



**D130F
D131F**

**THE GUITAR
LOUDSPEAKER
DESIGNED FOR
THE PROFESSIONAL**

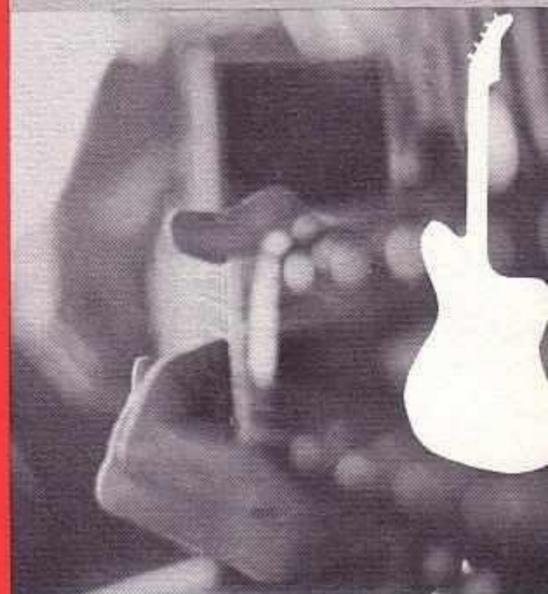


A number of years ago, several of the leading guitar manufacturers in the United States approached JBL and requested that we furnish our Model D130 15-inch loudspeaker for use with their top-quality guitar amplifiers. They wanted to use this speaker because professional guitarists had specifically asked for the D130.

The request was unique... JBL had never attempted to sell its loudspeakers for use with musical instruments. Moreover, the cost of the D130 is about five times that of any loudspeaker which had previously been used with guitar amplifiers. We discovered that professional musicians, in their continuing search to improve their instruments, had discovered the D130 and found that it

produced a quality of sound which was impossible to approach with any other loudspeaker. Word quickly spread among guitarists, and soon most of the professionals had installed D130's in their own amplifiers.

When we at JBL became aware of this demand, we began a research program to see if we could design a guitar loudspeaker which would be even better than the fabulous D130 for this specialized application. The result is the first professional-quality loudspeaker designed specifically for use with electric guitars: the JBL D130F. This unit, and its 12-inch counterpart, the D131F, provide a brilliance of tone, dynamic range, reliability which cannot be approached by any other loudspeaker regardless of price or size.

