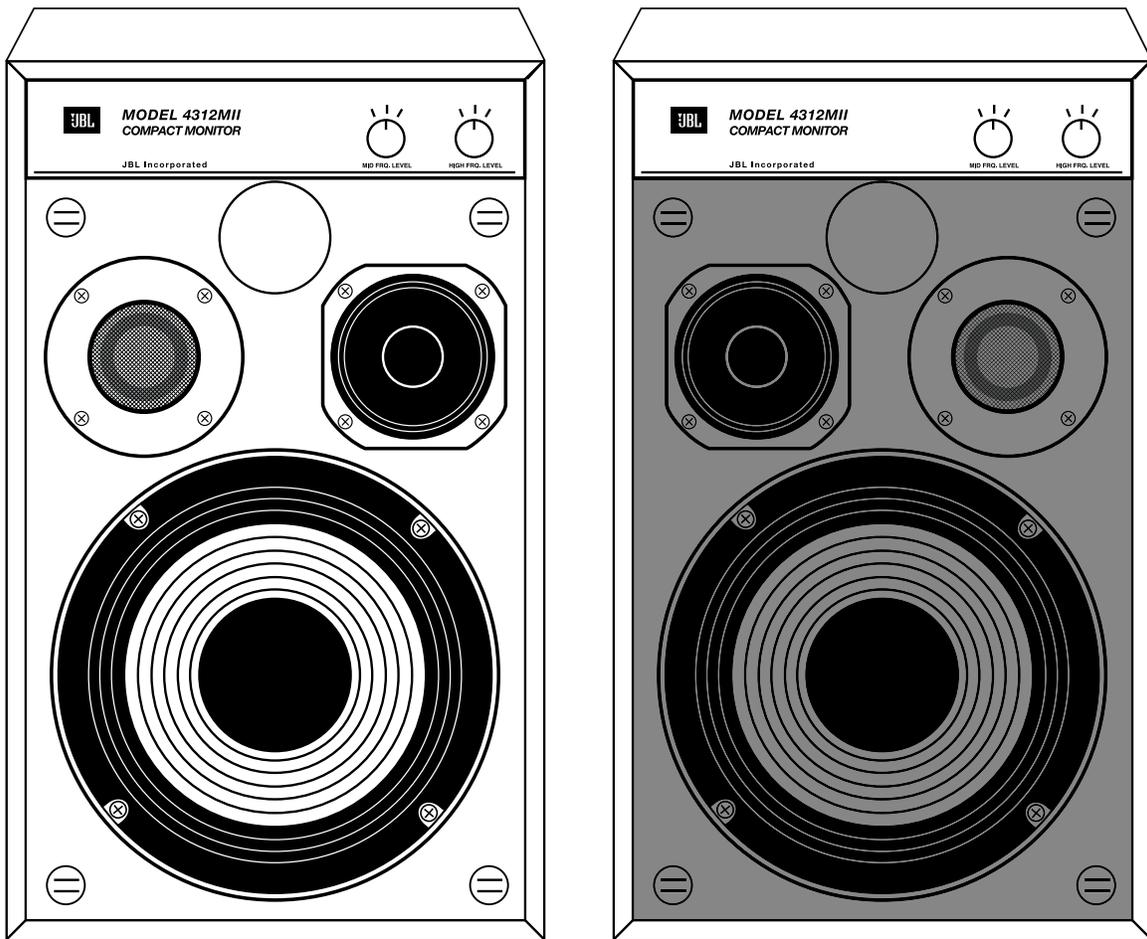


MODEL 4312MII

Compact monitor



OWNERS MANUAL

THANK YOU FOR CHOOSING THIS JBL® PRODUCT

Thank you for purchasing this JBL speaker system. Please read through this owner's manual carefully before using the speakers, and then sit back and enjoy excellent playback sound made possible through their correct connection and placement.

UNPACKING THE SPEAKERS

We recommend saving the cushioning and other packing materials, even after unpacking the product from the carton box. Harman International Japan will not be responsible for damage caused by improper packaging when using materials other than those of the original carton box when transporting the units for moving, repairs, or other reasons.

PLACEMENT

Please refrain from placing speakers near amplifiers, which produce a large amount of heat, in areas with high amounts of humidity or dust, or in areas exposed to direct sunlight. Place the speakers on hard, stable floor surfaces or on stands.

*While this speaker system is magnetically shielded to limit its magnetic effect on television screens, when the speakers are placed near a television, colors on the screen may become distorted depending on the construction and type of television. Also, the internal circuit elements may react to the high frequency magnetism radiating from the television, resulting in noise or distortion. If this occurs, please place the speakers slightly further away from the television.

