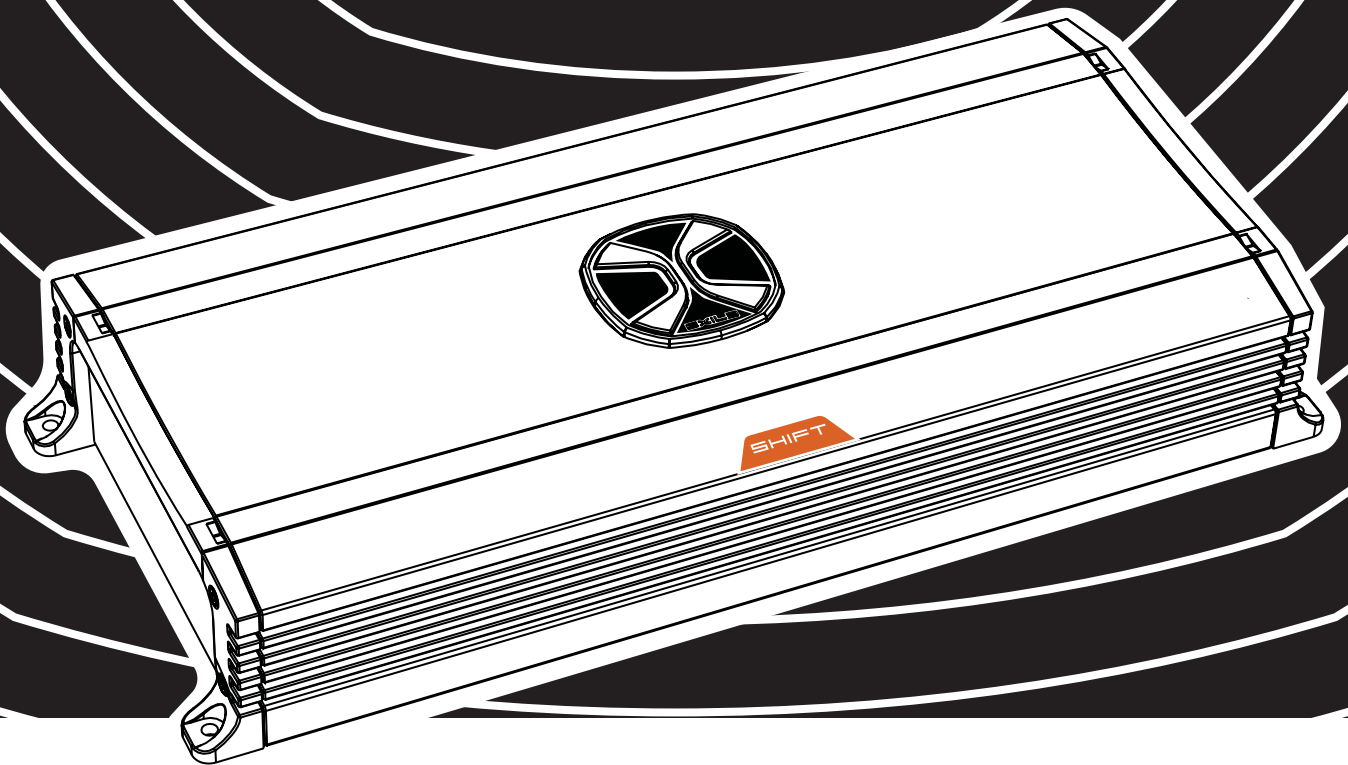




EXILE
www.exileaudio.com



SHIFT SERIES AMPLIFIERS

OWNER'S MANUAL



Designed and Engineered
in the USA. Made in China

MODELS: S50.4 / S110.5 / S60.1 / S100.1 / S150.1

WELCOME TO EXILE

Congratulations on purchasing your Exile amplifier. Please read this manual in order to fully understand how to get the best results from this product and ensure that all advice on how to look after the product is followed.

Thank you for buying Exile, we hope you enjoy listening to your product as much as we enjoyed creating it.



Exile Audio Lake Oswego, OR USA
www.exileaudio.com

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ATTENTION



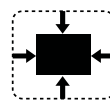
An aftermarket audio amplifier will place an additional load on the vehicles charging system. Most modern vehicles have sufficient capacity in the charging system as not all of the electrical components of the vehicle will be switched on at once.

Check the fuse rating of the amplifier and use this as the peak current requirement. Generally, the continuous current draw will be a third of the peak current.

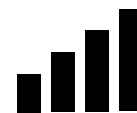
FEATURES

The Shift series amplifier offer big power in a compact chassis. This makes for easy installation in tight spaces without sacrificing any of the output. Shift amps utilize Class D efficiency and come packed with features to give you ultimate control over your audio. Whether you're cruising the streets, getting muddy, or riding the waves Exile Audio has you covered with Shift series power amplifiers.

