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KICKER®
MULTICHANNELAMPLIFIER
with a CLASS-D SUBWOOFERCHANNEL

ZX550.3, ZX700.5



MultiChannel Models: ZX550.3 / ZX700.5

Congratulations on your KICKER purchase!

Please record your purchase information and keep your sales receipt for validation of warranty.

Authorized Kicker Dealer: _____
Purchase Date: _____
Amplifier Model Number: _____
Amplifier Serial Number: _____

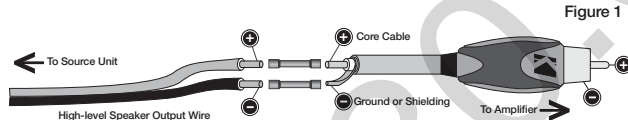
Installation

1. Mounting Choose a structurally sound location to mount your Kicker amplifier. Make sure there are no items behind the area where the screws will be driven. Choose a location that allows at least 4" (10cm) of open ventilation for the amplifier. If possible, mount the amplifier in the climate-controlled passenger compartment. Drill four holes using a 7/64" (3mm) bit and use the supplied #8 screws to mount the amplifier.

2. Wiring Disconnect the vehicle's battery to avoid an electrical short. Then, connect the ground wire to the amplifier. Make the ground wire short, 24" (60cm) or less, and connect it to a paint and corrosion free solid metal area of the vehicle's chassis. Adding an additional ground wire of this same gauge (or larger) between the battery's negative post and the vehicle chassis is recommended.

The ZX amplifier has dual input sensitivity differential RCA inputs which will receive either high or low level signals from your car stereo's source unit. Ideally, when connecting the source unit to the amplifier, the ZX amplifier's input level switch should be set to "LO" and a low-level signal should run from the source unit's stereo RCA output to the stereo RCA input on the end panel of the amplifier using RCA interconnect cable. If a low-level stereo RCA output is not available on the source unit, the signal can be delivered to the amplifier using the high-level speaker outputs on the source unit. Set the input level switch on the end panel of the amplifier to "HI". Crimp and solder RCA connectors to the end of the speaker wire running from the high-level speaker outputs on the source unit and connect the wire to the RCA Inputs on the end panel of the amplifier as shown in Figure 1.

Keep the audio signal cable away from factory wiring harnesses and other power wiring. If you need to cross this wiring, cross it at a 90 degree angle.



Install a fuse within 18" (45cm) of the battery and in-line with the 8 gauge power cable connected to your amplifier. If you ever need to remove the amplifier from the vehicle after it has been installed, the ground wire should be the last wire disconnected from the amplifier--just the opposite as when you installed it. See the chart below for power and ground wire size, and fusing recommendations.

Model ZX550.3	1 (ONE) 60 AMPERE FUSE	PowerGroundWire 4GA
Model ZX700.5	1 (ONE) 90 AMPERE FUSE	PowerGroundWire 4GA

3. Configuration The following diagrams show the most common configurations for your Kicker ZX series amplifier.

(ZX700.5) Four Channel Operation with Subwoofer ZX700.5 amplifiers are capable of operating into a minimum impedance of 2 ohms per channel in stereo operation and 2 ohms mono in the subwoofer channel. See Figure 2.

(ZX550.3) Two Channel Operation with Subwoofer ZX550.3 amplifiers are capable of operating into a minimum impedance of 2 ohms per channel in stereo operation and 2 ohms mono in the subwoofer channel. See Figure 3.

