source (if connected) has its level turned down. This will reduce the chance of hearing damage due to loud volumes.
- NOTE:** Speakers are muted when headphones are plugged in.

**BA Series Front and Rear Panel Features**



- 19. HF MUTE:** Press this switch in to mute the high-frequency output (BA-115 and BA-210).
- 20. FOOTSWITCH:** Connect a single or dual footswitch to this jack for Scrambler on/off control (BA-112, BA-115, and BA-210). **NOTE:** A footswitch may be purchased at your local Ampeg Dealer, or directly from [shop.ampeg.com](http://shop.ampeg.com). Be sure to ask for model #AFP1, #AFP2, or #AFP3.
- 21. ON LED:** This LED illuminates red when the power is on.
- 22. POWER SWITCH:** Press the top of the switch to turn on the overall system power, and press the bottom of the switch to turn it off.

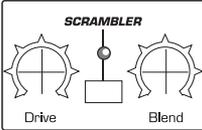
- 23. POWER CONNECTOR:** This is where you connect the supplied AC power cable.
- 24. EXT SPKR OUT:** Use this 1/4" TS Output jack to connect the amplifier to an 8 extension speaker. The internal speaker remains active when an extension speaker is connected (BA-210).

 Use a (non-shielded) speaker cable with 1/4" TS ends only to make the connection. Do not use instrument cables as they may overheat.

## Favorite Settings

Use the following to record your own favorite amp settings.

-15 dB  
  
Input

**SCRAMBLER**  
  
 Drive      Blend

Ultra Hi  
  
  
Ultra Lo  
Volume

Ultra Hi  
  
  
Ultra Lo  
Bass

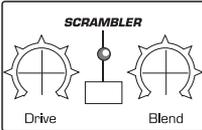
Ultra Hi  
  
  
Ultra Lo  
Mid

Ultra Hi  
  
  
Ultra Lo  
Treble

Ultra Hi  
  
  
Ultra Lo  
AUX Level

  
  
HF Mute

-15 dB  
  
Input

**SCRAMBLER**  
  
 Drive      Blend

Ultra Hi  
  
  
Ultra Lo  
Volume

Ultra Hi  
  
  
Ultra Lo  
Bass

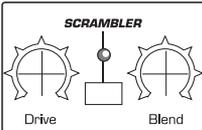
Ultra Hi  
  
  
Ultra Lo  
Mid

Ultra Hi  
  
  
Ultra Lo  
Treble

Ultra Hi  
  
  
Ultra Lo  
AUX Level

  
  
HF Mute

-15 dB  
  
Input

**SCRAMBLER**  
  
 Drive      Blend

Ultra Hi  
  
  
Ultra Lo  
Volume

Ultra Hi  
  
  
Ultra Lo  
Bass

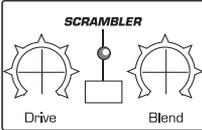
Ultra Hi  
  
  
Ultra Lo  
Mid

Ultra Hi  
  
  
Ultra Lo  
Treble

Ultra Hi  
  
  
Ultra Lo  
AUX Level

  
  
HF Mute

-15 dB  
  
Input

**SCRAMBLER**  
  
 Drive      Blend

Ultra Hi  
  
  
Ultra Lo  
Volume

Ultra Hi  
  
  
Ultra Lo  
Bass

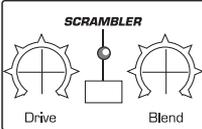
Ultra Hi  
  
  
Ultra Lo  
Mid

Ultra Hi  
  
  
Ultra Lo  
Treble

Ultra Hi  
  
  
Ultra Lo  
AUX Level

  
  
HF Mute

-15 dB  
  
Input

**SCRAMBLER**  
  
 Drive      Blend

Ultra Hi  
  
  
Ultra Lo  
Volume

Ultra Hi  
  
  
Ultra Lo  
Bass

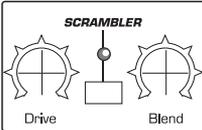
Ultra Hi  
  
  
Ultra Lo  
Mid

Ultra Hi  
  
  
Ultra Lo  
Treble

Ultra Hi  
  
  
Ultra Lo  
AUX Level

  
  
