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KKICKER SX Amplifiers

WITH DIGITAL SIGNAL PROCESSING



Owner's Manual 5X1250.1, 5X650.1 Mono Suewoofer Amplifiers





SX .1 Series Amplifier Owners Manual

Mono-Block Models: SX650.1 / SX1250.1

Attention:

Please take a moment and record the information asked for below in the provided area. It is also a good idea to attach the original sales receipt or a copy of it to this page for future reference

If for any reason you require service on this amplifier during the warranty period, you will need to provide this information and a copy of the receipt to Kicker to validate your warranty.

ALWAYS KEEP YOUR RECEIPT!

Dealer Where Purchased: _

Purchase Date:

Amplifier Model Number:

Amplifier Serial Number:

Congratulations!

You have just purchased the latest in amplifier technology to carry the famous KICKER name. Your KICKER SX series amplifier employs the latest in DSP signal processing to give you total control over your sound. Like all KICKER products it is designed and built to give you years of powerful and trouble-free performance. This installation manual contains valuable information on how to get the most out of your new SX series amplifier.

Thanks for buying KICKER. Enjoy!

Features

Low Impedance Operation Stable into 2 ohm (SX650.1) or 1 ohm (SX1250.1) mono loads.

SORT Protection Circuitry (Short circuit, Over-volt Reverse polarity, Thermal) Protects amplifier from accident and out of spec operation.

MOSFET Power Supply Provides high efficiency operation.

PAST (Pre Amp Signal Transfer) Output RCA jacks to pasincoming signal to another amplifier or component.

Class D High efficiency Class D design for maximum out power with minimal current draw.

Amp Strapping Allows you to combine two like mod together for double the power at double the impedance!

Low Pass Filter Fully adjustable digital crossover with variable slope and crossover frequency. 30 Hz - 200 Hz in increments. OFF - 48 dB per octave slope in 6 dB increme

High Pass Filter Fully adjustable digital crossover with variable slope and crossover frequency. 10 Hz - 60 Hz in 1 increments. OFF - 24 dB per octave slope in 6 dB increme

KickEQ Fully adjustable single band digital parametric eq izer with variable Q (bandwidth), variable center frequency variable boost or cut. Q range .5 - 10 in .5 steps. Center frequency 20 Hz - 200 Hz in 1 Hz steps. Boost or cut range 18 dB. **Adjustable Phase** The output phase (polarity) can be set at 0 Degrees or 180 Degrees.

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oltage,	UltraMatch Gain Structure Digital input gain control with five selectable gain ranges (1 volt, 2 volt, 4 volt, 8 volt, 16 volt) with 12 dB of adjustment in each range in .5 dB steps.
ents	SickBay and On Board Diagnostics Various tools to troubleshoot installation issues and check amp status.
ass the	Kompressor A 4-setting, user-selectable bass compressor used to fatten up your sub bass. OFF, RED-LINE, CONTOUR and ATTACK with +/- 24 dB of adjustment to compensate for speaker size or listening style.
utput	ISIS (pronounced eye-sis) (Indicate S tatus & Input S ettings) The user interface to view or adjust current settings and check the status of your Kicker SX amplifier.
dels e! :h	BLAST Port (B ass Level And Signal Transfer) Provides Remote Bass Level Control and control signal transfer between multiple SX amplifiers.
n 1 Hz ients. ith	EndKaps Cast aluminum, custom, removable covers to pro- tect and hide all your wiring connections to the amplifier. Can be prepped and painted any custom color you choose.
1 Hz ients.	SASA (S hake A S tick A t) So many more featuresit is more than you can Shake A Stick At. (It's an Oklahoma thing!) Read
equal- cy and	on to find out!
ge +/-	

Meet the ISIS interface (Indicate Status & Input Settings). The ISIS (pronounced eye-sis) allows you to view the current conditions and settings of your amplifier as well as change the many user-adjustable settings.The ISIS system consists of the VFD (Vacuum Fluorescent Display) and the nine soft touch buttons that make up the KEYPAD.

VFD DISPLay



Here is a brief description of the indicators found on the VFD.

AMP1 - Indicates amplifier 1 is selected for adjustment. Only available in four channel amps.

HMPZ - Indicates amplifier 2 is selected for adjustment. Only available in four channel amps.

 $\ensuremath{\text{LDCK}}$ - Indicates the amplifier controls are locked out and not usable.

LEFT - Indicates an action or adjustment of the left channel.

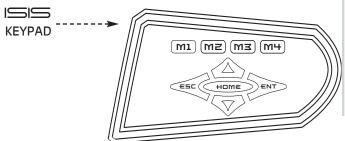
5Y5 - Indicates you are in the system menu.

RIGHT - Indicates an action or adjustment of the right channel.

MUTE - Indicates you are in the mute menu or the mute function is active.

VFD DISPLAY - cont

GFIN - Indicates you are in the gain menu. **ΞΦ** - Indicates you are in the equalizer menu. LFF - Indicates you are in the low pass filter menu. HPF - Indicates you are in the high pass filter menu. **PHASE** - Indicates you are in the phase menu HOMP - Indicates you are in the Kompressor menu. **mem-1** - Memory preset 1 activated. **mem-z** - Memory preset 1 activated **mem-z** - Memory preset 1 activated **mem-H** - Memory preset 1 activated.



AMP1 **XKICKER** AMP2 LOCK LEFT SYS RIGHT MUTE GAIN EQ LPF HPF PHASE KOMP

K.I.E.K.E.R.

MEM-2 MEM-3 MEM-

SX ,) Serves Amplifiers

4

VFD



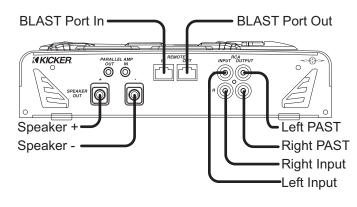
These controls and their usage will be explained later with more detail in each menu usage section.

End Panel Views

The BLAST Port is used to connect the Remote Bass Level Controller and for transferring control signals from one SX amplifier to another SX amplifier. An RJ45 cable is required to connect the BLAST Port (Out) of one amp to the BLAST Port (In) of another. This is only required if you want to control more than one amplifier with the same Bass Level Controller. More details on this further in the manual.

The speaker terminals are custom-machined connectors with full protective shrouds and are designed to accept heavy gauge speaker wire assures maximum power transfer and damping with minimal power loss.

Gold-plated RCA input connectors and **PAST** jacks provide solid input and output connections for your pre-amp signal.