(ZX700.5) Four Channel Operation with Subwoofer

Figure 3



(ZX550.3) Two Channel Operation with Subwoofer

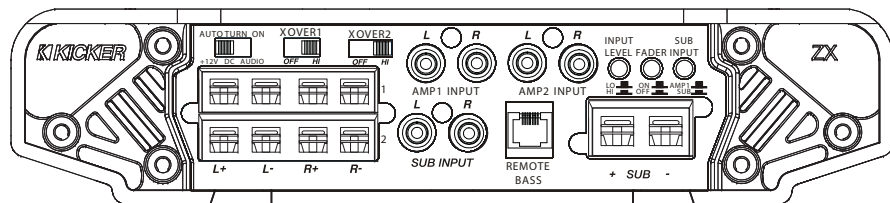
Figure 4



Performance

Model	ZX550.3	ZX700.5
RMS Power in Watts, AMP 1 and AMP2 all channels driven		
@14.4V, 4Ω stereo, ≤ 1% THD+N	70 x 2	70 x 4
@14.4V, 2Ω stereo, ≤ 1% THD+N	85 x 2	85 x 4
@14.4V, 4Ω mono, ≤ 1% THD+N	N/A	165 x 2
RMS Power in Watts, SUBWOOFER channel driven		
@14.4V, 4Ω mono, ≤ 1.5 % THD+N	210 x 1	210 x 1
@14.4V, 4Ω mono, ≤ 1.5 % THD+N	420 x 1	420 x 1
Length: in(cm)	16 3/4 (42.5)	20 (50.7)
Specifications common to all models:		
Height: in(mm)	2 1/8 (54mm)	
Width: in(mm)	9 5/8 (244mm)	
Frequency Response, ± 1 db:	25 Hz - 20 kHz	
Signal-to-Noise Ratio:	>95db, a-weighted, re: rated power	
Input Sensitivity:	Low Level: 125mV-5V High Level: 250mV-10V	
Selectable Electronic Crossover:	Variable HI or OFF (Bypass), 50 - 200Hz, 12dB per octave	
Subsonic Filter:	24 db/Octave Subsonic Filter Fixed @ 25Hz	
Bass Boost:	Variable 0 to +18dB Bass Boost @ 40Hz	

Operation



1. Automatic Turn-On Selection The ZX series offers three different automatic turn-on modes that can be selected on the end panel; +12V, DC Offset, and Audio. Using either the DC Offset or Audio mode causes the REM terminal to have +12V out for turning on additional amplifiers.

Remote Turn-On Set the switch to **+12V** to use the remote turn-on lead from your source unit. Run 18 Ga wire from the Remote Turn-On Lead on your source unit to the terminal labeled REM between the amplifier's positive and negative power terminals. This is the preferred automatic turn-on method.

DC Offset Turn-On If Remote Turn-On is not an option, the next best setting is **DC Offset**. The DC Offset mode detects a 6 volt surge from the HI Level speaker outputs when the source unit has been turned on.

Signal Sense Turn-On The **Audio** setting is the final alternative for Automatic turn-on. This is a Signal Sense turn-on method that detects the incoming audio signal from your source unit and automatically turns on the amp. This turn-on method will not work properly if the input gain control is not set appropriately.

2. Input Level The RCA inputs on Kicker ZX amplifiers are capable of receiving either Hi or Low-level signals from your source unit. If the only output available from your source unit is a Hi-Level signal, simply press in the Input Level switch on the amplifier. Refer to the wiring section of this manual additional instructions.

3. Crossover Switch Use the XOVER switch on the end panel of the amplifier to set the internal crossover to OFF or HI. When the switch is set to OFF, a full bandwidth signal will be amplified. Set the switch to HI if you want the amplifier's internal crossover to serve as a high-pass filter. Never change the crossover "OFF/HI" switch setting with the audio system on!

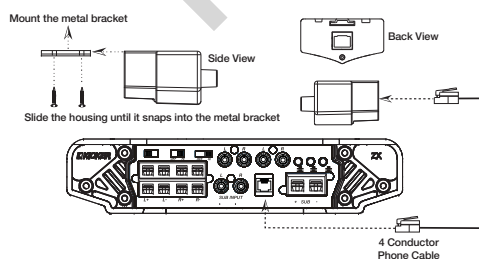
4. Input Gain Control The input gain control is not a volume control. It matches the output of the source unit to the input level of the amplifier. Turn the source unit up to about 3/4 volume (if the source unit goes to 30, turn it to 25). Next, slowly turn (clockwise) the gain on the amplifier up until you can hear audible distortion, then turn it down a little.

5. Bass Boost Control The variable bass boost control on the top of the amplifier is designed to give you increased output 0 - 18dB at 40 Hz. The setting for this control is subjective. If you turn it up, you must go back and adjust the input gain control to avoid clipping the amplifier.

