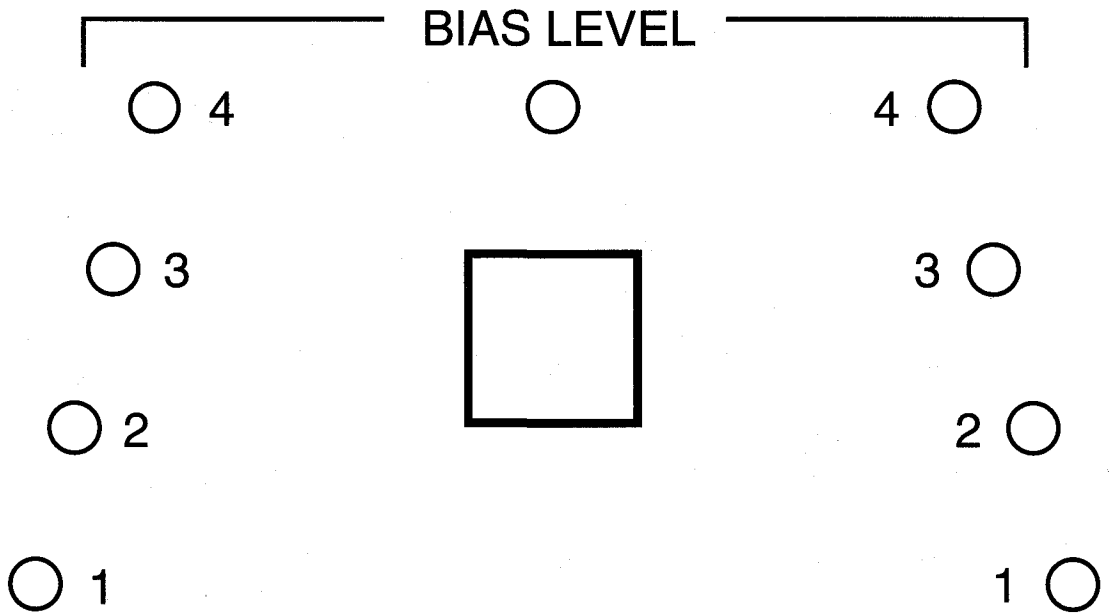




S-SERIES



KSA-100S / 200S/ 300S OWNER'S REFERENCE

INTRODUCTION

Thank you for your purchase of the KRELL KSA-100S/200S/300S power amplifier. These amplifiers represent the latest evolution in amplifier technology, matching unprecedented performance with convenience not obtainable from most high performance audio designs.

Throughout this Reference we will refer to all three of the amplifiers as KSA. All three amplifiers operate identically, while their sonic characteristics, specifications, and dimensions vary. Specific differences will be described in detail.

To obtain the best performance from your KSA, careful attention should be paid to placement, installation and operation. A thorough understanding of these details will help insure satisfactory operation and long life for the KSA and related system components.

This Owner's Reference is divided into several sections, each designed to perform a different function. As you read through it you will become better acquainted with the features and functions that make the KSA series amplifiers a superb value. A Question and Answer section is also included where answers to common questions are provided. Should you have any questions or suggestions please feel free to contact your authorized dealer or the KRELL staff for assistance.

In the unlikely event that your KSA should require service, you will be pleased to know that it is backed by a comprehensive Customer Satisfaction policy and one of the most advanced service facilities in the industry. For detailed information on the terms and conditions of service, please refer to the Warranty and Service section of this Reference, Warranty Registration Card, and your authorized KRELL Dealer or Distributor.

TABLE OF CONTENTS

- 4** UNPACKING
- 5** LOCATION AND REMOTE TURN-ON
- 6** CABINETS AND AC POWER CONSIDERATIONS
- 7** AMPLIFIER FEET AND REMOTE MASTER/SLAVE CONNECTIONS
- 9** INPUT AND OUTPUT CONNECTIONS
- 12** AMPLIFIER OPERATION
- 13** TURN-ON DESCRIPTION
- 14** SYSTEM NOISE
- 15** BIAS LEVEL METER
- 16** FRONT PANEL METER BUTTON
- 17** REMOTE CONTROL FUNCTIONS
- 18** PROTECTION CIRCUITRY AND TROUBLESHOOTING STEPS
- 20** QUESTIONS AND ANSWERS
- 22** SPECIFICATIONS
- 23** WARRANTY AND SERVICE INFORMATION

UNPACKING

NOTE: Due to the extreme weight of the KSA amplifiers, it is strongly advised that unpacking and placement is completed by at least two individuals.