Custom-machined power block accepts up to a 2 Ga wire for both power and ground connections and up to an 8 Ga for remote turn-on assures maximum power transfer with minimal loss.

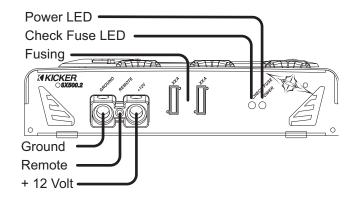
On-board fusing (number of fuses vary by amp size) to protect amplifier against over current conditions and reverse polarity.

Power LED indicates amplifier is powered up and operating.

Check Fuse LED indicates a fault with the end panel fuses. This could be fuses which are not seated properly, faulty fuses or blown fuses.

NOTE...

SX1250.1 does not have on-board fusing or the Check Fuse LED due to larger external fusing requirements.



Mountine

When selecting a location to mount your Kicker amplifier be sure it is structurally sound and that there are no items behind the area that could be damaged by the screws. Check for wiring, brake lines, fuel lines, gas tanks, etc.

All amplifiers generate heat under normal operation. Be sure to choose a location that allows adequate ventilation for the amplifier. Also consider that the air temperature inside an automobile's trunk can reach upwards of 140 degrees fahrenheit. An amplifier mounted in the trunk may require additional cooling such as extra fans moving air around the amplifier's chassis or ventilating the trunk to exchange the hot air in the trunk for cooler air outside. If possible, mounting the amp in the passenger compartment will allow cooler operation.

Remember that the controls on top of the amp will need to be accessible for adjustment later. Keep this in mind as you choose your amplifier's mounting location.

Now that you are ready to mount your amplifier, use the supplied 3mm allen wrench to remove the amplifier EndKaps. This will give you access to the mounting holes in the amplifier and all wiring connections.

See Fig. 1

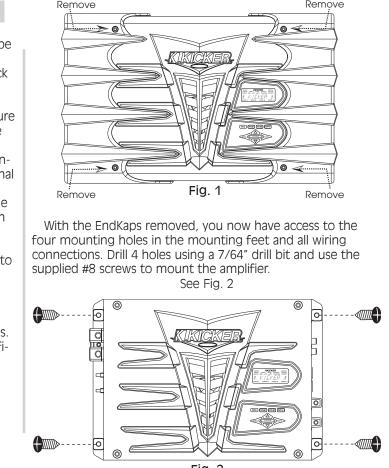
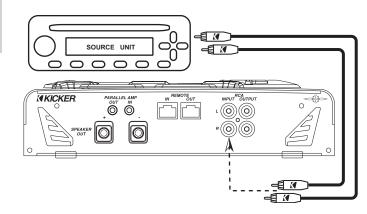


Fig. 2

WRNG

Signal is input into the amplifier using the low level RCA input connections. If your source unit does not have RCA output connectors you will need to use a Hi-Lo level signal adapter. See your Kicker dealer for more details on this.

The output (PAST) RCA jacks provide an unaltered signal output to feed another amplifier or component.



The use of twisted pair interconnects is recommended for all installations to minimize noise. When routing these cables through the automobile, try to keep them away from factory wiring harnesses and other power wiring. If you need to cross any of this wiring do so at a 90 degree angle to reduce the possibility for noise problems.

When working with power connections it is always recommended that you disconnect the battery to prevent accidents.

The ground should be connected to the amplifier first before making any of the other connections. This wire should be as short as possible (24 inches or less) and connected to a paint/corrosion free solid metal area of the car's chassis. Use the same gauge wire as recommended for the amplifier's power connection to the battery. Adding an additional ground wire between the car battery's negative post and the car chassis of this same gauge (or larger) is also recommended.

If you ever need to remove the amp from the vehicle after it has been installed, the ground wire should be the last wire disconnected from the amplifier, just the opposite of when vou installed it.

A fuse must be installed within 18 inches of the battery to protect the power wire feeding your amplifier. This fuse should be of at least the same value used in the amplifier but no higher than the capacity of the power wire. See the charts below for wire size and fusing recommendations.

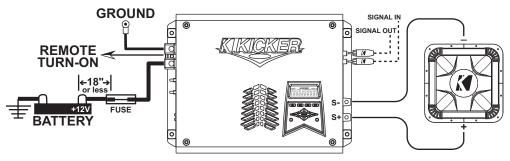
Model	Fuse Size	Wire Size
SX650.1	60A	4 GA
SX1250.1	150A	2 GA

Wire Size	Length	Maximum Fuse
8 Ga	Less than	70 Amps
4Ga	10 feet in length	175 Amps
2 Ga		250 Amps
0Ga	lengen	400 Amps
8 Ga	10 feet to	40 Amps
4 Ga	20 feet in	90 Amps
2 Ga		150 Amps
0 Ga		200 Amps



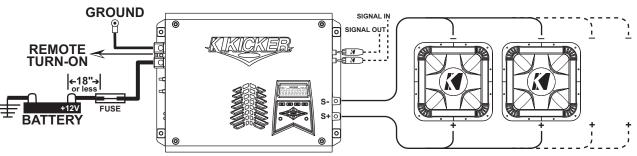
SINGLE SPEAKER OR VOICE COIL

SX.1 series amplifiers are capable of operating into a minimum impedance of 2 ohms (SX650.1) or 1 ohm (SX1250.1).



MULTIPLE SPEAKERS OR VOICE COILS PARALLEL WIRED

SX.1 series amplifiers are capable of powering multiple speakers or voice coils wired in parallel as long as the minimum impedance does not drop below 2 ohms (SX650.1) or 1 ohm (SX1250.1).

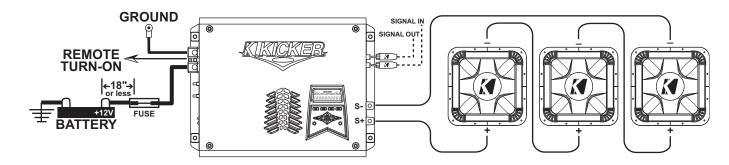


5X.) Serves Ameliere

System Diagrams

MULTIPLE SPEAKERS OR VOICE COILS SERIES WIRED

SX.1 series amplifiers are capable of powering multiple speakers or voice coils wired in series as long as the minimum impedance does not drop below 2 ohms (SX650.1) or 1 ohm (SX1250.1).



