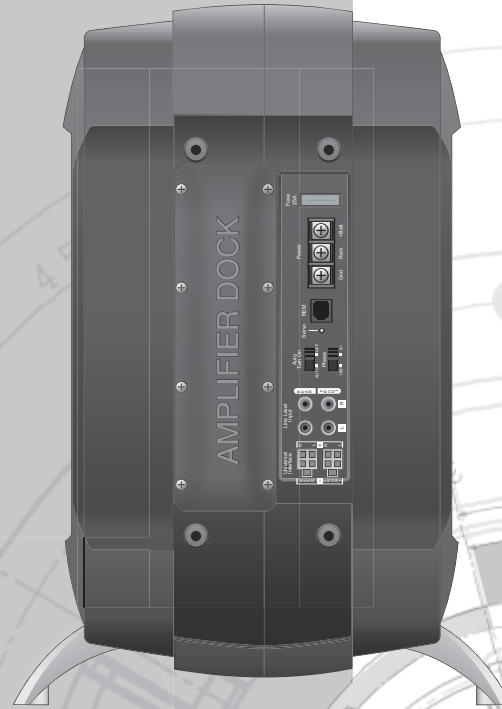


BassLink® II

instructions



BassLink® II

INTRODUCTION

THANK YOU for choosing the Infinity® BassLink® II powered subwoofer. BassLink II has been designed to provide the kind of high-performance low-frequency reproduction that used to require big, clumsy enclosures, large amplifiers and complex installation. To ensure maximum performance, we strongly recommend that installation be entrusted to a qualified professional. Although these instructions explain how to install the BassLink II in a general sense, they do not show the specific installation methods for your particular vehicle. If you feel you do not have the necessary tools or experience, do not attempt the installation yourself; rather, ask your authorized Infinity car audio dealer about professional installation options.

Remember to keep this manual and your sales receipt in a safe place for future reference.

HEARING WARNING!

Playing loud music in a vehicle can permanently damage your hearing, as well as hinder your ability to hear traffic. We recommend using low volume levels while driving. Infinity accepts no liability for hearing loss, bodily injury or property damage resulting from the use or misuse of this product.

YOUR CAR AND BASS REPRODUCTION

Depending on the interior volume of your vehicle and the dimensions of the passenger compartment and cargo area, reproduced frequencies below 80Hz may be boosted by nearly 12dB per octave as frequency decreases. This effect, known as the vehicle's "transfer function" or "cabin gain," plays an important part in shaping the overall in-car response of the BassLink II.

BassLink II is designed to work with your vehicle's other speakers to reproduce frequencies below 100Hz. Moreover, depending on orientation and mounting location, BassLink II may be "in phase" or "out of phase" with those speakers. The resulting conditions, known as constructive and destructive interference, also play a role in shaping the total frequency response of your system. Fortunately, BassLink II has controls to optimize both of these conditions, and their adjustment is explained later in the manual.

CHOOSING A MOUNTING LOCATION

Choose a mounting location that doesn't interfere with cargo, fold-down rear seats or the trunk lid. The best location is usually a corner of the trunk or cargo area, as shown in Figures 1 and 2.

These locations, in addition to being out of the way, will provide the best sonic reproduction in the 60Hz to 100Hz range because the woofer output will be "corner loaded" against the vehicle's walls. In any case, BassLink II must not interfere with the safe operation of the vehicle.

Figure 1. BassLink II in a car's trunk.

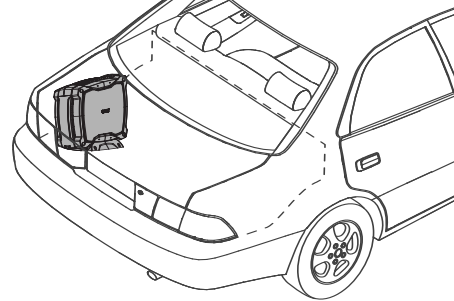
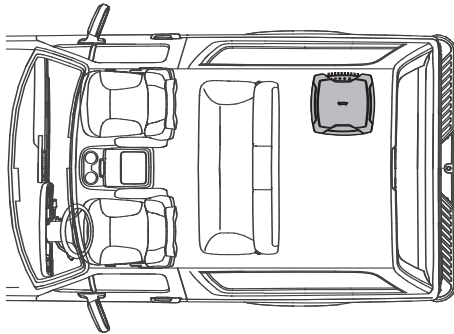


Figure 2. BassLink II in an SUV's cargo area.



