LC2i PRO™

AudioControl®

Making Good Sound Great™

ACR-1 LEVEL CONTROL INCLUDED

TWO CHANNEL LINE OUTPUT CONVERTER
WITH ACCUBASS® AND IMPEDENCE MATCHING

FACTORY SYSTEM UPGRADE

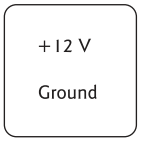
LC2i PRO

TWO CHANNEL LINE OUTPUT CONVERTER WITH ACCUBASS® AND IMPEDENCE MATCHING

Quick Start

1. LC2i PRO is active and **REQUIRES CONSTANT +12V POWER**
2. Pick a suitable mounting location that will provide access to the controls and connections. Protect the LC2i PRO from heat, moisture, and dirt.
3. Use the integrated mounting brackets to mount the LC2i PRO.
4. Before drilling holes, take every precaution to prevent damage to fuel lines, power and other electrical wiring, hydraulic brake lines, and other systems that might comprimise vehicle safety.
5. When making conections, designate red RCA plugs as right, and designate white, black, or gray plugs as left.
6. Connect the +12V input terminal of the unit to the +12V terminal on the vehicle battery (or distribution block) using 16 to 14 AWG.
7. Connect the Ground terminal of the unit to the Ground/Negative terminal of the battery (or distribution block) using the same gauge wire as the +12V power wire.
8. For +12V remote turn on the Trigger Mode switch must be set to "Rmt In". Connect the Remote In (Rmt In) terminal of the unit to a remote turn-on switch. Alternately, use GTO™ Signal Sense or Audio Sense to trigger the unit on without a remote wire.
9. Connect the Speaker Level Inputs to the left and right output of your factory head unit or amplifier.
10. Run the ACR-1 remote wire to the front of your vehicle.
11. Adjust the input gain using the Main and Bass Output Level knobs.
12. Connect the Main and/or Bass Output RCAs to your aftermarket amplifier.
13. Adjust AccuBASS using the AccuBASS Threshold and Level knobs.
14. **Enjoy the drive!**

Power



As awesome as it is that the LC2i PRO can be turned on 3 different ways, you still very much need to connect the LC2i PRO to constant +12V power and ground.

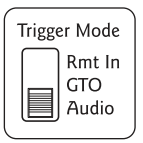
Maybe one day science will invent a way to electrically power devices via the sweet guitar solo of Jimi Hendrix, but until then, we need +12V power and ground.

GTO Signal Sense



DC offset is a high falutin technical term that means the LC2i PRO can sense when the head unit is on, not necessarily when audio is being sent to the LC2i PRO. Use GTO Signal Sense mode when your factory sound system outputs a DC offset when it is on.

Audio Sense



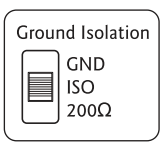
When this mode is selected, the LC2i PRO will ONLY turn on when you start playing a source from the head unit. Whether it be the radio, CD player or streaming via Bluetooth from a mobile device. If you turn the head unit on, but DON'T play audio, the LC2i PRO will not turn on.

Remote Input



This is the traditional way to turn on the LC2i PRO and gives you more control of exactly when the unit will turn on. Most common places to connect the remote input are from the ignition of the vehicle, fuse box, or some other 12V source (such as a cigarette lighter).

Ground Isolation Switch



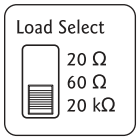
This handy switch allows the user to change how the LC2i PRO is grounded. Sometimes when installing car audio equipment, "ground buzz" or "alternator whine" will creep into the audio path, wreaking havoc on your listening experience. There are 3 positions. GND, ISO, and 200 ohms. The unit ships from the factory in the ISO position.

GND - Power ground and audio ground are tied together.

ISO - Power ground and audio ground are separate.

200Ω - There is 200 ohms of resistance between power ground and audio ground.

Load Selection Switch



The LC2i PRO is designed to present NO load to the output of the factory amp, which can make some factory amps upset and stop passing audio. The Load Selection feature tricks the factory amp in to detecting a speaker load so it will continue to pass audio.

