

GENERAL CARE

The Flix2 speakers have non-removeable grilles. Do not attempt to pry the grille from the cabinet as this will void your warranty. The rear panels are removeable to allow service personnel access to the driver components.

The loudspeaker cabinet may be cleaned with a slightly damp cloth. To remove dust from the grille cloth, use a vacuum with a brush attachment. Spots may be removed with a commercial spot remover. Do not use any cleaners or solvents on the speaker drivers themselves.

SERVICE

Should your loudspeaker ever need service, return it to the JBL dealer from whom it was purchased. If for some reason this is impractical, in the United States, call 800-336-4JBL for your nearest warranty station. Military personnel who purchased from authorized military outlets should return them to a similar outlet.

If purchased outside the United States, contact your local distributor to make arrangements for repair service. **Do not return products to the JBL factory without prior authorization.**

Specifications

	Center	Surround
High Frequency Transducer	2-1/2" fiber cone	12mm poly dome
Low Frequency (Hi-Polymer Laminate)	4-1/2" (2)	4-1/2"
Crossover Frequency	7.5k Hz	9.0k Hz
Frequency Response (-6 dB)	90 Hz to 20k Hz	100Hz to 20k Hz
Sensitivity (1 Watt/1 meter)	90 dB	90 dB
Nominal Impedance	8 ohms	8 ohms
Recommended Amplifier Power*	10 to 100 Watts	10 to 50 Watts
External Dimensions (HxWxD)	6" x 18-1/2" x 5-7/8"	8-11/16" x 5-7/8" x 5-1/4"
External Dimensions (millimeters)	152 x 470 x 149	221 x 149 x 133
Weight (each)	10 lbs (4.5 kg)	5 lbs (2.3 kg)
Shipping Weight	24 lbs (10.9 kg)	

*Undistorted continuous power per channel.

JBL continually strives to improve its products. New materials, production methods and design refinements are introduced into existing models without notice as a routine expression of our design philosophy. For this reason, JBL loudspeakers may differ in some respect from their published specifications and descriptions, but will always equal or exceed the original specifications unless otherwise stated.

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Declaration of Conformity



We, JBL Europe A/S
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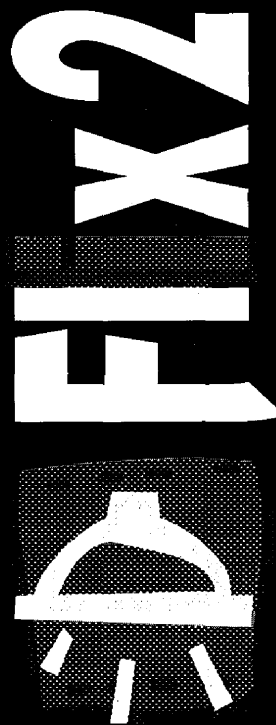
declare in our responsibility,
that the product described
in this owner's manual is in
compliance with the applicable
technical standards.

Steen Michaltes
JBL Europe A/S
Birkerød, DENMARK, 11/93

JBL

FLIX 2 LOUDSPEAKERS

OWNER'S MANUAL



INTRODUCTION

Congratulations on choosing JBL Flix2 Loudspeakers. Their highly accurate, uncolored and balanced sound character will greatly increase your enjoyment of movies and music. JBL speakers are built with careful attention to detail, using only the highest quality materials. They will provide many years of excellent performance.

Your Flix2 Loudspeakers are very easy to set up. We recommend that you take a few minutes to read this owner's manual before you begin, and follow the instructions carefully.

PLACEMENT: Center Channel

As the center channel contains the dialog and other central action sounds, the speaker should be located very close to the television centered with the monitor's center line. Place the Flix2 Center Channel directly on top of the television, with the front edge of the speaker grille flush with the edge of the television. See Figs. 1 & 2.

In case color interference occurs:

The speaker is shielded to work with video applications, however some color interference may be observed on the TV screen depending on the type of your TV set. If color interference is observed, turn your TV off for 15 minutes and move the speaker back about 1" from the front of the TV. Turn on TV and recheck. If this is not far enough, move back further and experiment until the interference disappears. You may have to turn the TV off for a few minutes and turn it on again to clear the screen.

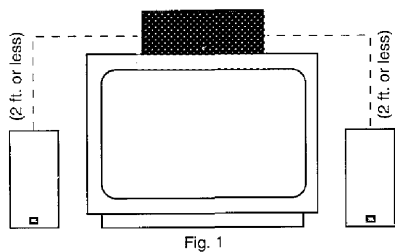


Fig. 1

PLACEMENT: Surrounds

The ideal position for your Flix2 Surround speakers is behind and above (approx. 1 to 3 ft.) your listening position. For best results, they should be equidistant from the center of the listening position (see Fig. 2). You have two mounting options with the Flix2 Surrounds. They can be placed directly on to a shelf or can be mounted to a wall using screws (not included). Obtain two, #8 by 1-1/2" long, round head wood screws from a hardware store. If mounting to a wood wall, drive the screw into the wall until the head is approximately 1/8" from the wall surface. The Flix2 Surrounds have a metal bracket with a keyhole that the head of the screw will fit into. Place the head of the screw into the round portion of the keyhole, then lower speaker so the screw head is captured by the groove. If mounting into a plasterboard wall, make sure the area you choose for the screw location is an area of the wall that is backed up by a wood wall stud, so the screw goes through the plasterboard and into the wood stud. These studs are usually located approximately 16" apart. Drive the screw into the wall until the head is approximately 1/8" from the wall surface. DO NOT attempt to mount your speakers by just screwing into plasterboard alone.