1. Open the box.
2. Fold back the flaps on all four sides of the box and carefully roll it over on to the exposed end.
3. Pull the box straight up and off exposing the foam packing material.
4. Pull the foam piece from the exposed end of the amplifier.
5. Roll the amplifier carefully onto its handles and remove the second piece of foam.

The following items will now be visible:

- | | |
|--------|---|
| 1 | KSA stereo amplifier |
| 1 | Remote control |
| 1 | Warranty card |
| 1 | AC power cord |
| 4 or 5 | Rubber feet bottoms (KSA-300S has 5 feet) |

NOTE: If any of these items are not included, please contact your authorized dealer immediately for assistance.

6. Remove the plastic bag from the amplifier.

NOTE: Save all packing materials. If you must ship your KSA in the future, repack the unit in its original packaging to prevent transit damage. Should the unit require service, send the remote control and AC power cord with the amplifier.

CAUTION: Do not connect the power cord to the AC mains before completing the Installation section.

LOCATION

Place the KSA on a firm level surface away from excessive dirt or moisture. When using custom racks or cabinetry, keep in mind the weight and ventilation requirements for these amplifiers. Ideally the amplifier should be placed as close to the speakers as possible. It is preferable to run long balanced interconnect cables to the amplifier and keep speaker cable length to a minimum. Speaker cable adds impedance to the load the amplifier must drive, regardless of the cable's gauge. All KRELL amplifiers will drive the lowest impedances with ease, but when impedance is added due to long cable lengths, amplifier power is literally wasted in driving the cable. Long speaker cables reduce the maximum power that can be delivered to the speakers.

REMOTE TURN-ON INSTALLATION

Some installations do not have adequate space or arrangement flexibility for the amplifier to be placed near the speakers. To allow for this, the KSA amplifiers can be turned On or Off from a room other than the listening room. This type of amplifier placement is referred to as Remote Installation. The KSA can be placed in a room or space close to the speakers, but out of sight, and turned On and Off from the listening room. There is a provision internally to allow the amplifier to be controlled from a wall AC receptacle and not from the front panel power switch or remote control. We suggest a standard wall switch be mounted in the listening room to control an AC power outlet dedicated to the power amplifier. This can be accomplished by an electrician. Please contact your dealer for assistance.

NOTE: When set-up for remote turn-on, the front panel power switch will not operate, nor will the power switch on the remote control. The meter switches on the front panel and remote are not affected and will operate normally.

NOTE: Remember to keep speaker cable lengths to a minimum.

BASIC INSTALLATION

CABINETS CONSIDERATIONS

High bias amplifiers dissipate much of the power they consume in heat. Because the KSA-100S/200S/300S utilize Sustained Plateau Biasing, they remain cool when not in use. When the KSA is in use, it can become quite hot. Therefore, the KSA should be installed in a location that provides unobstructed ventilation. If you must install the unit on shelves or in a cabinet, extra ventilation may be necessary. This often can be accomplished with cabinet shelf spacing or unit location. In more extreme instances the use of small fans can aid in removing excessive heat from internal spaces. Consult your dealer for assistance.

Generally, with the front and rear of a cabinet open, 3-4 inches of clearance on each side and 8 inches of vertical clearance, the amplifier should have adequate ventilation.

The KSA amplifiers have very large power supplies. As a consequence the amplifiers are quite heavy. When purchasing a rack or cabinet, keep weight in mind. Most racks are not capable of withstanding the weight of these units.

The exact weight and dimensions for the KSA-100S/200S/300S are in the Specifications section of this manual.

AC POWER CONSIDERATIONS

The KSA should have a dedicated 20 amp line and should only be operated with the power cord supplied. Use of other power cords may damage the amplifier and void its warranty. Please consult KRELL or your dealer BEFORE using any devices designed to alter or stabilize the AC power for the KSA. AC line filters and/or stabilizers must meet or exceed the power transformer size in the amplifier. As an example, the line conditioner will require a supply reservoir greater than 2800 VA to condition a KSA-200S. If you have any questions about placement or AC power conditions, please consult KRELL.

