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# KEY REASONS TO BUY THE



## Six Channel Line Output Converter with AccuBASS™

### What is the LC7i?

The LC7i is a 6-channel line output converter that allows users to get great sound from factory installed radios. Simply put, it converts the 'speaker level' signal that comes from the factory installed audio system to a signal that's optimized for aftermarket amplifiers. The LC7i makes adding power and speakers to a factory system easy! The LC7i incorporates AccuBASS™, a patent pending feature that cures the biggest shortfall of factory sound systems – lack of bass at high volumes.

### Who is the Customer?

**Anyone who wants to Make Good Sound Great** while keeping factory controls and features. Swapping a factory radio for a new unit is becoming a thing of the past with factory audio being a more integral part of the car. Convenience features, connectivity, and network functionality are built into many factory systems making radio swaps difficult, expensive, or even impossible! The LC7i allows you to create a high performance audio system while keeping the factory radio and all functions intact!

**Anyone who wants to add great bass to a factory system** Most factory systems roll off the bass response when you turn the volume up. This creates weak sound at real world volume levels. The LC7i uses active line output conversion circuitry and AccuBASS™ to give rock solid bass at all volume levels.



LC7i shown with optional ACR-1 remote



When installed by  
Authorized AudioControl dealer

# AudioControl®

Making Good Sound Great™

## Key Features and Benefits of the LC7i:

### Six channel, high power, active speaker level processing

**Benefit** – Get amazing sound from factory source units while maintaining factory controls and features. Active line output conversion assures the highest quality signal is sent to the amplifiers, and leaves passive converters in the dust. Works with factory systems rated up to **400 watts** per channel!

### AccuBASS™ (patent pending)

**Benefit** – Most factory systems roll off the bass response at high volume levels, leaving the system sounding thin and weak. AccuBASS™ corrects the roll off that occurs at high volume levels, delivering killer bass at all volumes!

### High output, low noise preamplifier

**Benefit** – The LC7i will feed up to 8.5 volts of high output signal to amplifiers, extracting maximum performance. It's more than 4x the output of a typical aftermarket head unit. Output level controls allow fine-tuning for optimum sound quality and performance.

### Internal channel summing

**Benefit** – Some factory systems have amplified outputs that use active crossover networks. Internal channel summing eliminates the factory crossovers. This feature is selectable. If summing is not used, the LC7i functions as six separate channels allowing front to rear fading with subwoofer.

### GTO™ Great Turn On system

**Benefit** – GTO™ is a system that automatically turns on the LC7i when it detects the presence of signal on the main input. This eliminates the hunt for a turn on wire for the LC7i and amplifiers. Coupled with GTO™ is a turn on output that is designed to turn on aftermarket amplifiers.

### Compact chassis

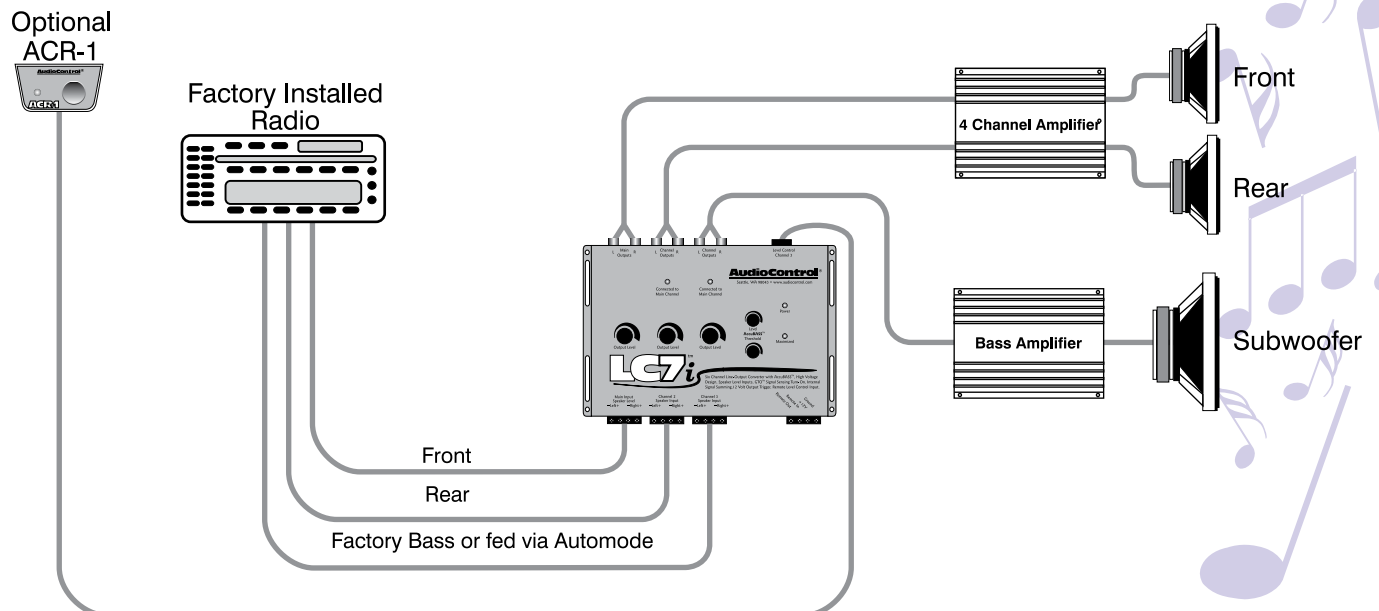
**Benefit** – The LC7i is in a very compact chassis, allowing placement in more convenient areas within the vehicle, saving time and money during the installation.