20 Ω - Best suited for late model Dodge/Chrysler/Jeep/Ram/Fiat vehicles equipped with OEM base sound system. (no separate factory amplifier)

60 Ω - Best suited for late model Dodge/Chrysler/Jeep/Ram/Fiat vehicles equipped with a separately amplified OEM "premium" sound system.

20 kΩ - Best suited for all other applications.

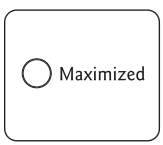
Setting Levels



Main Output - Fixed full range output suitable for connecting to multi-channel amplifiers for door speakers. Use the Main Output Level knob to adjust level for this output.

Bass Output - Variable low passed output (1000 Hz low pass) and is suitable for connecting to a subwoofer amplifier. Use the Bass Output Level knob to adjust level for this output. Once the Bass Output level is set for optimum signal, level can be adjusted on the fly using the included ACR-1 level control.

Maximized Light



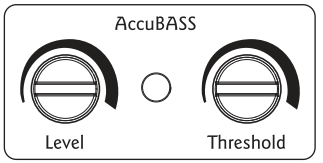
The Maximized Light can be used to help achieve optimal output level and will let you know if you are getting close to clipping the output of the LC2i PRO.

With the factory system set to its maximum undistorted volume, match the output level of the LC2i PRO to the input maximum of your after market amplifier. If the Maximized Light turns on, the LC2i PRO output is distorting. Turn the output level down until the Maximized Light turns off. IF THE MAXIMIZED LIGHT NEVER TURNS ON, don't panic. This just means the output of the LC2i PRO is not clipping/distorting.

ACR-1 Level Control

The ACR-1 is a great way to control the Bass Output level being sent to your subwoofer amplifier. The ACR-1 ONLY controls the level of the Bass Output and is strictly an attenuator knob. The ACR-1 will NEVER increase the Bass Output level past where Bass Output Level knob is set.

Setting AccuBASS®



AccuBASS is a feature that restores bass frequencies on factory systems that roll off the bass as you increase volume. If you can hear that the bass does not increase as you continue to turn up the volume on the head unit, then your factory system is most likely rolling off bass.

There are two AccuBASS controls and a status LED used during initial setup: AccuBASS Threshold determines when AccuBASS turns on, and AccuBASS Level adjusts how much bass is restored. The status LED will illuminate when AccuBASS is active.