MOUNTING BASSLINK II

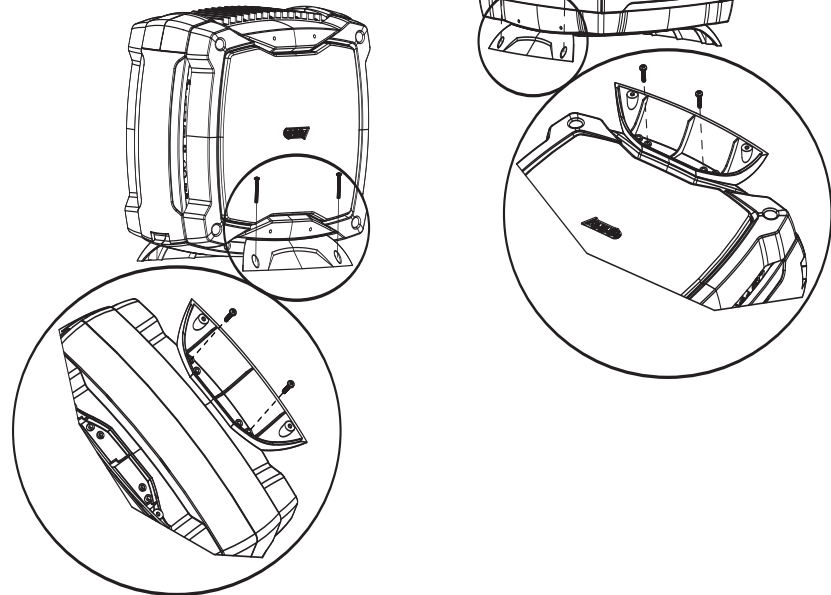
CAUTION: Make sure mounting screws will not puncture wiring harnesses, brake or fuel lines, or the vehicle's fuel tank. Some or all of these may be located behind or under the mounting surface.

VERTICAL MOUNTING

Position BassLink II so that the heatsink is facing down and the bottom of the unit is up. Align the mounting feet as shown in Figure 3. Secure the feet using the supplied machine screws.

Place BassLink II (with its feet) so the controls are easy to adjust. Securely mount BassLink II to the mounting surface with the four enclosed self-tapping screws.

Figure 3. Vertical mounting of BassLink II.

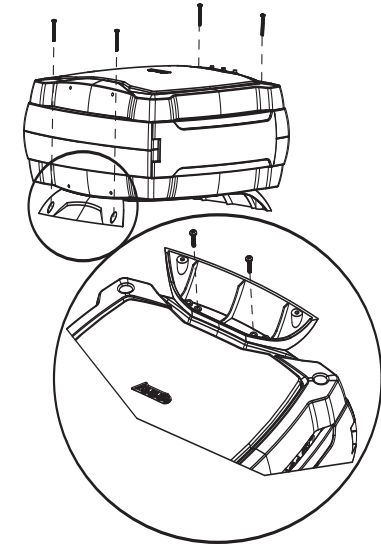


HORIZONTAL MOUNTING

Position BassLink II so that the controls are facing down and the back of the unit is up. Align the mounting feet as shown in Figure 4. Secure the feet using the supplied machine screws.

Securely mount BassLink II to the mounting surface using the four enclosed self-tapping screws.

Figure 4. Horizontal mounting of BassLink II.



APPLICATIONS (CONTINUED)

Figure 7. BassLink II audio connections for a head unit equipped with four line-level (RCA) outputs.

