



# MEMPHIS AUDIO LL6SA 6 Channel Line Level Adapter Instruction Manual

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**MEMPHIS AUDIO LL6SA 6 Channel Line Level Adapter**



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.

Factory OEM integration has never been easier. The LL6SA allows you to add multiple amplifiers and signal processors while retaining your factory head unit and volume controls. The LL6SA's summing feature decodes complicated factory signals with built-in crossovers and converts them into a flawless preamp signal.

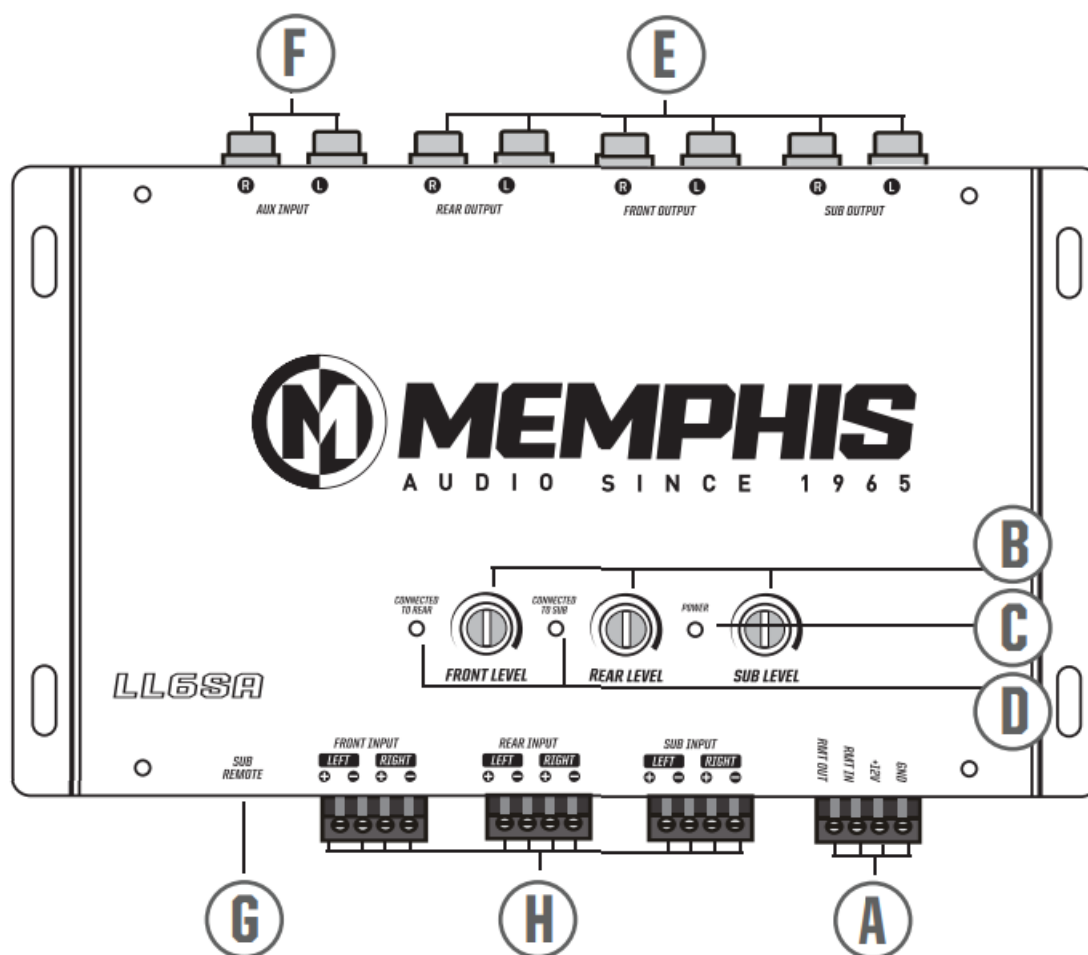
## Features

- Textured Aluminum Heatsink
- Six Inputs & Outputs
- Max Output 9.5V
- 100 Watts of speaker level input at 4Ω
- Signal sense and manual turn on modes
- Remote turn on output
- Auto-Summing: Takes 2 channels of input and can send 6 channels of output without using jumpers

## Specifications

- MAXIMUM INPUT: 100 Watts
- MAXIMUM OUTPUT VOLTAGE: 9.5v
- THD%: 0.01%
- INPUT IMPEDANCE: >20K Ohms
- OUTPUT IMPEDANCE: 50 Ohms
- FREQUENCY RESPONSE +/-0.5dB: 20Hz – 20kHz
- SIGNAL TO NOISE: >98dB
- DIMENSIONS (W X H X D): 9.25" X 6.5" X 1.5"

## Operation and Function



- **A. POWER CONNECTIONS**

These connections are for 12V+ input power, chassis ground and remote turn-on. Use a minimum of 18 AWG wire for power and ground connections. Power wire should be protected with a 1 amp fuse.