These are just a few of the many ways you can use your SX.1 series Kicker amplifier. These system diagrams are designed to give you a basic understanding of the most common uses for this amplifier. For more complex systems please visit your local authorized Kicker dealer. You can also download the SX Technical Manual from our website at www.kicker.com for more detailed information and complex system diagrams.

AMPLIFIER STRAPPING

SX.1 series amplifiers are capable of being strapped together to provide twice the power into twice their rated minimum impedance. Only like model amps can be strapped together. In other words, the SX650.1 can only be strapped to another SX650.1 and the SX1250.1 can only be strapped to another SX1250.1.

NOTE...

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4 ohm minimum impedance for SX650.1 when strapped.

2 ohm minimum impedance for SX1250.1 when strapped

1.) Wire both amplifiers to 12 volt power, ground and remote.

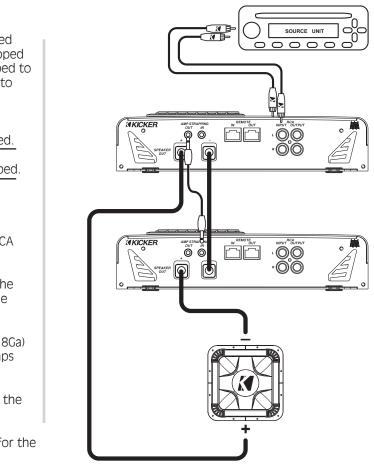
2.) Connect a RCA cable from the source unit to the RCA Input jacks on the primary amp.

3.) Use the supplied 1/8 inch mono cable to connect the Amp Strapping Out jack of the primary amplifier to the Amp Strapping In jack of the secondary amplifier.

4.) Use a short piece of heavy gauge wire (12Ga, 10Ga, 8Ga) to connect the Speaker negative terminals of both amps together.

5.) The primary amplifier's positive terminal is used for the positive speaker connections.

6.) The secondary amplifier's positive terminal is used for the negative speaker connections.



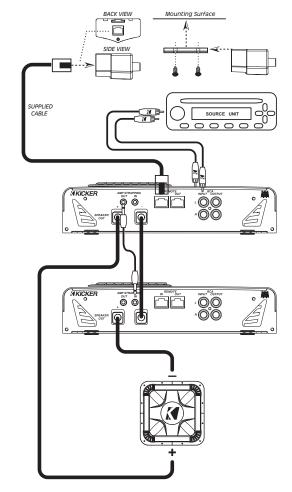
AMPLIFIER STRAPPING WITH REMOTE BASS CONTROL

The Remote Bass Level Controller can be used to adjust the output level of both the amplifiers that are strapped together.

1.) Mount the Remote Bass Level Controller in the front of your vehicle and plug in the supplied cable.

2.) Route the supplied cable to the primary amplifier and connect to its BLAST In jack.

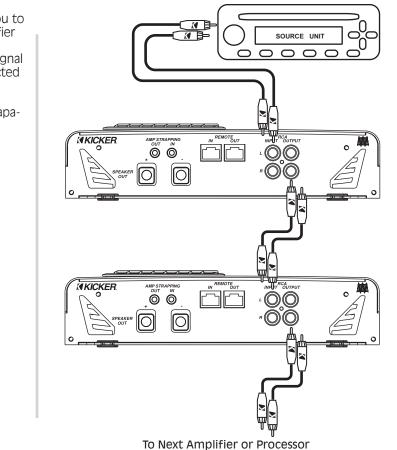
3.) Enjoy!



USING THE SIGNAL OUTPUT JACKS (PAST)

The Output (**P**re **A**mp **S**ignal **T**ransfer) RCA jacks allow you to send the incoming signal from one Kicker SX series amplifier to another amplifier or processor without the need for Y cables. The signal from the **PAST** jacks is identical to the signal fed to the amplifier via its RCA input jacks and is not affected by any of the amplifier's built-in digital signal processing.

Most head units with high voltage outputs should be capable of driving up to ten amplifiers in a chain.



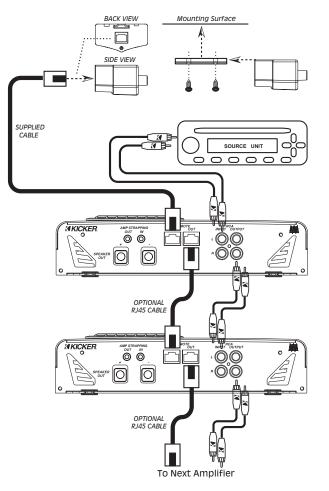
USING THE REMOTE BASS LEVEL CONTROL & BLAST

You can use the Remote Bass Level Control to control the output of your amplifier from the front of the car.

Mount the controller by simply screwing the metal bracket to the chosen location and then slide the housing onto the bracket until it snaps into place.

Route the cable from the controller to the BLAST input jack on the amplifier chassis. That's it.

If you wish to control more than one amplifier with your remote, you will simply need to use a RJ45 cable (not supplied but available at any Radio Shack, computer store or electronics center) to connect the BLAST output jack of the first amp to the BLAST input jack of the next amplifier.

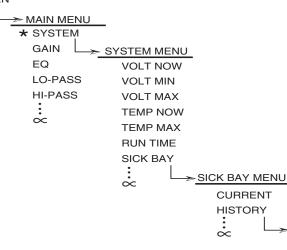


Navigation

Your KICKER SX series amplifier uses the latest in Digital E control and provides you with valuable operational informa tion about your amplifier, real-time diagnostics and a full multi-level menu-driven operating system to access and adjust your amplifier.

The menu system is designed in layers. There is a starting point and you keep drilling down until you get to the men item you want to view or change. This menu tree is an example of how the SX menu structure is set up.

NOTE: Not all the menus and menu items are shown be DEFAULT SCREEN



14

DSP	As you can see there can be an infinite number of menu levels and each one of these menu levels can have an infinite number of its own items.
ia-	Navigating this simple menu structure is very easy using the 5-way keypad.
ig าน	You use the up and DDWN keys to scroll through the available menu items, and the ENT key is used to select that menu item. The ESC key backs you up one menu level from where you are, and the HDME key can return you all the way to MAIN MENU by pressing and holding it for 1.5 seconds.
elow.	For example let's begin at the DEFAULT SCREEN; our goal is to get to the HISTORY menu. Pressing the ENT key would get us to MAIN MENU. Now use the UP and DOWN keys to scroll to SYSTEM, and then press the ENT key. Now you are in the SYSTEM MENU. Using the UP and DOWN keys again you scroll to SICK BAY and press the ENT key. You are now in the SICK BAY MENU. Use the UP and DOWN keys again to scroll to HISTORY and then press the ENT key. That's it! You are there.
<u>,</u>	This is how you view information and change settings in your KICKER SX amplifier.