AMPLIFIER FEET

The feet on the KSA can be used in several different ways. They are made from machined Delrin and are supplied with separate threaded rubber bottoms. The rubber bottoms can be screwed into the feet for protection of fragile surfaces such as hardwood floors or furniture. For use on rugs, we recommend using the feet without the rubber bottoms. KSA feet can also accept the KRELL AMDs (Acoustic Mass Damper). The AMD is a type of spiked foot that threads into the bottom of the foot. These improve the amplifier's sonic performance in most installations and are particularly effective on carpeted floors. Please contact your dealer or KRELL with any questions.

REMOTE, MASTER/ SLAVE CONNECTIONS - LINKING MULTIPLE AMPLIFIERS

There are two Remote connectors on the back of the KSA labeled Master and Slave provided for linking multiple amplifiers together. When the Master/ Slave cables are connected to each of the amplifiers involved, their meter function controls and On/Off capabilities will be linked and controlled from one amplifier.

Select the amplifier that you want to receive operation commands. That amplifier will be the Master. Follow the instructions below for connecting the amplifiers. Consider the Master receptacle the output and the Slave receptacle the input.

1. Turn all of the amplifiers Off and unplug them from the AC wall receptacle. Plug the amplifiers back in but do not turn them on before starting. This ensures all amplifiers are synchronized when the cabling is connected. Connect one end of the linking cable to the Master output on the back panel.
2. Connect the other end of the linking cable to the Slave Input on the second amplifier.
3. To synchronize three amplifiers, connect a second linking cable to the Master output on the second amplifier. Connect the remaining end to the Slave input on the third amplifier.

BASIC INSTALLATION

4. Connect additional amplifiers as described in step 3.

5. When the cables are all in place, point the remote control at the amplifier designated as Master and press the Power button. The amplifiers will all turn on at the same time.

The meter display for each amplifier may vary. Manually change the meter display via the front panel until all of the meters match. The amplifier will remember the meter setting when cycled On/Off via the remote control or front panel switch. If the unit is unplugged the memory will not remain and the meters may need to be resynchronized. When linked and synchronized correctly, ON/OFF and meter functions will happen simultaneously only when the remote control is used.

NOTE: Each individual amplifier can be turned ON/OFF and have meter functions changed via the front panel separately. If you change an individual amplifier's function, it needs to be manually changed back to follow the functions of the other amplifiers so the synchronization remains intact.

NOTE: Contact your dealer or KRELL Industries to obtain remote cable links.

INPUT AND OUTPUT CONNECTIONS

CAUTION: When making connections to this component or any other, make sure the power amplifier is OFF and the preamplifier is in the MUTE or STAND-BY mode.

The wiring to and from the amplifier, and all components in general, should be arranged in a neat, organized manner. Specifically, AC wires should be separated from audio wires. This practice avoids hum or other unwanted noise from being induced into the system.

1. Connect the speaker cables to the amplifier's output terminals.

The KSA utilizes two custom sets of parallel binding posts for the left and right channels respectively. This configuration makes cable connections and bi-wiring simple. The binding post will only accept a spade lug or ring terminal of proper inner radius. Bare wire, banana lugs or pins will not work. Each binding post is labeled either (+) or (-) between the sets of posts on the rear panel. The (+) sign between the binding posts indicates the positive output terminal. This is commonly referred to as red or hot. The (-) sign between the binding posts indicates the negative output terminal. This is commonly referred to as black or ground.

CAUTION: Make sure all cable terminations are of the highest quality, free from frayed ends, shorts or cold solder joints.

2. Connect the interconnect cables from your preamplifier to the input of the KSA.

The KSA has balanced and single-ended inputs. The balanced inputs use 3-pin XLR connectors and the single-ended inputs use standard RCA connectors. We recommend use of balanced interconnects sonically and electrically because of their ability to reduce noise and not incur significant sonic loss due to extreme cable lengths.

CAUTION: Use only one input to the amplifier at a time. The KSA is shipped with shorting pins in the XLR inputs. These pins should remain in the XLR inputs if you are operating the KSA in the single-ended mode. When the shorting pin is inserted, pin 1 and pin 3 are shorted together. The shorting pins must be removed to connect the KSA for balanced operation.

