

OEM
Interface

KEY REASONS TO BUY THE

DQ-61™

Performance Sound Processor For Factory Installed Audio Systems

Key Features of the DQ-61

- Signal Delay to bring the speakers into acoustical alignment.
- AccuBASS® (patent pending) to correct for bass roll-off in OEM systems.
- Independent Front, Rear, and Subwoofer equalization.
- Six speaker level input channels with GTO Signal Sensing.
- Internal Channel Summing to bypass factory crossovers.

Who Will Love the DQ-61?

Signal Delay

Because of speaker placement limitations and the seating positions in a car, it is almost always the case that the driver of the vehicle is in an incorrect acoustic alignment. This exists because the driver is close to the left side speakers and further away from the right side speakers. Thus, the sound from the left side arrives much sooner than the right side. By delaying the appropriate speakers for just a few milliseconds, the DQ-61 is able to allow the signal to arrive at the same time putting the driver in perfect acoustical alignment.

AccuBASS®

To protect OEM speakers, car manufactures often limit the bass frequencies at higher volumes. AudioControl has developed a patent pending circuit called AccuBASS® circuit to compensate for this factory roll-off. The AccuBASS® circuit automatically engages at a preset volume level and reverses the factory bass roll-off to give you the music the way the artist intended it to be heard.

Speaker Level Inputs with Selectable Summing

The DQ-61 is equipped with six high-impedance speaker level inputs that allow it to accept amplified signals from any factory installed amplifier, even Bose. Unlike an inexpensive passive line output converter, the DQ-61 offers the highest possible sound quality and performance.

Equalization for Maximum Control and Performance

Like all of AudioControl's high performance signal processors, the DQ-61 is designed to offer maximum audio performance and control. All six output channels are equipped with highly accurate graphic equalization filters. This equalization allows for the taming of the most demanding car acoustical challenges or correction of factory radio response curves.

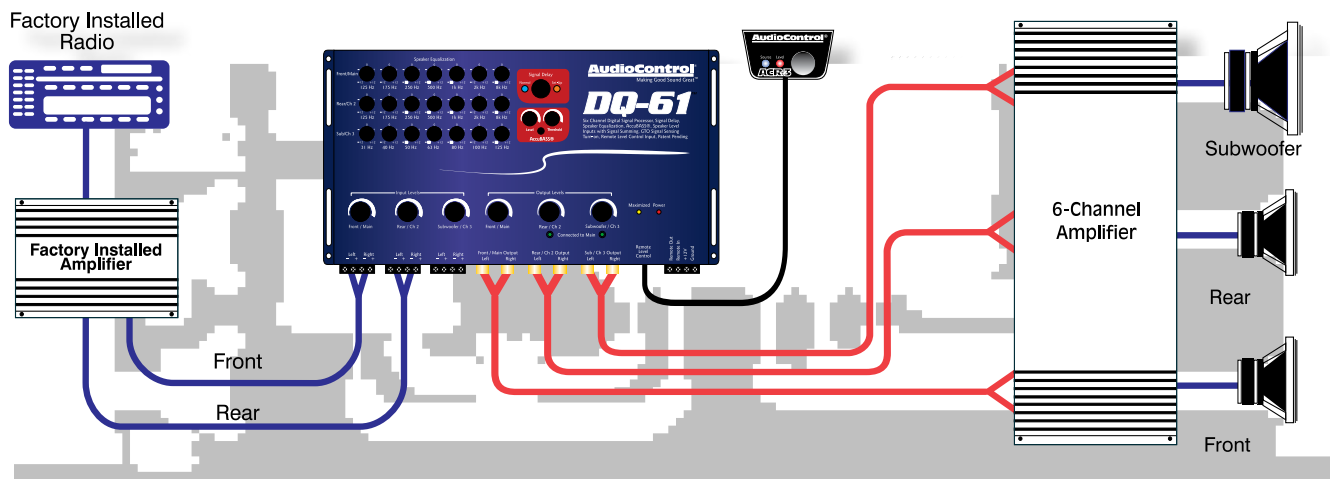
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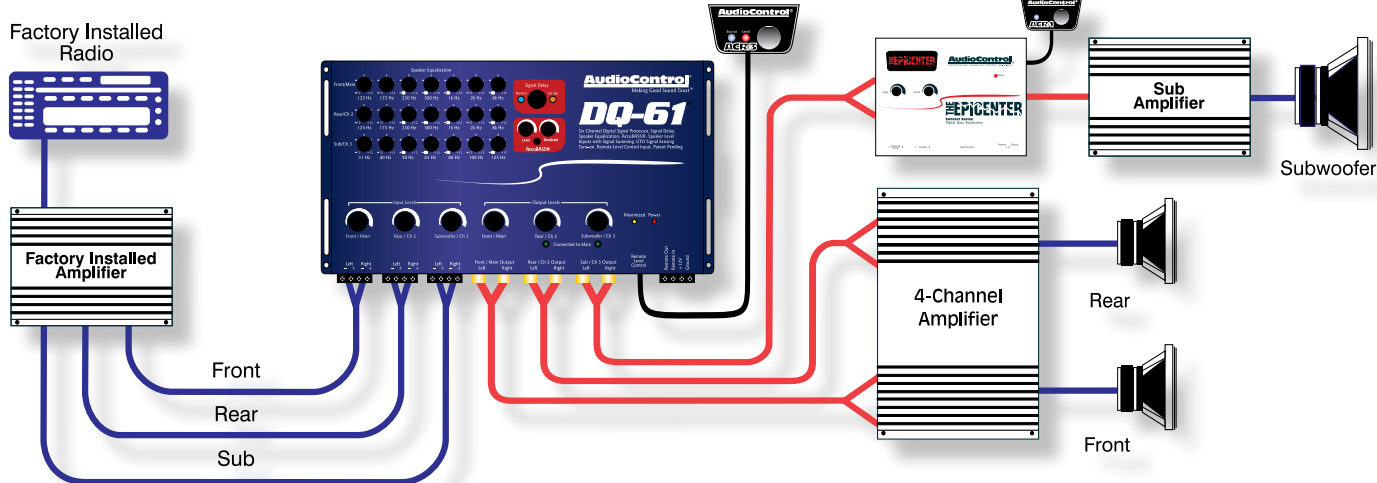