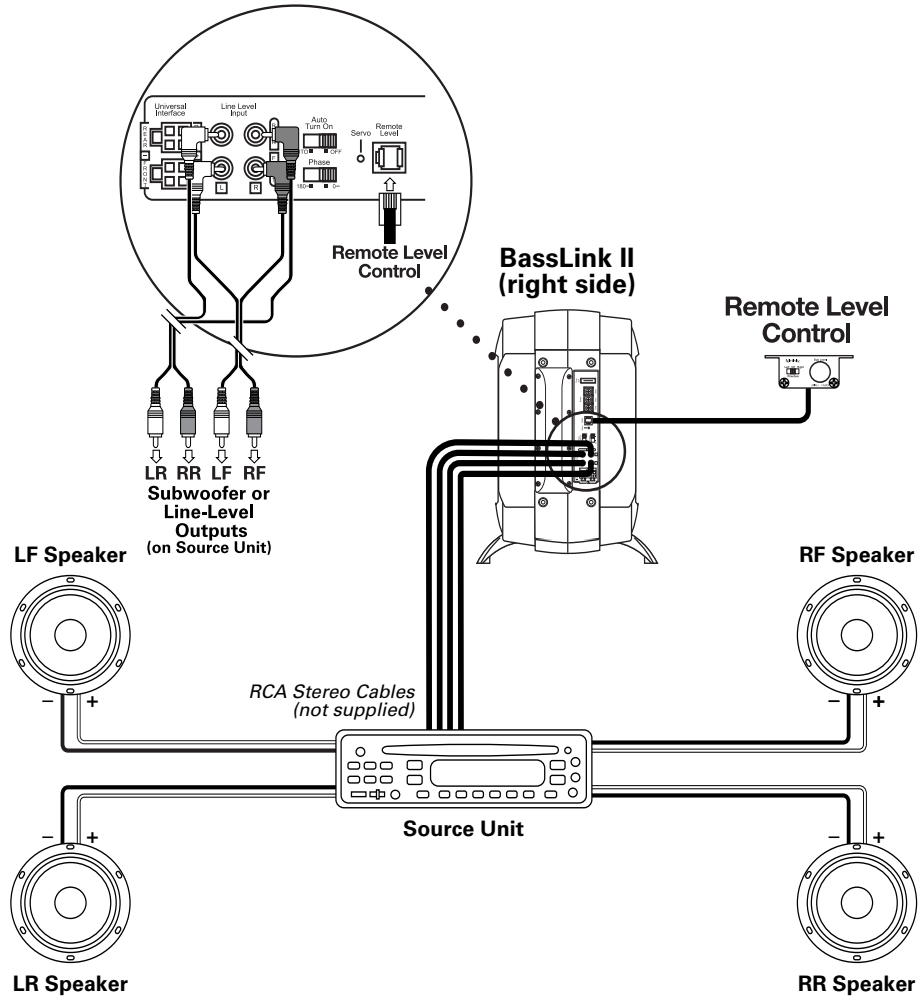
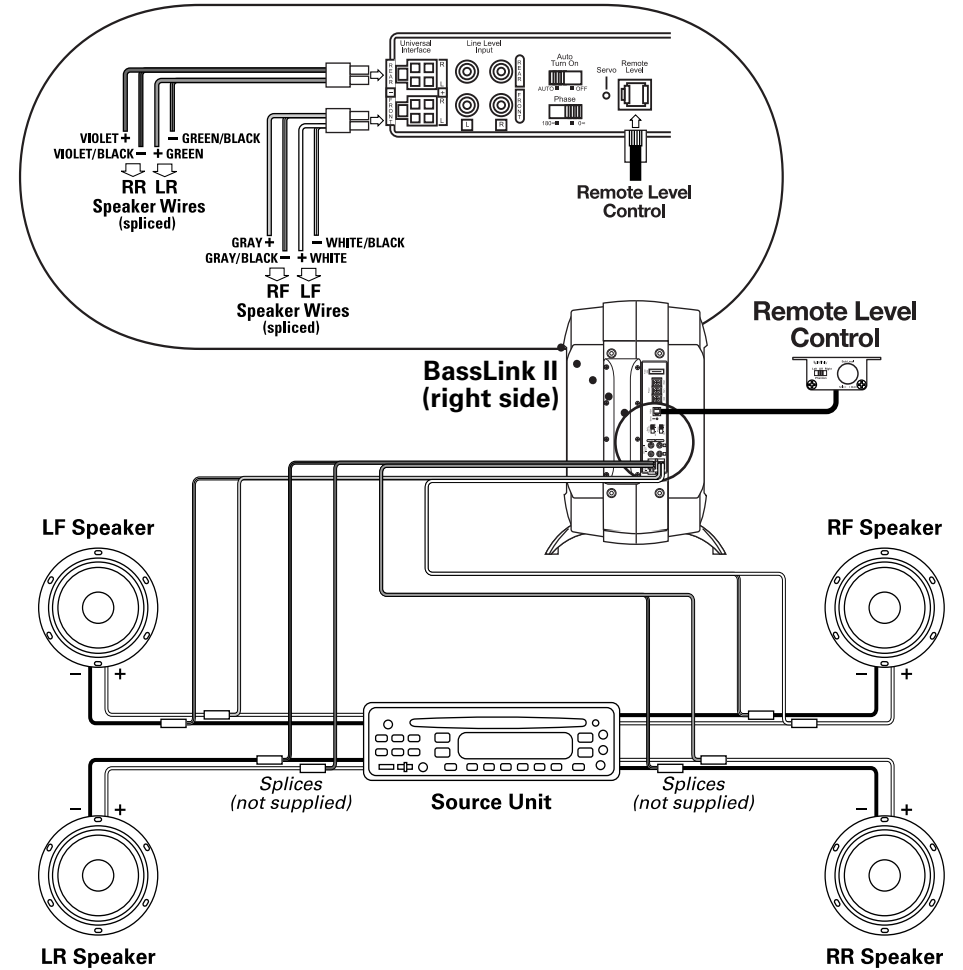