### Remote Level Control

**Benefit** – Optional ACR-1 remote level control allows level adjustment of Channel 3 outputs.

## Basic Factory Upgrade System

**If the factory radio doesn't have a bass output, the LC7i will provide it via Automode.**



# Key Features of the **LC7i**

6 RCA preamp channels output up to 8.5 volts

Summing indicators show which channels are summed to the main output. The default position is "off".

Input for optional ACR-1 remote level control. Allows level adjustment of channel 3 outputs.

Optional **ACR-1**

When the LC7i output levels are properly set, this light should flicker occasionally, showing that you are feeding maximum clean voltage to your amplifiers

AccuBASS™ threshold and level controls to counteract factory bass roll off

Power, Ground, Remote In, and Remote Out connections. With GTO on (default position) you do not have to feed a remote in connection to the LC7i; However, you should always use the remote out to activate the amplifiers in the system.

Active high level inputs accept output of any factory radio or amplifier rated up to 400 watts per channel!

Individual output levels for each pair of channels

Compact, solid, tank-like chassis! Made in USA

Output Level

Channel 1 Output

Channel 2 Output

Channel 3 Output

Level AccuBASS Threshold

Master Bass

AudioControl

Seattle, WA 98127 • www.audiocontrol.com

6-Channel Line-Output Converter with AccuBASS™, Better Level Indicators, GTO™ Signal Summing, Turb-Clp, Inverted Signal Summing, Remote Level Control Input

