

Setting up your stereo right the first time will save you trouble in the future. The goal to adjusting the stereo gains is to provide each amplifier adequate uncompressed signal. Special care should be taken to make sure that your not over driving any speaker into distortion. Read all of these instructions first, before attempting any installation.

INITIAL SETUP ON ZLD CONTROLLER

Source Unit Volume Level (cd player): Set your head unit to 3/4 volume. For most head units this is the cleanest volume setting to maximize signal to noise ratio and dynamic range. Be sure all EQ is set to flat and Loudness is turned off.

Aux Source (IPods etc): Set the volume to 3/4 and defeat all EQ or Bass boost.

ZLD Control Knob Settings: Set the volume control all the way to minimum to start the set up procedure. The Zone control knob should be set to the 12 o'clock position so there is an even blend between the tower and cabin zones. Set all the EQ setting to the 12 o'clock position to defeat any cut or boost.

Amplifiers: Set the gain on the amplifier to its lowest setting.

ADJUSTING THE ZONES - CABIN / TOWER / SUB

- 1) Plug in just the RCA's for the in boat speakers amp. Set the high pass crossover at ~110HZ. Turn the radio level up to the max safe level as described above. Turn the ZLD up to about 3/4 of max volume.
- 2) Slowly turn the gain up until you hear the speakers begin to distort, breakup, or generally sound over driving. Now begin to back off the gain from that point a small amount until you hear the speakers play as loud as they can with no distortion. This adjustment may be very minor in terms of effecting the speaker sound.
- 3) Power the system down. Unplug the amplifier RCAs. Repeat steps 1/2/3 for Tower zone.
- 4) Unplug the RCA's from the subwoofer amplifier. Set the low pass crossover on the amp for the subwoofer at 80HZ (or as determined by your individual subwoofer). Turn the ZLD "bass level" to maximum (clockwise).
- 5) Slowly turn the gain up until you hear the subwoofer begin to distort. Now begin to back off the gain from that point a small amount until you hear the subwoofer play as loud as it can with no distortion. This adjustment may be very minor in terms of effecting the woofer sound.

FINAL CHECK

Turn the volume control down at the ZLD, power the entire system down and plug in all RCA's cables from all amplifiers. Power the system up and do a final check to ensure each zone (cabin/tower/subwoofer) is playing. As you vary the volume control up and down, you should notice the zones blend well together. If they don't, you probably need to do some more fine tuning of crossover points.

If you do need to make adjustments, you may do so by adjusting the high pass and low pass crossovers located on each amplifier to tailor the sound. These adjustments may have a pronounced effect on the overall volume but will require lowering the gain settings at the individual amplifiers. Again, the goal is to have each zone blend together by using the lowest amount of amplifier gain. Over gaining a stereo creates a dangerous condition for the speakers.... FOR REAL!



Models: ZLD MKII

ZLD MKII Owner's Manual

THE ZLD MULTIZONE LINE DRIVER OPERATES YOUR ENTIRE STEREO FROM ONE LOCATION, AND IS BUILT WITH THE REAL WORLD IN MIND. ZLD HANDLES ALL THREE AUDIO ZONES -- TOWER / CABIN / SUBWOOFER. IT'S COMPACT, THOUGHT OUT DESIGN MOUNTS ANYWHERE AND BOASTS EASY TO USE CONTROLS FOR ADDED FUNCTIONALITY AND IS PACKED WITH THE FEATURES YOU NEED.

- MASTER VOLUME CONTROL
- 9V LINE DRIVER
- CABIN / TOWER FADER CONTROL
- EQ
- SUBWOOFER FREQUENCY ADJUST
- SUBWOOFER LEVEL ADJUST
- AUX INPUT

SPECIFICATIONS

Do to ongoing research Specifications are subject to change:

Frequency Response: 10Hz - 22KHz +/- 1dB
 Maximum Input/Output Voltage: 13Vpeak / 9.5Vrms
 Total Harmonic Distortion THD+N: < 0.005%
 Signal to Noise ratio (1V, 1KHz output): 100dB (Tower,Cabin), 98dB Subwoofer
 Channel Separation: > 85dB
 Subwoofer Crossover Slope: 12dB/Octave
 EQ Boost/Cut: +/- 12dB

- A Master Volume:**
Control the entire sound system with this one easy to use knob.
- B Zone Volume (Tower / Cabin / Sub)**
Independently control each zone volume.
- C Sub Freq:**
Adjust the subwoofer crossover frequency to fine tune bass response.
- D Sub Phase:**
Enables user to set 180 degrees out of phase with other zones.
This is an advanced installer feature.
- E Aux Input:**
Turn the auxillary input on or off.
- F EQ Adjustments:**
4 band parametric equalization control for quick adjustments in these frequency regions:
BASS / MID BASS / MID / HI
- G Input Gain:**
increases signal voltage to feed downstream amplifiers
- H RCA Input:**
RCA input for main source unit
- I Aux Input:**
RCA input for an auxillary source
- J RCA Output:**
Dedicated RCA outputs to each amplifier zone (Tower / Cabin / Sub)

