



CONTACT INFO

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SHOW US YOUR INSTALL & FOLLOW US TODAY!

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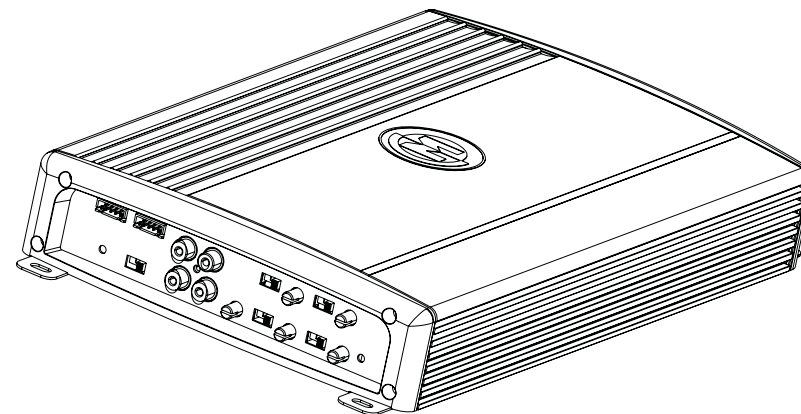
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MEMPHIS

PRODUCT MANUAL & INSTALLATION GUIDE



SR STREET REFERENCE

MODELS: SRX150.2 // SRX300.4

MULTI CHANNEL AMPLIFIERS



SR STREET REFERENCE
AMPLIFIERS

READY TO TURN IT UP? READ THIS FIRST!

Memphis Audio built a 50 year legacy in the audio industry engineering the highest quality products to produce the best possible listening experience for our fans and loyal supporters. To fully appreciate our products we recommend taking the time to read and follow the instructions in this manual. As always, we recommend all installations and service be performed by an authorized Memphis Audio dealer.



For optimal performance, Memphis recommends using only Memphis Connection accessories. Outfitting your system with properly sized Memphis Connection wire and accessories will dramatically boost your listening experience and increase the durability of your Memphis Audio products.

Street Reference amplifiers feature a MOSFET powersupply with a 12dB per octave crossover to ensure the most accurate musical reproduction. All models feature a fully variable crossover with 12dB per octave slopes allowing you the ability to tailor the sound to best fit your speakers and your listening preferences.



Check out our full line of Street Reference speakers and woofers to create a complete Memphis Street Reference system in your ride.

FEATURES

- 2 ohms stereo stable / 4 ohms mono
- High & low level inputs
- 0/6/12dB Bass Boost
- Bridgeable & Tri-Mode operation
- Fully variable high & low pass crossovers
- Protection circuitry against overload, short circuit, thermal and reverse polarity

Bridgeable & Tri-Mode Operation

Street Reference Amplifiers can be used in stereo, bridged or tri-mode operation. Tri-Mode operation means that a pair of speakers are wired in the conventional stereo manner while a subwoofer is simultaneously connected to the bridged terminals of the same two channels. This is useful for simple 2-channel systems that require a subwoofer in addition to the full range speakers.

Nickel Plated Connectors

Ensures solid electrical connections that resist corrosion.

Fully Variable High & Low Pass Crossovers

Fully variable crossovers promote installation ease and save the cost of outboard crossovers. Additionally, they may be used in conjunction with outboard passive or active crossovers depending on the complexity required by the system. The 12dB per octave slope offers roll-off above or below the selected frequency.

Protection Circuitry

Protects against overload, short circuit, thermal and reverse polarity. These protection features are designed to protect the amplifier from misuse as well as from common causes of amplifier failure.

LED Light

Blue light indicates that the amplifier is working normally. If the light is not illuminated or glowing red please consult the troubleshooting section of the manual.