Figure 8. BassLink II audio connections for a head unit equipped with four speaker-level outputs.



BASSLINK 4sc INSTALLATION

DESCRIPTION

The BassLink 4sc is a plug-and-play amplifier designed to make upgrading your system easy. The BassLink 4sc is designed to slide into an available slot in the BassLink II. Unlike an additional outboard amplifier, the BassLink 4sc doesn't require any additional space. The BassLink 4sc also includes a Phantom Center effect, which creates the illusion of a center channel even if no center speaker is installed.

INSTALLATION

1. Remove the wiring cover from BassLink II.
2. Remove the eight screws that hold the AMPLIFIER DOCK cover panel in place (Figure 9). Save the screws.
3. Remove the screw that attaches the two wiring harnesses and connectors to the panel.
4. Connect the wiring harness connectors to the appropriate connectors on the BassLink 4sc's circuit board. See Figure 10.
5. Insert the amplifier and install the eight screws that were removed in Step 2. See Figure 10.
6. Install 40A fuse at the battery.

Note: All four inputs on BassLink II must be used in order for the BassLink 4sc amplifier to function properly.

Figure 9.

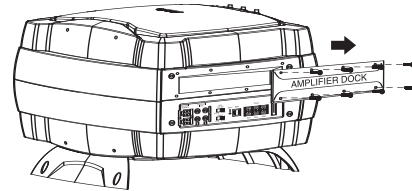
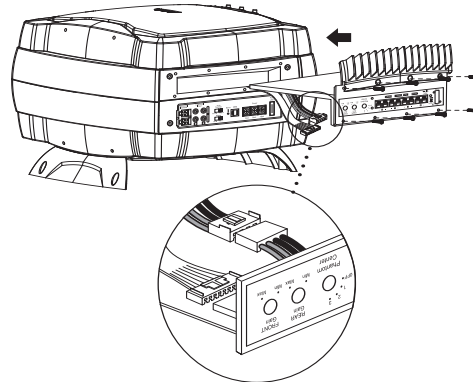


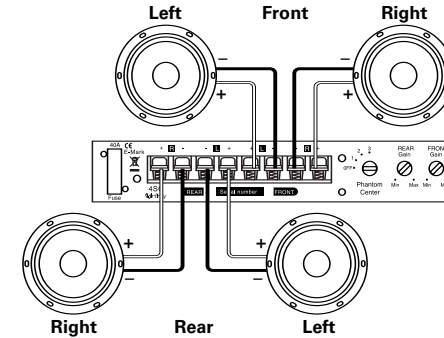
Figure 10.



CONNECTIONS

Connect the front and rear speakers as shown in Figure 11.

Figure 11.

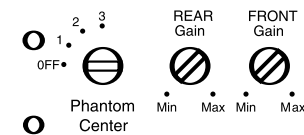


SETTINGS

The BassLink 4sc has input level control for the front and rear speakers and PHANTOM CENTER controls.