HF Mute

-15 dB  
  
Input

**SCRAMBLER**  
  
 Drive      Blend

Ultra Hi  
  
  
Ultra Lo  
Volume

Ultra Hi  
  
  
Ultra Lo  
Bass

Ultra Hi  
  
  
Ultra Lo  
Mid

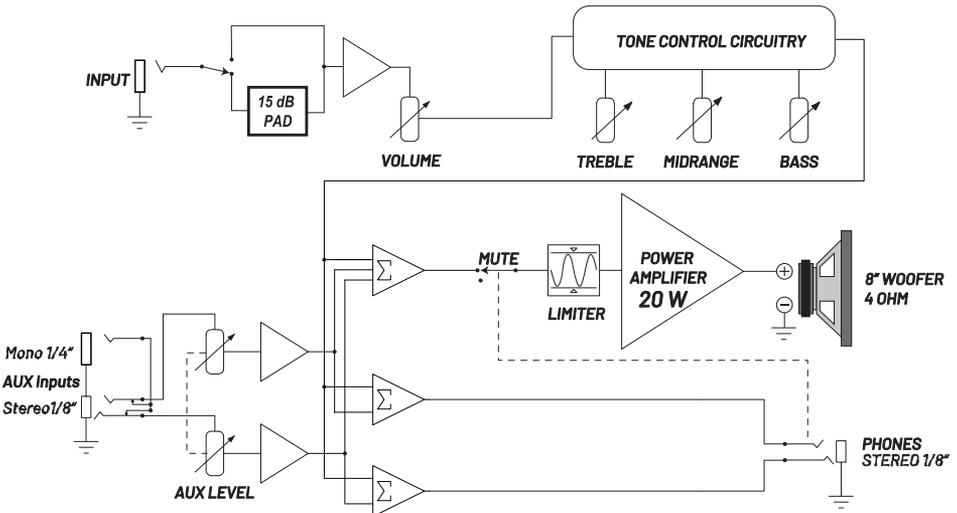
Ultra Hi  
  
  
Ultra Lo  
Treble

Ultra Hi  
  
  
Ultra Lo  
AUX Level

  
  
HF Mute

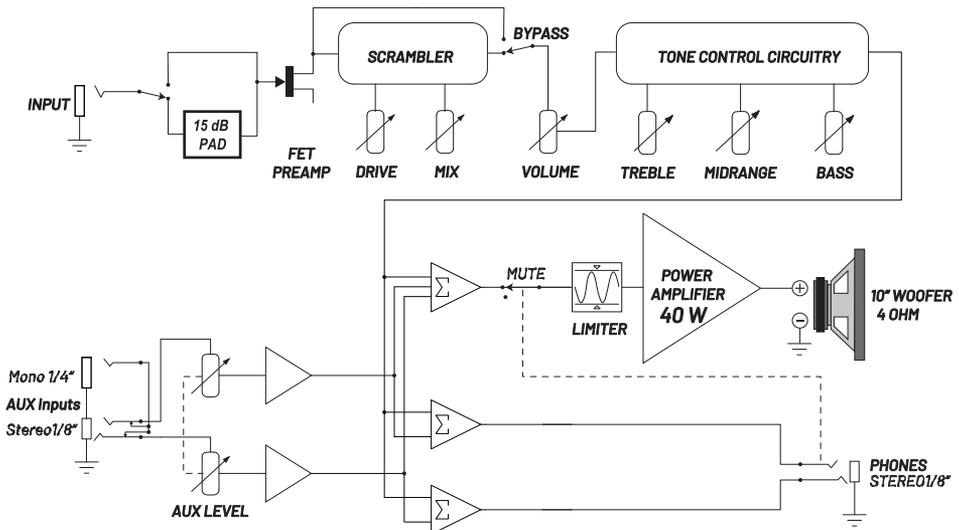
## BA-108 Technical Specifications

Output Power Rating	20 Watts @ 4 $\Omega$ , 10% THD+N
Signal to Noise Ratio	80 dB (20 Hz–20 kHz, unweighted)
Maximum Gain @ 1 kHz	Input: 45 dB
Tone Controls	Bass: +13/-21 dB @ 40 Hz Mid: + 16/-10 dB @ 500 Hz Treble: +12/-16 dB @ 4 kHz
Speaker Specs	1 x 8" speaker: 4 $\Omega$
Maximum Operating Range	40° C ambient temperature, 93% relative humidity, up to 2000 m altitude
Power Requirements	100V AC~ 50/60 Hz, 25W 120V AC~ 60 Hz, 25W 220V AC~ 50/60 Hz, 25W 230-240V AC~ 50/60 Hz, 25W
Size (H x W x D)	16.8 in x 15.0 in x 12.0 in 427 mm x 381 mm x 305 mm
Weight	23.5 lb / 10.7 kg (approximately)