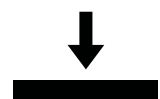
- Compact size with high power output
- Wired remote bass level controller
- Bass boost frequency and level adjustment
- Adjustable low pass and subsonic filters
- High Efficiency, energy saving digital amplifier with reliable full mosfet design



**SMALL
FOOTPRINT**



**HIGH
EFFICIENCY**



**LOW
PROFILE**

SHIFT

SPECIFICATIONS *Monoblock*

Amplifier Class	Class D
Frequency Response:	15 - 220Hz
Total Harmonic Distortion	< 1%
Signal to Noise Ratio:	70dB (1W)
Gain Range	0.2 - 5V
Low Pass Crossover Range	40 - 220Hz
Subsonic Crossover Range	OFF - 220Hz
Bass Boost @ 45Hz:	0 to +12dB
Remote Bass Control	Yes

S60.1

Channels	1
Into 1 ohm	400w x 1
Into 2 ohm	600w x 1
Power/Ground Wire Size:	4 Gauge
Dimensions:	L: 9.4in (239mm) W: 5.9in (150mm) H: 2.3in (58mm)

S100.1

Channels	1
Into 1 ohm	1000w x 1
Into 2 ohm	650w x 1
Into 4 ohm	400w x 1
Power/Ground Wire Size:	4 Gauge
Dimensions:	L: 14.0in (354mm) W: 5.9in (150mm) H: 2.3in (58mm)

S150.1

Channels	1
Into 1 ohm	1500w x 1
Into 2 ohm	900w x 1
Into 4 ohm	500w x 1
Power/Ground Wire Size:	4 Gauge
Dimensions:	L: 17.5in (444mm) W: 5.9in (150mm) H: 2.3in (58mm)

SPECIFICATIONS *Multichannel*

Amplifier Class	Class D
Frequency Response:	20 - 20kHz
Total Harmonic Distortion	<1%
Signal to Noise Ratio:	75dB (1W)
Gain Range	0.2 - 5V
Low Pass Crossover Range	50 - 750Hz
Subsonic Crossover Range	50 - 750Hz
Bass Boost @ 45Hz:	0 to +18dB
Remote Bass Control	NA

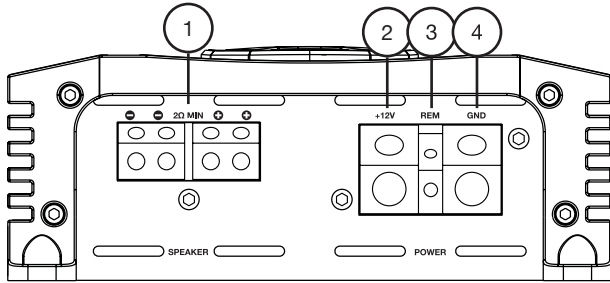
S50.4

Channels	4
Into 4 ohm	70w x 4
Into 2 ohm	110w x 4
In to 4 ohm Bridged	250w x 2
Power/Ground Wire Size	4 AWG
Dimensions	L: 9.4in (239mm) W: 5.9in (150mm) H: 2.3in (58mm)

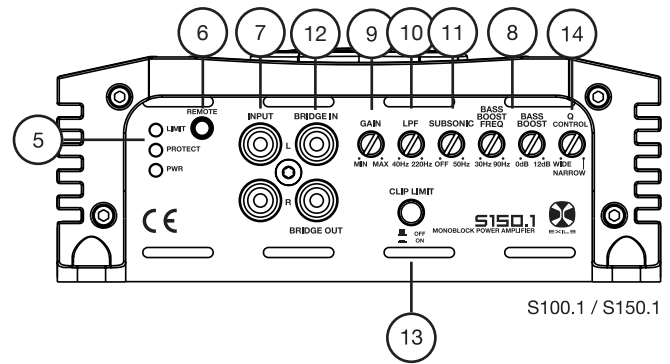
S110.5

Channels	5
Into 4 ohm	100w x 4
Into 2 ohm (Sub CH)	530w x 1
Power/Ground Wire Size	4 AWG
Dimensions	L: 15.0in (383) W: 5.9in (150mm) H: 2.3in (58mm)

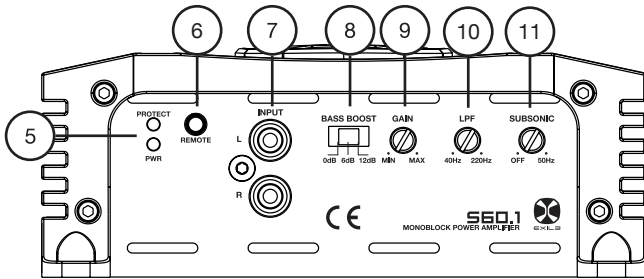
CONTROL FUNCTIONS S60.1 / S100.1 / S150.1



S60.1 / S100.1 / S150.1



S100.1 / S150.1



S60.1

1: SPEAKER

Connect speaker/subwoofers to these terminals. Be sure to check wire for proper polarity. Never connect the speaker cables to chassis ground.

2: +12V POWER

Connect this terminal through a FUSE or CIRCUIT BREAKER to the positive terminal of the vehicle battery or the positive terminal of an isolated audio system battery.

Warning: Always protect this power cable by installing a fuse or circuit breaker of the appropriate size withing 18" (45cm) of the battery terminal connection.

3: REMOTE TURN ON (REM)

This terminal turns on the amplifier when +12 volts is applied to it. Connect it to the remote turn on lead of the head unit or signal source.

4: GND

Connect this cable directly to the frame of the vehicle. Make sure the metal frame has been stripped of all paint down to the bare metal. Use the shortest distance possible. It is always a good idea to replace the factory ground at this time with a larger cable equal to the new amplifier power cable or larger.

CAUTION: Do not connect this terminal directly to the vehicle battery ground terminal or any other factory ground points.

5: LIMIT / PROTECT / PWR

The LIMIT LED (S100.1 / S150.1) will light up when the output is clipped or amplifier gets over heated. When the limit indicator lights up, the amplifier will hold or reduce output power to protect subwoofer and amplifier. Please turn down volume or cool down the amplifier when this indicator lights up continually.

The red PROTECT LED will light up and will be flashing if there is a fault presented to the amplifier. Please disconnect the amplifier and resolve the fault before reconnecting the amplifier.

The green PWR LED will light up when the amplifier is powered on and working correctly.

