

Emphaser EM-MBF4: Practical original replacement for Mercedes W124

PRICE TIP
Mercedes-loudspeaker
CAR & HiFi 4/2026

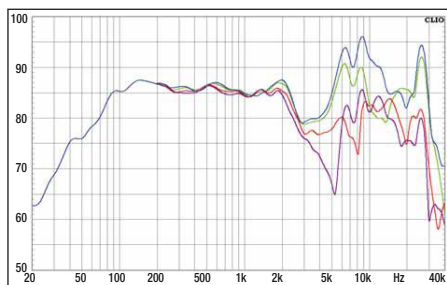
Youngtimer-Upgrade

► The aftermarket industry is discovering popular youngtimers, and what comes to mind more than a middle-aged Benz? For the Mercedes W124, Emphaser is now releasing the EM-MBF4 that fits perfectly.

It is still part of the street scene in large numbers, and it was the first model series to be given the name E-Class. We are talking about the living legend W124, the big Mercedes of the 80s and 90s. At that time, Mercedes installed full-range speakers in the dashboard, which were not bad at all, but of course are all getting on in years. The speakers have a rather exotic diameter of 12 centimeters, so no standard retrofit speakers will fit. With the M-MBF4 there is now a solution at the ACR dealers, and it has turned out really well. The MBF4 is a very cleanly made 12-cm unit, and it even comes as a two-way speaker. For this purpose, the coax has been given a tweeter in a tiny 13-mm format, which is acoustically located very close to the woofer voice coil. This is not a cheap solution, but a real woven fabric dome protected from low frequencies by a small, internal capacitor.

Measurements and Sound

The MBF4 may not run as straight as a die, but it doesn't make any major mistakes either. The frequency range around 3 kHz is attenuated. This doesn't have to sound bad, but it gets too loud when the tweeter slowly kicks in, but the bass-midrange driver is not yet finished. In any case, everything is fine off-axis, just like in the listening test. Here the MBF4 is anything but boring



At first glance the EM-MBF4 looks a bit ragged. In practice though it works out fine because the total power response from all angles is acceptable

and really puts you in a good mood. It even gives a shot of bass, and above all it feels that the Emphaser delivers twice as much volume as the original – great!

Summary

Many Benz fans will have been waiting for the EM-MBF4. It fits snugly into the clip attachment and delivers a very nice sound boost. A great thing for the W124.

Emphaser EM-MBF4

Price	about 120 Euro
Distributor	ACR, CH-5330 Zurzach
Hotline	info@acr.eu
Internet	www.emphaser.com

Summary

► Sound quality	55 %	1,3	■■■■■	■
Bass	11 %	1,5	■■■■■	■
Neutrality	11 %	1,5	■■■■■	■
Transparency	11 %	1,0	■■■■■	■
Soundstaging	11 %	1,0	■■■■■	■
Dynamics	11 %	1,5	■■■■■	■
► Lab	30 %	1,5	■■■■■	■
Frequency response	10 %	1,5	■■■■■	■
max. volume	10 %	1,5	■■■■■	■
Distortion	10 %	1,5	■■■■■	■
► Practice	15 %	1,3	■■■■■	■
Installation	5 %	1,0	■■■■■	■
Crossover	5 %	2,0	■■■■■	■
Workmanship	5 %	1,0	■■■■■	■

Technical Data

Nominal diameter W	120 mm
Mounting depth with ring W	49 mm
Manget diameter W	70 mm
Tweeter dome diameter	13 mm
Tweeter housing diameter	–
Slope W/T	–/–6 dB
Tweeter protection	–
Tweeter volume adjustment	–
Fits in here *	W124
other	–
Nominal impedance	4 ohms
DC resistance Rdc	3,25 ohms
Coil inductivity Le	0,18 mH
Coil diameter	25 mm
Cone surface Sd	71 cm ²
Resonance frequency Fs	73 Hz
Mechanical quality Qms	3,97
Electrical quality Qes	0,74
Total quality Qts	0,63
Equivalent volume Vas	5,2 l
Moving mass Mms	6,4 g
Rms	0,74 kg/s
Cms	0,74 mm/N
B*1	3,60 Tm
Pressure 2 V, 1 m	86 dB
Power handling	20 – 80 W

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Price/performance: excellent

"A great thing for the W124."