



L.O.C.PRO
ADVANCED

Line Output Converter

LPA-1.2 | 2 Channel Line-Output Converter

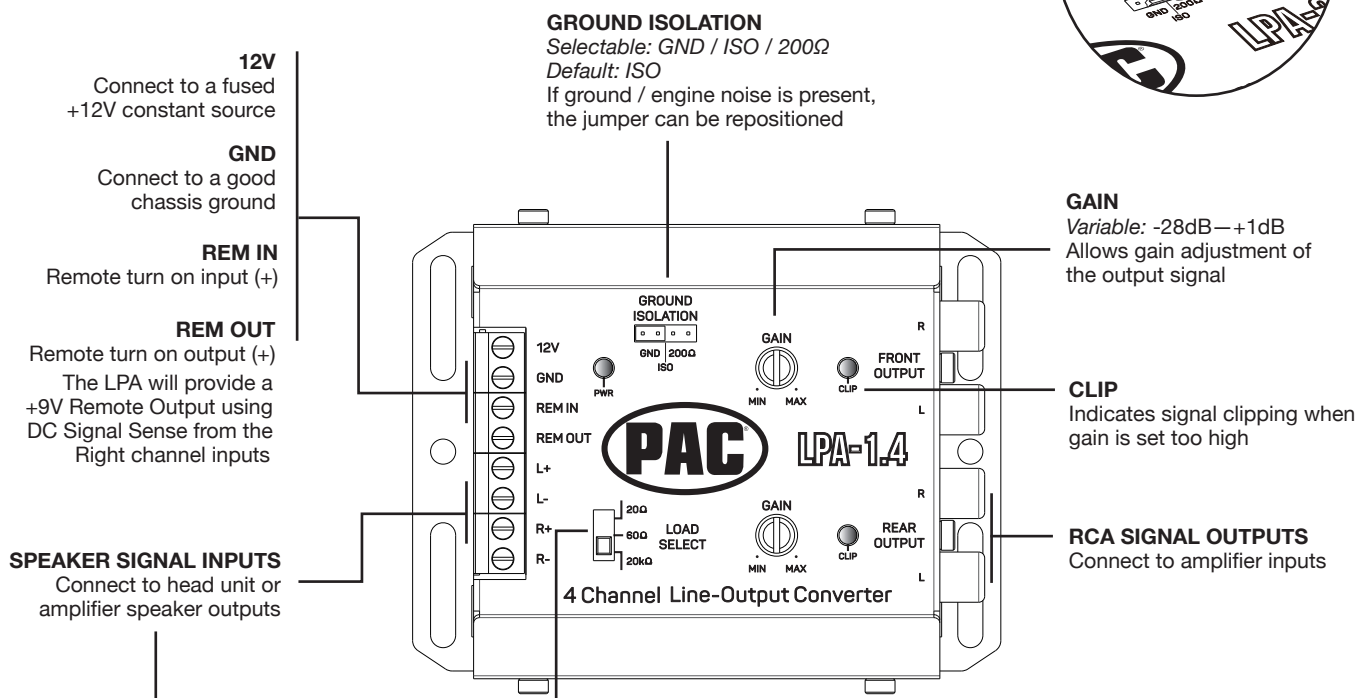
LPA-1.4 | 4 Channel Line-Output Converter

Quick Start Guide

The L.O.C.PRO ADVANCED™ can be used to add amplifiers to an audio system that does not have RCA outputs or when replacing an OEM radio and retaining the factory amplified system. Variable Gain Controls with Clipping Indicators, Selectable Ground Isolation and Load Select features ensure a pure, noise-free signal for any type of audio system.

This Quick Start Guide will get you going, but if you need additional help or information, please visit our website or contact Technical Support.

Features & Wiring Information



12V
Connect to a fused +12V constant source

GND
Connect to a good chassis ground

REM IN
Remote turn on input (+)

REM OUT
Remote turn on output (+)
The LPA will provide a +9V Remote Output using DC Signal Sense from the Right channel inputs

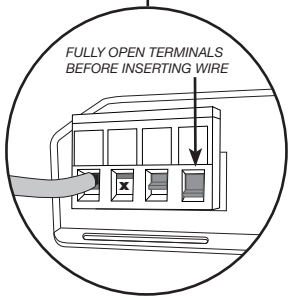
SPEAKER SIGNAL INPUTS
Connect to head unit or amplifier speaker outputs

GROUND ISOLATION
Selectable: GND / ISO / 200Ω
Default: ISO
If ground / engine noise is present, the jumper can be repositioned