6: REMOTE

Connect the remote controller to control the Subwoofer amplifier volume from the driver seat location, for ease of adjustment during playing.

7: INPUT

These RCA input jacks are for use with source units that have RCA outputs. A source unit with a minimum level of 200mV is required for proper operation. The use of high quality twisted pair cables is recommended to decrease the possibility of radiated noise entering the system.

8: BASS BOOST / BASS BOOST FREQ

This adjusts the boost level of the bass boost center frequency. It can be adjusted from 0 to 12dB, Combining with bass boost frequency (S150.1), you can accurately match the amplifier performance to woofer response.

9: GAIN

The level control will match the amplifiers sensitivity to the source units signal voltage. The Operating range is 200mV minimum to 5V maximum. This is NOT a volume control!

10: LPF

This control is used to select the desired low pass x-over frequency. The frequency can be adjusted from 40Hz to 220Hz.

11: SUBSONIC

This control can filter out unwanted low frequency from 1 0Hz (OFF) to 50Hz. This function will increase the power handling of your woofers.

12: BRIDGE IN / BRIDGE OUT

The BRIDGE IN jack receives signal from the master amplifier when this amplifier is bridged as slave. DO NOT use input jacks when the amplifier is working as slave. All the functions will be adjusted by the master amplifier.

The BRIDGE OUT jack sends the bridge signal to another, same Shift-series amplifier in bridging configuration. All the functions will be adjusted by the master amplifier.

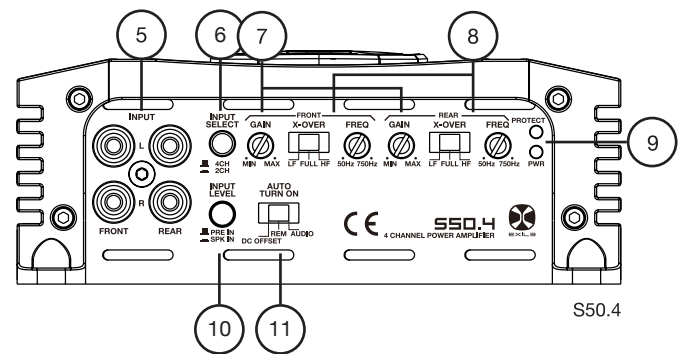
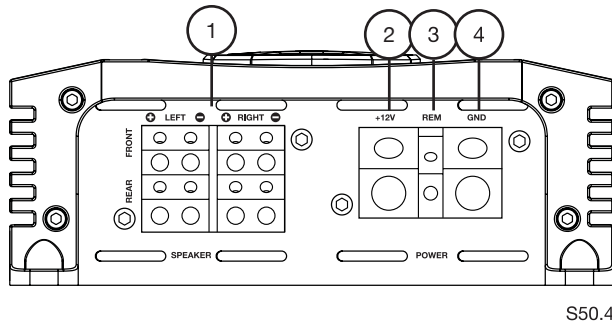
13: CLIP LIMIT

This switch control the output clip limit on/off . When switched on, the amplifier will control the output level at clip point and reduce the distortion. This will keep your amplifier at a low distortion at clipped signal.

14: Q CONTROL

This knob adjusts bass boost curve. Turn it to narrow side will make the boosted frequency narrow and sharp, turn it to wide will extend the boosted frequency range.

CONTROL FUNCTIONS S50.4



1: SPEAKER

Connect speaker/subwoofers to these terminals. Be sure to check wire for proper polarity. Never connect the speaker cables to chassis ground.

2: +12V POWER

Connect this terminal through a FUSE or CIRCUIT BREAKER to the positive terminal of the vehicle battery or the positive terminal of an isolated audio system battery.

Warning: Always protect this power cable by installing a fuse or circuit breaker of the appropriate size withing 18" (45cm) of the battery terminal connection.

3: REMOTE TURN ON (REM)

This terminal turns on the amplifier when +12 volts is applied to it. Connect it to the remote turn on lead of the head unit or signal source.

4: GND

Connect this cable directly to the frame of the vehicle. Make sure the metal frame has been stripped of all paint down to the bare metal. Use the shortest distance possible. It is always a good idea to replace the factory ground at this time with a larger cable equal tot he new amplifier power cable or larger.

CAUTION: Do not connect this terminal directly to the vehicle battery ground terminal or any other factory ground points.

5: INPUT

These RCA input jacks are for use with source units that have RCA outputs. A source unit with a minimum level of 200mV is required for proper operation. The use of high quality twisted pair cables is recommended to decrease the possibility of radiated noise entering the system.

6: INPUT SELECT

This button selects either 2ch or 4ch input mode. When pressed in, the amplifier works in 2CH input, mode, CH-B input will be paralleled to CH-A, CH-B input jack will be dummy. When pressed out, amplifier will work in 4CH input mode.

7: GAIN

The level control will match the amplifiers sensitivity to the source units signal voltage. The Operating range is 200mV minimum to 5V maximum. This is NOT a volume control!

8: LPF/FUL/HPF SELECTOR & FREQUENCY ADJUST KNOB

This switch and knob control Low Pass Filter, High Pass and Full pass function. When set to LPF, The amplifier will cut off high frequencies and should be used for driving subwoofers. When set to HPF, The amplifier will cut off low frequencies and should be used for driving full range speakers or tweeter. When set to FULL, the Full range of frequencies are reproduced and outputted to the speakers. In another words the filters are "OFF".

9: PROTECT / PWR

The red PROTECT LED will light up and will be flashing if there is a fault presented to the amplifier. Please disconnect the amplifier and resolve the fault before reconnecting the amplifier.

The green PWR LED will light up when the amplifier is powered on and working correctly.