CONNECTIONS

The pin assignment for the XLR is:

pin 1 = shield (ground)

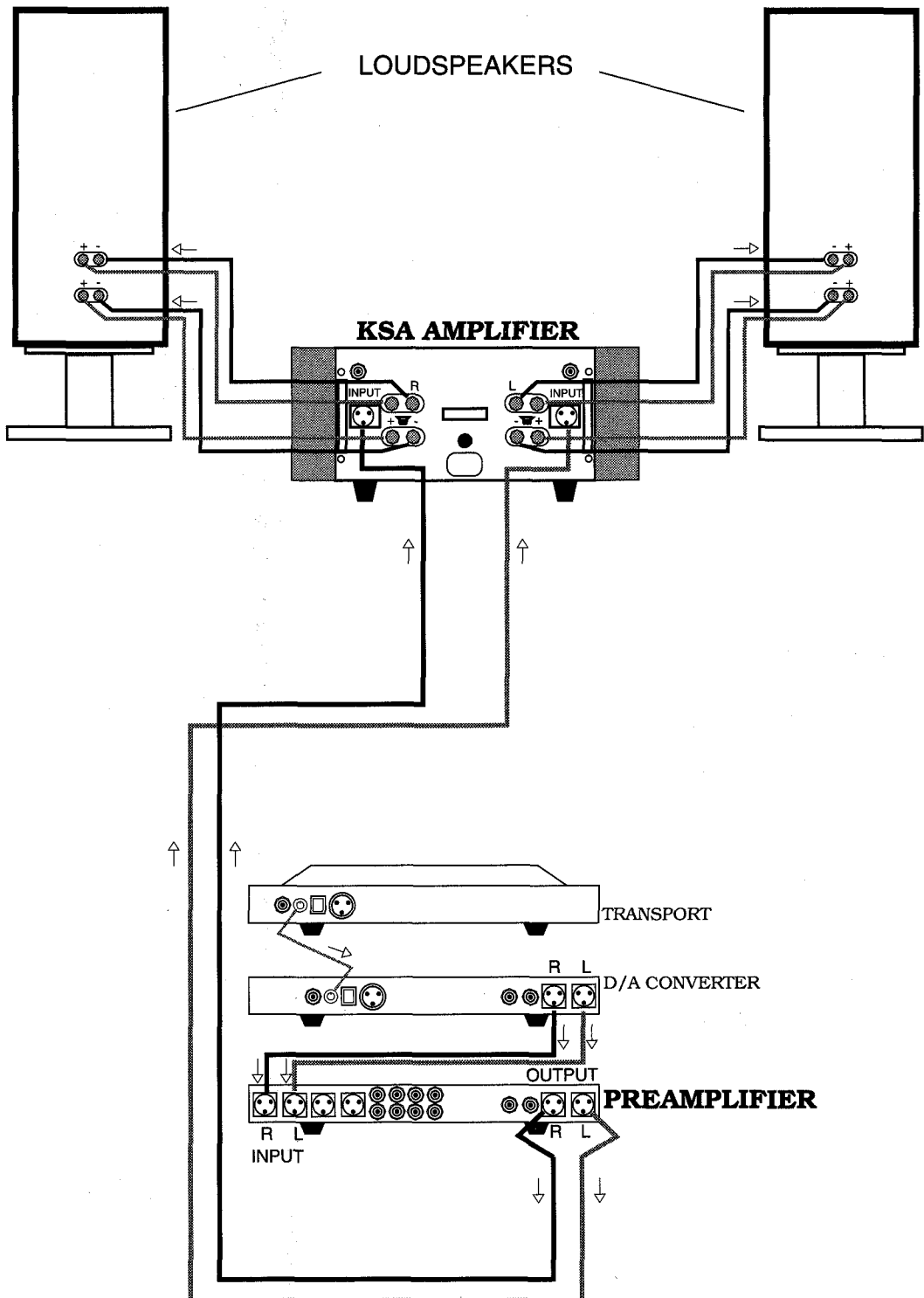
pin 2 = non-inverting input (hot)

pin 3 = inverting input

NOTE: The RCA center conductor for each channel is wired in parallel with pin 2, the non-inverted input. Only one of these inputs should be connected to a preamplifier. Do not attempt to use the single-ended and balanced inputs simultaneously.

