

## Eton UG Fiat FD16: Upgrade for Ducato III and relatives



# Speakers for Fiat Ducato

► With the UG Fiat FD16 Eton has brought out a tailor-made sound upgrade for the doors of motorhomes like the Ducato that we take a closer look at here.

Under the ETON "Upgrade" sub-brand there is a wide range of aftermarket vehicle-specific speakers from Eton, including those for motorhomes. Thus there are door speakers and bass solutions from the VW Bus to the Sprinter. Our UG FD16 fits in the Fiat Ducato

III, Citroen Jumper 2, Peugeot Boxer 2 as well as in various other vans from the corporation. The system is a new development. However for the woofers the developers have made use of the recently introduced universal system PRA. At any rate the technolo-

gy is based on the PRA cone with the striking sickle-shaped embossing on the PRA cone. Otherwise the cone is made of paper with glass fiber filler. It is driven by a 25 millimeter voice coil and guided by a pot spider. Naturally, the basket of glass fiber reinforced plastic is specially made for the Ducato door, and there is a socket for the vehicle wiring to take the original connector. The same applies for the tweeter, a 25

The basket of glass fiber reinforced polyamide is provided with the necessary mounting points



millimeter woven fabric dome in the compact housing. The tweeter comes with its crossover in the connecting cable. For a cable crossover this is in fact quite elaborate. Not only is there a full-featured 12 dB filter with a coil and capacitor inside, it even has a level control to suit the listening taste of the camper driver.

### Measurements and Sound

The woofer of the UG FD16 has an impedance of 3 ohms, which tickles a little extra level out of the original system even without an aftermarket power amp. At 2 volts and 1 meter we measured a sound pressure level of 89 dB, which is above average. The frequency response is not perfect, but this is due to the cone resonance characteristics of the cone above 2 kHz, while the set is well-behaved enough without overly detrimental effects on the sound. The tweeter is well-behaved up to over 20 kHz, so everything is ok.

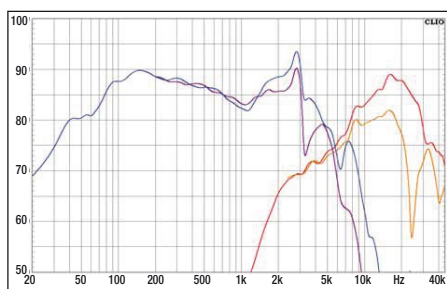


Concealed under the rubber sleeve there is even a turned pole plate

Distortion is measurable, but it is nothing you need to worry about. Sonically the system is quite crisply tuned; it never sounds boring and is enjoyable to listen to. As for the woven dome, there is enough resolution there and the rather restrained level of the tweeter makes for pleasant listening, even for long periods.

### Summary

The Eton UG FD16 fulfills all the expectations of a sound upgrade: It is child's play to install and connect up in the vehicle, and it brings a distinct improvement in the sound to Ducato & Co.



**The UG FD16 does not run perfectly flat, the cone showing a resonance at 2.8 kHz. The tweeter runs ok up to over 20 kHz.**



Reconnecting the cable on the crossover activates the resistor for lower output of the tweeter

**BEST PRODUCT**  
Fiat-Loudspeaker  
**CAR&HIFI** 2/2024

### Eton UG Fiat FD 16

Price about 240 Euro  
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Hotline info@eton-caraudio.eu  
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### Summary

Sound quality	55 %	1,2	■■■■■
Bass	11 %	1,0	■■■■■
Neutrality	11 %	1,5	■■■■■
Transparency	11 %	1,5	■■■■■
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	■■■■■

Workmanship	15 %	1,2	■■■■■
Installation	5 %	1,0	■■■■■
Crossover	5 %	1,5	■■■■■
Workmanship	5 %	1,0	■■■■■

### Technical Data

Basket diameter M/W	165 mm
Mounting depth with ring	45 mm
Manget diameter	73 mm
Tweeter dome diameter	25 mm
Tweeter housing diameter	40 mm
Slope W/T	-12 dB
Tweeter protection	-
Tweeter volume adjustment	0, -3 dB
Fits in here *	Ducato 3 other

Nominal impedance	3 ohms
DC resistance Rdc	2,79 ohms
Coil inductivity Le	0,56 mH
Coil diameter	25 mm
Cone surface Sd	137 cm <sup>2</sup>
Resonance frequency Fs	60 Hz
Mechanical quality Qms	4,15
Electrical quality Qes	0,58
Total quality Qts	0,51
Equivalent volume Vas	12,2 l
Moving mass Mms	15,0 g
Rms	1,37 kg/s
Cms	0,47 mm/N
B*1	5,21 Tm
Pressure 2 V, 1 m	89 dB
Power handling	30 - 100 W

### Eton Graphit 16/80/28

**Fiat-Loudspeakers 1,3**

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Price/performance: very good

"Easy sound upgrade for Ducato & Co."