10: INPUT LEVEL

The amplifier has dual input sensitivity differential inputs which will receive either High level (Speaker output) or Low level (RCA) signals from your car stereo's source unit. When switch to PRE IN, The signal can be delivered to the amplifier using the low level RCA outputs on the source unit. When switch to SPK IN, The High-Level signal can be run from the source unit's speaker outputs to the stereo RCA input on the end panel of the amplifier using a speaker to RCA adapter (not included).

11: AUTO TURN ON

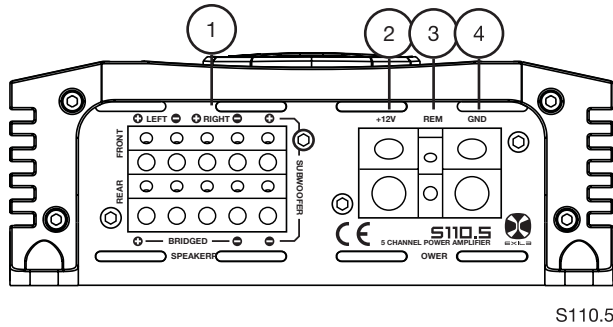
For auto turn on/off mode there are three options: DC Offset/Rem/Audio.

REM: When auto turn on to REM, please connect the unit REM terminal to the source unit remote terminal with an 18AWG cable. This is the preferred mode.

DC Offset: If the OEM source unit has no REM signal output, you can choose DC Offset (Meanwhile, Input select switch to SPK IN mode), DC Offset can turn on/off amplifier by detecting the 6V DC Offset from the OEM source unit terminal.

AUDIO: Audio mode can turn ON/OFF the amplifier by detecting the audio signal from the source unit. Note: If the volume is too Low, The amp may fail to turn on. Check if the source unit volume is properly set.

CONTROL FUNCTIONS S110.5



1: SPEAKER

Connect speaker/subwoofers to these terminals. Be sure to check wire for proper polarity. Never connect the speaker cables to chassis ground.

2: +12V POWER

Connect this terminal through a FUSE or CIRCUIT BREAKER to the positive terminal of the vehicle battery or the positive terminal of an isolated audio system battery.

Warning: Always protect this power cable by installing a fuse or circuit breaker of the appropriate size withing 18" (45cm) of the battery terminal connection.

3: REMOTE TURN ON (REM)

This terminal turns on the amplifier when +12 volts is applied to it. Connect it to the remote turn on lead of the head unit or signal source.

4: GND

Connect this cable directly to the frame of the vehicle. Make sure the metal frame has been stripped of all paint down to the bare metal. Use the shortest distance possible. It is always a good idea to replace the factory ground at this time with a larger cable equal tot he new amplifier power cable or larger.

CAUTION: Do not connect this terminal directly to the vehicle battery ground terminal or any other factory ground points.

5: INPUT

These RCA input jacks are for use with source units that have RCA outputs. A source unit with a minimum level of 200mV is required for proper operation. The use of high quality twisted pair cables is recommended to decrease the possibility of radiated noise entering the system.

6: INPUT LEVEL

The amplifier has dual input sensitivity differential inputs which will receive either High level (Speaker output) or Low level (RCA) signals from your car stereo's source unit. When switch to PRE IN, The signal can be delivered to the amplifier using the low level RCA outputs on the source unit. When switch to SPK IN, The High-Level signal can be run from the source unit's speaker outputs to the stereo RCA input on the end panel of the amplifier using a speaker to RCA adapter (not included).

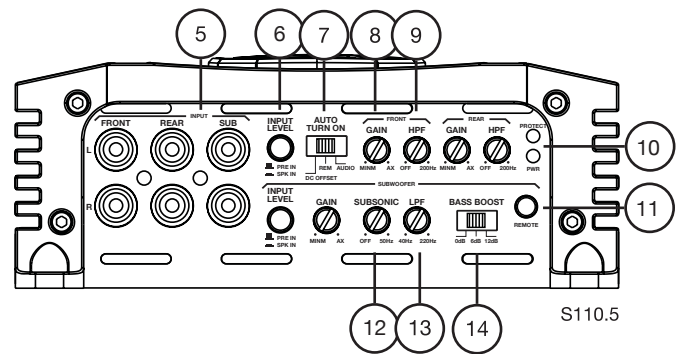
7: AUTO TURN ON

For auto turn on/off mode there are three options: DC Offset/Rem/Audio.

REM: When auto turn on to REM, please connect the unit REM terminal to the source unit remote terminal with an 18AWG cable. This is the preferred mode.

DC Offset: If the OEM source unit has no REM signal output, you can choose DC Offset (Meanwhile, Input select switch to SPK IN mode), DC Offset can turn on/off amplifier by detecting the 6V DC Offset from the OEM source unit terminal.

AUDIO: Audio mode can turn ON/OFF the amplifier by detecting the audio signal from the source unit. Note: If the volume is too Low, The amp may fail to turn on. Check if the source unit volume is properly set.



8: GAIN

The level control will match the amplifiers sensitivity to the source units signal voltage. The Operating range is 200mV minimum to 5V maximum. This is NOT a volume control!

9: HPF

This control is used to set the HPF crossover frequency for the front amplifier channel. The frequency is adjustable between OFF and 200Hz.

10: PROTECT / PWR

The red PROTECT LED will light up and will be flashing if there is a fault presented to the amplifier. Please disconnect the amplifier and resolve the fault before reconnecting the amplifier.

The green PWR LED will light up when the amplifier is powered on and working correctly.

11: REMOTE

Connect the remote controller to control the Subwoofer amplifier volume from the driver seat location, for ease of adjustment during playing.