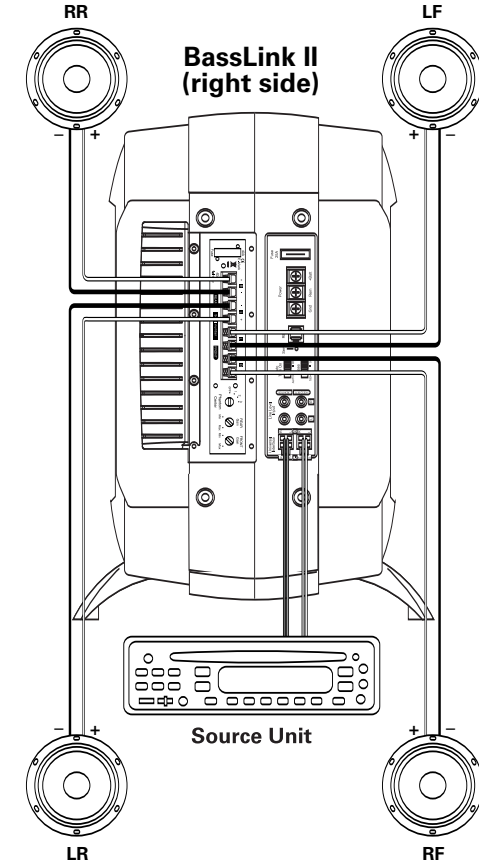
For proper setup, please refer to the full BassLink 4sc owner's manual.

Figure 12.



APPLICATION

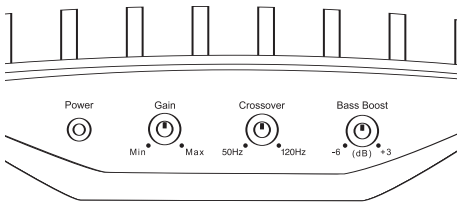
Figure 13. Typical installation using all four speaker level inputs from the source unit.



CONTROLS AND FUNCTIONS

BassLink II provides several controls and indicators that simplify sonic integration with virtually any vehicle's unique acoustic properties. They are located on the front and side panels, as shown in Figures 14 and 15.

Figure 14. BassLink II controls on the front panel.



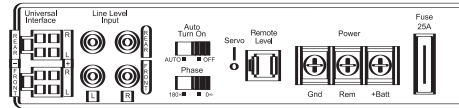
POWER LED: This indicator will glow blue when BassLink II is operational.

GAIN Control: Use this control to adjust the relative volume (loudness) of BassLink II with respect to the other speakers in the vehicle.

CROSSOVER: Use this control to adjust the amount of high-frequency information present in BassLink II's output. A lower value means more of the high frequencies are filtered out.

BASS BOOST: Use this control to correct any perceived peak or dip in the bass response (typically around 40Hz in most vehicles). Set the control to any value between -6dB and +3dB, according to what sounds best.

Figure 15. BassLink II controls on right-side panel.



PHASE Control: Use this switch to reverse the phase of BassLink II's output with respect to its input. Choose the position (0° or 180°) that sounds the best.

Note: Depending on BassLink II's orientation and location in a vehicle, reversing the phase may, or may not, increase or decrease the amount of upper bass being reproduced.

AUTOTURN ON: For speaker-level connections, use this switch to activate (or deactivate) BassLink II's automatic turn-on circuit. For most speaker-level applications, slide the switch to AUTO. However, if your system produces false turn-on signals or uses a remote (REM) connection, slide the switch to OFF.

REMOTE LEVEL Control: Use this RJ11 jack to connect the REMOTE LEVEL control (see page 7).

SERVO LED: This indicator glows blue when the subwoofer is at maximum excursion and the amplifier is modifying the output to maintain maximum performance. Be sure to monitor this indicator during BassLink II setup (see *Tuning BassLink II*). When properly tuned, the SERVO LED should light momentarily during high-level bass transients. Avoid adjustments that cause the LED to remain lit for extended periods.