System Diagrams

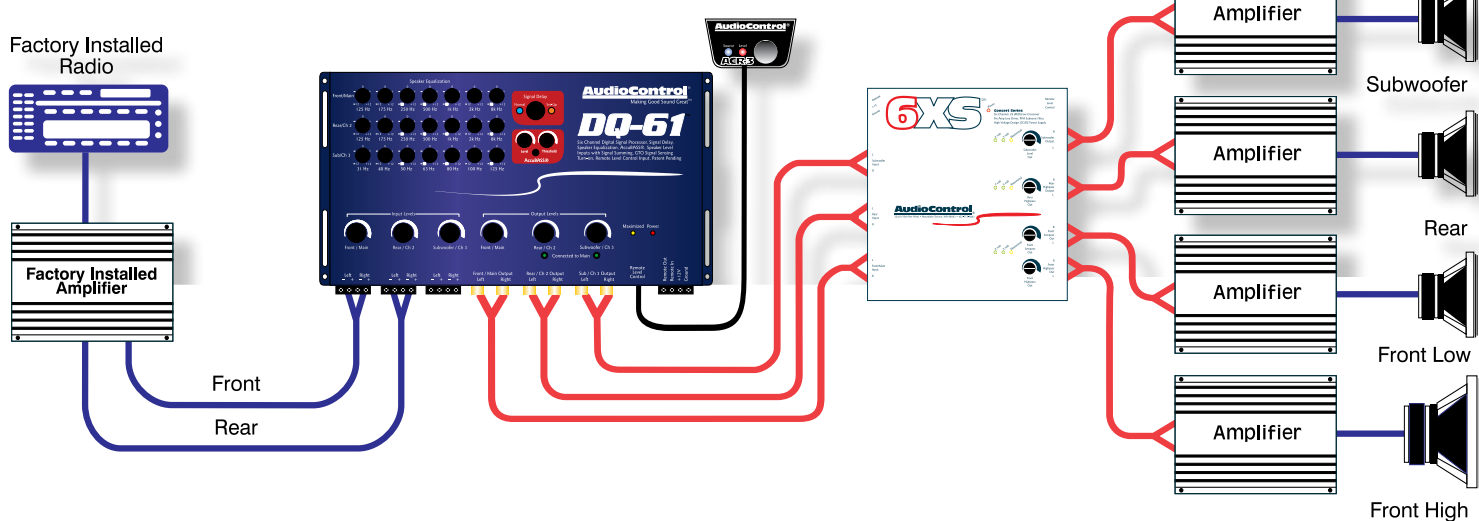
System #1 - Typical DQ-61 Installation



System #2 - DQ-61 Installed with The Epicenter



System #3 - DQ-61 installed with a 6XS



DQ-61 SALES NOTE

AudioControl®

Key Features of the **DQ-61™** Performance Signal Processor

AccuBASS® - AccuBass

ACR3 System Control Knob -

Equalization Controls -

Separate Front, Rear and Subwoofer equalizers for complete sound control.

Signal Delay Mode - Allows you to put the speakers in acoustical alignment.

Level Matching Controls -

Independent input and output level controls allow you to maximize and balance the signal level that comes from your source to your amplifiers.



Speaker Level Inputs - High impedance speaker level inputs allow you to use amplified signals from any factory installed system.