WARRANTY

Memphis Audio SRX AMPLIFIER Limited Warranty

This product has a one year warranty from the date of purchase for defects in material or workmanship. This warranty will be extended to 2 years when installed by a Memphis authorized dealer using Memphis Connection products. The warranty is void if the product has been physically damaged by improper usage or abuse. If repairs are attempted outside of a Memphis Audio facility, the warranty is void.

This warranty is limited to the original retail purchaser and does not cover any expenses incurred in the removal or re-installation of the product. This warranty does NOT apply to product exterior and cosmetics. Memphis Audio disclaims any liability for incidental or consequential damages caused by product defects. Memphis Audio liability will not exceed the purchase price of the product and the warranty period specified.

What is NOT covered under warranty

- Damage due to improper installation
- Damage caused by exposure to moisture, excessive heat, chemical cleaners and/or UV radiation
- Damage through negligence, misuse, accident or abuse. (Repeated returns for the same damage may be abuse)
- Product damaged in accident and/or due to criminal activity
- Service performed by anyone other than Memphis Audio
- Subsequent damage to other components
- Any cost or expense related to the removal or re-installation of product
- Products with tampered, missing, altered or defaced serial numbers/labels
- Freight damage
- The cost of shipping product to Memphis Audio
- Return shipping on non-defective items
- Any product not purchased from an authorized Memphis Audio dealer

Some states do not allow the exclusion or limitation of incidental or consequential damages. The above limitations or exclusions may not apply to you. This warranty gives you specific rights, you may have other rights which vary from state to state.

If warranty service is required, a return authorization number is required to return the product to Memphis Audio. Warranty shipments to Memphis Audio are the responsibility of the purchaser. Pack the product carefully in the original carton if possible. Memphis Audio will not be responsible for damages incurred in shipment or due to improper packaging materials used by the purchaser.

If determined to be within warranty your product will be repaired or replaced at the discretion of Memphis Audio.

SPECIFICATIONS

SR AMPLIFIERS	Specifications	SRX150.2	SRX300.4
	RMS Pwr/CH 4 Ohms	50W x 2	50W x 4
	RMS Pwr/CH2 Ohms	75W x 2	75W x 4
	RMS Power/Bridge 4 Ohms	150W x 1	150W x 2
	THD (4 ohms)	< 0.1%	< 0.1%
	THD (2 ohms)	< 0.5%	< 0.5%
	Signal/Noise Ratio	> 90dB	> 90dB
	Channel Separation	> 50dB	> 50dB
	Frequency Response \pm 0.5dB	20Hz - 20kHz	20Hz - 20kHz
	Crossover Frequency LPF	30Hz - 250Hz	30Hz - 250Hz
	Crossover Frequency HPF	50Hz - 1kHz	50Hz - 1kHz
	Bass Boost	45Hz 0/6/12dB	45Hz 0/6/12dB
	Dimensions	8.071" x 2" x 9.05"	8.071" x 2" x 13.01"
	Input Sensitivity		
	Low Level	100mV - 6V	100mV - 6V
	High Level	400mV - 12V	400mV - 12V
	Input Impedance		
	Low Level	10k Ohms	10k Ohms
	High Level	47 Ohms	47 Ohms
	Fuse	20 Amp x 1	25 Amp x 2

**Features and Specifications are subject to change without notice.*

SERVICE/RETURNS

Please consult with your local authorized dealer if you experience issues with your unit. You may also contact Memphis Audio customer service at 800-489-2300 or email tech support directly at: techsupport@memphis-caraudio.com. Do not attempt to return your amplifier directly to us without first calling for a Return Authorization number. Units received without an accompanying Return Authorization number will be processed more slowly. Additionally, you must include a copy of your purchase receipt from an authorized dealer for consideration of in-warranty service, otherwise repair charges will apply. Units received without a receipt will be held for up to 30 days allowing us time to contact you and obtain a copy of the receipt. After 30 days all units will be returned to you unrepai red.

