



SERVICE PROCEDURE	DATE EFFECTIVE	NUMBER
	August 30, 1982	
NARROW GAP TOP PLATES	DATE REVISED	PAGE
		1

Certain older model JBL speakers with Alnico magnet assemblies were manufactured with top plates having a narrower gap than presently used, and current cone/coil assemblies will not fit these units. All such units must be returned to the factory for modification in order to install a current cone kit. This paper is to provide a general guide for determining whether a unit will have a narrow gap.

The only sure way to determine whether a speaker has a narrow gap is to cut out the cone assembly and measure the gap with a gauge (see Gap Gauge Chart). However, there are certain things to look for that may indicate a narrow gap. The first sign is if the top plate has turned a gold color (due to age and oxidation). Many old JBL speakers have gold top plates, however, and most of them are reconable with current kits. These include LE8's, LE10's, LE14A's, LE14C's, LE15's, D120F's, 2215's, and most D208's, D216's, D280's, and D123's. Current cone/coil assemblies will fit these speakers.

Units most likely to have narrow gaps are D130's, D140's, D131's, D15S's, 150-4's, 130A's, and very old D208's, D216's, D280's, D123's, LE5-2's, and some very old 2205's and 2220's. When any of these units is observed to have a gold top plate, there is about a fifty-fifty chance it will have a narrow gap.

Other signs of a narrow gap: any speaker that has a two piece pot/magnet assembly made of rolled steel welded into a cylinder instead of a one piece cast iron assembly is very old and will have a narrow gap. Such speakers usually have a gold "James B. Lansing" signature style decal and a typed paper label instead of the newer metal foilcal. Another sign of old age is any speaker where the gasket is made of real cork, not the cork/latex rubber composition used currently. A speaker with a real cork gasket (especially D208's, D216's, and D280's) is to be suspect. On D130's and D140's the older models have large binding posts mounted directly on one of the frame rails, whereas the newer models have smaller binding posts (as used on our present hi-fi models) mounted on a seperate plate next to the pot assembly. The older models are much more likely to have narrow gap.

Older compression drivers may also be found to have narrow gap top plates and current diaphragms will not fit these units properly. These units must be returned to the factory for modification.

In conclusion, it is to be noted that there are no hard and fast rules as to which speakers will have narrow gaps. Happily, the number of these units is quite small; the vast majority of JBL speakers remain reconable as is, with current JBL kits.

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JBL

SERVICE PROCEDURE	DATE EFFECTIVE	NUMBER
	October 7, 1982	
GAP GAUGE USAGE GUIDE	DATE REVISED	PAGE
	January 16, 1984	1

<u>GAUGE SIZE</u>	<u>MODELS USED ON</u>
.025	075 (a11), 076, 077, 2402/H, 2403/H, 2405/H
.029	LE25 (a11), LE20 (a11), LE26, 401-132
.031	LE85, LE175, 033, 034, 044, 066, 2410, 2420, 2421, 2425H/J, 2460, 2461, 2470
.036	375, 376, 2440, 2441, 2445J
.040	LE5 (a11), 2105, 2105H
.043	375AB, 375FH, 2480, 2482
.044	D123, D208, D216, D280, 116A/H, 123A-1, 125A, 126A, 127A/H, 2110A/H, 2212
.048	K110, LE8 (a11), LE10A, 123A-3, 2108A/H, 2115A/H, 2120, 2121/H, 2213/H, 043109A/H
.053	122A, 112A/H, LE10H, LE111A/H
.057	E110, 128H, all low frequency transducers with 4-inch voice coils

FOR LONGEST GAUGE LIFE:

1. Handle gauges only by aluminum handle.
2. When not in use, keep gauge pin coated with either a light machine oil or commercially available rust inhibitor.