

# MODEL LD-10

## 2.8 Volt rms, 10x Hi-Fi Preamp & Isolator



Pacific Accessory Corporation

### Key Features



- Solid state ground-loop isolation
- Powerful power supply noise rejection
- Adjustable Gain levels
- Low 20 milliampere power consumption.
- 2.8 Volt RMS signal output
- Pre-Amplifies, and drives differential or single-ended amplifier inputs
- Configurable Output Ground Isolation

LD-10 provides a quick and easy 10X boost to low level signals from portable satellite receivers, OEM head units, DSP processors, aftermarket video, phone kits or whatever needs an audio boost. No need to worry about ground loops with LD-10's solid state isolation on both input signals. Max input signal is 12V.

## 1. Easy Installation

1. Connect black wire to chassis or harness ground.
2. Connect red wire to a 12V+ DC constant source, a switched ACC power, or a relay switched by a remote Amplifier turn-on lead.
3. Connect your input audio signals to the female RCA inputs on the black Pacific Accessory Corporation LD-10 labeled "IN L" and "IN R"
4. Set pots to lowest level on the LD-10
5. Connect the output leads RCA's on the wire harness, or if it is more convenient for your application, cut off the RCA, and use the 18 AWG wires directly.

**\*\* tape up any exposed male RCA shields to prevent inadvertent grounding to chassis.\*\***

## 2. Seamless Operation

Because LD-10's output can reach 8 Volts peak to peak; it is easily possible to over-drive some amplifier inputs. For optimal results, adjust the gains & volumes systematically:

**Step #1:** Set both LD-10 pots to lowest level.

**Step #2:** Set source volume to appx. 75% such that the output is not distorted (not applicable to fixed volume devices like some DVD players)

**Step #3:** Turn pots on LD-10 to match volume on the FM or other source.

**Step #4:** With a large signal on your source, verify that you are not over-driving any components with LD-10's output.

## 3. Grounding Notes

To prevent noise in most applications, the output signal grounds are connected to the main LD-10 ground. However, in rare cases, some amplifiers have noise when these audio grounds are grounded. In such applications, we provide cut loops to facilitate this isolation. To isolate: simply pop open LD-10's black box, identify the two black loops near the harness connector; Cut both.

When the black loops are intact, the output RCA shields are ground referenced: i.e. continuity to ground. Some power amps expect a differential input and can't deal with audio negatives trunked together... By cutting LD-10's black cut-loops, you float the grounds so they are now "loosely" referenced to ground through a capacitor and 100K resistor. Example: In a GM SUV, to drive the differential inputs on a factory Bose amp, you need to cut the loops to eliminate some amplifier buzzing noise. Most applications will never need these loops cut.

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