INSTALLATION INFORMATION

Memphis Audio recommends the installation of our products to be performed by an Authorized dealer. Attempting an installation project on your own or through an unauthorized source may result in damage to your products and may potentially void your warranty.

Amplifiers are generally mounted in the hatch/trunk area of your car or SUV or behind the seat of most pick up trucks. Select a location that provides adequate ventilation. Avoid mounting the amplifier with fins facing down. Amplifier should be secured using the screws provided.

WARNING

For your safety, always inspect the mounting location carefully to ensure you are not drilling into any electrical, hydraulic, fuel or fluid lines. Always check your speaker load with a multi-meter before connecting the amplifier. Connecting any speaker load lower than the rated impedance of the amplifier will result in damage to the amplifier. Damage of this nature is NOT covered under warranty. Please pay close attention to what connections are made to the amplifier.



If you are uncertain or uncomfortable proceeding with your installation, please contact your local authorized Memphis Audio Dealer

TROUBLESHOOTING

When troubleshooting your amp, speaker and speaker wires should be tested first.

No Output:

- Confirm all wiring is firmly connected. Both +12V and REM terminals must have +12 Volts present and GND must be connected to chassis' ground or to the negative battery terminal.
- Confirm the signal source is connected and supplying an output signal. To confirm the amp is working, connect an RCA patch cord to the line inputs of the amplifier (do not connect the other end of the patch cord). Briefly tap the center pin of each disconnected RCA with your finger. This should produce a noise (brief static or hum) in the speakers.
- If the amp is hot, check the speaker impedance or load. The total minimum impedance of all speakers should not be lower than the rating of the amp.

Only One Channel Works:

- Confirm the speaker terminal strip connections are firmly connected.
- Check "balance" control on your signal source.
- If using RCA Low-Level inputs, reverse the input plugs at the amplifier. If the channel that is silent reverses position, the problem is in the source unit or connecting cable.

Weak Output

- Check input sensitivity control adjustment.

Unwanted Noise

- Whine that increases and decreases with engine speed - confirm the Amp & Source unit are grounded properly.
- Clicking or popping noise at a rate that follows engine speed - this is often induced by the vehicles ignition system. Confirm that the vehicle is equipped with resistor spark plugs and wires. The ignition system may need service.
- Noise can be caused by routing speaker input wires too close to the light wires and other accessory wires in the vehicle. Re-route wires to avoid unwanted interference.
- If above steps do not improve/reduce noise, the system should be checked by a professional audio installer at a Memphis Authorized Dealer.

Red LED is Illuminated

- Speaker or wire is shorted
- Battery voltage too high
- Battery voltage too low
- Amplifier has overheated due to improper ventilation

POWER SUPPLY CONNECTIONS



Install the fuse at the battery last!



Use conventional stranded copper wire for all connections. Finish the ends of the wires at the amp and vehicle with proper size terminals. Poorly made connections and/or inadequate wire size will generate excessive heat and may lead to equipment failure.

12 Volt + Connection

make the 12V+ connection directly at the positive battery post using the proper wire size and fuse listed below, The fuse should be installed within 18" of the battery.

