

The Radian Model 1282-16 replacement diaphragm converts the usable frequency response of the JBL® 2482 compression driver of 300 Hz to 6 kHz, to a full-range response of 500 Hz to 20 kHz.

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 high strength-to-weight ratio 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 diaphragm's 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® MODEL 2482 2" DRIVERS**
- ✓ **CONVERTS 2482 FROM MID-RANGE ONLY TO FULL-RANGE DRIVER**
- ✓ **INDESTRUCTIBLE MYLAR® SURROUND**
- ✓ **ALUMINUM ALLOY COMPRESSION DOME**
- ✓ **EDGEWOUND ALUMINUM VOICE COIL**

JBL® 2482 DRIVER REPLACEMENT DIAPHRAGM

SPECIFICATIONS

FREQUENCY RESPONSE 500 Hz – 20 kHz
 SOUND PRESSURE LEVEL* 129 dB continuous,
 132 dB peak at one meter
 MAXIMUM POWER HANDLING** 75 watts continuous, 150 watts peak
 SENSITIVITY*** 111 dB, one watt at one meter
 RECOMMENDED CROSSOVER 500 Hz, 18 dB/octave,
 1000 Hz, 12 dB/octave
 NOMINAL IMPEDANCE 8 or 16 ohms
 MINIMUM IMPEDANCE 6 or 12 ohms
 D.C. RESISTANCE 4.3 or 8.5 ohms ± 10%
 VOICE COIL DIAMETER 4.0" (100mm)
 VOICE COIL MATERIAL Edgewood copper-clad aluminum
 DIAPHRAGM MATERIAL 0.003" (0.08mm) heat-treated aluminum alloy
 DIAPHRAGM SUSPENSION Mylar®
 POLARITY Positive voltage at black terminal moves
 diaphragm toward phase plug
 DIMENSIONS 5.0", (127mm) diameter, 1.0" (25.4mm) deep
 WEIGHT 1.9 oz. (54 gm)

*Measured at rated MAX POWER HANDLING
 **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

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.

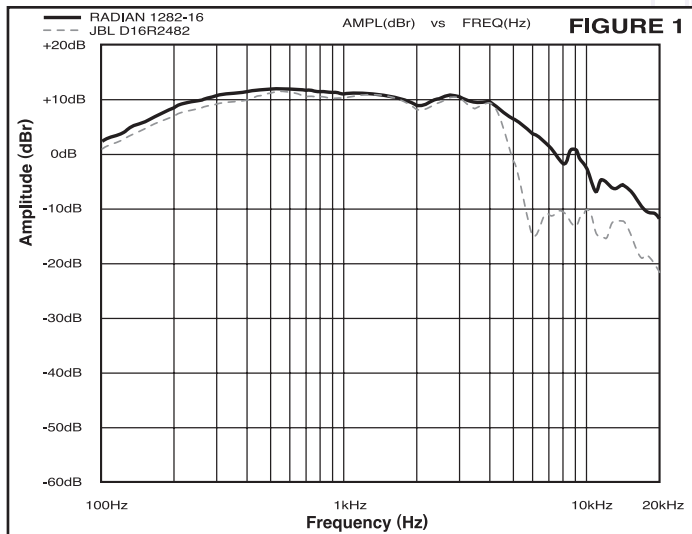


Figure 1 represents the Amplitude vs. Frequency Response of a JBL 2482 compression driver, with original diaphragm, compared to the same driver with a Radian 1282-16 and JBL D16R2482 replacement diaphragm as measured on a 2" (50.8mm) plane wave tube with a 2.83 Vrms input. The 2482, with a Radian diaphragm installed, exhibits 10 dB to 20 dB greater output above 5 kHz, allowing the Radian-equipped 2482 to operate as a high performance, full-range compression driver.

Diaphragm Cross-Reference Guide		
Driver Model	Radian Replacement	Original Diaphragm
2482J	1282-8/16	D16R2482
2485J	1282-8/16	D16R2482

JBL is a registered trademark of Harman International.
 Mylar is a registered trademark of Dupont.
 Specifications subject to change without notice.

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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