Notice to Purchaser. JBL assumes no responsibility or liability for injuries or property damage—direct, indirect, or consequential—resulting from the improper installation of Flix2 Loudspeakers.

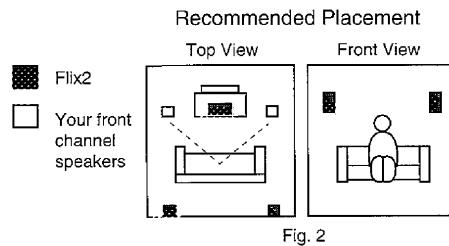


Fig. 2

CONNECTIONS

To connect the Flix2 speakers to the center channel and rear/surround output of your AV receiver or amplifier, use two-conductor insulated wire. Your JBL dealer can recommend suitable cables, or you can buy wire at most hardware or electronic stores. We recommend #16 AWG wire as a minimum size. If your speaker is more than 30 feet (10m) from your AV receiver or amplifier, use larger diameter wire. Connections are made at the terminals located on the back of the Flix2 speakers.

Preparing the hookup wire

Carefully plan your wire paths before cutting any speaker wire. Be sure to allow plenty of extra wire to help hide paths in corners, along baseboards, etc.

1. First determine the distance from your AV receiver or amplifier to the Flix2 Center Channel speaker.
2. Cut a length of speaker wire this length.
3. Second, determine the distance from your AV receiver to the most distant Flix2 Surround speaker.
4. Now cut additional speaker wire for both Flix2 Surrounds this length, even if one loudspeaker is much closer to your amplifier than the other. This will help maintain proper signal balance.
5. Strip off 3/8" of insulation from both ends of each conductor.
6. Twist each set of thin wires into a tightly-bunched spiral.
7. At this point you need to identify a visual difference between the two conductors of each molded pair of speaker wire. Differentiating marks

can be a different color wire (copper or "silver"); a strand of yarn in one conductor; thin, raised ribs on one part of the outer insulation; or a printed "+" marking on one of the insulators. It does not make any difference which of the two strands of wire go to (+) and (-) on the speakers and amplifier, as long as all speakers (including your left and right speakers) are connected identically. Push down on the button below the terminal and insert the wire through the hole (see Fig. 3).

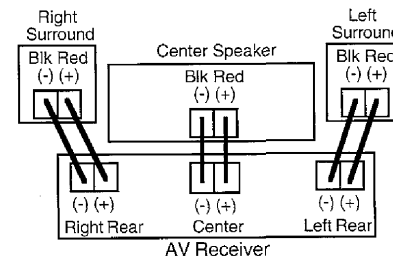


Fig. 3

The red terminal on all loudspeakers should be connected to the red or (+) speaker connection terminal on the AV receiver or amplifier, and the black to the black or (-). Connecting the loudspeakers in this manner ensures that they will be in phase; that is, work together rather than in opposition to the left and right channel speakers. Connecting loudspeakers out of phase will not damage them, but will result in less bass and poor imaging. Using the controls and "test tone" on your center channel AV receiver/amp, adjust the center channel and rear/surround level (volume) control so that the sound level from the center speaker and surrounds is the same level at your normal listening position, as the sound from the left and right front speakers. Refer to the instructions accompanying your AV component.

POWER HANDLING

Thanks to their high efficiency, the JBL Flix2 loudspeakers will produce reasonable volume levels in a room of moderate size with very little amplifier power. However, using a small amplifier to obtain the desired volume listening levels may lead to overdriving the amplifier. This will generate high distortion levels and may cause damage to your loudspeaker. For the best performance, an amplifier should be selected with an output rating that is greater than the maximum power that will be used. This margin of reserve power will ensure that the amplifier will not attempt to deliver more power than its design allows. However, the amplifier's power rating per channel must not exceed the maximum recommended amplifier power for that specific loudspeaker model. Please see the specification section for details. Following these guidelines will provide virtually distortion-free sound reproduction and long loudspeaker life.

TROUBLESHOOTING

The vast majority of new speaker "malfunctions" end up being traced to connections or switch settings. Check the following tips first, before requesting service.

No sound at all or very faint sound from the center channel or surround speaker

1. Speaker wire has become disconnected.
2. One of the connections between sound source and AV receiver/amp is faulty or has become disconnected.
3. AV receiver/amp center channel mode not selected. Please select a mode that activates the center channel.
4. Rear/surround information may not be recorded in some scenes and passages.
5. AV receiver/amp "audio direct" switch is activated. This switch should be off to activate the 5 speaker surround mode.
6. Sound source (VDP, VCR, CD, cassette deck, turntable) not turned on, not activated, not hooked up or not selected on AV receiver/amp front panel.

Speaker plays at low volumes but shuts off as volume is increased OR sound turns on and off intermittently

A few strands of speaker wire may be shorting out. Recheck the connections. Check to see that the impedance of the speakers is equal to or higher than the minimum amplifier impedance.