3. Insert the AC power cord into the receptacle located on the back of the KSA. Insert the other end into the wall AC receptacle. (Refer to the Basic Installation section, for AC power requirements)

4. The amplifier is now ready for operation. Should you have any questions regarding system set-up, contact your dealer or KRELL Industries.



AMPLIFIER OPERATION

Understanding the operation of the amplifier is very easy. Equally important is an understanding of the care that should be exercised when operating the system as a whole, in relation to the enormous power output of the KSA. Simple mistakes, such as switching between active sources without muting the preamplifier output, or bumping/miscuing a cartridge, can generate large transients at low frequencies. With this type of transient the KSA can generate enough power to damage most loudspeakers. All switching of sources should be done with the preamplifier level either muted or fully attenuated. Inputs to the amplifier should not be changed while the amplifier is on.

NOTE: Care must be taken when setting high playback levels. Because of their tremendous reserve of clean power, KRELL amplifiers safely drive speakers to higher sound pressure levels than other amplifiers. This also means driving the speakers to their limit. Always turn the level down at the first sign of distortion.

When turning the system off, turn the volume on the preamplifier all the way down or put it into the MUTE or STAND-BY position. Turn the amplifier off. This avoids the possibility of a turn-off transient from another component getting to the speakers. Because of the tremendous output power in the KSA amplifiers, the amplifier should not be turned on or off with music playing. This can arc the speaker output relays and potentially damage the amplifier.

DESCRIPTION OF TURN-ON SEQUENCE

When turning on the system, the amplifier should always be last.

The KSA On/Off switch is part of a multi-level turn-on circuit that goes through several steps of protection. Upon turn-on, the amplifier's outputs are not connected to the speakers. After the protection circuits have determined that the unit has completely stabilized, the speaker relays will engage. You will hear a click at this point. The LED's in the bias meter will start at the highest bias level upon turn-on and slowly work their way down to no-bias. This process takes approximately 1 minute. The amplifier is ready to use once the bias meters have settled to the no-bias level .

1. Push the black Power button on the amplifier front panel to turn it on. The Power button is the larger of the two buttons at the top of the face plate. The blue LED labeled POWER in the center of the bias meter will illuminate when the Power button is depressed. The amplifier will progress through the turn-on sequence described above.
2. With the preamplifier in the Mute position, or volume control fully attenuated, select a source. Turn the volume control up to your desired listening level.
3. Enjoy.

SYSTEM NOISE CONSIDERATIONS

AC grounding often becomes critical when connecting high performance audio gear. When mixing and matching audio components, each with their own ground potentials, a low frequency hum can become present in one or both speakers. This can often occur when introducing a new component into the system.

If there is a low frequency hum coming from the speakers when the KSA is connected into the system, follow these simple trouble-shooting steps:

1. Check all of the input and output connections, making sure they are of sound construction. With the amplifier off, remove the interconnect wiring and turn the amplifier back on. If the hum disappears, shut the amplifier off and reinsert one of the interconnect cables and turn the amplifier back on. If the hum is present with one or both interconnects inserted, there may be a defective cable. Have the interconnect cabling checked before proceeding.
2. If the interconnect proves to be fine, more than likely you are experiencing a ground loop. This can often easily be eliminated. Contact your dealer or KRELL for assistance.

BIAS LEVEL METER

The KSA amplifiers utilize Sustained Plateau Biasing, a proprietary KRELL design. The Bias display meter on the front panel of the amplifier displays which level of bias the amplifier is utilizing. Unlike sliding bias designs, Sustained Plateau Bias only changes level when the demand situation relative to input and source material changes. The signal passes through a section called an Anticipator circuit. Once the level of bias is determined by the Anticipator circuit, it automatically biases the output of the amplifier before the signal is passed through the output stage. The Anticipator circuit is several times faster than the output stage itself. This technique insures all signal is passed through the amplifier in pure Class A operation. If the amplifier only requires a low level of Class A bias, the amplifier will bias itself to use only the amount of Class A power necessary to the demand parameters. Should the demand parameters exceed the bias level the amplifier is presently working under, the amplifier will increase its bias to the next level to allow all signal to come through in Class A operation. If the demand parameters are less then the bias level indicates for more than 15-20 seconds, the amplifier will drop to the next lowest bias level.

The bias levels are indicated by appropriate LEDs in the faceplate meter display as they are activated.