Model	Wire Gauge	Fuse Value
SRX150.2	8	20 A
SRX300.4	4	25 A x 2

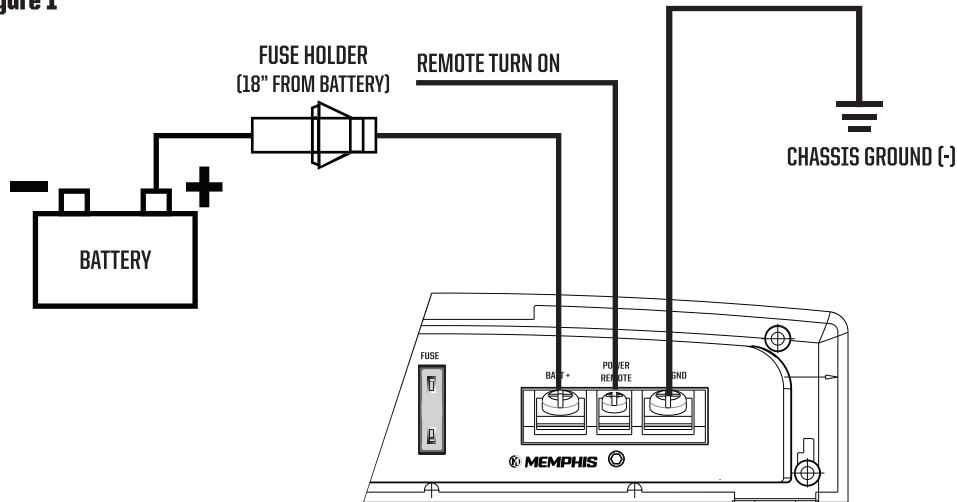
Ground Connection:

Make ground connection directly to the chassis of the vehicle as close to the amp as possible. Make sure this connection is made with the same wire size as used for the 12 volt connection. Ensure that all dirt, grease, paint and coatings are removed prior to attaching the ground wire to chassis.

Remote Turn On

Remote turn on should be connected to the source unit's remote turn on lead or power antenna output wire. When using the power antenna wire, make certain it does not lose power when any source other than the radio is selected.