- **B. INPUT LEVEL ADJUSTMENTS**

These controls are used to match the input level of your LL6SA with the output level of your source unit

- **C. POWER INDICATOR**

This LED indicates your LL6SA is powered ON

- **D. SUMMING INDICATORS**

These LEDs indicate when a channel is being summed with, or connected to the main channel.

- **E. RCA OUTPUTS**

These low-level output jacks provide a full range signal to your amplifier(s)

- **F. AUX INPUT**

This RCA input jack allows you to connect an additional source such as a phone to the LL6SA

- **G. REMOTE CONTROL**

The indicator light on the remote control will light up when the power is on. The self-lock switch is for source selection. Push the self-lock switch to switch between the main (head unit) and the AUX input on the LL6SA. Rotate the control knob on the remote to adjust the output level of the sub channel on the LL6SA

- **H. High Level Inputs**

Each terminal block allows for up to 100w of speaker level signal to be input from the source unit. All three are full-range inputs.

## Installation

Memphis Audio always recommends any installation be performed by an authorized Memphis Audio dealer. If you elect to perform your own installation, please read the manual very carefully. Failure to do so may compromise the integrity of this product, your automobile, and possibly void the product warranty. Before securing the LL6SA, inspect the mounting location to ensure you do not drill into or damage any electrical, hydraulic, fluid or fuel lines.

## **Power Supply Connections**

Use conventional copper-stranded wire for all connections. Finish all the ends wire at the amp and vehicle connections with the proper size terminals. Poorly made connections or frayed or loose wires may generate excessive heat, short circuit and potentially lead to system failure.

### **POWER CONNECTIONS (+12V & GND)**

- The +12V terminal should be connected to the POSITIVE +12V power using a 1 A fuse between the power source and the LL6SA.
- The GND terminal should be connected to the chassis ground and should have a ring terminal crimped and soldered and should be connected to the chassis of the vehicle in an area free of debris. Paint should be stripped and cleaned for a sound connection.