Should the demand parameters reach a point at which the temperature of the external heatsink reaches approximately 80 degrees Celsius, the last two levels of bias 3 and 4 will be disabled until the heatsink temperature drops to a safe operating level. The overall output power of the amplifier is not changed when this occurs, only the amount of class A power. You will notice the LEDs corresponding to the top two levels of bias will not illuminate. The LEDs for levels 3 and 4 will come back on when the heatsink temperature is at safe operating levels. This temperature fluctuation will not harm the amplifier. It is provided for consumer safety in a home listening environment.

FRONT PANEL METER BUTTON

A small button beneath the Power button on the front panel controls Bias Meter display illumination. When engaged, the meter display will no longer indicate bias levels; only the Blue pilot LED will be visible. The Bias Level meter can also be turned on or off via the remote control.

REMOTE CONTROL FUNCTIONS

The KSA-100S/200S/300S are the first high performance amplifiers to utilize remote control functions. The amplifiers can be switched on or off and the meter function can be changed from your listening position via the hand-held remote control.

The KSA remote control duplicates the front panel switches on the amplifiers. The Power button will turn the amplifier on and off, while the Meter button will choose between a full bias meter display or no bias LED illumination.

When the amplifier is switched On, the Blue POWER LED and Bias Level Meter display will illuminate. When the amplifier is switched Off, no LEDs will be illuminated.

When the Bias Level Meter is turned off, no LEDs will be visible except for the blue pilot LED. When the Bias Meter display is on, the bias level will be displayed with the appropriate LEDs.

BATTERY INSTALLATION

NOTE: Batteries should be replaced when the KSA functions from the remote control become intermittent.

1. Remove the four hex head screws from the back of the remote control.
2. Remove the back plate to expose the battery storage compartment.
3. Replace batteries (Refer to the polarity drawing while inserting the batteries)
4. Replace the back plate and insert the four hex head screws.

PROTECTION CIRCUITRY

There are no fuses in the KSA. The amplifier is protected by a series of non-intrusive, opto-coupled circuits that constantly evaluate the amplifier's operation. Appropriate protective action exists for DC conditions, short circuit, oscillation, AC power anomalies, high ground resistance and out-of-phase ground. Collectively, the protection circuitry is designed to avoid damage to the amplifier or speakers caused by other defective components, faulty wiring, mishandling of the system or amplifier failure. When the protection circuit is engaged, the amplifier will shut off and short its output. The amplifier can be turned on after resolving either the input or output problem.

SIMPLE TROUBLE-SHOOTING STEPS

Follow these steps when trying to resolve the cause of potential amplifier related failure. If the amplifier will not turn on, or stay on:

1. Disconnect all input and output connections. Once this is completed, try turning the amplifier on.

If the amplifier does not come on, check the circuit breaker on the back panel. If the circuit breaker has popped out or appears to be more extended than usual, reset the breaker switch by pressing it back in. If the amplifier still does not come back on, call KRELL.

If the amplifier does not come on and the circuit breaker on the back of the unit seems normal, check the house circuit breaker or fuse for the power outlet associated with the amplifier.

NOTE: When turning the amplifier on and off between cable checks, let the amplifier settle for at least 45 seconds before turning it back on.

2. If the amplifier turns on and appears to work properly again, turn the amplifier off and reconnect the output speaker cables for one channel only. If the amplifier turns on normally, reconnect the other channel output speaker cables.

Should the amplifier turn off when either output cable is connected, the problem is cable or speaker related. Check to make sure there are good mechanical connections on the speaker cabling and there are no frayed ends or wires shorting the output terminals together. Have your speaker cables checked and repaired if necessary by your dealer before proceeding.

3. If the amplifier turns on normally with only the speaker cables connected to the output, turn the amplifier off and reconnect the interconnect cable for one channel only. If the amplifier turns on normally reconnect the other channel's interconnect cable and turn on the amplifier.

Should the amplifier turn off when either interconnect cable is connected, the problem is cable, preamp or source component related.

Check to make sure there are good mechanical connections on the interconnect cabling and there are no broken terminations. Have your interconnect cables checked and repaired if necessary by your dealer before proceeding.

Should the cabling from the preamplifier to the amplifier input be functional, check source component interconnects. Should the interconnects prove to be sound throughout the system, have the preamplifier and any suspect source components checked. The source components should be checked individually through the preamp, should the preamp prove to work properly.