6. Crossover Control The variable crossover on the top of the amplifier allows you to adjust the crossover frequency from 50-200Hz. The setting for this control is subjective; 80Hz is a good place to start.

7. Sub Input If there is no dedicated output on your source unit for subwoofer, use the SUB INPUT switch to set your subwoofer input to either SUB INPUT or AMP INPUT 1.

8. RemoteBass(Level Control) When using the remote bass level control you have the ability to control the level of the Subwoofer Channel's output remotely. To mount the remote bass level control, simply screw the metal bracket to the chosen location. Then slide the housing onto the bracket until it snaps into place. Run the cable from the controller to the "Remote Bass" jack on the amplifier chassis.



Troubleshooting

If your amplifier does not appear to be working, check the obvious things first such as blown fuses, poor or incorrect wiring connections, incorrect setting of crossover switch and gain controls, etc. There is an illuminated red badge on top of the amplifier denoting the power state of the amp in addition to the Protection LED on the end panel of your Kicker ZX series amplifier. When the red badge is lit this indicates

the amplifier is turned on and the amplifier is functioning properly.

RED Badge Light off, no output? With a Volt Ohm Meter (VOM) check the following: 1) +12 volt power terminal (should read +12V to +16V) 2) Remote turn-on terminal (should read +12V to +16V) 3) Check for reversed power and ground connections. 4) Ground terminal, for proper conductivity. 5) Check for blown fuses.

RED Badge Light on, no output? Check the following: 1) RCA connections 2) Test speaker outputs with a "known" good speaker. 3) Substitute source unit with a "known" good source unit. 4) Check for a signal in the RCA cable feeding the amplifier with the VOM meter set to measure "AC" voltage.

End Panel LED flashing with loud music? The yellow LED indicates low battery voltage. Check all the connections in your vehicle's charging system. It may be necessary to replace or charge your vehicle's battery or replace your vehicle's alternator.

End Panel LED on, no output? 1) Amplifier is very hot. ⇨ Thermal protection is engaged. Test for proper impedance at the speaker terminals with a VOM meter (see the diagrams in this manual for minimum recommended impedance and multiple speaker wiring suggestions). Also check for adequate airflow around the amplifier. 2) Amplifier shuts down only while vehicle is running. ⇨ Voltage protection circuitry is engaged. Voltage to the amplifier is not within the 9-16 volt operating range. Have the vehicle's charging and electrical system inspected. 3) Amplifier will only play at low volume levels. ⇨ Short circuit protection is engaged. Check for speaker wires shorted to each other or to the vehicle chassis. Check for damaged speakers, or speaker(s) operating below the minimum recommended impedance.

No output from one channel? 1) Check the balance control on source unit 2) Check the RCA (or speaker input) and speaker output connections for the channel 3) Swap the RCA (or speaker input) cable from left to right. If the problem changes sides then you have a bad RCA (or speaker input) cable or source unit problem. 4) Swap the speaker output wire from left to right. If the problem changes sides then you have a bad speaker cable, passive crossover network and/or speaker.

Alternator noise-whining sound with engine's RPM? 1) Check for damaged RCA (or speaker input) cable 2) Check the routing of RCA (or speaker input) cable 3) Check the source unit for proper grounding 4) Check the gain settings and turn them down if they are set too high.

Poor stereo image or reduced bass response? ⇨ Check system phasing by turning the balance control from left to right. If there is more bass output when turned to either side, then check your speaker wiring, passive crossover networks and speaker terminals for proper positive and negative connections. Reverse a speaker connection from positive to negative on the stereo/subwoofer channel(s); if the bass improves, the speaker was out of phase.

Ground Noise? ⇨ If you are using only one pair of RCA inputs, connect the RCA cable to the AMP1 inputs. Kicker amplifiers are engineered to be fully compatible with all manufacturers' head units. Some head units may require additional grounding to prevent noise from entering the audio signal. If you are experiencing this problem with your head unit, in most cases running a ground wire from the RCA outputs on the head unit to the chassis will remedy this issue.

No Fader? ⇨ When using both sets of low-level (RCA) or high-level (speaker wire) inputs, the fader button must be pushed in.