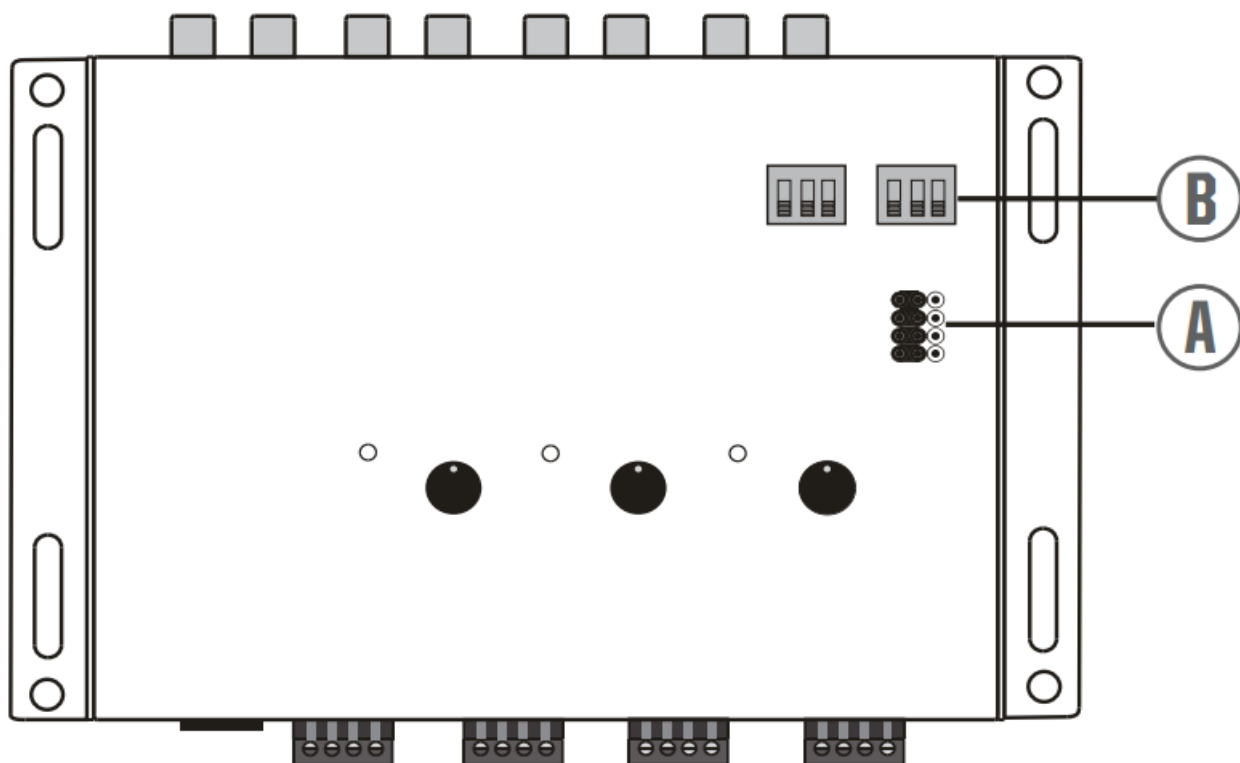
### **REMOTE IN**

The LL6SA is turned on by applying +12V DC to this terminal. Connect the REMOTE terminal to the lead or power antenna wire from the head unit. If the head unit doesn't provide a remote turn-on, you can use the accessory terminal in the car's fuse block. Using this method will turn off the LL6SA with the vehicle's ignition key regardless of whether the head unit is on or off.

### **REMOTE OUT**

The LL6SA is equipped with a signal sensing circuit that is designed to detect a signal on its input to both turns on the LL6SA and provide a +12V output signal to turn on an after-market amplifier. Connect this terminal to the remote terminal (turn on lead) of your amplifier. If more than one amplifier is being used with the turn-on output of this unit, a relay must be used.

## **Internal Switch/Jumper Options**



## Isolation Jumper

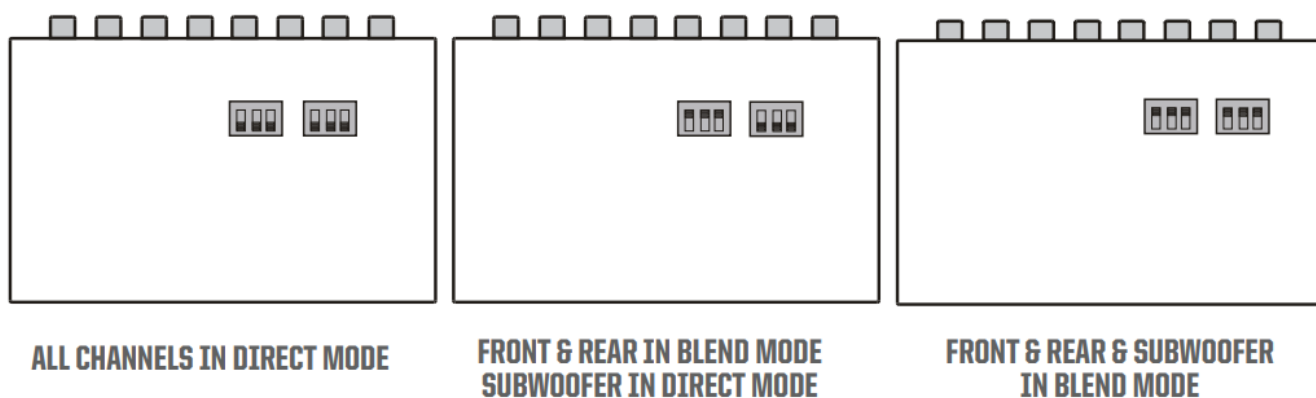
Occasionally alternator noise may appear in a system because the source unit and amplifier are using different grounding schemes. To help in this situation, we have provided alternative grounding connections. Make sure your system is turned OFF before you move these jumpers. The LL6SA is shipped in the isolated position.

