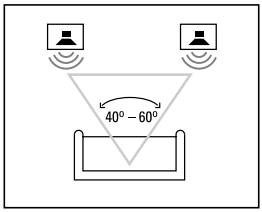
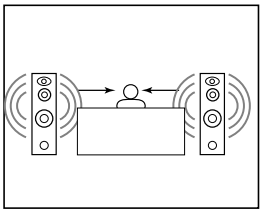
SPEAKER PLACEMENT

Proper placement of the speakers is an important step in obtaining the most realistic soundstage possible. These recommendations are for the optimum placement of the loudspeakers. Use these placement recommendations as a guide. Slight variations will not diminish your listening pleasure.

All of the Northridge E Series loudspeakers referred to in this guide are video-shielded and can safely be placed near a television.

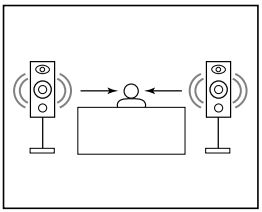
MODELS: E60, E80, E90, E100



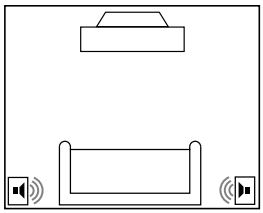


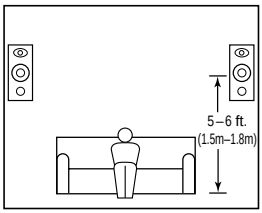
MODELS: E30, E50

As front speakers

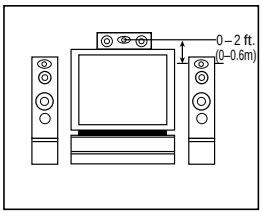


As surround speakers





MODEL: EC35



The EC35 center channel loudspeaker is designed to complement all of the Northridge E Series loudspeakers. It is the ideal way to re-create the cinematic experience in your home.

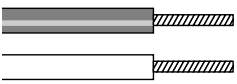
JBL®

NORTHRIDGE™ E SERIES

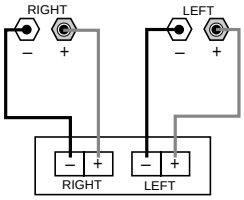
E30, E50, E60, E80, E90, E100, EC35

OWNER'S GUIDE

SPEAKER CONNECTIONS

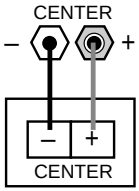


MODELS: E30, E50, E60, E80, E90, E100



Receiver's Speaker Outputs

MODEL: EC35



Receiver Speaker Outputs

Speakers and electronics terminals have corresponding (+) and (–) terminals. It is important to connect both speakers identically: (+) on the speaker to (+) on the amplifier and (–) on the speaker to (–) on the amplifier. Wiring "out of phase" results in thin sound, weak bass and poor imaging.

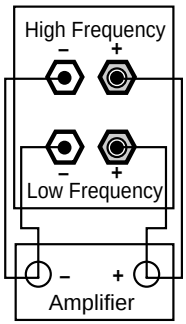
To use the binding-post speaker terminals, unscrew the colored collar until the pass-through hole in the center post is visible. Insert the bare end of the wire through this hole; then screw the collar down until the connection is tight.

The hole in the center of each collar is intended for use with banana-type connectors. To comply with European CE certification, these holes are blocked with plastic inserts at the point of manufacture. To use banana-type connectors requires the removal of the inserts. Do not remove these inserts if you are using the product in an area covered by the European CE certification.

BI-WIRING

The bi-wire connection method requires one amplifier and two sets of speaker wires. By removing the shorting bars, connections may be made to the individual network sections using four conductors, one for each of the four terminals.

For single-wire connection, leave the shorting bars in place and connect only a single set of speaker wires (two conductors) to the two upper terminals.



Bi-Wire Connections

MODELS: E30, EC35, E50

The supplied self-adhesive rubber feet may be attached to the bottom corners of your speakers to protect your furniture.

MODELS: E60, E80, E90, E100

These models feature four rubber feet that enable them to be placed on a smooth-surfaced floor, such as tile or hardwood. Four metal spikes are supplied for use when the speaker is to be placed on a carpeted surface, to decouple the speaker from the floor and prevent unwanted damping. To insert the spikes, gently lay the speaker on its side (not its front or back) on a soft, nonabrasive surface. Each spike screws into the threaded insert in the center of each rubber foot. Make sure all four spikes are screwed in completely for stability.

NEVER drag the speaker to move it, as this will damage the spikes, the feet and/or the wood cabinet itself. Always lift the speaker and carry it to its new location.

CAUTION: Floorstanding (tower) loudspeakers have a high center of gravity and may become unstable and tip over during earthquakes, or if rocked, tipped or improperly positioned. If this is a concern, these speakers should be anchored to the wall behind them, using the same procedures and hardware customary for anchoring bookcases and wall units. The customer is responsible for proper installation and proper selection of hardware.

TROUBLESHOOTING

If there is no sound from any of the speakers:

• Check that receiver/amplifier is on and that a source is playing.