Please Note: Modern high performance speakers have a lower DC Resistance than what used to be available. The Kicker Coaxial and Component speakers are rated at four ohms (some DC Resistances may be as low as 3 ohms) and work with any amplifier designed to operate at a four ohm load. If you want to use two Kicker Coaxial or Component speakers on a single channel of your amplifier wire the speakers in series. This will improve the sound quality, lower the total harmonic distortion and lessen the thermal load at the amplifier. This may prevent an amplifier from shutting down, due to over-current protection circuitry.

CAUTION: When jump starting the vehicle, be sure that connections made with jumper cables are correct. Improper connections can result in blown amplifier fuses as well as the failure of other critical systems in the vehicle.

If you have more questions about the installation or operation of your new KICKER product, see the Authorized KICKER Dealer where you made your purchase. For more advice on installation, click on the SUPPORT tab on the Kicker homepage, www.kicker.com. Choose the TECHNICAL SUPPORT tab, choose the subject you are interested in, and then download or view the corresponding information. Please E-mail support@kicker.com or call Technical Services (405) 624-8583 for unanswered or specific questions.



Model ZX550.3
70 x 2, 210 x 1 @ 4 ohms from 20-20K, 25-200Hz, 14.4Vdc,
1% THD, CEA-2006 (Watts)
Signal to Noise Ratio -72 / -55 dBA CEA-2006 (ref: 1W, A-weighted)

Model ZX700.5
70 x 4, 210 x 1 @ 4 ohms from 20-20K, 25-200Hz, 14.4Vdc,
1% THD, CEA-2006 (Watts)
Signal to Noise Ratio -72 / -55 dBA CEA-2006 (ref: 1W, A-weighted)

Electronics Limited Warranty

Kicker warrants this product to be free from defects in material and workmanship under normal use for a period of THREE (3) MONTHS 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. 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 repair or replace (at its discretion) the defective merchandise with equivalent merchandise at no charge. Warranty replacements 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 should be returned to your local Authorized Stillwater Designs (Kicker) Dealer for warranty service. Assistance in locating an Authorized Dealer can be found at www.kicker.com or by contacting Stillwater Designs directly. 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 directly to Stillwater Designs (Kicker), call the Kicker Customer Service Department at (405) 624-8510 for a Return Merchandise 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. Please return only defective components. The return of functioning items increases your return freight charges. Non-defective items will be returned freight-collect to you.

Include a copy of the original receipt with the purchase date clearly visible, and a "proof-of-purchase" statement listing the Customer's name, Dealer's name and invoice number, and product purchased. Warranty expiration on items without proof-of-purchase will be determined from the type of sale and manufacturing date code. Freight must be prepaid; items sent freight-collect, or COD, will be refused.

WHAT IS NOT COVERED?

This warranty is valid only if the product is used for the purpose for which it was designed. It does not cover:

- o Damage due to improper installation
- o Subsequent damage to other components
- o Damage caused by exposure to moisture, excessive heat, chemical cleaners, and/or UV radiation
- o Damage through negligence, misuse, accident or abuse. Repeated returns for the same damage may be considered abuse
- o Any cost or expense related to the removal or reinstallation of product
- o Speakers damaged due to amplifier clipping or distortion
- o Items previously repaired or modified by any unauthorized repair facility
- o Return shipping on non-defective items
- o Products with tampered or missing barcode labels
- o Products returned without a Return Merchandise Authorization (RMA) number
- o Freight Damage
- o The cost of shipping product to Kicker
- o Service performed by anyone other than Kicker

HOW LONG WILL IT TAKE?

Kicker strives to maintain a goal of 72-hour service for all electronics (amplifiers, crossovers, equalizers, etc.) returns. Delays may be incurred if lack of replacement inventory or parts is encountered.

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

NOTE: All specifications and performance figures are subject to change. Please visit the www.kicker.com for the most current information.

International Warranty

Contact your International Kicker dealer or distributor concerning specific procedures for your country's warranty policies.

WARNING: KICKER products are capable of producing sound levels that can permanently damage your hearing! Turning up a system to a level that has audible distortion is more damaging to your ears than listening to an undistorted system at the same volume level. The threshold of pain is always an indicator that the sound level is too loud and may permanently damage your hearing. Please use common sense when controlling volume.