4. Should all of the system components, cabling and AC power requirements be sound and the amplifier continues to not work, call your dealer, distributor or KRELL to arrange for service. Service can be handled directly through KRELL. Should you need a KRELL component serviced please call the factory to discuss the problem and obtain a Return Authorization number (RA#) and shipping information.

Q. Should I leave the KSA on at all times?

A. Because of Sustained Plateau Bias, the KSA can be left on at all times without fear of damage, excessive heat or excessive power consumption. The KSA amplifier however, is designed to be turned On/Off, and can do so without degradation. The amplifier will work at full performance within minutes of turn-on.

Q. When I push the power button on the front of the KSA, the amplifier doesn't turn on. What should I do?

A. Check the input and output connections, then retry the amplifier. Check the circuit breaker on the back of the unit and reset it if necessary. Consult the protection circuitry section of this manual for more detailed troubleshooting procedures.

Q. When I turn the amplifier on there is a loud hum through the speakers. There was never a hum before the KSA was in the system. What should I do?

A. Often when a new component is introduced into an audio system a hum may become present. This is often caused by a ground loop in the system or by defective cabling. Check your cables to and from the amplifier. If the hum persists, contact your dealer or the KRELL staff for assistance.

Q. Can I use special audio power cords on the KSA?

A. You can experiment with special power cords as long as they are grounded on both ends, meet the amplifier's 20 amp power requirement, and are safety approved by organizations like CSA or UL. The use of them, however, is not recommended without first consulting your dealer or the KRELL factory.

Q. My speakers only have one set of binding posts. Which set of binding posts should I use on the amplifier?

A. The two binding posts for each channel on the KSA are the same point electrically. You can use either the top set of posts or the bottom set. They sound and work the same.

Q. My speakers are only rated for 150 watts, is the KSA-200 or KSA-300 going to be too much power for them?

A. Seldom do you break a speaker by over powering it. Usually lower powered amplifiers will clip driving a loud speaker during heavy demand situations and consequentially damage the speaker. KRELL amplifiers can break speakers, but a responsible listener should know the limitations of his/her system and exercise caution. The higher powered KRELL amplifiers will sound better because of the increased control over the speaker. Should you have any questions contact your dealer or the KRELL staff for assistance.

Q. When I connected the KSA to my system with the single-ended inputs a loud buzz came through my speakers. Is the amplifier broken?

A. The KSA has special shorting pins in the XLR inputs that enable the amplifier to function properly with the single-ended inputs. If the shorting pins are not inserted between pin 1 and 3 the 180 degree input will be open to excess noise.

Otherwise single-ended inputs will work fine with the unit. The performance of the amplifier is much improved when using the balanced inputs.

SPECIFICATIONS

AMPLIFIER	KSA-100S	KSA-200S	KSA-300S
THD (1KHz/20KHz)	0.1%/0.5%	0.1%/0.3%	0.1%/0.3%
GAIN	26.0dB	25.5dB	25.5dB
SIGNAL TO NOISE	100dB	108dB	110dB
INPUT SENSITIVITY	1.4VRMS	2.1VRMS	2.5VRMS
INPUT IMPEDANCE	47K	47K	47K
OUTPUT VOLTAGE (PEAK TO PEAK/RMS)	80.0/28.3	113/40.0	139/49.0
OUTPUT POWER			
8 Ω (ohms)	100W	200W	300W
4 Ω	200W	400W	600W
2 Ω	400W	800W	1200W
1 Ω	800W	1600W	2400W
DIMENSIONS			
LENGTH	19.25"	21.0"	25.0"
WIDTH	19.0"	19.0"	19.0"
HEIGHT	8.5"	8.5"	8.5"
SHIPPING WEIGHT	95LBS	125LBS	200LBS

WARRANTY AND SERVICE

THERE ARE NO USER-SERVICEABLE PARTS INSIDE THE KSA-100S/200S/300S.

The KSA-100S/200S/300S has a limited and transferable warranty of five years for parts and labor. The warranty period begins on the date of retail purchase, as noted on the retail sales slip provided by an authorized KRELL Dealer or Distributor, or on the warranty registration card sent to KRELL. In the event adequate proof of purchase date is unavailable, the warranty period will begin on the date the unit was originally shipped from the factory. The original ship date can be determined by KRELL from the serial number.