TUNING BASSLINK II

1. Unplug the RJ11 cable that connects the REMOTE LEVEL control to BassLink II.
2. Make sure the head unit is off and its volume control is set to minimum.
3. On BassLink II's front panel, initially set all controls to their midpoint positions, as shown in Figure 14. On BassLink II's side panel, initially set PHASE to 0°, as shown in Figure 15.
4. Turn on the head unit and play a favorite music track that has substantial bass. Set the head unit's volume control to 75 percent of the total output (approximately 3 o'clock on rotary controls).
5. Adjust the GAIN control clockwise until the SERVO LED (on BassLink II's side panel) begins to flash with each bass note but doesn't stay lit continuously.
6. Listen to your system, making a mental note of the amount of upper bass being reproduced.
7. Switch the PHASE control to 180° and listen again for upper bass content. There may be more upper bass, less upper bass, or no change at all. The position that provides the most upper bass is correct, but choose either setting according to your taste.
8. Adjust the CROSSOVER control clockwise or counterclockwise until you hear only low-frequency information. For example, you should NOT hear any vocals coming from BassLink II when seated in the normal listening position.
9. Adjust the BASS BOOST control clockwise or counterclockwise to suit your taste.
10. Recheck the SERVO LED to make sure it's flashing in time with the bass but is not lit continuously. If it is lit continuously, adjust the GAIN control counterclockwise until the SERVO LED only flashes in time with the bass.
11. Reconnect the RJ11 cable between the REMOTE LEVEL control and BassLink II. You may then use the REMOTE LEVEL control to adjust the level of the bass to suit your taste and/or different program material.

Note: In most cases, the above steps will provide satisfactory tuning. However, the actual process may require several readjustments of each control, since the settings will interact with each other. If necessary, consult your authorized Infinity car audio dealer for help in tuning your system.

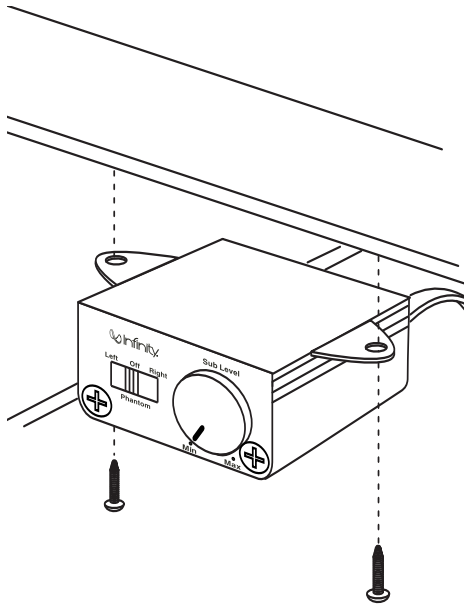
INSTALLATION

The REMOTE LEVEL control may be mounted under the dash or may be dismantled and mounted in the dash for a factory appearance.

UNDER-DASH MOUNTING

Select a mounting location that allows easy access to the control while driving. Using the REMOTE LEVEL control as a template, mark and drill holes in the mounting surface. Attach the REMOTE LEVEL control using the mounting screws provided (Figure 16).

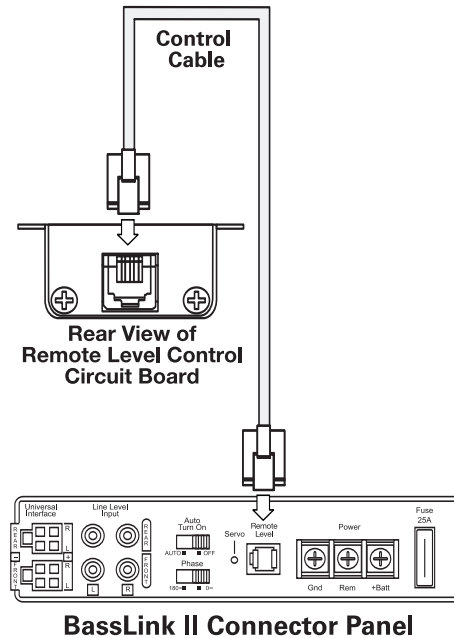
Figure 16. Under-dash mounting of the REMOTE LEVEL control.



CONNECTING THE REMOTE LEVEL CONTROL TO BASSLINK II

Route the cable behind the dash or other interior panels and under the carpet. Do not route the cable outside the vehicle. Connect the RJ11 cable between the RJ11 receptacle on the BassLink II and the receptacle on the REMOTE LEVEL control (Figure 17).

