

1245 & 1225

PREMIUM JBL® REPLACEMENT DIAPHRAGMS

Radian Audio Engineering, Inc., manufactures premium replacement diaphragms for a wide variety of JBL® compression drivers designed for use in professional loudspeaker systems utilized in fixed installation and touring applications. Each replacement diaphragm provides high efficiency and accurate reproduction with extended bandwidth. Replacement diaphragms are designed and manufactured to have equivalent or better performance than the original.

Compression domes are precision formed from heat-treated, structural aluminum alloy and bonded to a copper-clad aluminum voice coil with a Kapton® former utilizing proprietary tooling. Aluminum has a higher strength-to-weight ratio than titanium providing low-distortion, high-fidelity response that delivers clear, crisp music and speech for theatrical, auditorium, stadium and church installations.

The suspension utilizes a Mylar® surround, rather than a metal one-piece dome and surround, which enhances the replacement diaphragms reliability and eliminates fatigue stresses that destroy other compression driver diaphragms. The Mylar® surround also provides good dampening of the voice coil/diaphragm assembly for smooth, low-distortion, linear output with excellent transient response.

To ensure longer diaphragm life, our high temperature voice coil former and advanced adhesives permit each replacement diaphragm to sustain high RMS and peak power levels, equivalent or better than the original.

If necessary, the diaphragm/voice coil assembly may be rapidly replaced in the field. The self-aligning diaphragm assembly assures simple installation and accurate alignment with the same polarity as the original.

Unparalleled power handling, high-frequency performance, reliability and low distortion make Radian premium replacement diaphragms the preferred choice for loudspeaker repair centers, consultants, sound system designers, contractors and engineers worldwide.



- ✓ AVAILABLE FOR JBL®
 1", 1.4", AND 2" DRIVERS
- ✓ INDESTRUCTIBLE
 MYLAR® SURROUND
- ✓ ALUMINUM ALLOY COMPRESSION DOME
- ✓ EDGEWOUND ALUMINUM VOICE COIL
- ✓ HIGH TEMPERATURE KAPTON® FORMER



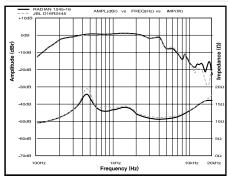
PREMIUM JBL® REPLACEMENT DIAPHRAGMS

SPECIFICATIONS

	<u>1245</u>	<u>1225</u>
Frequency Response	500 Hz – 20 kHz	800 Hz – 20 kHz
SOUND PRESSURE LEVEL*		
	132 dB peak at one meter	131 dB peak at one meter
Maximum Power Handling**		
	150 watts peak	140 watts peak
Sensitivity***	I 11 dB, one watt at one meter	110 dB, one watt at one meter
Recommended Crossover	500 Hz, 18 dB/octave,	800 Hz, 18 dB/octave,
		1000 Hz, 12 dB/octave
Nominal Impedance	16 ohms	1225-8=8 ohms, 1225-16=16 ohms
MINIMUM IMPEDANCE		•
D.C. Resistance	8.5 ohms (± 10%)	
		1225-16=6.5 ohms (± 10%),
Voice Coil Diameter		
Voice Coil Material	8 11	9 11
	clad aluminum	clad aluminum
DIAPHRAGM MATERIAL		
D C		treated aluminum alloy
DIAPHRAGM SUSPENSION		
POLARITY Positive v		
		diaphragm towards phase plug
DIMENSIONS		
Weight		.75" (19.05mm) deep
WEIGHT	1.9 0z. (53.86 gm)	1.0 0z. (28.35 gm)

^{*}Measured at rated MAX POWER HANDLING

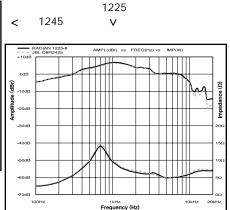
Every attempt has been made to duplicate the technical specifications and performance parameters of the original product. However, variations in manufacturing tolerances may cause products to differ.



Amplitude vs Frequency vs. Impedance Response of Radian 1245-16 and JBL D16R2445 diaphragms as measured on a 2" (50.8mm) plane wave tube with a 2.83 Vrms input.

JBL is a registered trademark of Harman International. Mylar is a registered trademark of Dupont.

Specifications subject to change without notice.



Amplitude vs Frequency vs. Impedance Response of Radian 1225-8 and JBL D8R2425 diaphragms as measured on a 1" (25.4mm) plane wave tube with a 2.83 Vrms input.

	Diaphragm Cross-Reference Guide				
	Driver Model	Radian Replacement	Original Diaphragm		
	LE85/LE17 375H 376 376 2415H/J 2416H/J 2420 2421 2425H/J 2426H/J 24440 2441 2445H/J 2446H/J 2445H/J 2451H/J	15 1225-8/16 1245-16 1245-8/16 1225-8/16* 1225-8/16 1225-8/16 1225-8/16 1225-8/16 1225-8/16 1225-8/16 1245-8/16 1245-8/16 1245-8/16 1245-8/16 1245-8/16	Not Available D8/D16R375 Not Available D8/D16R2416 D8/D16R2416 Not Available Not Available D8/D16R2425 D8/D16R2425 D16R2440 D16R2441 D8/D16R2445 D8/D16R2445 D8/D16R2445 D8/D16R2450		
	2470 2482J 2485J	1225-8/16 1282-8/16 1282-8/16	Not Available D16R2482 D16R2482		
*C1225 adapter kit required. Note: This kit is			Note: This kit is		

*C1225 adapter kit required. Note: This kit is reusable with subsequent diaphragms.

LIMITED WARRANTY

Radian Audio Engineering, Inc. products, when sold domestically, are guaranteed for a period of five (5) years from the date of original purchase against malfunctions due to defects in workmanship. If such a malfunction occurs, the product will be repaired or replaced at our option, without charge, if delivered prepaid to the factory. Product will be returned prepaid via ground transport. This warranty does not extend to damage resulting from improper installation, misuse, neglect or abuse. The warranty does not apply to external finish or appearance. The warranty does not apply to burnt voice coils. In no event shall Radian Audio Engineering, Inc. be liable for incidental or consequential damages including, without limitation, injury to persons or property or loss of use.

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^{**}EIA Standard RS-426A through a 1 kHz, 24 dB/octave Linkwitz-Riley crossover

^{***}Measured on a horn with a Q of 6.3 averaged in the 2 kHz octave band