Figure 1

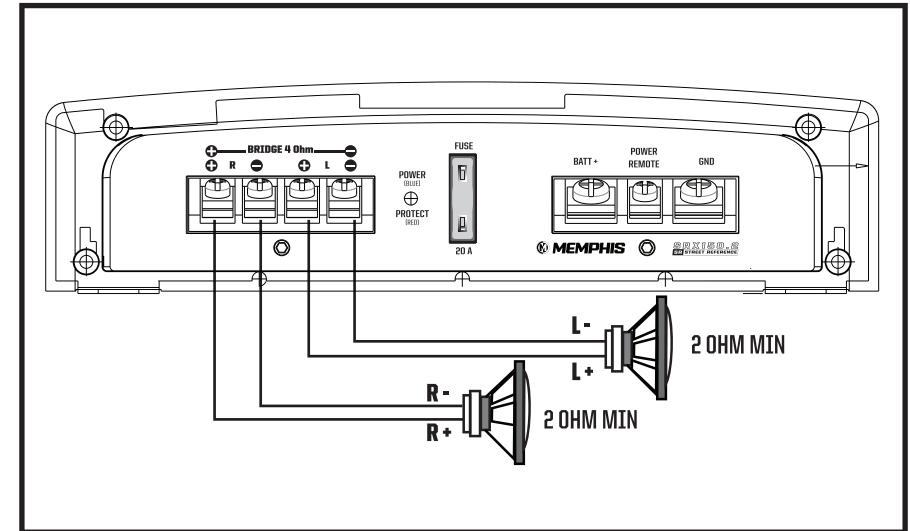


SPEAKER CONNECTIONS CONTINUED

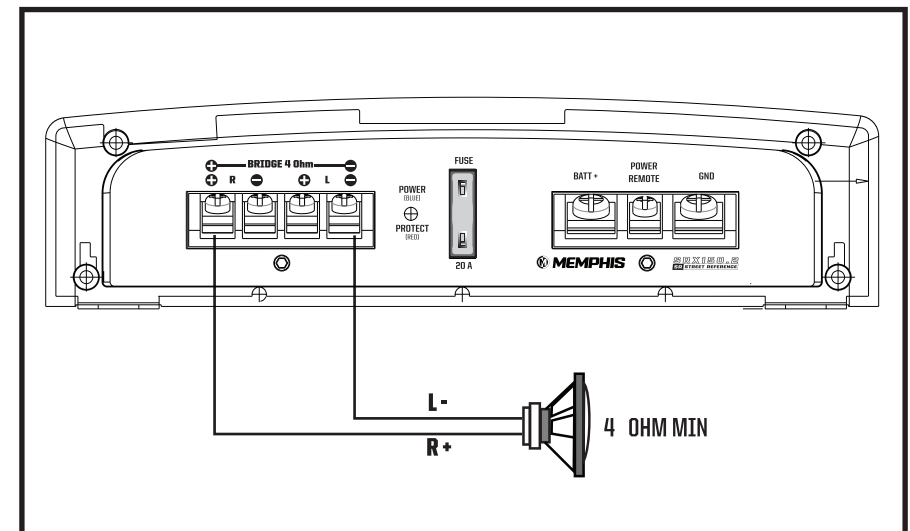
Speakers have a positive and negative marking on the terminals. These are used to indicate polarity and must be considered when wiring speakers or subwoofers to an amplifier. Amplifiers also have positive and negative markings on their speaker outputs. Use these markings to match polarities to ensure the speakers are in phase. Failure to wire speakers or woofers in phase with one another will result in a loss of bass. All street reference amplifiers require a minimum 2ohm impedance in stereo or 4 ohms in mono (bridged) mode.