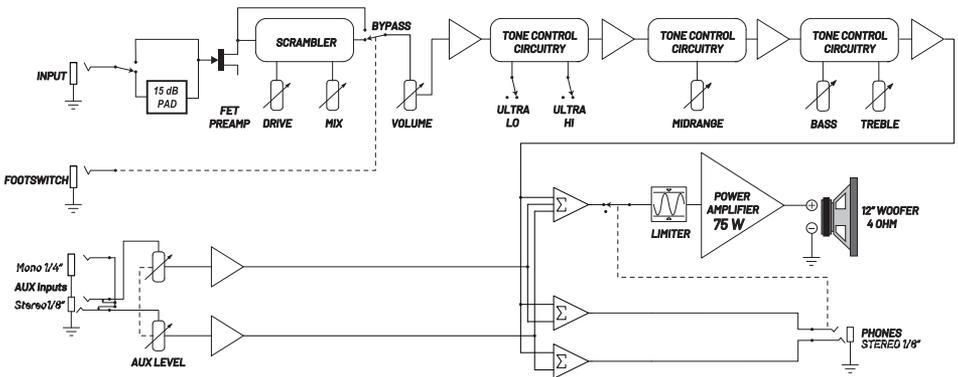
## BA-110 Technical Specifications

Output Power Rating	40 Watts @ 4 Ω, 10% THD+N
Signal to Noise Ratio	84 dB (20 Hz–20 kHz, unweighted)
Maximum Gain @ 1 kHz	Input: 48.5 dB
Tone Controls	Bass: +14/-20 dB @ 40 Hz Mid: +15/-10 dB @ 500 Hz Treble: +12/-16 dB @ 4 kHz
Speaker Specs	1 x 10" speaker: 4 Ω
Maximum Operating Range	40° C ambient temperature, 93% relative humidity, up to 2000 m altitude
Power Requirements	100V AC~ 50/60 Hz, 35W 120V AC~ 60 Hz, 35W 220V AC~ 50/60 Hz, 35W 230-240V AC~ 50/60 Hz, 35W
Size (H x W x D)	18.8 in x 16.0 in x 13.0 in 478 mm x 406 mm x 330 mm
Weight	31 lb / 14.0 kg (approximately)



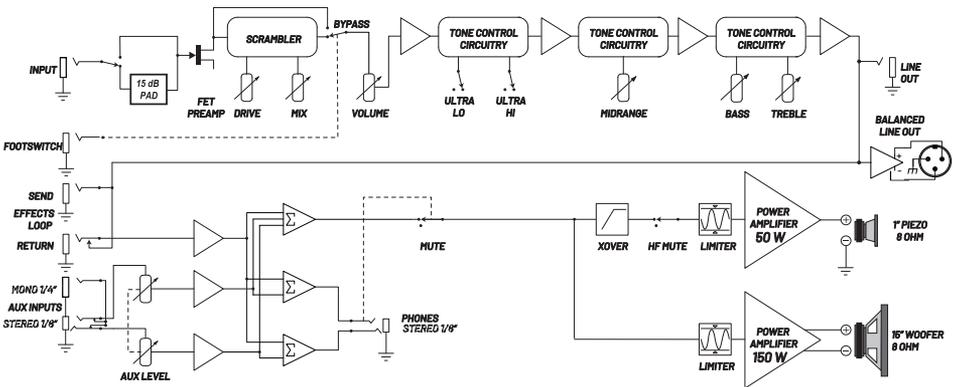
## BA-112 Technical Specifications

Output Power Rating	75 Watts @ 4 Ω, 10% THD+N
Signal to Noise Ratio	80 dB (20 Hz–20 kHz, unweighted)
Maximum Gain @ 1 kHz	Input: 54 dB Aux Input: 33 dB
Tone Controls	Bass: +14/-14 dB @ 40 Hz Mid: +5/-11 dB @ 500 Hz Treble: +15/-15 dB @ 4 kHz
Speaker Specs	1 x 12" speaker: 4 Ω
Maximum Operating Range	40° C ambient temperature, 93% relative humidity, up to 2000 m altitude
Power Requirements	100V AC~ 50/60 Hz, 70W 120V AC~ 60 Hz, 70W 220V AC~ 50/60 Hz, 70W 240V AC~ 50/60 Hz, 70W
Size (H x W x D)	20.8 in x 18.0 in x 14.0 in 528 mm x 457 mm x 356 mm
Weight	42 lb / 19.1 kg (approximately)