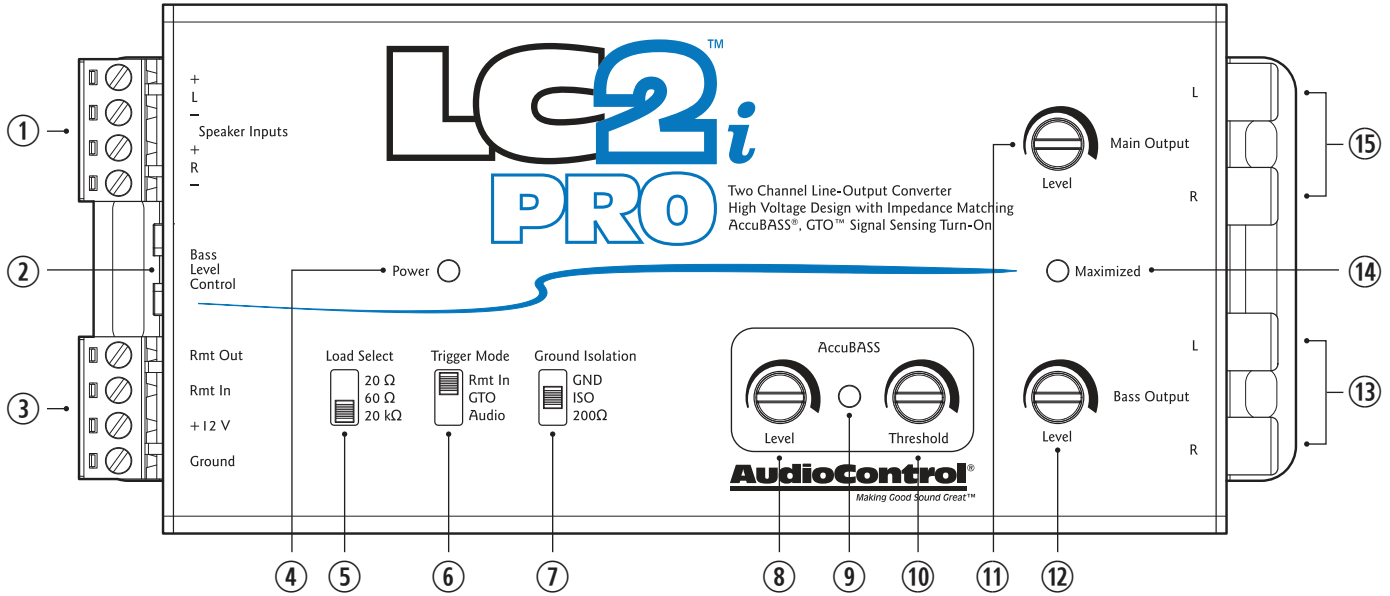
1. Turn AccuBASS Threshold all the way down (counterclockwise)
2. Set AccuBASS Level at the 12 o'clock position
3. Play some bass-heavy music you are familiar with
4. Slowly turn up head unit volume until you start to hear bass dropping out (roll off). Stop turning up the head unit volume.
5. Slowly turn AccuBASS Threshold to the right (clockwise) until the status LED illuminates and you hear hear bass being restored. Stop adjusting AccuBASS Threshold.
6. With AccuBASS Threshold set you can now adjust AccuBASS Level to your liking.

If the sound system in your vehicle does not reduce bass output at higher volumes, AccuBASS may be defeated, or used without the threshold setting (on all of the time). To defeat (turn off) AccuBASS, turn AccuBASS Threshold all the way down (counterclockwise), and turn AccuBASS Level all the way down (counterclockwise).

To keep AccuBASS on all of the time so it does not turn on/off at a set threshold, turn AccuBASS Threshold all the way up (clockwise). Now, regardless of the head unit volume, AccuBASS will always be on. Adjust AccuBASS Level to your liking.

Remote Output

Use the Remote Output (Rmt Out) to trigger on your aftermarket amplifier. When the LC2i PRO turns on (regardless of method) the Remote Output will always be active. Do not connect more than two amplifiers to the LC2i PRO Remote Output. Connecting more than two amplifiers may damage the LC2i PRO.



① Speaker Level Inputs (**40V / 400W INPUT MAXIMUM** AT **20 KΩ**)
② ACR-1 level control input
③ Power Connector (LC2i PRO **REQUIRES CONSTANT +12V POWER**)
④ Power Status LED
⑤ Load Select Switch
⑥ Trigger Mode Switch
⑦ Ground Isolation Switch
⑧ AccuBASS Level Knob
⑨ AccuBASS Status LED
⑩ AccuBASS Threshold Knob
⑪ Main Output Level Knob
⑫ Bass Output Level Knob
⑬ Bass Outputs (variable with included ACR-1 level control)
⑭ Maximized LED
⑮ Main Outputs

Specifications

Maximum Input Handling	40V / 400W (20 kΩ setting)
Maximum Output Level	9.5 Vrms
Output Gain	+/- 12 dB
ACR-1 Attenuation Range	0 dB to -19 dB
Frequency Response	20 Hz to 50 kHz
Total Harmonic Distortion	0.01%
Signal to Noise	>110 dB
Input Impedance	Selectable (20 Ω, 60 Ω, 20 kΩ)
Output Impedance	150 Ω
Power Draw	200 mA
Recommended Fuse Rating	1 Amp
Weight & Dims (with connectors)	0.75 lbs. / 6.9"L x 3"W x 1"H
Warranty	5 Year Warranty (www.audiocontrol.com/warranty/)

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