Channel 1

Channel 2

Channel 3

Channel 4

Channel 5

Channel 6

Channel 1

Channel 2

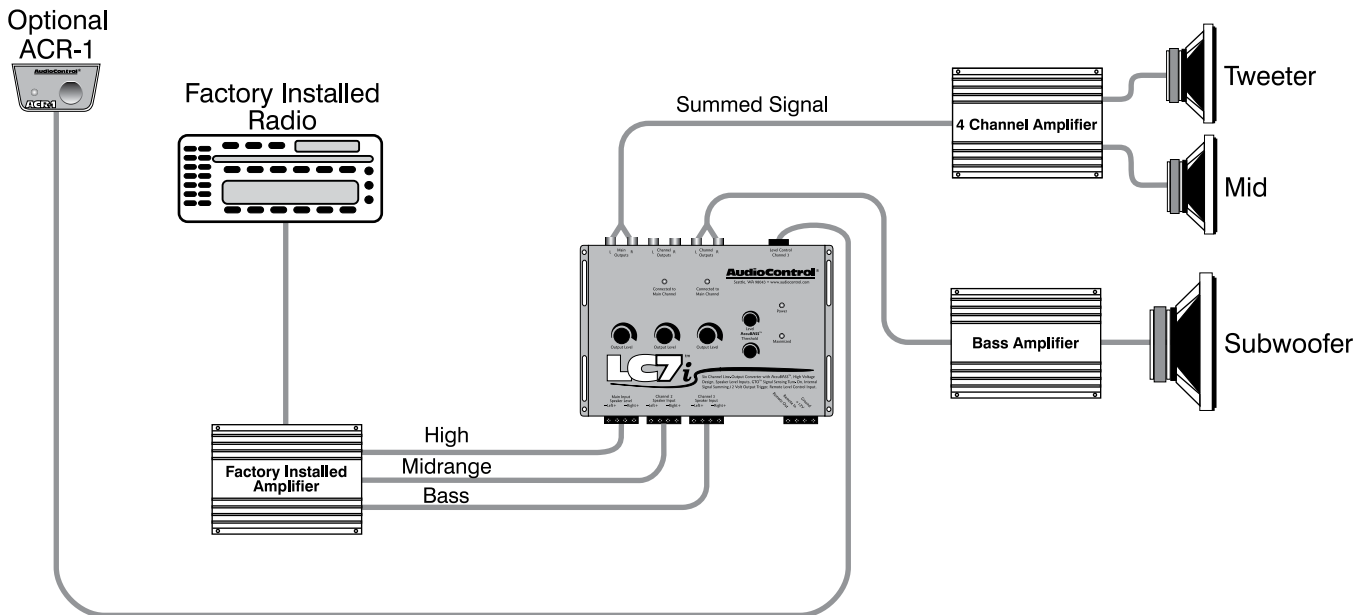
Channel 3

Channel 4

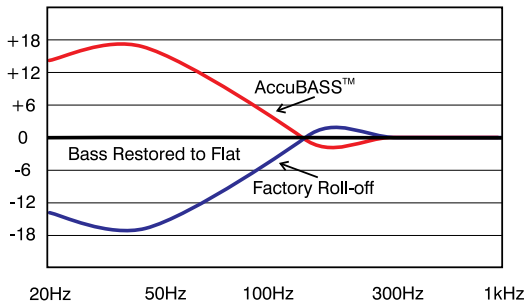
Channel 5

Channel 6

## Upgrade for Factory System with Remote Mounted Factory Amplifier



## The AudioControl AccuBASS™ (patent pending) circuit

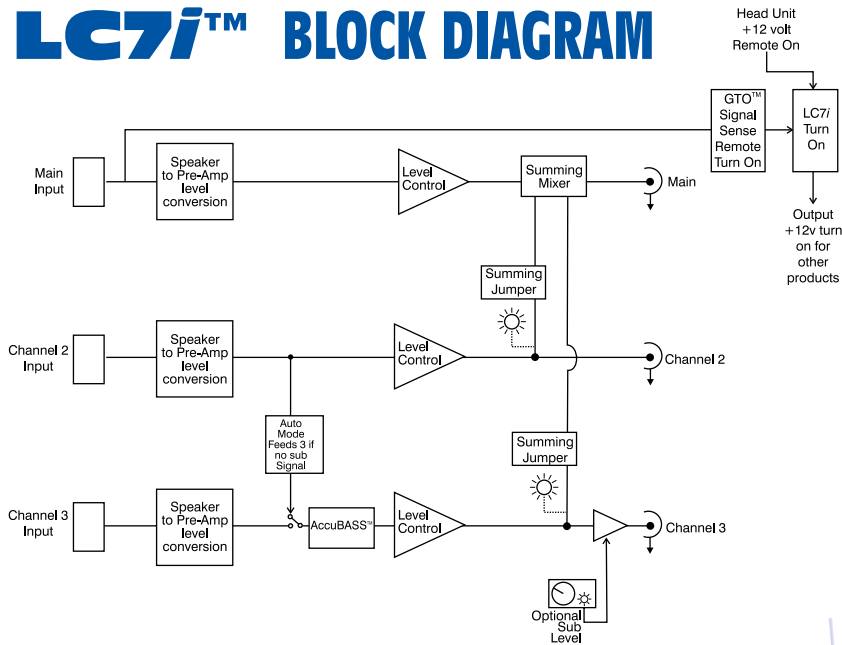


Factory sound systems have weak speakers and amplifiers contributing to poor bass response. To protect speakers from distorting or being destroyed, car makers often limit the bass response that is produced at higher volumes. This robs you of the bass that was supposed to be in the music. AudioControl has developed the patent pending AccuBASS™ circuit to fix the limitation. AccuBASS™ automatically engages at a preset volume level and reverses the factory roll-off to give you the bass the music was designed to have. You get rock solid bass at all volume levels. Crank it up!

## Making Good Sound Great!

AudioControl looks at the process of line output conversion a little differently. Passive LOCs have been used for years yet they add distortion, reduce signal and roll off bass. In short...they sound bad! AudioControl's Active, High Impedance Input stage results in ruler-flat frequency response so you get rock solid bass without the signal roll-off you get with passive LOCs. The AudioControl LC7i is also a low distortion (typically <.01%) 8.5-volt line driver as well as a line converter. You will have sound quality every bit as good as an aftermarket head unit while keeping the convenience and features of the factory installed source unit. In short, the LC7i gives you the brilliant sound quality that AudioControl has been providing for over 35 years.

## LC7i™ BLOCK DIAGRAM



## LC7i™ SPECIFICATIONS

All specifications are measured at 14.4 VDC (standard automotive voltage). As technology advances, AudioControl reserves the right to change our specifications, like our Pacific Northwest weather although we are working on it.

Maximum speaker-level input .....	400 watts per channel at 4 ohms
Maximum output level .....	8.5Vrms
Output gain .....	+/-15 dB
Frequency response .....	10Hz-22kHz
Total harmonic distortion .....	0.01%
Input Impedance .....	20 Kohms
Output Impedance .....	150 ohms
Power supply .....	High headroom PWM switching
Power draw .....	350mA
Recommended fuse rating .....	2 Amps
Remote trigger max output current .....	1 Amp
Size .....	7.5"W x 4.72"D x 1.22"H
Weight .....	3 lbs
Patent .....	Pending
Country of Origin .....	USA

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This literature was conceived, designed, and written under the protective canopy of the lush, green, misty rain forest on a drizzly, gray overcast day at our home in the Pacific Northwest.

# AudioControl®

Making Good Sound Great™

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