2 Ch Model (SRX 150.2)

STEREO MODE



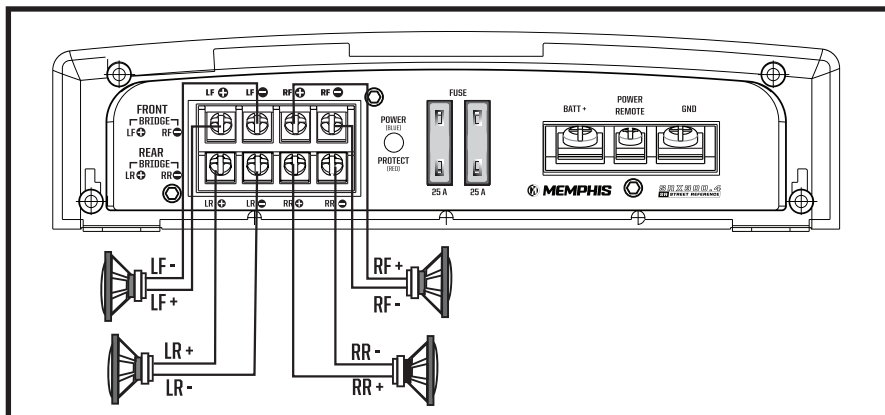
MONO MODE



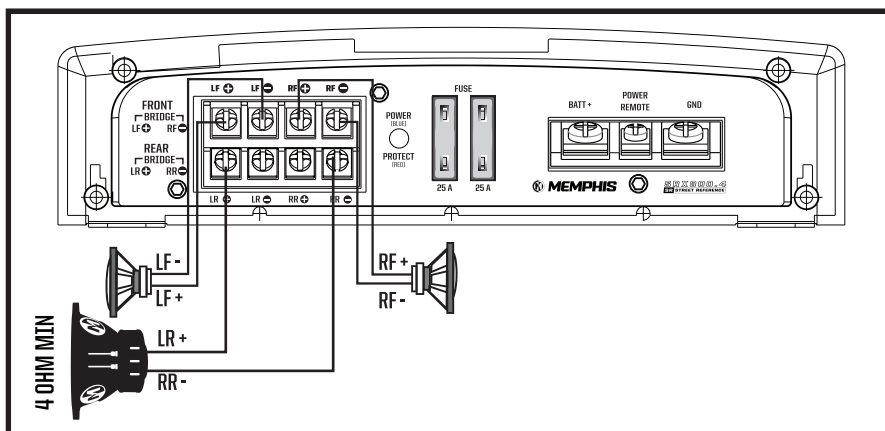
SPEAKER CONNECTIONS CONTINUED

4 Ch Model (SRX300.4)

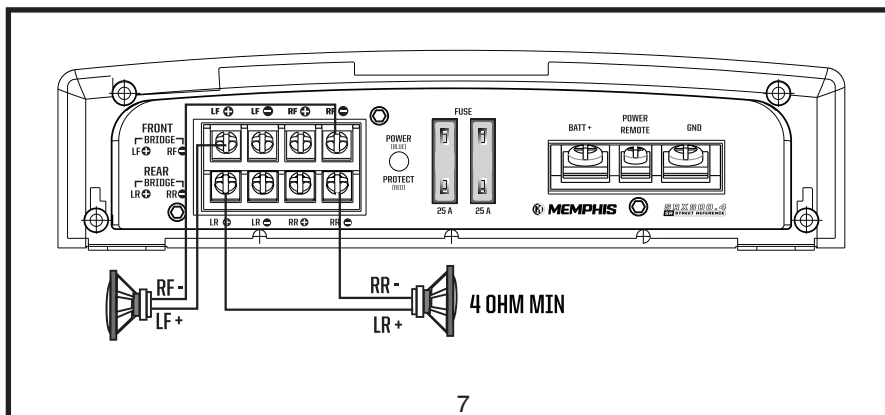
4 CH MODE



3CH MODE

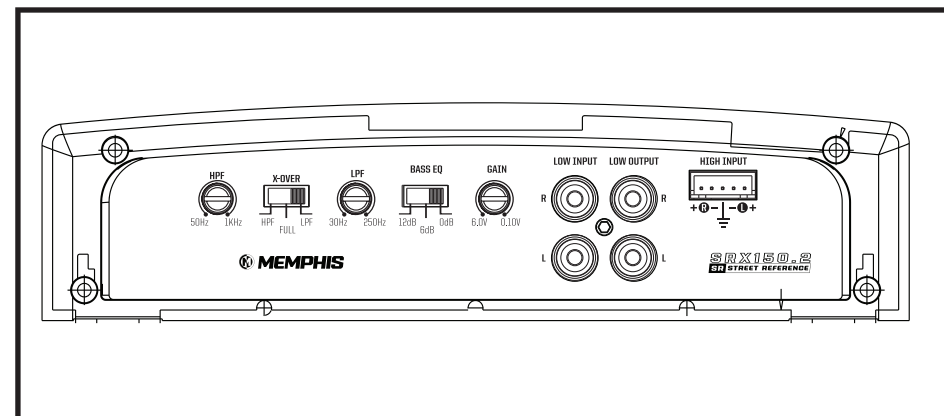


2CH MODE

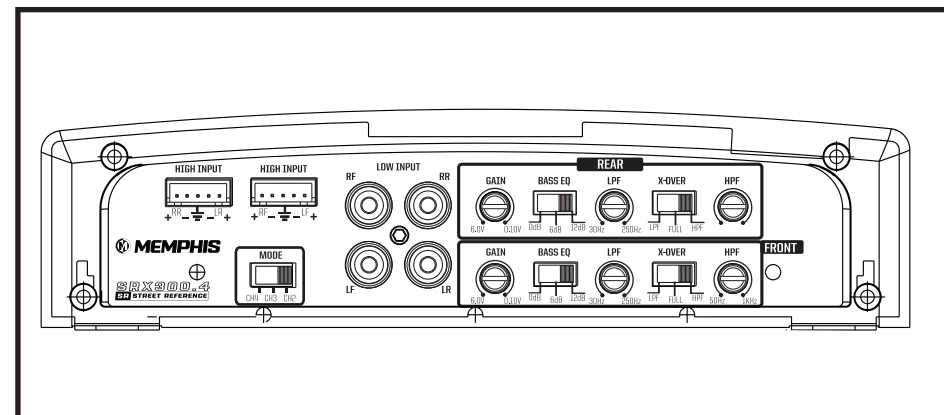


CONTROLS

SRX150.2



SRX300.4



SETUP AND ADJUSTMENT

Gain

The gain control is NOT a volume control. The gain control adjusts the amount of signal required to drive the amplifier to full output. With the gain at full clockwise rotation, less signal voltage is required to drive the amp to full output. With the gain at full counter clockwise rotation, more signal voltage is required to drive the amp to full output. For optimal performance, set the gain control to minimum