SX .) Series Amplifiers

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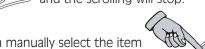
RELEASE

HOME HOME

ESC

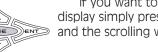
If you want to freeze the scrollin display simply press the **HOME** key and the scrolling will stop.

Now you can manually select the item you wish to have displayed by using the UP or DOWN kevs.



CESC HOME

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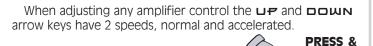


all the way back to the MENU ITEM you started with in the MAIN MENU, no matter how deep in the menu level structure vou are. Pretty cool!

HOME

This is a very quick way to return to the MAIN MENU after drilling down several menu layers to view or change an item.

Pressing and releasing the key repeatedly will scroll through the menu items at normal speed.





the SICK BAY MENU. If we press the

ESC key we would go back up to the

SICK BAY MENU. If we press the ESC

key again we would go to the SYSTEM

MENU. One more press of the ESC

key and we are in the MAIN MENU.

Let's start at the HISTORY item in the SICK BAY MENU again but instead press and hold the HOME key for 1.5 seconds. Doing this will take us all the way back to the MAIN **PRESS &** MENU in one key press. Pressing and HOLD holding the HOME key will return you

Continuing our example, we are now in the HISTORY item in Pressing the key and holding it in for longer than 1.5 seconds will activate the accelerated scrolling mode and scroll through the menu items at a much faster rate. Releasing the key will return it to normal speed mode.



Don't try to scroll through every 1/12 octave step without

The menu system layout is as follows:

DEFAULT - This menu is displayed when your amp is operating and no adjustments are being made to your am fier. This information scrolls through the display one after other and then repeats.

1.) K = E K E R - Hey, we needed a brand plug for us since the amp is *sooooo* cool!

2.) $XX \times MOLTS$ - Displays the current voltage at the amplifier's + 12 volt battery input terminal.

3.) XX X $\square E \subseteq F$ or XX X $\square E \subseteq G$ - Displays the current temperature of the amplifier in celsius or fahrenheit.

4.) BMP DBME - Model name of the amplifier or the nam vou have changed it to.

5.) MEMDRY COME - Current memory preset in use (if any) or the name you have changed it to.

	If you want the display to continue scrolling simply press the HOME key again.
npli- the	MAIN - This menu is the first menu accessed from the DEFAULT menu and is the gateway to all the settings and information on your SX series amplifier.
:his	To enter the MAIN menu simply press the ENT key while in the DEFAULT menu.
	The available selections in the MAIN menu are:
ne	SYSTEM GRIT EQ LD-PRSS HI-PRSS PHRSE MUTE KOMPRESSOR SEEURITY
ng :y	Use the LF and DOWN arrow keys to scroll through the available selections
RENT	When you have the menu item selected that you want to view or adjust simply press the ENT key to select it.

5457EM MENU - This menu item contains many diagnostic tools and first time setup options. Use the up and DOWN arrow keys to scroll through the options and press **ENT** to select. Press the ESC key to return to the SYSTEM menu.

1.) VEL 7 DEW - Displays the current voltage at the amplifiers +12 volt terminal.

2.) VOLT MIT - Displays the lowest voltage seen at the amplifiers +12 volt terminal since being installed

3.) $\nabla \mathbb{D} \mathbb{L}^{T} \longrightarrow \mathbb{H}^{\times}$ - Displays the highest voltage at the amplifiers +12 volt terminal since being installed.

4.) *TEMP Devine* **Displays** the current temperature of the amplifier.

5.) *TEMP MPX* - Displays the highest temperature the amplifier has reached since being installed.

6.) RUD TIME - Displays the total time the amplifier has been powered up since installation in 1/10th of an hour increments

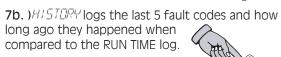
7.) 516K 1994 - Contains several diagnostic tools. Once in this menu vou use the up and oown keys to 🗹 scroll through EURREAT, HISTORY and PIAK ADISE options. Press the ENT key to select.



7a.) EURREAT shows amplifiers current status or fault code. The 6 possible codes are:

DORMAL - No problem, normal operation. THERMAL - Thermal cutoff protection engaged. SHORT - Short circuit protection engaged. HI = VOL I - High voltage protection engaged. FUSE - Faulty or blown power fuse. SERVICE - Amp requires service by KICKER.

When you are done viewing the current status press the ESC key to return to the SICK BAY menu.



Use the **up** and **DOWN** keys to select the HISTORY log entry you want to view.

Press and hold the **ENT** key to view the time it happened.

When you are done viewing the history press the **ESC** key.

SICK BAY - cont

7c.) *PLOK DQ15E* is a built in pink noise generator to test operation of the amplifier

Use the **up** and **DOWN** kevs to select $\Pi \square I SE \square \square$ or nni se nee



When the PINK NOISE is ON the LEFT and RIGHT indicators in the ISIS VED will blink on and off.



When you are done using the PINK NOISE generator press the ESC key to return to the SICK BAY menu.



NOTE

If you exit the SICK BAY menu with the PINK NOISE generator still on, the LEFT and RIGHT ISING VFD indicators will remain blinking as a reminder.



CESC HOME

HOME



8.) AMP ARME - Here you can assign a unique name to your KICKER SX amplifier. This name will replace the model name in the DEFAULT screen. If you change your mind and do not want to change the name, press and hold the **HOME** key for 1.5 seconds BEFORE making any changes.

The **ESC** and **ENT** keys move the cursor left or right to select which character to change.

Use the up and pown keys to change the character displayed TR R E I 2 3 ETC.

When you are finished press and hold the **HOME** key for 1.5 seconds to save your new amplifier name.





9.) *MEM TRME* - Here you can change the names of the memory locations. The factory defaults are

MEMDRY-- 1 MEMDRY-- 2 MEMDRY-- 3 MEMDRY-- 4



Use the **up** and **DOWN** keys to select the memory location name you want to change and then press the **ENT** key to select it.If you change your mind and do not want to change the name, press and hold the **HOME** key for 1.5 seconds BEFORE making any changes.



The ESC and ENT keys move the cursor left or right to select which character to change.



Use the **ur** and **Down** keys to change the character displayed (R. B. E. I. 2. 3 ETC)



When you are finished press and hold the **HOME** key for 1.5 seconds to save your new memory name.