Figure 17. REMOTE LEVEL control electrical connection.



OPERATION

The REMOTE LEVEL control is used to adjust the output level of the subwoofer. This level control allows you to reduce the subwoofer output for music with heavy bass content and increase the level for music with less bass content.

PHANTOM CENTER Switch: The REMOTE LEVEL control has a three-position switch that is used when the BassLink 4sc amplifier is installed. Please refer to the BassLink 4sc owner's manual for the specific operation of this switch.

TROUBLESHOOTING

BassLink II (4sc, if installed)

- **PROBLEM:**
POWER LED not lit.

CAUSES and SOLUTIONS:

1. Fuse is blown and needs replacement.
2. Head unit not functioning properly. Check remote voltage, and power, ground or remote connections.

- **PROBLEM:**
POWER LED is lit but there is no bass.

CAUSES and SOLUTIONS:

1. Inputs are not connected. Check connections.
2. Head-unit fader control is not set properly. Adjust head-unit fader control to feed audio signals to BassLink II.

- **PROBLEM:**
BassLink II sounds muddy or distorted.

CAUSES and SOLUTIONS:

1. Gain is set too high and SERVO LED is lit constantly. Readjust GAIN control (see *Tuning BassLink II* on page 6).
2. Bass is set too high. Readjust BASS BOOST control (see *Tuning BassLink II* on page 6).
3. Head-unit output is distorted or blown. See your authorized Infinity car audio dealer.

- **PROBLEM:**
No output from BassLink II when head-unit fader control is set to front or rear (in a four-channel connection).

CAUSE and SOLUTION:

Input connections are improperly wired. Verify all connections (see *Applications* starting on page 3).

- **PROBLEM:**
BassLink II turns on before head unit is completely on and produces a “thump” sound.

CAUSE and SOLUTION:

For speaker-level connections, head unit is producing a false turn-on signal. On BassLink II's side panel, slide AUTO TURN ON to OFF.

- **PROBLEM:**
BassLink II's POWER LED remains on after head unit is turned off.

CAUSE and SOLUTION:

For speaker-level connections, this is normal operation when AUTO TURN ON is set to ON. BassLink II will remain on another 5 to 10 minutes after sensing that audio signals are not present before shutting down.

- **PROBLEM:**
BassLink II produces a loud humming noise with the system OFF when using speaker-level inputs.

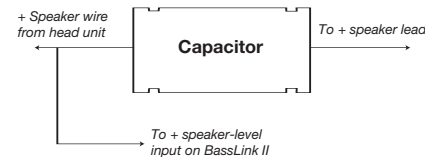
CAUSE and SOLUTIONS:

This problem is caused by a feedback loop between your speakers and the high-level inputs of BassLink II.

Choose one of the following solutions:

1. Connect a wire from the REMOTE terminal on BassLink II to the remote turn-on of your head unit or to the vehicle's accessory circuit. On the control panel, slide the AUTO TURN ON switch to the OFF position.
2. Connect the supplied capacitors between each of the speaker outputs of the head unit and the speaker's positive lead, as shown in Figure 18. Connect each positive lead of BassLink II's high-level inputs to the head-unit side of the capacitors. Use one capacitor per speaker input channel.

Figure 18. Connecting supplied capacitors.



SPECIFICATIONS

BassLink II

Amplifier Power:	250W RMS
Frequency Response:	20Hz to 120Hz
Fuse:	25A
Max. Current Draw:	26A
Idle Current Draw:	< 800mA
Input Sensitivity:	50mV to 4V Line-level input 1V to 16V universal interface
Crossover Frequency:	50Hz to 120Hz
Crossover Slope:	12dB Per octave
Bass Boost:	-6dB to +3dB @ 40Hz
Dimensions (L x W x H):	15-1/16" x 8-3/4" x 15-5/16" (383mm x 223mm x 389mm)
Sub Level Control (with housing):	2-3/16" x 2-5/16" x 7/8" (56mm x 59mm x 23mm)
Sub Level Control (without housing):	2-3/16" x 1-5/16" x 3/4" (56mm x 34mm x 20mm)

A valid serial number is required for warranty coverage.

Features, specifications and appearance are subject to change without notice.

This product is designed for mobile applications and is not intended for connection to the mains.

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