• Review proper operation of your receiver/amplifier.

If there is no sound coming from one speaker:

• Check the "Balance" control on your receiver/amplifier.

• Check all wires and connections between receiver/amplifier and speakers.

• Make sure no wires are touching other wires or terminals and creating a short circuit.

• Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.

• In Dolby* Digital or DTS® modes, make sure that the receiver/processor is configured so that the speaker in question is enabled.

• Turn off all electronics and switch the speaker in question with one of the other speakers that is working correctly. Turn everything back on, and determine whether the problem has followed the speakers, or has remained in the same channel. If the problem is in the same channel, the source of the problem is most likely with your receiver or amplifier, and you should consult the owner's manual for that product for further information. If the problem has followed the speaker, consult your dealer for further assistance or, if that is not possible, visit www.jbl.com for further information.

If the system plays at low volumes but shuts off as volume is increased:

• Check all wires and connections between receiver/amplifier and speakers.

• Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.

• If more than one pair of main speakers is being used, check the minimum impedance requirements of your receiver/amplifier.

If there is no (or low) bass output:

• Make sure the polarities (+ and –) of the left and right "Speaker Inputs" are connected properly.

• Consider adding a powered subwoofer to your system for use with digital ".1" surround formats.

If there is no sound from the surround speakers:

• Check all wires and connections between receiver/amplifier and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.

• Review proper operation of your receiver/amplifier and its surround sound features.

• Make sure the movie or TV show you are watching is recorded in a surround sound mode. If it is not, check to see whether your receiver/amplifier has other surround modes you may use.

• In Dolby Digital or DTS modes, make sure your receiver/processor is configured so that the surround speakers are enabled.

• Review the operation of your DVD player and the jacket of your DVD to make sure that the DVD features the desired Dolby Digital or DTS mode, and that you have properly selected that mode using both the DVD player's menu and the DVD disc's menu.

Declaration of Conformity

CE

We, Harman Consumer International
2, route de Tours
72500 Chateau-du-Loir
France

declare in own responsibility that the products described in this owner's manual are in compliance with technical standards:

EN 50081-1:1992
EN 50082-1:1997

Gary Mardell
Harman Consumer International
Chateau-du-Loir, France 7/03

SPECIFICATIONS

E30	E50	E60	E80	E90	E100	EC35
Description 2-Way 6" bookshelf	**Description** 3-Way, 8" horizontal/vertical mirror-image bookshelf	**Description** 3-Way 8" floorstanding	**Description** 3-Way dual 6" floorstanding	**Description** 3-Way dual 8" floorstanding	**Description** 3-Way dual 10" floorstanding	**Description** 3-Way dual 5" center
Max. Recommended Amplifier Power** 125W	**Max. Recommended Amplifier Power**** 175W	**Max. Recommended Amplifier Power**** 175W	**Max. Recommended Amplifier Power**** 200W	**Max. Recommended Amplifier Power**** 225W	**Max. Recommended Amplifier Power**** 250W	**Max. Recommended Amplifier Power**** 150W
Power Handling (Continuous/Peak) 70W/280W	**Power Handling (Continuous/Peak)** 90W/360W	**Power Handling (Continuous/Peak)** 90W/360W	**Power Handling (Continuous/Peak)** 100W/400W	**Power Handling (Continuous/Peak)** 110W/440W	**Power Handling (Continuous/Peak)** 125W/500W	**Power Handling (Continuous/Peak)** 75W/300W
Nominal Impedance 8 Ohms	**Nominal Impedance** 8 Ohms	**Nominal Impedance** 8 Ohms	**Nominal Impedance** 8 Ohms	**Nominal Impedance** 8 Ohms	**Nominal Impedance** 8 Ohms	**Nominal Impedance** 8 Ohms
Sensitivity (2.83V/1m) 88dB	**Sensitivity (2.83V/1m)** 90dB	**Sensitivity (2.83V/1m)** 90dB	**Sensitivity (2.83V/1m)** 91dB	**Sensitivity (2.83V/1m)** 91dB	**Sensitivity (2.83V/1m)** 91dB	**Sensitivity (2.83V/1m)** 91dB
Frequency Response (–3dB) 50Hz – 20kHz	**Frequency Response (–3dB)** 45Hz – 20kHz	**Frequency Response (–3dB)** 40Hz – 20kHz	**Frequency Response (–3dB)** 38Hz – 20kHz	**Frequency Response (–3dB)** 36Hz – 20kHz	**Frequency Response (–3dB)** 33Hz – 20kHz	**Frequency Response (–3dB)** 75Hz – 20kHz
Crossover Frequency 4000Hz	**Crossover Frequencies** 800Hz, 3200Hz	**Crossover Frequencies** 1000Hz, 4000Hz	**Crossover Frequencies** 300Hz, 4000Hz	**Crossover Frequencies** 300Hz, 4000Hz	**Crossover Frequencies** 1000Hz, 5000Hz	**Crossover Frequencies** 800Hz, 3200Hz
High-Frequency Transducer 3/4" (19mm) Titanium-laminate dome, shielded	**High-Frequency Transducer** 3/4" (19mm) Titanium-laminate dome, shielded	**High-Frequency Transducer** 3/4" (19mm) Titanium-laminate dome, shielded	**High-Frequency Transducer** 3/4" (19mm) Titanium-laminate dome, shielded	**High-Frequency Transducer** 3/4" (19mm) Titanium-laminate dome, shielded	**High-Frequency Transducer** 3/4" (19mm) Titanium-laminate dome, shielded	**High-Frequency Transducer** 3/4" (19mm) Titanium-laminate dome, shielded
Midrange Transducer NA	**Midrange Transducer** 4" (100mm) PolyPlas,™ shielded	**Midrange Transducer** 4" (100mm) PolyPlas,™ shielded	**Midrange Transducer** 4" (100mm) PolyPlas,™ shielded	**Midrange Transducer** 4" (100mm) PolyPlas,™ shielded	**Midrange Transducer** 4" (100mm) PolyPlas,™ shielded	**Midrange Transducer** 3" (75mm) PolyPlas,™ shielded
Low-Frequency Transducer 6" (170mm) PolyPlas,™ shielded	**Low-Frequency Transducer** 8" (200mm) PolyPlas,™ shielded	**Low-Frequency Transducer** 8" (200mm) PolyPlas,™ shielded	**Low-Frequency Transducers** Dual 6" (170mm) PolyPlas,™ shielded	**Low-Frequency Transducers** Dual 8" (200mm) PolyPlas,™ shielded	**Low-Frequency Transducers** Dual 10" (250mm) PolyPlas,™ shielded	**Low-Frequency Transducers** Dual 5-1/4" (133mm) PolyPlas,™ shielded
Baffle Low diffraction, IsoPower™	**Baffle** Low diffraction, IsoPower™	**Baffle** Low diffraction, IsoPower™	**Baffle** Low diffraction, IsoPower™	**Baffle** Low diffraction, IsoPower™	**Baffle** Low diffraction, IsoPower™	**Baffle** Low diffraction, IsoPower™
Port FreeFlow™ flared	**Ports** Dual FreeFlow™ flared	**Port** FreeFlow™ flared	**Port** FreeFlow™ flared	**Port** FreeFlow™ flared	**Port** FreeFlow™ flared	**Port** FreeFlow™ flared
Network Straight-Line Signal Path™ (SSP)	**Network** Straight-Line Signal Path™ (SSP)	**Network** Straight-Line Signal Path™ (SSP)	**Network** Straight-Line Signal Path™ (SSP)	**Network** Straight-Line Signal Path™ (SSP)	**Network** Straight-Line Signal Path™ (SSP)	**Network** Straight-Line Signal Path™ (SSP)
Terminals Gold-plated, 5-way binding posts, bi-wirable	**Terminals** Gold-plated, 5-way binding posts, bi-wirable	**Terminals** Gold-plated, 5-way binding posts, bi-wirable	**Terminals** Gold-plated, 5-way binding posts, bi-wirable	**Terminals** Gold-plated, 5-way binding posts, bi-wirable	**Terminals** Gold-plated, 5-way binding posts, bi-wirable	**Terminals** Gold-plated, 5-way binding posts, bi-wirable
Dimensions (H x W x D) 15" x 8-3/8" x 12" 381mm x 213mm x 305mm	**Dimensions (H x W x D)** 11-1/2" x 17-1/2" x 12-1/4" 292mm x 445mm x 311mm	**Dimensions (H x W x D)** 36-1/2" x 9-7/8" x 12" 927mm x 251mm x 305mm	**Dimensions (H x W x D)** 36-1/2" x 8-3/8" x 13-1/2" 927mm x 213mm x 343mm	**Dimensions (H x W x D)** 40-1/4" x 9-7/8" x 14-1/2" 1022mm x 251mm x 368mm	**Dimensions (H x W x D)** 42" x 12-1/4" x 14-1/2" 1067mm x 311mm x 368mm	**Dimensions (H x W x D)** 7-1/4" x 22" x 10-7/16" 185mm x 558mm x 264mm
Weight Per Speaker 16.3 lb/7.4kg	**Weight Per Speaker** 25 lb/11.4kg	**Weight Per Speaker** 35 lb/15.9kg	**Weight Per Speaker** 40 lb/18.2kg	**Weight Per Speaker** 48 lb/21.8kg	**Weight Per Speaker** 55 lb/25kg	**Weight Per Speaker** 22 lb/10kg

JBL PRO SOUND COMES HOME™

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2, route de Tours, 72500 Chateau-du-Loir, France
516.255.4JBL (4525) www.jbl.com

H A Harman International Company Part No. 350038-002

* Trademarks of Dolby Laboratories.

DTS is a registered trademark of Digital Theater Systems, Inc.

** The maximum recommended amplifier power rating will ensure proper system headroom to allow for occasional peaks. We do not recommend sustained operation at these maximum power levels.

All features and specifications are subject to change without notice.

All dimensions include grilles and feet, but not spikes.