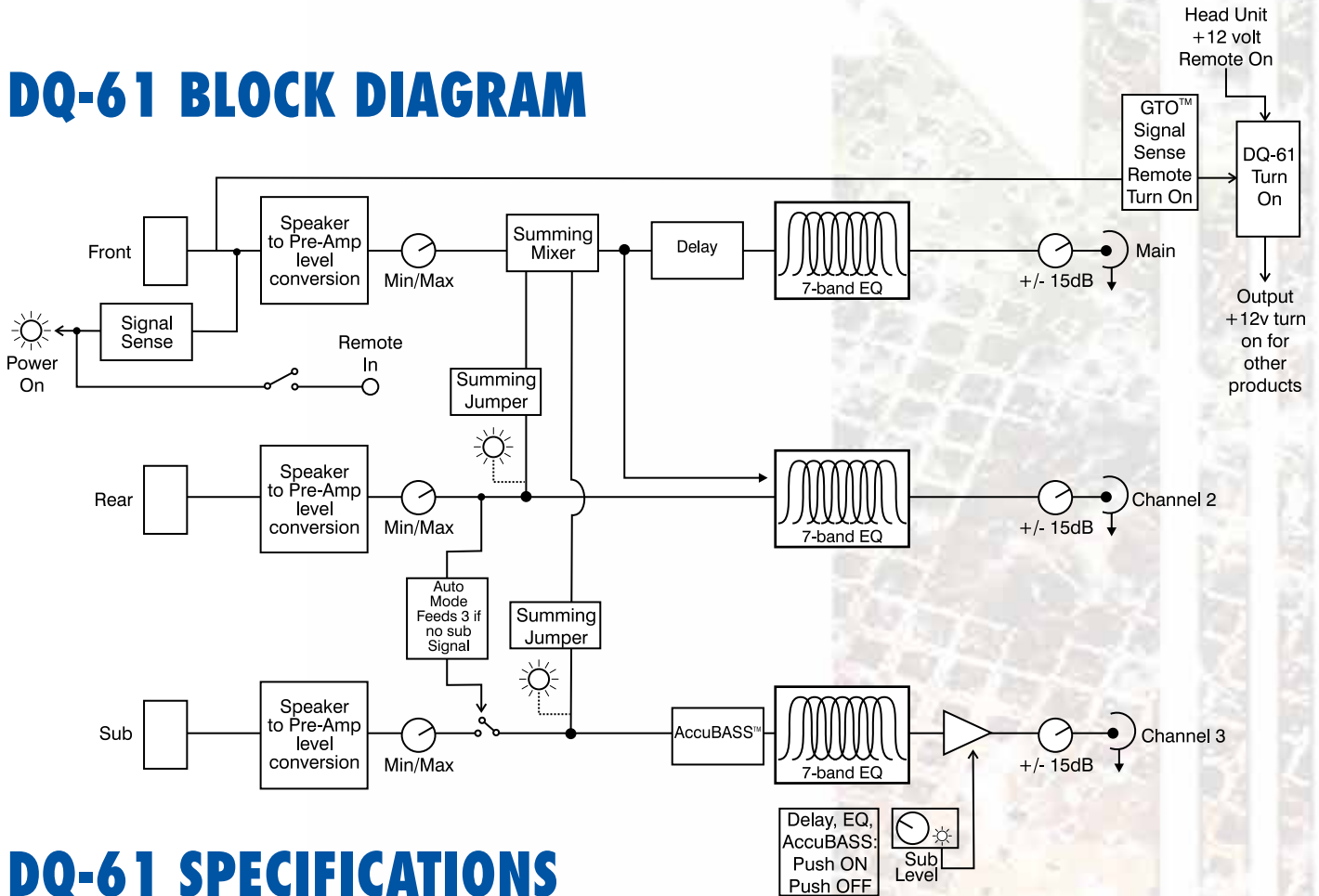
6 Channel Preamp Outputs - RCA output to amplifier up to a 7.5 Volt Line Drive.

Summing - LEDs let you know which channels are summed into the main channel.

Why do you need Signal Delay (or an Equalizer for that matter)

Putting the driver in perfect acoustical alignment definitely has its challenges in a vehicle. In home audio it is generally easy to just move a speaker forward or backward or left to right to help with acoustical alignment. In a vehicle we are typically stuck with the speaker locations that the vehicle manufacturer has supplied us with and this usually creates a whole slew of issues when you add amplifier power, new speakers, and subwoofers. This is why signal delay and equalization are important but even more important is the proper set-up. There are a couple of different ways to properly set up the AudioControl DQ-61. You could always use the old fashioned way and just use your ears, you could measure the distance between the speakers and do the math or you could step into the 21st century and download our cool new app at AudioControl.com and let it help you do the work.

DQ-61 BLOCK DIAGRAM



DQ-61 SPECIFICATIONS

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

Maximum output level	7.5Vrms
Output gain	+/-12 dB
Frequency response	10Hz-22kHz
Total harmonic distortion	0.01%
Input Impedance	20 Kohms
Equalization Frequencies	
Front/Rear	125Hz, 175Hz, 250Hz, 500Hz, 1kHz, 2kHz, 8kHz
Sub Output	31.Hz, 40Hz, 50Hz, 63Hz, 80Hz, 100Hz, 125Hz
Signal Delay	
Left/Right Max Delay	10ms
Front/Sub Max Delay	35ms
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	8.75"W x 5"D x 1.25"
Weight	3 lbs

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