12: SUBSONIC

This control can filter out unwanted low frequency from 1 0Hz (OFF) to 50Hz. This function will increase the power handling of your woofers.

13: LPF

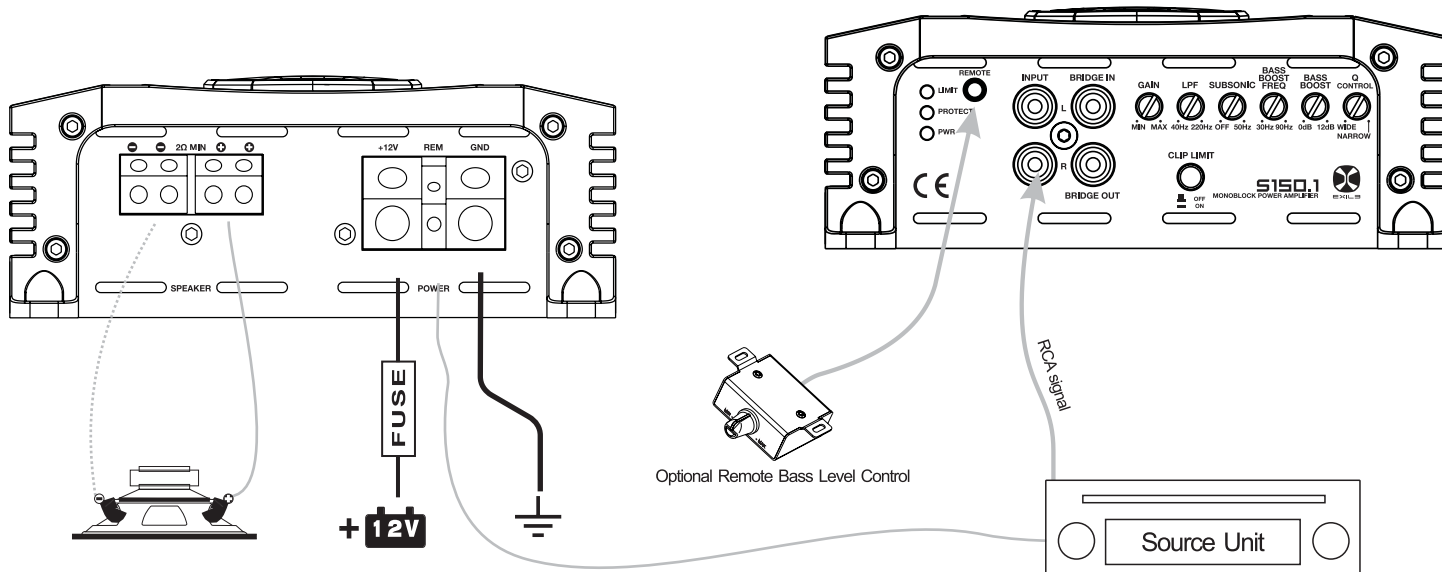
This control is used to select the desired low pass x-over frequency. The frequency can be adjusted from 40Hz to 220Hz.

14: BASS BOOST

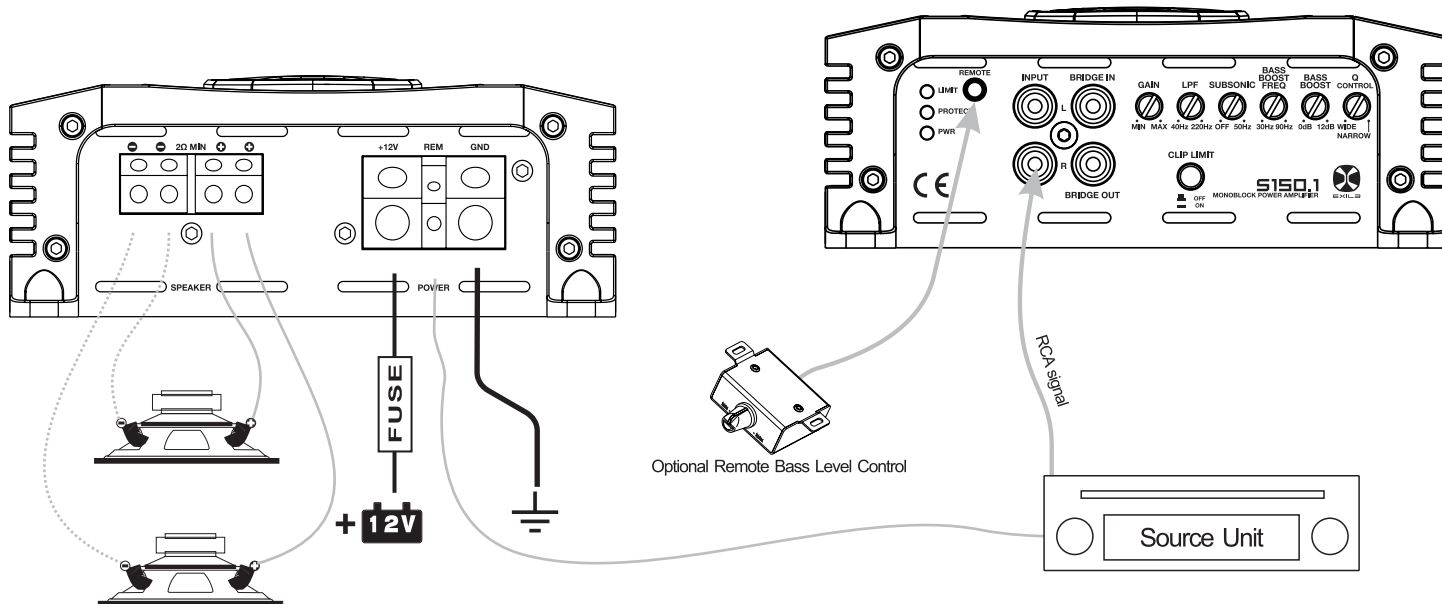
This switch adjusts the boost level of the bass boost center frequency. It can be adjusted from 0 to 6dB to 12dB.