GAIN
Variable: -28dB – +1dB
Allows gain adjustment of the output signal

CLIP
Indicates signal clipping when gain is set too high

RCA SIGNAL OUTPUTS
Connect to amplifier inputs



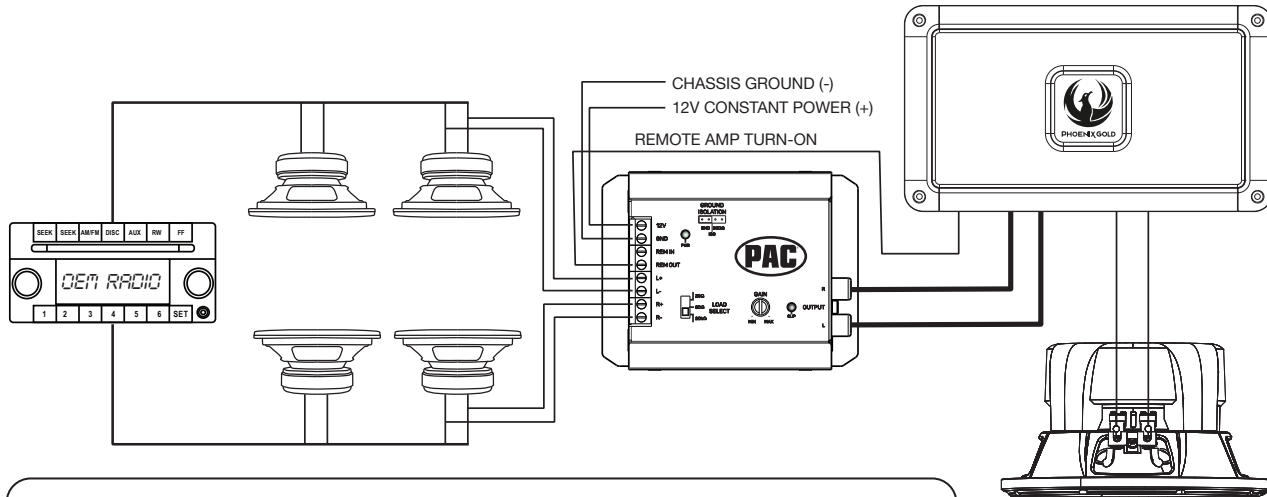
LOAD SELECT
Selectable: 20Ω / 60Ω / 20KΩ
Default: 20KΩ
For factory audio systems requiring a resistance load to output audio.
Some late model Dodge/Chrysler/Jeep/Ram/Fiat vehicles require a load for the audio system to work properly:
20 Ω - Vehicles equipped with base audio system.
60 Ω - Vehicles equipped with premium amplified audio system.
20 kΩ - Default, for all other vehicle applications.

When changing the Load, turn vehicle off, change the Load and let vehicle sit for 5-10 minutes, then retry.

Example Installation

Speaker level input from a radio to RCA level output for an aftermarket amplifier is the most commonly used configuration for the L.O.C.PRO ADVANCED. This will create RCA level outputs from a radio that only has speaker level outputs.

In the example below, the Positive(+) and Negative(-) wires of two speakers are “tapped” and connected to the SPEAKER SIGNAL INPUTS of the LPA. The speakers will continue to play as normal. The REM OUT is connected to the amplifiers turn-on. When the radio is turned on the LPA will automatically turn on the amplifier. Lastly, the RCA SIGNAL OUTPUTS from the LPA are connected to the aftermarket amplifiers inputs.



For more installation examples, tech tips and updates,
visit the L.O.C.PRO ADVANCED product pages on
PAC-Audio.com



Specifications

Model Number	LPA-1.2	LPA-1.4
Channels	2 IN – 2 OUT	2 IN – 4 OUT
Operating Voltage	9V – 16V	9V-16V
Max Input Level (20kH Ω Load Setting)	20V / 100W	20V / 100W
Auto Turn On	DC Offset / Remote	DC Offset / Remote
Output Voltage MAX @ 13.8V	9.5V RMS	9.5V RMS
Turn On Trigger (DC-Offset)	3V – 7V	3V – 7V
Load Input Impedance	20 Ω , 60 Ω , 20K Ω	20 Ω , 60 Ω , 20K Ω
Output Impedance	<120 Ω	<120 Ω
Variable Gain Adjustment	-28dB – +1dB	-28dB – +1dB
Signal To Noise	>110dBA @ 6.4V Output	>110dBA @ 6.4V Output
THD+N	< 0.01%	< 0.01%
Input Sensitivity	0.5V – 20V	0.5V – 20V
Frequency Response	10Hz – 20kHz	10Hz – 20kHz
Current Draw (Max)	40mA	40mA
Low Pass Filter	NO	NO
Bass Boost	NO	NO
Clip Indicator	YES	YES
Remote Level Control	NO	NO
Chassis Type	Stamped Steel	Stamped Steel
Terminal Gauge	18AWG / Screw Type	18AWG / Screw Type