EM·PHASER

EMPHASER EM-FTF2 • TEST REPORT CAR_&HIFI 2/2022



• Motorhomes are all the rage so there is naturally also a need here to improve the sound. And so Emphaser has introduced the EM-FTF2, a new speaker set for the Fiat Ducato.



The plastic basket is provided with a flange that is specially customized for the Ducato door

EM-FTF2

As before, the Fiat Ducato is the most common platform on the used motorhome market. Here there is a widespread desire to upgrade the sound, for who wants to go on vacation if that is poor? The quickest and simplest method to do this is to replace the speakers — particularly with the Emphaser EM-FTF2, as this is connected using plug and play. Simply unplug the original vehicle speakers and put the Emphasers in — done. Of course the vehicle kit must also be such that the speakers are a perfect fit. Due to the exposed fitting of the woofers on the door panel and the three-point mount, normal component systems cannot actually be readily fitted. That is why Emphaser has given the FTF2 an injection molded basket designed specifically for the Ducato. That works in all Ducato III from 2006 onwards, and also in the identically constructed Jumper and Boxer from France. In the case of the tweeter Emphaser has taken pains to



Both chassis are prepared with vehicle connectors to the plug and play connection



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make it as compact as possible so that

it can be fitted effortlessly in the origi-

nal position. To achieve this a small 19-

mm woven fabric dome is used. Thanks

to the resonance chamber, which gives

it a helping hand at the lower end of the frequency response, it is more than

The crossover of the FTF2 is split for

both drivers. The high frequency

branch sits in the connection cable of

the tweeter, while the low frequency

branch is neatly fitted to the basket of the 16 cm speaker. Here we find a

clever circuit with a 12 dB low pass

filter, that nevertheless has a damped

bypass for higher frequencies. In ad-

dition there is a blocking circuit that works like a passive equalizer and

pulls down the frequency response of

the mid/woofer around 1 kHz by ap-

prox. 6 dB. That seemed strange when

we first saw that in our measurements.

but there is a reason for it: the FTF2

is designed specifically for the Ducato

equal to a 25-mm dome.

Measurements and Sound

The low pass crossover is conveniently fitted directly to the woofer, a blocking circuit responding to the vehicle acoustics

and is therefore able as it should to

take account of the vehicle frequency

response. The blocking circuit is used

to compensate for a frequency hump

of the Ducato acoustics so that the frequency response curve in the vehicle

is flat. For our sound check in the listening room we bypassed this block-

ing circuit. The way the FTF2 plays is

then lively and detail-rich. The alumi-

num 16 cm speaker delivers a punch

in the lows, and also succeeds in the

midrange with the necessary corners

and edges. The new 19 mm tweeter is a stunner, delivering beautiful, silky

details, though it can also let acoustic

sparks fly when required. This is ac-

companied by a spatiality that is pleas-

ing, so everything is as it should be.



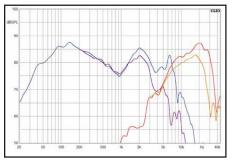
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Emphaser EM-FTF2

Price		abo	ut 250 Euro		
Distributor ACR, CH-5330 Zurzach			330 Zurzach		
Hotline			info@acr.eu		
Internet			www.acr.eu		
Summary					
Sound quality	55 %	1,2			
Bass	11 %	1,5			
Neutrality	11 %	1,5			
Transparency	11 %	1,0			
Soundstaging	11 %	1,0			
Dynamics	11 %	1,0			
Lab	30 %	1,5			
Frequency response	10 %	1,5			
max. volume	10 %	1,5			
Distortion	10 %	1,5			
Practice	15 %	1,2			
Installation	5 %	1,0			
Crossover	5 %	1,5			
Workmanship	5 %	1,0			
Technical Data					
Diameter TT			165 mm		
Mounting depth incl. ring			47 mm		
Magnet diameter			86 mm		
Tweeter dome diameter			19 mm		
Tweeter housing diameter			33 mm		
Slope			–/12 dB		

Summary

With the EM-FTF2 the Emphaser has come up with a highly rewarding speaker system for Ducato & Co. that really does the job with plug & play installation and a punchy sound.



The 19 mm tweeter is outstanding up to 30 kHz. A blocking circuit in the woofer provides a 6 dB attenuation around 1 kHz that corrects for conditions in the Ducato



A 12 dB high pass filter and level resistor form the tweeter crossover

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Tweeter housing diameter	33 mm
Slope	–/12 dB
Tweeter protection	_
Tweeter volume adjustment	_
Fits in here *	Ducato III + related
other	_

4 ohms
4,31 ohms
0,10 mH
25 mm
131 cm ²
55 Hz
6,33
0,95
0,82
14,3
13,9 g
0,76 kg/s
0,60 mm/N
4,68 Tm
86 dB
20 – 80 W

Emphaser EM-FTF2



"First-class upgrade for the Ducato."