High Pass Filter (HPF)

The high pass crossover/filter is designed to remove low frequency information from a speaker. This is generally used to protect smaller devices from trying to reproduce low frequency information that might damage them. The crossover frequency is adjustable from 50 Hz to 1KHz and uses 12 dB per octave slope. To engage the HPF simply slide the switch to the position on the marked HPF. Crossover frequency selection is made by rotating the dial: clockwise raises the frequency, counter-clockwise lowers the frequency. Most mid-bass or midrange drivers should be set between 80 and 400 Hz depending on how high the subwoofer(s) plays. For mid-range drivers that are 5" or smaller we suggest setting the HPF to 120Hz. The HPF can also be combined with passive crossovers on a separate or coaxial speaker set to provide low frequency protection to the midrange driver, or to form band-pass filter for a midrange speaker already using a passive low-pass filter.

Low Pass Filter (LPF)

The Lowpass crossover/filter is designed to remove high frequency information from a speaker. This is generally used to prevent mid bass speakers or subwoofers from trying to reproduce mid and high frequency information that they are not designed to reproduce. The crossover frequency is adjustable from 30Hz to 250Hz and uses a 12dB per octave slope. To engage the LPF slide the switch to the position marked LPF. Frequency selection is made by rotating the dial: clockwise raises the frequency and counter clockwise lowers the frequency. Most subwoofers should be set between 80Hz and 100Hz depending on how low the mid-bass or midrange drivers are capable of playing.

Full Range

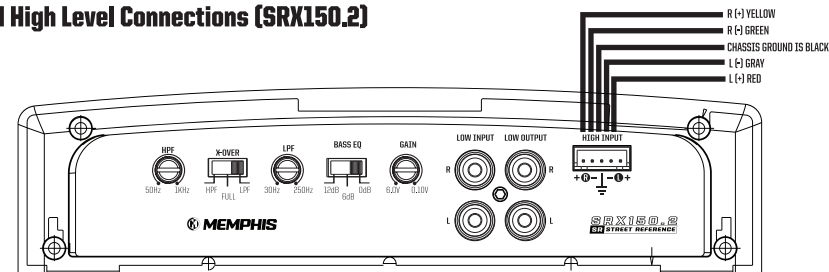
Sliding the selector switch to this position turns off all crossovers and allows a full range signal to pass. The flat position should be selected when using outboard electronic crossovers.

Bass Boost

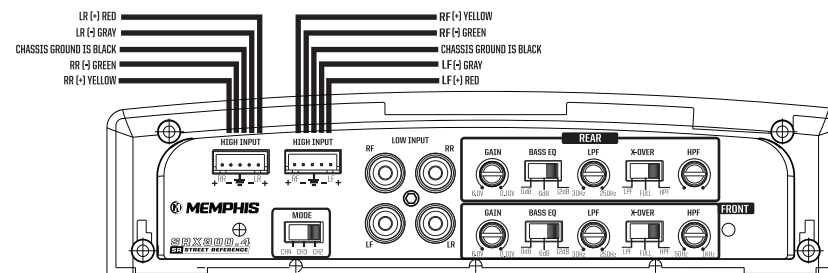
Bass boost on all models is switchable to 0/6/12dB. Boost should be used with discretion, keeping in mind that electronically enhanced boost places an additional load on the amplifier and the speakers they are connected to.

SIGNAL INPUT CONNECTIONS

2 CH High Level Connections (SRX150.2)



4 CH High Level Connections (SRX300.4)



SPEAKER CONNECTIONS

TRI-MODE: MIXED STEREO/MONO MODE

**Consult with your dealer for options*