The warranty for KRELL products is valid only in the country to which they were originally shipped, through the authorized KRELL Distributor for that country, and at the factory. There may be restrictions on or changes to KRELL's warranty because of regulations within a specific country. Please check with your Distributor for a complete understanding of the warranty in your country.

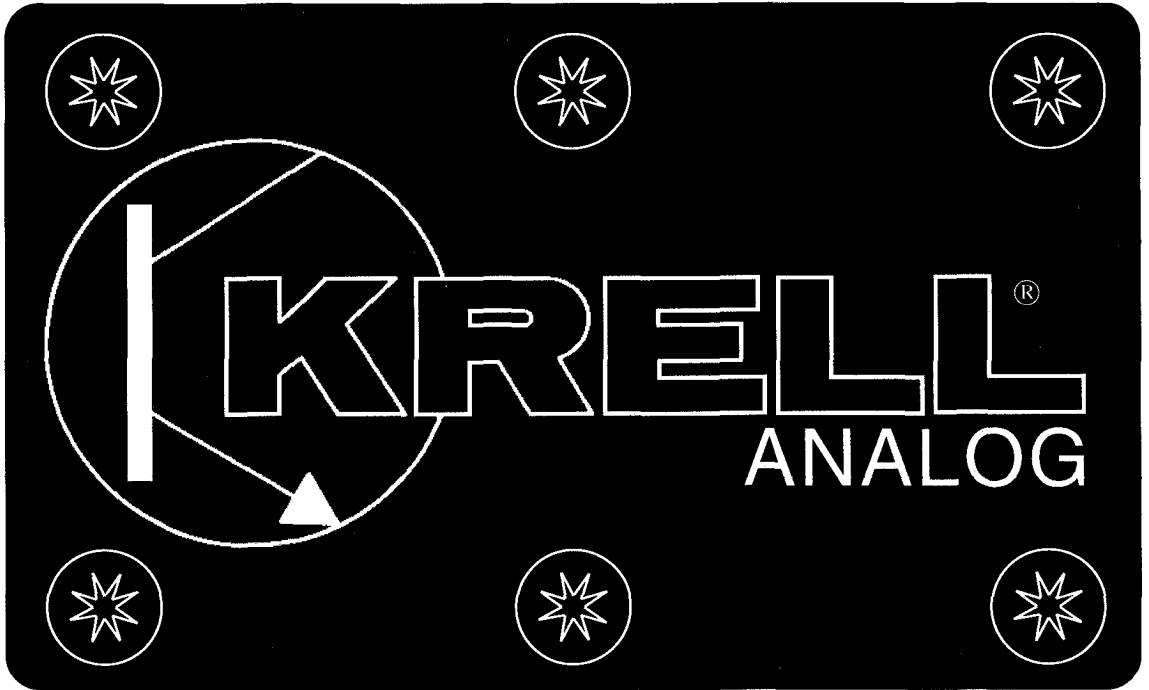
Freight to the factory is your responsibility. Second day return freight within the United States is included in the warranty. If you have purchased your KRELL product outside the States and wish to have it serviced at the factory, all freight and associated charges to the factory are your responsibility. KRELL will pay return freight to the US-based freight forwarder of your choice. Freight and other charges to ship the unit from the freight forwarder to you are also your responsibility.

The operating voltage of this unit is determined by the factory and can only be changed by an authorized KRELL Distributor or at the factory. The voltage for the KSA-100S/200S/300S in the USA can not be changed until six months from the original purchase date. Any unauthorized voltage conversion, disassembly, component replacement, perforation of chassis, updates, or modifications performed to the unit will void the warranty.

KRELL is not responsible for any damage incurred in transit. KRELL will file claims for damages as necessary for units damaged in transit to the factory. You are responsible to file claims for shipping damages during the return shipment.

The use of any packing material other than original is not recommended. KRELL may, at its discretion, pack a unit in new packing for the return shipment and bill you for such packing if the unit was packed in non-standard packing or the original packing is so damaged as to be unusable. Should you need to purchase additional packaging please contact your authorized KRELL Dealer, Distributor or KRELL for assistance.

IMPORTANT: If you think there are problems with your unit, please contact your Dealer, Distributor, or the factory immediately. Do not return any unit to KRELL for repair without first calling to discuss the problem and to obtain a Return Authorization number.



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(KSA9406)

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