You have 3 options jumper selections:

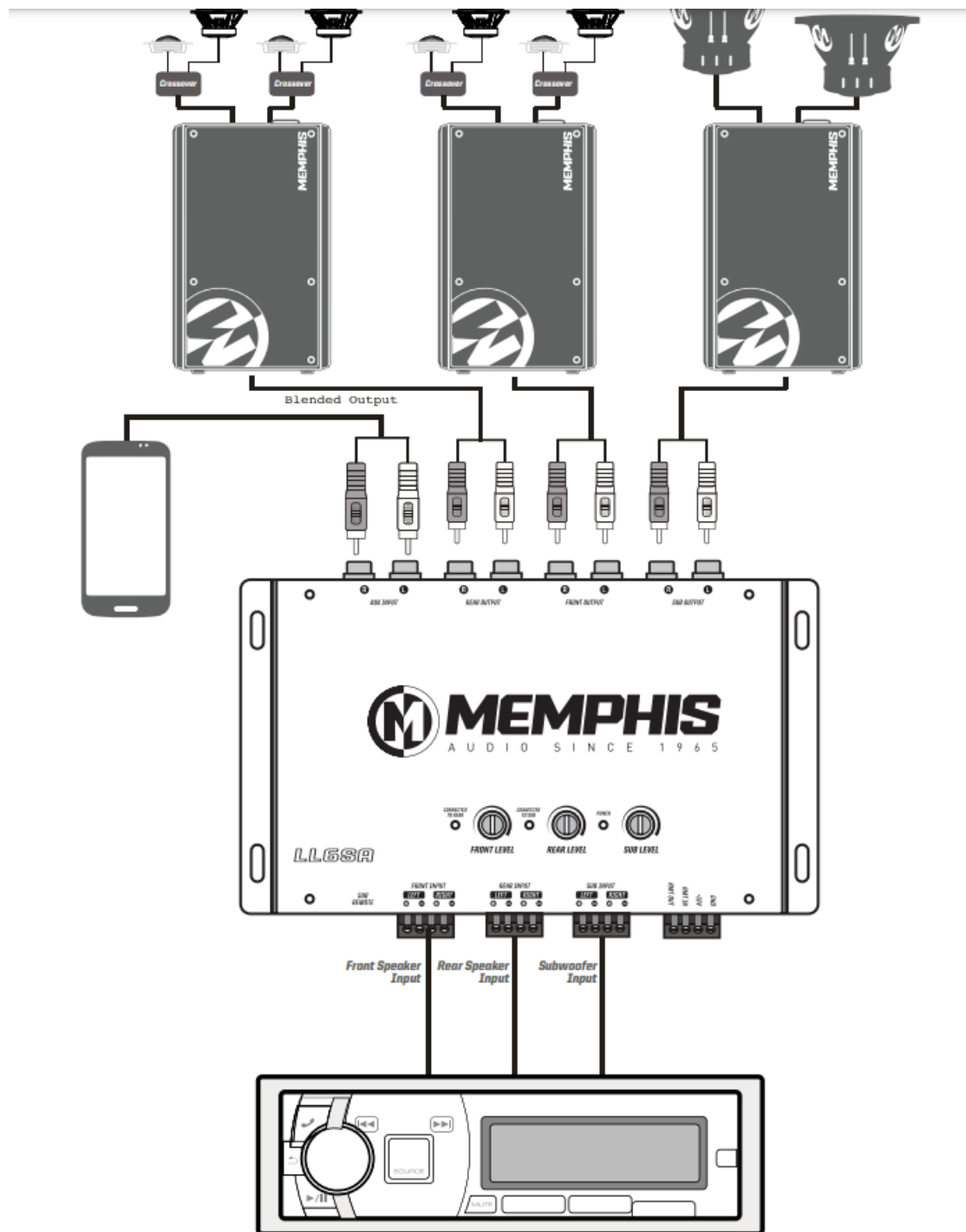
1. Isolated
2. 200 ohm
3. Ground

## Blending Switch:

The LL6SA contains switches that will allow you to sum selected channels into the main channels. This is especially useful for factory-installed systems with actively crossed-over speaker systems. The switches allow you to select which input signals will be summed into the Main outputs. When the switch is in the blended (Summed) position, there will also be a corresponding green indicator light on the front of the LL6SA. The shipped-from-the-factory setting is in the direct position.



## Example System



## Warranty

This product has a one-year warranty from the date of purchase for defects in material or workmanship. 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. 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.

## What is NOT covered under the 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 an 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 products 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.

## Documents / Resources



[MEMPHIS AUDIO LL6SA 6 Channel Line Level Adapter](#) [pdf] Instruction Manual  
 LL6SA, 6 Channel Line Level Adapter, LL6SA 6 Channel Line Level Adapter, Line Level Adapter, Level Adapter, Adapter