PREMIUM ACTIVE LOC MANUAL

PLOC2PRO 2 IN - 4 OUT with Max Input 40v

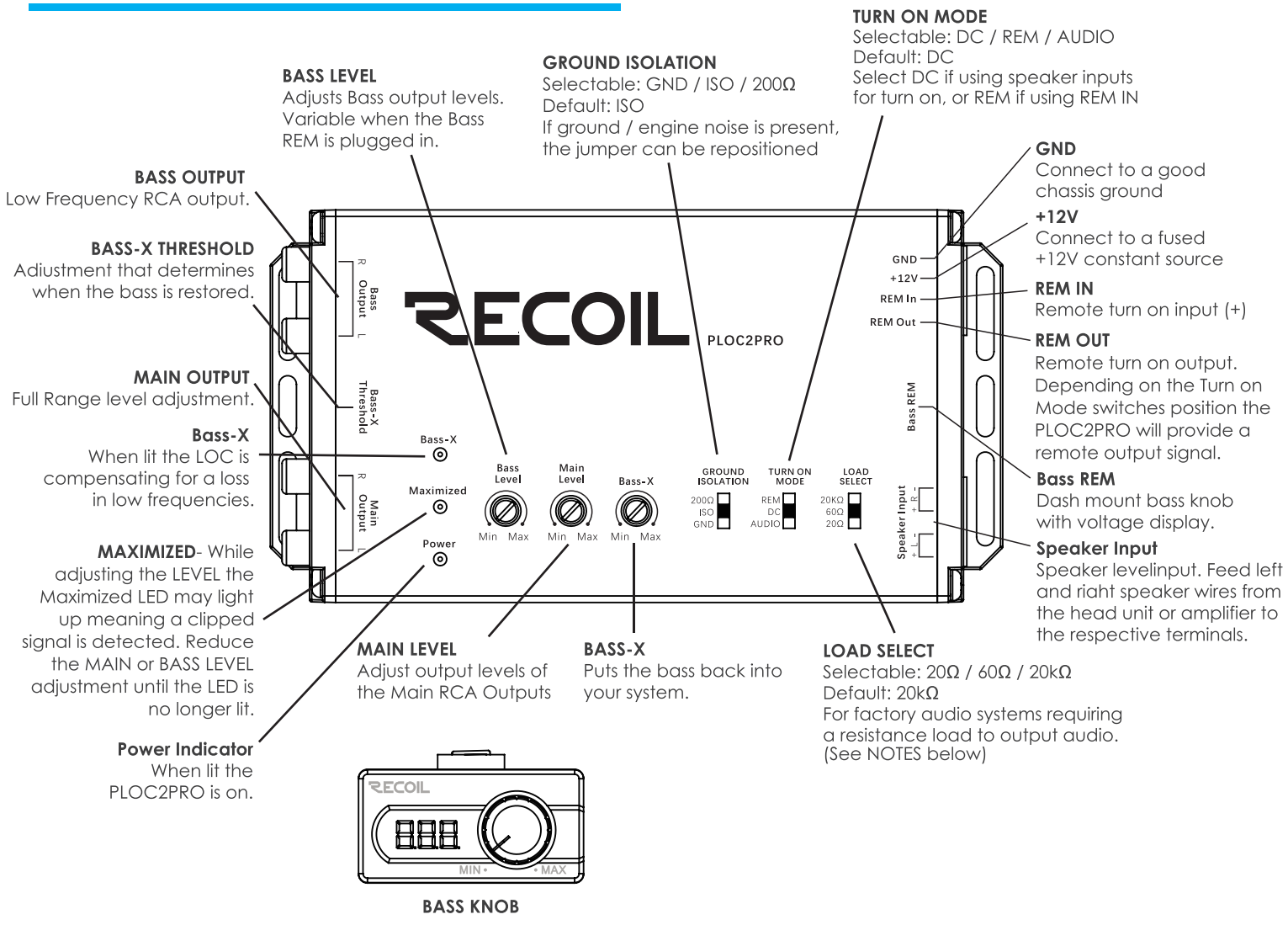
INTRODUCTION

The PLOC2PRO 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.

Some OE radios and amplifiers can reduce the output of low frequencies as the volume is increased. Having a product with a Bass-X restoration circuit in the LOC will allow user to enjoy their music as it was recorded. A bass remote control with digital voltmeter is included.

This Quick Start Guide will get you going, but if you need additional help or information, please contact us support@recoilaudio.com.

PLOC2PRO QUICK REFERENCE



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CONNECTIONS

1. Connect your 12 volt and ground wires to the terminals. 14-16 gauge wire is recommended.
2. By default the LOCs' Turn On Mode is set to DC Offset. Other turn on options are available.
3. Connecting your Speaker Input can happen in a few different places based on your factory system.
a. If your vehicle doesn't have an OE amplifier your best option is to use the speaker wires located behind the radio. Your LOC only requires two inputs, we recommend a left and right full range signal.
b. If your vehicle has an OE amplifier your best option is to use the speaker wires on the output side of your factory amplifier, look for a full range signal.
4. Connect your RCAs. Red RCA's are for the right channel. Black, Gray,or White are for the left channels.
5. Find a suitable mounting location of the bass knob and run the control wire to the location in the vehicle. The bass knob included offers a voltage display and control of bass output levels.