WIRING DIAGRAMS

MONO AMPLIFIER WIRING (ONE WOOFER LOAD)

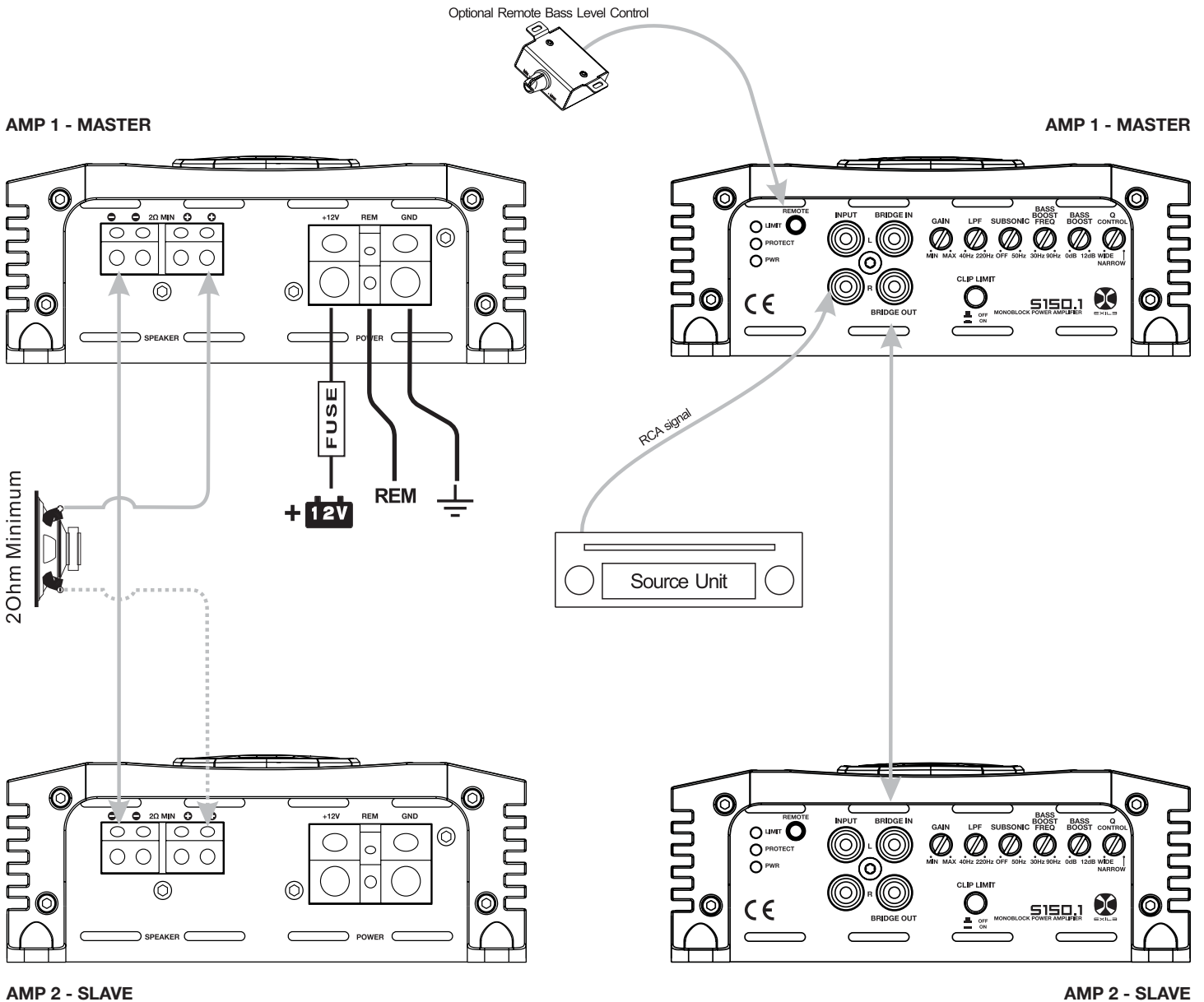


MONO AMPLIFIER WIRING (TWO WOOFER LOAD)