GARANTÍA INTERNACIONAL *Versión Española*

Comuníquese con su concesionario o distribuidor Kicker internacional para obtener información sobre procedimientos específicos relacionados con las normas de garantía de su país.

ADVERTENCIA: Los excitadores Kicker son capaces de producir niveles de sonido que pueden dañar permanentemente el oído. Subir el volumen del sistema hasta un nivel que produzca distorsión es más dañino para el oído que escuchar un sistema sin distorsión al mismo volumen. El dolor es siempre una indicación de que el sonido es muy fuerte y que puede dañar permanentemente el oído. Sea precavido cuando controle el volumen.

La frase "combustible para vivir la vida Livin' Loud™ a todo volumen" se refiere al entusiasmo por la vida que la marca Kicker de estéreos de automóvil representa y a la recomendación a nuestros clientes de que vivan lo mejor posible ("a todo volumen") en todo sentido. La línea de altavoces y amplificadores Kicker es la mejor del mercado de audio de automóviles y por lo tanto representa el "combustible" para vivir a todo volumen en el área de "estéreos de automóvil" de la vida de nuestros clientes. Recomendamos a todos nuestros clientes que obedezcan todas las reglas y reglamentos locales sobre ruido en cuanto a los niveles legales y apropiados de audición fuera del vehículo.

INTERNATIONALE GARANTIE *Deutsche Version*

Nehmen Sie mit Ihren internationalen Kicker-Fachhändler oder Vertrieb Kontakt auf, um Details über die Garantieleistungen in Ihrem Land zu erfahren.

WARNUNG: KICKER-Treiber können einen Schallpegel erzeugen, der zu permanenten Gehörschäden führen kann! Wenn Sie ein System auf einen Pegel stellen, der hörbare Verzerrungen erzeugt, schadet das Ihren Ohren mehr, als ein nicht verzerrtes System auf dem gleichen Lautstärkepegel. Die Schmerzschwelle ist immer eine Anzeige dafür, dass der Schallpegel zu laut ist und zu permanenten Gehörschäden führen kann. Seien Sie bei der Lautstärkeeinstellung bitte vernünftig!

Der Slogan "Treibstoff für Livin' Loud" bezieht sich auf die mit den Kicker-Autostereosystemen assoziierte Lebensfreude und die Tatsache, dass wir unsere Kunden ermutigen, in allen Aspekten ihres Lebens nach dem Besten ("Livin' Loud") zu streben. Die Lautsprecher und Verstärker von Kicker sind auf dem Markt für Auto-Soundsysteme führend und stellen somit den "Treibstoff" für das Autostereoerlebnis unserer Kunden dar. Wir empfehlen allen unseren Kunden, sich bezüglich der zugelassenen und passenden Lautstärkepegel außerhalb des Autos an die örtlichen Lärmvorschriften zu halten.

GARANTIE INTERNATIONALE *Version Française*

Pour connaître les procédures propres à la politique de garantie de votre pays, contactez votre revendeur ou distributeur International Kicker.

AVERTISSEMENT: Les haut-parleurs Kicker ont la capacité de produire des niveaux sonores pouvant endommager l'ouïe de façon irréversible ! L'augmentation du volume d'un système jusqu'à un niveau présentant une distorsion audible endommage davantage l'ouïe que l'écoute d'un système sans distorsion au même volume. Le seuil de la douleur est toujours le signe que le niveau sonore est trop élevé et risque d'endommager l'ouïe de façon irréversible. Réglez le volume en faisant preuve de bon sens !

L'expression "carburant pour vivre plein pot" fait référence au dynamisme de la marque Kicker d'équipements audio pour véhicules et a pour but d'encourager nos clients à faire le maximum ("vivre plein pot") dans tous les aspects de leur vie. Les haut-parleurs et amplificateurs Kicker sont les meilleurs dans le domaine des équipements audio et représentent donc pour nos clients le "carburant pour vivre plein pot" dans l'aspect "installation audio de véhicule" de leur vie. Nous encourageons tous nos clients à respecter toutes les lois et réglementations locales relatives aux niveaux sonores acceptables à l'extérieur des véhicules.



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