Repeat the above steps to rename the other presets.

10.) *REMOTE BIR* - This feature is currently not used but is reserved for future expansion.

11.) 5AID RADSE - Sets the input voltage window of the UltraMatch gain control. Possible choices are:
IV. 2V. 4V. BV. ISV
Select the one closest to the maximum RCA input voltage vou expect to send to the amplifier.

Use the **up** and **DOWN** keys to select your voltage. Press the **ESC** to return to the MAIN menu.

12.) Bypasses all DSP processing and sends the input signal directly to the amplifier.

Use the **UP** and **DOWN** keys to select <u>BYPR55</u> Off or <u>BYPR55</u> OFF. Press the **ESC** key to return to the MAIN menu.

13.) KOMP ADJ - This adjusts the KOMPRESSOR activation threshold. Range is +24 dB to -24 dB to allow for different sized speakers or listener tastes. 0 is the default factory setting.



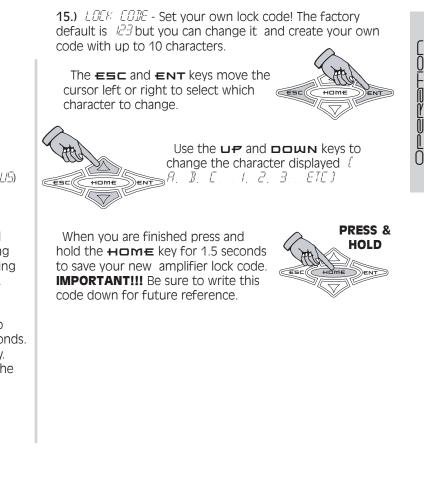
Use the **uP** and **DOWN** keys to select your setting and then press the **ESC** to return to the MAIN menu. **14.)** $\mathbb{I}I SPLRY$ - Several options to allow customizing the amplifier's VFD display.

14a.) IRIGHTNESS - Adjust the intensity level of the ISIS VFD display. Five selectable levels. MITIMUM - dimmest setting. LOW MEDIUM HIGH MRXIMUM - brightest setting.

14b.) *TEMP EVE* - Selects between Celsius (*EEL51U5*) or Fahrenheit (*FAHREAHE1T*) for temperature readouts.

14c.) Here $I \in I \subseteq I \subseteq I \subseteq I \subseteq I \subseteq I$ Adjusts the speed of the scroll in the Default Screen display. Determines how long each menu item stays in the display before scrolling to the next item. Adjustable from 1 - 11 seconds.

14d.) 5ERDSRVER - Option to turn on or off the screensaver. When on (RUTD) the display will go to sleep when there is no button activity for 60 seconds. Pressing any button once will wake up the display. The DFF selection turns off the screensaver and the display is always on.



16.) *RESET BMP* - This option resets all adjustable settings back to their original factory defaults.

Use the up and pown keys to select SKIP RESET or TO RESET and then press the **ENT** key to perform the selected action.



17.) BBOUT - This menu item will display information about the DAP (Digital Audio Processor) hardware, software and build date.



Use the up and Down keys to view the DSP Version. Software Version Hardware Version and Build Date. Press the **ESC** key to return to the MAIN menu.

BRIMMENU - Here is where you adjust your amplifier's gain control settings.

Press the ENT key to enter the GAIN adiustment menu.

Now use the **up** and **DDWN** keys to increase or decrease the gain of the amplifier in .5 dB increments from 0 dB to +12 dB. (\Box to \Box \Box) CESC (

Press the **ESC** key to return to the MAIN menu when finished adjusting the gain control.

NOTE...

While adjusting the GAIN you will notice the 5RIII indicator on the ISIS VFD display is lit. This indicates you are in the GAIN menu.



HOME

EG **MENU** - Here you can adjust the single band parametric equalizer. Your options are FREQUENCY, BANDWI DTH and RÓDST/EUT.

Press the **ENT** key to enter the EQ adjustment menu.

Use the up and **DOWN** keys to scroll through FREQUENCY, BRAINT DIA and BOOST/CUT and press the **ENT** key to select.

FREQUEREY selects the center frequency of the EQ and can be set at any 1 Hz spaced frequency from 20 HZ - 200 HZ.

Use the up and pown keys to select your frequency. Press the **ESC** to return to the EQ menu.

 \mathbb{BDDWDT} (better known as Q) can be set from 5 to \mathbb{D} in .5 increments. In simple terms, lower Q effects more frequencies around the center frequency while higher Q effects fewer frequencies around the center frequency.

Use the up and **DOWN** keys to select your Q value. Press the ESC to return to the EQ menu.



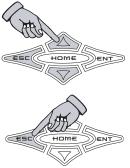
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BODSTACUT is how much you want to boost or cut the equalizer and has a range of -B B to +B B in .5 dB steps.



Use the up and **DOWN** keys to boost or cut the EQ and then press the **ESC** key to return to the EQ menu.

When you are done adjusting the EQ press the **ESC** key while in the EQ FREQUENCY, BRIDDWIDTH and **BOOST/EUT** option menu to return to the MAIN menu.



NOTE...

While adjusting the EQ you will notice the EG indicator on the ISIS VFD display is lit. This indicates you are in the EQ menu.





LO-PR55 MENU - Here is where you adjust the low pass crossover. Your options are FREQUENCY and SLOPE.

HOME

Press the **ENT** key to enter the LO-PASS adjustment menu.

Use the up and Down keys to scroll through FREQUENCY and SLOPE and press the \mathbf{ENT} key to select.

FREQUERCY selects the crossover point and can be set at any 1 Hz spaced frequency from $\frac{30}{H2}$ to $\frac{200}{H2}$.

Use the up and **DOWN** keys to select your frequency. Press the ESC to return to the IO-PASS menu.

 $G \square \square \square \square \square \square \square$ selects the rolloff of the crossover and can be set. from $\square \square \square$ to $\square \square$ in 6 dB steps.

Use the **up** and **DOWN** keys to select your slope. Press the **ESC** to return to the LO-PASS menu.

NOTE ...

While adjusting the low pass crossover you will notice the L^{PP} indicator on the \square VFD display is lit. This indicates vou are in the LO-PASS crossover menu.

The KICKER SX amplifier monitors and prevents any low pass crossover point from being any closer than 1/3 octave from the high pass crossover point. If you cannot set the low pass crossover where you want then check the H^{DC}_{I} indicator and see if it is flashing. If it is then you need to go to the HI-PASS menu and raise the high pass crossover point.

