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INSTALLATION INSTRUCTIONS



JWD MODEL DIN-100AT IN-WALL SPEAKER SYSTEM

The Model DIN-100AT is a two-way speaker system designed to be installed flush in walls or ceilings where foreground music and voice reproduction is desired. The pivoting tweeter allows the directional high frequencies to be pointed to the primary listening area for optimum sound reproduction. It may be used in monaural 70-volt installations as well as 8-ohm stereo installations (See "Stereo Installation" below). Its construction provides quick, simple installation as is, or may be painted to blend with any wall or ceiling decor.

Speaker Placement

Higher frequencies are more directional than lower frequencies as shown by the darker area in Figure 1. Consequently, the sound level of the higher frequencies will be greater when the listener is directly in front ("on axis") of the sound source. As the position of the listener moves off axis to either side, the sound level of the higher frequencies decrease. To compensate for this factor, the high frequency tweeter of the DIN-100AT can be adjusted toward the primary listening area to provide best frequency reception.

Keeping the "on-axis" concept in mind, the ideal height of the speakers should be the listeners' heads. For stereo, the primary listener's heads also should be the point of a triangle that is equal distance between the listener and the two speakers. Where this is not practical, rotation of the pivoting tweeter should be used to direct the higher frequencies in this triangular pattern. A ± 3 dB switch located below the tweeter also is available to further enhance the higher frequencies if desired.

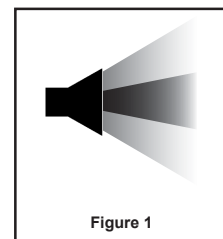


Figure 1

Other suggestions include:

1. Avoid mounting speakers near a color TV set. A minimum distance of 12" from the color TV or monitor is required, or picture distortion will occur. Also keep away from audio or video tapes.
2. Avoid objects that may impede the sound path between speakers and listeners.
3. Avoid existing electrical wires or pipes.
4. Provide at least 2" clearance between cutout and any studs or joist for mounting bracket and hardware to work properly.
5. A thickness of $\frac{3}{8}$ " to $1\frac{3}{8}$ " for wall and ceiling can be accommodated.
6. A minimum mounting depth of $3\frac{1}{2}$ " measured from the face of the wall or ceiling is needed in order to fit properly.

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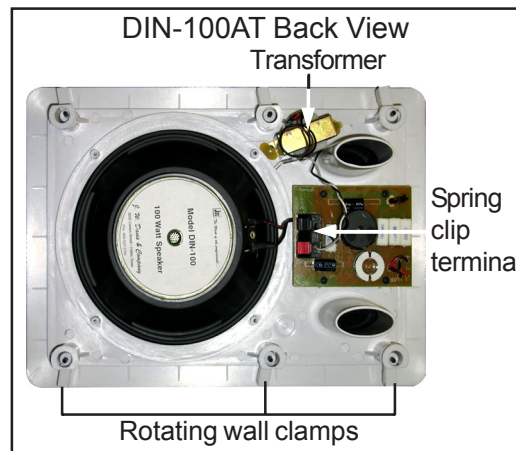
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Installation Guides

1. Use **INSIDE** dimensions of enclosed template to mark the cutout for the speaker. (Tip: Check top of the cutout with a carpenter's level to ensure correct vertical alignment.)
2. Carefully remove grille using small flat-blade screwdriver to slowly pry up one corner to access the mounting screws.
3. Connect incoming 70 Volt line to the spring-clip terminal, taking care to maintain correct polarity. (Red 70V, Black Com).
4. Turn all 6 rotating wall clamps inward and put speaker in cutout space.
5. Using phillips screwdriver, tighten the mounting screws. The wall clamps will rotate as the screws are tightened. (**Caution:** Too much force will cause the frame to warp and will damage the speaker system.)
6. Adjust the direction of the tweeter toward the primary listening area.



Stereo Installation

To change the speaker to an 8-ohm impedance for stereo, cut the white & black transformer leads, making sure to leave enough wire to attach back together if needed. Strip wire leads going to crossover board about 1/4" and, using wire nuts, connect the white wire to positive and black to negative. The transformer can remain in the cabinet without affecting the speaker operation.

Painting the Speaker System

The front of the DIN-100AT speaker may be painted to blend with any decor. For best results, these procedures should be followed:

1. Use an aerosol spray paint containing a nitrocellulose lacquer for best adhesion. If using the same paint as being used for existing walls or ceilings, the grilles should first be sprayed with a suitable primer of nitrocellulose material then painted with either an enamel or latex paint
2. Before painting plastic frame and grille, very lightly sand with fine sandpaper
3. Remove grille from frame and spray paint with aerosol paint, taking care to not to overpaint or overbrush which will fill holes and limit the speaker's performance
4. Before painting the plastic frame, cover the speakers in the cabinet

TECHNICAL SPECIFICATIONS

System	Ported Two-Way In-Wall/Ceiling Speaker System
Power Handling	100-Watt@8ohm, 10-Watt@70.7Volt; Continuous
Frequency Response	45Hz-20kHz ±5dB
Woofers	8" Polypropylene, 20 oz. Magnet
Tweeter	1.75" Pivoting with ±3dB Switch
Sensitivity	93dB 1w/1m
Crossover	Two Way
Dimensions	10 1/4" W x 14 5/16" H x 3 1/2" D
Weight	4 lbs. 12 oz.

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