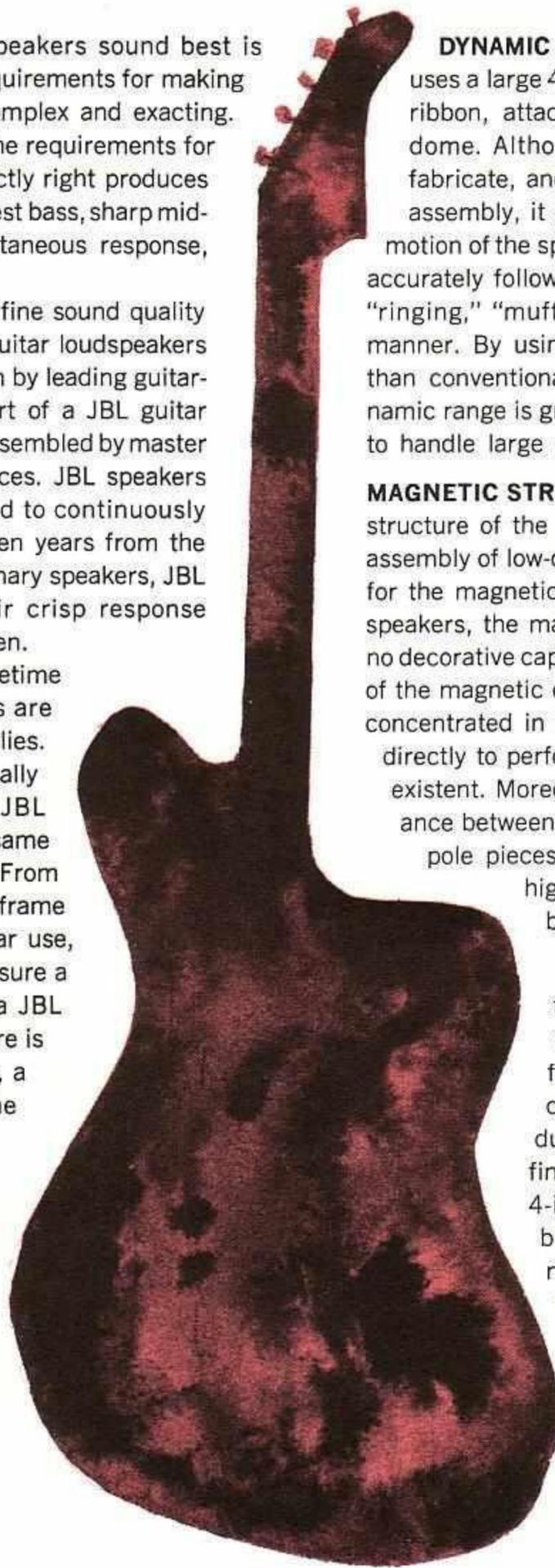


The reason that JBL guitar loudspeakers sound best is because they are made best. The requirements for making a perfect guitar loudspeaker are complex and exacting. Only in JBL loudspeakers are all of the requirements for perfection met. Doing all things exactly right produces the characteristic "JBL sound"—honest bass, sharp mid-range, bright smooth treble, instantaneous response, effortless total sound.

The most convincing proof of the fine sound quality and unique design features of JBL guitar loudspeakers is their rapid acceptance and acclaim by leading guitarists throughout the world. Each part of a JBL guitar loudspeaker is hand-machined and assembled by master craftsmen to incredibly fine tolerances. JBL speakers have "built-in brightness," designed to continuously perform at their best two, five, or ten years from the time they are purchased. Unlike ordinary speakers, JBL guitar loudspeakers maintain their crisp response regardless of how hard they are driven.

A JBL guitar loudspeaker is a lifetime investment. Cast aluminum frames are bolted to massive magnetic assemblies. Each part of every speaker is individually crafted, assembled, and tested. JBL speakers are hand assembled in the same tradition as the world's finest guitars. From the hand-wound voice coil to the frame gaskets especially designed for guitar use, each speaker is custom crafted to assure a lifetime of perfect sound. Even if a JBL speaker is accidentally damaged, there is no need to replace it. In most cases, a new cone assembly will restore the speaker to its original condition.

From whisper-quiet passages to auditorium levels, JBL guitar speakers will provide distortion-free sound with constant clarity. JBL guitar speakers remain bright at any level—there is no need to turn up the volume to get sharp response. Complex runs are cleaner. Playing is easier.



DYNAMIC ASSEMBLY. Each JBL guitar loudspeaker uses a large 4-inch voice coil of edgewound aluminum ribbon, attached directly to the aluminum center-dome. Although a 4-inch voice coil is difficult to fabricate, and requires a carefully crafted magnetic assembly, it gives the best possible control over the motion of the speaker cone, thus allowing the speaker to accurately follow the most complex guitar runs without "ringing," "muffling," "break-up" or distorting in any manner. By using edgewound aluminum ribbon rather than conventional round wire, efficiency is raised, dynamic range is greatly increased, and the speaker is able to handle large momentary overloads without damage.

MAGNETIC STRUCTURE. The eleven pound magnetic structure of the D130F and D131F uses a massive pot assembly of low-carbon cast iron to provide a return path for the magnetic lines of force. As in all JBL precision speakers, the magnetic assembly is purely functional—no decorative caps or covers are used. In JBL speakers, all of the magnetic energy supplied by the heavy magnet is concentrated in the voice coil gap where it contributes directly to performance. Wasteful stray fields are nonexistent. Moreover, because of extremely small clearance between the moving coil and the fixed magnetic pole pieces (less than the thickness of a guitar's high E string), much higher flux density can be realized than in ordinary loudspeakers.

PERFORMANCE. The unique construction of a JBL guitar loudspeaker makes it capable of accurate, sharp, distortion-free sound. The large voice coil and special cone form a rigid piston which reproduces low frequencies as precisely defined bass tones, not a muddy boom. The 4-inch aluminum dome delivers sharp, brilliant, crisp treble notes without the necessity of turning the treble control on the amplifier beyond a normal setting. The rugged construction of the frame allows the speaker to be used in a portable enclosure without fear of damage due to rough handling.



APPLICATIONS. JBL guitar loudspeakers are directly interchangeable with any 12" or 15" speakers. The JBL D130F 15-inch loudspeaker may be used in any amplifier cabinet which accepts a 15" speaker. The JBL D131F loudspeaker can be used in any cabinet which will accept a 12-inch loudspeaker.

The JBL D131F 12-inch guitar loudspeaker uses the same magnetic structure, voice coil, and dome as the

D130F 15-inch speaker. Except for outside diameter, the D131F is identical to the larger D130F.

For custom and non-standard applications, JBL maintains a staff of technical experts who will be happy to answer any questions you may have. There is no charge for this service. Address your inquiry to the Technical Service Department, James B. Lansing Sound, Inc., Los Angeles, California 90039.