This is done as a safety precaution to prevent a notch filter condition.

HI-PRSS MENU - Here is where you adjust the high pass crossover. Your options are FREQUERCY and SLOPE

Press the $\in NT$ key to enter the LO-PASS adjustment menu.

Use the up and **DOWN** keys to

scroll through FREQUEREY and SLOPE

and press the **ENT** key to select.



ERECHEDEV selects the crossover point and can be set at any 1 Hz spaced frequency from II HZ to II Hz

Use the up and pown keys to select your frequency. Press the **ESC** key to return to the HI-PASS menu



SLOPE selects the rolloff of the crossover and can be set from $\square \subseteq \square$ to $\square \square$ in 6 dB steps.

Use the **up** and **DOWN** keys to select your slope. Press the ESC to return to the HI-PASS menu



NOTE...

While adjusting the high pass crossover you will notice the $H^{\Box \Gamma}$ indicator on the \square VFD display is lit. This indicates you are in the HI-PASS crossover menu.

The KICKER SX amplifier monitors and prevents any high pass crossover point from being any closer than 1/3 octave from the low pass crossover point. If you cannot set the high pass crossover where you want then check the L^{DC} indicator and see if it is flashing. If it is then you need to go to the LO-PASS menu and lower the low pass crossover point.

This is done as a safety precaution to prevent a notch filter condition.







PHRSE MENU - Here you can switch the polarity of the amplifier's output between 0 or 180 degrees. Your options are O DEGREE and 180 DEGREE

Press the **ENT** key to enter the PHASE adjustment menu.



HOME

ESC

Use the up and pown keys to scroll through *D* **IE***GREE* and 180 IEGREE and press the ENT key to select

Press the **ESC** key to make vour selection and return to the MAIN menu.

NOTE ...

While adjusting the PHASE you will notice the PHASE indicator on the ISIS VFD display is lit. This indicates you are in the PHASE menu.

7.) MUTE - Here you can mute the amplifier's output for setup or testing purposes. Your options are MUTE UT and MUTÉ OFF.

HOME

HOME

Press the $\in \mathbf{NT}$ key to enter the MUTE adjustment menu.

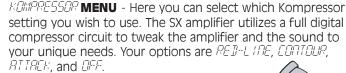
Use the up and **DOWN** keys to scroll through $MUTE \Box \Box$ and MITE DEE

Press the **ESC** key to make your selection and return to the MAIN menu.

NOTE...

While adjusting the MUTE you will notice the MUTE indicator on the SIS VFD display is lit. This indicates you are in the MUTE menu.

If you exit the MUTE menu with the muting activated, the $M \square E$ indicator will flash to indicate this



Press the **ENT** key to enter the KOMPRESSOR adjustment menu.

Once in this menu use the $\mathbf{u}\mathbf{r}$ and **DOWN** keys to scroll through REI-LINE, CONTOUR, RITREK and OFF. ESC HOME SENT

Press the **ESC** key to accept your selection and return to the MAIN menu.



NOTE...

While adjusting the Kompressor you will notice the K_{μ}^{DMD} indicator on the ISIS VFD display is lit. This indicates you are in the KOMPRESSOR menu.

See the specifications pages for a brief description of each Kompressor setting and some general guidelines for their use.









SECURITY MENU - Here you can lock down your amplifier to prevent any access to the settings. The DEFAULT screen is still active and you can select any of the four presets... but that is

HOME

Press the **ENT** key to enter the SECURITY menu.

Use the **ur** and **DOWN** keys to select LOEK IT UP or DOD'T LOEK and then press the **ENT** key to accept your setting.

If you selected $LOEK \rightarrow I$ UP the display will now show U = U = U = K and the **LOCK** indicator will be on . The menus are now locked. Press the \mathbf{ESC} key to return to the DEFAULT scrolling screen.



If you selected ICAT LOCK then you will return to the MAIN menu and the amplifier will remain unlocked.

NOTE ...

While your amplifier is in lock down you will notice the LDEKindicator on the ISIS VFD display is lit. This indicates your amplifier is locked down and will require a code to unlock it before any adjustments can be made.

UNLOCK AMPLIFIER

You do remember your lock code right? You better because that is now the only way in! If you have not changed it then it is still at the factory default of $\mathbb{Z}\mathcal{Z}$.

To unlock your amplifier press the **ENT** key. The display will show You will now enter your code to unlock the amplifier.



HOME

The ESC and ENT keys move the blinking cursor left or right to select which character to enter.

Use the **up** and **DOWN** keys to enter the character. (R. B. E., I. Z. B., etc)



HOME

If the code is correct the amp will unlock and drop you back into the MAIN menu. If not, then read on...

UNLOCK AMPLIFIER - cont.

If you enter the wrong code the display will flash the message **IRI** CONE and then return you to URLOCK screen.



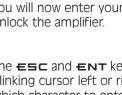
Press the **ENT** key to enter your lock vour code again.



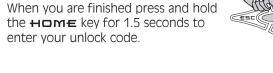
Enter your code again making sure to place the correct character in the correct position in the display. Blank spaces count as part of the code so be sure you are entering it correctly.

Press and hold the **HOME** key and try again. If you have found your error then the amp will unlock. If not, the flashing **BRD** CODE will greet you and you can try again.

If you have tried several times (several is defined as more than 3...less than 10) and you still can not unlock your amplifier, this more than likely means means you have forgotten your lock code.



enter vour unlock code.



You will need to call KICKER directly at (405) 624-8583 to handle this situation. You will need your amplifier's serial number AND your receipt as the guys and gals answering the phone will need this information from you to help you out.

So...before you call, gather this information up and have it ready to save us some time on the phone. Cool? Cool!

Better yet, take the time **RIGHT NOW** to fill out the first page in this manual and STAPLE your receipt to it. That way if or when you need service (like forgetting your lock code) you will have all the information you need right there in front of you.



Memory Presets

There are four memory preset keys each with an indicator above it in the SVFD display. The indicator will

LOCK

AKICKER AMPZ

MEM-Z MEM-3 MEM-4

INDICATORS------

HOME)ENT

illuminate if that memory preset is currently in use.

Each preset stores all the values for each of the following amplifier controls:

- *.) 58/8
- *.) ED
- *) 10-0955
- *) 00000 *) 000000
- *.) MUTE

*.) KAMPRESAR

This gives you the ability to dial in four

completely different amplifier settings and store them in presets for instant recall later.

It's like a preset for your favorite radio stations...only better!