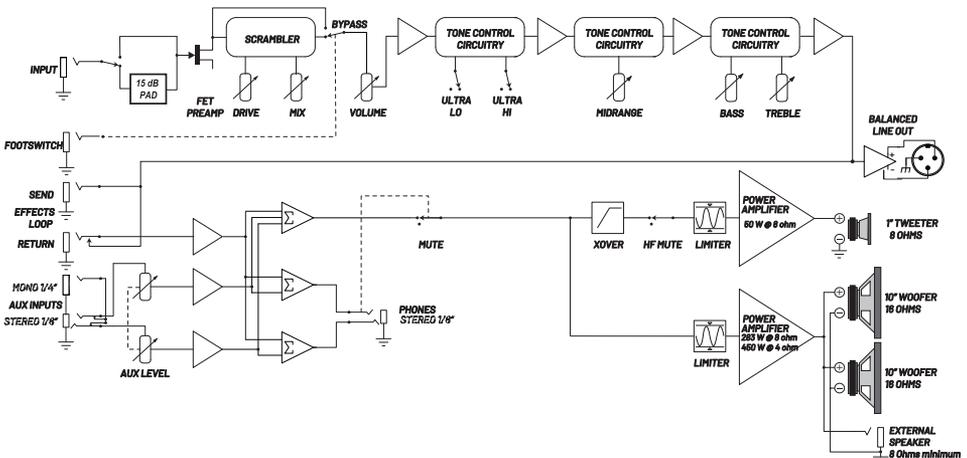
## BA-115 Technical Specifications

Output Power Rating	150 Watts @ 8 Ω, 10% THD+N
Signal to Noise Ratio	90 dB (20 Hz–20 kHz, unweighted)
Maximum Gain @ 1 kHz	Input: 60 dB Aux Input: 39 dB Effects Return: 33 dB
Tone Controls	Bass: +14/-14 dB @ 40 Hz Mid: +5/-11 dB @ 500 Hz Treble: +16/-15 dB @ 4 kHz
Speaker Specs	1 x 15" speaker: 8 Ω 1 x Piezo HF driver
Maximum Operating Range	40° C ambient temperature, 93% relative humidity, up to 2000 m altitude
Power Requirements	100-120V AC~ 50/60 Hz, 50W 220-240V AC~ 50/60 Hz, 50W
Size (H x W x D)	24.8 in x 20.0 in x 15.0 in 630 mm x 508 mm x 381 mm
Weight	45 lb / 20.4 kg (approximately)



## BA-210 Technical Specifications

Output Power Rating	450 Watts @ 4 $\Omega$ , 3% THD+N 283 Watts @ 8 $\Omega$ , 10% THD+N
Signal to Noise Ratio	91 dB (20 Hz–20 kHz, unweighted)
Maximum Gain @ 1 kHz	Input: 73 dB Aux Input: 52 dB Effects Return: 46 dB
Tone Controls	Bass: +14/-14 dB @ 40 Hz Mid: +5/-11 dB @ 500 Hz Treble: +16/-15 dB @ 4 kHz
Speaker Specs	2x10" speakers: 16 $\Omega$ each (8 $\Omega$ in parallel) 1 x Piezo HF driver
Maximum Operating Range	40° C ambient temperature, 93% relative humidity, up to 2000 m altitude
Power Requirements	100–120 VAC~ 50/60 Hz, 150W 220–240 VAC~ 50/60 Hz, 150W
Size (H x W x D)	24.8 in x 20.0 in x 15.0 in 630 mm x 508 mm x 381 mm
Weight	48 lb / 21.8 kg (approximately)





BA Series combos are covered with a durable, fabric-backed vinyl material, so be sure to clean with a dry, lint-free cloth. Never spray cleaning agents on the BA Series combo. Avoid abrasive cleansers which would damage the finish.

Ampeg continually develops new products and improves upon existing ones. For this reason, the specifications and information in this manual are subject to change without notice.

## **Warranty and Support**

Visit **WWW.AMPEG.COM** to...

- (1) ...identify **WARRANTY** coverage provided in your local market. Please keep your sales receipt in a safe place.
- (2) ...**REGISTER** your product.
- (3) ...**CONTACT** Technical Support, or call 818-575-3600.

**www.ameg.com**  
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