WIRING DIAGRAMS

DUAL AMPLIFIER BRIDGE MODE



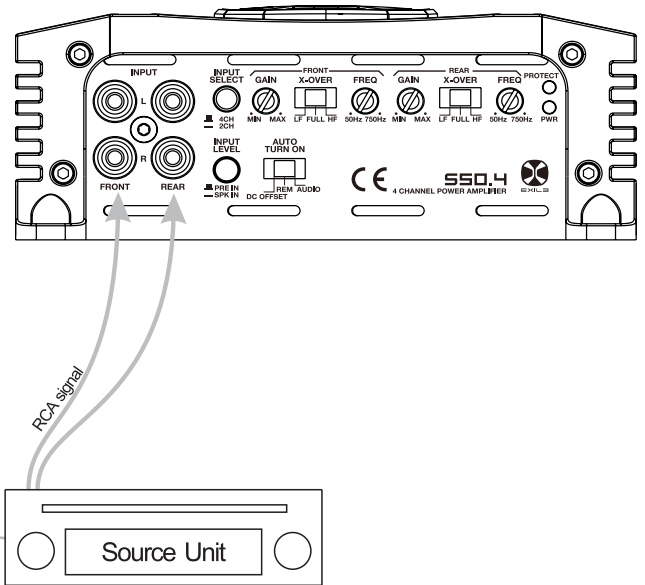
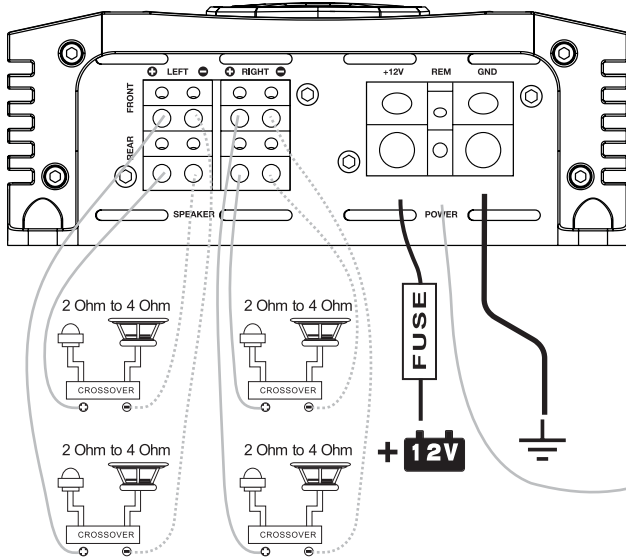
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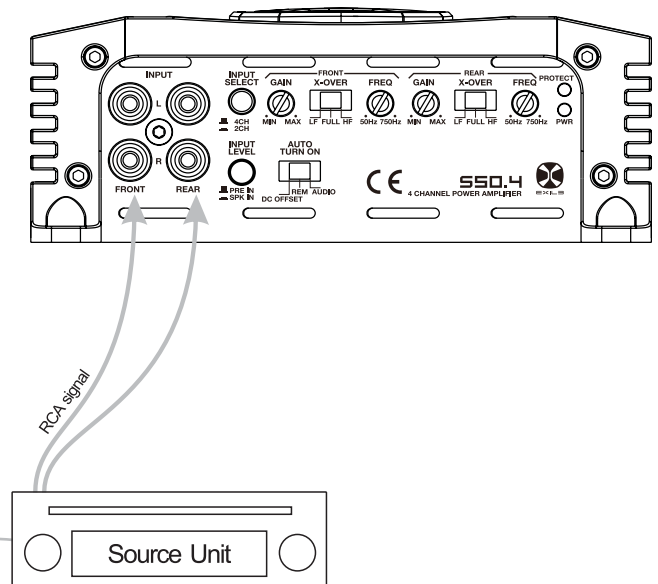
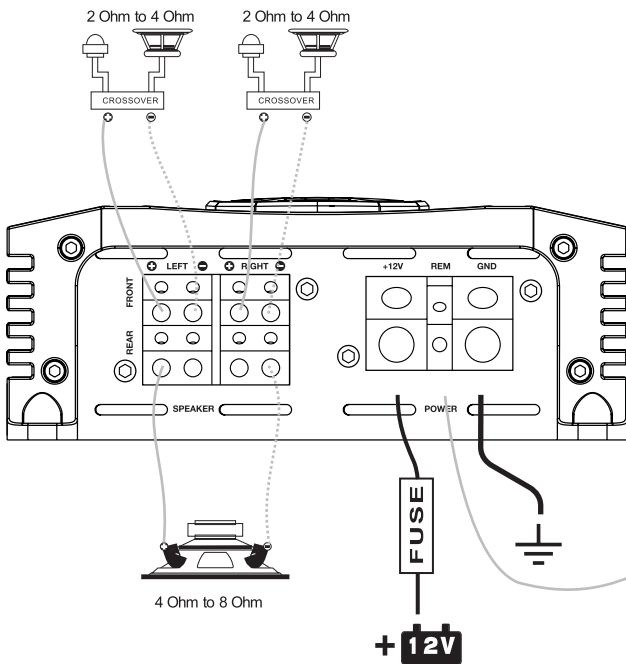
When bridging two amplifiers you should use same model amplifiers. Please make sure the negative speaker terminal of two amplifiers are connected by the same gauge cables as the positive terminal being used. **DO NOT** connect any signal cables to the input RCA jacks when bridged as slave unit. All the functions will be disabled on slave amplifier when bridged. It will be adjusted by the master amplifier.