ESC

STORING A PRESET

Make all the adjustments you want to have stored in the preset and return to the DEFAULT screen.

To store your settings into a preset simply press and hold the desired memory key until the VFD display flashes STORED. Then release the memory key. The indicator which matches the preset you used will illuminate.

RECALLING A PRESET

To recall a memory preset simply press and release the key. The matching indicator will light up and the amplifier will change all the corresponding controls to the values assigned to the memory preset.







PRESET PRESETS

Ok, we know that sounds like a certain pizza commercial, but seriously the four memory presets come with settings already in them.

You can use these as a starting point to do your own tweaking or for quick push-a-button-and-be-done setup.

Any preset you store will replace the ones that come from the factory. You can reset all four preset back to factory defaults anytime simply by doing a reset in the RESET AMP menu.

Here are the settings in each preset from the factory.

	MEMORY-1	MEMORY-2	MEMORY-3	MEMORY-4
GAIN LEVEL	6 DB	6 DB	6 DB	6 DB
EQ FREQUENCY	40 HZ	40 HZ	40 HZ	40 HZ
EQ BOOST/CUT	FLAT	+ 6 DB	+ 6 DB	+ 6 DB
EQ BANDWIDTH	3	3	3	3
LO-PASS SLOPE	24 dB	24 DB	24 DB	24 DB
LO-PASS FREQ	80 HZ	80 HZ	80 HZ	80 HZ
HI-PASS SLOPE	24 DB	24 DB	24 DB	24 DB
HI-PASS FREQ	25 HZ	25 HZ	25 HZ	25 HZ
PHASE L&R CH.	0 DEGREE	0 DEGREE	O DEGREE	O DEGREE
MUTE L&R CH.	OFF	OFF	OFF	OFF
KOMPRESSOR	OFF	OFF	CONTOUR	RED-LINE
KOMP ADJ.	0 DB	0 DB	0 DB	0 DB

30

In more general terms, each preset offers you these options.

- **Memory-1** sets the amplifier up with a 24 dB per octave low-pass crossover at 80 Hz and an infrasonic filter (often called subsonic filter) to protect the speakers from harmful ultra-low frequencies.
- Memory-2 sets the amplifier up with a 24 dB per octave low-pass crossover at 80 Hz, an infrasonic filter (often called subsonic filter) to protect the speakers from harmful ultra-low frequencies and a 6 dB bass boost at 40 Hz.

Memory-3 sets the amplifier up with a 24 dB per octave low-pass crossover at 80 Hz, an infrasonic filter (often called subsonic filter) to protect the speakers from harmful ultra-low frequencies, a 6 dB bass boost at 40 Hz and sets the Kompressor into CONTOUR mode.

Memory-4 sets the amplifier up with a 24 dB per octave low-pass crossover at 80 Hz, an infrasonic filter (often called subsonic filter) to protect the speakers from harmful ultra-low frequencies, a 6 dB bass boost at 40 Hz and sets the Kompressor into RED-LINE mode.

As stated before you can always start with one of these presets, tweak it to fit your installation and then save your settings into a new preset.

TROUBLESHOOTING

If your amplifier does not appear to be working, check obvious things first such as blown fuses, poor or incorrect wiring connections, crossovers set improperly, gain controls improperly set, etc.

There are two LEDs on the end panel of your KICKER SX series amplifier, one green and one red. The green LED indicates the amplifier is turned on. The red LED indicates that there is a fault condition with the end panel fuses and they need checked.

The power indicator on top of the amplifier which illuminates the model badge follows the same function as the green LED.

OGreen LED off, no output:

 $\hat{\mathcal{O}}$ With a Volt Ohm Meter (VOM) check: \hat{r} + 12 volt power terminal (should read +12V to +16V). $\hat{\mathcal{C}}$ Remote turn-on terminal (should read +12V to +16V). $\hat{\mathcal{C}}$ Ground terminal to chassis ground (should read 0).

OGreen LED on, no output:

position.

☆Check amp status in SICK BAY. ☆Check GAIN RANGE in SYSTEM menu. ☆Check if MUTE is activated ☆Test amp using PINK NOISE in SICK BAY menu. ☑ If amp makes noise using PINK NOISE then: $\hat{\mathcal{C}}$ Check RCA cable and connections. $\hat{\mathcal{C}}$ Check for signal on RCA cable with VOM in AC ☆Substitute known good source unit.

☐ If amp does not make noise using PINK NOISE then:

 $\hat{\mathcal{C}}$ Check speaker connections.

☆Test speaker outputs with known good speaker.

O0ther Symptoms:

Amp is very hot, no output.

☆Thermal protection is engaged. Check SICK BAY to verify. Check for proper impedance at speaker terminals. Also check for adequate airflow around amplifier.

Amp shuts down while vehicle is running.

↔ Over Voltage protection engaged. Check SICK BAY to verify. Voltage to the amplifier is not within the 9-16 volt operating range. Have automobile charging/electrical system inspected.

Amp only plays at low volume levels.

☆Short circuit protection engaged. Check SICK BAY to verify. Check for speaker wires shorted to each other or the vehicle chassis. Damaged speakers or operating amplifier below minimum recommended impedance will also cause this.

Weak bass output.

 $\hat{\mathcal{C}}$ Change the phase of the LEFT channel in the PHASE menu. If bass improves then one speaker channel is out of phase (polarity). You can leave PHASE changed for this channel to fix the problem or better vet: Check speaker connections to amp and speakers to determine which one is wrong and correct. Be sure to set the PHASE of the LEFT channel back to original setting after correcting wiring connections.

- OAlternator noise (whining sound that varies with engine RPM):
- ☆Check for damaged RCA cables. $\hat{\mathcal{C}}$ Check routing of RCA cable. $\hat{\mathcal{C}}$ Check source unit for good ground. ☆Check GAIN RANGE in SYSTEM menu, turn down if set too hiah.

⇔ Check GAIN in MAIN MENU, turn down if set too high.

CAUTION: When jump-starting the vehicle, be sure that connections made with jumper cables are correct. Improper connections (+ to - & - to +) will result in blown amplifier fuses as well as failure to other systems in the vehicle.

If you have more questions about the installation and operation of your new KICKER amplifier, see the Authorized KICKER Dealer in your area. You may also call our Technical Services Line at (405)624-8583 for assistance or visit our website at www.KICKER.com

5X.) Serves Ameli Lerer

Kompressor

Here is a brief explanation of each KOMPRESSOR setting.