*Speaker systems are durable consumer goods. Their lifespan can be shortened due to effects from temperature, humidity, ultraviolet light, etc. Please keep the speakers away from bright light fixtures and direct sunlight, and from places with high temperatures, such as near the exhaust outlets of air conditioners or heaters. Also, please refrain from placing the speaker system in closed automobiles or next to windows with direct sunlight.

SPEAKER PLACEMENT

- The proper placement method for this speaker system is for the high frequency tweeter unit with the mesh grille to be placed on the outward side. In order to get the best stereo effect, please place the left and right speakers at an equal distance to the left and right in front of the listener. While the sound field will become wider as more space is placed between the left and right speakers, the stereo-image quality of center-oriented elements such as vocals will weaken. Please adjust the space between the speakers to match the distance with the listening position.
- The sound localization for these speakers is the center of the treble unit, and placing your ears at a listening position at this height will provide the best sound localization and sound field. Please adjust the height of the system using commercially available speaker stands and racks.
- The environment in which speakers are placed generally has a strong influence on the sound quality of low frequencies. If you place the speakers in corners of your room, lower frequencies will be enhanced, and while this will allow you to savor a rich, deep bass, it will also be a dull sound with no edge. On the other hand, when placed away from the wall, the sound will be sharp and clean, even though you sacrifice some of the heavy bass. We recommend that you make the final decision on the placement of the speaker system while actually playing some of your favorite music

CONNECTIONS

CAUTION: When connecting speakers to an amplifier, please do so after turning the amplifier off. If you connect the speakers while the power is still on, it could damage the amplifier and speakers.

This speaker system uses color-coded speaker terminals, with red for + and black for -. Connect commercially available speaker cables to the terminals in back while paying attention to the polarity.

*When using loose end cables on which the protective shield has been peeled back, please be careful that the metal parts of the terminal do not bite into the protective shield. This could interrupt sound due to poor connection.

Also, since there is the possibility of a short circuit if the leads of the cables touch, please do not peel back too far on the protective shield.

LEVEL ADJUSTMENT

The speaker system is equipped to allow users to adjust the levels for mid and high frequencies, which are easily influenced by factors such as the size and construction of the room. Adjust to the desired tone using the control knobs at the top of the front baffle of the speakers while listening to music with which you are familiar. The "HIGH FRQ.LEVEL" knob on the right adjusts the high frequency tweeter, and the "MID FRQ.LEVEL" knob on the left adjusts the midlevel frequency of the midrange unit. The levels of the respective frequencies increase when turning the knobs clockwise (right), and decrease when turning them counter clockwise (left). The center position is the standard position for a normal listening environment.

*The relationship between the volume level on the amplifier and the amount of sound from the speakers can differ depending on the characteristics of the equipment, such as the efficiency and impedance of the speakers, output characteristics of the amplifier and the output level of the source equipment (such as a CD player), as well as the combination of these. When using this speaker system in combination with an amplifier that has low output, if the bass is enhanced and the volume is raised to an excessive level using the tone control or other method, clipping will occur due to distortion in the amplifier output, and this could damage the speakers even if the power is below the maximum recommended amplifier input. If you sense any abnormalities in sound, please lower the volume.

MAINTENANCE

When the speaker set becomes dirty, wipe with a soft, dry cloth. Never use liquids that contain volatile solvents such as paint thinner or benzene to clean the system. Also, please be careful not to apply any spray pesticides.

If the grille net becomes dusty, remove the dust using a vacuum cleaner. When doing so, please adjust the power on the vacuum cleaner so the suction is not too strong. Also, do not wash the grille with water. This may cause discoloration and sagging of the grille to occur.

WARRANTY

- The warranty for this product is provided according to the conditions listed on the warranty certificate. Please check the seal impression of the store where you purchased the product, the date of purchase and other information on the warranty, and keep it in a safe place.
- Speaker systems are durable consumer goods. Since a good amount of stress is placed on the woofer section due to the demands of especially intense movement, its practical lifespan is limited. Since temperature, humidity, and ultraviolet light can shorten the lifespan of the speakers, please keep them out of places with high temperatures.

SPEAKER TYPE	THREE-WAY BOOKSHELF
Units	LF: 133 mm pure pulp white cone woofer MF: 50 mm pure pulp cone midrange HF: 19 mm pure titanium dome tweeter
Frequency response	55 Hz - 50 kHz
Max. Recommended Amplifier Power (music)	75 W
Rated Sensitivity	90 dB(2.83 V/1 m)
Impedance	6 Ω
Crossover Frequencies	7 kHz/12 kHz
Dimensions (H x W x D)mm	181 x 300 x 180
Weight	4.0 kg

*Product specifications and appearance are subject to change without notice for improvements.



HARMAN

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

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