WIRING DIAGRAMS

S50.4 FOUR CHANNEL MODE

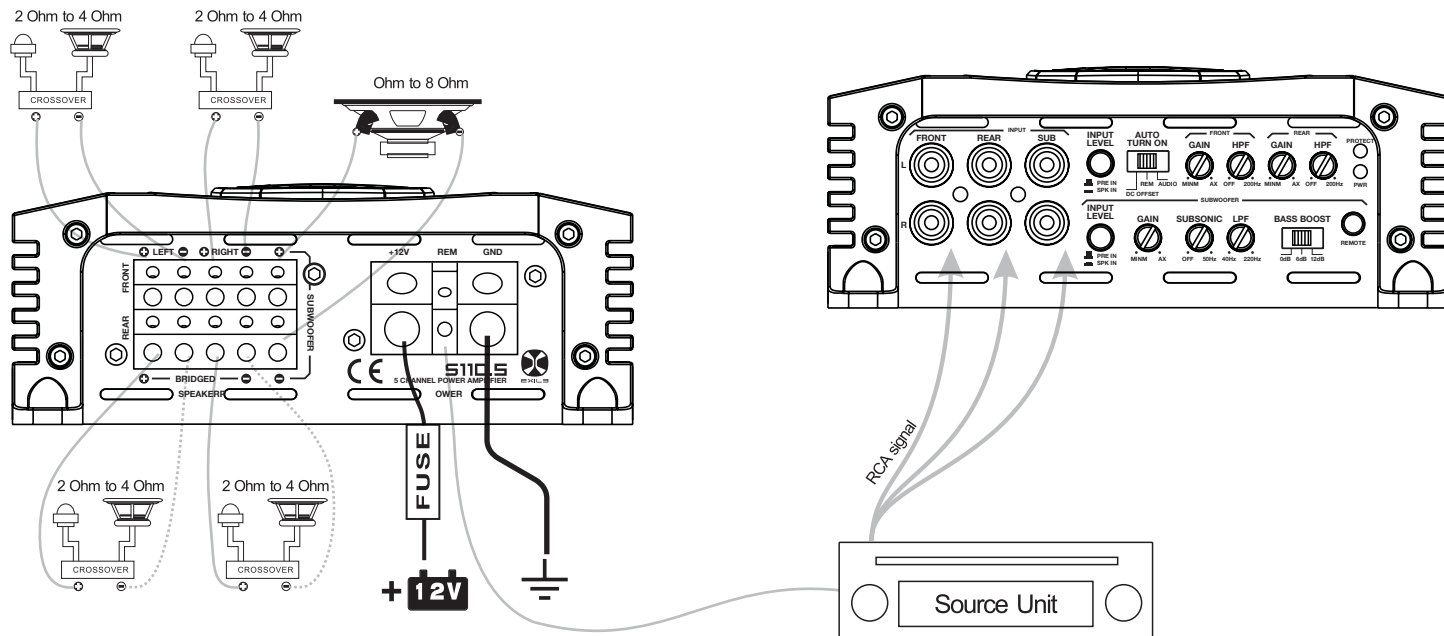


S50.4 THREE CHANNEL MODE

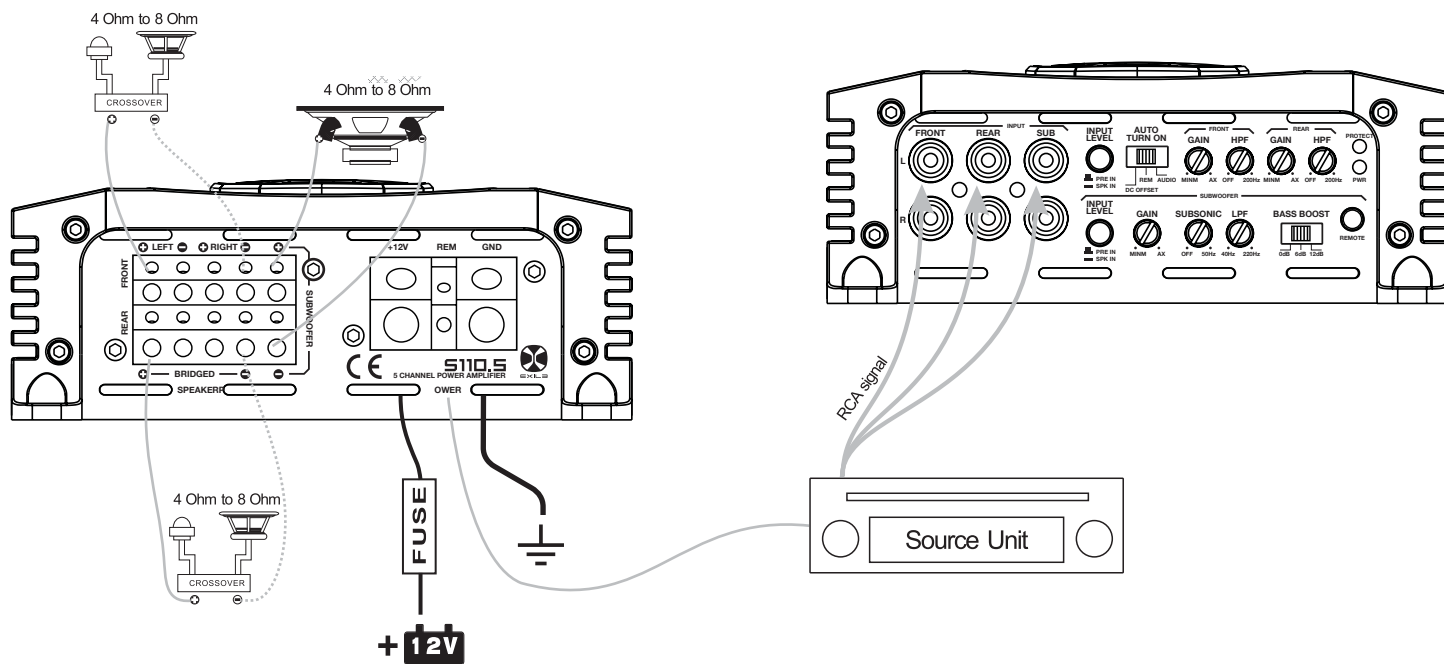


WIRING DIAGRAMS

S110.5 FIVE CHANNEL MODE



S110.5 THREE CHANNEL MODE





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in the USA. Made in China



LIMITED WARRANTY

Exile warrants this product to be free from defects in material and workmanship under normal use for a period of one year from date of original purchase when purchased from an Authorized Exile Dealer. If the product is labeled B Stock/Refurbished and purchased from an Authorized Exile Dealer, it is warranted for 90 days from date of purchase, regardless of place of installation. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction during the warranty period, Exile 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. This warranty is only valid within the USA, for warranties outside of the USA consult the appropriate international distributor.