GAIN SETUP

Setting gains is very important, if done incorrectly you can damage your speakers. It is recommended that all settings be adjusted by a professional. Recoil LOCs have a maximum output of 9.5v RMS. On average aftermarket amplifiers have a maximum input voltage range of 3-6 volts.

When adjusting the gains it is important to understand the input sensitivity of your aftermarket equipment and adjust the Output Levels of the LOC to match. If the Output Levels of the LOC are increased beyond the input capabilities of the amplifier it will cause the input stage of the aftermarket amplifier to clip, creating distortion.

1. Before turning your system on, set all levels and gains to Minimum. This includes the LOC and all aftermarket amplifiers.
2. On your radio make sure all audio adjustments i.e. Bass, Treble, Balance and Fade are Centered and Flat.
3. While playing a Pink noise track or a song with dynamic sound, increase radio's volume to 3/4 of the way up.
4. Adjust the output levels of the LOC slowly until the clipping indicator activates, then reduce the levels so the indicator light doesn't come on.
5. Do not adjust the amplifier's gain.

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BASS-X SETUP

Many automotive manufactures load predetemined crossover slopes into OE radios to protect the factory speakers. The louder the volume, the more low frequencies are removed. This feature is not ideal when wanting to upgrade your factory system with aftermarket amplifiers and speakers. The Bass-X Feature restores those lost frequencies, improving the overall listening experience with just a few simple adjustments.

1. Start by turning the Bass-X Gain to MIN and the Bass-X Threshold all the way down.
2. Turn the Bass-X Level adjustment to the center position.
3. With the volume all the way down start playing music with a good vocal and bass track. During these next steps be sure to pay attention to how far you turn the volume up so you do not damage your equipment.
4. Slowly tum the radio's volume up until you hear the bass drop off. This coud happen at any time. Once you believe you have found the point at which the bass drops off, turn the volume up and down until you are confident the bass is being affected, then stop. (Tip: Keep playing the same song at the same time during this process.)
5. Using a small screw driver, adjust the Bass Threshold Control up until the bass starts to come back.
6. The Bass Level Control on top of the LOC can be used to fine tune the low frequency output to the listening preference.

Note: if durmn Step 4 your bass does not roll off, but you still want more, turn the Bass-X level control fully down, rotate the Threshold control fully clockwise to lock in the bass equalization.

TURN ON MODE

Audio Sense – When selected the LOC will power up when an audio signal is present regardless of source. If the radio is muted and the LOC doesn't see an audio signal it will turn off.

DC Signal Sense (Default) – Detects when the OE radio or amplifier turns on. The PLOC2PRO detects the DC voltage across the speaker leads and will provide 12 volts to the REM output.

REM IN – This is the standard way to turn of aftermarket equipment by using a dedicated amp turn on signal or a true ignition signal. When the REM IN is powered it will output through the REM Out.

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GROUND ISOLATION

Different types of ground noise can easily enter into your audio system. The Ground Isolation Select will help eliminate some of the most common ground noises with the simple flip of a switch.

GND – The ground for the LOC is tied to the ground shield of the audio signal.

ISO – The ground of the LOC and ground shield of the RCA are separated.

200 Ohm – LOC ground and ground shield of RCAs are connected to each other by a 200 ohm resistor, balancing yet isolating the ground circuit.

LOAD SELECT

Factory radios and amplifiers can sometimes stop passing audio when they do not see the original speaker's impedance. This is a common issue found in many Chrysler vehicles. The load selector switch will offer two Ohm Load settings that will make the factory equipment think the original speakers are still connected and start passing audio.

20 Ohm – Commonly used in vehicles that do not have a factory amplifier.

60 Ohm – Commonly used in vehicles with a factory amplifier.

20k Ohm – Default setting and used for all other applications.

Model	PLOC2PRO
Channels	2 IN - 4 OUT (2 Main &2 SUB)
Max Input Level (20kOhm)	40V / 400W @ 20K Ohm
Operating Voltage	9V - 16V
Trigger Selection	REM / DC/ AUDIO
Turn On Trigger (DC)	3V-7V
Output Max@13.8V	9.5V RMS
Input Impedance Selection (Speaker Level)	20/ 60 / 20k Ohm
Ground Selection	GND / ISO / 200 Ohm
Gain Adjustment	-28dB to +1dB
Input Sensitivity	0.5V-20V
Signal to Noise	>110dB @6.4V Output
THD+N	<0.01%
Frequence Response	20Hz - 20kHz
Clip Indicator	YES
Bss Boost	0dB +12dB
Remote Control w/Voltmeter	Included

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