ECATOUR - This preset applies expansion below the threshold point to provide a fuller sound at lower volume levels. Effect decreases at higher volume levels. Nice effect for someone wanting a fuller sound at low to moderate listening levels.

RETREK - This preset applies expansion above the threshold point to provide a nice quick punch or attack to the music. Effect increase with higher volume levels. Like music with a quick and punchy sound? Give this one a try.

REI-LINE - Provides a quick clamp to dynamic peaks while still allowing a full sound to come through. Effect increases at higher volume levels. Like to play it loud but want to protect your speakers? Want low level details to come through over road noise? Want a more even volume level to your music? All can be achieved with this preset.

U^C^C - Pretty much says it all. This turns the **KOMPRESSOR** off. This is the factory default setting.

After selecting your KOMPRESSOR setting you can adjust its effect using the KOMPRESSOR ADJUSTMENT (KOMP RID) setting located in the SYSTEM menu. There you can change the threshold point for each of these settings to customize the KOMPRESSOR effect to fit your speakers, car or personal tastes

The possibilities are almost endless! Tweak away!

Perfor		
	Model	SX650
RMS Power In Watts, All Channels Driven		

፬ 13.8V, 4Ω Mono, 1.5% THD	325 X
፬ 13.8V, 2Ω Mono, 1.5% THD	650 x
፬ 13.8V, 1Ω Mono, 1.5% THD	na

Dynamic Power

In Watts, All Channels Driven

@	14.4V, 4Ω Mono, 1.5% THE)
@	14.4V, 2Ω Mono, 1.5% THE)
@	14.4V, 1Ω Mono, 1.5% THE)

Recommended Power & Ground Wire

Length With EndKaps

Fusing

4 GA

2	
SX650.1	SX1250.1
325 x 1 650 x 1 na	na 625 x 1 1250 x 1
325 x 1 650 x 1 na	na 625 x 1 1250 x 1
16" (40.64cm)	22.50" (57.15cm)
30A x 2	150A x 1 external
4 GA	2 GA



Height: Width: Length Without EndKaps: Frequency Response: Input Sensitivity: Signal-to-Noise Ratio: High Pass Crossover Freq.: High Pass Crossover Slope: Low Pass Crossover Freq.: 30 Hz - 200 Hz in 1 Hz steps Low Pass Crossover Slope: **KickEO Frequency:** KickEQ Bandwidth (Q): **KickEO Boost/Cut: Remote Bass Level Control:** Included with each amplifier **Power & Ground Terminals:** Will accept up to 2 Gauge wire DSP Reaction Time / Delay: 0.7 milliseconds (In other Words...Real Fast!) Friend's Reaction: Stranger's Reaction:

2.5 inches / 6.35 centimeters 10 inches / 25.4 centimeters Subtract 5 inches (12.7 cm) from chart above 20 Hz - 200 Hz. +0 / -1 dB 62.5 mV - 16 V >98 dB 10 Hz - 60 Hz in 1 Hz steps 0 (off) - 24 dB in 6 dB steps 0 (off) - 48 dB in 6 dB steps 20 Hz - 200 Hz in 1 Hz steps .5 to 10 in .5 steps +/- 18 dB per Octave That Shizzle's Off The Hizzle Dude...Sweet...

ELECTRONICS LIMITED WARRANTY

Kicker warrants this product to be free from defects in material and workman ship under normal use for a period of **90 DAYS** from date of original purchase with receipt. When purchased from an Authorized KICKER Dealer it is warranted for **TWO** (2) **YEARS** from date of original purchase with receipt. If the product is labeled "B Stock" it is warranted for 90 DAYS from date of original burchase with receipt. If labeled "B Stock" and purchased from an Authorized KICKER Dealer, it is warranted for ONE (1) YEAR from date of purchase with receipt. In all cases you must have the original receipt! Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction during the warranty period. Kicker will replace or repair (at its discretion) the defective merchandise with equivalent merchandise at no charge. Warranty replacements on "B-Stock" merchandise may have cosmetic scratches and blemishes. Discontinued products may be replaced with more current equivalent products

This warranty is valid only for the **original purchaser** and is not extended to owners of the product subsequent to the original purchaser. Any applicable implied warranties are limited in duration to a period of the express warranty as provided herein beginning with the date of the original purchase at retail, and no warranties, whether express or implied, shall apply to this product thereafter. Some states do not allow limitations on implied warranties, therefore these exclusions may not apply to you.

This warranty gives you specific legal rights; however you may have other rights that vary from state to state.

WHAT TO DO IF YOU NEED WARRANTY OR SERVICE

Defective merchandise must be returned to your local Authorized Stillwater Designs (Kicker) Dealer for warranty. Assistance in locating an Authorized Dealer can be obtained by writing or calling Stillwater Designs direct. You can confirm that a dealer is authorized by asking to see a current authorized dealer window decal.

If it becomes necessary for you to return defective merchandise, call the Kicker Customer Service Department at (405)624-8510 for a Return Authorization (RMA) number. Package all defective items in the original container or in a package that will prevent shipping damage, and return to

Stillwater Designs, 5021 North Perkins Road, Stillwater, OK 74075

The RMA number must be clearly marked on the outside of the package. Return only defective components. Return of entire cabinets, system packs. pairs, etc. increases your return freight charges. Non-defective items received will be returned freight collect.

Include a dated **proof-of-purchase** stating the Customer name. Dealer name, product purchased and date of purchase. Warranty expiration on items without proof-of-purchase will be determined from type of sale and the manufacturing date code. Freight must be prepaid: items received freight collect will be refused.

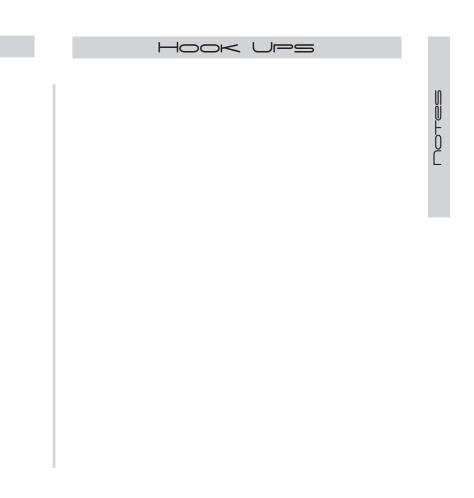
Failure to follow these steps may void your warranty. Any questions can be directed to the Kicker Customer Service Department at (405)624-8510.





Pizza Delivery

Chic's Numbers



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